



Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Mar 2, 2017 – 11:29 am GMT

PDB ID : 3J26
EMDB ID: : EMD-5495
Title : The 3.5 Å resolution structure of the Sputnik virophage by cryo-EM
Authors : Zhang, X.Z.
Deposited on : 2012-09-18
Resolution : 3.50 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.

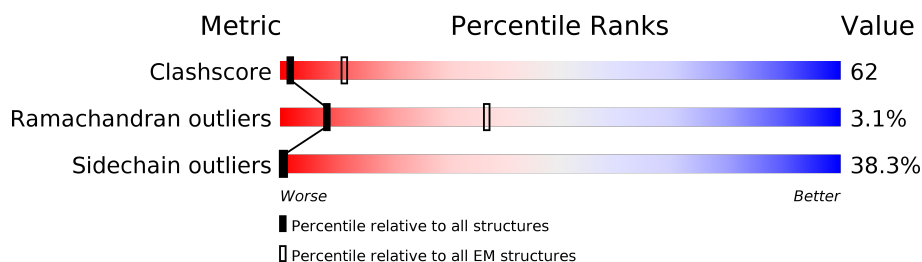
MolProbity : 4.02b-467
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : recalc29047

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 3.50 Å.

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



Metric	Whole archive (#Entries)	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	508	36% 39% 23% .
1	B	508	32% 41% 25% .
1	C	508	30% 43% 27% .
1	D	508	34% 40% 25% .
1	E	508	34% 44% 21% .
1	F	508	36% 41% 22% .
1	G	508	37% 40% 21% .
1	H	508	34% 43% 22% .
1	I	508	32% 40% 27% .

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Mol	Chain	Length	Quality of chain
1	J	508	<div><div></div><div>33%41%24%</div><div></div></div>
1	K	508	<div><div></div><div>37%40%23%</div><div></div></div>
1	L	508	<div><div></div><div>35%41%23%</div><div></div></div>
1	M	508	<div><div></div><div>34%42%23%</div><div></div></div>
2	N	378	<div><div></div><div>26%42%25%</div><div></div></div>

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 54479 atoms, of which 0 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 capsid protein V20.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		
1	B	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		
1	C	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		
1	D	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		
1	E	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		
1	F	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		
1	G	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		
1	H	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		
1	I	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		
1	J	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		
1	K	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		
1	L	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		
1	M	508	Total	C	N	O	S	0	0
			3968	2516	672	769	11		

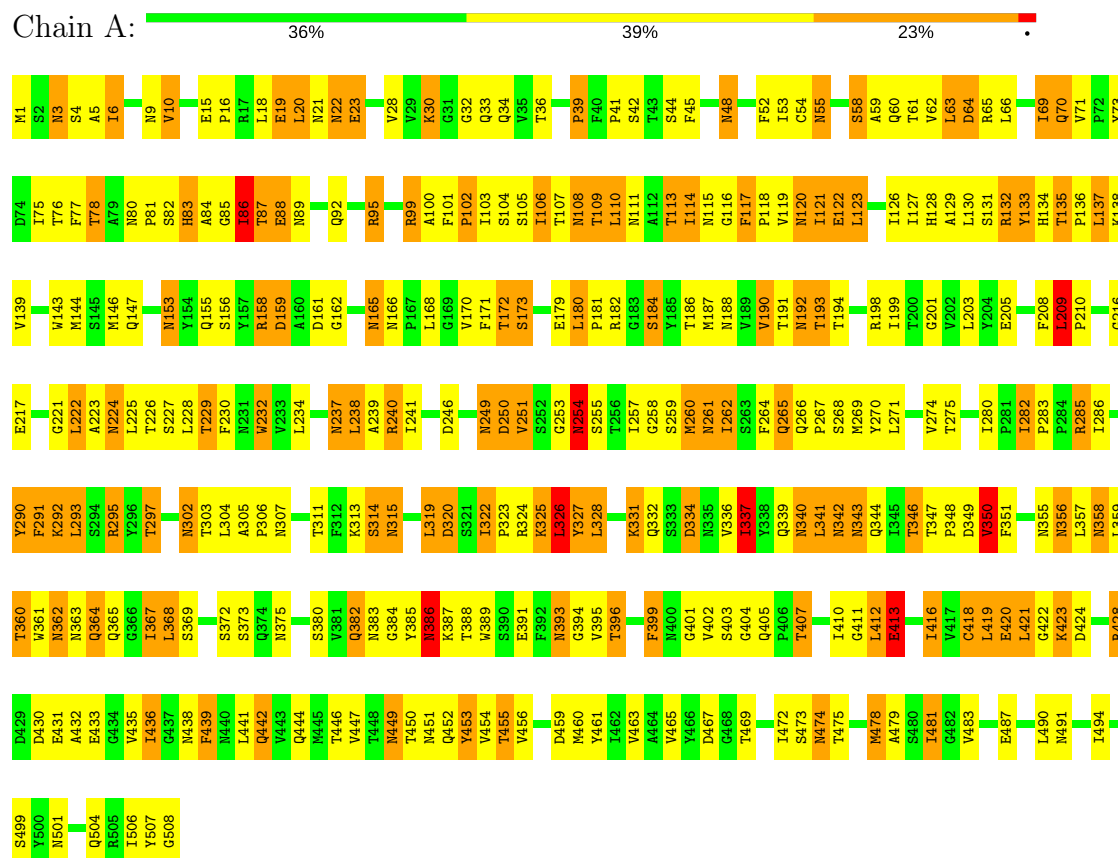
- Molecule 2 is a protein called Minor virion protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	N	362	Total	C	N	O	S	0	0
			2895	1889	451	549	6		

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.

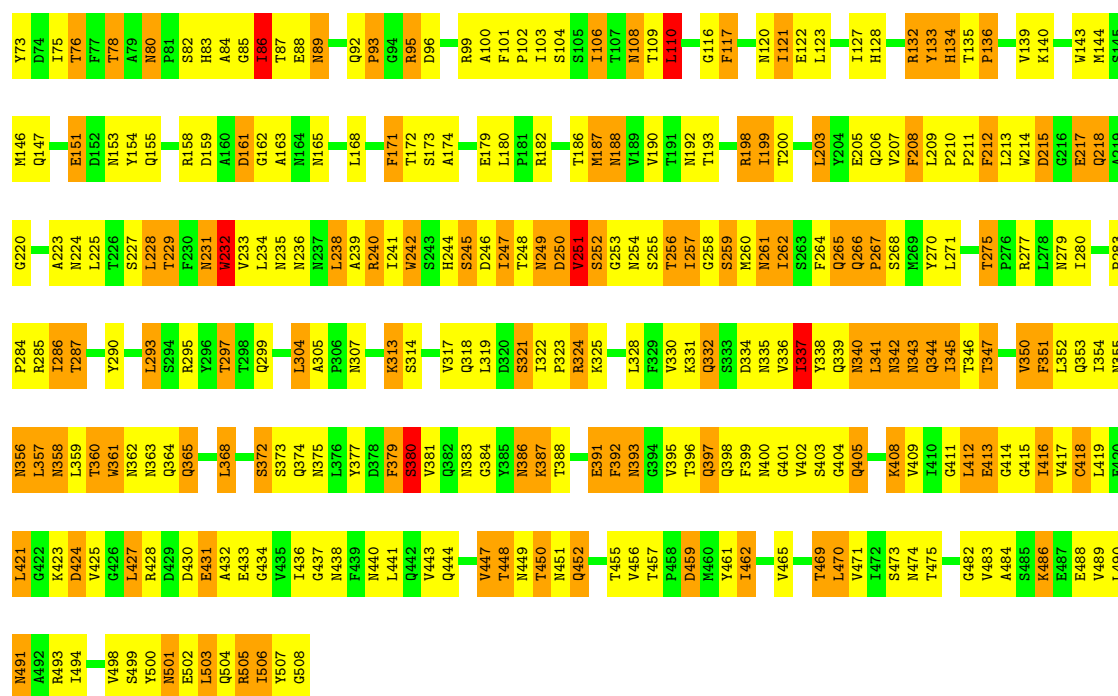
- Molecule 1: capsid protein V20



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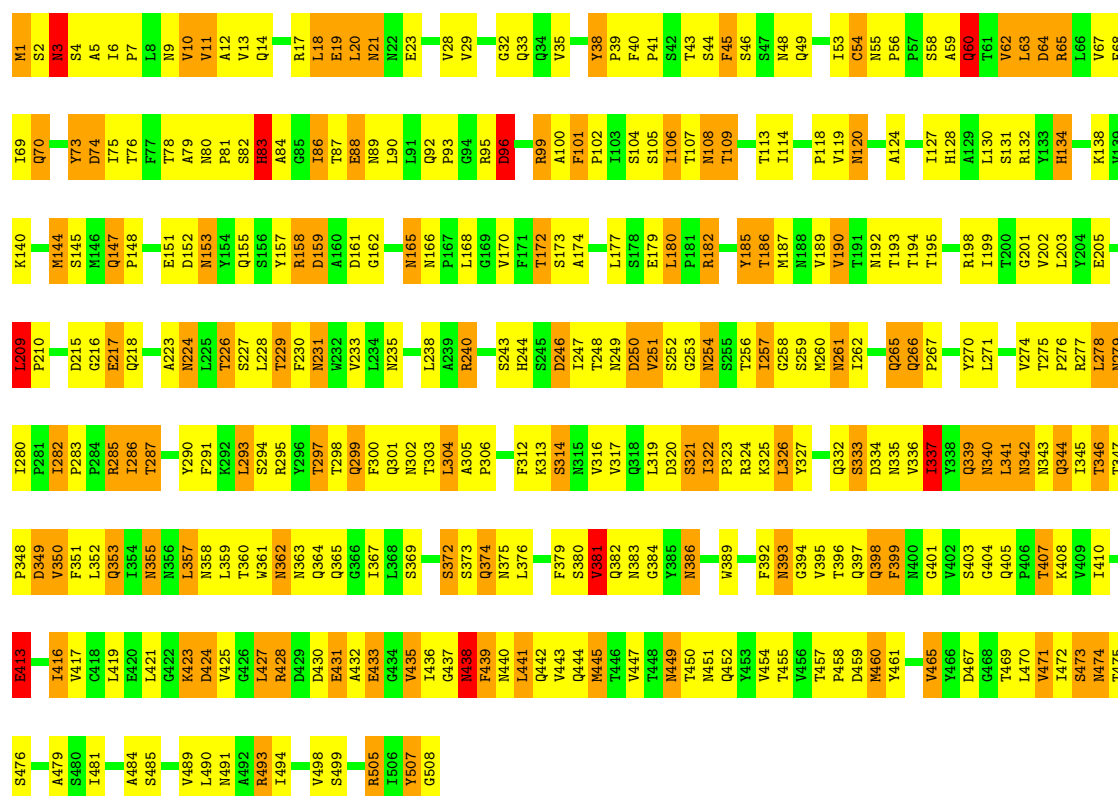




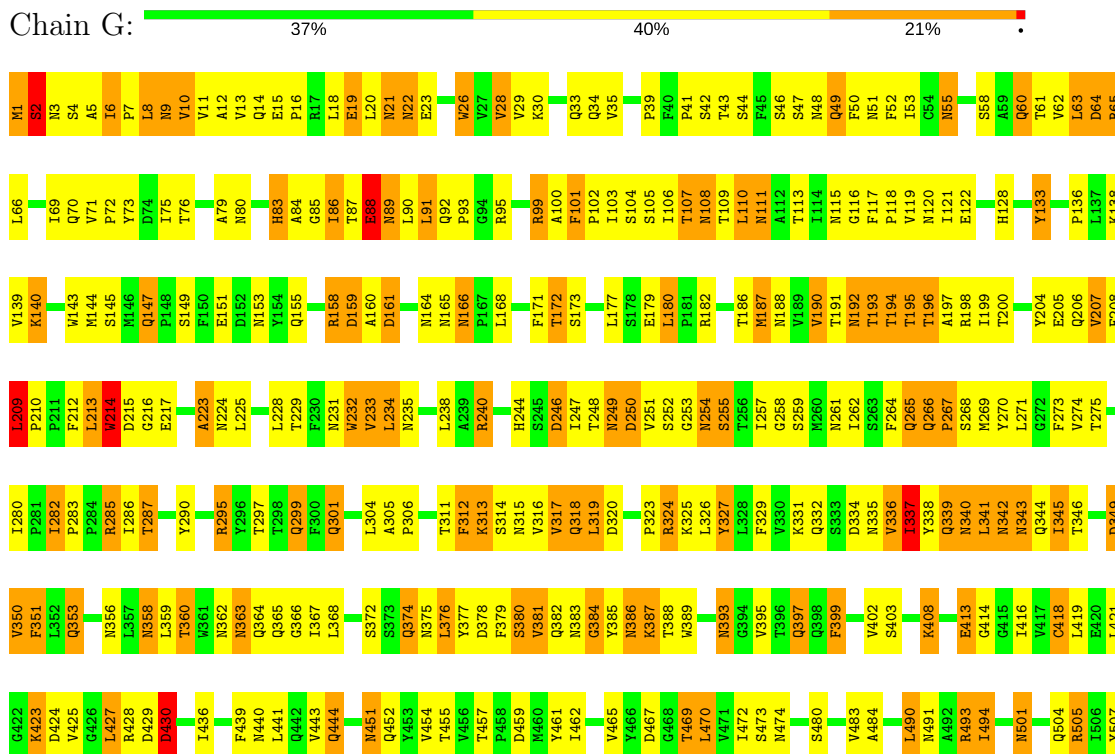


• Molecule 1: capsid protein V20

Chain E: 34% 44% 21%

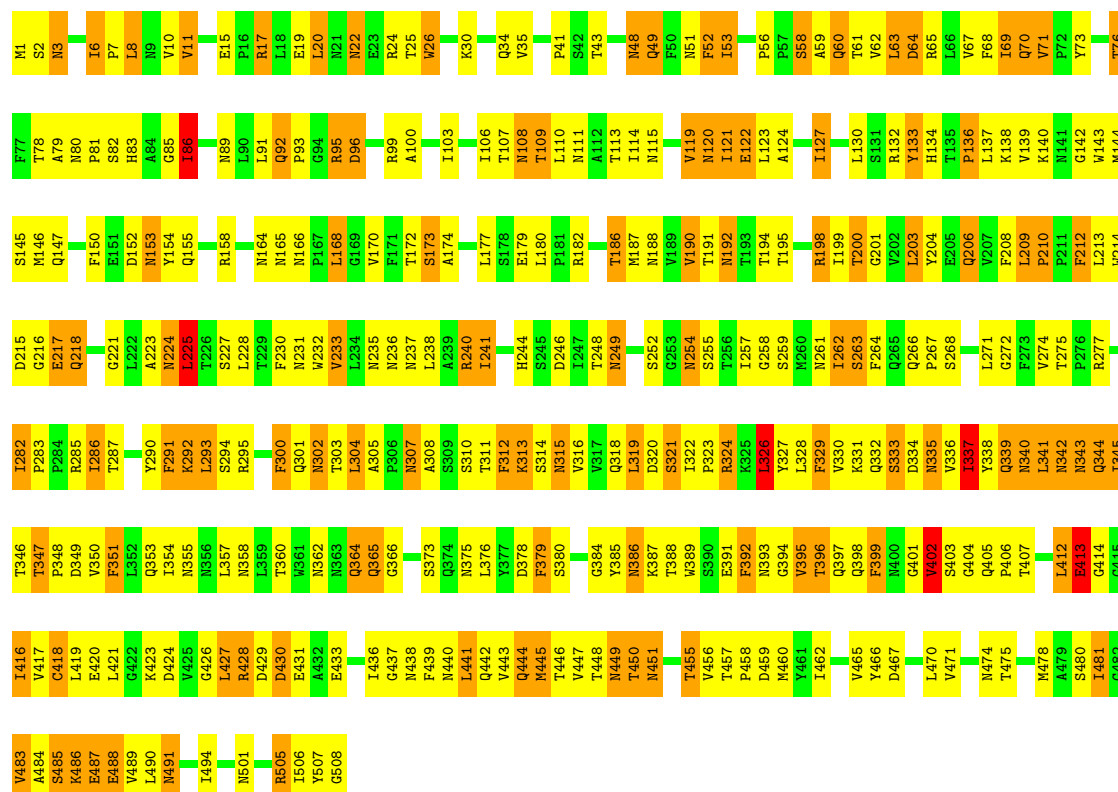


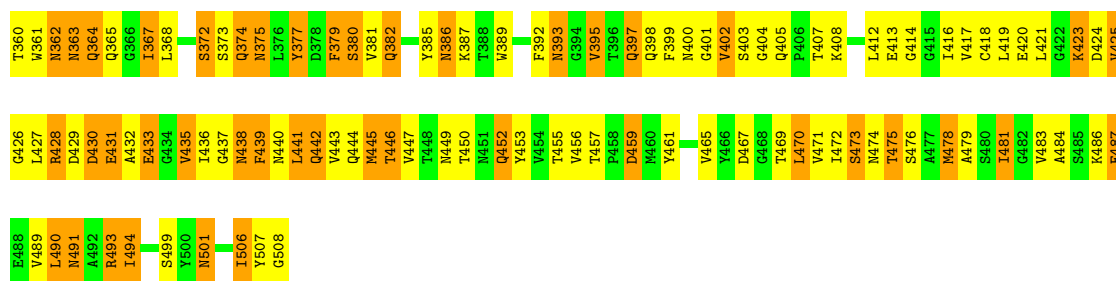
• Molecule 1: capsid protein V20



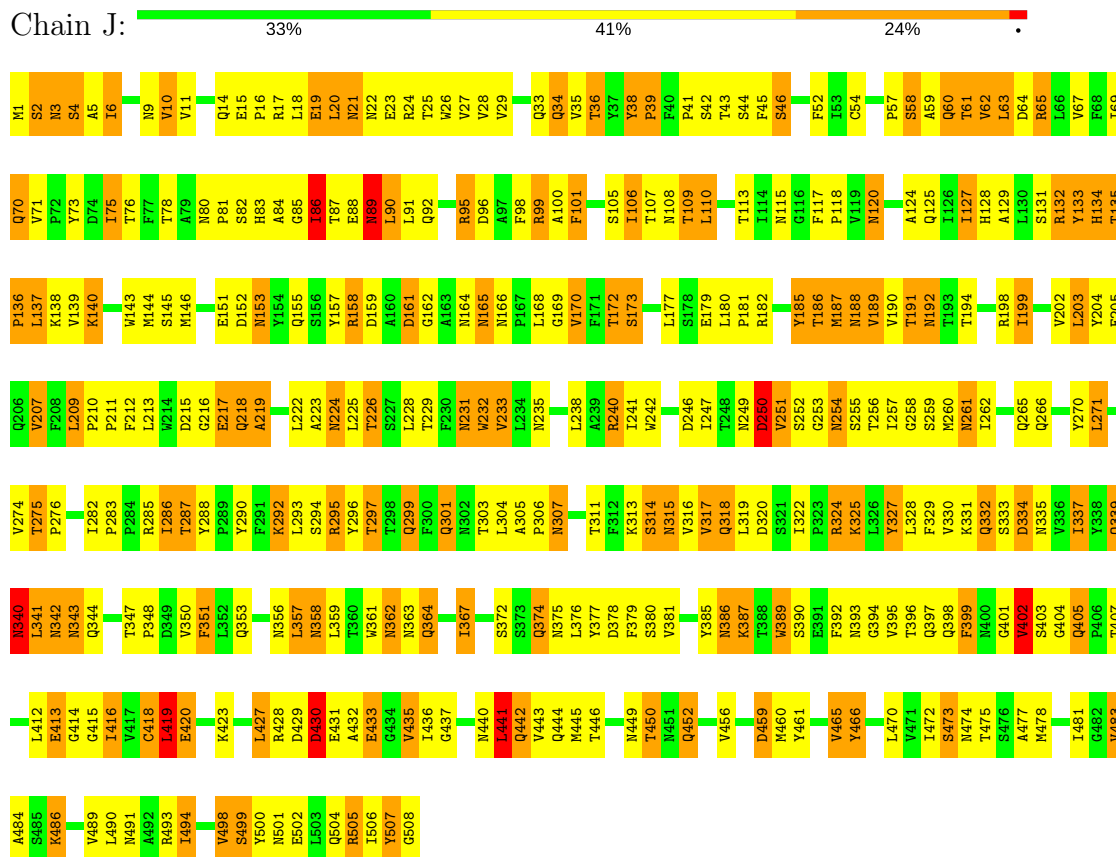
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- Molecule 1: capsid protein V20

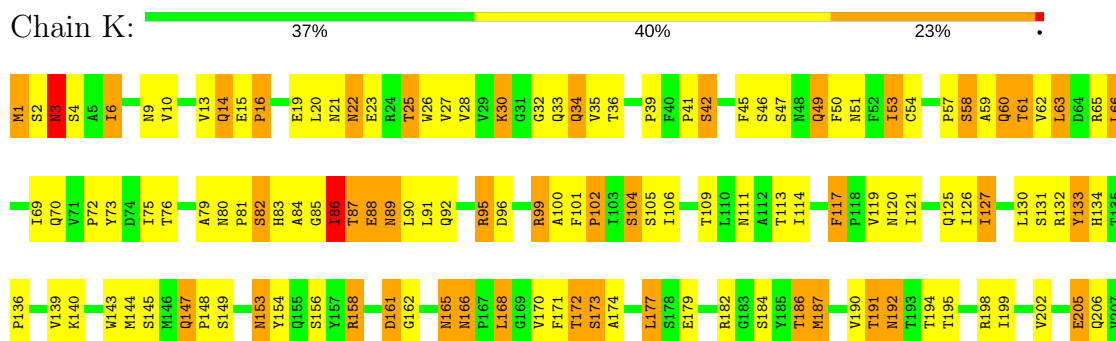
Chain H:  34% 43% 22%

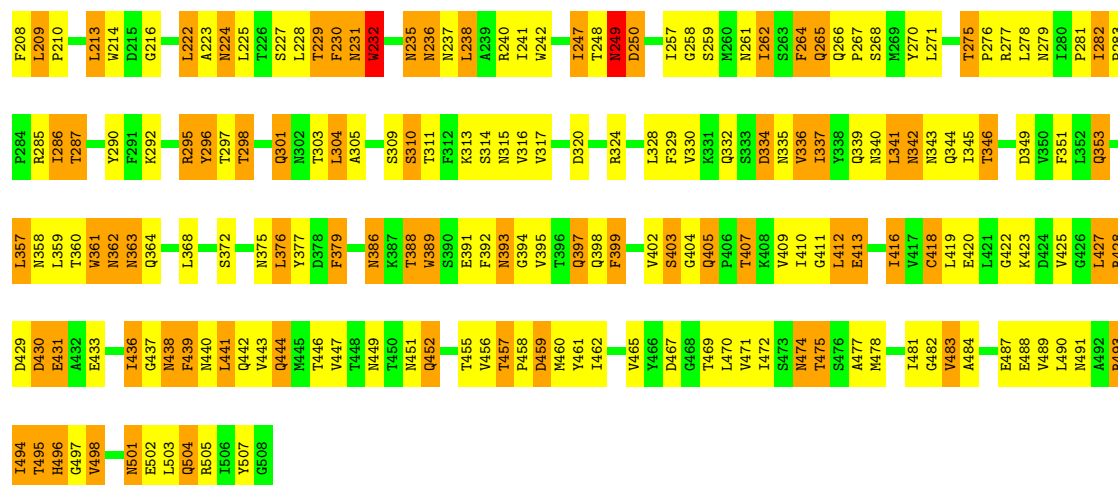


• Molecule 1: capsid protein V20

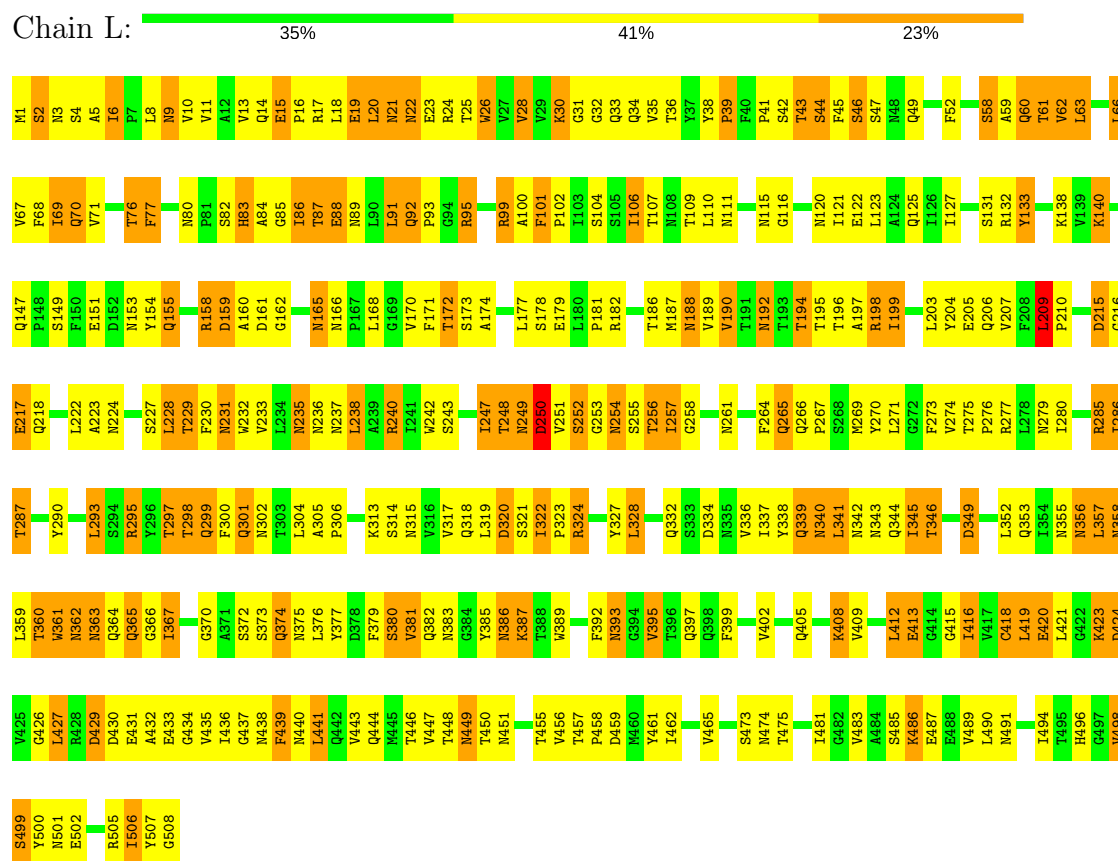


• Molecule 1: capsid protein V20

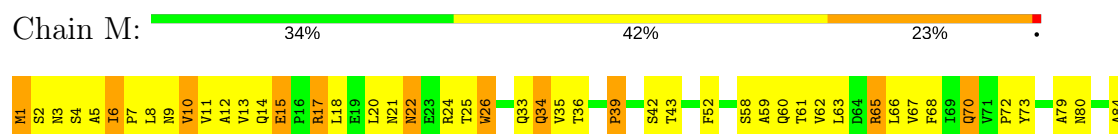


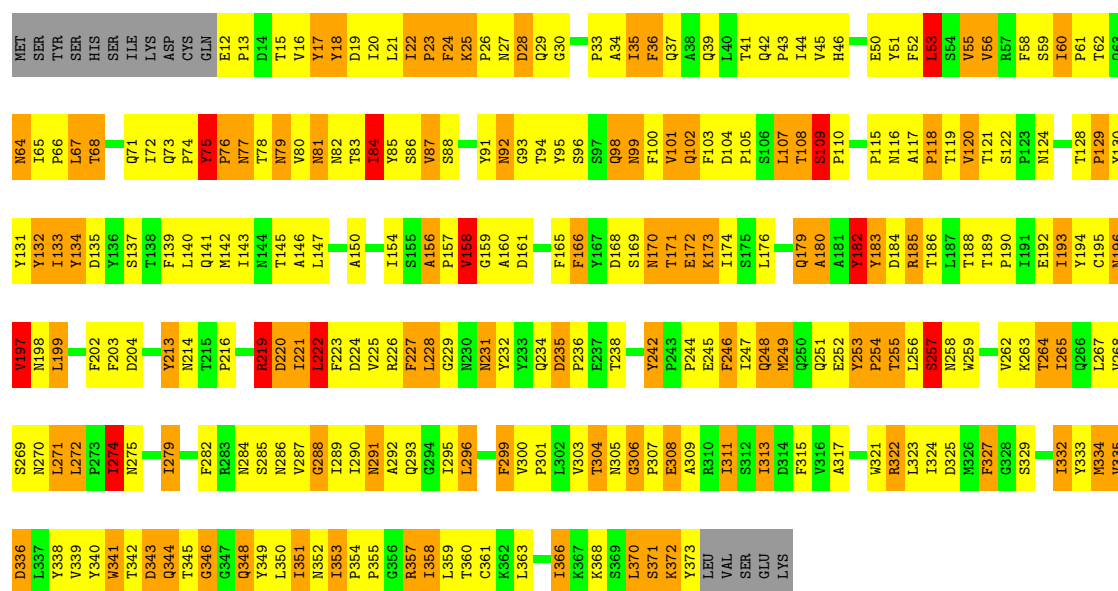


• Molecule 1: capsid protein V20



• Molecule 1: capsid protein V20





4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	12000	Depositor
Resolution determination method	FSC at 0.143 cut-off	Depositor
CTF correction method	each particle	Depositor
Microscope	FEI Titan Krios	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	22	Depositor
Minimum defocus (nm)	1100	Depositor
Maximum defocus (nm)	2400	Depositor
Magnification	59000	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	0.57	2/4060 (0.0%)	0.77	3/5551 (0.1%)
1	B	0.57	2/4060 (0.0%)	0.75	5/5551 (0.1%)
1	C	0.57	1/4060 (0.0%)	0.78	2/5551 (0.0%)
1	D	0.56	1/4060 (0.0%)	0.73	1/5551 (0.0%)
1	E	0.58	2/4060 (0.0%)	0.76	3/5551 (0.1%)
1	F	0.57	1/4060 (0.0%)	0.73	3/5551 (0.1%)
1	G	0.57	2/4060 (0.0%)	0.74	3/5551 (0.1%)
1	H	0.59	1/4060 (0.0%)	0.76	5/5551 (0.1%)
1	I	0.61	3/4060 (0.1%)	0.77	5/5551 (0.1%)
1	J	0.60	1/4060 (0.0%)	0.78	5/5551 (0.1%)
1	K	0.56	1/4060 (0.0%)	0.73	1/5551 (0.0%)
1	L	0.57	1/4060 (0.0%)	0.74	3/5551 (0.1%)
1	M	0.56	2/4060 (0.0%)	0.80	7/5551 (0.1%)
2	N	0.58	1/2986 (0.0%)	0.77	3/4103 (0.1%)
All	All	0.57	21/55766 (0.0%)	0.76	49/76266 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	3
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
1	L	0	1
1	M	0	1
All	All	0	10

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	117	PHE	CG-CD2	8.70	1.51	1.38
1	E	473	SER	CB-OG	8.12	1.52	1.42
1	I	117	PHE	CE1-CZ	8.06	1.52	1.37
2	N	341	TRP	CD2-CE2	5.93	1.48	1.41
1	M	361	TRP	CD2-CE2	5.72	1.48	1.41
1	C	232	TRP	CD2-CE2	5.31	1.47	1.41
1	L	242	TRP	CD2-CE2	5.30	1.47	1.41
1	M	26	TRP	CD2-CE2	5.29	1.47	1.41
1	A	389	TRP	CD2-CE2	5.29	1.47	1.41
1	K	232	TRP	CD2-CE2	5.29	1.47	1.41
1	I	214	TRP	CD2-CE2	5.28	1.47	1.41
1	B	361	TRP	CD2-CE2	5.28	1.47	1.41
1	B	232	TRP	CD2-CE2	5.25	1.47	1.41
1	J	507	TYR	CG-CD1	5.22	1.46	1.39
1	F	143	TRP	CD2-CE2	5.21	1.47	1.41
1	D	232	TRP	CD2-CE2	5.20	1.47	1.41
1	A	232	TRP	CD2-CE2	5.17	1.47	1.41
1	G	26	TRP	CD2-CE2	5.16	1.47	1.41
1	E	389	TRP	CD2-CE2	5.11	1.47	1.41
1	H	26	TRP	CD2-CE2	5.11	1.47	1.41
1	G	232	TRP	CD2-CE2	5.08	1.47	1.41

All (49) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	302	ASN	N-CA-CB	14.64	136.95	110.60
1	C	506	ILE	N-CA-CB	-9.54	88.85	110.80
1	M	301	GLN	N-CA-C	-8.64	87.68	111.00
1	A	326	LEU	CA-CB-CG	7.07	131.57	115.30
1	L	209	LEU	CA-CB-CG	7.03	131.47	115.30
1	H	326	LEU	CA-CB-CG	6.80	130.94	115.30
1	M	326	LEU	CA-CB-CG	6.77	130.88	115.30
1	J	419	LEU	CA-CB-CG	6.76	130.85	115.30
1	M	301	GLN	CB-CA-C	-6.72	96.95	110.40
1	A	209	LEU	CA-CB-CG	6.63	130.54	115.30
1	D	110	LEU	CA-CB-CG	6.27	129.72	115.30
1	I	117	PHE	CB-CG-CD1	-6.22	116.44	120.80
1	J	89	ASN	N-CA-C	-6.21	94.22	111.00
2	N	253	TYR	C-N-CD	-6.17	107.03	120.60
1	B	210	PRO	C-N-CD	-6.14	107.08	120.60
1	B	441	LEU	CA-CB-CG	5.93	128.93	115.30
1	I	209	LEU	CA-CB-CG	5.91	128.90	115.30
1	I	319	LEU	CA-CB-CG	5.78	128.60	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	63	LEU	CA-CB-CG	5.74	128.50	115.30
1	F	381	VAL	N-CA-C	-5.69	95.63	111.00
1	F	441	LEU	CA-CB-CG	5.68	128.37	115.30
1	L	238	LEU	CA-CB-CG	5.63	128.25	115.30
2	N	53	LEU	CA-CB-CG	5.63	128.24	115.30
1	H	225	LEU	CA-CB-CG	5.61	128.21	115.30
1	H	20	LEU	CA-CB-CG	5.55	128.06	115.30
1	M	441	LEU	CA-CB-CG	5.52	128.00	115.30
1	J	89	ASN	N-CA-CB	5.51	120.52	110.60
1	K	66	LEU	CA-CB-CG	5.45	127.84	115.30
1	B	180	LEU	CA-CB-CG	5.43	127.80	115.30
1	E	96	ASP	N-CA-C	5.41	125.61	111.00
1	J	441	LEU	CA-CB-CG	5.36	127.63	115.30
1	M	506	ILE	N-CA-C	-5.27	96.76	111.00
1	H	334	ASP	CB-CG-OD2	5.27	123.05	118.30
1	I	334	ASP	CB-CG-OD2	5.26	123.04	118.30
1	F	334	ASP	CB-CG-OD2	5.25	123.03	118.30
1	G	223	ALA	N-CA-C	-5.25	96.84	111.00
1	M	334	ASP	CB-CG-OD2	5.24	123.02	118.30
1	E	381	VAL	N-CA-C	5.21	125.08	111.00
1	I	180	LEU	CA-CB-CG	5.21	127.29	115.30
1	B	250	ASP	CB-CG-OD2	5.21	122.99	118.30
1	G	334	ASP	CB-CG-OD2	5.20	122.98	118.30
1	E	334	ASP	CB-CG-OD2	5.20	122.98	118.30
1	C	334	ASP	CB-CG-OD2	5.19	122.97	118.30
1	A	334	ASP	CB-CG-OD2	5.18	122.96	118.30
1	B	130	LEU	CA-CB-CG	5.15	127.14	115.30
1	J	334	ASP	CB-CG-OD2	5.13	122.91	118.30
1	G	490	LEU	CA-CB-CG	5.12	127.09	115.30
2	N	222	LEU	CA-CB-CG	5.08	126.98	115.30
1	H	119	VAL	CB-CA-C	-5.03	101.84	111.40

There are no chirality outliers.

All (10) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	340	ASN	Peptide
1	B	132	ARG	Peptide
1	B	332	GLN	Peptide
1	B	380	SER	Peptide
1	C	341	LEU	Peptide
1	D	380	SER	Peptide

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Mol	Chain	Res	Type	Group
1	E	83	HIS	Peptide
1	F	380	SER	Peptide
1	L	58	SER	Peptide
1	M	250	ASP	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3968	0	3871	408	0
1	B	3968	0	3871	627	0
1	C	3968	0	3871	631	0
1	D	3968	0	3871	619	0
1	E	3968	0	3871	509	0
1	F	3968	0	3871	429	0
1	G	3968	0	3871	497	0
1	H	3968	0	3871	523	0
1	I	3968	0	3871	521	0
1	J	3968	0	3871	525	0
1	K	3968	0	3871	401	0
1	L	3968	0	3871	492	0
1	M	3968	0	3871	524	0
2	N	2895	0	2810	508	0
All	All	54479	0	53133	6718	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 62.

All (6718) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:396:THR:CA	1:B:410:ILE:HD11	1.25	1.67
2:N:173:LYS:HD3	2:N:254:PRO:CG	1.22	1.62
1:C:376:LEU:HA	1:C:379:PHE:CE2	1.34	1.61
2:N:173:LYS:CD	2:N:254:PRO:HG3	1.24	1.60
2:N:186:THR:CG2	2:N:226:ARG:HD3	1.27	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:208:PHE:CD1	1:M:214:TRP:CD1	1.85	1.59
2:N:186:THR:HG22	2:N:226:ARG:CD	1.34	1.55
2:N:256:LEU:HD22	2:N:307:PRO:CG	1.11	1.55
2:N:227:PHE:CZ	2:N:232:TYR:HE2	1.21	1.53
1:B:396:THR:HB	1:B:410:ILE:CG1	1.36	1.51
1:A:53:ILE:HD11	1:E:41:PRO:CB	1.39	1.50
2:N:36:PHE:CZ	2:N:335:VAL:HG11	1.47	1.48
2:N:36:PHE:CZ	2:N:335:VAL:CG1	1.93	1.47
1:J:498:VAL:CG2	1:J:499:SER:HB2	1.42	1.47
1:C:237:ASN:ND2	1:C:344:GLN:HE22	1.13	1.46
1:J:87:THR:CG2	1:J:88:GLU:HG3	1.46	1.45
1:E:258:GLY:HA2	1:E:341:LEU:CD1	1.44	1.45
1:J:341:LEU:HD13	1:J:342:ASN:N	1.20	1.45
1:C:84:ALA:CB	1:C:86:ILE:HB	1.45	1.45
2:N:227:PHE:CE1	2:N:232:TYR:HE2	1.33	1.45
1:D:343:ASN:HD22	1:D:344:GLN:N	0.97	1.44
2:N:256:LEU:CD2	2:N:307:PRO:HG2	1.46	1.44
1:H:238:LEU:CD2	1:H:262:ILE:HG13	1.48	1.43
1:E:303:THR:HG22	1:E:457:THR:CA	1.48	1.43
1:I:110:LEU:HD23	1:I:111:ASN:N	1.11	1.43
1:L:83:HIS:HB3	1:L:84:ALA:CA	1.43	1.42
1:I:41:PRO:HB2	1:I:266:GLN:NE2	1.32	1.41
1:F:250:ASP:CG	1:F:251:VAL:HA	1.33	1.41
1:J:108:ASN:HB2	1:J:235:ASN:ND2	1.36	1.41
1:J:84:ALA:HB1	1:J:86:ILE:CB	1.49	1.41
2:N:227:PHE:CZ	2:N:232:TYR:CE2	2.08	1.41
1:M:208:PHE:CD1	1:M:214:TRP:NE1	1.87	1.40
1:B:337:ILE:HD13	1:B:338:TYR:N	1.37	1.39
2:N:255:THR:CG2	2:N:257:SER:HB2	1.52	1.39
1:E:48:ASN:HD21	1:J:295:ARG:NH2	1.16	1.39
1:A:108:ASN:ND2	1:A:109:THR:HG22	1.36	1.38
1:B:190:VAL:CG2	1:B:198:ARG:HB3	1.51	1.38
1:D:61:THR:HG23	1:D:275:THR:CG2	1.54	1.37
1:A:341:LEU:HD13	1:A:342:ASN:N	1.39	1.37
2:N:227:PHE:CE1	2:N:232:TYR:CE2	2.10	1.37
1:B:396:THR:C	1:B:410:ILE:HD11	1.42	1.37
2:N:173:LYS:CD	2:N:254:PRO:CG	1.88	1.37
1:D:341:LEU:HD23	1:D:342:ASN:N	1.35	1.36
1:E:258:GLY:CA	1:E:341:LEU:HD11	1.54	1.36
1:F:264:PHE:C	1:F:265:GLN:HE21	1.26	1.35
2:N:370:LEU:HD12	2:N:371:SER:N	1.38	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:215:ASP:OD1	1:D:217:GLU:HG2	1.26	1.34
1:G:1:MET:N	1:G:2:SER:HB3	1.35	1.34
1:G:264:PHE:C	1:G:265:GLN:HE21	1.30	1.34
2:N:109:SER:HB2	2:N:110:PRO:CA	1.42	1.34
2:N:255:THR:HG23	2:N:257:SER:CB	1.57	1.34
1:J:498:VAL:CB	1:J:499:SER:HB2	1.55	1.33
1:I:326:LEU:HD12	1:I:421:LEU:CD1	1.58	1.33
1:E:341:LEU:HD23	1:E:342:ASN:N	1.44	1.33
1:B:363:ASN:HB3	1:B:364:GLN:NE2	1.43	1.32
2:N:255:THR:CG2	2:N:257:SER:CB	2.06	1.32
1:D:343:ASN:O	1:D:347:THR:HG22	1.15	1.32
1:B:396:THR:CB	1:B:410:ILE:CD1	2.06	1.32
2:N:333:TYR:C	2:N:334:MET:SD	2.08	1.32
1:D:250:ASP:O	1:D:251:VAL:HG13	1.18	1.32
1:M:88:GLU:O	1:M:194:THR:HG22	1.19	1.31
1:A:254:ASN:HD22	1:A:255:SER:N	1.27	1.31
1:H:428:ARG:C	1:H:428:ARG:HD3	1.47	1.31
1:J:84:ALA:CB	1:J:86:ILE:HB	1.58	1.31
1:D:261:ASN:C	1:D:262:ILE:HD13	1.50	1.31
1:B:186:THR:HA	1:D:397:GLN:OE1	1.21	1.30
1:D:78:THR:HG23	1:D:259:SER:OG	1.28	1.30
1:J:498:VAL:HG23	1:J:499:SER:CB	1.59	1.30
1:E:324:ARG:HA	1:E:433:GLU:OE1	1.14	1.30
1:J:341:LEU:HD13	1:J:341:LEU:C	1.51	1.30
1:D:357:LEU:HD12	1:D:358:ASN:N	1.42	1.30
1:L:83:HIS:HB3	1:L:84:ALA:CB	1.60	1.29
1:I:110:LEU:CD2	1:I:111:ASN:N	1.95	1.29
1:I:441:LEU:HD13	1:I:442:GLN:N	1.47	1.29
1:D:343:ASN:ND2	1:D:344:GLN:N	1.81	1.29
1:F:382:GLN:NE2	1:F:423:LYS:HZ1	1.25	1.29
1:B:396:THR:CA	1:B:410:ILE:CD1	2.10	1.29
2:N:256:LEU:CA	2:N:257:SER:HB3	1.61	1.28
1:G:209:LEU:HD23	1:G:209:LEU:O	1.33	1.28
1:C:377:TYR:CE2	1:C:381:VAL:HG12	1.68	1.28
1:K:1:MET:CE	1:L:26:TRP:HB3	1.59	1.28
1:C:327:TYR:C	1:C:328:LEU:HD23	1.50	1.28
1:E:303:THR:CG2	1:E:457:THR:HA	1.64	1.28
1:I:340:ASN:ND2	1:I:343:ASN:HB3	1.45	1.28
1:A:481:ILE:HG21	1:F:365:GLN:CG	1.64	1.28
1:A:53:ILE:CD1	1:E:41:PRO:HB3	1.62	1.28
1:K:179:GLU:OE2	1:M:177:LEU:HD22	1.32	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:396:THR:HB	1:B:410:ILE:CD1	1.63	1.27
1:C:482:GLY:C	1:C:484:ALA:HB3	1.53	1.27
1:J:57:PRO:HB3	1:L:363:ASN:CG	1.50	1.27
1:M:313:LYS:HZ2	1:M:313:LYS:CB	1.46	1.27
1:A:253:GLY:HA3	1:A:254:ASN:CG	1.51	1.27
1:B:332:GLN:NE2	1:B:333:SER:HB3	1.49	1.27
1:J:108:ASN:CB	1:J:235:ASN:ND2	1.97	1.27
1:J:85:GLY:HA2	1:J:86:ILE:CB	1.51	1.27
1:H:430:ASP:OD2	1:H:489:VAL:HG13	1.35	1.27
1:M:507:TYR:CE1	1:M:508:GLY:O	1.87	1.27
1:G:39:PRO:HD2	1:L:49:GLN:NE2	1.48	1.27
1:H:335:ASN:HD22	1:H:336:VAL:N	1.30	1.27
1:H:430:ASP:OD1	1:H:490:LEU:HB2	1.33	1.27
1:K:85:GLY:HA2	1:K:86:ILE:CB	1.60	1.27
2:N:45:VAL:H	2:N:332:ILE:CD1	1.49	1.26
1:B:357:LEU:C	1:B:357:LEU:HD12	1.55	1.26
1:B:385:TYR:CE2	1:B:387:LYS:HB2	1.68	1.26
1:D:357:LEU:C	1:D:357:LEU:HD12	1.52	1.26
1:A:481:ILE:HG23	1:F:365:GLN:CB	1.64	1.26
1:B:337:ILE:HD11	1:B:338:TYR:CD2	1.70	1.26
1:H:217:GLU:OE2	1:H:505:ARG:HD3	1.36	1.26
2:N:91:TYR:OH	2:N:157:PRO:HG3	1.27	1.26
1:E:401:GLY:HA2	1:G:89:ASN:OD1	1.26	1.26
1:C:237:ASN:ND2	1:C:344:GLN:NE2	1.84	1.25
1:G:1:MET:HB3	1:G:2:SER:CB	1.66	1.25
1:M:507:TYR:HE1	1:M:508:GLY:O	1.14	1.25
1:D:264:PHE:C	1:D:265:GLN:HE21	1.39	1.25
1:B:89:ASN:HD21	1:D:402:VAL:C	1.38	1.25
1:M:386:ASN:HD21	1:M:387:LYS:CE	1.48	1.25
2:N:255:THR:C	2:N:257:SER:HB2	1.54	1.25
1:I:140:LYS:HG2	1:I:179:GLU:OE2	1.17	1.25
1:H:480:SER:C	1:H:481:ILE:HD12	1.56	1.25
1:M:313:LYS:NZ	1:M:313:LYS:HB3	1.49	1.25
1:F:264:PHE:C	1:F:265:GLN:NE2	1.88	1.24
1:G:1:MET:CA	1:G:2:SER:HB3	1.63	1.24
1:G:213:LEU:CA	1:G:214:TRP:HB2	1.63	1.24
1:H:428:ARG:HD3	1:H:429:ASP:N	1.52	1.24
1:B:247:ILE:HD13	1:B:247:ILE:O	1.34	1.24
1:D:215:ASP:OD1	1:D:217:GLU:CG	1.86	1.24
1:H:311:THR:C	1:H:312:PHE:HD2	1.42	1.23
1:K:247:ILE:C	1:K:247:ILE:HD13	1.54	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:140:LYS:HD2	1:M:179:GLU:CD	1.57	1.23
1:B:461:TYR:O	1:B:462:ILE:HD12	1.36	1.23
1:I:85:GLY:C	1:I:86:ILE:HD13	1.58	1.23
1:E:365:GLN:HB3	1:L:122:GLU:OE2	1.32	1.23
1:I:190:VAL:HG22	1:I:198:ARG:O	1.36	1.23
1:B:90:LEU:O	1:B:90:LEU:HD12	1.34	1.22
1:C:494:ILE:HD13	1:C:495:THR:N	1.51	1.22
2:N:256:LEU:CD2	2:N:307:PRO:CG	2.07	1.22
1:F:507:TYR:CD1	1:F:508:GLY:HA3	1.72	1.22
1:C:485:SER:O	1:C:489:VAL:HG12	1.04	1.22
1:M:102:PRO:HB2	1:M:241:ILE:CD1	1.69	1.22
1:B:89:ASN:OD1	1:D:401:GLY:HA2	1.39	1.22
1:E:324:ARG:CA	1:E:433:GLU:OE1	1.88	1.22
1:I:340:ASN:HD21	1:I:343:ASN:CB	1.50	1.22
1:J:85:GLY:HA2	1:J:86:ILE:CG2	1.70	1.22
1:D:6:ILE:CD1	1:D:6:ILE:H	1.49	1.22
1:J:498:VAL:HA	1:J:499:SER:OG	1.37	1.21
1:K:179:GLU:OE2	1:M:177:LEU:CD2	1.86	1.21
1:A:341:LEU:HD22	1:A:341:LEU:O	1.40	1.21
1:E:304:LEU:HD23	1:E:304:LEU:O	1.39	1.21
1:I:379:PHE:CD2	1:I:424:ASP:OD2	1.93	1.21
1:D:250:ASP:O	1:D:251:VAL:CG1	1.89	1.21
2:N:171:THR:CB	2:N:173:LYS:H	1.53	1.21
1:B:411:GLY:O	1:B:412:LEU:HD12	1.35	1.21
1:G:359:LEU:O	1:G:367:ILE:HD13	1.35	1.20
1:H:140:LYS:HG2	1:H:179:GLU:OE2	1.39	1.20
1:J:140:LYS:HG2	1:J:179:GLU:OE2	1.40	1.20
1:M:208:PHE:CE1	1:M:214:TRP:HD1	1.58	1.20
1:J:209:LEU:O	1:J:209:LEU:HD23	1.38	1.20
1:G:264:PHE:C	1:G:265:GLN:NE2	1.94	1.20
1:H:441:LEU:HD13	1:H:441:LEU:O	1.34	1.20
2:N:173:LYS:CG	2:N:254:PRO:HG3	1.70	1.20
1:B:166:ASN:CG	1:B:167:PRO:HD2	1.62	1.20
1:M:209:LEU:C	1:M:209:LEU:HD12	1.49	1.20
1:B:333:SER:HB2	1:B:336:VAL:CG2	1.70	1.20
1:J:87:THR:HG22	1:J:88:GLU:CG	1.71	1.20
1:D:427:LEU:HD12	1:D:431:GLU:OE1	1.41	1.20
1:B:209:LEU:HD23	1:B:209:LEU:C	1.62	1.20
2:N:168:ASP:OD1	2:N:171:THR:HG23	1.40	1.20
1:A:341:LEU:HD22	1:A:341:LEU:C	1.60	1.19
1:I:86:ILE:N	1:I:86:ILE:HD13	1.55	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:239:ALA:HB3	1:D:344:GLN:NE2	1.53	1.19
1:H:293:LEU:N	1:H:293:LEU:HD23	1.56	1.19
1:M:324:ARG:HG2	1:M:324:ARG:HH11	1.03	1.19
1:I:41:PRO:CB	1:I:266:GLN:HE22	1.56	1.19
1:M:437:GLY:C	1:M:439:PHE:HE2	1.46	1.19
1:K:140:LYS:HD2	1:K:179:GLU:OE2	1.40	1.19
2:N:370:LEU:HD12	2:N:370:LEU:C	1.57	1.19
1:D:423:LYS:HG2	1:D:424:ASP:OD1	1.40	1.19
1:M:209:LEU:HD12	1:M:210:PRO:N	1.55	1.19
1:M:208:PHE:CE1	1:M:214:TRP:CD1	2.29	1.19
1:I:341:LEU:HD13	1:I:341:LEU:O	1.41	1.18
1:K:85:GLY:CA	1:K:86:ILE:HB	1.71	1.18
1:C:324:ARG:HG2	1:C:324:ARG:HH11	1.07	1.18
2:N:235:ASP:CB	2:N:236:PRO:HA	1.73	1.18
1:F:443:VAL:CG1	1:F:462:ILE:HD11	1.72	1.18
1:B:209:LEU:HD23	1:B:210:PRO:N	1.57	1.18
1:E:303:THR:CG2	1:E:457:THR:HG22	1.72	1.18
1:M:334:ASP:O	1:M:337:ILE:HG13	1.40	1.18
1:E:300:PHE:HZ	1:E:313:LYS:O	1.23	1.18
1:I:379:PHE:CE2	1:I:424:ASP:OD2	1.96	1.18
1:G:312:PHE:HA	1:G:313:LYS:HB2	1.24	1.18
1:M:140:LYS:HD2	1:M:179:GLU:OE2	1.44	1.18
2:N:180:ALA:HB2	2:N:246:PHE:HA	1.27	1.17
1:C:208:PHE:O	1:C:214:TRP:CZ3	1.96	1.17
1:K:247:ILE:HD13	1:K:248:THR:N	1.55	1.17
1:C:485:SER:O	1:C:489:VAL:CG1	1.92	1.17
1:A:481:ILE:CG2	1:F:365:GLN:CG	2.22	1.17
1:M:337:ILE:HD12	1:M:338:TYR:CE2	1.78	1.17
1:C:123:LEU:HD21	1:C:127:ILE:HG12	1.17	1.17
1:D:48:ASN:ND2	2:N:348:GLN:HB3	1.59	1.17
1:L:264:PHE:C	1:L:265:GLN:HE21	1.48	1.17
1:K:265:GLN:HE21	1:K:265:GLN:CA	1.55	1.17
2:N:168:ASP:CG	2:N:171:THR:HG23	1.63	1.17
1:H:6:ILE:HD12	1:H:6:ILE:N	1.53	1.17
2:N:184:ASP:OD1	2:N:226:ARG:HB2	1.43	1.17
1:F:250:ASP:OD2	1:F:251:VAL:HA	1.45	1.17
1:G:140:LYS:HG2	1:G:179:GLU:OE2	1.44	1.16
1:M:208:PHE:HD1	1:M:214:TRP:NE1	1.25	1.16
1:M:507:TYR:HD1	1:M:508:GLY:N	1.40	1.16
1:C:376:LEU:CA	1:C:379:PHE:HE2	1.57	1.16
1:H:328:LEU:CD2	1:H:462:ILE:HD13	1.74	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:430:ASP:OD2	1:I:490:LEU:HD12	1.40	1.16
1:M:507:TYR:CD1	1:M:508:GLY:CA	2.28	1.16
1:K:436:ILE:CG2	1:K:482:GLY:HA3	1.75	1.16
1:H:486:LYS:HB2	1:H:486:LYS:NZ	1.48	1.15
2:N:36:PHE:HZ	2:N:335:VAL:CG1	1.42	1.15
1:C:376:LEU:CA	1:C:379:PHE:CE2	2.29	1.15
1:D:260:MET:C	1:D:261:ASN:HD22	1.47	1.15
1:D:1:MET:SD	1:D:10:VAL:HB	1.85	1.15
1:B:187:MET:H	1:D:397:GLN:CD	1.50	1.15
1:B:396:THR:CB	1:B:410:ILE:HD11	1.68	1.15
1:C:377:TYR:CE2	1:C:381:VAL:CG1	2.30	1.15
1:J:341:LEU:CD1	1:J:342:ASN:N	2.07	1.15
1:C:226:THR:HG21	1:C:475:THR:HB	1.18	1.15
1:A:305:ALA:HB1	1:A:306:PRO:HA	1.27	1.15
1:H:206:GLN:HG3	1:H:208:PHE:CE2	1.82	1.15
1:C:123:LEU:CD2	1:C:127:ILE:HG12	1.77	1.14
1:I:191:THR:HG23	1:I:192:ASN:H	0.99	1.14
1:B:337:ILE:CD1	1:B:338:TYR:CD2	2.30	1.14
1:B:86:ILE:O	1:B:86:ILE:HG12	1.43	1.14
1:K:238:LEU:HD12	1:K:238:LEU:O	1.44	1.14
1:E:48:ASN:ND2	1:J:295:ARG:NH2	1.93	1.14
1:F:507:TYR:CD1	1:F:508:GLY:CA	2.30	1.14
1:G:41:PRO:HG2	1:L:44:SER:O	1.45	1.14
1:K:86:ILE:O	1:K:86:ILE:HD12	1.46	1.14
1:C:413:GLU:HG3	1:C:414:GLY:N	1.45	1.14
1:L:83:HIS:CB	1:L:84:ALA:HA	1.75	1.14
2:N:168:ASP:HB3	2:N:171:THR:CG2	1.75	1.14
1:A:250:ASP:O	1:A:251:VAL:HG13	1.47	1.13
1:H:313:LYS:NZ	1:H:313:LYS:HB2	1.40	1.13
1:M:237:ASN:HD22	1:M:238:LEU:N	1.44	1.13
1:A:481:ILE:HG23	1:F:365:GLN:HB3	1.15	1.13
1:I:357:LEU:C	1:I:357:LEU:HD13	1.69	1.13
1:A:110:LEU:HD12	1:A:110:LEU:C	1.68	1.13
1:A:1:MET:HG3	1:A:10:VAL:HG13	1.14	1.13
1:E:100:ALA:HB2	1:E:182:ARG:HD3	1.28	1.13
1:L:99:ARG:HH11	1:L:99:ARG:HG2	1.08	1.13
1:B:247:ILE:HD13	1:B:247:ILE:C	1.64	1.13
1:K:95:ARG:HH11	1:K:95:ARG:HG2	1.13	1.13
2:N:271:LEU:HG	2:N:336:ASP:CG	1.67	1.13
1:D:61:THR:CG2	1:D:275:THR:HG23	1.79	1.13
1:H:179:GLU:OE1	1:J:177:LEU:HD21	1.49	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:341:LEU:HA	1:J:344:GLN:HE21	1.06	1.12
1:G:41:PRO:HD2	1:L:44:SER:O	1.48	1.12
1:I:1:MET:HG3	1:I:10:VAL:HB	1.29	1.12
1:I:493:ARG:HG3	1:I:493:ARG:HH11	0.95	1.12
1:M:507:TYR:CE1	1:M:508:GLY:C	2.23	1.12
1:B:396:THR:O	1:B:410:ILE:CD1	1.97	1.12
1:H:430:ASP:OD1	1:H:490:LEU:CB	1.97	1.12
1:I:493:ARG:CG	1:I:493:ARG:HH11	1.62	1.12
1:E:140:LYS:HD2	1:E:179:GLU:OE2	1.49	1.12
1:C:478:MET:SD	1:L:34:GLN:NE2	2.22	1.12
1:L:35:VAL:HG22	1:L:274:VAL:HG23	1.18	1.12
1:A:481:ILE:HG21	1:F:365:GLN:HG2	1.32	1.12
1:D:405:GLN:HA	1:D:405:GLN:NE2	1.47	1.12
1:H:350:VAL:CG1	1:H:413:GLU:HB2	1.78	1.12
1:G:6:ILE:HD12	1:G:6:ILE:H	1.10	1.12
1:I:326:LEU:CD1	1:I:421:LEU:HD11	1.78	1.12
2:N:168:ASP:CB	2:N:171:THR:HG23	1.80	1.12
1:C:412:LEU:HD12	1:C:412:LEU:C	1.68	1.11
1:G:246:ASP:O	1:G:249:ASN:ND2	1.82	1.11
1:E:96:ASP:OD1	1:E:244:HIS:HA	1.46	1.11
1:I:377:TYR:HE2	1:I:381:VAL:CG2	1.63	1.11
1:C:490:LEU:HD12	1:C:490:LEU:O	1.50	1.11
2:N:173:LYS:CD	2:N:254:PRO:CD	2.27	1.11
1:C:209:LEU:HD12	1:C:210:PRO:O	1.46	1.11
1:F:382:GLN:NE2	1:F:423:LYS:NZ	1.98	1.11
1:H:350:VAL:CG1	1:H:413:GLU:CB	2.29	1.11
1:J:364:GLN:HE21	1:J:367:ILE:HD11	1.15	1.11
1:J:436:ILE:HG13	1:J:437:GLY:HA3	1.32	1.11
1:B:228:LEU:CD1	1:B:230:PHE:CE2	2.32	1.11
1:C:304:LEU:HD13	1:C:310:SER:OG	1.47	1.11
1:D:265:GLN:N	1:D:265:GLN:HE21	1.46	1.11
1:E:74:ASP:OD1	1:E:75:ILE:N	1.82	1.11
1:F:210:PRO:HB2	1:F:211:PRO:HD3	1.29	1.11
1:B:110:LEU:HD12	1:B:110:LEU:C	1.71	1.11
1:M:59:ALA:O	1:M:60:GLN:HG2	1.50	1.11
1:B:396:THR:CB	1:B:410:ILE:HG12	1.80	1.11
1:F:322:ILE:CD1	1:F:322:ILE:H	1.61	1.11
1:I:433:GLU:OE2	1:I:433:GLU:HA	1.46	1.11
1:D:257:ILE:O	1:D:257:ILE:HD13	1.48	1.11
1:D:83:HIS:CE1	1:D:256:THR:HG22	1.87	1.10
1:H:179:GLU:OE1	1:J:177:LEU:CD2	1.98	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:498:VAL:HA	1:J:499:SER:CB	1.78	1.10
1:K:483:VAL:HG11	1:L:4:SER:HB3	1.11	1.10
1:B:396:THR:N	1:B:410:ILE:CD1	2.14	1.10
1:D:140:LYS:HG2	1:D:179:GLU:OE2	1.51	1.10
1:G:265:GLN:N	1:G:265:GLN:HE21	1.48	1.10
1:B:324:ARG:HG2	1:B:324:ARG:HH11	1.01	1.10
1:C:316:VAL:CG2	1:C:442:GLN:OE1	1.98	1.10
1:G:41:PRO:CD	1:L:44:SER:O	2.00	1.10
1:H:121:ILE:HD11	1:H:293:LEU:HG	1.10	1.10
1:M:132:ARG:HH11	1:M:132:ARG:CG	1.57	1.10
1:K:471:VAL:HG21	1:L:5:ALA:CB	1.82	1.10
2:N:219:ARG:HG2	2:N:219:ARG:HH11	1.14	1.10
1:D:286:ILE:HD12	1:D:287:THR:H	1.16	1.10
1:D:78:THR:CG2	1:D:259:SER:OG	1.99	1.10
1:G:9:ASN:HD22	1:G:10:VAL:N	1.49	1.10
1:I:41:PRO:CB	1:I:266:GLN:NE2	2.14	1.10
2:N:168:ASP:CB	2:N:171:THR:CG2	2.30	1.10
1:G:6:ILE:HD12	1:G:6:ILE:N	1.60	1.09
1:M:503:LEU:O	1:M:503:LEU:HD22	1.52	1.09
2:N:357:ARG:HH11	2:N:357:ARG:CG	1.64	1.09
1:C:413:GLU:CG	1:C:414:GLY:H	1.57	1.09
1:F:506:ILE:O	1:F:506:ILE:HD12	1.47	1.09
1:G:41:PRO:CG	1:L:44:SER:O	2.00	1.09
1:G:343:ASN:HD22	1:G:344:GLN:N	1.51	1.09
1:D:41:PRO:HB2	1:D:266:GLN:HE22	1.11	1.09
1:E:340:ASN:O	1:E:344:GLN:HG2	1.52	1.09
1:L:217:GLU:O	1:L:218:GLN:HG2	1.52	1.09
1:M:92:GLN:HB2	1:M:95:ARG:HB2	1.32	1.09
2:N:173:LYS:HD2	2:N:254:PRO:CD	1.81	1.09
2:N:171:THR:HB	2:N:173:LYS:H	1.07	1.09
2:N:256:LEU:HA	2:N:257:SER:CB	1.81	1.09
1:E:303:THR:HG21	1:E:457:THR:HG22	1.28	1.09
1:G:1:MET:CB	1:G:2:SER:CB	2.30	1.09
1:E:299:GLN:HE22	1:J:46:SER:HA	1.14	1.09
1:M:59:ALA:C	1:M:60:GLN:HG2	1.71	1.09
1:H:339:GLN:O	1:H:340:ASN:HB2	1.42	1.09
1:G:367:ILE:HG22	1:G:368:LEU:HD12	1.24	1.09
1:G:376:LEU:H	1:G:376:LEU:HD13	1.18	1.09
1:J:322:ILE:HG22	1:J:361:TRP:CZ2	1.87	1.09
1:J:498:VAL:CA	1:J:499:SER:CB	2.30	1.09
2:N:91:TYR:OH	2:N:157:PRO:CG	1.99	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:326:LEU:HD12	1:I:421:LEU:HD13	1.30	1.09
1:M:386:ASN:HD21	1:M:387:LYS:HE3	1.03	1.09
2:N:20:ILE:HG23	2:N:36:PHE:CE1	1.88	1.09
1:B:385:TYR:HE2	1:B:387:LYS:CB	1.66	1.09
1:M:102:PRO:CB	1:M:241:ILE:CD1	2.30	1.09
2:N:348:GLN:HE21	2:N:348:GLN:HA	0.95	1.09
1:A:135:THR:HG22	1:A:139:VAL:CG1	1.83	1.08
1:A:85:GLY:CA	1:A:86:ILE:HB	1.81	1.08
1:D:6:ILE:HD13	1:D:6:ILE:N	1.57	1.08
1:E:45:PHE:HD1	1:E:45:PHE:C	1.56	1.08
1:K:85:GLY:HA3	1:K:86:ILE:HG22	1.32	1.08
1:A:114:ILE:C	1:A:116:GLY:HA2	1.73	1.08
1:D:503:LEU:N	1:D:503:LEU:HD23	1.55	1.08
1:E:99:ARG:HG2	1:E:99:ARG:HH11	0.98	1.08
1:M:136:PRO:HD2	1:M:139:VAL:HB	1.34	1.08
1:F:250:ASP:CG	1:F:251:VAL:CA	2.22	1.08
1:H:6:ILE:CD1	1:H:6:ILE:H	1.64	1.08
1:M:367:ILE:HG22	1:M:368:LEU:HD12	1.09	1.08
2:N:256:LEU:HD22	2:N:307:PRO:HG3	1.16	1.08
1:C:478:MET:HA	1:C:478:MET:HE2	1.24	1.08
1:E:48:ASN:ND2	1:J:295:ARG:HH22	1.49	1.08
1:L:324:ARG:HH11	1:L:324:ARG:HG2	1.13	1.08
1:D:96:ASP:OD2	1:D:244:HIS:HA	1.51	1.08
1:D:351:PHE:O	1:D:414:GLY:HA3	1.51	1.08
1:E:87:THR:O	1:E:88:GLU:HB2	1.51	1.08
1:H:430:ASP:OD2	1:H:489:VAL:CG1	2.01	1.08
1:B:192:ASN:HD22	1:B:193:THR:N	1.50	1.08
1:H:1:MET:HG3	1:H:10:VAL:HB	1.35	1.08
1:I:437:GLY:HA2	1:I:439:PHE:HE2	1.17	1.08
2:N:227:PHE:HA	2:N:228:LEU:HB2	1.36	1.08
1:G:85:GLY:HA2	1:G:86:ILE:HB	1.25	1.08
1:J:15:GLU:HG2	1:J:16:PRO:HD2	1.09	1.08
1:J:324:ARG:HH11	1:J:324:ARG:HG2	1.12	1.08
1:B:396:THR:CB	1:B:410:ILE:CG1	2.28	1.08
1:F:443:VAL:HG11	1:F:462:ILE:HD11	1.28	1.08
1:I:364:GLN:HA	1:I:364:GLN:OE1	1.49	1.08
1:J:498:VAL:CA	1:J:499:SER:HB2	1.84	1.08
1:H:335:ASN:ND2	1:H:336:VAL:N	2.02	1.07
1:I:471:VAL:HG21	1:J:5:ALA:HB3	1.28	1.07
1:L:89:ASN:HB3	1:L:192:ASN:HD21	1.16	1.07
2:N:255:THR:HG22	2:N:257:SER:HB2	1.35	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:357:LEU:HD12	1:B:358:ASN:N	1.69	1.07
1:G:85:GLY:HA3	1:G:86:ILE:HG22	1.27	1.07
1:L:198:ARG:HH11	1:L:198:ARG:HG2	1.02	1.07
1:B:410:ILE:HD12	1:B:410:ILE:H	0.98	1.07
1:J:57:PRO:HB3	1:L:363:ASN:OD1	1.54	1.07
1:D:110:LEU:HD11	1:D:209:LEU:CD2	1.84	1.07
1:I:374:GLN:HE21	1:I:374:GLN:HA	1.04	1.07
1:M:386:ASN:ND2	1:M:387:LYS:HD3	1.68	1.07
2:N:353:ILE:HD11	2:N:357:ARG:O	1.51	1.07
1:D:260:MET:HG2	1:D:262:ILE:HD11	1.33	1.07
1:I:325:LYS:NZ	1:I:327:TYR:HE2	1.51	1.07
1:K:59:ALA:HB1	1:K:60:GLN:NE2	1.68	1.07
1:D:61:THR:HG23	1:D:275:THR:HG23	1.12	1.07
1:D:380:SER:OG	1:D:383:ASN:HB2	1.54	1.07
1:I:377:TYR:HE2	1:I:381:VAL:HG23	1.04	1.07
1:I:490:LEU:HD23	1:I:491:ASN:N	1.70	1.07
2:N:255:THR:HG23	2:N:257:SER:CA	1.83	1.07
1:L:34:GLN:HG3	1:L:34:GLN:O	1.52	1.07
1:G:1:MET:HB3	1:G:2:SER:HB2	1.35	1.07
1:L:265:GLN:HE21	1:L:265:GLN:N	1.53	1.07
1:C:99:ARG:HH11	1:C:99:ARG:HG2	1.13	1.06
1:I:350:VAL:HB	1:I:413:GLU:HB2	1.34	1.06
1:D:257:ILE:N	1:D:257:ILE:HD12	1.58	1.06
1:A:117:PHE:O	1:A:117:PHE:HD1	1.39	1.06
1:A:135:THR:HG22	1:A:139:VAL:HG11	1.33	1.06
1:D:110:LEU:HD11	1:D:209:LEU:HD23	1.37	1.06
1:K:436:ILE:HG22	1:K:482:GLY:HA3	1.32	1.06
1:B:166:ASN:OD1	1:B:167:PRO:HD2	1.53	1.06
1:D:436:ILE:CG1	1:D:437:GLY:HA2	1.86	1.06
1:M:102:PRO:HB2	1:M:241:ILE:HD11	1.27	1.06
1:A:481:ILE:CG2	1:F:365:GLN:CB	2.34	1.06
1:K:60:GLN:O	1:K:276:PRO:HD2	1.54	1.06
1:C:313:LYS:HB3	1:C:313:LYS:HZ2	1.17	1.06
1:E:173:SER:HA	1:F:164:ASN:OD1	1.55	1.06
1:D:252:SER:CB	1:D:253:GLY:HA2	1.81	1.06
1:C:426:GLY:HA3	1:D:33:GLN:O	1.56	1.06
1:J:330:VAL:HG22	1:J:459:ASP:O	1.54	1.06
2:N:156:ALA:HB1	2:N:157:PRO:HA	1.09	1.06
1:E:140:LYS:CD	1:E:179:GLU:OE2	2.03	1.06
1:E:45:PHE:CD2	1:E:266:GLN:HA	1.90	1.06
1:E:303:THR:HG21	1:E:457:THR:CG2	1.85	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:285:ARG:HB2	1:I:473:SER:OG	1.53	1.06
1:E:299:GLN:NE2	1:J:46:SER:HA	1.70	1.05
1:C:84:ALA:CB	1:C:86:ILE:CB	2.33	1.05
1:E:300:PHE:CZ	1:E:313:LYS:O	2.09	1.05
1:G:89:ASN:HB3	1:G:192:ASN:HD21	1.14	1.05
1:I:1:MET:CG	1:I:10:VAL:HB	1.86	1.05
1:L:83:HIS:CB	1:L:84:ALA:CA	2.30	1.05
1:G:39:PRO:HB3	1:G:270:TYR:CE1	1.91	1.05
1:I:314:SER:O	1:I:315:ASN:HB2	1.55	1.05
1:K:1:MET:SD	1:L:26:TRP:CG	2.49	1.05
1:G:376:LEU:HA	1:G:379:PHE:CD2	1.92	1.05
1:H:340:ASN:O	1:H:344:GLN:HG2	1.53	1.05
1:C:244:HIS:HB3	1:C:345:ILE:HD11	1.34	1.05
1:B:89:ASN:OD1	1:D:401:GLY:CA	2.04	1.05
1:G:194:THR:O	1:G:195:THR:HG23	1.56	1.05
1:J:85:GLY:HA2	1:J:86:ILE:HB	1.11	1.05
1:J:87:THR:HG22	1:J:88:GLU:HG3	1.12	1.05
2:N:179:GLN:HA	2:N:180:ALA:HB3	1.37	1.05
1:D:357:LEU:CD1	1:D:358:ASN:N	2.20	1.05
1:M:437:GLY:C	1:M:439:PHE:CE2	2.30	1.05
1:B:228:LEU:HD11	1:B:230:PHE:CE2	1.89	1.05
1:D:262:ILE:HD13	1:D:262:ILE:N	1.56	1.05
1:D:264:PHE:C	1:D:265:GLN:NE2	2.11	1.05
1:F:507:TYR:HD1	1:F:508:GLY:HA3	1.04	1.05
1:L:341:LEU:O	1:L:341:LEU:HD12	1.57	1.04
2:N:85:TYR:O	2:N:100:PHE:HA	1.55	1.04
1:M:249:ASN:HB2	1:M:255:SER:HA	1.36	1.04
2:N:109:SER:CB	2:N:110:PRO:HA	1.85	1.04
1:D:339:GLN:HB2	2:N:28:ASP:H	1.13	1.04
1:G:87:THR:O	1:G:88:GLU:HG2	1.57	1.04
1:M:140:LYS:CD	1:M:179:GLU:OE2	2.04	1.04
1:D:171:PHE:HD1	1:D:171:PHE:C	1.58	1.04
1:A:85:GLY:HA2	1:A:86:ILE:HB	1.36	1.04
1:D:324:ARG:HH11	1:D:324:ARG:HG2	1.18	1.04
1:J:132:ARG:HH21	1:J:132:ARG:HG3	1.22	1.04
1:J:15:GLU:CG	1:J:16:PRO:HD2	1.86	1.04
1:C:86:ILE:HG23	1:C:86:ILE:O	1.57	1.04
2:N:27:ASN:HB2	2:N:29:GLN:O	1.58	1.04
2:N:45:VAL:H	2:N:332:ILE:HD11	1.15	1.04
1:H:238:LEU:HD21	1:H:262:ILE:CG1	1.87	1.04
1:M:386:ASN:O	1:M:387:LYS:HD3	1.58	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:323:PRO:HG2	1:D:421:LEU:HD13	1.35	1.03
1:A:253:GLY:HA2	1:A:254:ASN:HB3	1.40	1.03
1:C:313:LYS:CA	1:C:313:LYS:HZ3	1.69	1.03
1:D:405:GLN:HE21	1:D:405:GLN:HA	1.01	1.03
1:H:427:LEU:HB3	1:H:431:GLU:HG3	1.37	1.03
1:L:83:HIS:HB3	1:L:84:ALA:HA	1.09	1.03
2:N:348:GLN:NE2	2:N:348:GLN:HA	1.68	1.03
1:G:194:THR:C	1:G:195:THR:HG23	1.74	1.03
2:N:357:ARG:HH11	2:N:357:ARG:HG2	1.23	1.03
1:M:507:TYR:C	1:M:507:TYR:HD1	1.59	1.03
2:N:333:TYR:CB	2:N:334:MET:SD	2.47	1.03
1:D:505:ARG:HH11	1:D:505:ARG:HG2	1.17	1.03
1:F:364:GLN:HG3	1:F:367:ILE:HD12	1.37	1.03
1:I:336:VAL:HG22	1:I:337:ILE:H	1.17	1.03
1:J:498:VAL:HG23	1:J:499:SER:HB2	1.04	1.03
2:N:252:GLU:C	2:N:254:PRO:HD2	1.77	1.03
2:N:256:LEU:CA	2:N:257:SER:CB	2.30	1.03
1:I:491:ASN:C	1:I:491:ASN:HD22	1.60	1.03
1:J:134:HIS:O	1:J:135:THR:HG23	1.59	1.03
1:B:228:LEU:CD1	1:B:230:PHE:HE2	1.67	1.03
1:B:337:ILE:HD13	1:B:337:ILE:C	1.78	1.03
1:B:438:ASN:OD1	1:G:318:GLN:NE2	1.90	1.03
1:H:365:GLN:HE21	1:L:370:GLY:HA3	1.23	1.03
2:N:109:SER:CB	2:N:110:PRO:CA	2.34	1.03
1:E:235:ASN:ND2	1:J:108:ASN:ND2	2.06	1.03
1:I:190:VAL:CG2	1:I:198:ARG:O	2.07	1.03
1:B:194:THR:O	1:B:195:THR:HG22	1.57	1.02
1:I:262:ILE:HG22	1:I:263:SER:H	1.20	1.02
2:N:235:ASP:HB3	2:N:236:PRO:HA	1.38	1.02
1:C:483:VAL:N	1:C:484:ALA:HB3	1.72	1.02
1:D:110:LEU:HD12	1:D:123:LEU:HD11	1.41	1.02
1:I:194:THR:O	1:I:195:THR:HG23	1.56	1.02
1:K:158:ARG:HH11	1:K:158:ARG:HB2	1.18	1.02
1:M:365:GLN:HE21	1:M:365:GLN:C	1.62	1.02
1:B:332:GLN:HB2	1:B:456:VAL:CG2	1.88	1.02
1:D:187:MET:N	1:D:187:MET:SD	2.30	1.02
1:B:186:THR:CA	1:D:397:GLN:OE1	2.06	1.02
1:G:2:SER:OG	1:G:3:ASN:N	1.87	1.02
1:I:140:LYS:CG	1:I:179:GLU:OE2	2.07	1.02
1:J:341:LEU:HA	1:J:344:GLN:NE2	1.72	1.02
1:I:191:THR:HG23	1:I:192:ASN:N	1.66	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:490:LEU:HD23	1:I:490:LEU:C	1.78	1.02
1:D:507:TYR:CD2	1:D:508:GLY:C	2.32	1.02
2:N:271:LEU:HG	2:N:336:ASP:OD1	1.60	1.02
1:B:190:VAL:HG21	1:B:198:ARG:HB3	1.02	1.02
1:F:212:PHE:N	1:F:212:PHE:HD2	1.58	1.02
1:F:322:ILE:HD13	1:F:322:ILE:H	0.88	1.02
1:B:313:LYS:HZ1	1:B:444:GLN:NE2	1.56	1.02
1:D:343:ASN:O	1:D:347:THR:CG2	2.08	1.02
1:I:377:TYR:CE2	1:I:381:VAL:HG23	1.93	1.02
1:L:229:THR:O	1:L:230:PHE:CD2	2.11	1.02
1:B:26:TRP:HB3	1:C:1:MET:CE	1.90	1.02
1:C:362:ASN:H	1:C:362:ASN:HD22	1.04	1.02
1:B:396:THR:H	1:B:410:ILE:CD1	1.73	1.01
1:E:303:THR:CG2	1:E:457:THR:CA	2.31	1.01
1:F:106:ILE:HD12	1:F:241:ILE:HG12	1.41	1.01
1:G:374:GLN:HE21	1:G:375:ASN:HA	1.21	1.01
1:M:195:THR:HG23	1:M:196:THR:HG22	1.03	1.01
1:M:507:TYR:CD1	1:M:508:GLY:N	2.28	1.01
1:B:132:ARG:NH2	1:B:413:GLU:OE2	1.94	1.01
1:K:1:MET:HE1	1:L:26:TRP:HB3	1.09	1.01
1:B:6:ILE:CD1	1:C:285:ARG:HD2	1.90	1.01
1:I:1:MET:CE	1:J:26:TRP:HB3	1.90	1.01
1:I:341:LEU:HD13	1:I:341:LEU:C	1.80	1.01
1:H:365:GLN:NE2	1:L:370:GLY:HA3	1.76	1.01
2:N:186:THR:HG23	2:N:226:ARG:HB2	1.39	1.01
1:B:462:ILE:HG22	1:B:462:ILE:O	1.56	1.01
1:H:238:LEU:CD2	1:H:262:ILE:CG1	2.36	1.01
1:K:85:GLY:CA	1:K:86:ILE:CB	2.30	1.01
1:L:357:LEU:CD1	1:L:357:LEU:C	2.30	1.01
2:N:173:LYS:HD3	2:N:254:PRO:HG2	1.38	1.01
1:J:85:GLY:CA	1:J:86:ILE:CB	2.39	1.01
1:A:490:LEU:HD22	1:A:491:ASN:HD22	1.22	1.00
2:N:109:SER:HB2	2:N:110:PRO:C	1.82	1.00
1:M:195:THR:CG2	1:M:196:THR:HG22	1.90	1.00
1:B:190:VAL:CG2	1:B:198:ARG:CB	2.38	1.00
1:F:322:ILE:N	1:F:322:ILE:HD13	1.73	1.00
1:I:326:LEU:CD1	1:I:421:LEU:CD1	2.36	1.00
1:K:80:ASN:HB3	1:K:258:GLY:HA2	1.43	1.00
2:N:334:MET:N	2:N:334:MET:SD	2.30	1.00
1:D:261:ASN:C	1:D:262:ILE:CD1	2.30	1.00
1:G:376:LEU:CD1	1:G:376:LEU:H	1.74	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:LEU:C	1:A:110:LEU:CD1	2.30	1.00
1:I:493:ARG:NH1	1:I:493:ARG:HG3	1.61	1.00
1:C:328:LEU:N	1:C:328:LEU:HD23	1.75	1.00
1:C:84:ALA:HB2	1:C:86:ILE:CB	1.90	1.00
1:E:304:LEU:H	1:E:304:LEU:HD22	1.27	1.00
1:E:45:PHE:HD2	1:E:266:GLN:HA	1.24	1.00
1:M:140:LYS:HD2	1:M:179:GLU:CG	1.91	1.00
1:H:487:GLU:HG3	1:H:488:GLU:N	1.74	1.00
1:I:441:LEU:C	1:I:441:LEU:CD1	2.29	1.00
1:K:265:GLN:HE21	1:K:265:GLN:HA	1.22	1.00
1:E:438:ASN:ND2	1:L:318:GLN:HE21	1.57	1.00
1:H:394:GLY:O	1:H:412:LEU:CD1	2.08	1.00
1:I:490:LEU:CD2	1:I:490:LEU:C	2.30	1.00
1:I:85:GLY:C	1:I:86:ILE:CD1	2.30	1.00
1:I:85:GLY:HA3	1:I:86:ILE:HG23	1.41	1.00
1:C:374:GLN:NE2	1:C:378:ASP:OD1	1.94	1.00
1:E:303:THR:CG2	1:E:457:THR:CG2	2.39	1.00
1:G:208:PHE:O	1:G:209:LEU:HB3	1.56	1.00
1:I:55:ASN:HB2	1:I:56:PRO:HD2	1.41	1.00
1:J:351:PHE:HD1	1:J:351:PHE:N	1.60	1.00
1:J:85:GLY:CA	1:J:86:ILE:HG22	1.91	1.00
1:B:150:PHE:HE1	1:B:179:GLU:OE2	1.44	0.99
1:E:1:MET:HG3	1:E:10:VAL:HB	1.43	0.99
1:E:45:PHE:CD1	1:E:45:PHE:C	2.30	0.99
1:G:376:LEU:HA	1:G:379:PHE:CE2	1.95	0.99
1:I:189:VAL:O	1:I:189:VAL:HG12	1.59	0.99
1:J:108:ASN:HB2	1:J:235:ASN:HD22	0.83	0.99
1:L:250:ASP:OD2	1:L:251:VAL:N	1.95	0.99
1:B:19:GLU:HB2	1:B:20:LEU:HA	1.42	0.99
1:B:6:ILE:HD11	1:C:285:ARG:CD	1.92	0.99
1:C:65:ARG:HB3	1:C:213:LEU:HD23	1.43	0.99
2:N:348:GLN:HE21	2:N:348:GLN:CA	1.75	0.99
1:B:396:THR:N	1:B:410:ILE:HD11	1.75	0.99
1:C:316:VAL:HG22	1:C:442:GLN:OE1	1.59	0.99
1:F:208:PHE:O	1:F:209:LEU:HD12	1.61	0.99
1:H:351:PHE:CD2	1:H:416:ILE:HG22	1.97	0.99
1:J:85:GLY:CA	1:J:86:ILE:HB	1.92	0.99
2:N:24:PHE:CE2	2:N:355:PRO:HA	1.97	0.99
1:B:333:SER:HB2	1:B:336:VAL:HG22	1.41	0.99
1:E:182:ARG:HH11	1:E:182:ARG:HG3	1.25	0.99
1:H:311:THR:C	1:H:312:PHE:CD2	2.35	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:GLY:CA	1:A:254:ASN:CG	2.30	0.99
1:I:83:HIS:CD2	1:I:256:THR:HG22	1.97	0.99
1:B:337:ILE:HD13	1:B:338:TYR:CA	1.93	0.99
1:D:343:ASN:HD22	1:D:343:ASN:C	1.60	0.99
2:N:370:LEU:CD1	2:N:370:LEU:C	2.30	0.99
1:C:327:TYR:C	1:C:328:LEU:CD2	2.30	0.99
1:C:84:ALA:HB2	1:C:86:ILE:HB	1.00	0.99
1:H:428:ARG:HG3	1:H:431:GLU:OE1	1.63	0.99
1:C:412:LEU:CD1	1:C:412:LEU:C	2.31	0.99
1:C:412:LEU:HD12	1:C:413:GLU:N	1.76	0.99
1:D:343:ASN:HD22	1:D:344:GLN:H	0.99	0.99
1:H:313:LYS:HB2	1:H:313:LYS:HZ2	1.17	0.99
1:J:213:LEU:O	1:J:213:LEU:HD12	1.62	0.99
1:C:490:LEU:HD12	1:C:490:LEU:C	1.81	0.99
1:I:108:ASN:OD1	1:I:235:ASN:HB2	1.62	0.99
1:J:299:GLN:HE21	1:J:335:ASN:ND2	1.60	0.99
2:N:36:PHE:CZ	2:N:335:VAL:HG13	1.94	0.99
1:E:341:LEU:HD23	1:E:342:ASN:H	0.87	0.99
1:F:364:GLN:HG3	1:F:367:ILE:CD1	1.90	0.99
1:B:333:SER:O	1:B:337:ILE:HG22	1.62	0.98
1:C:386:ASN:HD22	1:C:386:ASN:C	1.65	0.98
1:E:45:PHE:HE2	1:E:266:GLN:N	1.60	0.98
1:H:238:LEU:HD23	1:H:238:LEU:O	1.62	0.98
1:M:332:GLN:HE22	1:M:336:VAL:HG11	1.28	0.98
2:N:255:THR:HG22	2:N:257:SER:CB	1.83	0.98
1:A:53:ILE:HD11	1:E:41:PRO:HB2	1.40	0.98
1:B:396:THR:O	1:B:410:ILE:HD11	1.55	0.98
1:B:505:ARG:HG2	1:B:505:ARG:HH11	1.28	0.98
1:C:438:ASN:HD22	1:C:438:ASN:N	1.60	0.98
1:G:264:PHE:O	1:G:265:GLN:NE2	1.96	0.98
1:I:377:TYR:CE2	1:I:381:VAL:CG2	2.46	0.98
2:N:184:ASP:OD1	2:N:226:ARG:CB	2.11	0.98
1:D:257:ILE:HD12	1:D:257:ILE:H	1.15	0.98
1:B:208:PHE:HE1	1:B:214:TRP:CG	1.81	0.98
1:J:1:MET:HG3	1:J:10:VAL:HG22	1.44	0.98
1:J:57:PRO:CB	1:L:363:ASN:OD1	2.10	0.98
1:B:89:ASN:ND2	1:D:402:VAL:C	2.17	0.98
1:H:340:ASN:C	1:H:344:GLN:HE21	1.65	0.98
1:J:341:LEU:HD13	1:J:342:ASN:CA	1.93	0.98
1:L:35:VAL:HG22	1:L:274:VAL:CG2	1.91	0.98
2:N:226:ARG:HG3	2:N:228:LEU:HD12	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:153:ASN:O	1:C:412:LEU:CD1	2.10	0.98
1:B:305:ALA:CB	1:B:455:THR:HB	1.92	0.98
1:B:332:GLN:NE2	1:B:456:VAL:HG23	1.78	0.98
1:L:357:LEU:HD12	1:L:357:LEU:C	1.84	0.98
1:M:437:GLY:CA	1:M:439:PHE:HE2	1.77	0.98
1:I:490:LEU:CD2	1:I:491:ASN:HB3	1.92	0.98
2:N:322:ARG:CB	2:N:322:ARG:HH11	1.77	0.98
1:A:253:GLY:CA	1:A:254:ASN:CB	2.41	0.98
1:D:255:SER:HB2	1:D:257:ILE:HD11	1.42	0.98
1:E:433:GLU:HA	1:E:433:GLU:OE2	1.63	0.98
1:F:324:ARG:HB2	1:F:467:ASP:OD1	1.62	0.98
1:G:209:LEU:C	1:G:209:LEU:HD23	1.78	0.98
1:E:235:ASN:HD22	1:J:108:ASN:ND2	1.62	0.98
1:J:65:ARG:HG3	1:J:65:ARG:HH11	1.25	0.98
1:B:333:SER:HB2	1:B:336:VAL:HG21	1.44	0.97
1:M:367:ILE:HD12	1:M:367:ILE:H	1.27	0.97
1:B:423:LYS:HA	1:D:15:GLU:OE2	1.64	0.97
1:D:85:GLY:HA2	1:D:86:ILE:HB	1.46	0.97
1:H:486:LYS:HB2	1:H:486:LYS:HZ2	1.11	0.97
1:M:88:GLU:O	1:M:194:THR:CG2	2.12	0.97
1:A:481:ILE:CG2	1:F:365:GLN:HG3	1.92	0.97
1:M:155:GLN:HG2	1:M:412:LEU:O	1.62	0.97
2:N:91:TYR:CZ	2:N:157:PRO:HD3	2.00	0.97
1:B:35:VAL:HG23	1:B:274:VAL:HG22	1.44	0.97
1:E:340:ASN:O	1:E:344:GLN:CG	2.12	0.97
1:G:324:ARG:HH11	1:G:324:ARG:HG2	1.26	0.97
1:H:293:LEU:H	1:H:293:LEU:HD23	1.29	0.97
1:M:252:SER:H	1:M:253:GLY:HA2	1.29	0.97
1:A:341:LEU:HD13	1:A:342:ASN:H	1.20	0.97
1:B:461:TYR:C	1:B:462:ILE:HD12	1.84	0.97
1:D:171:PHE:CD1	1:D:171:PHE:C	2.30	0.97
1:D:250:ASP:C	1:D:251:VAL:CG1	2.25	0.97
1:E:86:ILE:HD11	1:E:194:THR:OG1	1.60	0.97
1:K:247:ILE:C	1:K:247:ILE:CD1	2.30	0.97
1:B:110:LEU:CD1	1:B:110:LEU:C	2.30	0.97
1:C:237:ASN:HD22	1:C:344:GLN:NE2	1.61	0.97
1:M:59:ALA:O	1:M:60:GLN:CG	2.11	0.97
1:M:365:GLN:HE21	1:M:366:GLY:N	1.60	0.97
2:N:171:THR:HB	2:N:173:LYS:N	1.79	0.97
1:B:247:ILE:CD1	1:B:247:ILE:C	2.30	0.97
1:C:313:LYS:HZ3	1:C:313:LYS:HA	1.25	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:394:GLY:O	1:H:412:LEU:HD11	1.65	0.97
1:I:132:ARG:HH11	1:I:132:ARG:HG3	1.30	0.97
1:L:253:GLY:N	1:L:254:ASN:HA	1.75	0.97
1:I:325:LYS:NZ	1:I:327:TYR:CE2	2.32	0.97
1:J:140:LYS:HE2	1:J:179:GLU:OE2	1.64	0.97
1:B:363:ASN:HB3	1:B:364:GLN:HE22	0.98	0.97
1:G:79:ALA:HB2	1:G:195:THR:HA	1.45	0.97
1:D:436:ILE:HG13	1:D:437:GLY:HA2	1.46	0.96
1:I:341:LEU:C	1:I:341:LEU:CD1	2.30	0.96
1:J:33:GLN:O	1:J:34:GLN:HB2	1.61	0.96
1:A:110:LEU:HD12	1:A:111:ASN:N	1.80	0.96
1:A:254:ASN:C	1:A:254:ASN:HD22	1.66	0.96
1:A:254:ASN:ND2	1:A:255:SER:N	2.12	0.96
1:A:115:ASN:N	1:A:116:GLY:HA2	1.75	0.96
1:C:172:THR:O	1:C:173:SER:HB3	1.63	0.96
1:F:212:PHE:N	1:F:212:PHE:CD2	2.30	0.96
1:G:41:PRO:O	1:L:44:SER:HA	1.65	0.96
1:H:1:MET:CG	1:H:10:VAL:HB	1.95	0.96
1:H:428:ARG:CD	1:H:428:ARG:C	2.30	0.96
1:K:332:GLN:HG2	1:K:456:VAL:HG23	1.46	0.96
2:N:227:PHE:HA	2:N:228:LEU:CB	1.91	0.96
1:E:313:LYS:HE2	1:E:442:GLN:NE2	1.80	0.96
1:G:301:GLN:H	1:G:301:GLN:CD	1.68	0.96
1:H:351:PHE:HE2	1:H:416:ILE:HG21	1.26	0.96
1:K:136:PRO:HD2	1:K:139:VAL:HB	1.42	0.96
1:D:391:GLU:OE1	1:D:413:GLU:HB2	1.63	0.96
1:M:295:ARG:CG	1:M:295:ARG:HH11	1.78	0.96
1:B:305:ALA:HB3	1:B:455:THR:HB	1.47	0.96
1:M:265:GLN:O	1:M:267:PRO:HD3	1.66	0.96
2:N:333:TYR:CA	2:N:334:MET:SD	2.53	0.96
1:G:213:LEU:HA	1:G:214:TRP:HB2	0.97	0.96
1:K:409:VAL:HB	1:K:452:GLN:OE1	1.64	0.96
1:G:213:LEU:HA	1:G:214:TRP:CB	1.94	0.96
1:H:133:TYR:OH	1:H:418:CYS:HB3	1.64	0.96
1:I:351:PHE:N	1:I:351:PHE:CD1	2.30	0.96
1:M:301:GLN:N	1:M:301:GLN:HE21	1.60	0.96
1:C:429:ASP:O	1:C:430:ASP:HB3	1.60	0.96
1:G:99:ARG:HB2	1:G:99:ARG:HH11	1.30	0.96
1:I:88:GLU:HB3	1:J:403:SER:HB3	1.47	0.96
1:F:1:MET:HE1	1:G:26:TRP:HB3	1.45	0.96
1:G:318:GLN:HA	1:G:440:ASN:HB3	1.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:158:ARG:HB3	1:H:246:ASP:HB2	1.48	0.96
1:M:132:ARG:HG2	1:M:132:ARG:HH11	1.26	0.96
1:B:166:ASN:CG	1:B:167:PRO:CD	2.33	0.95
1:C:121:ILE:HD11	1:C:293:LEU:HB2	1.48	0.95
1:J:15:GLU:HG2	1:J:16:PRO:CD	1.96	0.95
1:L:426:GLY:O	1:L:427:LEU:HD13	1.66	0.95
1:B:212:PHE:HD1	1:B:212:PHE:N	1.62	0.95
1:M:439:PHE:N	1:M:439:PHE:HD2	1.63	0.95
1:B:108:ASN:C	1:B:108:ASN:HD22	1.69	0.95
1:D:507:TYR:CE2	1:D:508:GLY:C	2.40	0.95
1:H:350:VAL:C	1:H:351:PHE:HD1	1.69	0.95
1:B:209:LEU:CD2	1:B:210:PRO:N	2.30	0.95
1:C:494:ILE:CD1	1:C:495:THR:N	2.29	0.95
1:D:75:ILE:CG1	1:D:262:ILE:HG23	1.96	0.95
1:G:85:GLY:HA2	1:G:86:ILE:CB	1.97	0.95
1:J:498:VAL:CB	1:J:499:SER:CB	2.45	0.95
2:N:235:ASP:HB2	2:N:236:PRO:HA	1.47	0.95
1:A:108:ASN:C	1:A:108:ASN:HD22	1.70	0.95
1:D:351:PHE:CD1	1:D:351:PHE:N	2.30	0.95
1:L:83:HIS:HB3	1:L:84:ALA:HB2	1.45	0.95
1:B:110:LEU:CD1	1:B:111:ASN:N	2.29	0.95
1:F:324:ARG:HH11	1:F:324:ARG:HG2	1.28	0.95
1:H:206:GLN:HG3	1:H:208:PHE:HE2	1.30	0.95
1:C:494:ILE:C	1:C:494:ILE:CD1	2.30	0.95
1:D:372:SER:O	1:D:375:ASN:N	1.99	0.95
1:I:439:PHE:HD2	1:I:439:PHE:H	1.15	0.95
1:L:1:MET:SD	1:M:26:TRP:CG	2.60	0.95
1:A:332:GLN:HE21	1:A:456:VAL:HG23	1.31	0.95
1:C:313:LYS:CA	1:C:313:LYS:NZ	2.30	0.95
1:C:377:TYR:CD2	1:C:381:VAL:HG12	2.01	0.95
1:E:341:LEU:CD2	1:E:342:ASN:N	2.30	0.95
1:G:208:PHE:CE1	1:G:214:TRP:NE1	2.35	0.95
1:H:17:ARG:HH11	1:H:17:ARG:HG2	1.28	0.95
1:K:483:VAL:CG1	1:L:4:SER:HB3	1.96	0.95
2:N:85:TYR:HA	2:N:196:ASN:ND2	1.81	0.95
1:A:106:ILE:HD11	1:A:238:LEU:HA	1.48	0.95
1:B:26:TRP:HB3	1:C:1:MET:HE1	1.46	0.95
1:I:194:THR:C	1:I:195:THR:HG23	1.85	0.95
1:M:324:ARG:NH1	1:M:324:ARG:HG2	1.78	0.95
1:M:386:ASN:ND2	1:M:387:LYS:CE	2.30	0.95
2:N:156:ALA:HB1	2:N:157:PRO:CA	1.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:LEU:CD1	1:A:111:ASN:N	2.30	0.95
1:B:87:THR:HB	1:B:88:GLU:OE1	1.66	0.95
1:G:1:MET:N	1:G:2:SER:CB	2.30	0.95
1:J:100:ALA:HB2	1:J:182:ARG:HD3	1.48	0.95
1:M:209:LEU:CD1	1:M:209:LEU:C	2.30	0.95
2:N:357:ARG:HH11	2:N:357:ARG:CB	1.79	0.95
2:N:370:LEU:CD1	2:N:371:SER:N	2.30	0.95
1:B:313:LYS:NZ	1:B:444:GLN:NE2	2.15	0.94
1:C:483:VAL:N	1:C:484:ALA:CB	2.29	0.94
1:E:99:ARG:HG2	1:E:99:ARG:NH1	1.77	0.94
1:H:313:LYS:HZ3	1:H:313:LYS:HB2	1.18	0.94
1:J:57:PRO:HB3	1:L:363:ASN:ND2	1.82	0.94
1:K:59:ALA:CB	1:K:60:GLN:NE2	2.30	0.94
1:L:99:ARG:HD3	1:L:243:SER:HB3	1.49	0.94
1:M:429:ASP:OD2	1:M:430:ASP:N	1.99	0.94
2:N:99:ASN:HD21	2:N:150:ALA:HB2	1.31	0.94
2:N:227:PHE:CA	2:N:228:LEU:HB2	1.97	0.94
1:D:340:ASN:HB2	2:N:28:ASP:OD1	1.66	0.94
1:D:260:MET:C	1:D:261:ASN:ND2	2.21	0.94
1:D:262:ILE:N	1:D:262:ILE:CD1	2.30	0.94
1:H:312:PHE:HD2	1:H:312:PHE:N	1.63	0.94
1:H:351:PHE:CE2	1:H:416:ILE:CG2	2.50	0.94
1:I:357:LEU:HD13	1:I:357:LEU:O	1.67	0.94
1:I:441:LEU:CD1	1:I:442:GLN:N	2.30	0.94
1:M:108:ASN:HD22	1:M:109:THR:HG22	1.31	0.94
1:A:253:GLY:HA3	1:A:254:ASN:OD1	1.66	0.94
1:H:428:ARG:O	1:H:431:GLU:HG2	1.65	0.94
1:K:209:LEU:HD12	1:K:210:PRO:O	1.67	0.94
2:N:256:LEU:N	2:N:257:SER:CB	2.31	0.94
1:B:363:ASN:CB	1:B:364:GLN:NE2	2.30	0.94
1:B:89:ASN:HD21	1:D:402:VAL:CA	1.79	0.94
1:C:412:LEU:CD1	1:C:413:GLU:N	2.30	0.94
1:C:482:GLY:C	1:C:484:ALA:CB	2.36	0.94
1:D:503:LEU:H	1:D:503:LEU:HD23	1.21	0.94
1:D:6:ILE:H	1:D:6:ILE:HD13	0.78	0.94
1:M:386:ASN:ND2	1:M:387:LYS:CD	2.30	0.94
2:N:357:ARG:NH1	2:N:357:ARG:CB	2.30	0.94
1:A:341:LEU:CD1	1:A:342:ASN:N	2.30	0.94
1:B:337:ILE:CD1	1:B:338:TYR:N	2.30	0.94
1:H:324:ARG:HH11	1:H:324:ARG:HG2	1.30	0.94
1:I:191:THR:CG2	1:I:192:ASN:N	2.30	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:364:GLN:HE21	1:J:367:ILE:CD1	1.80	0.94
1:B:396:THR:HB	1:B:410:ILE:HG12	0.96	0.94
1:G:254:ASN:N	1:G:254:ASN:HD22	1.66	0.94
1:I:108:ASN:OD1	1:I:235:ASN:CB	2.16	0.94
1:K:1:MET:HE1	1:L:26:TRP:CB	1.97	0.94
1:K:238:LEU:HD12	1:K:238:LEU:C	1.86	0.94
1:K:247:ILE:CD1	1:K:248:THR:N	2.30	0.94
2:N:271:LEU:HD12	2:N:334:MET:HG2	1.50	0.94
1:A:108:ASN:ND2	1:A:109:THR:CG2	2.30	0.94
1:B:357:LEU:C	1:B:357:LEU:CD1	2.30	0.94
1:C:80:ASN:HB3	1:C:258:GLY:O	1.68	0.94
1:C:84:ALA:HB1	1:C:86:ILE:HB	1.49	0.94
1:D:257:ILE:N	1:D:257:ILE:CD1	2.30	0.94
1:E:258:GLY:HA2	1:E:341:LEU:HD11	0.95	0.94
1:G:21:ASN:HD22	1:G:21:ASN:H	1.06	0.94
1:J:108:ASN:CB	1:J:235:ASN:HD22	1.68	0.94
1:K:1:MET:CE	1:L:26:TRP:CB	2.46	0.94
1:K:265:GLN:N	1:K:265:GLN:HE21	1.64	0.94
1:E:438:ASN:ND2	1:L:318:GLN:NE2	2.15	0.94
1:A:380:SER:HG	1:A:384:GLY:N	1.66	0.94
1:B:203:LEU:N	1:B:203:LEU:HD23	1.83	0.94
1:D:134:HIS:HE1	1:D:508:GLY:C	1.70	0.94
1:E:441:LEU:HD23	1:E:442:GLN:N	1.82	0.94
1:G:108:ASN:HB2	1:G:235:ASN:OD1	1.66	0.94
1:H:428:ARG:CD	1:H:429:ASP:N	2.29	0.94
1:H:6:ILE:HD12	1:H:6:ILE:H	0.78	0.94
1:B:357:LEU:CD1	1:B:358:ASN:N	2.30	0.94
1:D:250:ASP:C	1:D:251:VAL:HG12	1.86	0.94
1:H:238:LEU:HD21	1:H:262:ILE:HG13	0.97	0.94
1:H:350:VAL:HG12	1:H:413:GLU:HB2	1.47	0.94
1:M:295:ARG:HG2	1:M:295:ARG:HH11	1.31	0.94
1:E:301:GLN:HB2	1:E:302:ASN:HD22	1.31	0.94
1:G:254:ASN:H	1:G:254:ASN:HD22	1.16	0.94
1:M:158:ARG:HH11	1:M:158:ARG:HG2	1.32	0.94
2:N:20:ILE:CG2	2:N:36:PHE:CE1	2.51	0.94
1:A:117:PHE:CD1	1:A:117:PHE:C	2.36	0.93
1:D:341:LEU:CD2	1:D:342:ASN:N	2.30	0.93
1:F:212:PHE:H	1:F:212:PHE:HD2	1.08	0.93
1:L:15:GLU:HG3	1:L:16:PRO:HD2	1.49	0.93
1:K:59:ALA:CB	1:K:60:GLN:HE21	1.81	0.93
1:F:443:VAL:HG11	1:F:462:ILE:CD1	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:503:LEU:HA	1:F:506:ILE:CG2	1.99	0.93
1:G:265:GLN:O	1:G:267:PRO:HD3	1.67	0.93
1:H:136:PRO:HD2	1:H:139:VAL:HB	1.49	0.93
1:H:436:ILE:HG13	1:H:437:GLY:HA2	1.49	0.93
1:J:322:ILE:HG22	1:J:361:TRP:HZ2	1.25	0.93
2:N:156:ALA:CB	2:N:157:PRO:HA	1.99	0.93
2:N:255:THR:C	2:N:257:SER:CB	2.36	0.93
1:A:115:ASN:HD22	1:A:472:ILE:HG23	1.29	0.93
1:C:299:GLN:HE21	1:C:299:GLN:H	1.09	0.93
1:D:503:LEU:N	1:D:503:LEU:CD2	2.32	0.93
1:K:85:GLY:CA	1:K:86:ILE:CG2	2.46	0.93
1:M:1:MET:HG3	1:M:10:VAL:HB	1.48	0.93
1:M:209:LEU:CD1	1:M:210:PRO:N	2.30	0.93
1:G:1:MET:CA	1:G:2:SER:CB	2.44	0.93
1:G:65:ARG:HG3	1:G:65:ARG:HH11	1.32	0.93
1:H:293:LEU:N	1:H:293:LEU:CD2	2.30	0.93
1:M:332:GLN:HE22	1:M:336:VAL:CG1	1.81	0.93
1:A:108:ASN:HD21	1:A:109:THR:HG22	1.33	0.93
1:C:60:GLN:OE1	1:C:60:GLN:HA	1.67	0.93
1:D:405:GLN:HE21	1:D:405:GLN:CA	1.81	0.93
1:J:85:GLY:CA	1:J:86:ILE:CG2	2.46	0.93
1:K:224:ASN:HD22	1:K:224:ASN:H	1.07	0.93
1:B:324:ARG:HG2	1:B:324:ARG:NH1	1.77	0.93
1:G:85:GLY:CA	1:G:86:ILE:HG22	1.99	0.93
1:K:33:GLN:HG2	1:K:34:GLN:HG2	1.51	0.93
2:N:103:PHE:HE1	2:N:131:TYR:HD1	1.13	0.93
1:B:6:ILE:CD1	1:C:285:ARG:CD	2.47	0.93
1:D:427:LEU:CD1	1:D:431:GLU:OE1	2.16	0.93
1:M:211:PRO:O	1:M:212:PHE:CD2	2.21	0.93
1:A:1:MET:CG	1:A:10:VAL:HG13	1.98	0.93
1:B:314:SER:O	1:B:315:ASN:HB2	1.64	0.93
1:B:332:GLN:HB2	1:B:456:VAL:HG23	1.51	0.93
1:H:99:ARG:HH22	1:H:240:ARG:HE	1.15	0.93
1:H:80:ASN:HB2	1:H:258:GLY:O	1.68	0.93
1:K:437:GLY:C	1:K:439:PHE:CE2	2.41	0.93
1:C:217:GLU:C	1:C:218:GLN:HE21	1.72	0.93
1:D:342:ASN:HD22	1:D:342:ASN:C	1.71	0.93
1:F:507:TYR:HD1	1:F:508:GLY:CA	1.74	0.93
1:H:481:ILE:CD1	1:H:481:ILE:N	2.30	0.93
1:L:83:HIS:CB	1:L:84:ALA:CB	2.47	0.93
1:C:313:LYS:NZ	1:C:313:LYS:CB	2.30	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:505:ARG:HG2	1:D:505:ARG:NH1	1.80	0.92
1:G:192:ASN:C	1:G:192:ASN:HD22	1.71	0.92
1:C:313:LYS:CB	1:C:313:LYS:HZ2	1.83	0.92
1:E:1:MET:CG	1:E:10:VAL:HB	1.98	0.92
1:E:340:ASN:N	1:E:340:ASN:HD22	1.63	0.92
1:E:45:PHE:CE2	1:E:266:GLN:N	2.37	0.92
1:E:423:LYS:HE3	1:F:17:ARG:HD2	1.49	0.92
1:F:180:LEU:H	1:F:180:LEU:HD23	1.34	0.92
1:G:89:ASN:HB3	1:G:192:ASN:ND2	1.85	0.92
1:H:217:GLU:OE2	1:H:505:ARG:CD	2.16	0.92
2:N:272:LEU:H	2:N:272:LEU:HD12	1.33	0.92
1:B:39:PRO:HB3	1:B:270:TYR:CE1	2.04	0.92
1:J:393:ASN:HB3	1:J:394:GLY:HA2	1.51	0.92
1:K:73:TYR:HE2	1:K:199:ILE:CD1	1.82	0.92
1:A:117:PHE:HD1	1:A:117:PHE:C	1.70	0.92
1:C:362:ASN:N	1:C:362:ASN:HD22	1.64	0.92
1:J:108:ASN:CB	1:J:235:ASN:HD21	1.76	0.92
1:M:367:ILE:CG2	1:M:368:LEU:HD12	1.99	0.92
1:C:313:LYS:HE3	1:C:442:GLN:HE21	1.33	0.92
1:G:6:ILE:CD1	1:G:6:ILE:N	2.30	0.92
1:M:386:ASN:ND2	1:M:387:LYS:HE3	1.83	0.92
1:C:438:ASN:H	1:C:438:ASN:HD22	1.13	0.92
1:H:99:ARG:HH12	1:H:240:ARG:CZ	1.81	0.92
1:H:328:LEU:HD23	1:H:462:ILE:HD13	1.51	0.92
1:F:501:ASN:HD22	1:F:501:ASN:H	1.09	0.92
1:G:39:PRO:HD2	1:L:49:GLN:HE22	1.27	0.92
1:I:359:LEU:HB2	1:I:443:VAL:HG22	1.51	0.92
1:M:194:THR:O	1:M:195:THR:HG22	1.70	0.92
1:M:195:THR:HG23	1:M:196:THR:CG2	1.98	0.92
2:N:353:ILE:CD1	2:N:357:ARG:O	2.17	0.92
1:G:6:ILE:O	1:G:6:ILE:HD13	1.70	0.92
1:K:495:THR:CG2	1:L:11:VAL:HB	2.00	0.92
1:M:439:PHE:N	1:M:439:PHE:CD2	2.30	0.92
2:N:109:SER:HB2	2:N:110:PRO:HA	0.95	0.92
2:N:118:PRO:HB2	2:N:122:SER:O	1.67	0.92
1:G:340:ASN:HD21	1:G:342:ASN:HD22	1.12	0.92
1:K:436:ILE:HD13	1:K:436:ILE:O	1.68	0.92
1:B:484:ALA:HA	1:D:1:MET:N	1.86	0.91
1:E:339:GLN:HB2	1:E:340:ASN:ND2	1.85	0.91
1:J:299:GLN:NE2	1:J:335:ASN:ND2	2.17	0.91
1:M:132:ARG:HH11	1:M:132:ARG:HG3	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:85:GLY:HA2	1:M:86:ILE:HB	1.50	0.91
1:E:278:LEU:HD12	1:E:278:LEU:H	1.35	0.91
1:E:322:ILE:HD11	1:E:435:VAL:HG12	1.51	0.91
1:G:1:MET:CB	1:G:2:SER:HB3	1.95	0.91
1:G:89:ASN:CB	1:G:192:ASN:HD21	1.83	0.91
1:I:110:LEU:HD23	1:I:110:LEU:C	1.81	0.91
1:K:85:GLY:HA3	1:K:86:ILE:CG2	1.98	0.91
2:N:45:VAL:N	2:N:332:ILE:HD11	1.85	0.91
1:G:378:ASP:O	1:G:381:VAL:HG13	1.71	0.91
1:F:180:LEU:HD21	1:G:388:THR:HG21	1.50	0.91
1:H:486:LYS:CB	1:H:486:LYS:NZ	2.30	0.91
1:K:59:ALA:HB1	1:K:60:GLN:HE22	1.35	0.91
1:A:325:LYS:HZ1	1:A:327:TYR:HE2	1.19	0.91
1:B:164:ASN:HD22	1:C:173:SER:C	1.73	0.91
1:H:155:GLN:CG	1:H:451:ASN:HB3	2.00	0.91
1:I:87:THR:HB	1:I:88:GLU:HG2	1.52	0.91
2:N:107:LEU:HD12	2:N:107:LEU:H	1.36	0.91
2:N:179:GLN:HA	2:N:180:ALA:CB	2.00	0.91
1:G:359:LEU:O	1:G:367:ILE:CD1	2.19	0.91
1:L:218:GLN:NE2	1:M:382:GLN:OE1	2.03	0.91
1:H:351:PHE:HE2	1:H:416:ILE:CG2	1.82	0.91
1:J:140:LYS:CE	1:J:179:GLU:OE2	2.19	0.91
1:J:84:ALA:CB	1:J:86:ILE:HG12	2.01	0.91
1:L:198:ARG:NH1	1:L:198:ARG:HG2	1.82	0.91
1:M:237:ASN:ND2	1:M:238:LEU:H	1.67	0.91
1:B:410:ILE:CD1	1:B:410:ILE:H	1.83	0.91
1:C:3:ASN:HB2	1:D:483:VAL:O	1.71	0.91
1:D:75:ILE:HG13	1:D:262:ILE:HG23	1.53	0.91
1:G:1:MET:H3	1:G:2:SER:HB3	1.24	0.91
1:M:411:GLY:O	1:M:412:LEU:HD12	1.69	0.91
1:E:2:SER:O	1:E:3:ASN:HB3	1.70	0.91
1:E:401:GLY:CA	1:G:89:ASN:OD1	2.17	0.91
1:J:339:GLN:O	1:J:340:ASN:HB3	1.68	0.91
1:J:84:ALA:HB1	1:J:86:ILE:CG1	2.00	0.91
2:N:256:LEU:N	2:N:257:SER:HB2	1.86	0.91
1:C:153:ASN:O	1:C:412:LEU:HD13	1.70	0.91
1:C:377:TYR:HE2	1:C:381:VAL:HG12	1.22	0.91
1:C:478:MET:HA	1:C:478:MET:CE	2.00	0.91
1:H:351:PHE:CE2	1:H:416:ILE:HG22	2.06	0.91
1:H:313:LYS:HG3	1:H:444:GLN:CG	2.01	0.90
1:J:351:PHE:CD1	1:J:351:PHE:N	2.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:332:GLN:HG3	1:B:333:SER:OG	1.70	0.90
1:F:250:ASP:CB	1:F:251:VAL:HA	1.99	0.90
1:H:480:SER:C	1:H:481:ILE:CD1	2.39	0.90
1:J:140:LYS:CG	1:J:179:GLU:OE2	2.20	0.90
1:J:88:GLU:O	1:J:194:THR:HB	1.70	0.90
1:F:1:MET:CE	1:G:26:TRP:HB3	2.00	0.90
1:C:41:PRO:O	1:G:44:SER:HB2	1.71	0.90
1:I:110:LEU:CD2	1:I:110:LEU:C	2.30	0.90
1:K:100:ALA:HB2	1:K:182:ARG:HD3	1.52	0.90
1:L:249:ASN:HB2	1:L:254:ASN:O	1.72	0.90
2:N:171:THR:CB	2:N:173:LYS:N	2.33	0.90
1:D:341:LEU:HD23	1:D:342:ASN:H	1.34	0.90
1:K:471:VAL:HG21	1:L:5:ALA:HB2	1.53	0.90
1:M:507:TYR:CD1	1:M:507:TYR:C	2.35	0.90
2:N:197:VAL:HG11	2:N:220:ASP:OD2	1.71	0.90
2:N:173:LYS:HD2	2:N:251:GLN:O	1.71	0.90
1:H:480:SER:O	1:H:481:ILE:HD12	1.72	0.90
1:J:187:MET:O	1:J:187:MET:SD	2.30	0.90
1:B:21:ASN:HD22	1:B:21:ASN:H	1.18	0.90
1:K:41:PRO:HB2	1:K:266:GLN:NE2	1.87	0.90
2:N:45:VAL:N	2:N:332:ILE:CD1	2.34	0.90
1:A:132:ARG:HG2	1:A:132:ARG:HH11	1.36	0.90
1:B:337:ILE:HD11	1:B:338:TYR:HD2	1.34	0.90
1:D:187:MET:O	1:D:187:MET:SD	2.30	0.90
1:B:89:ASN:OD1	1:D:402:VAL:N	2.04	0.90
1:H:155:GLN:HG3	1:H:451:ASN:HB3	1.54	0.90
1:J:324:ARG:NH1	1:J:324:ARG:HG2	1.75	0.90
1:K:265:GLN:CA	1:K:265:GLN:NE2	2.31	0.90
1:L:83:HIS:CB	1:L:84:ALA:HB2	2.01	0.90
1:C:483:VAL:HG23	1:C:483:VAL:O	1.70	0.90
1:G:1:MET:HB3	1:G:2:SER:CA	2.01	0.90
1:D:405:GLN:CA	1:D:405:GLN:NE2	2.30	0.90
1:J:367:ILE:N	1:J:367:ILE:HD13	1.86	0.89
1:J:84:ALA:HB2	1:J:86:ILE:HG12	1.53	0.89
2:N:226:ARG:CG	2:N:228:LEU:CD1	2.50	0.89
1:A:332:GLN:HG2	1:A:456:VAL:CG2	2.02	0.89
1:G:9:ASN:HD22	1:G:10:VAL:H	1.14	0.89
1:H:1:MET:CE	1:I:26:TRP:HB3	2.02	0.89
1:M:501:ASN:C	1:M:501:ASN:HD22	1.70	0.89
2:N:168:ASP:HB3	2:N:171:THR:OG1	1.71	0.89
1:C:413:GLU:HG3	1:C:414:GLY:H	0.74	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:140:LYS:HE2	1:J:179:GLU:CD	1.93	0.89
1:A:481:ILE:HG21	1:F:365:GLN:HG3	1.52	0.89
1:B:410:ILE:HD12	1:B:410:ILE:N	1.78	0.89
1:E:362:ASN:O	1:E:363:ASN:HB2	1.71	0.89
1:F:443:VAL:CG1	1:F:462:ILE:CD1	2.50	0.89
1:H:302:ASN:HB3	1:K:265:GLN:HG3	1.52	0.89
1:H:335:ASN:HD22	1:H:336:VAL:H	1.09	0.89
1:L:1:MET:SD	1:M:26:TRP:CD2	2.66	0.89
1:C:187:MET:O	1:C:187:MET:SD	2.30	0.89
1:D:132:ARG:HG3	1:D:132:ARG:HH11	1.38	0.89
1:J:87:THR:CG2	1:J:88:GLU:CG	2.36	0.89
1:A:135:THR:CG2	1:A:139:VAL:HG11	2.03	0.89
1:A:326:LEU:HD13	1:A:421:LEU:HD11	1.53	0.89
1:C:494:ILE:HD13	1:C:494:ILE:C	1.91	0.89
1:D:78:THR:HG23	1:D:259:SER:HG	1.11	0.89
1:I:324:ARG:HG2	1:I:324:ARG:HH11	1.38	0.89
1:M:507:TYR:CD1	1:M:508:GLY:HA3	2.05	0.89
2:N:256:LEU:HA	2:N:257:SER:HB3	0.89	0.89
1:D:357:LEU:HD12	1:D:358:ASN:CA	2.02	0.89
1:E:341:LEU:O	1:E:345:ILE:HG23	1.72	0.89
1:I:106:ILE:HD11	1:I:238:LEU:HA	1.54	0.89
1:I:430:ASP:C	1:I:431:GLU:OE2	2.11	0.89
1:K:147:GLN:HG2	1:K:205:GLU:HG2	1.53	0.89
1:B:8:LEU:HD12	1:B:8:LEU:O	1.73	0.89
1:G:376:LEU:CD1	1:G:376:LEU:N	2.35	0.89
1:H:486:LYS:HZ3	1:H:486:LYS:HB2	1.35	0.89
1:L:84:ALA:HB1	1:L:85:GLY:O	1.73	0.89
1:C:123:LEU:CD2	1:C:127:ILE:CG1	2.51	0.89
1:D:351:PHE:O	1:D:414:GLY:CA	2.19	0.89
1:L:140:LYS:HA	1:L:140:LYS:HE3	1.54	0.89
1:L:264:PHE:C	1:L:265:GLN:NE2	2.26	0.89
2:N:235:ASP:CB	2:N:236:PRO:CA	2.51	0.89
1:C:165:ASN:HB3	1:D:174:ALA:O	1.73	0.89
1:I:121:ILE:HG22	1:I:123:LEU:HD12	1.54	0.89
1:I:314:SER:CB	1:I:443:VAL:H	1.85	0.89
1:A:121:ILE:HD11	1:A:293:LEU:HG	1.53	0.88
1:D:58:SER:O	1:D:61:THR:OG1	1.91	0.88
1:J:218:GLN:O	1:J:219:ALA:HB2	1.74	0.88
1:M:341:LEU:CD1	1:M:341:LEU:C	2.40	0.88
2:N:255:THR:CG2	2:N:257:SER:OG	2.19	0.88
1:B:110:LEU:HD12	1:B:111:ASN:N	1.87	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:19:GLU:HB2	1:G:20:LEU:HA	1.55	0.88
1:G:386:ASN:HD22	1:G:386:ASN:C	1.76	0.88
1:C:304:LEU:CD1	1:C:310:SER:OG	2.21	0.88
1:H:312:PHE:CD2	1:H:312:PHE:N	2.30	0.88
1:J:84:ALA:CB	1:J:86:ILE:CG1	2.51	0.88
1:L:332:GLN:HG2	1:L:456:VAL:CG2	2.03	0.88
1:M:411:GLY:C	1:M:412:LEU:HD13	1.94	0.88
2:N:157:PRO:O	2:N:158:VAL:HG23	1.74	0.88
2:N:370:LEU:HD12	2:N:371:SER:CA	2.03	0.88
1:A:132:ARG:CG	1:A:132:ARG:HH11	1.85	0.88
1:A:158:ARG:HB3	1:A:246:ASP:HB3	1.53	0.88
1:C:316:VAL:HG23	1:C:442:GLN:OE1	1.72	0.88
1:K:324:ARG:HB2	1:K:467:ASP:OD1	1.74	0.88
1:G:194:THR:OG1	1:G:195:THR:HG23	1.72	0.88
1:B:365:GLN:NE2	1:G:295:ARG:H	1.70	0.88
1:I:437:GLY:HA2	1:I:439:PHE:CE2	2.06	0.88
1:K:222:LEU:H	1:K:222:LEU:HD23	1.37	0.88
1:K:85:GLY:CA	1:K:86:ILE:HG22	2.04	0.88
2:N:226:ARG:HG3	2:N:228:LEU:CD1	2.03	0.88
1:B:386:ASN:O	1:B:387:LYS:HD3	1.74	0.88
1:C:330:VAL:HG22	1:C:460:MET:HA	1.56	0.88
1:C:5:ALA:HB3	1:D:471:VAL:HG21	1.53	0.88
1:D:339:GLN:HB2	2:N:28:ASP:N	1.89	0.88
1:H:1:MET:SD	1:H:10:VAL:HB	2.13	0.88
1:L:21:ASN:H	1:L:21:ASN:HD22	1.19	0.88
1:K:1:MET:SD	1:L:26:TRP:CD2	2.67	0.88
1:B:190:VAL:HG21	1:B:198:ARG:CB	1.96	0.88
1:B:385:TYR:HE2	1:B:387:LYS:HB2	0.75	0.88
1:D:41:PRO:HB2	1:D:266:GLN:NE2	1.89	0.88
1:H:351:PHE:CD1	1:H:351:PHE:N	2.40	0.88
1:M:502:GLU:CD	1:M:502:GLU:C	2.30	0.88
2:N:333:TYR:HB2	2:N:334:MET:SD	2.11	0.88
1:E:231:ASN:N	1:E:231:ASN:HD22	1.68	0.88
1:C:83:HIS:HB2	1:C:254:ASN:HB3	1.56	0.88
1:C:481:ILE:O	1:M:363:ASN:ND2	2.06	0.88
1:H:481:ILE:N	1:H:481:ILE:HD12	1.85	0.88
1:J:386:ASN:HD22	1:J:386:ASN:C	1.76	0.88
1:L:436:ILE:HG23	1:L:437:GLY:HA3	1.56	0.88
1:D:501:ASN:H	1:D:501:ASN:ND2	1.71	0.88
1:E:493:ARG:HG2	1:E:493:ARG:HH11	1.37	0.88
2:N:333:TYR:HB2	2:N:334:MET:CE	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:80:ASN:HB3	1:A:258:GLY:O	1.74	0.87
1:H:343:ASN:O	1:H:347:THR:HG22	1.72	0.87
1:K:100:ALA:HB2	1:K:182:ARG:CD	2.04	0.87
1:A:89:ASN:HB3	1:A:192:ASN:HD21	1.38	0.87
1:B:90:LEU:C	1:B:90:LEU:HD12	1.92	0.87
1:D:351:PHE:HD1	1:D:351:PHE:N	1.69	0.87
1:E:254:ASN:ND2	1:E:254:ASN:H	1.67	0.87
1:I:367:ILE:HG22	1:I:368:LEU:HD12	1.56	0.87
1:J:395:VAL:HG22	1:J:450:THR:HG21	1.53	0.87
2:N:44:ILE:HB	2:N:332:ILE:HD11	1.55	0.87
1:F:364:GLN:OE1	1:F:364:GLN:HA	1.73	0.87
1:I:326:LEU:HD13	1:I:421:LEU:HD11	1.53	0.87
1:L:158:ARG:HG3	1:L:159:ASP:N	1.90	0.87
1:E:341:LEU:CD2	1:E:342:ASN:H	1.83	0.87
1:M:265:GLN:CA	1:M:265:GLN:HE21	1.87	0.87
1:M:507:TYR:CD1	1:M:508:GLY:C	2.47	0.87
1:H:140:LYS:HG2	1:H:179:GLU:CD	1.95	0.87
1:H:313:LYS:NZ	1:H:313:LYS:CB	2.30	0.87
1:B:190:VAL:HG22	1:B:198:ARG:O	1.74	0.87
1:B:365:GLN:HE22	1:G:295:ARG:H	0.90	0.87
1:E:365:GLN:CB	1:L:122:GLU:OE2	2.21	0.87
1:B:251:VAL:HG22	1:B:251:VAL:O	1.73	0.87
1:H:339:GLN:O	1:H:340:ASN:CB	2.22	0.87
1:L:154:TYR:CD2	1:L:160:ALA:HB2	2.10	0.87
1:K:179:GLU:CD	1:M:177:LEU:HD22	1.95	0.87
2:N:184:ASP:HA	2:N:225:VAL:CG1	2.04	0.87
1:B:1:MET:SD	1:B:7:PRO:HB2	2.15	0.87
1:D:252:SER:OG	1:D:253:GLY:HA2	1.72	0.87
1:E:436:ILE:HG13	1:E:437:GLY:HA3	1.54	0.87
1:G:208:PHE:HE1	1:G:214:TRP:NE1	1.72	0.87
1:I:430:ASP:OD2	1:I:490:LEU:CD1	2.22	0.87
1:L:83:HIS:CG	1:L:84:ALA:HA	2.09	0.87
2:N:104:ASP:O	2:N:107:LEU:HD13	1.74	0.87
1:G:299:GLN:OE1	1:G:335:ASN:ND2	2.08	0.86
1:J:205:GLU:OE1	1:J:232:TRP:HZ3	1.57	0.86
1:L:99:ARG:HH22	1:L:240:ARG:NH2	1.73	0.86
1:C:460:MET:HG3	1:C:461:TYR:N	1.88	0.86
1:E:293:LEU:HD22	1:E:465:VAL:HB	1.56	0.86
1:H:59:ALA:O	1:H:60:GLN:CG	2.23	0.86
1:I:350:VAL:HB	1:I:413:GLU:CB	2.05	0.86
1:I:374:GLN:HA	1:I:374:GLN:NE2	1.88	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:239:ALA:HB3	1:D:344:GLN:HE21	1.33	0.86
1:A:438:ASN:OD1	1:F:318:GLN:NE2	2.07	0.86
1:J:498:VAL:HA	1:J:499:SER:HG	1.31	0.86
1:M:237:ASN:HD22	1:M:238:LEU:H	0.88	0.86
2:N:255:THR:HG22	2:N:257:SER:OG	1.74	0.86
1:B:365:GLN:HE22	1:G:295:ARG:N	1.73	0.86
1:I:430:ASP:CG	1:I:490:LEU:HD12	1.94	0.86
1:C:84:ALA:HB1	1:C:86:ILE:CB	2.03	0.86
1:H:484:ALA:HA	1:I:1:MET:H1	1.39	0.86
1:J:260:MET:C	1:J:261:ASN:HD22	1.76	0.86
1:J:486:LYS:NZ	1:J:486:LYS:HA	1.90	0.86
1:E:303:THR:HG23	1:E:457:THR:HG22	1.58	0.86
1:F:295:ARG:HH11	1:F:295:ARG:CG	1.89	0.86
1:F:153:ASN:O	1:F:412:LEU:O	1.94	0.86
1:H:140:LYS:CG	1:H:179:GLU:OE2	2.22	0.86
1:I:441:LEU:C	1:I:441:LEU:HD13	1.91	0.86
1:B:208:PHE:CE1	1:B:214:TRP:CG	2.64	0.86
1:B:474:ASN:C	1:B:474:ASN:HD22	1.79	0.86
1:C:350:VAL:CG2	1:C:413:GLU:O	2.24	0.86
1:L:228:LEU:O	1:L:229:THR:HG22	1.76	0.86
1:E:342:ASN:O	1:E:346:THR:HG23	1.76	0.86
1:A:34:GLN:NE2	1:J:364:GLN:HB3	1.90	0.86
1:L:228:LEU:HD13	1:L:230:PHE:HE2	1.41	0.86
1:C:83:HIS:HD2	1:C:256:THR:HA	1.41	0.86
1:M:341:LEU:HD12	1:M:341:LEU:C	1.94	0.86
1:G:85:GLY:HA3	1:G:86:ILE:CG2	2.06	0.85
1:J:19:GLU:HG2	1:J:19:GLU:O	1.76	0.85
1:K:388:THR:HG21	1:M:180:LEU:HD21	1.55	0.85
2:N:170:ASN:C	2:N:170:ASN:HD22	1.78	0.85
1:C:364:GLN:HG2	1:C:367:ILE:HD11	1.58	0.85
1:C:377:TYR:HD2	1:C:377:TYR:O	1.59	0.85
1:E:322:ILE:HD13	1:E:439:PHE:CZ	2.10	0.85
1:D:342:ASN:ND2	1:D:342:ASN:C	2.30	0.85
1:E:174:ALA:O	1:F:165:ASN:HB3	1.76	0.85
1:F:3:ASN:C	1:F:3:ASN:HD22	1.77	0.85
1:G:351:PHE:HD1	1:G:351:PHE:H	1.25	0.85
1:I:55:ASN:HB2	1:I:56:PRO:CD	2.04	0.85
1:M:102:PRO:CB	1:M:241:ILE:HD11	2.02	0.85
1:M:1:MET:CG	1:M:10:VAL:HB	2.05	0.85
1:F:361:TRP:HB3	1:F:364:GLN:HB2	1.59	0.85
1:H:397:GLN:OE1	1:J:189:VAL:N	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:85:GLY:HA3	1:J:86:ILE:HG22	1.57	0.85
1:K:429:ASP:O	1:K:430:ASP:OD1	1.94	0.85
1:L:301:GLN:HE21	1:L:301:GLN:N	1.73	0.85
2:N:287:VAL:HA	2:N:288:GLY:O	1.75	0.85
1:A:507:TYR:CD1	1:A:508:GLY:HA3	2.11	0.85
1:B:1:MET:N	1:B:7:PRO:CB	2.38	0.85
1:B:1:MET:N	1:B:7:PRO:HB3	1.91	0.85
1:B:257:ILE:H	1:B:257:ILE:HD12	1.41	0.85
1:G:208:PHE:HE1	1:G:214:TRP:CD1	1.92	0.85
1:K:438:ASN:C	1:K:438:ASN:ND2	2.30	0.85
1:M:100:ALA:CB	1:M:182:ARG:HD3	2.07	0.85
1:M:485:SER:HA	1:M:486:LYS:HZ2	1.40	0.85
2:N:235:ASP:HB3	2:N:236:PRO:CA	2.06	0.85
1:C:377:TYR:CD2	1:C:377:TYR:O	2.30	0.85
1:C:488:GLU:CD	1:C:489:VAL:N	2.30	0.85
1:F:507:TYR:CE1	1:F:508:GLY:O	2.30	0.85
1:K:332:GLN:HG2	1:K:456:VAL:CG2	2.05	0.85
1:K:437:GLY:O	1:K:439:PHE:CE2	2.30	0.85
1:L:155:GLN:HA	1:L:155:GLN:HE21	1.40	0.85
2:N:271:LEU:HD12	2:N:334:MET:CG	2.05	0.85
1:B:35:VAL:O	1:B:35:VAL:HG13	1.74	0.85
1:C:26:TRP:HB3	1:D:1:MET:CE	2.06	0.85
1:D:260:MET:HG2	1:D:262:ILE:CD1	2.05	0.85
1:E:45:PHE:CD1	1:E:45:PHE:O	2.30	0.85
1:I:235:ASN:ND2	1:I:237:ASN:H	1.75	0.85
1:I:325:LYS:HZ2	1:I:327:TYR:HE2	1.24	0.85
1:J:140:LYS:HG2	1:J:179:GLU:CD	1.96	0.85
1:A:136:PRO:HD2	1:A:139:VAL:HB	1.58	0.85
1:C:217:GLU:C	1:C:218:GLN:NE2	2.30	0.85
1:E:428:ARG:HG2	1:E:428:ARG:HH11	1.39	0.85
1:I:140:LYS:HA	1:I:140:LYS:HE3	1.59	0.85
1:J:392:PHE:CD1	1:J:392:PHE:O	2.30	0.85
1:M:211:PRO:O	1:M:212:PHE:HD2	1.59	0.85
1:B:188:ASN:HD21	1:B:200:THR:HG22	1.40	0.85
1:M:438:ASN:C	1:M:439:PHE:CD2	2.50	0.85
1:A:53:ILE:HD11	1:E:41:PRO:HB3	0.86	0.84
1:B:396:THR:N	1:B:410:ILE:HD13	1.91	0.84
1:L:341:LEU:HD12	1:L:341:LEU:C	1.97	0.84
1:L:357:LEU:HD13	1:L:358:ASN:N	1.89	0.84
1:M:135:THR:HG23	1:M:386:ASN:OD1	1.77	0.84
2:N:227:PHE:CD2	2:N:229:GLY:O	2.30	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:83:HIS:CE1	1:D:256:THR:CG2	2.60	0.84
1:E:339:GLN:C	1:E:340:ASN:ND2	2.30	0.84
1:E:342:ASN:ND2	1:E:342:ASN:C	2.30	0.84
1:A:108:ASN:O	1:A:122:GLU:OE2	1.94	0.84
1:C:65:ARG:CB	1:C:213:LEU:HD23	2.07	0.84
1:D:244:HIS:HB3	1:D:346:THR:HG22	1.59	0.84
1:H:244:HIS:HB3	1:H:346:THR:HG22	1.59	0.84
1:I:328:LEU:HD12	1:I:328:LEU:N	1.92	0.84
1:I:374:GLN:HE21	1:I:374:GLN:CA	1.83	0.84
1:L:34:GLN:CG	1:L:34:GLN:O	2.24	0.84
1:H:335:ASN:ND2	1:H:335:ASN:C	2.30	0.84
1:J:322:ILE:CG2	1:J:361:TRP:HZ2	1.90	0.84
1:L:332:GLN:HG2	1:L:456:VAL:HG23	1.59	0.84
1:M:320:ASP:O	1:M:437:GLY:O	1.96	0.84
2:N:255:THR:HG23	2:N:257:SER:HA	1.59	0.84
1:B:19:GLU:HB2	1:B:20:LEU:CA	2.07	0.84
1:D:73:TYR:CE1	1:D:203:LEU:HD21	2.13	0.84
1:E:322:ILE:HG13	1:E:432:ALA:O	1.77	0.84
1:J:45:PHE:O	1:J:45:PHE:CD1	2.30	0.84
1:K:436:ILE:HG21	1:K:482:GLY:HA3	1.60	0.84
1:L:337:ILE:HD12	1:L:338:TYR:CD2	2.13	0.84
1:M:104:SER:HB2	1:M:205:GLU:OE1	1.76	0.84
1:M:386:ASN:C	1:M:386:ASN:ND2	2.30	0.84
2:N:103:PHE:CE1	2:N:131:TYR:HD1	1.96	0.84
1:A:34:GLN:HE22	1:J:364:GLN:CB	1.90	0.84
1:A:305:ALA:HB3	1:A:455:THR:CG2	2.08	0.84
1:B:363:ASN:C	1:B:364:GLN:NE2	2.30	0.84
1:C:503:LEU:HD22	1:C:503:LEU:O	1.77	0.84
1:F:173:SER:HA	1:G:164:ASN:HB2	1.57	0.84
1:F:3:ASN:ND2	1:F:3:ASN:C	2.30	0.84
1:J:341:LEU:HD22	1:J:341:LEU:O	1.77	0.84
1:A:253:GLY:HA2	1:A:254:ASN:CB	2.06	0.84
1:A:341:LEU:C	1:A:341:LEU:CD2	2.35	0.84
1:I:377:TYR:CD2	1:I:377:TYR:C	2.50	0.84
2:N:91:TYR:HH	2:N:157:PRO:HG3	1.04	0.84
1:B:224:ASN:HD22	1:B:224:ASN:N	1.76	0.84
1:B:1:MET:N	1:B:2:SER:HA	1.91	0.84
1:C:84:ALA:HB1	1:C:85:GLY:C	1.98	0.84
1:E:2:SER:O	1:E:3:ASN:CB	2.25	0.84
1:G:379:PHE:CE1	1:G:424:ASP:OD2	2.31	0.84
1:K:265:GLN:HA	1:K:265:GLN:NE2	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:ALA:HB3	1:A:344:GLN:NE2	1.91	0.84
1:B:380:SER:OG	1:B:383:ASN:N	2.11	0.84
1:C:361:TRP:HZ3	1:C:441:LEU:HD23	1.42	0.84
1:E:324:ARG:N	1:E:433:GLU:OE1	2.10	0.84
1:E:484:ALA:HA	1:F:1:MET:N	1.92	0.84
1:F:382:GLN:HG2	1:F:423:LYS:NZ	1.92	0.84
1:H:30:LYS:HD2	1:H:277:ARG:NH1	1.92	0.84
1:I:377:TYR:O	1:I:377:TYR:HD2	1.61	0.84
1:K:436:ILE:HG22	1:K:482:GLY:CA	2.08	0.84
1:C:83:HIS:C	1:C:83:HIS:ND1	2.30	0.83
1:E:441:LEU:C	1:E:441:LEU:HD23	1.98	0.83
1:I:357:LEU:C	1:I:357:LEU:CD1	2.44	0.83
1:M:85:GLY:HA2	1:M:86:ILE:CB	2.07	0.83
1:B:332:GLN:NE2	1:B:333:SER:CB	2.38	0.83
1:F:494:ILE:H	1:F:494:ILE:HD13	1.43	0.83
1:J:65:ARG:NH1	1:J:65:ARG:HG3	1.92	0.83
1:J:87:THR:HG23	1:J:88:GLU:HG3	1.59	0.83
1:B:92:GLN:HB3	1:B:95:ARG:HB2	1.57	0.83
1:B:187:MET:N	1:D:397:GLN:CD	2.31	0.83
1:B:170:VAL:HG11	1:D:398:GLN:HG3	1.61	0.83
1:F:187:MET:O	1:G:397:GLN:HG3	1.78	0.83
1:L:99:ARG:HG2	1:L:99:ARG:NH1	1.85	0.83
1:M:411:GLY:C	1:M:412:LEU:CD1	2.47	0.83
1:E:235:ASN:HD22	1:J:108:ASN:HD21	1.25	0.83
1:J:190:VAL:HG23	1:J:191:THR:HG23	1.58	0.83
1:K:437:GLY:C	1:K:439:PHE:HE2	1.81	0.83
1:L:35:VAL:CG2	1:L:274:VAL:HG23	2.06	0.83
2:N:81:ASN:ND2	2:N:103:PHE:O	2.10	0.83
1:B:212:PHE:CD1	1:B:212:PHE:N	2.30	0.83
1:D:350:VAL:HB	1:D:413:GLU:HG2	1.61	0.83
1:D:379:PHE:CD2	1:D:379:PHE:O	2.30	0.83
1:G:343:ASN:C	1:G:343:ASN:HD22	1.79	0.83
1:H:342:ASN:HD22	1:H:342:ASN:N	1.76	0.83
1:H:441:LEU:HD13	1:H:441:LEU:C	1.96	0.83
1:H:449:ASN:HD22	1:H:450:THR:N	1.76	0.83
1:H:73:TYR:CE1	1:H:203:LEU:HD21	2.14	0.83
1:I:265:GLN:O	1:I:267:PRO:HD3	1.77	0.83
1:I:499:SER:HB2	1:I:501:ASN:HD21	1.43	0.83
1:J:85:GLY:HA2	1:J:86:ILE:HG22	1.53	0.83
1:B:333:SER:CB	1:B:336:VAL:CG2	2.56	0.83
1:G:351:PHE:CE2	1:G:416:ILE:CG2	2.62	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:351:PHE:H	1:I:351:PHE:HD1	0.88	0.83
2:N:173:LYS:HD2	2:N:254:PRO:HD3	1.59	0.83
1:C:501:ASN:HD22	1:C:501:ASN:C	1.81	0.83
1:L:125:GLN:OE1	1:L:295:ARG:NH1	2.11	0.83
1:M:208:PHE:HB3	1:M:214:TRP:HE1	1.42	0.83
1:H:351:PHE:N	1:H:351:PHE:HD1	1.75	0.83
1:J:109:THR:HG23	1:J:233:VAL:HG22	1.60	0.83
1:K:140:LYS:CD	1:K:179:GLU:OE2	2.23	0.83
1:K:140:LYS:HD2	1:K:179:GLU:CD	1.98	0.83
2:N:173:LYS:CG	2:N:254:PRO:CG	2.42	0.83
1:B:363:ASN:CB	1:B:364:GLN:HE22	1.89	0.83
1:C:226:THR:CG2	1:C:475:THR:HB	2.07	0.83
1:H:8:LEU:N	1:H:8:LEU:HD23	1.92	0.83
1:E:258:GLY:CA	1:E:341:LEU:CD1	2.32	0.83
1:G:318:GLN:HA	1:G:440:ASN:CB	2.09	0.83
1:H:364:GLN:O	1:H:365:GLN:HB3	1.79	0.83
1:F:493:ARG:H	1:F:493:ARG:HD2	1.44	0.82
1:G:213:LEU:CA	1:G:214:TRP:CB	2.50	0.82
1:A:34:GLN:NE2	1:J:364:GLN:CB	2.42	0.82
1:L:430:ASP:OD2	1:L:489:VAL:C	2.18	0.82
1:C:249:ASN:ND2	1:C:249:ASN:C	2.30	0.82
1:C:367:ILE:HD13	1:C:367:ILE:N	1.94	0.82
1:L:430:ASP:OD2	1:L:490:LEU:N	2.11	0.82
2:N:183:TYR:O	2:N:225:VAL:HG11	1.79	0.82
1:B:333:SER:CB	1:B:336:VAL:HG22	2.09	0.82
1:M:22:ASN:HD22	1:M:22:ASN:N	1.77	0.82
1:A:380:SER:HA	1:A:382:GLN:H	1.43	0.82
1:H:345:ILE:HG12	1:H:346:THR:HG23	1.59	0.82
1:B:150:PHE:CE1	1:B:179:GLU:OE2	2.32	0.82
1:C:89:ASN:ND2	1:C:192:ASN:HD22	1.77	0.82
1:D:208:PHE:HE1	1:D:214:TRP:CG	1.97	0.82
1:D:5:ALA:CB	1:D:6:ILE:HD13	2.08	0.82
1:H:218:GLN:HA	1:H:218:GLN:OE1	1.77	0.82
1:H:430:ASP:OD1	1:H:490:LEU:CA	2.26	0.82
1:I:41:PRO:HB2	1:I:266:GLN:HE22	0.76	0.82
2:N:185:ARG:HG3	2:N:224:ASP:OD1	1.80	0.82
1:D:106:ILE:HD11	1:D:238:LEU:HA	1.62	0.82
2:N:168:ASP:HB3	2:N:171:THR:CB	2.09	0.82
2:N:17:TYR:N	2:N:17:TYR:HD2	1.76	0.82
1:G:337:ILE:O	1:G:338:TYR:HD2	1.62	0.82
1:H:224:ASN:HD22	1:H:224:ASN:N	1.77	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:26:TRP:HB3	1:J:1:MET:CE	2.08	0.82
2:N:171:THR:N	2:N:172:GLU:HA	1.92	0.82
2:N:226:ARG:HG2	2:N:228:LEU:HD13	1.62	0.82
1:G:374:GLN:HE21	1:G:375:ASN:CA	1.92	0.82
1:H:282:ILE:HD12	1:H:283:PRO:HD2	1.59	0.82
1:I:173:SER:C	1:J:164:ASN:OD1	2.18	0.82
1:J:108:ASN:CG	1:J:235:ASN:HD21	1.82	0.82
1:M:134:HIS:HD2	1:M:507:TYR:CD2	1.98	0.82
1:B:429:ASP:O	1:B:430:ASP:HB3	1.78	0.82
1:M:501:ASN:C	1:M:501:ASN:ND2	2.30	0.82
1:D:239:ALA:CB	1:D:344:GLN:NE2	2.41	0.81
1:G:367:ILE:HG22	1:G:368:LEU:CD1	2.09	0.81
1:K:61:THR:HG23	1:K:275:THR:HG22	1.60	0.81
1:L:249:ASN:HD22	1:L:250:ASP:H	1.24	0.81
1:K:179:GLU:CD	1:M:177:LEU:CD2	2.46	0.81
1:M:428:ARG:HG3	1:M:429:ASP:N	1.93	0.81
2:N:173:LYS:HG3	2:N:254:PRO:HG3	1.57	0.81
1:A:108:ASN:C	1:A:108:ASN:ND2	2.30	0.81
1:C:251:VAL:O	1:C:252:SER:HB2	1.80	0.81
1:F:382:GLN:HE21	1:F:423:LYS:HZ1	0.83	0.81
1:F:430:ASP:OD1	1:F:490:LEU:HD13	1.80	0.81
1:L:439:PHE:H	1:L:439:PHE:HD2	1.26	0.81
1:K:398:GLN:HG3	1:M:170:VAL:HG11	1.61	0.81
1:A:297:THR:HG23	1:F:302:ASN:HD21	1.43	0.81
1:I:110:LEU:HD23	1:I:111:ASN:H	1.02	0.81
1:J:299:GLN:NE2	1:J:335:ASN:HD22	1.74	0.81
1:L:15:GLU:HG3	1:L:16:PRO:CD	2.10	0.81
1:M:140:LYS:HD2	1:M:179:GLU:HG2	1.60	0.81
2:N:109:SER:CB	2:N:110:PRO:C	2.49	0.81
2:N:84:ILE:HD12	2:N:198:ASN:HD22	1.45	0.81
1:B:192:ASN:C	1:B:192:ASN:ND2	2.30	0.81
1:H:206:GLN:CG	1:H:208:PHE:HE2	1.92	0.81
1:I:441:LEU:HD13	1:I:442:GLN:CA	2.08	0.81
1:K:411:GLY:O	1:K:412:LEU:HD23	1.78	0.81
1:M:72:PRO:HG2	1:M:265:GLN:HB2	1.61	0.81
1:B:110:LEU:HD13	1:B:111:ASN:N	1.94	0.81
1:C:95:ARG:HD2	1:C:248:THR:HG23	1.63	0.81
1:F:382:GLN:CD	1:F:423:LYS:NZ	2.34	0.81
1:I:100:ALA:HB2	1:I:182:ARG:HD3	1.62	0.81
1:I:89:ASN:HD21	1:J:401:GLY:HA2	1.45	0.81
1:L:297:THR:HB	1:L:461:TYR:CE1	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:107:LEU:HD12	2:N:107:LEU:N	1.94	0.81
2:N:91:TYR:CE2	2:N:157:PRO:HD3	2.14	0.81
1:A:135:THR:CG2	1:A:139:VAL:CG1	2.59	0.81
1:C:209:LEU:O	1:C:209:LEU:HG	1.80	0.81
1:C:89:ASN:ND2	1:C:193:THR:HA	1.95	0.81
1:D:341:LEU:C	1:D:341:LEU:HD23	2.00	0.81
1:D:377:TYR:HD2	1:D:392:PHE:CD2	1.97	0.81
1:F:188:ASN:ND2	1:F:188:ASN:C	2.31	0.81
1:G:85:GLY:CA	1:G:86:ILE:CG2	2.57	0.81
1:I:322:ILE:HD11	1:I:432:ALA:O	1.80	0.81
1:J:413:GLU:HG2	1:J:414:GLY:H	1.43	0.81
1:L:140:LYS:HG2	1:L:179:GLU:OE2	1.81	0.81
1:L:353:GLN:HE21	1:L:355:ASN:HD21	1.28	0.81
1:A:380:SER:OG	1:A:384:GLY:N	2.13	0.81
1:B:192:ASN:HD22	1:B:192:ASN:C	1.80	0.81
1:D:286:ILE:HD12	1:D:287:THR:N	1.94	0.81
1:H:407:THR:HG21	1:J:189:VAL:HG12	1.61	0.81
1:J:140:LYS:HG2	1:J:179:GLU:CG	2.11	0.81
1:L:337:ILE:HD11	1:L:338:TYR:CE2	2.15	0.81
2:N:255:THR:HG23	2:N:257:SER:HB2	1.22	0.81
1:C:324:ARG:HG2	1:C:324:ARG:NH1	1.83	0.81
1:F:501:ASN:HD22	1:F:501:ASN:N	1.78	0.81
1:G:109:THR:HG22	1:G:110:LEU:N	1.94	0.81
1:B:305:ALA:HB2	1:B:455:THR:HA	1.61	0.81
1:D:171:PHE:O	1:D:171:PHE:CD1	2.34	0.81
1:D:83:HIS:NE2	1:D:256:THR:HG22	1.94	0.81
1:D:48:ASN:ND2	2:N:348:GLN:CB	2.41	0.81
1:G:39:PRO:HD2	1:L:49:GLN:HE21	1.40	0.81
1:K:469:THR:HG21	1:L:4:SER:HB2	1.62	0.81
1:M:265:GLN:HE21	1:M:265:GLN:N	1.79	0.81
1:M:265:GLN:NE2	1:M:265:GLN:N	2.29	0.81
2:N:173:LYS:CD	2:N:254:PRO:HD3	2.09	0.81
2:N:186:THR:CG2	2:N:226:ARG:CD	2.16	0.81
1:C:377:TYR:CE2	1:C:381:VAL:HG11	2.15	0.81
1:D:85:GLY:HA2	1:D:86:ILE:CB	2.11	0.81
1:F:264:PHE:O	1:F:265:GLN:NE2	2.04	0.81
1:H:224:ASN:H	1:H:224:ASN:HD22	1.29	0.81
1:J:324:ARG:CG	1:J:324:ARG:HH11	1.94	0.81
1:K:248:THR:O	1:K:249:ASN:HB3	1.80	0.81
1:A:305:ALA:HB1	1:A:306:PRO:CA	2.10	0.81
1:G:351:PHE:CD1	1:G:351:PHE:N	2.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:350:VAL:CG1	1:H:413:GLU:HB3	2.09	0.81
1:J:1:MET:SD	1:J:10:VAL:HG13	2.21	0.81
1:K:495:THR:HG23	1:L:11:VAL:HB	1.61	0.81
1:M:208:PHE:CB	1:M:214:TRP:HE1	1.93	0.81
1:B:164:ASN:ND2	1:C:173:SER:C	2.34	0.80
1:B:190:VAL:HG23	1:B:198:ARG:HB3	1.59	0.80
1:G:1:MET:H2	1:G:2:SER:HB3	1.45	0.80
1:G:340:ASN:HD21	1:G:342:ASN:ND2	1.79	0.80
1:H:345:ILE:CG1	1:H:346:THR:CG2	2.59	0.80
1:H:26:TRP:HB3	1:J:1:MET:HE1	1.61	0.80
1:K:264:PHE:C	1:K:265:GLN:NE2	2.34	0.80
1:G:58:SER:OG	1:L:116:GLY:HA2	1.81	0.80
1:B:228:LEU:HD13	1:B:230:PHE:CE2	2.15	0.80
1:B:358:ASN:OD1	1:B:359:LEU:N	2.14	0.80
1:C:412:LEU:HD12	1:C:413:GLU:HB3	1.63	0.80
1:M:208:PHE:CG	1:M:214:TRP:NE1	2.50	0.80
1:M:502:GLU:O	1:M:505:ARG:HD2	1.82	0.80
2:N:171:THR:OG1	2:N:173:LYS:N	2.14	0.80
1:E:505:ARG:HH11	1:E:505:ARG:HG2	1.46	0.80
1:J:60:GLN:O	1:J:276:PRO:HD2	1.82	0.80
1:L:364:GLN:NE2	1:L:365:GLN:N	2.30	0.80
1:L:429:ASP:OD2	1:L:430:ASP:CA	2.30	0.80
1:C:237:ASN:HD21	1:C:344:GLN:HE22	1.28	0.80
1:C:488:GLU:C	1:C:488:GLU:CD	2.39	0.80
1:E:127:ILE:HG23	1:E:128:HIS:N	1.96	0.80
1:A:53:ILE:CD1	1:E:41:PRO:CB	2.35	0.80
1:G:312:PHE:CA	1:G:313:LYS:HB2	2.07	0.80
1:G:341:LEU:HD12	1:G:345:ILE:CG2	2.12	0.80
1:M:437:GLY:CA	1:M:439:PHE:CE2	2.62	0.80
1:M:61:THR:CG2	1:M:273:PHE:HB3	2.11	0.80
1:C:313:LYS:NZ	1:C:314:SER:N	2.30	0.80
1:C:402:VAL:HA	1:D:88:GLU:OE1	1.81	0.80
1:F:265:GLN:NE2	1:F:265:GLN:N	2.30	0.80
1:G:336:VAL:HA	1:G:339:GLN:HE21	1.46	0.80
1:J:84:ALA:CB	1:J:86:ILE:CB	2.33	0.80
1:K:26:TRP:HB3	1:M:1:MET:CE	2.11	0.80
1:M:341:LEU:O	1:M:341:LEU:CD1	2.30	0.80
1:B:224:ASN:ND2	1:B:224:ASN:N	2.30	0.80
1:C:326:LEU:O	1:C:327:TYR:HD1	1.65	0.80
1:C:153:ASN:O	1:C:412:LEU:HD11	1.80	0.80
1:C:85:GLY:O	1:C:86:ILE:HG22	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:357:LEU:O	1:I:357:LEU:CD1	2.30	0.80
1:K:60:GLN:NE2	1:K:60:GLN:N	2.30	0.80
2:N:179:GLN:CA	2:N:180:ALA:HB3	2.12	0.80
1:B:89:ASN:OD1	1:D:401:GLY:C	2.19	0.80
1:E:45:PHE:HD1	1:E:45:PHE:O	1.64	0.80
1:G:429:ASP:O	1:G:430:ASP:HB2	1.79	0.80
1:G:85:GLY:CA	1:G:86:ILE:CB	2.59	0.80
1:H:350:VAL:HG11	1:H:413:GLU:HB3	1.63	0.80
1:H:59:ALA:O	1:H:60:GLN:NE2	2.15	0.80
1:J:207:VAL:CG1	1:J:207:VAL:O	2.30	0.80
1:A:254:ASN:C	1:A:254:ASN:ND2	2.30	0.80
1:A:61:THR:OG1	1:A:274:VAL:O	1.98	0.80
1:C:60:GLN:OE1	1:C:60:GLN:CA	2.30	0.80
1:H:428:ARG:CG	1:H:431:GLU:OE1	2.30	0.80
1:I:106:ILE:CD1	1:I:238:LEU:HA	2.12	0.80
1:J:499:SER:O	1:J:502:GLU:HB3	1.82	0.80
1:K:438:ASN:HD22	1:K:438:ASN:C	1.85	0.80
1:M:503:LEU:CD2	1:M:503:LEU:O	2.30	0.80
2:N:61:PRO:HB3	2:N:357:ARG:NH1	1.95	0.80
1:C:140:LYS:HG3	1:C:179:GLU:OE1	1.82	0.80
1:C:226:THR:HG21	1:C:475:THR:CB	2.08	0.80
1:G:73:TYR:HD2	1:G:75:ILE:CD1	1.94	0.80
1:G:85:GLY:CA	1:G:86:ILE:HB	2.10	0.80
1:I:265:GLN:NE2	1:I:265:GLN:N	2.30	0.80
1:J:134:HIS:C	1:J:135:THR:HG23	2.03	0.80
1:M:334:ASP:O	1:M:337:ILE:CG1	2.27	0.80
1:A:250:ASP:O	1:A:251:VAL:CG1	2.30	0.80
1:C:350:VAL:HG23	1:C:413:GLU:O	1.82	0.80
1:C:501:ASN:ND2	1:C:502:GLU:N	2.30	0.80
1:K:1:MET:HE2	1:L:26:TRP:HB3	1.61	0.80
2:N:75:TYR:HA	2:N:76:PRO:C	2.02	0.80
1:C:92:GLN:NE2	1:C:248:THR:CG2	2.44	0.79
1:D:342:ASN:ND2	1:D:343:ASN:N	2.30	0.79
1:D:501:ASN:N	1:D:501:ASN:ND2	2.30	0.79
1:F:208:PHE:O	1:F:209:LEU:CD1	2.30	0.79
1:H:305:ALA:HB3	1:H:455:THR:CG2	2.11	0.79
1:K:436:ILE:CD1	1:K:436:ILE:O	2.30	0.79
1:L:265:GLN:N	1:L:265:GLN:NE2	2.30	0.79
1:L:83:HIS:CD2	1:L:85:GLY:HA3	2.16	0.79
1:B:332:GLN:CG	1:B:333:SER:OG	2.30	0.79
1:H:30:LYS:HD2	1:H:277:ARG:HH11	1.44	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:99:ARG:HH12	1:H:240:ARG:NH2	1.80	0.79
1:I:351:PHE:N	1:I:351:PHE:HD1	1.73	0.79
1:M:386:ASN:HD21	1:M:387:LYS:CD	1.91	0.79
1:C:313:LYS:NZ	1:C:313:LYS:HB3	1.92	0.79
1:E:73:TYR:HE1	1:E:201:GLY:N	1.81	0.79
1:F:188:ASN:C	1:F:188:ASN:HD22	1.86	0.79
1:H:340:ASN:O	1:H:344:GLN:CG	2.30	0.79
1:I:62:VAL:HA	1:I:223:ALA:HB3	1.65	0.79
1:K:95:ARG:NH1	1:K:95:ARG:HG2	1.91	0.79
1:L:192:ASN:C	1:L:192:ASN:HD22	1.85	0.79
1:B:35:VAL:CG1	1:B:35:VAL:O	2.30	0.79
1:D:342:ASN:O	1:D:345:ILE:HG23	1.82	0.79
1:E:433:GLU:CA	1:E:433:GLU:OE2	2.30	0.79
1:G:378:ASP:O	1:G:381:VAL:CG1	2.30	0.79
1:G:416:ILE:O	1:G:416:ILE:HG13	1.79	0.79
1:G:87:THR:CB	1:G:88:GLU:OE2	2.30	0.79
1:B:166:ASN:OD1	1:B:167:PRO:CD	2.30	0.79
1:B:332:GLN:HB2	1:B:456:VAL:HG21	1.62	0.79
1:D:436:ILE:HG12	1:D:437:GLY:HA2	1.64	0.79
1:F:3:ASN:HD22	1:F:4:SER:N	1.80	0.79
1:I:262:ILE:CG2	1:I:263:SER:H	1.95	0.79
1:K:209:LEU:CD1	1:K:210:PRO:O	2.30	0.79
1:K:224:ASN:HD22	1:K:224:ASN:N	1.77	0.79
1:M:194:THR:O	1:M:195:THR:CG2	2.30	0.79
2:N:180:ALA:CB	2:N:246:PHE:HA	2.11	0.79
1:C:244:HIS:CB	1:C:345:ILE:HD11	2.13	0.79
1:D:110:LEU:CD1	1:D:209:LEU:CD2	2.60	0.79
1:D:380:SER:OG	1:D:383:ASN:CB	2.30	0.79
1:G:194:THR:O	1:G:195:THR:CG2	2.30	0.79
1:G:337:ILE:O	1:G:337:ILE:HG12	1.82	0.79
1:H:484:ALA:HA	1:I:1:MET:N	1.97	0.79
1:I:147:GLN:HG2	1:I:205:GLU:HA	1.65	0.79
1:L:249:ASN:ND2	1:L:250:ASP:N	2.30	0.79
1:D:239:ALA:HB3	1:D:344:GLN:HE22	1.47	0.79
1:D:304:LEU:HD23	1:D:449:ASN:HB2	1.65	0.79
1:E:362:ASN:HD22	1:E:362:ASN:N	1.78	0.79
1:E:437:GLY:O	1:E:438:ASN:HB3	1.81	0.79
1:F:296:TYR:HD2	1:F:296:TYR:N	1.81	0.79
1:F:365:GLN:CA	1:F:365:GLN:OE1	2.31	0.79
1:G:87:THR:O	1:G:88:GLU:CG	2.30	0.79
1:H:179:GLU:OE1	1:J:177:LEU:HD23	1.79	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:46:SER:OG	1:J:297:THR:HG23	1.82	0.79
1:L:341:LEU:O	1:L:341:LEU:CD1	2.30	0.79
1:L:87:THR:O	1:L:88:GLU:CG	2.30	0.79
1:M:33:GLN:OE1	1:M:33:GLN:N	2.14	0.79
1:A:61:THR:O	1:A:61:THR:HG23	1.82	0.79
1:B:108:ASN:ND2	1:B:109:THR:HG22	1.98	0.79
1:C:123:LEU:HD21	1:C:127:ILE:CG1	2.07	0.79
1:D:251:VAL:O	1:D:251:VAL:CG2	2.30	0.79
1:E:342:ASN:O	1:E:346:THR:CG2	2.30	0.79
1:E:11:VAL:HG22	1:F:27:VAL:CG2	2.13	0.79
1:F:409:VAL:C	1:F:410:ILE:HD13	2.03	0.79
1:H:336:VAL:HG22	1:H:337:ILE:H	1.48	0.79
1:I:95:ARG:HG3	1:I:95:ARG:HH11	1.48	0.79
1:L:449:ASN:HD22	1:L:450:THR:N	1.81	0.79
1:A:332:GLN:HG2	1:A:456:VAL:HG21	1.63	0.79
1:B:251:VAL:CG2	1:B:251:VAL:O	2.30	0.79
1:B:88:GLU:OE2	1:B:88:GLU:CA	2.30	0.79
1:D:505:ARG:HH11	1:D:505:ARG:CG	1.96	0.79
1:E:339:GLN:HB2	1:E:340:ASN:HD21	1.46	0.79
1:E:340:ASN:N	1:E:340:ASN:ND2	2.30	0.79
1:G:198:ARG:HG2	1:G:198:ARG:HH11	1.47	0.79
1:G:324:ARG:CG	1:G:324:ARG:HH11	1.96	0.79
1:G:342:ASN:ND2	1:G:343:ASN:N	2.30	0.79
1:G:505:ARG:HH11	1:G:505:ARG:HB2	1.48	0.79
1:I:191:THR:HG22	1:I:197:ALA:HA	1.64	0.79
1:K:88:GLU:O	1:K:194:THR:HG22	1.82	0.79
1:K:87:THR:O	1:K:88:GLU:HG2	1.82	0.79
1:B:339:GLN:O	1:B:340:ASN:HB2	1.81	0.79
1:B:88:GLU:OE2	1:B:88:GLU:HA	1.83	0.79
1:K:132:ARG:NE	1:K:413:GLU:OE1	2.15	0.79
1:L:217:GLU:O	1:L:218:GLN:CG	2.30	0.79
1:B:209:LEU:CD2	1:B:209:LEU:C	2.41	0.78
1:C:362:ASN:ND2	1:C:362:ASN:H	1.81	0.78
1:D:500:TYR:O	1:D:504:GLN:HG2	1.81	0.78
1:G:194:THR:C	1:G:195:THR:CG2	2.48	0.78
1:G:343:ASN:ND2	1:G:344:GLN:N	2.30	0.78
1:I:491:ASN:C	1:I:491:ASN:ND2	2.30	0.78
1:J:134:HIS:O	1:J:135:THR:CG2	2.30	0.78
1:A:111:ASN:HB3	1:A:120:ASN:HB2	1.63	0.78
1:G:100:ALA:HB2	1:G:182:ARG:HD2	1.65	0.78
1:K:34:GLN:OE1	1:K:34:GLN:HA	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:364:GLN:NE2	1:L:365:GLN:H	1.80	0.78
1:K:35:VAL:HG21	1:M:17:ARG:HH22	1.47	0.78
2:N:170:ASN:C	2:N:170:ASN:ND2	2.36	0.78
2:N:36:PHE:CZ	2:N:335:VAL:HG12	2.15	0.78
1:B:190:VAL:HG23	1:B:198:ARG:CB	2.12	0.78
1:B:194:THR:O	1:B:195:THR:CG2	2.30	0.78
1:A:481:ILE:CG2	1:F:365:GLN:HB3	2.03	0.78
1:I:189:VAL:O	1:I:189:VAL:CG1	2.30	0.78
1:I:62:VAL:HA	1:I:223:ALA:CB	2.14	0.78
1:K:265:GLN:N	1:K:265:GLN:NE2	2.30	0.78
1:L:337:ILE:HD12	1:L:338:TYR:HD2	1.48	0.78
1:M:301:GLN:N	1:M:301:GLN:NE2	2.30	0.78
1:M:386:ASN:HD22	1:M:386:ASN:C	1.84	0.78
1:B:188:ASN:ND2	1:B:200:THR:HG22	1.99	0.78
1:D:353:GLN:HG2	1:D:448:THR:HG22	1.64	0.78
1:F:324:ARG:NH1	1:F:324:ARG:HG2	1.97	0.78
1:I:325:LYS:HZ1	1:I:327:TYR:HE2	1.26	0.78
1:I:484:ALA:HA	1:J:1:MET:N	1.98	0.78
1:K:264:PHE:C	1:K:265:GLN:HE21	1.86	0.78
1:F:210:PRO:HB2	1:F:211:PRO:CD	2.11	0.78
1:F:382:GLN:HG2	1:F:423:LYS:HZ2	1.46	0.78
1:I:99:ARG:HH11	1:I:99:ARG:HG2	1.47	0.78
1:L:87:THR:O	1:L:88:GLU:CB	2.30	0.78
1:M:365:GLN:NE2	1:M:366:GLY:N	2.30	0.78
1:A:325:LYS:NZ	1:A:327:TYR:HE2	1.80	0.78
1:D:258:GLY:O	1:D:259:SER:HB3	1.81	0.78
1:E:323:PRO:HD2	1:E:421:LEU:HD22	1.66	0.78
1:H:208:PHE:O	1:H:209:LEU:CD1	2.31	0.78
1:I:83:HIS:CD2	1:I:86:ILE:HG23	2.18	0.78
1:B:88:GLU:N	1:B:88:GLU:CD	2.33	0.78
1:G:351:PHE:HD1	1:G:351:PHE:N	1.79	0.78
1:G:351:PHE:CD2	1:G:416:ILE:HG22	2.19	0.78
1:H:108:ASN:HA	1:H:235:ASN:OD1	1.84	0.78
1:H:350:VAL:HG11	1:H:413:GLU:CB	2.12	0.78
2:N:17:TYR:CD2	2:N:17:TYR:N	2.49	0.78
2:N:84:ILE:C	2:N:85:TYR:HD2	1.87	0.78
1:B:35:VAL:CG2	1:B:274:VAL:HG22	2.14	0.78
1:D:239:ALA:CB	1:D:344:GLN:HE21	1.97	0.78
1:D:507:TYR:CE2	1:D:508:GLY:O	2.36	0.78
1:G:103:ILE:HB	1:G:205:GLU:HG3	1.66	0.78
1:G:376:LEU:HA	1:G:379:PHE:HD2	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:222:LEU:HD23	1:M:222:LEU:H	1.48	0.78
1:M:485:SER:HA	1:M:486:LYS:NZ	1.99	0.78
2:N:226:ARG:CG	2:N:228:LEU:HD13	2.14	0.78
2:N:173:LYS:HG2	2:N:254:PRO:HD3	1.64	0.78
1:D:342:ASN:HA	1:D:345:ILE:CG2	2.13	0.78
1:E:158:ARG:HH11	1:E:158:ARG:CB	1.97	0.78
1:F:364:GLN:CA	1:F:364:GLN:OE1	2.30	0.78
1:I:194:THR:O	1:I:195:THR:CG2	2.30	0.78
1:L:43:THR:O	1:L:44:SER:CB	2.32	0.78
1:M:22:ASN:ND2	1:M:22:ASN:N	2.30	0.78
1:C:209:LEU:CD1	1:C:210:PRO:O	2.30	0.78
1:F:1:MET:SD	1:F:10:VAL:HB	2.24	0.78
1:F:325:LYS:HZ2	1:F:420:GLU:HG2	1.49	0.78
1:H:17:ARG:NH1	1:H:17:ARG:HG2	1.95	0.78
1:I:235:ASN:C	1:I:235:ASN:HD22	1.87	0.78
1:I:377:TYR:HE1	1:I:389:TRP:HB2	1.48	0.78
1:J:84:ALA:HB1	1:J:86:ILE:HB	0.78	0.78
1:C:478:MET:CE	1:L:34:GLN:HE22	1.96	0.78
1:B:192:ASN:ND2	1:B:193:THR:N	2.30	0.77
1:C:99:ARG:CD	1:C:243:SER:HB3	2.14	0.77
1:H:332:GLN:HG2	1:H:456:VAL:HG23	1.66	0.77
1:H:441:LEU:H	1:H:441:LEU:HD12	1.48	0.77
1:H:486:LYS:O	1:H:489:VAL:HG12	1.84	0.77
1:L:228:LEU:CD1	1:L:230:PHE:HE2	1.97	0.77
1:M:209:LEU:HD12	1:M:210:PRO:CA	2.14	0.77
1:C:218:GLN:N	1:C:218:GLN:HE21	1.83	0.77
1:E:3:ASN:ND2	1:E:4:SER:N	2.33	0.77
1:E:74:ASP:O	1:E:75:ILE:HG13	1.84	0.77
1:F:396:THR:HG23	1:F:412:LEU:HD22	1.66	0.77
2:N:253:TYR:N	2:N:254:PRO:HD2	1.96	0.77
1:D:71:VAL:HB	1:D:267:PRO:HB3	1.65	0.77
1:J:332:GLN:HG2	1:J:456:VAL:HG23	1.65	0.77
1:L:92:GLN:HG3	1:L:93:PRO:HD2	1.66	0.77
1:H:345:ILE:CG1	1:H:346:THR:HG23	2.14	0.77
1:L:187:MET:SD	1:L:199:ILE:HD13	2.24	0.77
1:C:490:LEU:O	1:C:490:LEU:CD1	2.30	0.77
1:D:500:TYR:HA	1:D:503:LEU:HG	1.66	0.77
1:E:286:ILE:HD13	1:E:287:THR:H	1.49	0.77
1:G:342:ASN:ND2	1:G:343:ASN:H	1.80	0.77
1:G:377:TYR:CE1	1:G:389:TRP:HB2	2.20	0.77
1:G:351:PHE:CE2	1:G:416:ILE:HG22	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:328:LEU:CD2	1:H:462:ILE:CD1	2.59	0.77
1:J:45:PHE:CG	1:J:45:PHE:O	2.37	0.77
1:A:341:LEU:HD13	1:A:341:LEU:C	1.93	0.77
1:B:228:LEU:HD11	1:B:230:PHE:CZ	2.19	0.77
1:C:95:ARG:HH11	1:C:95:ARG:CG	1.98	0.77
1:D:83:HIS:NE2	1:D:256:THR:CG2	2.48	0.77
1:F:382:GLN:CG	1:F:423:LYS:NZ	2.48	0.77
1:G:209:LEU:HD21	1:G:212:PHE:HD2	1.49	0.77
1:H:153:ASN:HD22	1:H:154:TYR:H	1.31	0.77
1:I:262:ILE:HG22	1:I:263:SER:N	1.95	0.77
1:J:205:GLU:OE2	1:J:232:TRP:CH2	2.36	0.77
1:M:386:ASN:C	1:M:387:LYS:HD3	2.04	0.77
2:N:84:ILE:O	2:N:85:TYR:HD2	1.68	0.77
1:C:249:ASN:HD22	1:C:249:ASN:C	1.86	0.77
1:D:337:ILE:HG12	1:D:337:ILE:O	1.82	0.77
1:E:224:ASN:H	1:E:224:ASN:ND2	1.81	0.77
1:E:365:GLN:HB3	1:L:122:GLU:CD	2.04	0.77
1:G:209:LEU:HD21	1:G:212:PHE:CD2	2.19	0.77
1:I:452:GLN:HA	1:I:452:GLN:HE21	1.49	0.77
1:K:85:GLY:HA2	1:K:86:ILE:HB	0.80	0.77
1:M:437:GLY:HA3	1:M:439:PHE:CE2	2.19	0.77
2:N:173:LYS:CG	2:N:254:PRO:HD3	2.13	0.77
1:D:48:ASN:HD22	2:N:348:GLN:CG	1.98	0.77
1:B:1:MET:H3	1:B:7:PRO:CB	1.96	0.77
1:B:92:GLN:CB	1:B:95:ARG:HB2	2.15	0.77
1:D:377:TYR:CD2	1:D:392:PHE:CD2	2.73	0.77
1:H:351:PHE:HB2	1:H:414:GLY:O	1.83	0.77
1:K:416:ILE:O	1:K:416:ILE:HG12	1.83	0.77
1:L:170:VAL:HG12	1:L:171:PHE:H	1.48	0.77
1:L:1:MET:N	1:L:10:VAL:HG12	1.98	0.77
2:N:91:TYR:CZ	2:N:157:PRO:CD	2.67	0.77
1:B:396:THR:CB	1:B:410:ILE:HD13	2.15	0.77
1:C:361:TRP:CD1	1:C:362:ASN:ND2	2.53	0.77
1:D:257:ILE:O	1:D:257:ILE:CD1	2.32	0.77
1:G:196:THR:HG23	1:G:197:ALA:N	1.98	0.77
1:I:336:VAL:HG22	1:I:337:ILE:N	1.98	0.77
1:J:299:GLN:HE21	1:J:335:ASN:HD21	1.31	0.77
1:L:228:LEU:HD22	1:L:229:THR:H	1.50	0.77
1:M:140:LYS:CG	1:M:179:GLU:OE2	2.33	0.77
2:N:168:ASP:HB3	2:N:171:THR:HG21	1.65	0.77
2:N:226:ARG:CG	2:N:228:LEU:HD12	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:412:LEU:O	1:A:413:GLU:HG3	1.85	0.77
1:B:322:ILE:HD11	1:B:431:GLU:OE1	1.83	0.77
1:E:152:ASP:OD1	1:E:348:PRO:HB3	1.85	0.77
1:E:96:ASP:CG	1:E:244:HIS:HA	2.04	0.77
1:G:282:ILE:HD12	1:G:283:PRO:HD2	1.67	0.77
1:H:208:PHE:O	1:H:209:LEU:HD13	1.85	0.77
1:H:336:VAL:HG22	1:H:337:ILE:N	2.00	0.77
1:J:436:ILE:HG13	1:J:437:GLY:CA	2.14	0.77
1:L:324:ARG:NH1	1:L:324:ARG:HG2	1.88	0.77
1:L:357:LEU:O	1:L:357:LEU:HD12	1.84	0.77
1:H:365:GLN:HE21	1:L:370:GLY:CA	1.98	0.77
2:N:256:LEU:CD2	2:N:307:PRO:HG3	1.94	0.77
1:B:187:MET:H	1:D:397:GLN:NE2	1.83	0.76
1:C:313:LYS:C	1:C:313:LYS:NZ	2.39	0.76
1:C:155:GLN:HB3	1:C:451:ASN:HB3	1.66	0.76
1:C:76:THR:O	1:C:260:MET:HB2	1.85	0.76
1:D:134:HIS:CE1	1:D:508:GLY:C	2.58	0.76
1:E:342:ASN:HD22	1:E:342:ASN:C	1.87	0.76
1:H:305:ALA:HB3	1:H:455:THR:HG22	1.66	0.76
1:I:1:MET:HE3	1:J:26:TRP:HB3	1.67	0.76
1:K:158:ARG:CB	1:K:158:ARG:HH11	1.98	0.76
1:L:439:PHE:CD2	1:L:439:PHE:N	2.52	0.76
1:C:376:LEU:HD23	1:C:379:PHE:HZ	1.49	0.76
1:B:2:SER:O	1:C:483:VAL:O	2.03	0.76
1:E:158:ARG:HH11	1:E:158:ARG:CG	1.98	0.76
1:H:474:ASN:OD1	1:H:475:THR:HB	1.85	0.76
1:I:340:ASN:HD21	1:I:343:ASN:HB3	0.64	0.76
1:K:179:GLU:OE2	1:M:177:LEU:HD23	1.81	0.76
1:M:61:THR:HG21	1:M:273:PHE:HB3	1.67	0.76
1:M:362:ASN:H	1:M:362:ASN:HD22	1.32	0.76
1:C:133:TYR:OH	1:C:418:CYS:HB3	1.85	0.76
1:D:336:VAL:HG22	1:D:337:ILE:H	1.48	0.76
1:D:379:PHE:HE1	1:D:424:ASP:HB3	1.49	0.76
1:J:1:MET:HG3	1:J:10:VAL:CG2	2.15	0.76
1:M:339:GLN:O	1:M:340:ASN:HB2	1.83	0.76
2:N:227:PHE:HZ	2:N:232:TYR:CE2	2.02	0.76
1:A:253:GLY:CA	1:A:254:ASN:OD1	2.31	0.76
1:D:343:ASN:ND2	1:D:344:GLN:H	1.65	0.76
1:M:59:ALA:O	1:M:60:GLN:CB	2.33	0.76
1:F:330:VAL:HG22	1:F:460:MET:HG2	1.68	0.76
1:G:87:THR:HB	1:G:88:GLU:OE2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:78:THR:HG22	1:H:259:SER:O	1.85	0.76
1:A:380:SER:HA	1:A:382:GLN:N	1.99	0.76
1:A:490:LEU:HD22	1:A:491:ASN:ND2	2.00	0.76
1:J:84:ALA:HB1	1:J:85:GLY:HA2	1.66	0.76
1:L:249:ASN:HD22	1:L:250:ASP:N	1.83	0.76
1:F:365:GLN:HA	1:F:365:GLN:OE1	1.85	0.76
1:G:19:GLU:CB	1:G:20:LEU:HA	2.14	0.76
1:G:99:ARG:HH11	1:G:99:ARG:CB	1.98	0.76
1:J:412:LEU:O	1:J:413:GLU:HB2	1.84	0.76
1:K:86:ILE:O	1:K:86:ILE:CD1	2.30	0.76
1:M:332:GLN:NE2	1:M:336:VAL:HG11	2.00	0.76
1:D:255:SER:CB	1:D:257:ILE:HD11	2.16	0.76
1:D:350:VAL:C	1:D:351:PHE:HD1	1.89	0.76
1:F:250:ASP:OD2	1:F:251:VAL:CA	2.29	0.76
1:K:248:THR:O	1:K:249:ASN:CB	2.34	0.76
2:N:168:ASP:CB	2:N:171:THR:HG21	2.16	0.76
2:N:184:ASP:HA	2:N:225:VAL:HG11	1.67	0.76
2:N:86:SER:HB2	2:N:98:GLN:HB2	1.66	0.76
1:A:83:HIS:HB3	1:A:254:ASN:HD21	1.51	0.76
1:B:436:ILE:HG12	1:B:437:GLY:HA2	1.66	0.76
1:C:377:TYR:O	1:C:381:VAL:HG13	1.86	0.76
1:C:99:ARG:HG2	1:C:99:ARG:NH1	1.93	0.76
1:D:502:GLU:OE2	1:D:503:LEU:CD2	2.34	0.76
1:E:86:ILE:O	1:E:86:ILE:HG13	1.84	0.76
1:G:140:LYS:CG	1:G:179:GLU:OE2	2.29	0.76
1:G:252:SER:HB3	1:G:253:GLY:HA2	1.67	0.76
1:M:337:ILE:HD12	1:M:338:TYR:HE2	1.48	0.76
1:M:341:LEU:O	1:M:341:LEU:HD13	1.86	0.76
1:M:502:GLU:CD	1:M:503:LEU:N	2.39	0.76
2:N:186:THR:HG23	2:N:226:ARG:CB	2.14	0.76
1:C:331:LYS:NZ	1:C:334:ASP:OD1	2.18	0.76
1:D:377:TYR:CD2	1:D:392:PHE:HD2	2.04	0.76
1:F:76:THR:HG22	1:F:198:ARG:HG3	1.66	0.76
1:H:351:PHE:O	1:H:414:GLY:N	2.16	0.76
1:I:314:SER:HB2	1:I:443:VAL:H	1.49	0.76
1:K:238:LEU:O	1:K:238:LEU:CD1	2.30	0.76
1:K:247:ILE:HD13	1:K:248:THR:CA	2.15	0.76
1:A:341:LEU:O	1:A:341:LEU:CD2	2.30	0.75
1:C:478:MET:HE2	1:C:478:MET:CA	2.11	0.75
1:E:244:HIS:HB2	1:E:345:ILE:HG13	1.68	0.75
1:L:357:LEU:CD1	1:L:358:ASN:N	2.47	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:135:THR:CG2	1:M:386:ASN:OD1	2.34	0.75
2:N:103:PHE:HE1	2:N:131:TYR:CD1	2.02	0.75
2:N:256:LEU:HD22	2:N:307:PRO:HG2	0.77	0.75
2:N:271:LEU:HG	2:N:336:ASP:OD2	1.84	0.75
1:I:470:LEU:HD11	1:I:472:ILE:HG13	1.68	0.75
1:I:484:ALA:HA	1:J:1:MET:H1	1.48	0.75
1:J:132:ARG:NH2	1:J:132:ARG:HG3	1.98	0.75
1:J:218:GLN:O	1:J:219:ALA:CB	2.34	0.75
1:L:496:HIS:CE1	1:M:22:ASN:HB3	2.22	0.75
1:M:411:GLY:O	1:M:412:LEU:CD1	2.34	0.75
1:H:350:VAL:HG13	1:H:413:GLU:HB2	1.67	0.75
1:D:324:ARG:HG2	1:D:324:ARG:NH1	1.88	0.75
1:E:258:GLY:HA2	1:E:341:LEU:HD13	1.65	0.75
1:F:435:VAL:HG22	1:F:436:ILE:H	1.50	0.75
1:G:318:GLN:CA	1:G:440:ASN:HB3	2.16	0.75
1:H:99:ARG:NH2	1:H:240:ARG:HE	1.84	0.75
1:J:108:ASN:CA	1:J:235:ASN:ND2	2.49	0.75
1:M:252:SER:N	1:M:253:GLY:HA2	1.98	0.75
1:D:73:TYR:OH	1:D:199:ILE:HD11	1.86	0.75
1:G:65:ARG:HG3	1:G:65:ARG:NH1	1.91	0.75
1:I:110:LEU:HD23	1:I:111:ASN:CA	2.15	0.75
1:I:104:SER:HB2	1:I:123:LEU:HD23	1.68	0.75
1:I:106:ILE:HD11	1:I:238:LEU:CA	2.16	0.75
1:M:217:GLU:O	1:M:218:GLN:HB2	1.85	0.75
1:I:267:PRO:O	1:I:268:SER:OG	2.04	0.75
1:L:229:THR:C	1:L:230:PHE:CD2	2.60	0.75
1:M:140:LYS:HG2	1:M:179:GLU:OE2	1.86	0.75
1:M:506:ILE:O	1:M:506:ILE:HG12	1.87	0.75
2:N:36:PHE:HZ	2:N:335:VAL:HG11	0.63	0.75
1:B:196:THR:CG2	1:B:197:ALA:N	2.49	0.75
1:B:1:MET:H3	1:B:7:PRO:HB2	1.50	0.75
1:C:83:HIS:HD1	1:C:83:HIS:C	1.88	0.75
1:D:423:LYS:CG	1:D:424:ASP:OD1	2.30	0.75
1:E:3:ASN:HD22	1:E:4:SER:N	1.83	0.75
2:N:168:ASP:HB3	2:N:171:THR:HG1	1.49	0.75
1:A:117:PHE:O	1:A:117:PHE:CD1	2.29	0.75
1:A:305:ALA:CB	1:A:455:THR:HA	2.16	0.75
1:D:1:MET:SD	1:D:10:VAL:CB	2.71	0.75
1:F:192:ASN:C	1:F:192:ASN:HD22	1.90	0.75
1:G:367:ILE:CG2	1:G:368:LEU:HD12	2.12	0.75
1:H:249:ASN:HB2	1:H:255:SER:HA	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:121:ILE:CD1	1:H:293:LEU:HG	2.05	0.75
1:I:364:GLN:OE1	1:I:364:GLN:CA	2.30	0.75
1:M:100:ALA:HB2	1:M:182:ARG:HD3	1.69	0.75
1:M:140:LYS:CD	1:M:179:GLU:HG2	2.16	0.75
1:M:324:ARG:HH11	1:M:324:ARG:CG	1.93	0.75
1:E:317:VAL:O	1:E:317:VAL:HG22	1.87	0.75
1:H:76:THR:HB	1:H:198:ARG:HG2	1.68	0.75
1:J:89:ASN:HB2	1:J:192:ASN:HD21	1.52	0.75
1:A:83:HIS:HB3	1:A:254:ASN:ND2	2.00	0.74
1:C:172:THR:O	1:C:173:SER:CB	2.35	0.74
1:C:438:ASN:ND2	1:C:438:ASN:N	2.35	0.74
1:D:379:PHE:CE1	1:D:424:ASP:HB3	2.21	0.74
1:F:506:ILE:O	1:F:506:ILE:CD1	2.30	0.74
1:G:194:THR:OG1	1:G:195:THR:CG2	2.35	0.74
1:K:437:GLY:O	1:K:439:PHE:HE2	1.70	0.74
1:A:114:ILE:O	1:A:116:GLY:HA2	1.86	0.74
1:A:115:ASN:HD22	1:A:472:ILE:CG2	1.99	0.74
1:A:87:THR:C	1:A:88:GLU:CD	2.45	0.74
1:D:265:GLN:N	1:D:265:GLN:NE2	2.30	0.74
1:D:341:LEU:HD23	1:D:342:ASN:CA	2.17	0.74
1:G:374:GLN:NE2	1:G:375:ASN:HA	1.99	0.74
1:I:441:LEU:HD12	1:I:441:LEU:C	2.06	0.74
1:K:224:ASN:ND2	1:K:224:ASN:H	1.84	0.74
1:M:367:ILE:CD1	1:M:367:ILE:H	1.99	0.74
1:A:285:ARG:HB2	1:A:473:SER:HB2	1.70	0.74
1:A:324:ARG:HG3	1:A:325:LYS:HG2	1.68	0.74
1:B:171:PHE:CD1	1:B:171:PHE:C	2.61	0.74
1:B:208:PHE:HE1	1:B:214:TRP:CD1	2.04	0.74
1:C:377:TYR:CE1	1:C:389:TRP:HB2	2.23	0.74
1:D:261:ASN:N	1:D:261:ASN:HD22	1.83	0.74
1:E:357:LEU:HB3	1:E:376:LEU:HD11	1.69	0.74
1:G:9:ASN:ND2	1:G:10:VAL:N	2.30	0.74
1:L:249:ASN:ND2	1:L:250:ASP:H	1.85	0.74
1:M:295:ARG:NH1	1:M:295:ARG:HG2	2.02	0.74
2:N:274:ILE:HG23	2:N:275:ASN:N	2.02	0.74
2:N:36:PHE:CE2	2:N:335:VAL:CG1	2.70	0.74
1:C:96:ASP:HB3	1:C:242:TRP:CZ2	2.23	0.74
1:D:261:ASN:N	1:D:261:ASN:ND2	2.30	0.74
1:E:39:PRO:HB3	1:E:270:TYR:CE1	2.21	0.74
1:I:88:GLU:O	1:I:194:THR:HB	1.87	0.74
1:J:341:LEU:C	1:J:341:LEU:CD1	2.30	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:507:TYR:CD1	1:L:508:GLY:HA3	2.23	0.74
1:B:258:GLY:HA2	1:B:341:LEU:HD23	1.70	0.74
1:B:357:LEU:O	1:B:357:LEU:HD12	1.87	0.74
1:G:336:VAL:HA	1:G:339:GLN:NE2	2.02	0.74
1:H:349:ASP:O	1:H:350:VAL:HG22	1.86	0.74
1:J:86:ILE:O	1:J:86:ILE:HD12	1.86	0.74
1:L:104:SER:HB3	1:L:205:GLU:OE1	1.87	0.74
2:N:252:GLU:O	2:N:254:PRO:HD2	1.86	0.74
1:F:296:TYR:CD2	1:F:296:TYR:N	2.55	0.74
1:H:99:ARG:HH22	1:H:240:ARG:NE	1.86	0.74
1:I:425:VAL:HG12	1:I:426:GLY:N	2.00	0.74
1:K:59:ALA:O	1:K:60:GLN:HB2	1.85	0.74
1:K:92:GLN:HB2	1:K:95:ARG:HB2	1.68	0.74
1:M:412:LEU:N	1:M:412:LEU:CD1	2.51	0.74
1:M:451:ASN:HD21	1:M:454:VAL:HG22	1.52	0.74
2:N:173:LYS:CG	2:N:254:PRO:CD	2.65	0.74
1:B:1:MET:H1	1:B:2:SER:HA	1.53	0.74
1:I:1:MET:HG3	1:I:10:VAL:CB	2.14	0.74
1:I:204:TYR:CE1	1:J:374:GLN:HG2	2.22	0.74
1:J:61:THR:HG23	1:J:275:THR:HB	1.70	0.74
1:K:1:MET:SD	1:L:26:TRP:CD1	2.80	0.74
1:A:110:LEU:HD13	1:A:111:ASN:N	2.02	0.74
1:B:337:ILE:HD11	1:B:338:TYR:CE2	2.23	0.74
1:C:123:LEU:HD23	1:C:127:ILE:HB	1.70	0.74
1:C:500:TYR:O	1:C:503:LEU:HB3	1.87	0.74
1:E:45:PHE:CE2	1:E:266:GLN:CA	2.71	0.74
1:H:392:PHE:HD1	1:H:393:ASN:N	1.85	0.74
1:J:364:GLN:NE2	1:J:367:ILE:HD11	1.98	0.74
1:M:412:LEU:N	1:M:412:LEU:HD13	1.99	0.74
1:B:285:ARG:HG3	1:B:285:ARG:HH11	1.53	0.74
1:J:136:PRO:HD2	1:J:139:VAL:HB	1.70	0.74
1:J:486:LYS:HZ3	1:J:486:LYS:HA	1.52	0.74
1:K:342:ASN:O	1:K:346:THR:CG2	2.35	0.74
1:M:151:GLU:CD	1:M:151:GLU:H	1.87	0.74
1:B:461:TYR:C	1:B:462:ILE:CD1	2.55	0.74
1:C:412:LEU:HD12	1:C:413:GLU:CB	2.18	0.74
1:D:92:GLN:HB2	1:D:95:ARG:HB2	1.68	0.74
1:L:228:LEU:C	1:L:229:THR:HG22	2.06	0.74
1:L:228:LEU:HD13	1:L:230:PHE:CE2	2.23	0.74
1:C:478:MET:SD	1:L:34:GLN:OE1	2.46	0.73
1:D:380:SER:CB	1:D:383:ASN:H	2.00	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1:MET:CB	1:G:2:SER:HB2	2.07	0.73
1:G:324:ARG:HB2	1:G:467:ASP:OD1	1.87	0.73
1:H:106:ILE:CD1	1:H:241:ILE:HG13	2.18	0.73
1:H:324:ARG:NH1	1:H:324:ARG:HG2	2.03	0.73
1:B:196:THR:HG23	1:B:197:ALA:N	2.03	0.73
1:B:362:ASN:OD1	1:B:363:ASN:HB2	1.88	0.73
1:G:58:SER:OG	1:L:116:GLY:CA	2.37	0.73
1:H:395:VAL:HG12	1:H:450:THR:HG22	1.68	0.73
1:K:222:LEU:HD23	1:K:222:LEU:N	2.02	0.73
1:K:60:GLN:O	1:K:276:PRO:CD	2.35	0.73
1:L:253:GLY:H	1:L:254:ASN:HA	1.51	0.73
1:M:158:ARG:HH11	1:M:158:ARG:CG	2.01	0.73
1:A:305:ALA:HB3	1:A:455:THR:HG22	1.70	0.73
1:A:89:ASN:OD1	1:A:192:ASN:ND2	2.21	0.73
1:C:490:LEU:CD1	1:C:490:LEU:C	2.53	0.73
1:E:32:GLY:HA2	1:E:277:ARG:HG3	1.69	0.73
1:E:303:THR:CG2	1:E:457:THR:CB	2.66	0.73
1:H:345:ILE:HG13	1:H:346:THR:HG22	1.67	0.73
1:L:266:GLN:O	1:L:266:GLN:HG3	1.87	0.73
2:N:227:PHE:CE2	2:N:229:GLY:O	2.41	0.73
1:B:21:ASN:H	1:B:21:ASN:ND2	1.85	0.73
1:E:493:ARG:CG	1:E:493:ARG:HH11	2.00	0.73
1:F:106:ILE:HD13	1:F:238:LEU:HD12	1.69	0.73
1:I:377:TYR:O	1:I:377:TYR:CD2	2.41	0.73
1:J:386:ASN:C	1:J:386:ASN:ND2	2.40	0.73
1:K:342:ASN:O	1:K:346:THR:HG22	1.88	0.73
1:M:121:ILE:HD13	1:M:209:LEU:HB2	1.70	0.73
1:M:386:ASN:O	1:M:387:LYS:CD	2.36	0.73
1:B:505:ARG:CG	1:B:505:ARG:HH11	1.99	0.73
1:C:377:TYR:CD2	1:C:377:TYR:C	2.55	0.73
1:C:75:ILE:HG22	1:C:76:THR:N	2.03	0.73
1:C:86:ILE:O	1:C:86:ILE:CG2	2.30	0.73
1:F:2:SER:O	1:F:3:ASN:CB	2.36	0.73
1:C:322:ILE:HG22	1:C:421:LEU:HD23	1.71	0.73
1:D:380:SER:CB	1:D:383:ASN:HB2	2.19	0.73
1:H:238:LEU:HD23	1:H:262:ILE:HG13	1.64	0.73
1:L:253:GLY:N	1:L:254:ASN:CA	2.50	0.73
2:N:168:ASP:OD1	2:N:171:THR:CG2	2.30	0.73
1:B:190:VAL:O	1:B:191:THR:HG22	1.87	0.73
1:D:252:SER:CB	1:D:253:GLY:CA	2.65	0.73
1:J:205:GLU:OE1	1:J:232:TRP:CZ3	2.42	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:361:TRP:HA	1:L:361:TRP:CE3	2.22	0.73
1:C:299:GLN:N	1:C:299:GLN:HE21	1.85	0.73
1:G:172:THR:O	1:G:173:SER:CB	2.36	0.73
1:G:254:ASN:N	1:G:254:ASN:ND2	2.36	0.73
1:H:326:LEU:CD2	1:H:328:LEU:HD21	2.18	0.73
1:H:441:LEU:N	1:H:441:LEU:HD12	2.04	0.73
1:L:337:ILE:CD1	1:L:338:TYR:CD2	2.71	0.73
2:N:72:ILE:HD11	2:N:131:TYR:CZ	2.24	0.73
1:A:253:GLY:CA	1:A:254:ASN:HB3	2.09	0.73
1:D:83:HIS:HE1	1:D:256:THR:HG22	1.52	0.73
1:G:345:ILE:HG12	1:G:346:THR:N	2.00	0.73
1:G:374:GLN:NE2	1:G:374:GLN:C	2.42	0.73
1:J:328:LEU:CD2	1:J:443:VAL:HG21	2.19	0.73
1:M:194:THR:O	1:M:195:THR:CB	2.35	0.73
1:B:27:VAL:HG22	1:C:11:VAL:HG23	1.70	0.73
1:E:73:TYR:CE1	1:E:201:GLY:O	2.41	0.73
1:E:259:SER:HA	1:E:341:LEU:CD1	2.18	0.73
1:G:108:ASN:CB	1:G:235:ASN:OD1	2.37	0.73
1:A:428:ARG:CB	1:A:428:ARG:HH11	2.02	0.72
1:C:327:TYR:O	1:C:328:LEU:CD2	2.37	0.72
1:E:78:THR:HG22	1:E:259:SER:O	1.89	0.72
1:F:180:LEU:N	1:F:180:LEU:HD23	2.02	0.72
1:F:295:ARG:HG2	1:F:295:ARG:HH11	1.54	0.72
1:F:503:LEU:HA	1:F:506:ILE:HG21	1.68	0.72
1:K:73:TYR:HE2	1:K:199:ILE:HD12	1.54	0.72
1:K:87:THR:O	1:K:88:GLU:CB	2.37	0.72
1:C:478:MET:SD	1:L:34:GLN:CD	2.66	0.72
1:A:192:ASN:C	1:A:192:ASN:HD22	1.93	0.72
1:D:136:PRO:HD2	1:D:139:VAL:HB	1.69	0.72
1:D:1:MET:CG	1:D:10:VAL:HB	2.19	0.72
1:D:392:PHE:CE1	1:D:415:GLY:HA3	2.23	0.72
1:F:83:HIS:ND1	1:F:250:ASP:O	2.21	0.72
1:G:265:GLN:CA	1:G:265:GLN:HE21	2.01	0.72
1:I:439:PHE:N	1:I:439:PHE:CD2	2.54	0.72
1:M:6:ILE:H	1:M:6:ILE:HD13	1.54	0.72
1:B:190:VAL:CG2	1:B:198:ARG:O	2.36	0.72
1:B:324:ARG:HG3	1:B:325:LYS:HG3	1.71	0.72
1:E:153:ASN:HD22	1:E:153:ASN:N	1.86	0.72
1:H:313:LYS:CB	1:H:313:LYS:HZ2	2.00	0.72
1:K:89:ASN:HD22	1:K:89:ASN:N	1.87	0.72
1:C:494:ILE:C	1:C:494:ILE:HD12	2.10	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:382:GLN:HE21	1:F:423:LYS:NZ	1.72	0.72
1:H:305:ALA:CB	1:H:455:THR:HA	2.20	0.72
1:K:428:ARG:HG2	1:K:428:ARG:HH11	1.53	0.72
1:M:313:LYS:HZ2	1:M:313:LYS:HB3	0.61	0.72
1:E:48:ASN:HD21	1:J:295:ARG:HH22	0.73	0.72
1:H:238:LEU:CD2	1:H:238:LEU:O	2.36	0.72
1:I:377:TYR:CE1	1:I:389:TRP:HB2	2.24	0.72
1:E:235:ASN:ND2	1:J:108:ASN:HD22	1.87	0.72
1:J:1:MET:CG	1:J:10:VAL:HG22	2.19	0.72
2:N:99:ASN:ND2	2:N:150:ALA:HB2	2.02	0.72
1:B:305:ALA:CB	1:B:455:THR:CB	2.67	0.72
1:H:1:MET:HE1	1:I:26:TRP:HB3	1.70	0.72
1:I:332:GLN:OE1	1:I:333:SER:N	2.22	0.72
1:K:117:PHE:HB3	1:K:477:ALA:HB3	1.72	0.72
1:M:102:PRO:HB2	1:M:241:ILE:HD12	1.66	0.72
2:N:255:THR:O	2:N:257:SER:HB2	1.88	0.72
1:A:22:ASN:N	1:A:22:ASN:HD22	1.87	0.72
1:B:89:ASN:HD21	1:D:403:SER:N	1.88	0.72
1:C:99:ARG:HH11	1:C:99:ARG:CG	1.97	0.72
1:F:187:MET:HB2	1:F:199:ILE:HD13	1.72	0.72
1:F:39:PRO:HB3	1:F:270:TYR:CE1	2.24	0.72
1:G:155:GLN:HG2	1:G:451:ASN:HB2	1.72	0.72
1:H:412:LEU:O	1:H:413:GLU:HG3	1.88	0.72
1:H:328:LEU:HD22	1:H:462:ILE:HD13	1.68	0.72
1:K:95:ARG:HH12	1:K:248:THR:CG2	2.02	0.72
1:L:341:LEU:CD1	1:L:341:LEU:C	2.58	0.72
1:M:208:PHE:CG	1:M:214:TRP:CD1	2.73	0.72
1:A:106:ILE:HG13	1:A:241:ILE:HG13	1.72	0.72
1:B:305:ALA:CB	1:B:455:THR:HA	2.18	0.72
1:B:5:ALA:HB1	1:C:285:ARG:HH11	1.54	0.72
1:C:92:GLN:NE2	1:C:248:THR:HG22	2.04	0.72
1:D:295:ARG:NH1	1:D:297:THR:HG21	2.05	0.72
1:D:73:TYR:HD2	1:D:75:ILE:HD12	1.54	0.72
1:E:441:LEU:CD2	1:E:441:LEU:C	2.58	0.72
1:H:486:LYS:CB	1:H:486:LYS:HZ3	2.00	0.72
1:K:437:GLY:CA	1:K:439:PHE:HE2	2.03	0.72
2:N:299:PHE:HZ	2:N:313:ILE:HG13	1.55	0.72
1:B:208:PHE:O	1:B:209:LEU:HB3	1.88	0.72
1:G:505:ARG:HH11	1:G:505:ARG:CB	2.02	0.72
1:M:301:GLN:NE2	1:M:301:GLN:CA	2.53	0.72
1:B:507:TYR:CD1	1:B:508:GLY:HA3	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:171:PHE:O	1:D:171:PHE:HD1	1.71	0.72
1:E:240:ARG:HG2	1:E:240:ARG:HH11	1.54	0.72
1:H:342:ASN:H	1:H:342:ASN:HD22	1.38	0.72
1:K:89:ASN:HB3	1:K:192:ASN:ND2	2.05	0.72
1:B:79:ALA:HB2	1:B:195:THR:HA	1.71	0.71
1:B:2:SER:C	1:B:3:ASN:CG	2.48	0.71
1:B:493:ARG:HH11	1:B:493:ARG:HG3	1.55	0.71
1:C:350:VAL:HG21	1:C:413:GLU:O	1.90	0.71
1:H:337:ILE:O	1:H:337:ILE:HG12	1.89	0.71
1:H:99:ARG:NH1	1:H:240:ARG:NH2	2.38	0.71
1:J:367:ILE:H	1:J:367:ILE:HD13	1.55	0.71
2:N:272:LEU:H	2:N:272:LEU:CD1	2.03	0.71
2:N:92:ASN:N	2:N:93:GLY:HA2	2.05	0.71
1:B:462:ILE:CG2	1:B:462:ILE:O	2.30	0.71
1:C:478:MET:CA	1:C:478:MET:CE	2.66	0.71
1:B:17:ARG:HD2	1:D:218:GLN:NE2	2.04	0.71
1:E:380:SER:HA	1:E:382:GLN:N	2.05	0.71
1:H:206:GLN:CG	1:H:208:PHE:CE2	2.66	0.71
1:I:189:VAL:HG22	1:I:199:ILE:HG22	1.70	0.71
1:I:342:ASN:C	1:I:342:ASN:OD1	2.29	0.71
1:J:59:ALA:O	1:J:60:GLN:HB2	1.90	0.71
1:M:132:ARG:HD3	1:M:132:ARG:N	2.05	0.71
2:N:270:ASN:O	2:N:271:LEU:HD22	1.88	0.71
1:B:358:ASN:C	1:B:358:ASN:OD1	2.29	0.71
1:C:396:THR:HG23	1:C:410:ILE:HB	1.73	0.71
1:D:2:SER:O	1:D:3:ASN:CB	2.38	0.71
1:G:5:ALA:HA	1:G:6:ILE:C	2.09	0.71
1:K:264:PHE:O	1:K:265:GLN:NE2	2.23	0.71
2:N:105:PRO:O	2:N:108:THR:O	2.07	0.71
2:N:184:ASP:HA	2:N:225:VAL:HG13	1.71	0.71
1:D:116:GLY:O	2:N:327:PHE:CD2	2.43	0.71
2:N:91:TYR:O	2:N:92:ASN:HB2	1.89	0.71
1:B:332:GLN:CD	1:B:333:SER:HB3	2.10	0.71
1:B:396:THR:O	1:B:410:ILE:HD12	1.91	0.71
1:C:89:ASN:HB3	1:C:192:ASN:HD21	1.56	0.71
1:C:313:LYS:HE3	1:C:442:GLN:NE2	2.06	0.71
1:F:396:THR:CG2	1:F:412:LEU:HD22	2.20	0.71
1:H:351:PHE:HD2	1:H:416:ILE:HG22	1.53	0.71
1:I:336:VAL:CG2	1:I:337:ILE:H	2.00	0.71
1:I:3:ASN:C	1:I:3:ASN:HD22	1.94	0.71
1:I:437:GLY:CA	1:I:439:PHE:HE2	1.97	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:209:LEU:C	1:J:209:LEU:HD23	2.07	0.71
1:D:116:GLY:O	2:N:327:PHE:HD2	1.73	0.71
1:C:140:LYS:CG	1:C:179:GLU:OE1	2.38	0.71
1:C:251:VAL:HG23	1:C:252:SER:N	2.04	0.71
1:F:172:THR:O	1:F:173:SER:CB	2.37	0.71
1:H:313:LYS:HG3	1:H:444:GLN:HB2	1.71	0.71
2:N:186:THR:HG23	2:N:226:ARG:HD3	1.64	0.71
1:A:253:GLY:HA3	1:A:254:ASN:CB	2.15	0.71
1:A:332:GLN:HG2	1:A:456:VAL:HG23	1.71	0.71
1:B:186:THR:HA	1:D:397:GLN:CD	2.07	0.71
1:B:410:ILE:O	1:B:410:ILE:HD13	1.91	0.71
1:F:123:LEU:HD12	1:F:127:ILE:HG12	1.72	0.71
1:G:318:GLN:HB2	1:G:440:ASN:HB3	1.73	0.71
1:I:314:SER:HB2	1:I:443:VAL:N	2.05	0.71
1:M:33:GLN:HG2	1:M:34:GLN:HG2	1.70	0.71
1:C:328:LEU:CD2	1:C:328:LEU:N	2.47	0.71
1:D:61:THR:HG23	1:D:275:THR:HG22	1.71	0.71
1:I:490:LEU:HD23	1:I:491:ASN:HB3	1.70	0.71
1:J:57:PRO:CB	1:L:363:ASN:CG	2.42	0.71
2:N:91:TYR:CZ	2:N:157:PRO:CG	2.73	0.71
2:N:227:PHE:HE1	2:N:232:TYR:CE2	2.06	0.71
1:B:249:ASN:C	1:B:249:ASN:ND2	2.42	0.71
1:C:291:PHE:CE2	1:C:508:GLY:HA2	2.25	0.71
1:C:299:GLN:H	1:C:299:GLN:NE2	1.86	0.71
1:C:460:MET:HG3	1:C:461:TYR:H	1.53	0.71
1:C:65:ARG:CB	1:C:213:LEU:CD2	2.68	0.71
1:E:3:ASN:C	1:E:3:ASN:ND2	2.44	0.71
1:F:106:ILE:CD1	1:F:241:ILE:HG12	2.18	0.71
1:F:265:GLN:N	1:F:265:GLN:HE21	1.85	0.71
1:G:213:LEU:CB	1:G:214:TRP:HB2	2.21	0.71
1:G:21:ASN:N	1:G:21:ASN:HD22	1.80	0.71
1:H:351:PHE:CE2	1:H:416:ILE:HG21	2.14	0.71
1:K:172:THR:O	1:K:173:SER:CB	2.37	0.71
1:L:87:THR:O	1:L:88:GLU:HG3	1.90	0.71
1:M:120:ASN:C	1:M:121:ILE:HD12	2.11	0.71
2:N:17:TYR:H	2:N:17:TYR:HD2	1.38	0.71
1:C:23:GLU:OE2	1:C:23:GLU:HA	1.91	0.71
1:D:393:ASN:O	1:D:393:ASN:CG	2.29	0.71
1:E:1:MET:CE	1:E:10:VAL:HA	2.20	0.71
1:E:285:ARG:HG3	1:F:6:ILE:HD11	1.73	0.71
1:E:304:LEU:HD23	1:E:304:LEU:C	2.08	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:313:LYS:HE2	1:E:442:GLN:CD	2.11	0.71
1:I:322:ILE:CD1	1:I:432:ALA:O	2.39	0.71
1:L:305:ALA:HB2	1:L:455:THR:HA	1.73	0.71
1:B:166:ASN:C	1:B:166:ASN:OD1	2.30	0.71
1:D:416:ILE:O	1:D:416:ILE:CG1	2.38	0.71
1:H:302:ASN:N	1:H:302:ASN:HD22	1.86	0.71
1:L:228:LEU:C	1:L:229:THR:CG2	2.59	0.71
1:M:108:ASN:ND2	1:M:109:THR:HG22	2.03	0.71
1:B:224:ASN:ND2	1:B:224:ASN:H	1.89	0.70
1:C:286:ILE:HD11	1:C:288:TYR:CZ	2.25	0.70
1:D:343:ASN:ND2	1:D:343:ASN:C	2.30	0.70
1:E:250:ASP:C	1:E:250:ASP:OD1	2.30	0.70
1:G:340:ASN:ND2	1:G:342:ASN:HD22	1.86	0.70
1:H:428:ARG:O	1:H:431:GLU:CG	2.39	0.70
1:L:249:ASN:HB2	1:L:255:SER:HA	1.73	0.70
1:M:503:LEU:HD22	1:M:503:LEU:C	2.10	0.70
1:M:502:GLU:OE1	1:M:503:LEU:HA	1.90	0.70
1:B:136:PRO:HD2	1:B:139:VAL:HB	1.71	0.70
1:B:385:TYR:CE2	1:B:387:LYS:CB	2.54	0.70
1:C:381:VAL:HG22	1:C:382:GLN:N	2.05	0.70
1:D:502:GLU:C	1:D:502:GLU:OE2	2.30	0.70
1:F:501:ASN:ND2	1:F:501:ASN:H	1.87	0.70
1:H:1:MET:HG3	1:H:10:VAL:CB	2.19	0.70
1:M:132:ARG:HG2	1:M:132:ARG:NH1	2.00	0.70
2:N:128:THR:C	2:N:130:TYR:H	1.92	0.70
1:A:428:ARG:HH11	1:A:428:ARG:HB3	1.56	0.70
1:A:85:GLY:HA3	1:A:86:ILE:HB	1.70	0.70
1:B:459:ASP:OD2	1:B:459:ASP:C	2.30	0.70
1:C:376:LEU:HD23	1:C:379:PHE:CZ	2.25	0.70
1:D:363:ASN:C	1:D:364:GLN:OE1	2.30	0.70
1:D:3:ASN:CG	1:D:3:ASN:O	2.30	0.70
1:E:21:ASN:CG	1:E:21:ASN:O	2.30	0.70
1:E:48:ASN:ND2	1:J:295:ARG:HH21	1.86	0.70
1:F:363:ASN:O	1:F:363:ASN:CG	2.30	0.70
1:G:192:ASN:ND2	1:G:192:ASN:C	2.45	0.70
1:H:392:PHE:CD1	1:H:393:ASN:N	2.60	0.70
1:L:486:LYS:HD2	1:L:486:LYS:H	1.54	0.70
1:M:315:ASN:C	1:M:315:ASN:OD1	2.29	0.70
1:A:305:ALA:HB3	1:A:455:THR:HA	1.72	0.70
1:B:155:GLN:HG3	1:B:412:LEU:H	1.57	0.70
1:C:377:TYR:CD2	1:C:381:VAL:CG1	2.65	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:210:PRO:CB	1:F:211:PRO:HD3	2.14	0.70
1:I:110:LEU:CD2	1:I:111:ASN:CA	2.70	0.70
1:K:25:THR:CG2	1:M:9:ASN:HB3	2.21	0.70
1:K:39:PRO:HB3	1:K:270:TYR:CE1	2.26	0.70
1:L:87:THR:O	1:L:88:GLU:HB2	1.91	0.70
1:M:208:PHE:CD1	1:M:214:TRP:HD1	1.56	0.70
2:N:227:PHE:HD2	2:N:229:GLY:O	1.73	0.70
1:A:264:PHE:C	1:A:265:GLN:HE21	1.94	0.70
1:A:87:THR:C	1:A:88:GLU:OE1	2.30	0.70
1:B:19:GLU:CB	1:B:20:LEU:HA	2.14	0.70
1:B:363:ASN:C	1:B:364:GLN:CD	2.49	0.70
1:B:86:ILE:O	1:B:86:ILE:CG1	2.30	0.70
1:C:206:GLN:NE2	1:C:208:PHE:CE1	2.59	0.70
1:D:73:TYR:CD1	1:D:203:LEU:HD21	2.26	0.70
1:F:237:ASN:HB2	1:F:344:GLN:OE1	1.91	0.70
1:H:110:LEU:CD2	1:H:232:TRP:CE2	2.74	0.70
1:H:73:TYR:HE1	1:H:203:LEU:CD2	2.05	0.70
1:H:238:LEU:C	1:H:238:LEU:HD23	2.11	0.70
1:J:18:LEU:O	1:J:19:GLU:CD	2.30	0.70
1:J:231:ASN:C	1:J:231:ASN:OD1	2.30	0.70
1:J:87:THR:CG2	1:J:88:GLU:HA	2.21	0.70
1:K:439:PHE:N	1:K:439:PHE:CD2	2.59	0.70
1:L:89:ASN:CB	1:L:192:ASN:HD21	2.00	0.70
1:L:358:ASN:C	1:L:358:ASN:OD1	2.29	0.70
1:L:429:ASP:OD2	1:L:430:ASP:HB2	1.90	0.70
1:B:165:ASN:O	1:B:165:ASN:CG	2.30	0.70
1:C:51:ASN:CB	1:C:231:ASN:HB2	2.21	0.70
1:C:73:TYR:HE2	1:C:199:ILE:CD1	2.04	0.70
1:D:261:ASN:CA	1:D:262:ILE:HD13	2.22	0.70
1:F:172:THR:O	1:F:173:SER:HB3	1.89	0.70
1:G:376:LEU:HD12	1:G:376:LEU:N	2.06	0.70
1:G:87:THR:C	1:G:88:GLU:OE2	2.30	0.70
1:I:343:ASN:OD1	1:I:343:ASN:C	2.30	0.70
1:A:34:GLN:HE22	1:J:364:GLN:HB2	1.56	0.70
1:L:257:ILE:HD12	1:L:257:ILE:H	1.54	0.70
1:M:215:ASP:OD1	1:M:215:ASP:C	2.30	0.70
1:M:362:ASN:N	1:M:362:ASN:HD22	1.89	0.70
1:C:217:GLU:CD	1:C:217:GLU:O	2.30	0.70
1:D:340:ASN:CG	1:D:340:ASN:O	2.30	0.70
1:E:1:MET:SD	1:E:10:VAL:HB	2.32	0.70
1:E:250:ASP:OD2	1:E:254:ASN:CG	2.30	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:333:SER:HB2	1:F:459:ASP:HB3	1.72	0.70
1:H:313:LYS:HG3	1:H:444:GLN:CB	2.20	0.70
1:I:251:VAL:HG13	1:I:252:SER:H	1.57	0.70
1:M:431:GLU:HB2	1:M:435:VAL:HG21	1.74	0.70
1:D:356:ASN:C	1:D:356:ASN:OD1	2.30	0.70
1:D:361:TRP:CE3	1:D:362:ASN:OD1	2.45	0.70
1:E:286:ILE:CD1	1:E:287:THR:H	2.05	0.70
1:F:507:TYR:CD1	1:F:508:GLY:N	2.60	0.70
1:H:133:TYR:CZ	1:H:418:CYS:HB3	2.26	0.70
1:I:1:MET:SD	1:I:10:VAL:HB	2.31	0.70
2:N:91:TYR:CZ	2:N:157:PRO:HG3	2.27	0.70
2:N:84:ILE:O	2:N:84:ILE:HD13	1.91	0.70
1:C:459:ASP:C	1:C:459:ASP:OD2	2.30	0.70
1:C:502:GLU:C	1:C:502:GLU:OE2	2.30	0.70
1:D:252:SER:HB2	1:D:253:GLY:HA2	1.71	0.70
1:H:313:LYS:CD	1:H:444:GLN:HG3	2.21	0.70
1:H:59:ALA:O	1:H:60:GLN:CD	2.30	0.70
1:I:96:ASP:OD2	1:I:96:ASP:C	2.29	0.70
1:L:249:ASN:O	1:L:250:ASP:CG	2.30	0.70
1:L:377:TYR:O	1:L:381:VAL:HG12	1.92	0.70
1:M:165:ASN:H	1:M:165:ASN:HD22	1.39	0.70
1:M:337:ILE:CD1	1:M:338:TYR:CE2	2.69	0.70
1:A:342:ASN:C	1:A:342:ASN:OD1	2.30	0.70
1:B:401:GLY:O	1:B:402:VAL:HG23	1.91	0.70
1:C:1:MET:N	1:D:484:ALA:HA	2.07	0.70
1:E:299:GLN:NE2	1:J:46:SER:CA	2.51	0.70
1:F:507:TYR:CD1	1:F:508:GLY:O	2.45	0.70
1:G:92:GLN:HB2	1:G:95:ARG:HB2	1.74	0.70
1:I:362:ASN:O	1:I:362:ASN:CG	2.30	0.70
1:J:140:LYS:CG	1:J:179:GLU:HG2	2.20	0.70
1:J:205:GLU:OE2	1:J:232:TRP:CZ3	2.45	0.70
2:N:169:SER:O	2:N:170:ASN:CG	2.30	0.70
1:B:111:ASN:C	1:B:111:ASN:OD1	2.29	0.69
1:B:357:LEU:HD12	1:B:358:ASN:CA	2.21	0.69
1:B:396:THR:OG1	1:B:412:LEU:HD13	1.92	0.69
1:C:386:ASN:C	1:C:386:ASN:ND2	2.38	0.69
1:C:488:GLU:C	1:C:488:GLU:OE1	2.30	0.69
1:D:404:GLY:O	1:D:405:GLN:CD	2.30	0.69
1:E:484:ALA:HA	1:F:1:MET:H1	1.55	0.69
1:F:92:GLN:HB3	1:F:93:PRO:HD2	1.74	0.69
1:G:349:ASP:O	1:G:349:ASP:CG	2.30	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:376:LEU:CA	1:G:379:PHE:CE2	2.75	0.69
1:H:343:ASN:O	1:H:347:THR:CG2	2.40	0.69
1:H:379:PHE:CD2	1:H:379:PHE:C	2.66	0.69
1:H:3:ASN:HB2	1:J:483:VAL:O	1.91	0.69
1:K:84:ALA:HA	1:K:86:ILE:HB	1.73	0.69
1:M:136:PRO:O	1:M:137:LEU:C	2.29	0.69
1:C:343:ASN:C	1:C:343:ASN:OD1	2.30	0.69
1:D:73:TYR:CD2	1:D:75:ILE:HD12	2.27	0.69
1:E:362:ASN:ND2	1:E:362:ASN:N	2.36	0.69
1:G:108:ASN:OD1	1:G:108:ASN:C	2.30	0.69
1:H:436:ILE:CG1	1:H:437:GLY:HA2	2.22	0.69
1:L:188:ASN:C	1:L:188:ASN:OD1	2.30	0.69
1:M:100:ALA:HB3	1:M:182:ARG:HD3	1.74	0.69
1:M:265:GLN:HE21	1:M:265:GLN:HA	1.55	0.69
1:M:475:THR:O	1:M:476:SER:HB3	1.92	0.69
2:N:271:LEU:CG	2:N:336:ASP:OD1	2.40	0.69
1:B:2:SER:O	1:B:3:ASN:CG	2.30	0.69
1:B:332:GLN:CD	1:B:333:SER:OG	2.30	0.69
1:B:367:ILE:HG22	1:B:368:LEU:HD12	1.72	0.69
1:D:249:ASN:OD1	1:D:253:GLY:HA3	1.92	0.69
1:F:364:GLN:HG3	1:F:367:ILE:HD11	1.74	0.69
1:F:2:SER:O	1:F:3:ASN:HB3	1.91	0.69
1:F:490:LEU:C	1:F:491:ASN:ND2	2.45	0.69
1:E:1:MET:N	1:G:484:ALA:HA	2.07	0.69
1:I:120:ASN:HD22	1:I:120:ASN:C	1.95	0.69
1:I:349:ASP:OD2	1:I:349:ASP:C	2.30	0.69
1:I:490:LEU:O	1:I:491:ASN:CG	2.30	0.69
1:L:110:LEU:HD11	1:L:207:VAL:HG13	1.72	0.69
1:L:215:ASP:OD1	1:L:215:ASP:C	2.30	0.69
1:L:250:ASP:C	1:L:250:ASP:OD2	2.31	0.69
1:K:483:VAL:O	1:L:3:ASN:HB2	1.92	0.69
2:N:173:LYS:HD3	2:N:254:PRO:HG3	0.71	0.69
1:B:332:GLN:CD	1:B:333:SER:CB	2.61	0.69
1:D:61:THR:CG2	1:D:275:THR:CG2	2.45	0.69
1:G:341:LEU:HD12	1:G:345:ILE:HG22	1.74	0.69
1:H:350:VAL:HG12	1:H:413:GLU:CB	2.12	0.69
1:J:292:LYS:HE3	1:J:294:SER:HB3	1.73	0.69
1:L:155:GLN:HA	1:L:155:GLN:NE2	2.08	0.69
1:L:349:ASP:N	1:L:349:ASP:OD2	2.25	0.69
1:M:114:ILE:HG21	1:M:472:ILE:HD11	1.74	0.69
2:N:157:PRO:C	2:N:158:VAL:CG2	2.60	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:356:ASN:OD1	1:B:356:ASN:C	2.30	0.69
1:C:412:LEU:HD13	1:C:413:GLU:N	2.08	0.69
1:D:208:PHE:CE1	1:D:214:TRP:CG	2.81	0.69
1:F:87:THR:O	1:F:88:GLU:HG3	1.92	0.69
1:G:265:GLN:N	1:G:265:GLN:NE2	2.30	0.69
1:H:393:ASN:O	1:H:393:ASN:CG	2.29	0.69
1:I:100:ALA:CB	1:I:182:ARG:HD3	2.22	0.69
1:I:235:ASN:HD22	1:I:237:ASN:H	1.40	0.69
1:I:356:ASN:C	1:I:356:ASN:OD1	2.30	0.69
1:I:386:ASN:HD22	1:I:386:ASN:C	1.95	0.69
1:I:72:PRO:HG2	1:I:265:GLN:HB2	1.73	0.69
1:J:59:ALA:O	1:J:60:GLN:CD	2.30	0.69
1:K:14:GLN:HA	1:K:14:GLN:OE1	1.91	0.69
1:K:334:ASP:C	1:K:334:ASP:OD2	2.30	0.69
1:L:154:TYR:CD2	1:L:160:ALA:CB	2.75	0.69
1:L:356:ASN:C	1:L:356:ASN:OD1	2.30	0.69
1:L:359:LEU:HD23	1:L:367:ILE:HG22	1.75	0.69
1:C:474:ASN:C	1:C:474:ASN:OD1	2.30	0.69
1:C:482:GLY:O	1:C:484:ALA:HB3	1.89	0.69
1:F:215:ASP:OD2	1:F:215:ASP:C	2.30	0.69
1:I:386:ASN:ND2	1:I:386:ASN:O	2.18	0.69
1:J:322:ILE:HG22	1:J:361:TRP:CH2	2.27	0.69
1:K:238:LEU:C	1:K:238:LEU:CD1	2.59	0.69
1:K:249:ASN:C	1:K:249:ASN:OD1	2.30	0.69
1:L:337:ILE:CD1	1:L:338:TYR:CE2	2.76	0.69
1:L:423:LYS:HG2	1:M:15:GLU:OE1	1.93	0.69
1:M:428:ARG:HG3	1:M:429:ASP:H	1.57	0.69
2:N:227:PHE:CZ	2:N:232:TYR:CD2	2.79	0.69
2:N:28:ASP:C	2:N:28:ASP:OD2	2.30	0.69
1:B:209:LEU:HD23	1:B:210:PRO:CA	2.22	0.69
1:C:92:GLN:NE2	1:C:248:THR:HG21	2.07	0.69
1:E:438:ASN:CG	1:E:438:ASN:O	2.30	0.69
1:F:488:GLU:OE2	1:F:488:GLU:HA	1.93	0.69
1:G:451:ASN:HD21	1:G:454:VAL:HG22	1.57	0.69
1:G:60:GLN:HG2	1:G:60:GLN:O	1.93	0.69
1:K:437:GLY:CA	1:K:439:PHE:CE2	2.75	0.69
1:K:87:THR:O	1:K:88:GLU:CG	2.40	0.69
1:L:100:ALA:H	1:L:182:ARG:NH1	1.89	0.69
1:M:429:ASP:C	1:M:429:ASP:OD2	2.30	0.69
1:A:111:ASN:CB	1:A:120:ASN:HB2	2.22	0.69
1:B:73:TYR:CE2	1:B:201:GLY:N	2.60	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:501:ASN:HD22	1:C:502:GLU:N	1.89	0.69
1:E:127:ILE:CG2	1:E:128:HIS:N	2.54	0.69
1:F:211:PRO:HB2	1:F:212:PHE:CD2	2.28	0.69
1:G:43:THR:HG23	1:L:44:SER:H	1.55	0.69
1:H:357:LEU:HD12	1:H:358:ASN:H	1.57	0.69
1:H:430:ASP:OD2	1:H:486:LYS:O	2.11	0.69
1:H:170:VAL:HG11	1:I:398:GLN:HG3	1.75	0.69
1:K:61:THR:CG2	1:K:275:THR:HG22	2.23	0.69
1:E:369:SER:HG	1:L:109:THR:HG1	1.33	0.69
1:M:342:ASN:C	1:M:342:ASN:OD1	2.30	0.69
1:M:59:ALA:C	1:M:60:GLN:CG	2.49	0.69
1:D:48:ASN:HD22	2:N:348:GLN:HB3	1.54	0.69
1:B:15:GLU:CD	1:B:16:PRO:HD2	2.13	0.69
1:B:386:ASN:CG	1:B:386:ASN:O	2.30	0.69
1:E:303:THR:HG22	1:E:457:THR:HA	0.72	0.69
1:E:74:ASP:OD1	1:E:74:ASP:C	2.30	0.69
1:F:365:GLN:C	1:F:365:GLN:OE1	2.30	0.69
1:F:37:TYR:CD2	1:G:375:ASN:ND2	2.60	0.69
1:K:286:ILE:CG2	1:K:287:THR:N	2.56	0.69
1:M:102:PRO:CB	1:M:241:ILE:HD13	2.22	0.69
2:N:128:THR:O	2:N:130:TYR:N	2.26	0.69
1:B:99:ARG:NH1	1:B:243:SER:HB2	2.08	0.69
1:B:400:ASN:C	1:B:400:ASN:OD1	2.30	0.69
1:D:80:ASN:HB2	1:D:258:GLY:CA	2.22	0.69
1:I:155:GLN:HG2	1:I:413:GLU:H	1.56	0.69
1:J:340:ASN:C	1:J:340:ASN:OD1	2.30	0.69
1:M:318:GLN:HE21	1:M:318:GLN:N	1.91	0.69
1:M:505:ARG:HG2	1:M:506:ILE:N	2.06	0.69
1:G:408:LYS:H	1:G:408:LYS:NZ	1.91	0.69
1:I:1:MET:HE1	1:J:26:TRP:HB3	1.71	0.69
1:K:361:TRP:HZ3	1:K:441:LEU:HB2	1.58	0.69
1:A:113:THR:HG23	1:A:229:THR:HG23	1.74	0.68
1:A:83:HIS:CB	1:A:254:ASN:HD21	2.06	0.68
1:B:305:ALA:HB2	1:B:455:THR:HB	1.72	0.68
1:C:125:GLN:H	1:C:125:GLN:HE21	1.38	0.68
1:C:21:ASN:H	1:C:21:ASN:HD22	1.40	0.68
1:C:460:MET:CG	1:C:461:TYR:N	2.56	0.68
1:C:165:ASN:CB	1:D:174:ALA:O	2.41	0.68
1:D:251:VAL:O	1:D:251:VAL:HG23	1.93	0.68
1:D:351:PHE:CE2	1:D:416:ILE:HG21	2.29	0.68
1:D:502:GLU:OE2	1:D:503:LEU:HD23	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:282:ILE:HD12	1:E:283:PRO:HD2	1.75	0.68
1:F:211:PRO:HB2	1:F:212:PHE:CE2	2.27	0.68
1:G:155:GLN:HG2	1:G:451:ASN:CB	2.22	0.68
1:H:153:ASN:HD22	1:H:154:TYR:N	1.91	0.68
1:K:26:TRP:HB3	1:M:1:MET:HE3	1.73	0.68
1:K:341:LEU:HA	1:K:344:GLN:HE21	1.57	0.68
2:N:157:PRO:C	2:N:158:VAL:HG23	2.13	0.68
1:E:172:THR:O	1:E:173:SER:CB	2.40	0.68
1:E:43:THR:O	1:E:44:SER:OG	2.07	0.68
1:G:255:SER:OG	1:G:342:ASN:HB2	1.93	0.68
1:H:58:SER:OG	1:H:60:GLN:NE2	2.22	0.68
1:I:71:VAL:HG13	1:I:205:GLU:OE2	1.93	0.68
1:I:251:VAL:HG13	1:I:252:SER:N	2.08	0.68
1:J:301:GLN:H	1:J:301:GLN:CD	1.95	0.68
1:L:430:ASP:C	1:L:430:ASP:OD1	2.30	0.68
2:N:45:VAL:HG23	2:N:332:ILE:HD12	1.75	0.68
1:B:208:PHE:O	1:B:209:LEU:CB	2.40	0.68
1:B:461:TYR:O	1:B:462:ILE:CD1	2.30	0.68
1:C:163:ALA:HB2	1:D:172:THR:HB	1.74	0.68
1:C:362:ASN:N	1:C:362:ASN:ND2	2.37	0.68
1:D:210:PRO:HA	1:D:211:PRO:C	2.14	0.68
1:E:87:THR:O	1:E:88:GLU:CB	2.33	0.68
1:F:136:PRO:HD2	1:F:139:VAL:HB	1.75	0.68
1:H:240:ARG:HG3	1:H:240:ARG:O	1.92	0.68
1:B:209:LEU:CG	1:B:210:PRO:N	2.56	0.68
1:B:155:GLN:HG3	1:B:412:LEU:N	2.08	0.68
1:B:461:TYR:N	1:B:461:TYR:CD2	2.62	0.68
1:C:237:ASN:HD21	1:C:344:GLN:NE2	1.81	0.68
1:C:329:PHE:HB3	1:C:416:ILE:HG13	1.74	0.68
1:D:501:ASN:N	1:D:501:ASN:HD22	1.92	0.68
1:D:5:ALA:HB3	1:D:6:ILE:HD13	1.75	0.68
1:G:350:VAL:HB	1:G:413:GLU:HB2	1.74	0.68
1:H:143:TRP:CZ3	1:H:216:GLY:HA2	2.29	0.68
1:H:216:GLY:O	1:H:217:GLU:C	2.30	0.68
1:H:155:GLN:HG2	1:H:451:ASN:HB3	1.75	0.68
1:B:337:ILE:HD13	1:B:338:TYR:HA	1.74	0.68
1:C:507:TYR:CD2	1:C:508:GLY:HA3	2.28	0.68
1:F:143:TRP:O	1:F:145:SER:N	2.27	0.68
1:C:41:PRO:O	1:G:44:SER:CB	2.41	0.68
1:H:8:LEU:H	1:H:8:LEU:HD23	1.59	0.68
1:I:345:ILE:HG22	1:I:346:THR:N	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:85:GLY:O	1:I:86:ILE:HD13	1.93	0.68
1:J:107:THR:HG1	1:J:232:TRP:HE3	1.40	0.68
1:K:224:ASN:ND2	1:K:224:ASN:N	2.40	0.68
1:K:33:GLN:O	1:K:34:GLN:HB2	1.93	0.68
1:M:158:ARG:HG3	1:M:159:ASP:N	2.06	0.68
1:B:89:ASN:ND2	1:D:403:SER:N	2.40	0.68
1:C:293:LEU:HD23	1:C:465:VAL:HB	1.74	0.68
1:B:401:GLY:HA2	1:C:89:ASN:HB2	1.75	0.68
1:E:130:LEU:O	1:E:130:LEU:HD23	1.93	0.68
1:H:313:LYS:CG	1:H:444:GLN:HG3	2.22	0.68
1:K:436:ILE:CG1	1:K:436:ILE:O	2.40	0.68
1:B:228:LEU:HD22	1:B:229:THR:H	1.57	0.68
1:C:322:ILE:HG22	1:C:421:LEU:CD2	2.24	0.68
1:E:45:PHE:CE2	1:E:266:GLN:HA	2.29	0.68
1:E:353:GLN:O	1:E:353:GLN:HG3	1.93	0.68
1:G:65:ARG:CG	1:G:65:ARG:HH11	2.07	0.68
1:H:345:ILE:HG13	1:H:346:THR:CG2	2.21	0.68
1:I:345:ILE:CG2	1:I:346:THR:N	2.56	0.68
1:K:174:ALA:O	1:L:165:ASN:HB3	1.92	0.68
1:K:357:LEU:HD11	1:K:359:LEU:HD23	1.74	0.68
1:G:337:ILE:O	1:G:338:TYR:CD2	2.46	0.68
1:I:249:ASN:HB3	1:I:255:SER:HA	1.76	0.68
1:I:87:THR:CB	1:I:88:GLU:HG2	2.23	0.68
1:I:95:ARG:NH1	1:I:95:ARG:HG3	2.07	0.68
1:J:136:PRO:O	1:J:138:LYS:N	2.26	0.68
1:L:33:GLN:HB2	1:M:427:LEU:O	1.94	0.68
1:L:327:TYR:HD1	1:L:416:ILE:HD11	1.58	0.68
2:N:61:PRO:HB3	2:N:357:ARG:HH12	1.57	0.68
1:A:265:GLN:O	1:A:267:PRO:HD3	1.94	0.68
1:E:304:LEU:CD2	1:E:304:LEU:H	2.04	0.68
1:F:409:VAL:O	1:F:410:ILE:HD13	1.94	0.68
1:H:292:LYS:O	1:H:292:LYS:HG3	1.94	0.68
1:I:83:HIS:HD2	1:I:256:THR:HG22	1.55	0.68
1:I:155:GLN:NE2	1:I:350:VAL:HG23	2.08	0.68
1:J:87:THR:HG22	1:J:88:GLU:CD	2.13	0.68
1:K:247:ILE:HD13	1:K:247:ILE:O	1.93	0.68
1:K:422:GLY:HA2	1:K:427:LEU:HD22	1.76	0.68
1:K:85:GLY:HA2	1:K:86:ILE:CG2	2.18	0.68
1:M:65:ARG:HG3	1:M:65:ARG:HH11	1.59	0.68
1:B:171:PHE:HE1	1:D:154:TYR:CZ	2.12	0.68
1:B:6:ILE:HD11	1:C:285:ARG:HD3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:19:GLU:N	1:C:19:GLU:CD	2.47	0.68
1:C:218:GLN:N	1:C:218:GLN:NE2	2.42	0.68
1:D:132:ARG:HH11	1:D:132:ARG:CG	2.07	0.68
1:E:216:GLY:O	1:E:217:GLU:HB3	1.94	0.68
1:E:438:ASN:HD21	1:L:318:GLN:HB2	1.59	0.68
1:F:503:LEU:HD23	1:F:506:ILE:HG21	1.76	0.68
1:H:313:LYS:HG3	1:H:444:GLN:HG3	1.75	0.68
1:I:501:ASN:N	1:I:501:ASN:ND2	2.41	0.68
1:I:69:ILE:HG23	1:I:205:GLU:HG2	1.75	0.68
1:K:469:THR:HG21	1:L:4:SER:CB	2.24	0.68
1:M:137:LEU:O	1:M:137:LEU:CD2	2.41	0.68
2:N:357:ARG:NH1	2:N:357:ARG:HG2	2.00	0.68
1:A:293:LEU:HB3	1:A:465:VAL:HG12	1.73	0.67
1:B:250:ASP:HB3	1:B:251:VAL:HB	1.75	0.67
1:D:70:GLN:O	1:D:70:GLN:HG2	1.94	0.67
1:E:304:LEU:CD2	1:E:304:LEU:O	2.30	0.67
1:F:65:ARG:HH11	1:F:65:ARG:HG3	1.59	0.67
1:L:323:PRO:HD2	1:L:421:LEU:HD22	1.76	0.67
1:L:361:TRP:HA	1:L:361:TRP:HE3	1.58	0.67
1:M:100:ALA:HB2	1:M:182:ARG:CD	2.24	0.67
1:M:1:MET:HG3	1:M:10:VAL:CB	2.22	0.67
1:B:363:ASN:HB3	1:B:364:GLN:HE21	1.55	0.67
1:C:3:ASN:CB	1:D:483:VAL:O	2.41	0.67
1:D:490:LEU:C	1:D:491:ASN:HD22	1.96	0.67
1:F:80:ASN:HB3	1:F:258:GLY:O	1.94	0.67
1:F:481:ILE:H	1:F:481:ILE:HD13	1.58	0.67
1:H:282:ILE:HD12	1:H:283:PRO:CD	2.24	0.67
1:J:362:ASN:C	1:J:362:ASN:HD22	1.96	0.67
1:K:95:ARG:NH1	1:K:248:THR:HG23	2.09	0.67
1:L:172:THR:O	1:L:173:SER:CB	2.41	0.67
1:M:367:ILE:HG22	1:M:368:LEU:CD1	2.05	0.67
1:B:355:ASN:O	1:B:373:SER:HB3	1.93	0.67
1:C:217:GLU:CD	1:C:217:GLU:C	2.53	0.67
1:B:17:ARG:HD2	1:D:218:GLN:HE21	1.59	0.67
1:D:71:VAL:HA	1:D:267:PRO:HB3	1.76	0.67
1:C:298:THR:OG1	1:C:315:ASN:ND2	2.27	0.67
1:C:73:TYR:CD1	1:C:203:LEU:CD2	2.77	0.67
1:I:235:ASN:HD22	1:I:236:ASN:N	1.92	0.67
1:L:353:GLN:HE21	1:L:355:ASN:ND2	1.91	0.67
1:B:165:ASN:HB2	1:C:174:ALA:O	1.94	0.67
1:B:166:ASN:ND2	1:B:167:PRO:HD2	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2:SER:O	1:D:3:ASN:HB3	1.94	0.67
1:G:341:LEU:CD1	1:G:345:ILE:HG22	2.24	0.67
1:I:359:LEU:CB	1:I:443:VAL:HG22	2.23	0.67
1:J:108:ASN:CG	1:J:235:ASN:ND2	2.43	0.67
1:J:249:ASN:O	1:J:250:ASP:CB	2.40	0.67
1:J:249:ASN:O	1:J:250:ASP:HB3	1.91	0.67
1:E:44:SER:HB3	1:J:317:VAL:HG23	1.76	0.67
1:K:496:HIS:CD2	1:K:496:HIS:O	2.48	0.67
2:N:171:THR:OG1	2:N:172:GLU:HA	1.93	0.67
1:A:115:ASN:N	1:A:116:GLY:CA	2.54	0.67
1:B:155:GLN:HG2	1:B:412:LEU:O	1.94	0.67
1:D:377:TYR:HD2	1:D:392:PHE:HD2	1.35	0.67
1:G:493:ARG:HH11	1:G:493:ARG:HB2	1.58	0.67
1:J:105:SER:HB2	1:J:128:HIS:HE1	1.59	0.67
1:M:98:PHE:O	1:M:182:ARG:HD2	1.95	0.67
2:N:219:ARG:HG2	2:N:219:ARG:NH1	1.93	0.67
1:C:367:ILE:H	1:C:367:ILE:HD13	1.57	0.67
1:C:435:VAL:HG22	1:C:486:LYS:HE3	1.75	0.67
1:D:51:ASN:HD22	2:N:293:GLN:HB3	1.60	0.67
1:H:345:ILE:CG1	1:H:346:THR:N	2.58	0.67
1:L:334:ASP:OD2	1:L:334:ASP:C	2.32	0.67
1:A:58:SER:O	1:A:59:ALA:HB3	1.93	0.67
1:C:249:ASN:HD22	1:C:250:ASP:N	1.91	0.67
1:C:26:TRP:HB3	1:D:1:MET:HE3	1.77	0.67
1:D:3:ASN:C	1:D:3:ASN:ND2	2.46	0.67
1:E:350:VAL:HG21	1:E:413:GLU:HA	1.77	0.67
1:E:99:ARG:HH11	1:E:99:ARG:CG	1.90	0.67
1:J:110:LEU:HD11	1:J:207:VAL:HG22	1.75	0.67
1:I:471:VAL:CG2	1:J:5:ALA:HB3	2.17	0.67
1:L:430:ASP:OD2	1:L:489:VAL:HB	1.95	0.67
2:N:186:THR:CG2	2:N:226:ARG:CG	2.72	0.67
1:C:392:PHE:O	1:C:393:ASN:ND2	2.25	0.67
1:G:190:VAL:HG22	1:G:191:THR:HG23	1.75	0.67
1:L:161:ASP:CG	1:L:162:GLY:H	1.98	0.67
1:M:85:GLY:HA2	1:M:86:ILE:CG2	2.24	0.67
2:N:84:ILE:C	2:N:85:TYR:CD2	2.67	0.67
1:A:336:VAL:HA	1:A:339:GLN:HE21	1.60	0.67
1:B:108:ASN:HD22	1:B:109:THR:HG22	1.57	0.67
1:B:192:ASN:O	1:B:193:THR:HG22	1.95	0.67
1:B:299:GLN:OE1	1:B:299:GLN:HA	1.93	0.67
1:B:386:ASN:O	1:B:387:LYS:CD	2.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:480:SER:HB2	1:M:363:ASN:O	1.95	0.67
1:D:249:ASN:ND2	1:D:253:GLY:HA3	2.09	0.67
1:E:228:LEU:O	1:E:229:THR:HG22	1.94	0.67
1:E:45:PHE:CD2	1:E:266:GLN:CA	2.72	0.67
1:F:507:TYR:HE1	1:F:508:GLY:O	1.75	0.67
1:G:158:ARG:HH11	1:G:158:ARG:HB2	1.60	0.67
1:J:134:HIS:HD2	1:J:507:TYR:CG	2.12	0.67
1:K:41:PRO:HB2	1:K:266:GLN:HE21	1.60	0.67
1:K:59:ALA:C	1:K:60:GLN:NE2	2.48	0.67
1:L:45:PHE:CE2	1:L:266:GLN:HB3	2.30	0.67
1:M:237:ASN:ND2	1:M:238:LEU:N	2.30	0.67
1:C:65:ARG:HB2	1:C:213:LEU:CD2	2.25	0.66
1:H:106:ILE:HD11	1:H:241:ILE:HG13	1.76	0.66
1:J:209:LEU:O	1:J:209:LEU:CD2	2.30	0.66
1:M:172:THR:O	1:M:173:SER:CB	2.43	0.66
1:D:171:PHE:HD1	1:D:172:THR:N	1.94	0.66
1:E:45:PHE:HE2	1:E:266:GLN:H	1.43	0.66
1:F:364:GLN:CG	1:F:367:ILE:HD12	2.20	0.66
1:M:132:ARG:NH1	1:M:132:ARG:HG3	2.00	0.66
1:B:147:GLN:HE22	1:B:206:GLN:HG2	1.58	0.66
1:C:324:ARG:CG	1:C:324:ARG:HH11	1.97	0.66
1:E:153:ASN:HD22	1:E:153:ASN:H	1.42	0.66
1:E:1:MET:CE	1:F:26:TRP:HB3	2.26	0.66
1:E:430:ASP:HB3	1:E:490:LEU:HD12	1.76	0.66
1:G:107:THR:OG1	1:G:234:LEU:HD22	1.94	0.66
1:H:89:ASN:HB3	1:H:192:ASN:HD21	1.60	0.66
1:H:59:ALA:O	1:H:60:GLN:CB	2.40	0.66
1:I:191:THR:O	1:I:192:ASN:HB2	1.96	0.66
1:I:285:ARG:CB	1:I:473:SER:OG	2.37	0.66
1:K:132:ARG:O	1:K:386:ASN:ND2	2.28	0.66
1:L:1:MET:SD	1:M:26:TRP:CD1	2.88	0.66
1:L:332:GLN:HG2	1:L:456:VAL:HG21	1.76	0.66
1:A:61:THR:O	1:A:61:THR:CG2	2.43	0.66
1:C:65:ARG:HB2	1:C:213:LEU:HD21	1.76	0.66
1:C:251:VAL:O	1:C:252:SER:CB	2.44	0.66
1:C:381:VAL:CG2	1:C:382:GLN:N	2.57	0.66
1:C:495:THR:C	1:C:497:GLY:H	1.97	0.66
1:E:140:LYS:CG	1:E:179:GLU:OE2	2.44	0.66
1:G:23:GLU:OE2	1:G:23:GLU:HA	1.93	0.66
1:H:350:VAL:C	1:H:351:PHE:CD1	2.60	0.66
1:I:441:LEU:CD1	1:I:442:GLN:CA	2.73	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:87:THR:HG23	1:J:88:GLU:HA	1.77	0.66
1:K:15:GLU:CD	1:K:16:PRO:HD2	2.16	0.66
1:K:46:SER:OG	1:K:47:SER:N	2.28	0.66
1:L:339:GLN:O	1:L:340:ASN:CB	2.43	0.66
1:G:41:PRO:O	1:L:44:SER:CA	2.41	0.66
1:K:427:LEU:O	1:M:33:GLN:HB3	1.95	0.66
2:N:274:ILE:HD11	2:N:296:LEU:HD22	1.77	0.66
1:A:337:ILE:O	1:A:337:ILE:HG12	1.94	0.66
1:B:6:ILE:HD11	1:C:285:ARG:CG	2.26	0.66
1:C:88:GLU:O	1:C:194:THR:HG23	1.95	0.66
1:C:255:SER:HB2	1:C:342:ASN:ND2	2.11	0.66
1:C:95:ARG:HG2	1:C:95:ARG:HH11	1.61	0.66
1:D:108:ASN:OD1	1:D:235:ASN:HA	1.96	0.66
1:D:132:ARG:HH12	1:D:151:GLU:CG	2.08	0.66
1:B:171:PHE:HE1	1:D:154:TYR:HH	1.41	0.66
1:E:258:GLY:N	1:E:341:LEU:HD11	2.09	0.66
1:E:321:SER:HB3	1:E:435:VAL:O	1.94	0.66
1:G:151:GLU:HA	1:G:151:GLU:OE2	1.94	0.66
1:G:42:SER:O	1:G:266:GLN:OE1	2.13	0.66
1:H:349:ASP:C	1:H:350:VAL:CG2	2.63	0.66
1:K:296:TYR:CD2	1:K:296:TYR:N	2.63	0.66
1:K:73:TYR:HE2	1:K:199:ILE:HD11	1.60	0.66
1:M:249:ASN:CB	1:M:255:SER:HA	2.18	0.66
2:N:129:PRO:HA	2:N:132:TYR:CE2	2.30	0.66
1:D:48:ASN:HD22	2:N:348:GLN:CB	2.06	0.66
2:N:22:ILE:HG23	2:N:359:LEU:HB3	1.77	0.66
1:A:89:ASN:OD1	1:A:193:THR:HA	1.96	0.66
1:D:42:SER:CB	1:D:52:PHE:CE1	2.78	0.66
1:F:84:ALA:HA	1:F:86:ILE:HB	1.78	0.66
1:H:449:ASN:HD22	1:H:450:THR:H	1.41	0.66
1:I:108:ASN:OD1	1:I:235:ASN:HB3	1.95	0.66
1:A:350:VAL:HB	1:A:413:GLU:HB2	1.78	0.66
1:B:95:ARG:O	1:B:168:LEU:HD11	1.95	0.66
1:C:99:ARG:HD3	1:C:243:SER:HB3	1.78	0.66
1:C:286:ILE:HD11	1:C:288:TYR:CE2	2.31	0.66
1:E:127:ILE:HG23	1:E:128:HIS:ND1	2.10	0.66
1:F:409:VAL:O	1:F:410:ILE:CD1	2.44	0.66
1:H:490:LEU:HB3	1:H:491:ASN:HD22	1.59	0.66
1:I:349:ASP:OD2	1:I:350:VAL:HA	1.95	0.66
1:K:2:SER:O	1:K:3:ASN:HB3	1.95	0.66
1:K:437:GLY:O	1:K:439:PHE:CD2	2.49	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:442:GLN:HG3	1:K:442:GLN:O	1.96	0.66
1:B:96:ASP:OD1	1:B:244:HIS:CD2	2.49	0.66
1:B:396:THR:H	1:B:410:ILE:HD13	1.51	0.66
1:B:155:GLN:CG	1:B:412:LEU:N	2.59	0.66
1:C:70:GLN:C	1:C:70:GLN:HE21	1.99	0.66
1:D:208:PHE:O	1:D:214:TRP:CZ3	2.49	0.66
1:D:507:TYR:CZ	1:D:508:GLY:O	2.49	0.66
1:E:231:ASN:N	1:E:231:ASN:ND2	2.40	0.66
1:H:328:LEU:HD22	1:H:462:ILE:CD1	2.25	0.66
1:H:428:ARG:HD3	1:H:428:ARG:O	1.94	0.66
1:I:431:GLU:OE2	1:I:431:GLU:N	2.29	0.66
1:K:483:VAL:HG11	1:L:4:SER:CB	2.07	0.66
1:B:295:ARG:HG3	1:B:295:ARG:HH11	1.60	0.66
1:B:333:SER:CB	1:B:336:VAL:HG21	2.22	0.66
1:B:89:ASN:H	1:B:89:ASN:ND2	1.92	0.66
1:E:158:ARG:HH11	1:E:158:ARG:HG2	1.61	0.66
1:E:1:MET:HE3	1:F:26:TRP:HB3	1.77	0.66
1:E:399:PHE:HA	1:E:407:THR:HB	1.78	0.66
1:L:356:ASN:OD1	1:L:357:LEU:N	2.29	0.66
1:A:361:TRP:CE3	1:A:361:TRP:HA	2.29	0.66
1:C:150:PHE:HD1	1:C:179:GLU:HG2	1.61	0.66
1:D:133:TYR:HB2	1:D:134:HIS:HA	1.76	0.66
1:D:140:LYS:HG2	1:D:179:GLU:CD	2.16	0.66
1:D:427:LEU:HD12	1:D:431:GLU:CD	2.15	0.66
1:E:303:THR:HG22	1:E:457:THR:N	2.09	0.66
1:G:15:GLU:OE1	1:G:16:PRO:HD2	1.96	0.66
1:H:121:ILE:HB	1:H:209:LEU:HD11	1.78	0.66
1:H:336:VAL:CG2	1:H:337:ILE:H	2.09	0.66
1:I:328:LEU:H	1:I:328:LEU:HD12	1.61	0.66
1:A:34:GLN:NE2	1:J:364:GLN:HB2	2.10	0.66
1:M:330:VAL:HG21	1:M:447:VAL:HG11	1.78	0.66
1:B:203:LEU:H	1:B:203:LEU:HD23	1.61	0.65
1:B:87:THR:O	1:B:88:GLU:HB2	1.95	0.65
1:D:452:GLN:CA	1:D:452:GLN:HE21	2.09	0.65
1:E:165:ASN:H	1:E:165:ASN:HD22	1.42	0.65
1:E:322:ILE:HD13	1:E:439:PHE:HZ	1.59	0.65
1:G:376:LEU:CA	1:G:379:PHE:CD2	2.76	0.65
1:I:340:ASN:O	1:I:340:ASN:ND2	2.30	0.65
1:L:437:GLY:O	1:L:438:ASN:HB2	1.96	0.65
2:N:227:PHE:O	2:N:227:PHE:CD1	2.49	0.65
2:N:272:LEU:O	2:N:274:ILE:HB	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:51:ASN:HB3	1:C:231:ASN:HB2	1.76	0.65
1:E:337:ILE:O	1:E:337:ILE:HG12	1.96	0.65
1:E:11:VAL:HG22	1:F:27:VAL:HG22	1.79	0.65
1:F:351:PHE:CD1	1:F:351:PHE:N	2.63	0.65
1:J:207:VAL:O	1:J:207:VAL:HG13	1.95	0.65
1:J:45:PHE:C	1:J:45:PHE:CD1	2.69	0.65
1:K:430:ASP:CG	1:K:430:ASP:O	2.30	0.65
1:L:231:ASN:HD22	1:L:231:ASN:N	1.94	0.65
1:C:438:ASN:ND2	1:M:318:GLN:OE1	2.29	0.65
1:B:430:ASP:OD2	1:B:430:ASP:C	2.34	0.65
1:C:257:ILE:HD12	1:C:258:GLY:H	1.59	0.65
1:D:431:GLU:HG2	1:D:432:ALA:N	2.10	0.65
1:E:62:VAL:HA	1:E:223:ALA:HB2	1.77	0.65
1:F:421:LEU:HD12	1:F:425:VAL:HG21	1.77	0.65
1:G:159:ASP:OD2	1:G:160:ALA:N	2.30	0.65
1:G:1:MET:H3	1:G:2:SER:CB	2.00	0.65
1:H:212:PHE:CD1	1:H:212:PHE:N	2.58	0.65
1:H:429:ASP:OD2	1:H:430:ASP:N	2.29	0.65
1:I:362:ASN:O	1:I:362:ASN:ND2	2.30	0.65
1:J:153:ASN:ND2	1:J:153:ASN:H	1.94	0.65
1:M:237:ASN:O	1:M:239:ALA:N	2.30	0.65
1:M:385:TYR:O	1:M:386:ASN:ND2	2.30	0.65
1:B:21:ASN:N	1:B:21:ASN:HD22	1.88	0.65
1:C:206:GLN:NE2	1:C:208:PHE:CZ	2.65	0.65
1:C:84:ALA:CB	1:C:85:GLY:C	2.64	0.65
1:D:132:ARG:HH12	1:D:151:GLU:HG2	1.62	0.65
1:F:188:ASN:ND2	1:F:188:ASN:O	2.30	0.65
1:F:65:ARG:HG3	1:F:65:ARG:NH1	2.11	0.65
1:G:378:ASP:OD2	1:G:379:PHE:N	2.30	0.65
1:G:88:GLU:OE2	1:G:88:GLU:N	2.30	0.65
1:H:330:VAL:CG1	1:H:331:LYS:N	2.59	0.65
1:H:401:GLY:O	1:H:402:VAL:HB	1.95	0.65
1:H:394:GLY:O	1:H:412:LEU:HD13	1.96	0.65
1:I:372:SER:O	1:I:375:ASN:HB2	1.96	0.65
1:J:140:LYS:CG	1:J:179:GLU:CG	2.75	0.65
1:J:3:ASN:ND2	1:J:3:ASN:O	2.30	0.65
1:M:264:PHE:C	1:M:265:GLN:NE2	2.50	0.65
1:M:507:TYR:CD1	1:M:508:GLY:O	2.46	0.65
2:N:256:LEU:HD22	2:N:307:PRO:CB	2.19	0.65
1:B:108:ASN:C	1:B:108:ASN:ND2	2.41	0.65
1:B:337:ILE:O	1:B:343:ASN:HB3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:80:ASN:HB2	1:B:258:GLY:O	1.96	0.65
1:C:206:GLN:HG2	1:C:206:GLN:O	1.95	0.65
1:C:216:GLY:O	1:C:218:GLN:NE2	2.30	0.65
1:C:383:ASN:HD21	1:C:420:GLU:HG3	1.61	0.65
1:D:341:LEU:O	1:D:345:ILE:HG22	1.96	0.65
1:D:356:ASN:OD1	1:D:357:LEU:N	2.30	0.65
1:E:250:ASP:OD2	1:E:254:ASN:ND2	2.30	0.65
1:E:73:TYR:HE1	1:E:201:GLY:H	1.43	0.65
1:F:423:LYS:HG2	1:G:15:GLU:OE1	1.96	0.65
1:G:208:PHE:O	1:G:209:LEU:CB	2.37	0.65
1:G:376:LEU:HA	1:G:379:PHE:HE2	1.57	0.65
1:H:385:TYR:CE2	1:H:387:LYS:HB2	2.31	0.65
1:J:16:PRO:O	1:J:19:GLU:OE1	2.15	0.65
1:L:82:SER:O	1:L:83:HIS:C	2.35	0.65
1:M:336:VAL:HA	1:M:339:GLN:HE21	1.62	0.65
1:M:342:ASN:OD1	1:M:343:ASN:N	2.30	0.65
1:M:399:PHE:HA	1:M:407:THR:HB	1.78	0.65
1:M:438:ASN:C	1:M:439:PHE:HD2	1.97	0.65
1:M:502:GLU:OE2	1:M:503:LEU:N	2.30	0.65
2:N:132:TYR:HD2	2:N:132:TYR:N	1.95	0.65
2:N:256:LEU:CG	2:N:307:PRO:HG2	2.26	0.65
2:N:66:PRO:HG3	2:N:132:TYR:CD1	2.32	0.65
1:A:362:ASN:HB3	1:A:439:PHE:HB3	1.78	0.65
1:B:33:GLN:OE1	1:B:33:GLN:N	2.30	0.65
1:E:9:ASN:HB2	1:F:25:THR:HG22	1.78	0.65
1:F:490:LEU:O	1:F:491:ASN:ND2	2.30	0.65
1:G:21:ASN:ND2	1:G:21:ASN:H	1.88	0.65
1:G:250:ASP:OD1	1:G:251:VAL:N	2.30	0.65
1:I:381:VAL:HG12	1:I:382:GLN:N	2.10	0.65
1:J:132:ARG:HH21	1:J:132:ARG:CG	2.05	0.65
1:L:161:ASP:OD2	1:L:162:GLY:N	2.30	0.65
1:L:198:ARG:CG	1:L:198:ARG:HH11	1.93	0.65
1:L:215:ASP:OD1	1:L:217:GLU:N	2.30	0.65
1:A:332:GLN:NE2	1:A:456:VAL:HG23	2.08	0.65
1:C:218:GLN:HB2	1:D:16:PRO:HB2	1.78	0.65
1:E:73:TYR:HD1	1:E:73:TYR:H	1.43	0.65
1:F:33:GLN:OE1	1:F:33:GLN:N	2.30	0.65
1:G:73:TYR:CD2	1:G:75:ILE:CD1	2.78	0.65
1:H:330:VAL:HG12	1:H:331:LYS:N	2.12	0.65
1:H:73:TYR:CE1	1:H:203:LEU:CD2	2.79	0.65
1:I:452:GLN:NE2	1:I:452:GLN:HA	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:59:ALA:O	1:J:60:GLN:CB	2.44	0.65
1:M:367:ILE:HD12	1:M:367:ILE:N	2.07	0.65
1:B:429:ASP:OD2	1:B:430:ASP:N	2.30	0.65
1:C:286:ILE:HD12	1:C:287:THR:N	2.10	0.65
1:D:323:PRO:HG2	1:D:421:LEU:CD1	2.19	0.65
1:I:349:ASP:OD2	1:I:350:VAL:N	2.30	0.65
1:I:493:ARG:CB	1:I:493:ARG:HH11	2.10	0.65
1:K:153:ASN:H	1:K:153:ASN:ND2	1.91	0.65
1:L:362:ASN:ND2	1:L:362:ASN:O	2.30	0.65
1:M:215:ASP:OD1	1:M:217:GLU:N	2.30	0.65
1:M:236:ASN:ND2	1:M:236:ASN:O	2.30	0.65
1:B:87:THR:CB	1:B:88:GLU:OE1	2.42	0.65
1:C:217:GLU:OE2	1:C:217:GLU:N	2.30	0.65
1:C:502:GLU:OE2	1:C:503:LEU:N	2.30	0.65
1:E:127:ILE:CG2	1:E:128:HIS:ND1	2.60	0.65
1:E:250:ASP:OD2	1:E:254:ASN:N	2.30	0.65
1:E:441:LEU:HD21	1:E:443:VAL:HG23	1.78	0.65
1:I:192:ASN:ND2	1:I:192:ASN:O	2.30	0.65
1:I:342:ASN:OD1	1:I:343:ASN:N	2.30	0.65
1:I:425:VAL:CG1	1:I:426:GLY:N	2.59	0.65
1:I:501:ASN:ND2	1:I:501:ASN:H	1.94	0.65
1:J:115:ASN:OD1	1:J:226:THR:HG23	1.97	0.65
1:J:252:SER:O	1:J:254:ASN:N	2.30	0.65
1:L:339:GLN:OE1	1:L:339:GLN:N	2.30	0.65
1:L:364:GLN:NE2	1:L:365:GLN:O	2.30	0.65
1:M:159:ASP:OD1	1:M:160:ALA:N	2.30	0.65
1:M:209:LEU:CD1	1:M:210:PRO:C	2.65	0.65
1:B:108:ASN:O	1:B:108:ASN:ND2	2.30	0.65
1:C:377:TYR:O	1:C:381:VAL:CG1	2.44	0.65
1:H:212:PHE:HE2	1:H:230:PHE:CZ	2.15	0.65
1:L:257:ILE:HD13	1:L:345:ILE:HD11	1.79	0.65
1:M:332:GLN:OE1	1:M:333:SER:N	2.30	0.65
1:M:386:ASN:O	1:M:386:ASN:ND2	2.30	0.65
1:M:493:ARG:HH11	1:M:493:ARG:HG3	1.60	0.65
2:N:185:ARG:CG	2:N:224:ASP:OD1	2.45	0.65
1:B:386:ASN:O	1:B:386:ASN:ND2	2.30	0.64
1:C:208:PHE:O	1:C:214:TRP:HZ3	1.69	0.64
1:C:374:GLN:O	1:C:374:GLN:NE2	2.30	0.64
1:D:3:ASN:O	1:D:3:ASN:ND2	2.30	0.64
1:D:486:LYS:HD3	1:D:486:LYS:N	2.10	0.64
1:F:91:LEU:HA	1:F:96:ASP:OD2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:441:LEU:N	1:H:441:LEU:CD1	2.58	0.64
1:J:21:ASN:ND2	1:J:21:ASN:O	2.30	0.64
1:J:231:ASN:OD1	1:J:232:TRP:N	2.30	0.64
1:J:59:ALA:O	1:J:60:GLN:NE2	2.30	0.64
1:B:208:PHE:CE1	1:B:214:TRP:CB	2.80	0.64
1:C:332:GLN:HG2	1:C:456:VAL:CG2	2.28	0.64
1:C:429:ASP:OD2	1:C:430:ASP:N	2.30	0.64
1:C:84:ALA:CB	1:C:86:ILE:N	2.59	0.64
1:D:2:SER:O	1:D:3:ASN:ND2	2.30	0.64
1:E:428:ARG:HG2	1:E:428:ARG:NH1	2.01	0.64
1:H:340:ASN:O	1:H:344:GLN:NE2	2.30	0.64
1:H:345:ILE:CG1	1:H:346:THR:HG22	2.24	0.64
1:I:132:ARG:NH1	1:I:132:ARG:HG3	2.08	0.64
1:I:331:LYS:NZ	1:I:334:ASP:OD1	2.28	0.64
1:I:445:MET:HG2	1:I:445:MET:O	1.97	0.64
1:H:489:VAL:HG23	1:J:28:VAL:HG21	1.79	0.64
1:G:39:PRO:CD	1:L:49:GLN:NE2	2.44	0.64
1:L:62:VAL:HB	1:L:223:ALA:HB2	1.77	0.64
1:M:217:GLU:O	1:M:218:GLN:CB	2.46	0.64
2:N:335:VAL:CG1	2:N:335:VAL:O	2.44	0.64
1:C:187:MET:N	1:C:187:MET:SD	2.70	0.64
1:C:377:TYR:HE1	1:C:389:TRP:HB2	1.59	0.64
1:C:461:TYR:O	1:C:462:ILE:HG13	1.97	0.64
1:C:490:LEU:HD11	1:D:279:ASN:ND2	2.12	0.64
1:C:95:ARG:HD2	1:C:248:THR:CG2	2.28	0.64
1:D:23:GLU:HA	1:D:23:GLU:OE2	1.96	0.64
1:F:249:ASN:O	1:F:250:ASP:HB3	1.98	0.64
1:G:109:THR:CG2	1:G:110:LEU:N	2.60	0.64
1:H:407:THR:HG23	1:H:407:THR:O	1.97	0.64
1:H:428:ARG:N	1:H:431:GLU:OE1	2.30	0.64
1:J:498:VAL:HG23	1:J:499:SER:HB3	1.73	0.64
1:K:438:ASN:O	1:K:438:ASN:ND2	2.30	0.64
1:K:25:THR:HG22	1:M:9:ASN:HB3	1.78	0.64
2:N:357:ARG:HB3	2:N:357:ARG:NH1	2.11	0.64
1:B:383:ASN:N	1:B:383:ASN:OD1	2.30	0.64
1:B:299:GLN:OE1	1:B:459:ASP:HB2	1.98	0.64
1:C:438:ASN:H	1:C:438:ASN:ND2	1.91	0.64
1:D:324:ARG:CG	1:D:324:ARG:HH11	2.04	0.64
1:D:424:ASP:N	1:D:424:ASP:OD1	2.30	0.64
1:E:250:ASP:OD1	1:E:252:SER:N	2.30	0.64
1:E:398:GLN:C	1:E:398:GLN:HE21	2.01	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:438:ASN:ND2	1:E:438:ASN:O	2.30	0.64
1:J:18:LEU:O	1:J:19:GLU:CB	2.43	0.64
1:L:99:ARG:HH11	1:L:99:ARG:CG	1.97	0.64
1:A:110:LEU:HD12	1:A:111:ASN:CA	2.28	0.64
1:A:237:ASN:N	1:A:237:ASN:OD1	2.30	0.64
1:A:250:ASP:N	1:A:250:ASP:OD1	2.30	0.64
1:B:228:LEU:HD22	1:B:229:THR:N	2.13	0.64
1:B:353:GLN:HG2	1:B:353:GLN:O	1.96	0.64
1:B:357:LEU:HD13	1:B:358:ASN:O	1.98	0.64
1:B:88:GLU:N	1:B:88:GLU:OE2	2.30	0.64
1:D:380:SER:OG	1:D:383:ASN:N	2.30	0.64
1:E:254:ASN:ND2	1:E:254:ASN:N	2.40	0.64
1:F:358:ASN:C	1:F:358:ASN:OD1	2.35	0.64
1:G:374:GLN:O	1:G:374:GLN:NE2	2.30	0.64
1:I:356:ASN:OD1	1:I:357:LEU:N	2.30	0.64
1:J:84:ALA:CA	1:J:86:ILE:HB	2.26	0.64
1:M:217:GLU:N	1:M:217:GLU:OE1	2.30	0.64
1:M:92:GLN:HB3	1:M:93:PRO:HD2	1.78	0.64
2:N:179:GLN:CA	2:N:180:ALA:CB	2.74	0.64
1:B:155:GLN:HB2	1:B:411:GLY:C	2.18	0.64
1:C:92:GLN:HE22	1:C:248:THR:HG22	1.61	0.64
1:F:1:MET:CG	1:F:10:VAL:HB	2.28	0.64
1:F:282:ILE:HD12	1:F:283:PRO:HD2	1.80	0.64
1:G:246:ASP:OD1	1:G:346:THR:HG21	1.98	0.64
1:C:55:ASN:HB2	1:G:53:ILE:HD13	1.80	0.64
1:H:393:ASN:O	1:H:393:ASN:ND2	2.30	0.64
1:H:313:LYS:CG	1:H:444:GLN:CG	2.76	0.64
1:K:166:ASN:HD21	1:K:168:LEU:HD12	1.63	0.64
1:A:326:LEU:HD13	1:A:421:LEU:CD1	2.28	0.64
1:A:87:THR:N	1:A:88:GLU:OE1	2.30	0.64
1:B:166:ASN:OD1	1:B:168:LEU:N	2.30	0.64
1:B:35:VAL:HG21	1:C:17:ARG:NH2	2.13	0.64
1:C:75:ILE:HG22	1:C:76:THR:H	1.62	0.64
1:C:88:GLU:OE1	1:C:88:GLU:N	2.30	0.64
1:E:180:LEU:H	1:E:180:LEU:HD22	1.62	0.64
1:F:83:HIS:HB2	1:F:254:ASN:HB3	1.79	0.64
1:H:96:ASP:OD1	1:H:96:ASP:N	2.30	0.64
1:I:195:THR:C	1:I:196:THR:HG22	2.18	0.64
1:I:363:ASN:ND2	1:I:363:ASN:O	2.30	0.64
1:I:83:HIS:CD2	1:I:86:ILE:CG2	2.80	0.64
1:K:362:ASN:ND2	1:K:362:ASN:O	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:95:ARG:NH1	1:K:248:THR:CG2	2.61	0.64
1:C:232:TRP:CD1	1:C:232:TRP:N	2.66	0.64
1:D:106:ILE:CD1	1:D:238:LEU:HA	2.26	0.64
1:D:55:ASN:OD1	1:D:55:ASN:N	2.30	0.64
1:E:306:PRO:O	1:E:449:ASN:ND2	2.30	0.64
1:E:339:GLN:CB	1:E:340:ASN:ND2	2.61	0.64
1:E:349:ASP:OD2	1:E:349:ASP:N	2.30	0.64
1:E:428:ARG:CG	1:E:431:GLU:OE1	2.45	0.64
1:E:65:ARG:NH1	1:E:65:ARG:HG3	2.12	0.64
1:F:73:TYR:HD1	1:F:203:LEU:HD22	1.63	0.64
1:G:327:TYR:N	1:G:327:TYR:CD2	2.65	0.64
1:J:498:VAL:HG23	1:J:499:SER:CA	2.25	0.64
1:K:143:TRP:O	1:K:145:SER:N	2.30	0.64
1:L:355:ASN:O	1:L:373:SER:HB3	1.97	0.64
1:K:467:ASP:HB3	1:M:26:TRP:HH2	1.62	0.64
2:N:55:VAL:HG11	2:N:296:LEU:HD11	1.79	0.64
1:D:172:THR:O	1:D:173:SER:CB	2.46	0.64
1:D:393:ASN:O	1:D:393:ASN:ND2	2.30	0.64
1:G:158:ARG:HG3	1:G:159:ASP:N	2.11	0.64
1:G:342:ASN:CG	1:G:343:ASN:N	2.50	0.64
1:G:70:GLN:HG2	1:G:270:TYR:HE2	1.62	0.64
1:J:205:GLU:CD	1:J:232:TRP:CZ3	2.71	0.64
1:B:2:SER:HB3	1:B:3:ASN:ND2	2.13	0.64
1:B:339:GLN:OE1	1:B:340:ASN:ND2	2.30	0.64
1:B:429:ASP:O	1:B:430:ASP:CB	2.46	0.64
1:D:299:GLN:OE1	1:D:335:ASN:ND2	2.31	0.64
1:E:428:ARG:HG2	1:E:431:GLU:OE1	1.98	0.64
1:E:65:ARG:HG3	1:E:65:ARG:HH11	1.63	0.64
1:G:351:PHE:CE2	1:G:416:ILE:HG21	2.32	0.64
1:H:106:ILE:HD12	1:H:241:ILE:HD11	1.79	0.64
1:H:305:ALA:HB2	1:H:455:THR:HA	1.80	0.64
1:I:222:LEU:O	1:I:222:LEU:HG	1.96	0.64
1:I:433:GLU:OE2	1:I:433:GLU:CA	2.30	0.64
1:J:416:ILE:O	1:J:416:ILE:HG12	1.98	0.64
1:H:1:MET:N	1:J:484:ALA:HA	2.13	0.64
2:N:168:ASP:OD2	2:N:169:SER:N	2.30	0.64
2:N:173:LYS:HG2	2:N:251:GLN:HG2	1.80	0.64
2:N:322:ARG:HH11	2:N:322:ARG:CG	2.09	0.64
2:N:44:ILE:CB	2:N:332:ILE:HD11	2.25	0.64
1:A:428:ARG:HH11	1:A:428:ARG:CG	2.12	0.63
1:B:332:GLN:CD	1:B:456:VAL:HG23	2.18	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:380:SER:OG	1:E:384:GLY:N	2.31	0.63
1:F:507:TYR:CD1	1:F:508:GLY:C	2.71	0.63
1:G:158:ARG:HH11	1:G:158:ARG:CB	2.11	0.63
1:H:108:ASN:C	1:H:108:ASN:HD22	2.02	0.63
1:I:83:HIS:CD2	1:I:256:THR:CG2	2.80	0.63
1:L:21:ASN:H	1:L:21:ASN:ND2	1.95	0.63
1:L:43:THR:O	1:L:44:SER:HB2	1.96	0.63
1:B:187:MET:N	1:D:397:GLN:NE2	2.45	0.63
1:C:494:ILE:HD13	1:C:495:THR:H	1.54	0.63
1:E:23:GLU:CD	1:E:23:GLU:H	2.01	0.63
1:G:106:ILE:HD12	1:G:240:ARG:HB3	1.80	0.63
1:H:405:GLN:HE21	1:H:406:PRO:HD2	1.62	0.63
1:I:121:ILE:CG2	1:I:123:LEU:HD12	2.26	0.63
1:M:341:LEU:O	1:M:341:LEU:HD12	1.96	0.63
1:B:76:THR:HG22	1:B:198:ARG:HD3	1.79	0.63
1:C:326:LEU:C	1:C:327:TYR:HD1	2.01	0.63
1:E:295:ARG:HH11	1:E:297:THR:CG2	2.11	0.63
1:G:374:GLN:CD	1:G:374:GLN:C	2.56	0.63
1:I:155:GLN:NE2	1:I:350:VAL:CG2	2.61	0.63
1:I:190:VAL:CG2	1:I:198:ARG:HB3	2.28	0.63
1:L:80:ASN:HB3	1:L:258:GLY:O	1.98	0.63
2:N:75:TYR:CD2	2:N:76:PRO:HA	2.33	0.63
1:A:474:ASN:CG	1:A:474:ASN:O	2.37	0.63
1:B:190:VAL:C	1:B:191:THR:HG22	2.16	0.63
1:C:147:GLN:HG2	1:C:205:GLU:HA	1.81	0.63
1:C:95:ARG:CD	1:C:248:THR:HG23	2.28	0.63
1:F:379:PHE:O	1:F:379:PHE:CG	2.51	0.63
1:H:428:ARG:CB	1:H:431:GLU:OE1	2.47	0.63
1:I:490:LEU:HD22	1:I:490:LEU:O	1.97	0.63
1:I:91:LEU:HB2	1:I:192:ASN:ND2	2.13	0.63
1:J:87:THR:HG21	1:J:88:GLU:HG3	1.69	0.63
1:M:264:PHE:C	1:M:265:GLN:HE21	2.01	0.63
2:N:24:PHE:C	2:N:24:PHE:CD1	2.71	0.63
2:N:55:VAL:HG11	2:N:296:LEU:CD1	2.28	0.63
1:A:101:PHE:HB3	1:A:147:GLN:HG3	1.79	0.63
1:A:137:LEU:O	1:A:137:LEU:HD22	1.97	0.63
1:B:212:PHE:H	1:B:212:PHE:HD1	0.77	0.63
1:C:188:ASN:OD1	1:C:188:ASN:N	2.30	0.63
1:D:380:SER:CB	1:D:383:ASN:CB	2.77	0.63
1:C:402:VAL:HA	1:D:88:GLU:CD	2.19	0.63
1:I:499:SER:CB	1:I:501:ASN:HD21	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:73:TYR:CE2	1:K:199:ILE:CD1	2.73	0.63
1:J:57:PRO:CB	1:L:363:ASN:ND2	2.59	0.63
1:M:361:TRP:CH2	1:M:427:LEU:HD12	2.33	0.63
2:N:24:PHE:HE2	2:N:355:PRO:HA	1.58	0.63
1:A:83:HIS:HB2	1:A:251:VAL:HG21	1.81	0.63
1:C:332:GLN:HG2	1:C:456:VAL:HG23	1.79	0.63
1:D:436:ILE:HG12	1:D:437:GLY:CA	2.29	0.63
1:G:365:GLN:O	1:G:365:GLN:HG2	1.99	0.63
1:H:341:LEU:O	1:H:345:ILE:HG23	1.99	0.63
1:L:429:ASP:OD2	1:L:430:ASP:N	2.31	0.63
1:M:334:ASP:HA	1:M:337:ILE:HG12	1.79	0.63
1:M:503:LEU:O	1:M:506:ILE:HG23	1.99	0.63
2:N:36:PHE:CE1	2:N:335:VAL:HG13	2.32	0.63
2:N:336:ASP:OD2	2:N:336:ASP:N	2.30	0.63
1:B:111:ASN:OD1	1:B:112:ALA:N	2.31	0.63
1:B:351:PHE:CD1	1:B:351:PHE:N	2.67	0.63
1:C:483:VAL:N	1:C:484:ALA:HB2	2.11	0.63
1:D:95:ARG:HH12	1:D:247:ILE:HD12	1.63	0.63
1:E:301:GLN:HB2	1:E:302:ASN:HA	1.81	0.63
1:G:106:ILE:HG12	1:G:238:LEU:HD12	1.80	0.63
1:G:216:GLY:HA2	1:G:217:GLU:C	2.19	0.63
1:G:318:GLN:CB	1:G:440:ASN:HB3	2.28	0.63
1:G:341:LEU:CD1	1:G:345:ILE:CG2	2.76	0.63
1:I:194:THR:C	1:I:195:THR:CG2	2.58	0.63
1:K:30:LYS:HG3	1:K:30:LYS:O	1.99	0.63
1:L:498:VAL:CG2	1:L:499:SER:N	2.61	0.63
1:A:155:GLN:HG2	1:A:413:GLU:H	1.62	0.63
1:B:167:PRO:HD2	1:B:168:LEU:H	1.63	0.63
1:C:488:GLU:OE2	1:C:489:VAL:CA	2.46	0.63
1:D:215:ASP:OD1	1:D:217:GLU:HG3	1.94	0.63
1:E:350:VAL:CG2	1:E:413:GLU:HA	2.28	0.63
1:H:341:LEU:HA	1:H:344:GLN:HG3	1.80	0.63
1:I:351:PHE:O	1:I:414:GLY:N	2.31	0.63
1:M:209:LEU:O	1:M:209:LEU:HD12	1.95	0.63
1:A:342:ASN:O	1:A:346:THR:HG23	1.99	0.63
1:A:380:SER:OG	1:A:383:ASN:N	2.31	0.63
1:B:5:ALA:HB1	1:C:285:ARG:NH1	2.13	0.63
1:C:381:VAL:HA	1:C:385:TYR:HB3	1.81	0.63
1:D:427:LEU:CG	1:D:431:GLU:OE1	2.45	0.63
1:F:305:ALA:HB2	1:F:455:THR:HA	1.80	0.63
1:G:107:THR:HG22	1:G:107:THR:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:324:ARG:NH1	1:G:324:ARG:HG2	1.97	0.63
1:L:429:ASP:OD2	1:L:430:ASP:CB	2.46	0.63
1:M:137:LEU:O	1:M:137:LEU:HD22	1.98	0.63
1:A:133:TYR:CZ	1:A:418:CYS:HB3	2.34	0.62
1:B:73:TYR:HD2	1:B:73:TYR:C	2.02	0.62
1:C:39:PRO:HB3	1:C:270:TYR:CZ	2.34	0.62
1:D:80:ASN:HB2	1:D:258:GLY:HA3	1.79	0.62
1:C:426:GLY:CA	1:D:33:GLN:O	2.40	0.62
1:F:109:THR:HG23	1:F:233:VAL:HG13	1.80	0.62
1:G:196:THR:CG2	1:G:197:ALA:N	2.62	0.62
1:I:43:THR:O	1:I:44:SER:HB3	1.97	0.62
1:A:226:THR:HG21	1:A:475:THR:CG2	2.29	0.62
1:D:334:ASP:O	1:D:336:VAL:O	2.16	0.62
1:G:378:ASP:HA	1:G:381:VAL:CG1	2.28	0.62
1:H:302:ASN:H	1:H:302:ASN:HD22	1.47	0.62
1:H:416:ILE:HG12	1:H:416:ILE:O	1.98	0.62
1:I:359:LEU:HD21	1:I:419:LEU:HD11	1.80	0.62
2:N:104:ASP:HB2	2:N:107:LEU:HD11	1.80	0.62
2:N:308:GLU:HB2	2:N:311:ILE:HB	1.82	0.62
2:N:335:VAL:HG12	2:N:335:VAL:O	1.99	0.62
1:A:122:GLU:O	1:A:126:ILE:HB	1.99	0.62
1:A:393:ASN:O	1:A:393:ASN:CG	2.37	0.62
1:C:84:ALA:HB1	1:C:86:ILE:CG2	2.29	0.62
1:D:132:ARG:NH1	1:D:151:GLU:HG2	2.14	0.62
1:D:155:GLN:OE1	1:D:451:ASN:HB2	2.00	0.62
1:D:501:ASN:HD22	1:D:502:GLU:H	1.47	0.62
1:E:295:ARG:HH11	1:E:297:THR:HG21	1.65	0.62
1:F:266:GLN:OE1	1:F:266:GLN:HA	1.99	0.62
1:F:421:LEU:HD12	1:F:425:VAL:CG2	2.29	0.62
1:G:76:THR:HG22	1:G:198:ARG:HG3	1.82	0.62
1:A:190:VAL:HG23	1:A:191:THR:HG23	1.81	0.62
1:A:401:GLY:O	1:A:402:VAL:HG22	1.99	0.62
1:B:188:ASN:C	1:B:188:ASN:OD1	2.37	0.62
1:B:305:ALA:HB2	1:B:455:THR:CA	2.28	0.62
1:E:107:THR:O	1:E:124:ALA:HB2	1.99	0.62
1:E:21:ASN:ND2	1:E:21:ASN:O	2.32	0.62
1:E:323:PRO:C	1:E:433:GLU:OE1	2.37	0.62
1:F:33:GLN:HB3	1:G:427:LEU:O	2.00	0.62
1:I:326:LEU:CD1	1:I:421:LEU:CD2	2.77	0.62
1:K:19:GLU:HB3	1:K:20:LEU:HA	1.80	0.62
1:M:470:LEU:HG	1:M:470:LEU:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:357:ARG:NH1	2:N:357:ARG:HB2	2.15	0.62
1:A:401:GLY:O	1:A:402:VAL:CG2	2.47	0.62
1:A:449:ASN:HD22	1:A:450:THR:N	1.97	0.62
1:B:169:GLY:H	1:B:181:PRO:HB2	1.64	0.62
1:C:89:ASN:HB3	1:C:192:ASN:ND2	2.14	0.62
1:C:87:THR:O	1:C:88:GLU:HB2	1.99	0.62
1:H:73:TYR:CE1	1:H:201:GLY:O	2.51	0.62
1:I:435:VAL:HG21	1:I:486:LYS:HG3	1.82	0.62
1:E:235:ASN:ND2	1:J:108:ASN:HD21	1.85	0.62
1:L:21:ASN:HD22	1:L:21:ASN:N	1.95	0.62
1:L:423:LYS:HA	1:M:15:GLU:OE2	2.00	0.62
2:N:185:ARG:HB3	2:N:226:ARG:NH2	2.14	0.62
1:E:314:SER:O	1:E:442:GLN:NE2	2.30	0.62
1:E:359:LEU:HB2	1:E:443:VAL:HG22	1.81	0.62
1:F:92:GLN:HB2	1:F:95:ARG:HB2	1.82	0.62
1:I:28:VAL:HG23	1:J:432:ALA:CB	2.30	0.62
1:I:326:LEU:CD1	1:I:421:LEU:HD21	2.30	0.62
1:J:339:GLN:CG	1:J:339:GLN:O	2.47	0.62
1:J:498:VAL:HB	1:J:499:SER:HB2	1.73	0.62
1:K:179:GLU:CD	1:M:177:LEU:HD23	2.19	0.62
1:L:429:ASP:CB	1:L:430:ASP:HA	2.28	0.62
1:A:172:THR:O	1:A:173:SER:HB2	2.00	0.62
1:C:118:PRO:HG2	1:M:369:SER:HB2	1.82	0.62
1:C:327:TYR:O	1:C:328:LEU:HD22	1.96	0.62
1:C:342:ASN:N	1:C:342:ASN:OD1	2.30	0.62
1:D:5:ALA:HB1	1:D:6:ILE:HD13	1.80	0.62
1:F:87:THR:O	1:F:88:GLU:CG	2.48	0.62
1:G:100:ALA:HB2	1:G:182:ARG:CD	2.28	0.62
1:H:152:ASP:OD1	1:H:348:PRO:HB2	2.00	0.62
1:H:212:PHE:N	1:H:212:PHE:HD1	1.96	0.62
1:J:65:ARG:CG	1:J:65:ARG:HH11	2.09	0.62
1:M:92:GLN:CB	1:M:95:ARG:HB2	2.20	0.62
2:N:231:ASN:ND2	2:N:248:GLN:O	2.33	0.62
2:N:322:ARG:HH11	2:N:322:ARG:HB3	1.63	0.62
2:N:73:GLN:HG3	2:N:77:ASN:OD1	1.99	0.62
1:A:62:VAL:HA	1:A:223:ALA:HB2	1.81	0.62
1:C:377:TYR:HE2	1:C:381:VAL:CG1	1.90	0.62
1:F:295:ARG:HH11	1:F:295:ARG:HG3	1.65	0.62
1:G:155:GLN:OE1	1:G:350:VAL:HG21	2.00	0.62
1:H:221:GLY:O	1:J:20:LEU:HD11	1.99	0.62
1:H:224:ASN:ND2	1:H:224:ASN:N	2.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:412:LEU:N	1:H:412:LEU:HD12	2.15	0.62
1:I:501:ASN:HD22	1:I:501:ASN:N	1.97	0.62
1:J:387:LYS:HZ3	1:J:387:LYS:HA	1.64	0.62
1:L:6:ILE:HG12	1:L:6:ILE:O	1.99	0.62
1:M:307:ASN:HA	1:M:449:ASN:O	1.99	0.62
2:N:322:ARG:HB2	2:N:322:ARG:HH11	1.62	0.62
2:N:332:ILE:HG12	2:N:332:ILE:O	2.00	0.62
2:N:64:ASN:O	2:N:65:ILE:HG13	2.00	0.62
1:C:336:VAL:HG22	1:C:337:ILE:N	2.14	0.62
1:E:484:ALA:HA	1:F:1:MET:H2	1.64	0.62
1:G:301:GLN:N	1:G:301:GLN:CD	2.45	0.62
1:H:405:GLN:NE2	1:H:406:PRO:HD2	2.12	0.62
1:H:485:SER:OG	1:H:488:GLU:HB2	2.00	0.62
1:I:353:GLN:HG3	1:I:353:GLN:O	2.00	0.62
1:J:341:LEU:HD22	1:J:341:LEU:C	2.19	0.62
1:K:125:GLN:NE2	1:K:295:ARG:HH12	1.98	0.62
1:K:361:TRP:CE3	1:K:361:TRP:HA	2.34	0.62
1:M:151:GLU:CD	1:M:151:GLU:N	2.52	0.62
1:M:337:ILE:HD12	1:M:338:TYR:CD2	2.34	0.62
2:N:357:ARG:HB3	2:N:357:ARG:HH11	1.62	0.62
2:N:77:ASN:HD22	2:N:77:ASN:C	2.02	0.62
1:C:305:ALA:CB	1:C:455:THR:HA	2.30	0.62
1:C:342:ASN:O	1:C:345:ILE:HG23	1.98	0.62
1:C:92:GLN:HE21	1:C:248:THR:HG21	1.65	0.62
1:D:502:GLU:OE2	1:D:503:LEU:HD22	2.00	0.62
1:F:79:ALA:HB3	1:F:195:THR:HA	1.82	0.62
1:F:405:GLN:CD	1:F:405:GLN:H	2.02	0.62
1:L:385:TYR:CE2	1:L:387:LYS:HB3	2.34	0.62
1:M:395:VAL:HG13	1:M:450:THR:HB	1.82	0.62
1:B:461:TYR:H	1:B:461:TYR:HD2	1.47	0.61
1:C:23:GLU:CA	1:C:23:GLU:OE2	2.48	0.61
1:F:192:ASN:C	1:F:192:ASN:ND2	2.52	0.61
1:I:283:PRO:HG2	1:I:286:ILE:HG22	1.82	0.61
1:J:158:ARG:CG	1:J:158:ARG:HH11	2.12	0.61
1:L:83:HIS:HD2	1:L:85:GLY:HA3	1.62	0.61
1:M:172:THR:O	1:M:173:SER:HB2	2.00	0.61
2:N:185:ARG:HB3	2:N:226:ARG:HH21	1.65	0.61
1:A:420:GLU:HB3	1:A:423:LYS:HB3	1.81	0.61
1:D:249:ASN:HD21	1:D:253:GLY:HA3	1.63	0.61
1:D:71:VAL:CB	1:D:267:PRO:HB3	2.30	0.61
1:E:1:MET:H1	1:G:484:ALA:HA	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:49:GLN:HG2	1:H:232:TRP:O	2.00	0.61
1:J:18:LEU:N	1:J:18:LEU:HD22	2.15	0.61
1:K:59:ALA:C	1:K:60:GLN:HE21	2.02	0.61
1:C:327:TYR:CA	1:C:328:LEU:HD23	2.30	0.61
1:E:235:ASN:HD21	1:J:108:ASN:ND2	1.96	0.61
1:E:324:ARG:HD3	1:E:467:ASP:OD1	2.00	0.61
1:F:285:ARG:HH11	1:F:285:ARG:HG3	1.65	0.61
1:H:172:THR:O	1:H:173:SER:HB2	2.00	0.61
1:H:318:GLN:HG3	1:H:440:ASN:HB3	1.83	0.61
1:H:155:GLN:HG3	1:H:451:ASN:CB	2.30	0.61
1:K:391:GLU:O	1:K:413:GLU:O	2.18	0.61
1:L:229:THR:O	1:L:230:PHE:CG	2.53	0.61
1:M:313:LYS:CE	1:M:442:GLN:NE2	2.63	0.61
1:B:87:THR:O	1:B:88:GLU:CB	2.46	0.61
1:E:1:MET:SD	1:E:10:VAL:HA	2.41	0.61
1:E:182:ARG:HH11	1:E:182:ARG:CG	2.08	0.61
1:F:1:MET:HG3	1:F:10:VAL:HB	1.82	0.61
1:F:325:LYS:NZ	1:F:420:GLU:OE2	2.32	0.61
1:H:63:LEU:HD11	1:H:271:LEU:HD12	1.80	0.61
1:I:264:PHE:C	1:I:265:GLN:NE2	2.54	0.61
1:I:377:TYR:CE2	1:I:381:VAL:HG21	2.32	0.61
1:J:134:HIS:O	1:J:135:THR:CB	2.48	0.61
1:L:332:GLN:CG	1:L:456:VAL:HG23	2.30	0.61
1:L:506:ILE:O	1:L:506:ILE:HG22	2.00	0.61
1:A:251:VAL:HG23	1:A:253:GLY:CA	2.30	0.61
1:F:19:GLU:HB2	1:F:20:LEU:HA	1.83	0.61
1:G:366:GLY:C	1:G:367:ILE:HD12	2.20	0.61
2:N:272:LEU:HD12	2:N:272:LEU:N	2.09	0.61
1:A:250:ASP:C	1:A:251:VAL:HG22	2.21	0.61
1:D:108:ASN:O	1:D:122:GLU:OE2	2.18	0.61
1:D:106:ILE:HD11	1:D:238:LEU:CA	2.30	0.61
1:D:432:ALA:HB2	1:D:489:VAL:HG11	1.82	0.61
1:E:374:GLN:HG2	1:G:204:TYR:CE1	2.35	0.61
1:I:428:ARG:HG2	1:I:428:ARG:HH11	1.65	0.61
1:J:250:ASP:C	1:J:250:ASP:OD1	2.39	0.61
1:L:486:LYS:CD	1:L:486:LYS:H	2.14	0.61
1:M:158:ARG:HB2	1:M:246:ASP:HB3	1.81	0.61
2:N:85:TYR:O	2:N:100:PHE:CA	2.41	0.61
1:B:328:LEU:H	1:B:328:LEU:HD12	1.66	0.61
1:B:4:SER:O	1:B:5:ALA:C	2.39	0.61
1:C:480:SER:CB	1:M:363:ASN:O	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:89:ASN:ND2	1:D:402:VAL:CA	2.60	0.61
1:D:502:GLU:OE2	1:D:503:LEU:N	2.34	0.61
1:E:259:SER:HA	1:E:341:LEU:HD12	1.83	0.61
1:F:110:LEU:HD13	1:F:209:LEU:HD13	1.81	0.61
1:G:180:LEU:H	1:G:180:LEU:CD2	2.13	0.61
1:G:327:TYR:N	1:G:327:TYR:HD2	1.98	0.61
1:G:375:ASN:C	1:G:375:ASN:OD1	2.39	0.61
1:G:379:PHE:HE1	1:G:424:ASP:OD2	1.83	0.61
1:H:99:ARG:NH2	1:H:240:ARG:HH21	1.99	0.61
1:M:436:ILE:O	1:M:436:ILE:HG23	1.99	0.61
1:M:491:ASN:H	1:M:491:ASN:HD22	1.47	0.61
2:N:68:THR:HG23	2:N:133:ILE:HG22	1.83	0.61
1:B:249:ASN:ND2	1:B:254:ASN:O	2.33	0.61
1:B:364:GLN:HB2	1:B:367:ILE:HD11	1.83	0.61
1:B:353:GLN:HB2	1:B:393:ASN:HA	1.83	0.61
1:G:136:PRO:HD2	1:G:139:VAL:HB	1.81	0.61
1:G:367:ILE:HD12	1:G:367:ILE:N	2.15	0.61
1:F:89:ASN:HD21	1:G:403:SER:HA	1.66	0.61
1:H:441:LEU:H	1:H:441:LEU:CD1	2.12	0.61
1:J:98:PHE:HE1	1:J:203:LEU:HD13	1.64	0.61
1:J:395:VAL:HG22	1:J:450:THR:CG2	2.28	0.61
1:L:285:ARG:HB2	1:L:473:SER:HB2	1.81	0.61
1:A:153:ASN:HA	1:A:413:GLU:HG2	1.81	0.61
1:A:479:ALA:O	1:F:365:GLN:O	2.18	0.61
1:E:362:ASN:ND2	1:E:362:ASN:H	1.97	0.61
1:F:430:ASP:CG	1:F:490:LEU:HD13	2.21	0.61
1:F:503:LEU:HA	1:F:506:ILE:HG23	1.81	0.61
1:I:341:LEU:C	1:I:341:LEU:HD12	2.20	0.61
1:L:1:MET:H2	1:L:10:VAL:HG12	1.63	0.61
1:M:194:THR:O	1:M:195:THR:HB	2.00	0.61
1:M:102:PRO:HB3	1:M:241:ILE:CD1	2.28	0.61
1:C:292:LYS:NZ	1:M:365:GLN:OE1	2.27	0.61
1:M:65:ARG:NH1	1:M:65:ARG:HG3	2.15	0.61
1:A:305:ALA:CB	1:A:306:PRO:HA	2.17	0.61
1:B:346:THR:O	1:B:346:THR:OG1	2.14	0.61
1:E:240:ARG:CG	1:E:240:ARG:HH11	2.14	0.61
1:I:28:VAL:CG2	1:J:432:ALA:CB	2.79	0.61
1:I:3:ASN:ND2	1:I:3:ASN:C	2.54	0.61
1:J:293:LEU:HD22	1:J:465:VAL:HB	1.82	0.61
1:K:282:ILE:HD12	1:K:283:PRO:HD2	1.81	0.61
1:M:352:LEU:HD11	1:M:456:VAL:HG21	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:20:ILE:CG2	2:N:36:PHE:HE1	2.12	0.61
2:N:251:GLN:CG	2:N:254:PRO:HD3	2.31	0.61
1:A:122:GLU:HA	1:A:122:GLU:OE2	2.01	0.60
1:C:15:GLU:OE2	1:D:423:LYS:HB2	2.01	0.60
1:E:376:LEU:HD22	1:E:417:VAL:HG11	1.83	0.60
1:F:135:THR:O	1:F:386:ASN:ND2	2.29	0.60
1:G:213:LEU:CB	1:G:214:TRP:CB	2.79	0.60
1:H:342:ASN:N	1:H:342:ASN:ND2	2.48	0.60
1:L:249:ASN:O	1:L:250:ASP:CB	2.49	0.60
1:M:137:LEU:CD2	1:M:137:LEU:C	2.70	0.60
1:M:362:ASN:ND2	1:M:362:ASN:H	1.99	0.60
1:M:85:GLY:CA	1:M:86:ILE:HG22	2.31	0.60
1:A:89:ASN:OD1	1:A:193:THR:CA	2.49	0.60
1:B:342:ASN:O	1:B:346:THR:HG23	2.01	0.60
1:B:363:ASN:O	1:B:364:GLN:CD	2.39	0.60
1:C:386:ASN:HD22	1:C:387:LYS:N	1.98	0.60
1:E:413:GLU:O	1:E:413:GLU:HG3	2.01	0.60
1:F:331:LYS:HG2	1:F:332:GLN:N	2.15	0.60
1:H:208:PHE:O	1:H:209:LEU:HD12	2.00	0.60
1:J:115:ASN:OD1	1:J:226:THR:CG2	2.49	0.60
1:K:361:TRP:HA	1:K:361:TRP:HE3	1.66	0.60
1:L:209:LEU:HD13	1:L:210:PRO:O	2.01	0.60
1:M:34:GLN:HB2	1:M:275:THR:HG23	1.83	0.60
1:M:351:PHE:HD1	1:M:414:GLY:O	1.83	0.60
1:C:412:LEU:CD1	1:C:413:GLU:CB	2.79	0.60
1:D:352:LEU:HD11	1:D:456:VAL:HG11	1.83	0.60
1:E:13:VAL:HG12	1:E:14:GLN:N	2.17	0.60
1:G:109:THR:OG1	1:G:122:GLU:OE1	2.18	0.60
1:H:341:LEU:HD22	1:H:344:GLN:HG3	1.82	0.60
1:H:428:ARG:CD	1:H:429:ASP:O	2.49	0.60
1:J:18:LEU:O	1:J:19:GLU:HB3	2.00	0.60
1:J:285:ARG:HG2	1:J:286:ILE:N	2.16	0.60
2:N:128:THR:OG1	2:N:130:TYR:HB3	2.00	0.60
2:N:132:TYR:CD2	2:N:132:TYR:N	2.66	0.60
2:N:185:ARG:C	2:N:226:ARG:HE	2.03	0.60
1:A:41:PRO:HB2	1:A:266:GLN:NE2	2.17	0.60
1:C:117:PHE:CB	1:C:477:ALA:HB3	2.32	0.60
1:D:452:GLN:HE21	1:D:452:GLN:HA	1.66	0.60
1:E:118:PRO:HG2	1:J:118:PRO:HD2	1.83	0.60
1:E:244:HIS:HB2	1:E:345:ILE:CG1	2.31	0.60
1:E:279:ASN:N	1:E:279:ASN:HD22	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:323:PRO:HD2	1:E:421:LEU:CD2	2.31	0.60
1:E:74:ASP:OD1	1:E:75:ILE:CA	2.49	0.60
1:F:100:ALA:HB2	1:F:182:ARG:HD3	1.82	0.60
1:I:28:VAL:HG23	1:J:432:ALA:HB1	1.82	0.60
1:I:341:LEU:O	1:I:341:LEU:CD1	2.30	0.60
1:K:353:GLN:HG3	1:K:353:GLN:O	2.01	0.60
1:B:339:GLN:O	1:B:340:ASN:CB	2.49	0.60
1:C:305:ALA:HB2	1:C:455:THR:HA	1.83	0.60
1:C:486:LYS:O	1:C:489:VAL:HG13	2.01	0.60
1:C:26:TRP:HB3	1:D:1:MET:HE1	1.83	0.60
1:E:19:GLU:HB2	1:E:20:LEU:HA	1.84	0.60
1:H:438:ASN:C	1:H:439:PHE:CD2	2.75	0.60
1:I:99:ARG:NH1	1:I:99:ARG:HG2	2.12	0.60
1:K:286:ILE:HG22	1:K:287:THR:N	2.16	0.60
1:L:18:LEU:HD12	1:L:18:LEU:O	2.00	0.60
2:N:180:ALA:CB	2:N:245:GLU:O	2.50	0.60
1:A:85:GLY:CA	1:A:86:ILE:CB	2.67	0.60
1:D:432:ALA:HB2	1:D:489:VAL:CG1	2.31	0.60
1:G:377:TYR:O	1:G:381:VAL:HG12	2.02	0.60
1:H:395:VAL:HG23	1:H:396:THR:N	2.16	0.60
1:H:62:VAL:HA	1:H:223:ALA:HB2	1.83	0.60
1:I:110:LEU:C	1:I:110:LEU:HD22	2.18	0.60
1:J:189:VAL:HG23	1:J:199:ILE:HG22	1.82	0.60
1:K:177:LEU:HD21	1:L:387:LYS:HZ1	1.67	0.60
1:M:346:THR:CG2	1:M:347:THR:N	2.64	0.60
2:N:104:ASP:CB	2:N:107:LEU:HD11	2.31	0.60
1:C:21:ASN:H	1:C:21:ASN:ND2	1.99	0.60
1:D:244:HIS:HB2	1:D:345:ILE:HD11	1.84	0.60
1:E:327:TYR:HD1	1:E:416:ILE:HD11	1.64	0.60
1:G:1:MET:HB3	1:G:2:SER:HA	1.83	0.60
1:H:313:LYS:HZ3	1:H:313:LYS:CB	2.02	0.60
1:H:399:PHE:CD2	1:J:91:LEU:HB3	2.36	0.60
1:H:420:GLU:HB3	1:H:423:LYS:HB3	1.83	0.60
1:I:120:ASN:C	1:I:120:ASN:ND2	2.54	0.60
1:I:494:ILE:H	1:I:494:ILE:HD13	1.66	0.60
1:J:134:HIS:CD2	1:J:507:TYR:CG	2.89	0.60
1:H:389:TRP:H	1:J:145:SER:HB3	1.67	0.60
1:K:89:ASN:HB3	1:K:192:ASN:HD21	1.64	0.60
1:K:1:MET:CE	1:L:26:TRP:CG	2.84	0.60
1:L:231:ASN:ND2	1:L:231:ASN:N	2.50	0.60
1:M:503:LEU:CD2	1:M:503:LEU:C	2.69	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:20:ILE:HG21	2:N:36:PHE:CE1	2.35	0.60
1:A:82:SER:OG	1:A:83:HIS:HA	2.01	0.60
1:D:19:GLU:H	1:D:20:LEU:HA	1.67	0.60
1:D:71:VAL:HB	1:D:267:PRO:CB	2.32	0.60
1:D:61:THR:HG23	1:D:275:THR:HG21	1.74	0.60
1:F:328:LEU:HD12	1:F:417:VAL:HB	1.81	0.60
1:F:87:THR:O	1:F:88:GLU:CB	2.49	0.60
1:H:35:VAL:HG22	1:H:274:VAL:HG13	1.84	0.60
1:I:92:GLN:HB3	1:I:93:PRO:HD2	1.83	0.60
1:J:232:TRP:N	1:J:232:TRP:CD1	2.70	0.60
1:K:332:GLN:CG	1:K:456:VAL:HG23	2.27	0.60
1:M:338:TYR:CD2	1:M:338:TYR:N	2.68	0.60
1:A:108:ASN:CG	1:A:109:THR:HG22	2.15	0.60
1:C:249:ASN:ND2	1:C:250:ASP:O	2.35	0.60
1:D:82:SER:O	1:D:83:HIS:ND1	2.35	0.60
1:D:87:THR:O	1:D:88:GLU:HB2	2.02	0.60
1:H:442:GLN:O	1:H:442:GLN:HG3	2.01	0.60
1:H:59:ALA:O	1:H:60:GLN:HG2	2.01	0.60
1:I:107:THR:HG23	1:I:109:THR:O	2.01	0.60
1:I:322:ILE:HD11	1:I:433:GLU:C	2.22	0.60
1:J:99:ARG:HH21	1:J:240:ARG:HE	1.49	0.60
2:N:128:THR:C	2:N:130:TYR:N	2.55	0.60
1:A:251:VAL:HG23	1:A:253:GLY:H	1.65	0.60
1:B:313:LYS:HZ1	1:B:444:GLN:CD	2.05	0.60
1:C:379:PHE:CD1	1:C:424:ASP:OD2	2.55	0.60
1:E:451:ASN:HD21	1:E:454:VAL:HG13	1.66	0.60
1:F:322:ILE:N	1:F:322:ILE:CD1	2.41	0.60
1:H:133:TYR:HH	1:H:418:CYS:HB3	1.67	0.60
1:I:257:ILE:O	1:I:258:GLY:C	2.40	0.60
1:I:469:THR:HG22	1:I:483:VAL:HG11	1.84	0.60
1:J:387:LYS:NZ	1:J:387:LYS:HA	2.16	0.60
1:K:186:THR:HB	1:L:395:VAL:O	2.01	0.60
1:K:95:ARG:HH12	1:K:248:THR:HG23	1.65	0.60
1:M:502:GLU:O	1:M:505:ARG:CD	2.50	0.60
1:B:190:VAL:C	1:B:191:THR:CG2	2.70	0.59
1:C:77:PHE:HA	1:C:260:MET:HB2	1.84	0.59
1:C:330:VAL:HG22	1:C:460:MET:CA	2.32	0.59
1:C:87:THR:HG22	1:C:88:GLU:OE1	2.02	0.59
1:H:52:PHE:N	1:H:52:PHE:CD2	2.69	0.59
1:I:155:GLN:CD	1:I:350:VAL:HG21	2.22	0.59
1:I:235:ASN:C	1:I:235:ASN:ND2	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:59:ALA:HB3	1:K:60:GLN:HE21	1.65	0.59
1:K:83:HIS:CE1	1:K:249:ASN:HA	2.37	0.59
1:L:393:ASN:ND2	1:L:393:ASN:C	2.55	0.59
1:A:251:VAL:HG23	1:A:253:GLY:HA3	1.83	0.59
1:C:449:ASN:ND2	1:C:450:THR:N	2.50	0.59
1:C:435:VAL:CG2	1:C:486:LYS:HE3	2.32	0.59
1:F:423:LYS:CG	1:G:15:GLU:OE1	2.50	0.59
1:I:16:PRO:O	1:I:19:GLU:HG2	2.01	0.59
1:I:63:LEU:HD22	1:I:64:ASP:O	2.01	0.59
1:J:330:VAL:O	1:J:330:VAL:HG12	2.00	0.59
1:K:60:GLN:N	1:K:60:GLN:CD	2.54	0.59
1:M:237:ASN:HB2	1:M:344:GLN:OE1	2.01	0.59
2:N:271:LEU:CG	2:N:336:ASP:CG	2.58	0.59
1:A:222:LEU:H	1:A:222:LEU:HD12	1.67	0.59
1:B:410:ILE:CD1	1:B:410:ILE:O	2.49	0.59
1:B:505:ARG:NH1	1:B:505:ARG:HG2	2.08	0.59
1:D:208:PHE:HE1	1:D:214:TRP:CB	2.15	0.59
1:E:380:SER:HA	1:E:382:GLN:H	1.66	0.59
1:F:356:ASN:C	1:F:356:ASN:OD1	2.40	0.59
1:J:301:GLN:N	1:J:301:GLN:CD	2.55	0.59
1:L:32:GLY:HA2	1:L:277:ARG:HG3	1.85	0.59
1:M:4:SER:O	1:M:5:ALA:C	2.41	0.59
2:N:255:THR:HG21	2:N:258:ASN:H	1.67	0.59
1:A:239:ALA:HB3	1:A:344:GLN:HE21	1.64	0.59
1:B:26:TRP:CB	1:C:1:MET:HE1	2.26	0.59
1:C:84:ALA:HB1	1:C:85:GLY:O	2.02	0.59
1:D:117:PHE:CD1	1:D:117:PHE:C	2.75	0.59
1:D:249:ASN:CG	1:D:253:GLY:HA3	2.23	0.59
1:E:244:HIS:CB	1:E:345:ILE:HG13	2.32	0.59
1:E:251:VAL:CG1	1:E:252:SER:N	2.65	0.59
1:F:121:ILE:HD13	1:F:210:PRO:HD3	1.84	0.59
1:F:127:ILE:HG22	1:F:128:HIS:N	2.16	0.59
1:F:79:ALA:CB	1:F:195:THR:HA	2.32	0.59
1:G:301:GLN:H	1:G:301:GLN:NE2	1.99	0.59
1:H:399:PHE:N	1:H:399:PHE:CD1	2.69	0.59
1:K:87:THR:O	1:K:88:GLU:HB3	2.03	0.59
1:L:39:PRO:HB3	1:L:270:TYR:CE1	2.37	0.59
1:L:494:ILE:HA	1:M:12:ALA:O	2.02	0.59
2:N:195:CYS:HB2	2:N:199:LEU:HD22	1.85	0.59
1:B:110:LEU:HD12	1:B:111:ASN:CA	2.33	0.59
1:B:503:LEU:O	1:B:506:ILE:HG22	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:282:ILE:HD12	1:C:283:PRO:HD2	1.83	0.59
1:F:171:PHE:HB2	1:F:184:SER:HB2	1.84	0.59
1:G:71:VAL:HG12	1:G:267:PRO:HB2	1.85	0.59
1:H:291:PHE:HD1	1:H:467:ASP:CG	2.06	0.59
1:I:314:SER:O	1:I:315:ASN:CB	2.41	0.59
1:E:118:PRO:HD3	1:J:117:PHE:CE2	2.36	0.59
1:K:65:ARG:HH11	1:K:213:LEU:CD2	2.16	0.59
1:M:295:ARG:CG	1:M:295:ARG:NH1	2.49	0.59
2:N:53:LEU:HD21	2:N:363:LEU:HD11	1.82	0.59
1:A:385:TYR:CE2	1:A:387:LYS:HB2	2.37	0.59
1:B:385:TYR:HD2	1:B:387:LYS:H	1.48	0.59
1:D:351:PHE:CE2	1:D:416:ILE:CG2	2.86	0.59
1:E:173:SER:CA	1:F:164:ASN:OD1	2.41	0.59
1:G:318:GLN:O	1:G:318:GLN:HG3	2.00	0.59
1:H:430:ASP:OD2	1:H:489:VAL:HG12	1.98	0.59
1:I:324:ARG:HG2	1:I:324:ARG:NH1	2.06	0.59
1:I:33:GLN:O	1:I:34:GLN:HB2	2.02	0.59
1:K:133:TYR:CZ	1:K:418:CYS:HB3	2.36	0.59
1:L:228:LEU:HD22	1:L:229:THR:N	2.18	0.59
1:L:359:LEU:CD2	1:L:367:ILE:HG22	2.32	0.59
2:N:88:SER:HB2	2:N:194:TYR:HB2	1.83	0.59
1:C:19:GLU:H	1:C:20:LEU:HA	1.67	0.59
1:F:503:LEU:C	1:F:506:ILE:HG23	2.22	0.59
1:F:85:GLY:HA2	1:F:86:ILE:HG22	1.84	0.59
1:G:49:GLN:HG3	1:G:233:VAL:HA	1.85	0.59
1:H:127:ILE:HD11	1:H:208:PHE:CD1	2.37	0.59
1:H:1:MET:H1	1:J:484:ALA:HA	1.67	0.59
1:H:291:PHE:N	1:H:291:PHE:CD2	2.70	0.59
1:L:155:GLN:HE21	1:L:155:GLN:CA	2.08	0.59
1:L:1:MET:H1	1:L:10:VAL:HG12	1.67	0.59
1:L:228:LEU:CD1	1:L:230:PHE:CE2	2.82	0.59
1:E:438:ASN:HD21	1:L:318:GLN:CB	2.15	0.59
1:D:188:ASN:OD1	1:D:188:ASN:N	2.30	0.59
1:D:190:VAL:CG2	1:D:198:ARG:HB3	2.33	0.59
1:G:121:ILE:HD13	1:G:209:LEU:HB2	1.84	0.59
1:G:493:ARG:NH1	1:G:493:ARG:HB2	2.18	0.59
1:H:397:GLN:HG2	1:H:398:GLN:N	2.17	0.59
1:I:330:VAL:O	1:I:330:VAL:HG12	2.03	0.59
1:J:261:ASN:N	1:J:261:ASN:HD22	1.98	0.59
1:K:26:TRP:HB3	1:M:1:MET:HE1	1.83	0.59
2:N:107:LEU:CD1	2:N:107:LEU:H	2.11	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:173:LYS:HG3	2:N:254:PRO:CG	2.21	0.59
2:N:370:LEU:HD12	2:N:371:SER:HA	1.81	0.59
1:B:314:SER:O	1:B:315:ASN:CB	2.43	0.59
1:D:295:ARG:HG2	1:D:295:ARG:O	2.02	0.59
1:D:73:TYR:CE1	1:D:203:LEU:CD2	2.84	0.59
1:E:153:ASN:ND2	1:E:153:ASN:H	2.00	0.59
1:A:44:SER:HB2	1:E:265:GLN:HG3	1.83	0.59
1:F:250:ASP:CB	1:F:251:VAL:CA	2.74	0.59
1:I:507:TYR:CD1	1:I:508:GLY:N	2.71	0.59
1:J:134:HIS:CD2	1:J:507:TYR:CD1	2.91	0.59
1:C:244:HIS:HB3	1:C:345:ILE:CD1	2.21	0.59
1:E:254:ASN:HD22	1:E:254:ASN:N	2.00	0.59
1:F:242:TRP:HD1	1:F:345:ILE:HD11	1.68	0.59
1:J:218:GLN:NE2	1:J:218:GLN:HA	2.16	0.59
1:K:222:LEU:CD2	1:K:222:LEU:N	2.65	0.59
1:M:318:GLN:HG3	1:M:440:ASN:HB3	1.84	0.59
1:A:63:LEU:HD22	1:A:64:ASP:O	2.03	0.58
1:B:150:PHE:HE1	1:B:179:GLU:CD	2.04	0.58
1:B:332:GLN:HE21	1:B:333:SER:HB3	1.56	0.58
1:C:313:LYS:HZ3	1:C:314:SER:N	1.99	0.58
1:E:428:ARG:HH11	1:E:428:ARG:CG	2.15	0.58
1:I:379:PHE:HD1	1:I:380:SER:N	2.01	0.58
1:K:42:SER:OG	1:K:45:PHE:HB3	2.03	0.58
1:B:73:TYR:CD2	1:B:73:TYR:C	2.74	0.58
1:C:473:SER:O	1:C:476:SER:N	2.36	0.58
1:D:106:ILE:HD13	1:D:241:ILE:HG12	1.85	0.58
1:D:358:ASN:C	1:D:358:ASN:OD1	2.41	0.58
1:F:295:ARG:C	1:F:296:TYR:HD2	2.05	0.58
1:F:421:LEU:CD1	1:F:425:VAL:HG21	2.33	0.58
1:F:481:ILE:HD13	1:F:481:ILE:N	2.17	0.58
1:F:507:TYR:CG	1:F:508:GLY:HA3	2.33	0.58
1:J:357:LEU:HD11	1:J:359:LEU:HD23	1.84	0.58
1:B:167:PRO:CD	1:B:168:LEU:H	2.16	0.58
1:D:355:ASN:O	1:D:373:SER:HB3	2.04	0.58
1:D:501:ASN:O	1:D:504:GLN:HB2	2.03	0.58
1:E:340:ASN:O	1:E:344:GLN:CD	2.40	0.58
1:G:194:THR:O	1:G:195:THR:CB	2.51	0.58
1:J:207:VAL:HG23	1:J:232:TRP:CZ2	2.38	0.58
1:M:159:ASP:C	1:M:159:ASP:OD1	2.42	0.58
1:A:320:ASP:OD1	1:A:320:ASP:N	2.30	0.58
1:A:41:PRO:HB2	1:A:266:GLN:HE22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:73:TYR:CD1	1:C:203:LEU:HD23	2.39	0.58
1:F:121:ILE:HD13	1:F:210:PRO:CD	2.33	0.58
1:F:72:PRO:HD2	1:F:265:GLN:O	2.03	0.58
1:F:126:ILE:HD11	1:F:295:ARG:HB3	1.85	0.58
1:G:172:THR:O	1:G:173:SER:HB2	2.03	0.58
1:J:222:LEU:HD23	1:J:222:LEU:H	1.69	0.58
1:J:401:GLY:O	1:J:402:VAL:HB	2.02	0.58
1:L:429:ASP:OD2	1:L:430:ASP:HA	2.01	0.58
2:N:251:GLN:HG2	2:N:254:PRO:HD3	1.85	0.58
2:N:44:ILE:CA	2:N:332:ILE:HD11	2.33	0.58
1:E:99:ARG:HH22	1:E:240:ARG:NH2	2.00	0.58
1:E:365:GLN:HB3	1:L:122:GLU:CG	2.33	0.58
1:F:295:ARG:NH1	1:F:295:ARG:CG	2.59	0.58
1:H:336:VAL:CG2	1:H:337:ILE:N	2.66	0.58
1:J:21:ASN:C	1:J:21:ASN:ND2	2.55	0.58
1:J:367:ILE:N	1:J:367:ILE:CD1	2.59	0.58
1:M:324:ARG:HD3	1:M:433:GLU:OE1	2.04	0.58
2:N:185:ARG:HE	2:N:226:ARG:NH2	2.01	0.58
1:B:154:TYR:OH	1:B:165:ASN:ND2	2.36	0.58
1:B:332:GLN:NE2	1:B:456:VAL:CG2	2.59	0.58
1:C:133:TYR:CZ	1:C:418:CYS:HB3	2.37	0.58
1:C:449:ASN:HD22	1:C:450:THR:N	2.02	0.58
1:B:3:ASN:OD1	1:C:483:VAL:O	2.22	0.58
1:D:255:SER:HB2	1:D:257:ILE:CD1	2.25	0.58
1:E:397:GLN:HG3	1:G:187:MET:O	2.04	0.58
1:F:417:VAL:HG12	1:F:418:CYS:H	1.68	0.58
1:G:413:GLU:HG3	1:G:414:GLY:O	2.04	0.58
1:H:140:LYS:HG2	1:H:179:GLU:CG	2.33	0.58
1:I:326:LEU:HD11	1:I:421:LEU:HD21	1.84	0.58
1:I:155:GLN:CD	1:I:350:VAL:CG2	2.72	0.58
1:L:305:ALA:CB	1:L:455:THR:HA	2.33	0.58
1:M:214:TRP:N	1:M:214:TRP:CD2	2.72	0.58
1:C:83:HIS:CE1	1:C:85:GLY:HA3	2.38	0.58
1:D:416:ILE:O	1:D:416:ILE:HG13	2.02	0.58
1:E:470:LEU:HD13	1:E:479:ALA:HB2	1.84	0.58
1:F:419:LEU:HD12	1:F:425:VAL:HG22	1.86	0.58
1:I:430:ASP:O	1:I:431:GLU:OE2	2.21	0.58
1:J:19:GLU:O	1:J:19:GLU:CG	2.48	0.58
1:M:136:PRO:O	1:M:138:LYS:N	2.37	0.58
1:B:96:ASP:OD1	1:B:244:HIS:HA	2.03	0.58
1:B:333:SER:O	1:B:336:VAL:HG22	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:26:TRP:HB3	1:C:1:MET:SD	2.43	0.58
1:D:412:LEU:HD12	1:D:412:LEU:H	1.67	0.58
1:E:364:GLN:CB	1:E:367:ILE:HD11	2.34	0.58
1:H:379:PHE:HD2	1:H:379:PHE:C	2.07	0.58
1:J:250:ASP:CG	1:J:251:VAL:N	2.55	0.58
1:J:87:THR:CG2	1:J:88:GLU:CA	2.82	0.58
1:L:99:ARG:CD	1:L:243:SER:HB3	2.28	0.58
2:N:180:ALA:HB1	2:N:245:GLU:O	2.03	0.58
2:N:255:THR:O	2:N:257:SER:CB	2.48	0.58
1:B:357:LEU:CD1	1:B:358:ASN:C	2.73	0.58
1:B:396:THR:O	1:B:410:ILE:CG1	2.52	0.58
1:F:382:GLN:CD	1:F:423:LYS:HZ3	2.07	0.58
1:H:292:LYS:C	1:H:293:LEU:HD23	2.20	0.58
1:I:314:SER:CB	1:I:443:VAL:O	2.51	0.58
1:J:57:PRO:CA	1:L:363:ASN:OD1	2.52	0.58
1:K:496:HIS:O	1:K:496:HIS:HD2	1.86	0.58
1:L:279:ASN:C	1:L:279:ASN:OD1	2.41	0.58
1:L:436:ILE:CG2	1:L:437:GLY:HA3	2.33	0.58
1:M:121:ILE:CD1	1:M:209:LEU:HB2	2.33	0.58
1:B:208:PHE:HE1	1:B:214:TRP:CB	2.16	0.58
1:B:209:LEU:HD21	1:B:210:PRO:O	2.03	0.58
1:D:380:SER:HB2	1:D:383:ASN:H	1.69	0.58
1:H:215:ASP:OD1	1:H:216:GLY:N	2.37	0.58
1:H:449:ASN:ND2	1:H:450:THR:N	2.49	0.58
1:A:132:ARG:HG2	1:A:132:ARG:NH1	2.14	0.57
1:B:410:ILE:N	1:B:410:ILE:CD1	2.48	0.57
1:B:155:GLN:HB2	1:B:411:GLY:HA3	1.86	0.57
1:D:305:ALA:HB2	1:D:455:THR:HG23	1.86	0.57
1:D:503:LEU:O	1:D:506:ILE:HG12	2.03	0.57
1:E:386:ASN:O	1:E:386:ASN:ND2	2.31	0.57
1:J:2:SER:O	1:J:3:ASN:CB	2.48	0.57
1:K:423:LYS:HB2	1:L:15:GLU:OE1	2.04	0.57
1:M:109:THR:HG23	1:M:233:VAL:HG13	1.84	0.57
2:N:287:VAL:HA	2:N:288:GLY:C	2.24	0.57
2:N:36:PHE:CE2	2:N:335:VAL:HG12	2.38	0.57
1:B:356:ASN:OD1	1:B:357:LEU:N	2.36	0.57
1:B:309:SER:HA	1:B:448:THR:OG1	2.04	0.57
1:H:481:ILE:HD13	1:H:481:ILE:N	2.16	0.57
1:I:194:THR:O	1:I:195:THR:CB	2.52	0.57
2:N:279:ILE:HG22	2:N:295:ILE:HD12	1.85	0.57
1:C:39:PRO:HB3	1:C:270:TYR:CE1	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:326:LEU:C	1:C:327:TYR:CD1	2.77	0.57
1:D:249:ASN:OD1	1:D:253:GLY:CA	2.52	0.57
1:E:254:ASN:HD22	1:E:254:ASN:H	1.47	0.57
1:E:340:ASN:O	1:E:344:GLN:OE1	2.22	0.57
1:E:70:GLN:HG2	1:E:70:GLN:O	2.03	0.57
1:G:60:GLN:CG	1:G:60:GLN:O	2.52	0.57
1:H:224:ASN:H	1:H:224:ASN:ND2	1.98	0.57
1:H:330:VAL:HG22	1:H:460:MET:HB3	1.85	0.57
1:J:187:MET:HG2	1:J:199:ILE:HD13	1.85	0.57
1:J:217:GLU:O	1:J:218:GLN:HB2	2.03	0.57
1:K:172:THR:O	1:K:173:SER:HB2	2.04	0.57
1:K:471:VAL:HG21	1:L:5:ALA:HB3	1.80	0.57
1:M:85:GLY:HA2	1:M:86:ILE:HG22	1.85	0.57
1:B:190:VAL:HG22	1:B:198:ARG:C	2.23	0.57
1:B:155:GLN:HG2	1:B:412:LEU:C	2.25	0.57
1:E:83:HIS:ND1	1:E:83:HIS:C	2.57	0.57
1:H:313:LYS:HD2	1:H:444:GLN:HG3	1.87	0.57
1:I:191:THR:CG2	1:I:197:ALA:HA	2.34	0.57
1:I:318:GLN:NE2	1:I:440:ASN:OD1	2.36	0.57
1:J:143:TRP:CZ3	1:J:216:GLY:HA2	2.40	0.57
1:J:339:GLN:O	1:J:339:GLN:HG3	2.04	0.57
1:M:332:GLN:HG2	1:M:456:VAL:HG23	1.87	0.57
2:N:171:THR:H	2:N:172:GLU:HA	1.67	0.57
1:A:449:ASN:C	1:A:449:ASN:HD22	2.06	0.57
1:C:150:PHE:HE2	1:C:167:PRO:HA	1.69	0.57
1:D:332:GLN:HG2	1:D:456:VAL:HG13	1.84	0.57
1:D:80:ASN:HB2	1:D:258:GLY:HA2	1.85	0.57
1:E:56:PRO:O	1:E:56:PRO:CD	2.52	0.57
1:I:1:MET:SD	1:I:10:VAL:HA	2.43	0.57
1:I:437:GLY:CA	1:I:439:PHE:CE2	2.82	0.57
1:K:125:GLN:CD	1:K:295:ARG:NH1	2.58	0.57
1:A:121:ILE:CG2	1:A:123:LEU:HD12	2.34	0.57
1:B:171:PHE:HB2	1:B:184:SER:HB2	1.87	0.57
1:B:17:ARG:CD	1:D:218:GLN:NE2	2.66	0.57
1:B:330:VAL:HG12	1:B:352:LEU:HD22	1.87	0.57
1:B:2:SER:HB3	1:B:3:ASN:HD21	1.69	0.57
1:C:412:LEU:CD1	1:C:413:GLU:HB3	2.32	0.57
1:F:85:GLY:HA2	1:F:86:ILE:CB	2.35	0.57
1:H:350:VAL:HG13	1:H:413:GLU:CB	2.26	0.57
1:L:252:SER:H	1:L:254:ASN:ND2	2.03	0.57
1:L:125:GLN:HB2	1:L:295:ARG:NH1	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:449:ASN:HD22	1:L:450:THR:H	1.53	0.57
1:M:231:ASN:N	1:M:231:ASN:HD22	2.02	0.57
2:N:256:LEU:HD21	2:N:307:PRO:HG2	1.74	0.57
1:A:254:ASN:HD22	1:A:255:SER:CA	2.14	0.57
1:A:323:PRO:HG2	1:A:421:LEU:HD22	1.87	0.57
1:B:483:VAL:O	1:D:3:ASN:ND2	2.38	0.57
1:C:470:LEU:C	1:C:470:LEU:HD12	2.25	0.57
1:C:481:ILE:C	1:M:363:ASN:ND2	2.57	0.57
1:F:132:ARG:CZ	1:F:413:GLU:OE2	2.53	0.57
1:G:79:ALA:CB	1:G:195:THR:HA	2.27	0.57
1:H:99:ARG:NH1	1:H:240:ARG:CZ	2.63	0.57
1:I:360:THR:CG2	1:I:361:TRP:O	2.52	0.57
1:I:490:LEU:HD23	1:I:491:ASN:CA	2.35	0.57
1:I:493:ARG:O	1:I:493:ARG:CD	2.52	0.57
1:J:136:PRO:O	1:J:137:LEU:C	2.41	0.57
1:A:282:ILE:HD12	1:A:283:PRO:HD2	1.86	0.57
1:C:361:TRP:CZ3	1:C:441:LEU:HD23	2.31	0.57
1:D:247:ILE:O	1:D:249:ASN:N	2.38	0.57
1:E:491:ASN:ND2	1:E:491:ASN:O	2.38	0.57
1:H:73:TYR:CD2	1:H:73:TYR:C	2.78	0.57
1:I:89:ASN:HB2	1:I:192:ASN:O	2.04	0.57
1:I:85:GLY:CA	1:I:86:ILE:HG23	2.25	0.57
1:J:61:THR:HG22	1:J:274:VAL:O	2.05	0.57
1:K:100:ALA:HB2	1:K:182:ARG:HD2	1.85	0.57
1:L:192:ASN:ND2	1:L:192:ASN:C	2.53	0.57
1:M:208:PHE:CB	1:M:214:TRP:NE1	2.64	0.57
1:A:251:VAL:HG23	1:A:253:GLY:N	2.20	0.57
1:A:341:LEU:HA	1:A:344:GLN:HG3	1.85	0.57
1:A:438:ASN:N	1:A:438:ASN:OD1	2.38	0.57
1:B:194:THR:O	1:B:195:THR:CB	2.52	0.57
1:C:255:SER:CB	1:C:342:ASN:ND2	2.67	0.57
1:C:364:GLN:CG	1:C:367:ILE:HD11	2.32	0.57
1:C:51:ASN:HB2	1:C:231:ASN:HB2	1.86	0.57
1:D:299:GLN:CD	1:D:335:ASN:ND2	2.59	0.57
1:G:340:ASN:ND2	1:G:340:ASN:O	2.37	0.57
1:I:483:VAL:O	1:J:3:ASN:OD1	2.23	0.57
1:D:71:VAL:CA	1:D:267:PRO:HB3	2.35	0.57
1:B:187:MET:N	1:D:397:GLN:OE1	2.38	0.57
1:E:148:PRO:HG3	1:E:185:TYR:HD1	1.69	0.57
1:F:286:ILE:CG2	1:F:287:THR:N	2.68	0.57
1:I:190:VAL:HG23	1:I:198:ARG:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:372:SER:O	1:K:375:ASN:N	2.38	0.57
1:L:336:VAL:O	1:L:339:GLN:NE2	2.36	0.57
1:B:49:GLN:HB2	1:B:232:TRP:O	2.05	0.56
1:C:100:ALA:HB2	1:C:182:ARG:HD3	1.87	0.56
1:D:65:ARG:HH12	1:D:213:LEU:HD23	1.70	0.56
1:H:507:TYR:CG	1:H:508:GLY:N	2.72	0.56
1:I:490:LEU:HD23	1:I:491:ASN:CB	2.34	0.56
1:I:55:ASN:CB	1:I:56:PRO:CD	2.73	0.56
1:J:100:ALA:HB2	1:J:182:ARG:CD	2.27	0.56
1:M:136:PRO:O	1:M:139:VAL:N	2.35	0.56
2:N:24:PHE:CE2	2:N:355:PRO:CA	2.83	0.56
1:A:285:ARG:HB2	1:A:473:SER:CB	2.34	0.56
1:C:83:HIS:CD2	1:C:256:THR:HA	2.30	0.56
1:G:133:TYR:CZ	1:G:418:CYS:HB3	2.40	0.56
1:H:340:ASN:C	1:H:344:GLN:NE2	2.48	0.56
1:B:96:ASP:OD1	1:B:244:HIS:HD2	1.87	0.56
1:B:282:ILE:HD12	1:B:283:PRO:HD2	1.86	0.56
1:B:333:SER:O	1:B:337:ILE:CG2	2.48	0.56
1:C:501:ASN:O	1:C:504:GLN:HB2	2.05	0.56
1:D:397:GLN:CD	1:D:397:GLN:H	2.08	0.56
1:D:351:PHE:CD2	1:D:416:ILE:HG22	2.40	0.56
1:D:75:ILE:CD1	1:D:262:ILE:HG23	2.34	0.56
1:E:342:ASN:HD22	1:E:346:THR:CG2	2.17	0.56
1:E:96:ASP:OD1	1:E:244:HIS:CA	2.38	0.56
1:F:143:TRP:CZ3	1:F:215:ASP:O	2.58	0.56
1:J:207:VAL:O	1:J:207:VAL:HG12	2.05	0.56
1:K:469:THR:CG2	1:L:4:SER:HB2	2.33	0.56
1:M:133:TYR:CE1	1:M:418:CYS:HB3	2.40	0.56
1:M:137:LEU:O	1:M:137:LEU:HD23	2.05	0.56
2:N:184:ASP:CG	2:N:226:ARG:HA	2.25	0.56
2:N:197:VAL:CG1	2:N:220:ASP:OD2	2.51	0.56
2:N:184:ASP:OD2	2:N:226:ARG:HA	2.05	0.56
2:N:91:TYR:C	2:N:93:GLY:HA2	2.26	0.56
1:A:336:VAL:O	1:A:337:ILE:HD13	2.05	0.56
1:C:59:ALA:C	1:C:60:GLN:OE1	2.44	0.56
1:E:17:ARG:HH12	1:G:423:LYS:HZ3	1.51	0.56
1:G:109:THR:HG22	1:G:110:LEU:H	1.71	0.56
1:H:120:ASN:C	1:H:120:ASN:ND2	2.59	0.56
1:H:428:ARG:NE	1:H:429:ASP:N	2.53	0.56
1:J:341:LEU:HD13	1:J:342:ASN:HA	1.87	0.56
1:J:486:LYS:HZ2	1:J:486:LYS:HA	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:286:ILE:HG23	1:K:287:THR:H	1.71	0.56
1:K:379:PHE:CD1	1:K:379:PHE:C	2.79	0.56
1:L:45:PHE:C	1:L:45:PHE:CD1	2.77	0.56
2:N:18:TYR:CD1	2:N:19:ASP:N	2.73	0.56
1:A:291:PHE:CD1	1:A:291:PHE:N	2.74	0.56
1:A:325:LYS:HB2	1:A:325:LYS:HZ3	1.69	0.56
1:C:117:PHE:HB2	1:C:477:ALA:HB3	1.87	0.56
1:C:413:GLU:CG	1:C:414:GLY:N	2.30	0.56
1:D:295:ARG:O	2:N:39:GLN:HG3	2.05	0.56
1:D:404:GLY:O	1:D:405:GLN:NE2	2.39	0.56
1:D:354:ILE:HA	1:D:447:VAL:HG23	1.87	0.56
1:D:92:GLN:HB3	1:D:93:PRO:CD	2.35	0.56
1:G:247:ILE:CG2	1:G:248:THR:N	2.67	0.56
1:H:345:ILE:HG13	1:H:346:THR:N	2.20	0.56
1:K:143:TRP:C	1:K:145:SER:H	2.09	0.56
1:L:465:VAL:HG23	1:L:465:VAL:O	2.05	0.56
1:M:89:ASN:HB3	1:M:192:ASN:ND2	2.20	0.56
2:N:333:TYR:O	2:N:334:MET:SD	2.60	0.56
1:A:290:TYR:OH	1:A:292:LYS:NZ	2.37	0.56
1:A:89:ASN:HB3	1:A:192:ASN:ND2	2.15	0.56
1:B:357:LEU:HD13	1:B:358:ASN:N	2.16	0.56
1:B:35:VAL:HG21	1:C:17:ARG:HH21	1.70	0.56
1:C:140:LYS:NZ	1:C:149:SER:O	2.36	0.56
1:D:59:ALA:HB1	1:D:60:GLN:HE21	1.71	0.56
1:F:475:THR:O	1:F:476:SER:HB3	2.05	0.56
1:G:171:PHE:C	1:G:171:PHE:CD1	2.78	0.56
1:H:423:LYS:HA	1:I:15:GLU:CD	2.26	0.56
1:J:132:ARG:NH2	1:J:132:ARG:CG	2.67	0.56
1:L:15:GLU:CG	1:L:16:PRO:HD2	2.31	0.56
1:L:1:MET:SD	1:M:26:TRP:CE2	2.98	0.56
1:A:481:ILE:HG23	1:F:365:GLN:HB2	1.78	0.56
1:C:123:LEU:HD23	1:C:127:ILE:HG12	1.83	0.56
1:F:250:ASP:CG	1:F:251:VAL:N	2.53	0.56
1:F:264:PHE:CA	1:F:265:GLN:NE2	2.69	0.56
1:G:461:TYR:O	1:G:462:ILE:HG13	2.05	0.56
1:H:401:GLY:O	1:H:402:VAL:CB	2.54	0.56
1:H:428:ARG:HD2	1:H:429:ASP:O	2.05	0.56
1:J:172:THR:O	1:J:173:SER:CB	2.53	0.56
1:J:392:PHE:CD1	1:J:392:PHE:C	2.78	0.56
1:J:507:TYR:CD2	1:J:508:GLY:N	2.74	0.56
1:L:170:VAL:HG12	1:L:171:PHE:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:ASN:CB	1:A:192:ASN:HD21	2.14	0.56
1:B:360:THR:HG23	1:B:442:GLN:O	2.05	0.56
1:D:133:TYR:HA	1:D:135:THR:H	1.71	0.56
1:E:145:SER:HB3	1:F:389:TRP:H	1.71	0.56
1:E:493:ARG:HG2	1:E:493:ARG:NH1	2.14	0.56
1:F:443:VAL:HG13	1:F:462:ILE:HD11	1.78	0.56
1:G:305:ALA:HB1	1:G:306:PRO:HA	1.86	0.56
1:G:84:ALA:HA	1:G:86:ILE:HB	1.87	0.56
1:H:326:LEU:HD21	1:H:328:LEU:HD21	1.87	0.56
1:I:86:ILE:HG21	1:I:256:THR:HG21	1.88	0.56
1:J:224:ASN:ND2	1:J:224:ASN:H	2.03	0.56
1:K:351:PHE:CE1	1:K:413:GLU:OE2	2.58	0.56
1:K:411:GLY:C	1:K:412:LEU:HD23	2.26	0.56
1:L:133:TYR:CZ	1:L:418:CYS:HB3	2.40	0.56
1:L:430:ASP:OD2	1:L:489:VAL:CB	2.54	0.56
2:N:44:ILE:HB	2:N:332:ILE:CD1	2.31	0.56
1:A:324:ARG:HD2	1:A:467:ASP:OD1	2.06	0.56
1:B:133:TYR:O	1:B:384:GLY:O	2.24	0.56
1:B:217:GLU:O	1:B:218:GLN:CB	2.54	0.56
1:B:89:ASN:ND2	1:B:89:ASN:N	2.53	0.56
1:C:89:ASN:HD21	1:C:193:THR:HA	1.71	0.56
1:C:488:GLU:OE2	1:C:489:VAL:HA	2.05	0.56
1:C:84:ALA:CA	1:C:85:GLY:C	2.74	0.56
1:D:59:ALA:HB1	1:D:60:GLN:NE2	2.21	0.56
1:E:505:ARG:NH1	1:E:505:ARG:HG2	2.20	0.56
1:H:217:GLU:OE2	1:H:505:ARG:CG	2.54	0.56
1:I:189:VAL:HG13	1:I:191:THR:O	2.05	0.56
1:I:471:VAL:HG21	1:J:5:ALA:CB	2.19	0.56
1:I:481:ILE:N	1:I:481:ILE:HD13	2.20	0.56
1:J:327:TYR:CD2	1:J:327:TYR:N	2.74	0.56
1:L:235:ASN:HD22	1:L:235:ASN:N	2.02	0.56
1:L:82:SER:O	1:L:84:ALA:HB2	2.06	0.56
1:M:2:SER:HB3	1:M:7:PRO:HB3	1.88	0.56
1:M:502:GLU:OE1	1:M:502:GLU:C	2.44	0.56
2:N:185:ARG:H	2:N:225:VAL:HG13	1.71	0.56
1:B:393:ASN:O	1:B:393:ASN:CG	2.44	0.56
1:B:411:GLY:O	1:B:412:LEU:CD1	2.30	0.56
1:C:313:LYS:C	1:C:313:LYS:HZ3	2.03	0.56
1:E:379:PHE:O	1:E:379:PHE:CG	2.58	0.56
1:F:35:VAL:O	1:F:36:THR:CG2	2.54	0.56
1:G:372:SER:O	1:G:376:LEU:HD13	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:493:ARG:NH1	1:I:493:ARG:CG	2.34	0.56
1:J:249:ASN:OD1	1:J:255:SER:HA	2.04	0.56
1:M:150:PHE:HE1	1:M:179:GLU:OE1	1.89	0.56
1:M:295:ARG:HG3	1:M:295:ARG:HH11	1.66	0.56
1:M:428:ARG:O	1:M:431:GLU:OE1	2.24	0.56
2:N:357:ARG:HB2	2:N:357:ARG:CZ	2.35	0.56
1:B:357:LEU:HB2	1:B:445:MET:HB2	1.88	0.56
1:D:339:GLN:HB3	2:N:27:ASN:HA	1.88	0.56
1:E:339:GLN:C	1:E:340:ASN:HD22	1.96	0.56
1:F:35:VAL:HG12	1:F:36:THR:N	2.21	0.56
1:F:494:ILE:H	1:F:494:ILE:CD1	2.17	0.56
1:H:1:MET:SD	1:H:10:VAL:CB	2.93	0.56
1:J:286:ILE:CG2	1:J:288:TYR:CE2	2.89	0.56
1:J:385:TYR:CE2	1:J:387:LYS:HB3	2.41	0.56
1:K:286:ILE:CG2	1:K:287:THR:H	2.19	0.56
1:K:165:ASN:HB3	1:M:174:ALA:O	2.05	0.56
2:N:18:TYR:CD1	2:N:18:TYR:C	2.79	0.56
1:B:110:LEU:HD12	1:B:110:LEU:O	2.03	0.55
1:C:75:ILE:CG2	1:C:76:THR:N	2.69	0.55
1:E:6:ILE:HG22	1:E:7:PRO:O	2.06	0.55
1:F:435:VAL:HG22	1:F:436:ILE:N	2.19	0.55
1:G:115:ASN:ND2	1:G:225:LEU:HA	2.21	0.55
1:G:252:SER:N	1:G:253:GLY:CA	2.69	0.55
1:H:110:LEU:HD13	1:H:111:ASN:N	2.20	0.55
1:H:355:ASN:O	1:H:373:SER:HB3	2.06	0.55
1:H:428:ARG:CA	1:H:431:GLU:OE1	2.54	0.55
1:I:470:LEU:O	1:I:470:LEU:HG	2.06	0.55
1:J:413:GLU:HG2	1:J:414:GLY:N	2.17	0.55
1:K:209:LEU:HD12	1:K:210:PRO:CD	2.36	0.55
1:M:366:GLY:O	1:M:367:ILE:C	2.44	0.55
2:N:34:ALA:CB	2:N:351:ILE:HG23	2.36	0.55
1:A:372:SER:O	1:A:375:ASN:N	2.39	0.55
1:E:449:ASN:HD22	1:E:449:ASN:C	2.09	0.55
1:F:143:TRP:C	1:F:145:SER:N	2.60	0.55
1:E:423:LYS:CE	1:F:17:ARG:HD2	2.28	0.55
1:F:295:ARG:HG2	1:F:295:ARG:NH1	2.20	0.55
1:G:143:TRP:O	1:G:145:SER:N	2.39	0.55
1:G:9:ASN:HD22	1:G:9:ASN:C	2.02	0.55
1:I:101:PHE:O	1:I:105:SER:HB3	2.06	0.55
1:E:44:SER:HB3	1:J:317:VAL:CG2	2.36	0.55
1:J:60:GLN:O	1:J:276:PRO:CD	2.50	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:362:ASN:N	1:L:362:ASN:HD22	2.03	0.55
1:M:436:ILE:O	1:M:436:ILE:CG2	2.53	0.55
1:A:249:ASN:HB2	1:A:255:SER:CB	2.37	0.55
1:C:393:ASN:ND2	1:C:393:ASN:C	2.59	0.55
1:C:410:ILE:HD12	1:C:410:ILE:N	2.21	0.55
1:D:208:PHE:CE1	1:D:214:TRP:CB	2.88	0.55
1:F:19:GLU:CB	1:F:20:LEU:HA	2.36	0.55
1:H:186:THR:HB	1:I:395:VAL:O	2.07	0.55
1:I:361:TRP:CE3	1:I:361:TRP:HA	2.41	0.55
1:J:286:ILE:HG23	1:J:287:THR:N	2.21	0.55
1:M:14:GLN:HA	1:M:14:GLN:OE1	2.06	0.55
1:B:334:ASP:CG	1:B:461:TYR:HH	2.10	0.55
1:C:73:TYR:HE2	1:C:199:ILE:HD12	1.70	0.55
1:D:42:SER:HB3	1:D:52:PHE:CE1	2.40	0.55
1:E:104:SER:OG	1:E:127:ILE:HD13	2.06	0.55
1:E:82:SER:O	1:E:83:HIS:C	2.44	0.55
1:F:364:GLN:CG	1:F:367:ILE:CD1	2.75	0.55
1:F:417:VAL:HG12	1:F:418:CYS:N	2.21	0.55
1:G:313:LYS:H	1:G:444:GLN:HG2	1.70	0.55
1:G:505:ARG:NH1	1:G:505:ARG:HB2	2.20	0.55
1:G:70:GLN:O	1:G:70:GLN:HG3	2.06	0.55
1:H:305:ALA:HB3	1:H:455:THR:HG23	1.87	0.55
1:I:231:ASN:N	1:I:231:ASN:HD22	2.05	0.55
1:I:431:GLU:OE2	1:I:431:GLU:CA	2.54	0.55
1:L:323:PRO:HD2	1:L:421:LEU:CD2	2.36	0.55
2:N:55:VAL:CG1	2:N:296:LEU:HD11	2.37	0.55
1:A:291:PHE:HD1	1:A:291:PHE:N	2.04	0.55
1:A:325:LYS:NZ	1:A:327:TYR:CE2	2.60	0.55
1:B:171:PHE:CD1	1:B:171:PHE:O	2.59	0.55
1:B:345:ILE:HG23	1:B:346:THR:HG22	1.87	0.55
1:C:99:ARG:HD2	1:C:243:SER:HB3	1.89	0.55
1:E:182:ARG:HG3	1:E:182:ARG:NH1	2.05	0.55
1:E:147:GLN:HG2	1:E:205:GLU:HG2	1.89	0.55
1:E:342:ASN:ND2	1:E:346:THR:HG21	2.21	0.55
1:G:372:SER:O	1:G:376:LEU:CD1	2.54	0.55
1:H:353:GLN:O	1:H:353:GLN:HG3	2.06	0.55
1:I:360:THR:HG22	1:I:361:TRP:O	2.07	0.55
1:J:62:VAL:HA	1:J:223:ALA:HB2	1.88	0.55
1:K:301:GLN:CD	1:K:301:GLN:H	2.10	0.55
1:M:214:TRP:N	1:M:214:TRP:CE3	2.59	0.55
1:M:334:ASP:HA	1:M:337:ILE:CG1	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:141:GLN:HG2	2:N:141:GLN:O	2.06	0.55
1:A:105:SER:HB3	1:A:128:HIS:CE1	2.42	0.55
1:A:325:LYS:HB3	1:A:420:GLU:HA	1.89	0.55
1:C:19:GLU:N	1:C:20:LEU:HA	2.22	0.55
1:D:461:TYR:O	1:D:462:ILE:HG13	2.07	0.55
1:E:261:ASN:N	1:E:261:ASN:HD22	2.03	0.55
1:E:80:ASN:HB3	1:E:258:GLY:O	2.06	0.55
1:F:35:VAL:O	1:F:36:THR:HG22	2.06	0.55
1:E:218:GLN:HG3	1:F:382:GLN:HE22	1.70	0.55
1:G:87:THR:C	1:G:88:GLU:CG	2.71	0.55
1:H:439:PHE:N	1:H:439:PHE:CD2	2.74	0.55
1:K:104:SER:HB3	1:K:205:GLU:OE1	2.07	0.55
1:K:247:ILE:HD12	1:K:248:THR:HG23	1.88	0.55
1:L:66:LEU:HD23	1:L:66:LEU:C	2.27	0.55
1:M:209:LEU:CD1	1:M:211:PRO:O	2.55	0.55
1:M:80:ASN:HB3	1:M:258:GLY:O	2.07	0.55
2:N:255:THR:HG22	2:N:255:THR:O	2.06	0.55
1:A:78:THR:HG23	1:A:259:SER:O	2.07	0.55
1:A:87:THR:O	1:A:88:GLU:CD	2.44	0.55
1:C:101:PHE:CE1	1:C:149:SER:OG	2.59	0.55
1:C:49:GLN:HG3	1:C:232:TRP:O	2.05	0.55
1:G:159:ASP:OD2	1:G:159:ASP:C	2.45	0.55
1:H:164:ASN:N	1:H:164:ASN:HD22	2.03	0.55
1:J:42:SER:OG	1:J:45:PHE:HB3	2.06	0.55
1:K:27:VAL:HG23	1:M:11:VAL:HG23	1.89	0.55
1:K:361:TRP:CG	1:K:362:ASN:N	2.75	0.55
1:M:505:ARG:HG2	1:M:506:ILE:H	1.72	0.55
2:N:182:TYR:C	2:N:182:TYR:CD2	2.79	0.55
1:B:150:PHE:CE1	1:B:179:GLU:CD	2.80	0.55
1:C:74:ASP:OD1	1:C:74:ASP:C	2.45	0.55
1:E:408:LYS:HE2	1:E:410:ILE:HD11	1.89	0.55
1:G:254:ASN:H	1:G:254:ASN:ND2	1.93	0.55
1:G:324:ARG:HB3	1:G:465:VAL:HG23	1.88	0.55
1:H:445:MET:SD	1:H:445:MET:C	2.85	0.55
1:J:286:ILE:HG22	1:J:288:TYR:CE2	2.41	0.55
1:L:19:GLU:N	1:L:19:GLU:CD	2.59	0.55
1:M:314:SER:HB3	1:M:443:VAL:O	2.07	0.55
1:A:172:THR:O	1:A:173:SER:CB	2.55	0.55
1:A:449:ASN:C	1:A:449:ASN:ND2	2.60	0.55
1:C:1:MET:C	1:C:3:ASN:H	2.11	0.55
1:C:59:ALA:O	1:C:60:GLN:OE1	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:36:THR:OG1	1:D:37:TYR:N	2.39	0.55
1:D:451:ASN:C	1:D:451:ASN:OD1	2.45	0.55
1:E:444:GLN:O	1:E:444:GLN:HG3	2.05	0.55
1:H:64:ASP:OD2	1:H:272:GLY:HA3	2.06	0.55
1:I:303:THR:OG1	1:I:455:THR:HG22	2.07	0.55
1:J:34:GLN:O	1:J:36:THR:HG22	2.07	0.55
1:K:140:LYS:CD	1:K:179:GLU:CD	2.72	0.55
1:K:399:PHE:HA	1:K:407:THR:HB	1.88	0.55
1:L:485:SER:O	1:L:489:VAL:HG23	2.07	0.55
1:M:437:GLY:O	1:M:439:PHE:CE2	2.60	0.55
1:D:51:ASN:ND2	2:N:293:GLN:HB3	2.22	0.55
2:N:299:PHE:CZ	2:N:313:ILE:HG13	2.40	0.55
1:A:297:THR:HG23	1:F:302:ASN:ND2	2.20	0.55
1:B:164:ASN:ND2	1:C:173:SER:O	2.39	0.55
1:D:235:ASN:HD22	1:D:236:ASN:H	1.54	0.55
1:D:490:LEU:O	1:D:491:ASN:ND2	2.28	0.55
1:D:4:SER:O	1:D:5:ALA:C	2.44	0.55
1:G:386:ASN:C	1:G:386:ASN:ND2	2.51	0.55
1:J:372:SER:HB3	1:J:375:ASN:HB2	1.89	0.55
1:K:342:ASN:O	1:K:346:THR:HG23	2.07	0.55
1:M:341:LEU:HD13	1:M:341:LEU:C	2.24	0.55
1:A:250:ASP:O	1:A:251:VAL:HG22	2.07	0.54
1:C:291:PHE:HE2	1:C:508:GLY:HA2	1.68	0.54
1:D:187:MET:C	1:D:187:MET:SD	2.77	0.54
1:D:353:GLN:HG3	1:D:353:GLN:O	2.06	0.54
1:E:73:TYR:CE1	1:E:201:GLY:N	2.68	0.54
1:H:212:PHE:HE2	1:H:230:PHE:CE1	2.25	0.54
1:I:120:ASN:O	1:I:120:ASN:ND2	2.40	0.54
1:J:89:ASN:HB2	1:J:192:ASN:ND2	2.21	0.54
1:K:100:ALA:CB	1:K:182:ARG:HD3	2.33	0.54
1:L:456:VAL:HG13	1:L:456:VAL:O	2.07	0.54
1:M:103:ILE:O	1:M:103:ILE:HG13	2.07	0.54
1:L:21:ASN:HB3	1:M:283:PRO:HD3	1.89	0.54
2:N:173:LYS:CD	2:N:251:GLN:O	2.51	0.54
1:B:208:PHE:CE1	1:B:214:TRP:CD1	2.92	0.54
1:C:187:MET:C	1:C:187:MET:SD	2.82	0.54
1:C:336:VAL:HG22	1:C:337:ILE:H	1.71	0.54
1:E:342:ASN:ND2	1:E:346:THR:CG2	2.70	0.54
1:E:437:GLY:O	1:E:438:ASN:CB	2.55	0.54
1:H:407:THR:O	1:H:407:THR:CG2	2.54	0.54
1:J:327:TYR:HD2	1:J:327:TYR:N	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:363:ASN:ND2	1:L:320:ASP:OD2	2.40	0.54
1:L:440:ASN:N	1:L:440:ASN:OD1	2.40	0.54
2:N:115:PRO:HG3	2:N:128:THR:HG21	1.89	0.54
1:A:322:ILE:HG12	1:A:439:PHE:CE2	2.42	0.54
1:A:34:GLN:HE22	1:J:364:GLN:HB3	1.59	0.54
1:B:322:ILE:HG23	1:B:421:LEU:HD23	1.89	0.54
1:C:89:ASN:ND2	1:C:192:ASN:ND2	2.52	0.54
1:D:357:LEU:CD1	1:D:358:ASN:CA	2.80	0.54
1:E:45:PHE:HD1	1:E:46:SER:N	2.02	0.54
1:F:143:TRP:C	1:F:145:SER:H	2.10	0.54
1:F:209:LEU:HG	1:F:210:PRO:HD2	1.88	0.54
1:F:249:ASN:HB2	1:F:255:SER:HA	1.89	0.54
1:G:180:LEU:HD23	1:G:180:LEU:H	1.73	0.54
1:G:5:ALA:HA	1:G:7:PRO:N	2.21	0.54
1:J:158:ARG:CB	1:J:158:ARG:HH11	2.20	0.54
1:J:322:ILE:HD11	1:J:432:ALA:C	2.28	0.54
1:J:153:ASN:O	1:J:412:LEU:O	2.25	0.54
1:L:339:GLN:O	1:L:340:ASN:HB2	2.07	0.54
2:N:300:VAL:HB	2:N:301:PRO:HD2	1.90	0.54
2:N:333:TYR:HB3	2:N:334:MET:SD	2.44	0.54
1:B:459:ASP:OD2	1:B:461:TYR:CE2	2.60	0.54
1:B:4:SER:HB2	1:B:6:ILE:O	2.07	0.54
1:C:186:THR:HG23	1:C:186:THR:O	2.08	0.54
1:C:379:PHE:HB2	1:C:423:LYS:NZ	2.23	0.54
1:C:380:SER:OG	1:C:385:TYR:HB2	2.07	0.54
1:D:85:GLY:HA2	1:D:86:ILE:CG2	2.37	0.54
1:F:249:ASN:O	1:F:250:ASP:CB	2.54	0.54
1:F:313:LYS:HG2	1:F:442:GLN:OE1	2.08	0.54
1:H:2:SER:HA	1:H:7:PRO:HA	1.90	0.54
1:I:491:ASN:O	1:I:491:ASN:ND2	2.30	0.54
1:K:104:SER:HB3	1:K:205:GLU:CD	2.28	0.54
1:K:73:TYR:CE2	1:K:199:ILE:HD11	2.40	0.54
2:N:255:THR:CG2	2:N:258:ASN:H	2.20	0.54
1:C:251:VAL:CG2	1:C:252:SER:N	2.70	0.54
1:C:279:ASN:O	1:C:281:PRO:HD3	2.08	0.54
1:D:286:ILE:CD1	1:D:287:THR:H	2.03	0.54
1:D:42:SER:HB2	1:D:52:PHE:CE1	2.42	0.54
1:F:328:LEU:CD1	1:F:417:VAL:HB	2.37	0.54
1:F:367:ILE:O	1:F:369:SER:N	2.40	0.54
1:F:379:PHE:CD1	1:F:379:PHE:O	2.60	0.54
1:G:469:THR:HG23	1:G:483:VAL:HG11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:140:LYS:HG3	1:I:179:GLU:HG2	1.90	0.54
1:I:326:LEU:O	1:I:327:TYR:HD2	1.91	0.54
1:I:341:LEU:HD12	1:I:342:ASN:N	2.22	0.54
1:K:34:GLN:CA	1:K:34:GLN:OE1	2.55	0.54
1:K:428:ARG:HB2	1:K:431:GLU:OE2	2.07	0.54
1:L:250:ASP:OD2	1:L:251:VAL:C	2.46	0.54
2:N:263:LYS:HG3	2:N:344:GLN:HG3	1.90	0.54
1:A:65:ARG:HG3	1:A:221:GLY:HA2	1.90	0.54
1:A:33:GLN:O	1:A:34:GLN:HB2	2.08	0.54
1:B:222:LEU:HA	1:B:288:TYR:OH	2.08	0.54
1:B:305:ALA:HB2	1:B:455:THR:CB	2.35	0.54
1:D:343:ASN:ND2	1:D:344:GLN:CA	2.69	0.54
1:E:265:GLN:HA	1:E:265:GLN:HE21	1.72	0.54
1:E:45:PHE:HE2	1:E:266:GLN:CA	2.15	0.54
1:E:68:PHE:CZ	1:F:374:GLN:HG3	2.43	0.54
1:F:147:GLN:NE2	1:F:206:GLN:HB2	2.22	0.54
1:F:359:LEU:O	1:F:367:ILE:N	2.40	0.54
1:G:305:ALA:HB2	1:G:455:THR:HA	1.90	0.54
1:G:340:ASN:O	1:G:342:ASN:N	2.40	0.54
1:K:72:PRO:HD2	1:K:266:GLN:O	2.08	0.54
1:K:133:TYR:OH	1:K:418:CYS:HB3	2.07	0.54
2:N:196:ASN:C	2:N:198:ASN:H	2.11	0.54
1:B:192:ASN:C	1:B:193:THR:CG2	2.76	0.54
1:B:132:ARG:O	1:B:386:ASN:OD1	2.26	0.54
1:D:92:GLN:HB3	1:D:93:PRO:HD2	1.88	0.54
1:E:313:LYS:HG3	1:E:314:SER:N	2.22	0.54
1:F:41:PRO:HB2	1:F:266:GLN:NE2	2.23	0.54
1:G:19:GLU:CB	1:G:20:LEU:CA	2.84	0.54
1:J:75:ILE:HG23	1:J:262:ILE:HG13	1.90	0.54
1:L:379:PHE:CD1	1:L:379:PHE:C	2.81	0.54
1:L:426:GLY:C	1:L:427:LEU:HD13	2.28	0.54
1:M:501:ASN:ND2	1:M:501:ASN:O	2.30	0.54
2:N:103:PHE:CE1	2:N:131:TYR:CD1	2.85	0.54
2:N:160:ALA:HB2	2:N:182:TYR:CE2	2.42	0.54
2:N:84:ILE:O	2:N:84:ILE:CD1	2.55	0.54
1:A:19:GLU:H	1:A:20:LEU:HA	1.73	0.54
1:B:396:THR:OG1	1:B:410:ILE:HD13	2.08	0.54
1:B:6:ILE:HD13	1:C:285:ARG:HD2	1.86	0.54
1:C:495:THR:OG1	1:C:497:GLY:N	2.40	0.54
1:F:174:ALA:HB2	1:F:181:PRO:HD3	1.89	0.54
1:F:85:GLY:HA2	1:F:86:ILE:HB	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:207:VAL:O	1:G:207:VAL:CG1	2.54	0.54
1:G:282:ILE:HD12	1:G:283:PRO:CD	2.36	0.54
1:G:331:LYS:HG2	1:G:332:GLN:N	2.23	0.54
1:I:386:ASN:ND2	1:I:386:ASN:C	2.57	0.54
1:K:436:ILE:HG12	1:K:436:ILE:O	2.04	0.54
1:L:365:GLN:HG3	1:L:366:GLY:N	2.23	0.54
1:M:386:ASN:O	1:M:386:ASN:CG	2.46	0.54
1:M:85:GLY:CA	1:M:86:ILE:CB	2.85	0.54
1:A:1:MET:SD	1:A:10:VAL:HA	2.47	0.54
1:A:305:ALA:HB3	1:A:455:THR:HG23	1.88	0.54
1:A:89:ASN:OD1	1:A:192:ASN:O	2.26	0.54
1:G:393:ASN:CG	1:G:393:ASN:O	2.46	0.54
1:I:117:PHE:C	1:I:117:PHE:CD1	2.79	0.54
1:I:22:ASN:N	1:I:22:ASN:HD22	2.06	0.54
1:I:349:ASP:OD2	1:I:350:VAL:CA	2.56	0.54
1:K:230:PHE:C	1:K:231:ASN:ND2	2.61	0.54
1:M:437:GLY:HA3	1:M:439:PHE:CZ	2.42	0.54
2:N:140:LEU:HD11	2:N:174:ILE:HG12	1.90	0.54
2:N:227:PHE:CE1	2:N:232:TYR:CZ	2.86	0.54
1:C:360:THR:HG23	1:C:442:GLN:O	2.08	0.54
1:D:1:MET:CE	1:D:10:VAL:HA	2.38	0.54
1:E:132:ARG:HG3	1:E:132:ARG:HH11	1.73	0.54
1:G:101:PHE:N	1:G:101:PHE:CD2	2.76	0.54
1:G:158:ARG:HD3	1:G:247:ILE:HD12	1.90	0.54
1:I:11:VAL:HG23	1:J:27:VAL:HG22	1.90	0.54
1:J:416:ILE:CG1	1:J:416:ILE:O	2.56	0.54
1:K:16:PRO:HG3	1:M:423:LYS:HZ3	1.73	0.54
1:B:257:ILE:H	1:B:257:ILE:CD1	2.08	0.53
1:B:305:ALA:CB	1:B:455:THR:CA	2.86	0.53
1:B:6:ILE:HD11	1:C:285:ARG:HG2	1.90	0.53
1:C:208:PHE:O	1:C:214:TRP:CE3	2.54	0.53
1:C:412:LEU:HD12	1:C:413:GLU:CA	2.36	0.53
1:C:5:ALA:CB	1:D:471:VAL:HG21	2.32	0.53
1:B:471:VAL:HG21	1:D:5:ALA:CB	2.38	0.53
1:D:5:ALA:HB1	1:D:6:ILE:CD1	2.37	0.53
1:H:79:ALA:CB	1:H:195:THR:HA	2.38	0.53
1:I:379:PHE:CZ	1:I:419:LEU:CD2	2.91	0.53
1:J:340:ASN:OD1	1:J:342:ASN:N	2.40	0.53
1:J:117:PHE:HB2	1:J:477:ALA:HB3	1.89	0.53
1:L:256:THR:OG1	1:L:257:ILE:N	2.39	0.53
1:L:77:PHE:N	1:L:77:PHE:CD2	2.76	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:181:PRO:O	1:A:184:SER:HB3	2.09	0.53
1:B:192:ASN:O	1:B:193:THR:CG2	2.57	0.53
1:B:226:THR:HG23	1:B:474:ASN:HD21	1.72	0.53
1:B:337:ILE:CD1	1:B:338:TYR:CA	2.80	0.53
1:C:122:GLU:OE2	1:C:125:GLN:NE2	2.40	0.53
1:C:150:PHE:CE2	1:C:167:PRO:HA	2.43	0.53
1:B:164:ASN:HD22	1:C:173:SER:CA	2.21	0.53
1:D:5:ALA:CB	1:D:6:ILE:CD1	2.85	0.53
1:E:172:THR:HB	1:F:163:ALA:HB2	1.89	0.53
1:G:393:ASN:ND2	1:G:393:ASN:O	2.41	0.53
1:J:188:ASN:N	1:J:188:ASN:OD1	2.30	0.53
1:C:229:THR:HG21	1:L:41:PRO:HG2	1.89	0.53
1:M:241:ILE:HG22	1:M:242:TRP:N	2.23	0.53
1:M:249:ASN:HB2	1:M:255:SER:CA	2.25	0.53
2:N:95:TYR:C	2:N:154:ILE:HD11	2.29	0.53
1:B:99:ARG:HB3	1:B:241:ILE:O	2.09	0.53
1:C:379:PHE:HD1	1:C:424:ASP:OD2	1.92	0.53
1:D:251:VAL:O	1:D:251:VAL:HG22	2.07	0.53
1:D:244:HIS:CG	1:D:345:ILE:HD11	2.42	0.53
1:D:368:LEU:CD2	1:D:379:PHE:HZ	2.20	0.53
1:F:250:ASP:OD2	1:F:251:VAL:HG22	2.09	0.53
1:G:341:LEU:O	1:G:345:ILE:HG23	2.07	0.53
1:H:165:ASN:O	1:H:166:ASN:C	2.46	0.53
1:K:59:ALA:O	1:K:60:GLN:CB	2.51	0.53
1:L:161:ASP:CG	1:L:162:GLY:N	2.61	0.53
1:L:28:VAL:HG23	1:M:432:ALA:CB	2.38	0.53
1:M:1:MET:HG3	1:M:10:VAL:CG2	2.38	0.53
1:M:438:ASN:N	1:M:439:PHE:CE2	2.77	0.53
1:M:474:ASN:OD1	1:M:475:THR:OG1	2.20	0.53
1:A:135:THR:CG2	1:A:139:VAL:HG12	2.38	0.53
1:A:474:ASN:C	1:A:474:ASN:OD1	2.46	0.53
1:A:83:HIS:CB	1:A:254:ASN:ND2	2.69	0.53
1:B:196:THR:HG23	1:B:197:ALA:H	1.71	0.53
1:B:209:LEU:O	1:B:212:PHE:O	2.26	0.53
1:E:172:THR:HB	1:F:163:ALA:CB	2.38	0.53
1:E:246:ASP:OD2	1:E:249:ASN:ND2	2.41	0.53
1:E:380:SER:HB2	1:E:383:ASN:HD22	1.74	0.53
1:E:65:ARG:CG	1:E:65:ARG:HH11	2.21	0.53
1:F:120:ASN:HD22	1:F:120:ASN:N	2.07	0.53
1:F:490:LEU:HB3	1:F:491:ASN:ND2	2.23	0.53
1:F:89:ASN:HD21	1:G:403:SER:CA	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:24:ARG:NH1	1:G:286:ILE:HD11	2.24	0.53
1:H:246:ASP:HA	1:H:249:ASN:ND2	2.24	0.53
1:H:133:TYR:O	1:H:384:GLY:O	2.25	0.53
1:K:423:LYS:HG3	1:L:15:GLU:OE2	2.09	0.53
1:L:15:GLU:HG3	1:L:16:PRO:N	2.23	0.53
1:L:230:PHE:CD2	1:L:269:MET:HE1	2.44	0.53
1:L:4:SER:O	1:L:5:ALA:C	2.42	0.53
2:N:169:SER:O	2:N:170:ASN:CB	2.56	0.53
1:D:339:GLN:CB	2:N:28:ASP:H	2.04	0.53
1:A:367:ILE:HG22	1:A:368:LEU:HD12	1.91	0.53
1:C:96:ASP:HB3	1:C:242:TRP:HZ2	1.68	0.53
1:D:106:ILE:O	1:D:106:ILE:HG23	2.08	0.53
1:D:215:ASP:OD1	1:D:217:GLU:CD	2.45	0.53
1:D:85:GLY:CA	1:D:86:ILE:HB	2.29	0.53
1:E:341:LEU:CD2	1:E:341:LEU:N	2.71	0.53
1:I:166:ASN:C	1:I:166:ASN:OD1	2.46	0.53
1:I:328:LEU:HD12	1:I:417:VAL:O	2.08	0.53
1:M:125:GLN:NE2	1:M:334:ASP:OD2	2.42	0.53
1:M:102:PRO:C	1:M:241:ILE:HD11	2.28	0.53
1:M:474:ASN:CG	1:M:475:THR:OG1	2.47	0.53
2:N:226:ARG:HG2	2:N:228:LEU:CD1	2.28	0.53
2:N:65:ILE:HG21	2:N:262:VAL:HG23	1.89	0.53
2:N:20:ILE:HG21	2:N:36:PHE:HE1	1.71	0.53
1:A:36:THR:HG21	1:J:363:ASN:O	2.09	0.53
1:A:88:GLU:N	1:A:88:GLU:CD	2.62	0.53
1:B:380:SER:HB2	1:B:383:ASN:CG	2.29	0.53
1:B:68:PHE:CZ	1:D:374:GLN:HG3	2.43	0.53
1:C:332:GLN:OE1	1:C:333:SER:N	2.41	0.53
1:C:53:ILE:O	1:C:53:ILE:HG13	2.09	0.53
1:E:304:LEU:CD2	1:E:304:LEU:N	2.65	0.53
1:E:92:GLN:HB2	1:E:95:ARG:HG2	1.90	0.53
1:F:325:LYS:NZ	1:F:420:GLU:HG2	2.20	0.53
1:G:158:ARG:O	1:G:247:ILE:HD13	2.08	0.53
1:G:49:GLN:HG2	1:G:232:TRP:O	2.08	0.53
1:H:218:GLN:CA	1:H:218:GLN:OE1	2.48	0.53
1:I:358:ASN:C	1:I:358:ASN:OD1	2.46	0.53
1:I:377:TYR:HD2	1:I:377:TYR:C	1.96	0.53
1:J:33:GLN:O	1:J:34:GLN:CB	2.45	0.53
1:K:6:ILE:HD13	1:K:6:ILE:H	1.74	0.53
1:L:100:ALA:H	1:L:182:ARG:HH11	1.55	0.53
1:B:484:ALA:HA	1:D:1:MET:H2	1.68	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:341:LEU:HB3	1:C:344:GLN:OE1	2.09	0.53
1:C:387:LYS:HZ3	1:C:387:LYS:HA	1.73	0.53
1:E:166:ASN:OD1	1:E:166:ASN:C	2.47	0.53
1:E:172:THR:O	1:E:173:SER:HB2	2.09	0.53
1:E:467:ASP:HB3	1:G:26:TRP:HH2	1.72	0.53
1:G:501:ASN:ND2	1:G:501:ASN:N	2.56	0.53
1:J:341:LEU:CD1	1:J:342:ASN:CA	2.72	0.53
1:J:358:ASN:OD1	1:J:358:ASN:C	2.47	0.53
1:K:399:PHE:O	1:M:93:PRO:HA	2.08	0.53
1:K:84:ALA:HB1	1:K:86:ILE:HG21	1.89	0.53
1:M:99:ARG:HB3	1:M:241:ILE:O	2.09	0.53
1:M:318:GLN:H	1:M:318:GLN:HE21	1.57	0.53
1:M:322:ILE:H	1:M:322:ILE:HD12	1.74	0.53
2:N:62:THR:HG23	2:N:65:ILE:HD12	1.90	0.53
1:B:361:TRP:CG	1:B:362:ASN:N	2.77	0.53
1:B:313:LYS:HZ3	1:B:444:GLN:NE2	2.06	0.53
1:C:255:SER:OG	1:C:342:ASN:ND2	2.42	0.53
1:C:367:ILE:HG22	1:C:368:LEU:HD13	1.90	0.53
1:F:353:GLN:HB2	1:F:393:ASN:HA	1.90	0.53
1:F:421:LEU:HA	1:F:425:VAL:HG23	1.90	0.53
1:G:265:GLN:O	1:G:266:GLN:C	2.45	0.53
1:H:110:LEU:HD21	1:H:232:TRP:CE2	2.43	0.53
1:I:1:MET:SD	1:J:26:TRP:HD1	2.31	0.53
1:I:246:ASP:OD1	1:I:346:THR:HG21	2.09	0.53
1:I:303:THR:OG1	1:I:455:THR:CG2	2.57	0.53
1:J:353:GLN:O	1:J:353:GLN:HG2	2.07	0.53
1:K:340:ASN:O	1:K:342:ASN:N	2.42	0.53
1:L:133:TYR:OH	1:L:418:CYS:HB3	2.09	0.53
1:L:155:GLN:HG2	1:L:451:ASN:HA	1.90	0.53
1:M:362:ASN:O	1:M:363:ASN:CB	2.56	0.53
1:M:134:HIS:CD2	1:M:507:TYR:CD2	2.88	0.53
2:N:173:LYS:HD2	2:N:254:PRO:HD2	1.86	0.53
1:A:22:ASN:N	1:A:22:ASN:ND2	2.53	0.53
1:C:324:ARG:HB2	1:C:467:ASP:OD1	2.09	0.53
1:D:190:VAL:HG22	1:D:198:ARG:HB3	1.90	0.53
1:D:322:ILE:HG21	1:D:433:GLU:OE2	2.09	0.53
1:D:461:TYR:O	1:D:462:ILE:CG1	2.57	0.53
1:F:295:ARG:HD3	1:F:295:ARG:H	1.74	0.53
1:G:380:SER:O	1:G:383:ASN:HB2	2.08	0.53
1:G:73:TYR:HD2	1:G:75:ILE:HD12	1.74	0.53
1:H:41:PRO:CB	1:H:266:GLN:HE21	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:336:VAL:HG13	1:M:337:ILE:N	2.23	0.53
1:M:474:ASN:CG	1:M:475:THR:HG1	2.09	0.53
2:N:160:ALA:HB2	2:N:182:TYR:HE2	1.73	0.53
2:N:25:LYS:HZ1	2:N:26:PRO:HD2	1.73	0.53
2:N:79:ASN:C	2:N:81:ASN:H	2.11	0.53
1:D:250:ASP:HB2	1:D:251:VAL:HG12	1.91	0.53
1:D:252:SER:HB2	1:D:253:GLY:CA	2.35	0.53
1:D:507:TYR:CG	1:D:508:GLY:C	2.80	0.53
1:E:1:MET:HE2	1:E:10:VAL:HA	1.89	0.53
1:E:467:ASP:HB3	1:G:26:TRP:CH2	2.44	0.53
1:G:378:ASP:HA	1:G:381:VAL:HG12	1.90	0.53
1:H:387:LYS:HE3	1:H:391:GLU:CD	2.29	0.53
1:I:195:THR:C	1:I:196:THR:CG2	2.77	0.53
1:I:320:ASP:O	1:I:437:GLY:HA3	2.08	0.53
1:J:134:HIS:C	1:J:135:THR:CG2	2.74	0.53
1:J:286:ILE:HG21	1:J:288:TYR:CZ	2.43	0.53
1:I:89:ASN:ND2	1:J:401:GLY:HA2	2.20	0.53
1:L:151:GLU:OE2	1:L:151:GLU:HA	2.09	0.53
2:N:143:ILE:HG12	2:N:203:PHE:HZ	1.74	0.53
1:A:89:ASN:CG	1:A:192:ASN:ND2	2.63	0.52
1:B:364:GLN:C	1:B:365:GLN:HG3	2.27	0.52
1:C:19:GLU:HB2	1:C:20:LEU:C	2.30	0.52
1:C:383:ASN:ND2	1:C:420:GLU:OE2	2.42	0.52
1:C:84:ALA:HB1	1:C:86:ILE:N	2.21	0.52
1:D:122:GLU:OE2	1:D:122:GLU:HA	2.09	0.52
1:D:51:ASN:HD21	2:N:292:ALA:C	2.12	0.52
1:E:265:GLN:HE21	1:E:265:GLN:CA	2.23	0.52
1:I:264:PHE:C	1:I:265:GLN:CD	2.67	0.52
1:J:394:GLY:O	1:J:395:VAL:HG22	2.09	0.52
1:K:22:ASN:HD22	1:K:22:ASN:N	2.07	0.52
1:L:140:LYS:HG3	1:L:179:GLU:HG2	1.91	0.52
1:L:174:ALA:O	1:M:165:ASN:HB3	2.09	0.52
1:L:45:PHE:CE2	1:L:266:GLN:CB	2.92	0.52
1:M:313:LYS:HE2	1:M:442:GLN:CD	2.30	0.52
2:N:159:GLY:O	2:N:182:TYR:OH	2.27	0.52
2:N:196:ASN:C	2:N:197:VAL:HG13	2.28	0.52
1:A:239:ALA:HB3	1:A:344:GLN:HE22	1.73	0.52
1:A:350:VAL:HG21	1:A:413:GLU:HA	1.92	0.52
1:A:396:THR:OG1	1:A:412:LEU:HG	2.09	0.52
1:C:75:ILE:CG2	1:C:76:THR:H	2.22	0.52
1:F:250:ASP:OD1	1:F:251:VAL:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:266:GLN:N	1:F:267:PRO:CD	2.72	0.52
1:G:340:ASN:O	1:G:341:LEU:HB3	2.07	0.52
1:I:191:THR:O	1:I:192:ASN:CB	2.56	0.52
1:I:372:SER:O	1:I:375:ASN:N	2.42	0.52
1:I:506:ILE:HG23	1:I:507:TYR:H	1.74	0.52
1:J:189:VAL:CG1	1:J:189:VAL:O	2.57	0.52
1:J:70:GLN:HB3	1:J:204:TYR:CD1	2.45	0.52
1:K:484:ALA:HB2	1:L:1:MET:HG2	1.92	0.52
1:K:95:ARG:NH1	1:K:95:ARG:CG	2.67	0.52
1:L:305:ALA:HB1	1:L:306:PRO:HA	1.92	0.52
1:M:396:THR:HG23	1:M:412:LEU:CD2	2.38	0.52
2:N:12:GLU:N	2:N:13:PRO:CD	2.71	0.52
1:B:301:GLN:HE21	1:G:301:GLN:HB3	1.74	0.52
1:B:155:GLN:HB2	1:B:411:GLY:CA	2.39	0.52
1:B:474:ASN:C	1:B:474:ASN:ND2	2.52	0.52
1:D:76:THR:HB	1:D:198:ARG:HG2	1.92	0.52
1:C:283:PRO:HD3	1:D:21:ASN:HB3	1.92	0.52
1:D:293:LEU:HD22	1:D:465:VAL:HG12	1.92	0.52
1:F:77:PHE:CD2	1:F:77:PHE:N	2.77	0.52
1:G:329:PHE:HB2	1:G:351:PHE:HD2	1.74	0.52
1:G:429:ASP:O	1:G:430:ASP:CB	2.54	0.52
1:H:121:ILE:HD11	1:H:293:LEU:CG	2.06	0.52
1:I:172:THR:O	1:I:173:SER:CB	2.57	0.52
1:M:190:VAL:HG23	1:M:191:THR:HG23	1.90	0.52
1:A:297:THR:HB	1:A:461:TYR:CE1	2.44	0.52
1:C:95:ARG:HB3	1:C:245:SER:HB3	1.92	0.52
1:C:99:ARG:NH2	1:C:347:THR:O	2.42	0.52
1:D:127:ILE:HG23	1:D:128:HIS:N	2.24	0.52
1:E:3:ASN:HD22	1:E:4:SER:H	1.56	0.52
1:F:210:PRO:CB	1:F:211:PRO:CD	2.78	0.52
1:F:73:TYR:CD1	1:F:203:LEU:HD22	2.44	0.52
1:F:87:THR:C	1:F:88:GLU:CG	2.77	0.52
1:G:362:ASN:C	1:G:362:ASN:OD1	2.48	0.52
1:H:188:ASN:OD1	1:H:200:THR:O	2.28	0.52
1:H:310:SER:O	1:H:312:PHE:HE2	1.92	0.52
1:H:330:VAL:CG1	1:H:331:LYS:H	2.22	0.52
1:I:41:PRO:CB	1:I:266:GLN:HE21	2.19	0.52
1:K:62:VAL:HA	1:K:223:ALA:HB2	1.90	0.52
1:L:101:PHE:CD2	1:L:101:PHE:N	2.77	0.52
1:L:76:THR:HB	1:L:198:ARG:HG3	1.91	0.52
1:L:82:SER:O	1:L:84:ALA:CB	2.58	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:92:GLN:HB3	1:A:95:ARG:HD3	1.91	0.52
1:B:180:LEU:HD22	1:B:180:LEU:H	1.75	0.52
1:C:494:ILE:CD1	1:C:495:THR:C	2.78	0.52
1:E:155:GLN:HG3	1:E:451:ASN:HB2	1.92	0.52
1:E:304:LEU:CD2	1:E:304:LEU:C	2.77	0.52
1:E:380:SER:HG	1:E:384:GLY:N	2.08	0.52
1:G:343:ASN:HA	1:G:346:THR:OG1	2.10	0.52
1:G:80:ASN:HB2	1:G:258:GLY:O	2.08	0.52
1:I:127:ILE:HG23	1:I:128:HIS:N	2.24	0.52
1:I:305:ALA:HB1	1:I:306:PRO:HA	1.91	0.52
1:I:487:GLU:O	1:I:490:LEU:O	2.26	0.52
1:I:490:LEU:CD2	1:I:491:ASN:CB	2.79	0.52
1:I:499:SER:HB2	1:I:501:ASN:ND2	2.20	0.52
1:J:133:TYR:CE2	1:J:416:ILE:HG12	2.44	0.52
1:L:84:ALA:HB1	1:L:85:GLY:C	2.28	0.52
1:M:231:ASN:ND2	1:M:231:ASN:N	2.57	0.52
1:M:300:PHE:C	1:M:301:GLN:HE21	2.11	0.52
1:M:352:LEU:HD21	1:M:456:VAL:HG11	1.92	0.52
2:N:257:SER:OG	2:N:258:ASN:N	2.40	0.52
1:A:108:ASN:O	1:A:108:ASN:ND2	2.30	0.52
1:C:123:LEU:HD23	1:C:127:ILE:CB	2.38	0.52
1:D:211:PRO:O	1:D:212:PHE:C	2.45	0.52
1:G:147:GLN:HE21	1:G:206:GLN:H	1.58	0.52
1:G:87:THR:O	1:G:88:GLU:CB	2.58	0.52
1:H:428:ARG:HD3	1:H:429:ASP:CA	2.36	0.52
1:I:265:GLN:CD	1:I:265:GLN:N	2.63	0.52
1:I:377:TYR:HD1	1:I:389:TRP:HE3	1.57	0.52
1:H:187:MET:H	1:I:397:GLN:HG2	1.74	0.52
1:I:490:LEU:HD22	1:I:490:LEU:C	2.21	0.52
1:J:265:GLN:HG2	1:L:302:ASN:HB3	1.92	0.52
1:J:441:LEU:HD22	1:J:442:GLN:N	2.24	0.52
1:M:150:PHE:CE1	1:M:179:GLU:OE1	2.62	0.52
1:M:385:TYR:O	1:M:386:ASN:CB	2.58	0.52
2:N:156:ALA:CB	2:N:157:PRO:CA	2.72	0.52
2:N:322:ARG:NH1	2:N:322:ARG:CG	2.68	0.52
2:N:85:TYR:CD2	2:N:85:TYR:N	2.77	0.52
1:A:449:ASN:HD21	1:A:451:ASN:HB3	1.74	0.52
1:B:484:ALA:HA	1:D:1:MET:H1	1.73	0.52
1:B:423:LYS:CA	1:D:15:GLU:OE2	2.48	0.52
1:E:9:ASN:HB2	1:F:25:THR:CG2	2.37	0.52
1:I:170:VAL:HG11	1:J:398:GLN:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:1:MET:SD	1:I:10:VAL:CB	2.98	0.52
1:I:363:ASN:CG	1:I:363:ASN:O	2.48	0.52
1:I:322:ILE:HD11	1:I:433:GLU:O	2.09	0.52
1:J:38:TYR:N	1:J:38:TYR:CD2	2.77	0.52
1:J:45:PHE:CE2	1:J:266:GLN:HB2	2.45	0.52
1:K:484:ALA:N	1:L:1:MET:HB3	2.25	0.52
1:L:232:TRP:N	1:L:232:TRP:CD1	2.78	0.52
1:L:6:ILE:HD13	1:L:6:ILE:H	1.73	0.52
1:M:137:LEU:HD22	1:M:137:LEU:C	2.30	0.52
2:N:357:ARG:CZ	2:N:357:ARG:CB	2.87	0.52
1:A:132:ARG:CG	1:A:132:ARG:NH1	2.55	0.52
1:A:210:PRO:HG2	1:A:291:PHE:HB2	1.91	0.52
1:E:279:ASN:H	1:E:279:ASN:HD22	1.56	0.52
1:E:335:ASN:OD1	1:J:238:LEU:HD23	2.09	0.52
1:E:380:SER:HB2	1:E:383:ASN:ND2	2.25	0.52
1:F:63:LEU:HD22	1:F:64:ASP:N	2.24	0.52
1:G:505:ARG:HH11	1:G:505:ARG:CG	2.22	0.52
1:H:109:THR:HG23	1:H:233:VAL:HG13	1.91	0.52
1:J:158:ARG:HG3	1:J:158:ARG:HH11	1.73	0.52
1:J:314:SER:O	1:J:315:ASN:HB3	2.09	0.52
1:J:84:ALA:HA	1:J:85:GLY:C	2.29	0.52
1:M:504:GLN:O	1:M:506:ILE:O	2.27	0.52
1:M:72:PRO:HG2	1:M:265:GLN:CB	2.37	0.52
2:N:66:PRO:HG3	2:N:132:TYR:CG	2.45	0.52
2:N:291:ASN:HD22	2:N:292:ALA:N	2.08	0.52
2:N:50:GLU:N	2:N:50:GLU:OE1	2.43	0.52
1:E:105:SER:HB2	1:E:128:HIS:HE1	1.74	0.52
1:E:99:ARG:NH2	1:E:347:THR:O	2.43	0.52
1:F:100:ALA:HB2	1:F:182:ARG:CD	2.40	0.52
1:F:52:PHE:N	1:F:52:PHE:CD2	2.77	0.52
1:F:37:TYR:CG	1:G:375:ASN:ND2	2.78	0.52
1:I:143:TRP:HB3	1:I:206:GLN:HE22	1.74	0.52
1:J:251:VAL:CG2	1:J:252:SER:N	2.72	0.52
1:K:231:ASN:N	1:K:231:ASN:ND2	2.57	0.52
1:M:353:GLN:HG3	1:M:353:GLN:O	2.09	0.52
2:N:274:ILE:CG2	2:N:275:ASN:N	2.71	0.52
2:N:324:ILE:HG22	2:N:325:ASP:N	2.25	0.52
2:N:61:PRO:HD2	2:N:359:LEU:HG	1.91	0.52
1:A:226:THR:HG21	1:A:475:THR:HG22	1.91	0.52
1:A:69:ILE:HG22	1:A:269:MET:SD	2.49	0.52
1:C:314:SER:OG	1:C:443:VAL:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:235:ASN:HD22	1:D:236:ASN:N	2.06	0.52
1:D:498:VAL:HG22	1:D:499:SER:N	2.25	0.52
1:E:364:GLN:HB3	1:E:367:ILE:HD11	1.92	0.52
1:E:493:ARG:CG	1:E:493:ARG:NH1	2.69	0.52
1:E:83:HIS:ND1	1:E:84:ALA:N	2.58	0.52
1:F:108:ASN:HB2	1:F:235:ASN:OD1	2.09	0.52
1:F:413:GLU:CG	1:F:414:GLY:N	2.72	0.52
1:F:429:ASP:O	1:F:430:ASP:HB2	2.07	0.52
1:I:209:LEU:HD12	1:I:209:LEU:O	2.10	0.52
1:J:205:GLU:CD	1:J:232:TRP:CH2	2.83	0.52
1:J:63:LEU:HD22	1:J:64:ASP:O	2.09	0.52
1:K:132:ARG:HH21	1:K:413:GLU:CD	2.13	0.52
1:L:46:SER:OG	1:L:47:SER:N	2.42	0.52
1:M:22:ASN:ND2	1:M:22:ASN:H	2.06	0.52
1:E:165:ASN:OD1	1:G:171:PHE:HE1	1.94	0.51
1:E:230:PHE:C	1:E:231:ASN:HD22	2.13	0.51
1:H:100:ALA:HB2	1:H:182:ARG:HD2	1.91	0.51
1:H:302:ASN:ND2	1:H:302:ASN:H	2.07	0.51
1:H:302:ASN:N	1:H:302:ASN:ND2	2.56	0.51
1:I:358:ASN:HA	1:I:368:LEU:O	2.10	0.51
1:I:493:ARG:O	1:I:493:ARG:CG	2.57	0.51
1:K:336:VAL:O	1:K:339:GLN:HG2	2.10	0.51
1:L:92:GLN:HG2	1:L:95:ARG:HE	1.75	0.51
1:M:73:TYR:HD1	1:M:203:LEU:HD22	1.75	0.51
1:K:25:THR:HG21	1:M:9:ASN:HB3	1.92	0.51
2:N:193:ILE:HG13	2:N:223:PHE:HB2	1.92	0.51
1:A:208:PHE:O	1:A:209:LEU:HG	2.10	0.51
1:A:322:ILE:HG12	1:A:439:PHE:HE2	1.75	0.51
1:B:337:ILE:C	1:B:337:ILE:CD1	2.50	0.51
1:C:210:PRO:HA	1:C:211:PRO:C	2.30	0.51
1:E:2:SER:O	1:E:3:ASN:CG	2.49	0.51
1:E:43:THR:C	1:E:44:SER:HG	2.10	0.51
1:G:501:ASN:ND2	1:G:501:ASN:H	2.08	0.51
1:I:39:PRO:HB3	1:I:270:TYR:CE1	2.45	0.51
1:I:400:ASN:ND2	1:I:405:GLN:HB3	2.25	0.51
1:K:402:VAL:HG13	1:K:405:GLN:OE1	2.10	0.51
1:K:443:VAL:HG22	1:K:444:GLN:N	2.25	0.51
1:L:19:GLU:CB	1:L:20:LEU:HA	2.39	0.51
1:J:57:PRO:HA	1:L:363:ASN:HD21	1.75	0.51
1:M:136:PRO:HD2	1:M:139:VAL:CB	2.23	0.51
1:K:26:TRP:HD1	1:M:1:MET:SD	2.32	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:505:ARG:NH1	1:B:505:ARG:CG	2.67	0.51
1:B:8:LEU:O	1:B:8:LEU:CD1	2.51	0.51
1:C:73:TYR:CD1	1:C:203:LEU:HD22	2.44	0.51
1:D:400:ASN:CG	1:D:400:ASN:O	2.49	0.51
1:D:470:LEU:HD12	1:D:470:LEU:C	2.31	0.51
1:E:436:ILE:HG13	1:E:437:GLY:CA	2.32	0.51
1:F:250:ASP:HA	1:F:251:VAL:C	2.30	0.51
1:F:90:LEU:O	1:F:91:LEU:HB2	2.11	0.51
1:G:49:GLN:CG	1:G:232:TRP:O	2.59	0.51
1:I:490:LEU:O	1:I:491:ASN:CB	2.56	0.51
1:K:230:PHE:CD2	1:K:230:PHE:N	2.79	0.51
1:K:75:ILE:HG13	1:K:262:ILE:HG23	1.92	0.51
1:L:360:THR:HB	1:L:365:GLN:HA	1.93	0.51
1:L:59:ALA:O	1:L:60:GLN:HB2	2.09	0.51
2:N:357:ARG:HG3	2:N:358:ILE:H	1.75	0.51
2:N:267:LEU:HD21	2:N:361:CYS:SG	2.50	0.51
1:A:319:LEU:N	1:A:319:LEU:CD1	2.73	0.51
1:C:89:ASN:HD22	1:C:193:THR:HA	1.71	0.51
1:E:101:PHE:CD2	1:E:101:PHE:N	2.78	0.51
1:E:295:ARG:NH1	1:E:297:THR:HG21	2.25	0.51
1:E:322:ILE:HD13	1:E:322:ILE:H	1.74	0.51
1:E:341:LEU:HD23	1:E:341:LEU:N	2.22	0.51
1:E:428:ARG:HG3	1:E:431:GLU:OE1	2.10	0.51
1:F:324:ARG:HH11	1:F:324:ARG:CG	2.12	0.51
1:F:51:ASN:C	1:F:51:ASN:OD1	2.49	0.51
1:H:69:ILE:HG12	1:H:70:GLN:N	2.25	0.51
1:I:76:THR:HG22	1:I:198:ARG:HG3	1.93	0.51
1:M:313:LYS:NZ	1:M:442:GLN:NE2	2.58	0.51
2:N:65:ILE:HG22	2:N:66:PRO:O	2.11	0.51
1:A:336:VAL:HG22	1:A:337:ILE:N	2.24	0.51
1:A:449:ASN:ND2	1:A:451:ASN:H	2.07	0.51
1:B:174:ALA:O	1:D:165:ASN:HB2	2.10	0.51
1:B:357:LEU:CD1	1:B:358:ASN:CA	2.84	0.51
1:C:33:GLN:O	1:C:34:GLN:HB3	2.10	0.51
1:C:62:VAL:HA	1:C:223:ALA:HB2	1.92	0.51
1:C:87:THR:O	1:C:88:GLU:CB	2.59	0.51
1:E:341:LEU:O	1:E:344:GLN:HG3	2.11	0.51
1:F:501:ASN:ND2	1:F:501:ASN:N	2.50	0.51
1:G:250:ASP:O	1:G:253:GLY:HA3	2.10	0.51
1:G:99:ARG:NH1	1:G:99:ARG:HB2	2.12	0.51
1:H:349:ASP:C	1:H:350:VAL:HG23	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:362:ASN:O	1:H:362:ASN:CG	2.49	0.51
1:H:483:VAL:HA	1:I:3:ASN:HD21	1.75	0.51
1:J:427:LEU:HB3	1:J:431:GLU:HG2	1.93	0.51
1:J:466:TYR:N	1:J:466:TYR:CD2	2.77	0.51
1:M:158:ARG:NH1	1:M:158:ARG:HG2	2.11	0.51
1:M:84:ALA:HA	1:M:86:ILE:HB	1.93	0.51
2:N:171:THR:OG1	2:N:172:GLU:CA	2.59	0.51
2:N:256:LEU:CG	2:N:307:PRO:CG	2.84	0.51
1:D:48:ASN:HD21	2:N:348:GLN:HB3	1.62	0.51
1:B:460:MET:O	1:B:460:MET:HG3	2.10	0.51
1:C:2:SER:OG	1:C:7:PRO:HB3	2.09	0.51
1:C:375:ASN:O	1:C:379:PHE:HD2	1.94	0.51
1:D:207:VAL:HG22	1:D:232:TRP:HH2	1.75	0.51
1:D:244:HIS:CB	1:D:345:ILE:HD11	2.41	0.51
1:D:391:GLU:OE1	1:D:413:GLU:CB	2.50	0.51
1:D:432:ALA:CB	1:D:489:VAL:HG11	2.40	0.51
1:A:53:ILE:HD12	1:E:41:PRO:HB3	1.81	0.51
1:F:190:VAL:HG22	1:F:198:ARG:HB3	1.91	0.51
1:G:133:TYR:OH	1:G:418:CYS:HB3	2.10	0.51
1:G:286:ILE:HD12	1:G:287:THR:H	1.76	0.51
1:I:173:SER:CA	1:J:164:ASN:OD1	2.59	0.51
1:J:328:LEU:HD23	1:J:443:VAL:HG21	1.93	0.51
1:J:92:GLN:HB2	1:J:95:ARG:HB2	1.90	0.51
1:K:143:TRP:C	1:K:145:SER:N	2.64	0.51
1:L:345:ILE:HG12	1:L:346:THR:HG22	1.93	0.51
2:N:171:THR:N	2:N:172:GLU:CA	2.65	0.51
2:N:24:PHE:C	2:N:24:PHE:HD1	2.13	0.51
1:A:430:ASP:OD1	1:A:490:LEU:HD12	2.10	0.51
1:C:237:ASN:O	1:C:239:ALA:N	2.43	0.51
1:C:89:ASN:HD22	1:C:193:THR:CA	2.24	0.51
1:D:203:LEU:HD23	1:D:203:LEU:N	2.25	0.51
1:D:210:PRO:HA	1:D:212:PHE:O	2.11	0.51
1:C:1:MET:H2	1:D:484:ALA:HA	1.75	0.51
1:F:210:PRO:HB3	1:F:291:PHE:O	2.10	0.51
1:F:351:PHE:HD1	1:F:414:GLY:HA3	1.76	0.51
1:F:364:GLN:C	1:F:364:GLN:OE1	2.49	0.51
1:G:208:PHE:CE1	1:G:214:TRP:CD1	2.83	0.51
1:H:172:THR:O	1:H:173:SER:CB	2.57	0.51
1:J:158:ARG:HG3	1:J:158:ARG:NH1	2.26	0.51
1:J:87:THR:HG22	1:J:88:GLU:CA	2.41	0.51
1:L:251:VAL:C	1:L:252:SER:OG	2.48	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:461:TYR:O	1:L:462:ILE:HG13	2.09	0.51
2:N:66:PRO:HA	2:N:134:TYR:CD1	2.46	0.51
2:N:227:PHE:CG	2:N:227:PHE:O	2.63	0.51
1:B:364:GLN:CD	1:B:364:GLN:N	2.63	0.51
1:B:500:TYR:CE1	1:B:504:GLN:NE2	2.78	0.51
1:B:6:ILE:HD12	1:C:285:ARG:HD2	1.89	0.51
1:D:245:SER:HB2	1:D:247:ILE:HG22	1.92	0.51
1:D:341:LEU:O	1:D:344:GLN:N	2.43	0.51
1:D:408:LYS:HB3	1:D:408:LYS:NZ	2.26	0.51
1:E:304:LEU:HD22	1:E:304:LEU:N	2.04	0.51
1:E:324:ARG:HB2	1:E:467:ASP:OD1	2.11	0.51
1:F:285:ARG:HG3	1:F:285:ARG:NH1	2.26	0.51
1:H:127:ILE:HD11	1:H:208:PHE:CE1	2.45	0.51
1:I:267:PRO:C	1:I:268:SER:HG	2.09	0.51
1:I:69:ILE:HG23	1:I:205:GLU:CG	2.41	0.51
1:J:505:ARG:CZ	1:J:505:ARG:HB3	2.39	0.51
1:K:209:LEU:HD12	1:K:210:PRO:HD2	1.93	0.51
1:K:132:ARG:NH2	1:K:413:GLU:OE2	2.40	0.51
1:K:493:ARG:O	1:K:495:THR:HG22	2.11	0.51
1:L:251:VAL:HG13	1:L:251:VAL:O	2.10	0.51
1:M:111:ASN:C	1:M:111:ASN:OD1	2.48	0.51
1:M:362:ASN:O	1:M:363:ASN:HB3	2.11	0.51
2:N:229:GLY:HA3	2:N:231:ASN:HB2	1.92	0.51
1:B:190:VAL:CG2	1:B:198:ARG:C	2.79	0.51
1:C:474:ASN:CG	1:C:474:ASN:O	2.50	0.51
1:C:84:ALA:HB1	1:C:86:ILE:HG22	1.91	0.51
1:D:331:LYS:HE3	1:D:461:TYR:HE2	1.76	0.51
1:F:121:ILE:HD13	1:F:210:PRO:CG	2.40	0.51
1:F:140:LYS:HG2	1:F:179:GLU:OE2	2.10	0.51
1:F:237:ASN:ND2	1:F:238:LEU:H	2.09	0.51
1:G:440:ASN:N	1:G:440:ASN:OD1	2.43	0.51
1:G:86:ILE:O	1:G:86:ILE:HG12	2.11	0.51
1:H:187:MET:CG	1:H:187:MET:O	2.59	0.51
1:H:209:LEU:O	1:H:212:PHE:O	2.29	0.51
1:H:310:SER:O	1:H:312:PHE:CE2	2.64	0.51
1:I:109:THR:HG23	1:I:233:VAL:HG13	1.93	0.51
1:I:267:PRO:C	1:I:268:SER:OG	2.47	0.51
1:I:88:GLU:HB3	1:J:403:SER:CB	2.32	0.51
1:J:165:ASN:ND2	1:J:165:ASN:H	2.07	0.51
1:M:336:VAL:CG1	1:M:337:ILE:N	2.73	0.51
2:N:186:THR:HG23	2:N:226:ARG:CD	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:LEU:HD12	1:A:110:LEU:O	2.07	0.51
1:B:1:MET:N	1:B:2:SER:CA	2.70	0.51
1:B:222:LEU:HA	1:B:288:TYR:CZ	2.46	0.51
1:C:486:LYS:HA	1:C:489:VAL:CG1	2.41	0.51
1:C:488:GLU:OE2	1:C:489:VAL:N	2.44	0.51
1:D:416:ILE:O	1:D:416:ILE:HG12	2.10	0.51
1:E:369:SER:OG	1:L:109:THR:OG1	2.10	0.51
1:G:376:LEU:CA	1:G:379:PHE:HE2	2.21	0.51
1:I:309:SER:OG	1:I:310:SER:N	2.43	0.51
1:J:305:ALA:HB1	1:J:306:PRO:HD2	1.92	0.51
1:K:264:PHE:CD1	1:K:264:PHE:N	2.78	0.51
1:L:198:ARG:CG	1:L:198:ARG:NH1	2.63	0.51
1:A:401:GLY:C	1:A:402:VAL:HG23	2.31	0.50
1:C:310:SER:HB2	1:C:312:PHE:CZ	2.46	0.50
1:C:430:ASP:O	1:C:430:ASP:OD2	2.29	0.50
1:C:83:HIS:CE1	1:C:84:ALA:HA	2.47	0.50
1:D:499:SER:O	1:D:501:ASN:ND2	2.43	0.50
1:E:158:ARG:NH1	1:E:158:ARG:CB	2.72	0.50
1:F:293:LEU:HD22	1:F:465:VAL:HB	1.92	0.50
1:F:382:GLN:HG3	1:F:382:GLN:O	2.10	0.50
1:F:503:LEU:CA	1:F:506:ILE:HG23	2.40	0.50
1:F:65:ARG:CG	1:F:65:ARG:HH11	2.24	0.50
1:H:10:VAL:CG2	1:H:11:VAL:N	2.74	0.50
1:H:56:PRO:HG3	1:H:225:LEU:HD22	1.92	0.50
1:H:49:GLN:HE21	1:H:49:GLN:C	2.14	0.50
1:I:507:TYR:CG	1:I:508:GLY:N	2.78	0.50
1:J:325:LYS:HG3	1:J:327:TYR:HE2	1.76	0.50
1:K:170:VAL:HG23	1:K:172:THR:O	2.11	0.50
1:K:449:ASN:HD21	1:K:451:ASN:HB3	1.74	0.50
1:L:217:GLU:O	1:L:218:GLN:CB	2.59	0.50
1:A:304:LEU:HG	1:A:304:LEU:O	2.12	0.50
1:B:168:LEU:O	1:B:168:LEU:HD12	2.10	0.50
1:B:334:ASP:CG	1:B:461:TYR:OH	2.50	0.50
1:C:331:LYS:HG2	1:C:461:TYR:HE2	1.77	0.50
1:D:350:VAL:HG23	1:D:351:PHE:N	2.26	0.50
1:D:85:GLY:CA	1:D:86:ILE:CB	2.87	0.50
1:E:189:VAL:HG22	1:E:199:ILE:HG22	1.93	0.50
1:E:92:GLN:HB2	1:E:95:ARG:HB2	1.94	0.50
1:F:322:ILE:HD12	1:F:431:GLU:OE2	2.12	0.50
1:G:91:LEU:HB2	1:G:192:ASN:OD1	2.12	0.50
1:G:341:LEU:O	1:G:341:LEU:HD12	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:208:PHE:HD1	1:M:214:TRP:CD1	1.69	0.50
2:N:253:TYR:N	2:N:254:PRO:CD	2.73	0.50
2:N:269:SER:OG	2:N:296:LEU:HD23	2.11	0.50
1:A:359:LEU:HD21	1:A:419:LEU:HD11	1.93	0.50
1:A:441:LEU:HD23	1:A:442:GLN:H	1.76	0.50
1:B:235:ASN:ND2	1:B:237:ASN:H	2.09	0.50
1:B:295:ARG:CG	1:B:295:ARG:HH11	2.23	0.50
1:B:314:SER:OG	1:B:315:ASN:O	2.30	0.50
1:C:329:PHE:HB3	1:C:416:ILE:CG1	2.39	0.50
1:D:100:ALA:HB2	1:D:182:ARG:CD	2.41	0.50
1:E:358:ASN:OD1	1:E:358:ASN:C	2.49	0.50
1:G:252:SER:CB	1:G:253:GLY:HA2	2.32	0.50
1:G:313:LYS:H	1:G:444:GLN:HA	1.76	0.50
1:G:381:VAL:O	1:G:381:VAL:CG2	2.57	0.50
1:H:164:ASN:N	1:H:164:ASN:ND2	2.58	0.50
1:H:376:LEU:HD13	1:H:417:VAL:HG21	1.93	0.50
1:H:43:THR:HG21	1:H:53:ILE:HG23	1.94	0.50
1:I:172:THR:O	1:I:173:SER:HB2	2.11	0.50
1:I:490:LEU:CD2	1:I:490:LEU:O	2.53	0.50
1:J:246:ASP:OD1	1:J:249:ASN:HB3	2.11	0.50
1:K:41:PRO:CB	1:K:266:GLN:HE21	2.25	0.50
1:L:101:PHE:HZ	1:L:131:SER:HB2	1.76	0.50
1:L:358:ASN:OD1	1:L:359:LEU:N	2.44	0.50
1:M:4:SER:O	1:M:6:ILE:O	2.30	0.50
2:N:263:LYS:HA	2:N:263:LYS:HE2	1.94	0.50
2:N:270:ASN:O	2:N:271:LEU:CD2	2.59	0.50
1:A:315:ASN:ND2	1:A:315:ASN:H	2.07	0.50
1:B:99:ARG:HG3	1:B:100:ALA:N	2.27	0.50
1:B:165:ASN:OD1	1:B:165:ASN:O	2.30	0.50
1:B:155:GLN:CG	1:B:412:LEU:O	2.59	0.50
1:B:3:ASN:OD1	1:C:483:VAL:C	2.49	0.50
1:D:380:SER:CB	1:D:383:ASN:CG	2.80	0.50
1:F:503:LEU:O	1:F:506:ILE:HG23	2.12	0.50
1:G:108:ASN:O	1:G:108:ASN:OD1	2.30	0.50
1:G:337:ILE:CG1	1:G:337:ILE:O	2.57	0.50
1:G:452:GLN:NE2	1:G:452:GLN:HA	2.25	0.50
1:H:142:GLY:O	1:H:143:TRP:C	2.48	0.50
1:J:393:ASN:CB	1:J:394:GLY:HA2	2.23	0.50
1:K:376:LEU:HD23	1:K:379:PHE:CZ	2.47	0.50
1:L:444:GLN:O	1:L:444:GLN:HG3	2.11	0.50
1:G:39:PRO:CD	1:L:49:GLN:HE21	2.18	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:251:GLN:O	2:N:251:GLN:HG2	2.11	0.50
1:A:224:ASN:ND2	1:A:224:ASN:N	2.59	0.50
1:B:203:LEU:N	1:B:203:LEU:CD2	2.57	0.50
1:B:380:SER:OG	1:B:383:ASN:CA	2.60	0.50
1:C:125:GLN:N	1:C:125:GLN:HE21	2.09	0.50
1:C:457:THR:O	1:C:457:THR:OG1	2.30	0.50
1:D:244:HIS:CB	1:D:346:THR:HG22	2.38	0.50
1:D:362:ASN:O	1:D:362:ASN:OD1	2.30	0.50
1:D:83:HIS:CE1	1:D:256:THR:HA	2.46	0.50
1:F:187:MET:O	1:G:397:GLN:CG	2.55	0.50
1:G:109:THR:CG2	1:G:110:LEU:H	2.25	0.50
1:G:198:ARG:HG2	1:G:198:ARG:NH1	2.18	0.50
1:G:408:LYS:H	1:G:408:LYS:HZ1	1.57	0.50
1:G:75:ILE:HG13	1:G:262:ILE:HG23	1.93	0.50
1:H:416:ILE:CG1	1:H:416:ILE:O	2.60	0.50
1:J:67:VAL:HG22	1:J:271:LEU:HB3	1.94	0.50
1:J:86:ILE:HG23	1:J:86:ILE:O	2.11	0.50
1:K:172:THR:O	1:K:173:SER:OG	2.30	0.50
1:K:303:THR:HG22	1:K:457:THR:HB	1.92	0.50
1:K:392:PHE:CD1	1:K:393:ASN:N	2.79	0.50
1:L:1:MET:H1	1:L:10:VAL:CG1	2.24	0.50
1:A:474:ASN:OD1	1:A:474:ASN:O	2.30	0.50
1:B:209:LEU:HG	1:B:210:PRO:N	2.26	0.50
1:B:367:ILE:O	1:B:368:LEU:HB2	2.12	0.50
1:B:449:ASN:HD22	1:B:450:THR:H	1.59	0.50
1:B:56:PRO:HD2	1:B:226:THR:O	2.12	0.50
1:C:393:ASN:CG	1:C:393:ASN:O	2.50	0.50
1:C:3:ASN:HB3	1:D:483:VAL:HA	1.93	0.50
1:D:208:PHE:HD1	1:D:214:TRP:CE3	2.30	0.50
1:D:400:ASN:OD1	1:D:400:ASN:O	2.30	0.50
1:D:4:SER:O	1:D:6:ILE:O	2.30	0.50
1:E:372:SER:HB3	1:E:375:ASN:H	1.76	0.50
1:E:67:VAL:HG12	1:E:68:PHE:N	2.26	0.50
1:E:92:GLN:HB3	1:E:93:PRO:HD2	1.93	0.50
1:F:494:ILE:HA	1:G:12:ALA:O	2.12	0.50
1:F:73:TYR:CD2	1:F:73:TYR:C	2.83	0.50
1:G:161:ASP:OD1	1:G:161:ASP:O	2.30	0.50
1:G:244:HIS:CB	1:G:345:ILE:HG13	2.42	0.50
1:G:313:LYS:N	1:G:444:GLN:HG2	2.27	0.50
1:G:339:GLN:O	1:G:340:ASN:OD1	2.30	0.50
1:G:374:GLN:HG3	1:G:375:ASN:N	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:174:ALA:O	1:I:165:ASN:HB3	2.11	0.50
1:H:70:GLN:HB2	1:H:204:TYR:CD1	2.47	0.50
1:H:443:VAL:CG1	1:H:462:ILE:HD11	2.42	0.50
1:J:329:PHE:CE2	1:J:461:TYR:CD2	3.00	0.50
1:J:498:VAL:CG2	1:J:499:SER:CB	2.30	0.50
1:K:428:ARG:HG2	1:K:428:ARG:NH1	2.25	0.50
1:M:209:LEU:O	1:M:211:PRO:O	2.30	0.50
1:M:313:LYS:HE2	1:M:442:GLN:NE2	2.26	0.50
1:A:115:ASN:O	1:A:115:ASN:OD1	2.30	0.50
1:C:69:ILE:HG21	1:C:232:TRP:CZ2	2.46	0.50
1:C:311:THR:O	1:C:312:PHE:CD2	2.64	0.50
1:C:449:ASN:ND2	1:C:449:ASN:C	2.65	0.50
1:D:199:ILE:HD12	1:D:200:THR:N	2.27	0.50
1:D:61:THR:HA	1:D:275:THR:HG22	1.93	0.50
1:E:158:ARG:HG2	1:E:158:ARG:NH1	2.24	0.50
1:E:323:PRO:CD	1:E:421:LEU:HD22	2.37	0.50
1:H:494:ILE:HD12	1:H:494:ILE:N	2.27	0.50
1:I:314:SER:OG	1:I:443:VAL:O	2.26	0.50
1:J:500:TYR:CD1	1:J:500:TYR:C	2.84	0.50
1:J:89:ASN:HA	1:J:194:THR:HA	1.93	0.50
1:L:218:GLN:HE22	1:M:382:GLN:CD	2.12	0.50
1:L:249:ASN:O	1:L:250:ASP:OD1	2.30	0.50
1:L:4:SER:O	1:L:6:ILE:O	2.30	0.50
2:N:169:SER:O	2:N:170:ASN:OD1	2.30	0.50
2:N:20:ILE:HG23	2:N:36:PHE:CD1	2.44	0.50
2:N:60:ILE:HD12	2:N:313:ILE:CG2	2.42	0.50
2:N:267:LEU:CD2	2:N:361:CYS:SG	3.00	0.50
1:A:402:VAL:HG12	1:A:403:SER:N	2.27	0.50
1:B:151:GLU:HA	1:B:151:GLU:OE2	2.12	0.50
1:B:363:ASN:CA	1:B:364:GLN:NE2	2.74	0.50
1:D:30:LYS:O	1:D:30:LYS:HG2	2.11	0.50
1:E:35:VAL:HG22	1:E:274:VAL:HG13	1.93	0.50
1:E:423:LYS:HE3	1:F:17:ARG:CD	2.34	0.50
1:F:503:LEU:CA	1:F:506:ILE:CG2	2.84	0.50
1:H:106:ILE:HD12	1:H:241:ILE:CD1	2.42	0.50
1:I:441:LEU:HD12	1:I:441:LEU:O	2.11	0.50
1:E:44:SER:HB3	1:J:317:VAL:CB	2.42	0.50
1:J:328:LEU:HD21	1:J:443:VAL:HG21	1.93	0.50
1:K:190:VAL:CG2	1:K:198:ARG:HB3	2.42	0.50
1:L:110:LEU:HB3	1:L:123:LEU:HD13	1.94	0.50
1:M:152:ASP:N	1:M:152:ASP:OD1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:282:ILE:HD12	1:M:283:PRO:HD2	1.93	0.50
1:B:245:SER:O	1:B:248:THR:HG23	2.11	0.50
1:B:481:ILE:HD12	1:B:481:ILE:C	2.33	0.50
1:C:125:GLN:NE2	1:C:125:GLN:H	2.08	0.50
1:C:102:PRO:HG2	1:C:203:LEU:HD12	1.93	0.50
1:C:73:TYR:HD1	1:C:203:LEU:HD23	1.74	0.50
1:D:351:PHE:HE2	1:D:416:ILE:HG21	1.75	0.50
1:D:153:ASN:O	1:D:412:LEU:O	2.29	0.50
1:E:13:VAL:HG12	1:E:14:GLN:H	1.76	0.50
1:E:18:LEU:HD12	1:E:18:LEU:O	2.12	0.50
1:E:287:THR:HB	1:E:471:VAL:HG23	1.93	0.50
1:G:209:LEU:CD2	1:G:212:PHE:HD2	2.21	0.50
1:I:96:ASP:OD2	1:I:96:ASP:O	2.30	0.50
1:J:2:SER:O	1:J:3:ASN:OD1	2.30	0.50
1:L:249:ASN:CB	1:L:254:ASN:O	2.55	0.50
1:L:301:GLN:HE21	1:L:301:GLN:CA	2.24	0.50
1:G:41:PRO:HG2	1:L:45:PHE:C	2.32	0.50
1:L:498:VAL:HG22	1:L:499:SER:N	2.26	0.50
1:L:499:SER:O	1:L:500:TYR:C	2.50	0.50
1:L:423:LYS:CG	1:M:15:GLU:OE1	2.60	0.50
1:M:286:ILE:HG13	1:M:287:THR:N	2.27	0.50
1:M:324:ARG:HG3	1:M:325:LYS:HD2	1.94	0.50
1:M:502:GLU:OE1	1:M:502:GLU:O	2.30	0.50
1:A:325:LYS:HB3	1:A:420:GLU:HG2	1.94	0.49
1:A:87:THR:O	1:A:88:GLU:OE2	2.30	0.49
1:B:396:THR:OG1	1:B:410:ILE:CD1	2.58	0.49
1:C:507:TYR:CD2	1:C:508:GLY:CA	2.95	0.49
1:E:87:THR:O	1:E:88:GLU:OE1	2.30	0.49
1:F:1:MET:HE3	1:G:26:TRP:HB3	1.91	0.49
1:G:2:SER:O	1:G:3:ASN:HB2	2.10	0.49
1:G:362:ASN:O	1:G:362:ASN:OD1	2.30	0.49
1:G:87:THR:OG1	1:G:88:GLU:OE2	2.30	0.49
1:H:192:ASN:ND2	1:H:192:ASN:C	2.65	0.49
1:H:349:ASP:O	1:H:350:VAL:CG2	2.56	0.49
1:I:100:ALA:HB2	1:I:182:ARG:CD	2.39	0.49
1:I:194:THR:HG23	1:I:195:THR:HG23	1.93	0.49
1:I:255:SER:HB3	1:I:342:ASN:HB2	1.94	0.49
1:I:362:ASN:O	1:I:363:ASN:OD1	2.30	0.49
1:I:78:THR:HG23	1:I:259:SER:O	2.11	0.49
1:J:20:LEU:O	1:J:24:ARG:NH1	2.45	0.49
1:L:188:ASN:OD1	1:L:188:ASN:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:184:ASP:OD1	2:N:226:ARG:CA	2.60	0.49
1:A:100:ALA:HB2	1:A:182:ARG:CD	2.42	0.49
1:A:192:ASN:ND2	1:A:192:ASN:C	2.64	0.49
1:C:313:LYS:HZ1	1:C:314:SER:N	2.06	0.49
1:C:420:GLU:HB2	1:C:423:LYS:HB3	1.94	0.49
1:D:80:ASN:CB	1:D:258:GLY:CA	2.90	0.49
1:D:30:LYS:CG	1:D:30:LYS:O	2.60	0.49
1:D:363:ASN:O	1:D:364:GLN:OE1	2.30	0.49
1:D:436:ILE:CG1	1:D:437:GLY:CA	2.74	0.49
1:D:95:ARG:HH11	1:D:95:ARG:CG	2.25	0.49
1:F:85:GLY:HA2	1:F:86:ILE:CG2	2.42	0.49
1:G:108:ASN:HB2	1:G:235:ASN:CG	2.33	0.49
1:G:9:ASN:ND2	1:G:10:VAL:H	1.96	0.49
1:G:128:HIS:HB3	1:G:349:ASP:OD1	2.11	0.49
1:H:238:LEU:CG	1:H:238:LEU:O	2.60	0.49
1:H:106:ILE:CD1	1:H:241:ILE:CG1	2.89	0.49
1:H:397:GLN:CG	1:H:398:GLN:N	2.76	0.49
1:H:428:ARG:O	1:H:431:GLU:OE1	2.30	0.49
1:I:83:HIS:HE1	1:I:250:ASP:HB2	1.76	0.49
1:I:326:LEU:HD12	1:I:421:LEU:CD2	2.41	0.49
1:J:314:SER:O	1:J:315:ASN:CB	2.59	0.49
1:J:322:ILE:HD13	1:J:431:GLU:HG3	1.93	0.49
1:J:325:LYS:HG2	1:J:465:VAL:HG13	1.94	0.49
1:L:393:ASN:O	1:L:393:ASN:ND2	2.46	0.49
1:M:332:GLN:OE1	1:M:333:SER:O	2.30	0.49
2:N:225:VAL:HG22	2:N:247:ILE:CD1	2.42	0.49
2:N:232:TYR:HD1	2:N:244:PRO:HB2	1.75	0.49
1:C:117:PHE:HB3	1:C:477:ALA:HB3	1.94	0.49
1:C:92:GLN:HB3	1:C:93:PRO:HD2	1.92	0.49
1:D:1:MET:HG3	1:D:10:VAL:HB	1.94	0.49
1:D:343:ASN:C	1:D:347:THR:HG22	2.16	0.49
1:D:361:TRP:CZ3	1:D:427:LEU:HD11	2.47	0.49
1:E:342:ASN:O	1:E:346:THR:HG22	2.12	0.49
1:F:380:SER:HB2	1:F:383:ASN:ND2	2.27	0.49
1:G:172:THR:O	1:G:173:SER:OG	2.30	0.49
1:G:92:GLN:HB3	1:G:93:PRO:HD2	1.94	0.49
1:I:85:GLY:HA3	1:I:86:ILE:CG2	2.29	0.49
1:K:286:ILE:HD12	1:M:20:LEU:HD12	1.94	0.49
1:L:172:THR:O	1:L:173:SER:OG	2.30	0.49
1:L:230:PHE:C	1:L:231:ASN:ND2	2.65	0.49
1:L:58:SER:HB3	1:L:59:ALA:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:315:ASN:OD1	1:M:316:VAL:O	2.30	0.49
2:N:227:PHE:HD2	2:N:229:GLY:C	2.16	0.49
1:A:87:THR:OG1	1:A:87:THR:O	2.30	0.49
1:B:462:ILE:N	1:B:462:ILE:CD1	2.76	0.49
1:D:324:ARG:HG3	1:D:325:LYS:HG2	1.94	0.49
1:D:351:PHE:CD2	1:D:416:ILE:CG2	2.96	0.49
1:D:433:GLU:OE2	1:D:433:GLU:HA	2.12	0.49
1:E:227:SER:O	1:E:228:LEU:HG	2.13	0.49
1:H:107:THR:HG22	1:H:123:LEU:HB3	1.93	0.49
1:H:210:PRO:HG2	1:H:291:PHE:O	2.12	0.49
1:I:363:ASN:O	1:I:364:GLN:OE1	2.30	0.49
1:K:153:ASN:H	1:K:153:ASN:HD22	1.61	0.49
1:K:99:ARG:HH21	1:K:240:ARG:HE	1.60	0.49
1:L:45:PHE:HE2	1:L:266:GLN:HB3	1.76	0.49
1:L:304:LEU:HD23	1:L:304:LEU:H	1.76	0.49
1:L:59:ALA:O	1:L:60:GLN:CB	2.60	0.49
1:M:235:ASN:O	1:M:238:LEU:HD22	2.13	0.49
1:A:401:GLY:C	1:A:402:VAL:CG2	2.80	0.49
1:A:295:ARG:HB2	1:A:463:VAL:HG22	1.93	0.49
1:B:21:ASN:N	1:B:21:ASN:ND2	2.53	0.49
1:B:249:ASN:C	1:B:249:ASN:HD22	2.14	0.49
1:B:337:ILE:CD1	1:B:338:TYR:CG	2.93	0.49
1:B:459:ASP:OD2	1:B:459:ASP:O	2.30	0.49
1:B:490:LEU:HD22	1:B:491:ASN:N	2.27	0.49
1:E:33:GLN:OE1	1:E:33:GLN:N	2.43	0.49
1:E:75:ILE:HG22	1:E:76:THR:N	2.28	0.49
1:E:99:ARG:NH1	1:E:99:ARG:CG	2.59	0.49
1:G:4:SER:O	1:G:6:ILE:O	2.30	0.49
1:G:71:VAL:O	1:G:71:VAL:HG23	2.13	0.49
1:H:440:ASN:O	1:H:440:ASN:OD1	2.30	0.49
1:J:140:LYS:CD	1:J:179:GLU:OE2	2.61	0.49
1:K:232:TRP:CD1	1:K:232:TRP:N	2.80	0.49
1:K:334:ASP:HA	1:K:337:ILE:HD12	1.95	0.49
1:L:173:SER:HA	1:M:164:ASN:HB2	1.95	0.49
1:L:334:ASP:O	1:L:334:ASP:OD2	2.30	0.49
1:M:341:LEU:CD1	1:M:345:ILE:CG2	2.90	0.49
1:A:364:GLN:HE21	1:A:367:ILE:CD1	2.25	0.49
1:A:367:ILE:O	1:A:369:SER:N	2.46	0.49
1:B:242:TRP:HD1	1:B:345:ILE:HD11	1.78	0.49
1:C:163:ALA:CB	1:D:172:THR:HB	2.42	0.49
1:C:73:TYR:HE2	1:C:199:ILE:HD11	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:326:LEU:HD23	1:C:328:LEU:HD21	1.93	0.49
1:C:377:TYR:CD1	1:C:389:TRP:HB2	2.47	0.49
1:C:400:ASN:N	1:C:407:THR:OG1	2.41	0.49
1:E:357:LEU:HA	1:E:445:MET:HB2	1.94	0.49
1:F:33:GLN:OE1	1:F:33:GLN:CA	2.60	0.49
1:G:375:ASN:OD1	1:G:375:ASN:O	2.30	0.49
1:H:79:ALA:HB2	1:H:195:THR:HA	1.95	0.49
1:I:18:LEU:HD21	1:J:276:PRO:HB3	1.95	0.49
1:E:118:PRO:HG2	1:J:118:PRO:HG2	1.94	0.49
1:J:262:ILE:HD12	1:J:262:ILE:N	2.28	0.49
1:J:395:VAL:HG13	1:J:450:THR:HG22	1.95	0.49
1:K:165:ASN:H	1:K:165:ASN:HD22	1.61	0.49
1:K:86:ILE:O	1:K:86:ILE:HG23	2.12	0.49
1:L:71:VAL:HB	1:L:267:PRO:HB3	1.95	0.49
1:K:187:MET:H	1:L:397:GLN:HG3	1.77	0.49
1:M:359:LEU:HB2	1:M:443:VAL:HG22	1.95	0.49
2:N:52:PHE:CE2	2:N:368:LYS:HE2	2.47	0.49
1:B:209:LEU:HG	1:B:210:PRO:CD	2.43	0.49
1:B:114:ILE:HA	1:B:228:LEU:HD23	1.95	0.49
1:B:70:GLN:O	1:B:70:GLN:HG2	2.12	0.49
1:B:374:GLN:HG2	1:C:204:TYR:CE1	2.47	0.49
1:C:22:ASN:N	1:C:22:ASN:HD22	2.11	0.49
1:C:155:GLN:HA	1:C:350:VAL:HG11	1.94	0.49
1:C:379:PHE:HD2	1:C:379:PHE:H	1.60	0.49
1:D:357:LEU:C	1:D:357:LEU:CD1	2.30	0.49
1:D:449:ASN:HD22	1:D:450:THR:H	1.60	0.49
1:E:355:ASN:O	1:E:373:SER:HB3	2.13	0.49
1:E:364:GLN:HB2	1:E:367:ILE:HD11	1.95	0.49
1:H:48:ASN:HD22	1:H:48:ASN:C	2.16	0.49
1:K:35:VAL:HG21	1:M:17:ARG:NH2	2.21	0.49
1:L:324:ARG:CG	1:L:324:ARG:NH1	2.69	0.49
1:L:357:LEU:HD13	1:L:357:LEU:C	2.16	0.49
1:M:333:SER:O	1:M:336:VAL:HG12	2.12	0.49
1:B:363:ASN:O	1:B:364:GLN:OE1	2.30	0.49
1:B:385:TYR:O	1:B:386:ASN:OD1	2.30	0.49
1:C:249:ASN:ND2	1:C:249:ASN:O	2.46	0.49
1:C:354:ILE:CD1	1:C:417:VAL:HG23	2.42	0.49
1:C:364:GLN:HG2	1:C:367:ILE:CD1	2.38	0.49
1:C:83:HIS:NE2	1:C:256:THR:HG23	2.27	0.49
1:D:392:PHE:HD1	1:D:393:ASN:H	1.58	0.49
1:E:303:THR:CG2	1:E:457:THR:N	2.73	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:73:TYR:CD1	1:E:73:TYR:N	2.79	0.49
1:F:170:VAL:O	1:F:172:THR:O	2.31	0.49
1:F:33:GLN:OE1	1:F:33:GLN:O	2.30	0.49
1:F:364:GLN:OE1	1:F:364:GLN:O	2.30	0.49
1:F:62:VAL:HB	1:F:223:ALA:HB2	1.95	0.49
1:G:325:LYS:HE3	1:G:327:TYR:OH	2.13	0.49
1:G:364:GLN:HA	1:G:364:GLN:OE1	2.12	0.49
1:H:8:LEU:CD2	1:H:8:LEU:N	2.66	0.49
1:I:55:ASN:N	1:I:55:ASN:OD1	2.46	0.49
1:J:2:SER:O	1:J:3:ASN:HB3	2.11	0.49
1:J:501:ASN:OD1	1:J:504:GLN:NE2	2.45	0.49
1:K:377:TYR:CZ	1:K:389:TRP:HB2	2.48	0.49
1:K:437:GLY:N	1:K:439:PHE:HE2	2.10	0.49
1:M:155:GLN:HB3	1:M:451:ASN:HB2	1.95	0.49
1:M:332:GLN:C	1:M:332:GLN:OE1	2.51	0.49
1:B:100:ALA:HB2	1:B:148:PRO:HB2	1.94	0.49
1:B:416:ILE:HG12	1:B:416:ILE:O	2.10	0.49
1:B:1:MET:N	1:B:7:PRO:HB2	2.15	0.49
1:C:359:LEU:HD13	1:C:443:VAL:HG22	1.95	0.49
1:C:459:ASP:OD2	1:C:460:MET:O	2.30	0.49
1:C:488:GLU:OE1	1:C:488:GLU:O	2.30	0.49
1:D:140:LYS:CG	1:D:179:GLU:HG2	2.42	0.49
1:D:19:GLU:N	1:D:20:LEU:HA	2.25	0.49
1:F:121:ILE:HD13	1:F:210:PRO:HG3	1.95	0.49
1:G:285:ARG:CB	1:G:473:SER:HB2	2.42	0.49
1:G:4:SER:OG	1:G:4:SER:O	2.30	0.49
1:H:41:PRO:CB	1:H:266:GLN:NE2	2.76	0.49
1:H:313:LYS:CD	1:H:444:GLN:CG	2.91	0.49
1:H:354:ILE:HD12	1:H:417:VAL:HG23	1.95	0.49
1:J:33:GLN:OE1	1:J:33:GLN:N	2.46	0.49
1:L:106:ILE:HD11	1:L:238:LEU:HA	1.94	0.49
1:M:318:GLN:H	1:M:318:GLN:NE2	2.11	0.49
2:N:185:ARG:CB	2:N:224:ASP:OD1	2.60	0.49
2:N:265:ILE:HG12	2:N:340:TYR:O	2.13	0.49
1:A:39:PRO:HB3	1:A:270:TYR:CE1	2.48	0.49
1:B:2:SER:O	1:B:3:ASN:OD1	2.30	0.49
1:B:313:LYS:NZ	1:B:444:GLN:CD	2.65	0.49
1:B:81:PRO:HA	1:B:82:SER:HA	1.52	0.49
1:C:122:GLU:HG3	1:C:123:LEU:N	2.23	0.49
1:D:340:ASN:O	1:D:340:ASN:OD1	2.30	0.49
1:D:322:ILE:CG2	1:D:433:GLU:OE2	2.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:433:GLU:O	1:E:433:GLU:OE2	2.30	0.49
1:F:127:ILE:HG22	1:F:128:HIS:ND1	2.27	0.49
1:F:419:LEU:HD12	1:F:425:VAL:CG2	2.42	0.49
1:I:193:THR:O	1:I:196:THR:O	2.30	0.49
1:I:459:ASP:OD2	1:I:461:TYR:CE2	2.65	0.49
1:J:251:VAL:HG23	1:J:252:SER:N	2.27	0.49
1:J:83:HIS:CE1	1:J:256:THR:HG22	2.47	0.49
1:K:153:ASN:N	1:K:153:ASN:ND2	2.59	0.49
1:K:430:ASP:O	1:K:430:ASP:OD2	2.30	0.49
1:L:229:THR:C	1:L:230:PHE:HD2	2.15	0.49
1:M:435:VAL:HB	1:M:486:LYS:HE3	1.95	0.49
2:N:132:TYR:H	2:N:132:TYR:HD2	1.61	0.49
1:A:108:ASN:C	1:A:109:THR:HG22	2.33	0.48
1:B:33:GLN:O	1:B:33:GLN:OE1	2.30	0.48
1:B:379:PHE:CG	1:B:379:PHE:O	2.65	0.48
1:B:73:TYR:HE2	1:B:200:THR:HA	1.77	0.48
1:C:117:PHE:HB3	1:C:477:ALA:CB	2.43	0.48
1:C:412:LEU:HD21	1:D:171:PHE:CE2	2.48	0.48
1:D:242:TRP:HA	1:D:242:TRP:CE3	2.48	0.48
1:D:317:VAL:O	1:D:440:ASN:HB2	2.13	0.48
1:E:1:MET:SD	1:F:26:TRP:HD1	2.36	0.48
1:E:244:HIS:HB2	1:E:345:ILE:CD1	2.43	0.48
1:E:73:TYR:HD1	1:E:73:TYR:N	2.10	0.48
1:F:362:ASN:HD22	1:F:439:PHE:HB3	1.78	0.48
1:G:73:TYR:HD2	1:G:75:ILE:HD11	1.73	0.48
1:H:342:ASN:H	1:H:342:ASN:ND2	2.06	0.48
1:I:195:THR:OG1	1:I:196:THR:HG22	2.13	0.48
1:I:265:GLN:O	1:I:266:GLN:C	2.51	0.48
1:J:306:PRO:O	1:J:307:ASN:HB2	2.13	0.48
1:J:350:VAL:C	1:J:351:PHE:HD1	2.15	0.48
1:K:106:ILE:O	1:K:235:ASN:HB3	2.12	0.48
1:L:125:GLN:OE1	1:L:295:ARG:CZ	2.60	0.48
1:L:89:ASN:HB3	1:L:192:ASN:ND2	2.02	0.48
1:M:102:PRO:CB	1:M:241:ILE:HD12	2.29	0.48
1:M:39:PRO:HB3	1:M:270:TYR:CZ	2.48	0.48
1:C:391:GLU:O	1:C:394:GLY:N	2.47	0.48
1:C:89:ASN:ND2	1:C:193:THR:CA	2.72	0.48
1:D:172:THR:O	1:D:173:SER:HB2	2.13	0.48
1:E:140:LYS:CD	1:E:179:GLU:CD	2.80	0.48
1:E:279:ASN:ND2	1:E:280:ILE:H	2.11	0.48
1:E:362:ASN:ND2	1:E:362:ASN:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:449:ASN:C	1:E:449:ASN:ND2	2.66	0.48
1:J:134:HIS:HD2	1:J:507:TYR:CD1	2.29	0.48
1:J:18:LEU:O	1:J:19:GLU:OE1	2.30	0.48
1:J:224:ASN:ND2	1:J:224:ASN:N	2.60	0.48
1:H:399:PHE:HD2	1:J:91:LEU:HB3	1.77	0.48
1:K:497:GLY:O	1:K:498:VAL:C	2.51	0.48
1:L:372:SER:O	1:L:375:ASN:N	2.45	0.48
1:M:471:VAL:HG12	1:M:471:VAL:O	2.12	0.48
1:B:96:ASP:CG	1:B:244:HIS:HA	2.33	0.48
1:C:1:MET:SD	1:C:10:VAL:HB	2.53	0.48
1:C:217:GLU:O	1:C:217:GLU:OE1	2.30	0.48
1:C:374:GLN:CD	1:C:374:GLN:O	2.52	0.48
1:D:452:GLN:NE2	1:D:452:GLN:HA	2.27	0.48
1:E:190:VAL:HG23	1:E:198:ARG:O	2.12	0.48
1:E:320:ASP:O	1:E:321:SER:OG	2.29	0.48
1:G:41:PRO:HA	1:G:268:SER:HB3	1.95	0.48
1:H:344:GLN:HG2	1:H:344:GLN:H	1.34	0.48
1:H:407:THR:HG21	1:J:189:VAL:CG1	2.36	0.48
1:I:207:VAL:HG22	1:I:232:TRP:CZ2	2.48	0.48
1:L:190:VAL:HG13	1:L:198:ARG:HB3	1.93	0.48
1:B:73:TYR:CE2	1:B:200:THR:HA	2.49	0.48
1:B:6:ILE:CD1	1:C:285:ARG:HD3	2.34	0.48
1:C:157:TYR:HE2	1:C:346:THR:O	1.97	0.48
1:D:19:GLU:N	1:D:19:GLU:CD	2.66	0.48
1:E:393:ASN:O	1:E:393:ASN:CG	2.52	0.48
1:E:460:MET:HG3	1:E:461:TYR:N	2.27	0.48
1:I:13:VAL:HG12	1:J:29:VAL:HG22	1.95	0.48
1:I:165:ASN:HD22	1:I:165:ASN:H	1.61	0.48
1:I:345:ILE:HG22	1:I:346:THR:HG23	1.95	0.48
1:J:110:LEU:CD1	1:J:207:VAL:HG22	2.44	0.48
1:J:359:LEU:HB2	1:J:443:VAL:HG22	1.93	0.48
1:J:288:TYR:HE2	1:J:472:ILE:HG22	1.77	0.48
1:J:52:PHE:CD2	1:J:52:PHE:N	2.81	0.48
1:K:397:GLN:H	1:K:397:GLN:NE2	2.11	0.48
1:L:328:LEU:HD23	1:L:443:VAL:HG21	1.93	0.48
1:L:346:THR:O	1:L:346:THR:OG1	2.19	0.48
1:D:231:ASN:OD1	2:N:270:ASN:ND2	2.45	0.48
2:N:60:ILE:HD13	2:N:265:ILE:HD12	1.94	0.48
1:A:364:GLN:O	1:A:365:GLN:CB	2.60	0.48
1:A:129:ALA:HB1	1:A:416:ILE:HD12	1.96	0.48
1:C:1:MET:C	1:C:3:ASN:N	2.65	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:42:SER:HB3	1:D:267:PRO:O	2.13	0.48
1:E:474:ASN:C	1:E:474:ASN:OD1	2.52	0.48
1:F:237:ASN:ND2	1:F:238:LEU:N	2.62	0.48
1:G:158:ARG:HD3	1:G:247:ILE:CD1	2.43	0.48
1:G:349:ASP:O	1:G:349:ASP:OD2	2.30	0.48
1:G:374:GLN:NE2	1:G:375:ASN:CA	2.70	0.48
1:G:399:PHE:N	1:G:399:PHE:CD2	2.77	0.48
1:G:490:LEU:HD22	1:G:491:ASN:OD1	2.13	0.48
1:G:85:GLY:HA2	1:G:86:ILE:CG2	2.32	0.48
1:H:51:ASN:HB3	1:H:231:ASN:OD1	2.14	0.48
1:H:427:LEU:CB	1:H:431:GLU:HG3	2.27	0.48
1:I:231:ASN:N	1:I:231:ASN:ND2	2.60	0.48
1:I:34:GLN:HB2	1:I:275:THR:HG23	1.95	0.48
1:I:379:PHE:CZ	1:I:419:LEU:HD22	2.49	0.48
1:I:2:SER:O	1:I:3:ASN:CB	2.61	0.48
1:I:506:ILE:HG23	1:I:507:TYR:N	2.29	0.48
1:J:187:MET:N	1:J:187:MET:SD	2.87	0.48
1:J:18:LEU:O	1:J:19:GLU:CG	2.62	0.48
1:J:433:GLU:OE2	1:J:433:GLU:N	2.46	0.48
1:J:325:LYS:HG2	1:J:465:VAL:CG1	2.43	0.48
1:K:209:LEU:HD12	1:K:210:PRO:N	2.29	0.48
1:K:247:ILE:HD13	1:K:248:THR:HA	1.91	0.48
1:L:339:GLN:O	1:L:339:GLN:OE1	2.30	0.48
2:N:182:TYR:O	2:N:182:TYR:CD2	2.67	0.48
2:N:231:ASN:CG	2:N:248:GLN:O	2.52	0.48
2:N:305:ASN:O	2:N:306:GLY:O	2.30	0.48
2:N:24:PHE:HE2	2:N:355:PRO:CA	2.23	0.48
1:B:249:ASN:HD22	1:B:250:ASP:N	2.11	0.48
1:B:33:GLN:O	1:B:34:GLN:HB2	2.13	0.48
1:C:158:ARG:HG2	1:C:158:ARG:HH11	1.79	0.48
1:C:16:PRO:HD3	1:D:500:TYR:CD1	2.49	0.48
1:F:380:SER:OG	1:F:383:ASN:N	2.43	0.48
1:H:140:LYS:HG2	1:H:179:GLU:HG2	1.96	0.48
1:H:427:LEU:HB3	1:H:431:GLU:CG	2.26	0.48
1:I:117:PHE:HD1	1:I:118:PRO:HD2	1.77	0.48
1:J:286:ILE:HA	1:J:286:ILE:HD13	1.66	0.48
1:J:359:LEU:HD21	1:J:419:LEU:HD11	1.96	0.48
1:K:410:ILE:HG22	1:K:411:GLY:O	2.13	0.48
1:L:83:HIS:CD2	1:L:86:ILE:HB	2.49	0.48
2:N:96:SER:N	2:N:154:ILE:HD11	2.28	0.48
2:N:45:VAL:H	2:N:332:ILE:HD12	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:80:VAL:HG13	2:N:131:TYR:OH	2.13	0.48
1:B:319:LEU:H	1:B:319:LEU:HD13	1.79	0.48
1:B:436:ILE:HG12	1:B:437:GLY:CA	2.42	0.48
1:C:492:ALA:O	1:C:493:ARG:C	2.49	0.48
1:D:228:LEU:O	1:D:229:THR:HG22	2.14	0.48
1:D:235:ASN:ND2	1:D:236:ASN:N	2.61	0.48
1:E:120:ASN:ND2	1:E:120:ASN:C	2.67	0.48
1:H:379:PHE:HD2	1:H:379:PHE:O	1.96	0.48
1:I:380:SER:OG	1:I:385:TYR:HB2	2.14	0.48
1:I:473:SER:O	1:I:475:THR:HA	2.14	0.48
1:I:9:ASN:HB2	1:J:25:THR:HG22	1.94	0.48
1:K:65:ARG:HD3	1:K:222:LEU:HD21	1.94	0.48
1:K:428:ARG:HB2	1:K:431:GLU:CD	2.34	0.48
1:K:495:THR:HG21	1:L:11:VAL:HB	1.91	0.48
1:L:334:ASP:O	1:L:337:ILE:HG13	2.13	0.48
1:A:327:TYR:N	1:A:327:TYR:HD2	2.12	0.48
1:B:99:ARG:HH12	1:B:243:SER:HB2	1.78	0.48
1:B:449:ASN:HD22	1:B:450:THR:N	2.12	0.48
1:C:123:LEU:CD2	1:C:127:ILE:HB	2.43	0.48
1:C:6:ILE:CG2	1:D:285:ARG:HD2	2.43	0.48
1:D:386:ASN:ND2	1:D:386:ASN:C	2.67	0.48
1:E:313:LYS:HG3	1:E:314:SER:H	1.77	0.48
1:F:237:ASN:O	1:F:239:ALA:N	2.45	0.48
1:F:2:SER:O	1:F:3:ASN:CG	2.52	0.48
1:F:180:LEU:CD2	1:G:388:THR:HG21	2.34	0.48
1:I:161:ASP:HA	1:I:162:GLY:HA2	1.52	0.48
1:I:356:ASN:O	1:I:446:THR:HG23	2.14	0.48
1:J:136:PRO:C	1:J:138:LYS:N	2.67	0.48
1:K:153:ASN:ND2	1:K:154:TYR:HD1	2.11	0.48
1:K:190:VAL:HG23	1:K:191:THR:HG22	1.96	0.48
1:K:257:ILE:HD12	1:K:257:ILE:N	2.29	0.48
1:K:32:GLY:HA2	1:K:277:ARG:HB3	1.94	0.48
1:K:461:TYR:C	1:K:462:ILE:HG13	2.34	0.48
1:L:251:VAL:O	1:L:252:SER:OG	2.30	0.48
1:K:171:PHE:CZ	1:L:412:LEU:HD11	2.49	0.48
1:L:45:PHE:CD1	1:L:45:PHE:O	2.67	0.48
2:N:307:PRO:HA	2:N:309:ALA:N	2.29	0.48
2:N:321:TRP:HA	2:N:321:TRP:CE3	2.47	0.48
2:N:52:PHE:HB3	2:N:323:LEU:HD22	1.95	0.48
2:N:42:GLN:HG2	2:N:43:PRO:HD2	1.95	0.48
1:A:99:ARG:HH11	1:A:240:ARG:CZ	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:299:GLN:NE2	1:D:299:GLN:HA	2.28	0.48
1:D:386:ASN:HD22	1:D:386:ASN:C	2.17	0.48
1:E:226:THR:HG21	1:E:475:THR:HG23	1.95	0.48
1:E:4:SER:OG	1:E:4:SER:O	2.30	0.48
1:G:155:GLN:HG2	1:G:451:ASN:HB3	1.96	0.48
1:H:67:VAL:HG12	1:H:68:PHE:N	2.29	0.48
1:I:173:SER:O	1:J:164:ASN:OD1	2.32	0.48
1:J:169:GLY:H	1:J:181:PRO:HB2	1.78	0.48
1:K:303:THR:CG2	1:K:457:THR:HB	2.43	0.48
1:L:190:VAL:HG13	1:L:198:ARG:O	2.14	0.48
1:L:319:LEU:O	1:L:438:ASN:HA	2.14	0.48
1:L:43:THR:O	1:L:44:SER:OG	2.30	0.48
1:M:313:LYS:NZ	1:M:313:LYS:CB	2.30	0.48
1:M:365:GLN:HE21	1:M:365:GLN:CA	2.26	0.48
1:M:427:LEU:HD12	1:M:427:LEU:HA	1.69	0.48
2:N:53:LEU:HD22	2:N:53:LEU:C	2.34	0.48
1:A:73:TYR:CD1	1:A:73:TYR:N	2.82	0.48
1:A:78:THR:O	1:A:257:ILE:O	2.32	0.48
1:B:155:GLN:CB	1:B:411:GLY:HA3	2.43	0.48
1:B:228:LEU:C	1:B:229:THR:HG22	2.34	0.48
1:B:507:TYR:CG	1:B:508:GLY:HA3	2.48	0.48
1:D:161:ASP:HA	1:D:162:GLY:HA2	1.57	0.48
1:D:210:PRO:O	1:D:210:PRO:CD	2.61	0.48
1:B:17:ARG:CD	1:D:218:GLN:HE21	2.26	0.48
1:D:342:ASN:HA	1:D:345:ILE:HG21	1.95	0.48
1:G:213:LEU:HB2	1:G:214:TRP:CB	2.43	0.48
1:H:10:VAL:HG22	1:H:11:VAL:N	2.28	0.48
1:I:132:ARG:HH11	1:I:132:ARG:CG	2.12	0.48
1:J:399:PHE:N	1:J:399:PHE:CD2	2.80	0.48
1:J:435:VAL:HG21	1:J:486:LYS:NZ	2.28	0.48
1:K:106:ILE:HG12	1:K:238:LEU:HD13	1.95	0.48
1:K:459:ASP:OD2	1:K:460:MET:N	2.47	0.48
1:L:1:MET:N	1:L:10:VAL:CG1	2.74	0.48
1:A:122:GLU:CA	1:A:122:GLU:OE2	2.62	0.47
1:B:330:VAL:HG22	1:B:460:MET:HB3	1.97	0.47
1:C:483:VAL:CA	1:C:484:ALA:HB3	2.43	0.47
1:D:498:VAL:HG22	1:D:503:LEU:HD21	1.95	0.47
1:D:89:ASN:OD1	1:D:192:ASN:ND2	2.46	0.47
1:E:246:ASP:O	1:E:249:ASN:HB2	2.14	0.47
1:F:241:ILE:HD13	1:F:241:ILE:HA	1.68	0.47
1:F:429:ASP:O	1:F:430:ASP:CB	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:382:GLN:NE2	1:G:423:LYS:HE2	2.29	0.47
1:I:361:TRP:CG	1:I:362:ASN:N	2.82	0.47
1:J:108:ASN:HA	1:J:235:ASN:ND2	2.25	0.47
1:J:490:LEU:HG	1:J:491:ASN:N	2.29	0.47
1:K:104:SER:HB3	1:K:205:GLU:OE2	2.13	0.47
1:K:264:PHE:N	1:K:264:PHE:HD1	2.11	0.47
1:M:73:TYR:CD1	1:M:203:LEU:HD22	2.49	0.47
2:N:108:THR:O	2:N:109:SER:OG	2.30	0.47
1:B:164:ASN:C	1:B:164:ASN:OD1	2.52	0.47
1:B:301:GLN:CD	1:B:301:GLN:H	2.18	0.47
1:B:336:VAL:CG2	1:B:337:ILE:N	2.75	0.47
1:B:453:TYR:N	1:B:453:TYR:CD1	2.81	0.47
1:C:140:LYS:HG2	1:C:179:GLU:OE1	2.12	0.47
1:D:103:ILE:HB	1:D:205:GLU:HG3	1.96	0.47
1:E:180:LEU:HD21	1:F:388:THR:HG21	1.95	0.47
1:E:278:LEU:CD1	1:E:278:LEU:H	2.11	0.47
1:F:147:GLN:HE21	1:F:206:GLN:HB2	1.77	0.47
1:E:186:THR:HB	1:F:396:THR:HA	1.95	0.47
1:G:22:ASN:C	1:G:22:ASN:HD22	2.17	0.47
1:G:317:VAL:CG2	1:G:319:LEU:HD11	2.44	0.47
1:G:341:LEU:C	1:G:341:LEU:HD12	2.35	0.47
1:H:106:ILE:HG22	1:H:107:THR:N	2.28	0.47
1:H:263:SER:C	1:H:264:PHE:HD1	2.17	0.47
1:I:264:PHE:HA	1:I:265:GLN:HE22	1.79	0.47
1:I:81:PRO:HA	1:I:82:SER:HA	1.59	0.47
1:L:140:LYS:CG	1:L:179:GLU:OE2	2.59	0.47
1:L:342:ASN:O	1:L:346:THR:HG22	2.14	0.47
1:L:430:ASP:HB2	1:L:490:LEU:HG	1.95	0.47
1:M:334:ASP:O	1:M:337:ILE:N	2.47	0.47
1:M:416:ILE:HG13	1:M:416:ILE:O	2.12	0.47
1:M:313:LYS:HD2	1:M:444:GLN:HB2	1.96	0.47
2:N:171:THR:CB	2:N:172:GLU:CA	2.91	0.47
2:N:256:LEU:HD13	2:N:307:PRO:CD	2.45	0.47
2:N:56:VAL:HG12	2:N:317:ALA:HB3	1.95	0.47
1:A:361:TRP:HE3	1:A:361:TRP:HA	1.74	0.47
1:C:89:ASN:CB	1:C:192:ASN:ND2	2.77	0.47
1:B:89:ASN:CG	1:D:402:VAL:N	2.65	0.47
1:C:1:MET:H1	1:D:484:ALA:HA	1.79	0.47
1:E:322:ILE:CD1	1:E:322:ILE:H	2.20	0.47
1:F:365:GLN:N	1:F:366:GLY:HA3	2.28	0.47
1:G:382:GLN:CG	1:G:382:GLN:O	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:362:ASN:ND2	1:J:362:ASN:C	2.67	0.47
1:K:86:ILE:CD1	1:K:86:ILE:C	2.78	0.47
1:M:429:ASP:OD2	1:M:430:ASP:HB3	2.13	0.47
2:N:80:VAL:HG21	2:N:115:PRO:O	2.15	0.47
2:N:227:PHE:HD2	2:N:229:GLY:CA	2.27	0.47
1:A:143:TRP:CE3	1:A:216:GLY:HA2	2.50	0.47
1:A:441:LEU:HD23	1:A:442:GLN:N	2.30	0.47
1:B:187:MET:O	1:B:188:ASN:C	2.51	0.47
1:B:209:LEU:CD2	1:B:210:PRO:C	2.83	0.47
1:B:21:ASN:C	1:B:22:ASN:HD22	2.17	0.47
1:C:189:VAL:HG13	1:C:199:ILE:HG22	1.95	0.47
1:C:212:PHE:CD2	1:C:212:PHE:N	2.76	0.47
1:D:49:GLN:HB2	1:D:232:TRP:O	2.14	0.47
1:D:75:ILE:HD11	1:D:262:ILE:HG23	1.96	0.47
1:E:96:ASP:OD2	1:E:243:SER:C	2.53	0.47
1:E:423:LYS:HE2	1:E:423:LYS:C	2.34	0.47
1:E:74:ASP:CG	1:E:75:ILE:N	2.65	0.47
1:F:1:MET:HG3	1:F:10:VAL:CB	2.45	0.47
1:H:466:TYR:CD2	1:H:466:TYR:N	2.83	0.47
1:J:133:TYR:HE2	1:J:416:ILE:HG12	1.77	0.47
1:J:65:ARG:NH1	1:J:213:LEU:HD23	2.28	0.47
1:J:394:GLY:C	1:J:395:VAL:CG2	2.83	0.47
1:J:39:PRO:HB3	1:J:270:TYR:CE1	2.48	0.47
1:K:23:GLU:HA	1:K:23:GLU:OE2	2.13	0.47
1:K:27:VAL:O	1:K:27:VAL:HG13	2.14	0.47
1:M:140:LYS:CD	1:M:179:GLU:CG	2.73	0.47
1:M:208:PHE:HB3	1:M:214:TRP:NE1	2.19	0.47
2:N:101:VAL:HG23	2:N:146:ALA:HB2	1.97	0.47
2:N:173:LYS:HE2	2:N:173:LYS:HB2	1.34	0.47
2:N:343:ASP:O	2:N:346:GLY:HA2	2.13	0.47
1:A:327:TYR:N	1:A:327:TYR:CD2	2.81	0.47
1:A:403:SER:HA	1:A:404:GLY:HA2	1.53	0.47
1:A:438:ASN:HB3	1:F:316:VAL:HG11	1.96	0.47
1:B:271:LEU:HD13	1:B:273:PHE:HE2	1.78	0.47
1:B:351:PHE:O	1:B:414:GLY:HA3	2.14	0.47
1:B:494:ILE:HD13	1:B:494:ILE:C	2.34	0.47
1:C:158:ARG:HG3	1:C:159:ASP:N	2.29	0.47
1:D:372:SER:O	1:D:373:SER:C	2.51	0.47
1:D:379:PHE:O	1:D:379:PHE:CG	2.66	0.47
1:E:100:ALA:CB	1:E:182:ARG:HD3	2.21	0.47
1:F:250:ASP:C	1:F:250:ASP:OD1	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:410:ILE:N	1:F:410:ILE:HD13	2.28	0.47
1:H:99:ARG:HH22	1:H:240:ARG:HH21	1.61	0.47
1:H:304:LEU:HD12	1:H:308:ALA:O	2.15	0.47
1:H:341:LEU:HD13	1:H:345:ILE:CG2	2.44	0.47
1:H:357:LEU:HD12	1:H:358:ASN:N	2.26	0.47
1:I:362:ASN:HB2	1:I:440:ASN:H	1.79	0.47
1:I:403:SER:HA	1:I:404:GLY:HA2	1.66	0.47
1:J:172:THR:O	1:J:173:SER:HB2	2.13	0.47
1:J:429:ASP:C	1:J:429:ASP:OD2	2.53	0.47
1:L:92:GLN:HB3	1:L:95:ARG:HB2	1.95	0.47
1:M:251:VAL:HG13	1:M:251:VAL:O	2.15	0.47
1:M:33:GLN:O	1:M:34:GLN:HB2	2.15	0.47
1:M:345:ILE:HG12	1:M:346:THR:N	2.29	0.47
1:M:393:ASN:CG	1:M:393:ASN:O	2.52	0.47
2:N:79:ASN:C	2:N:81:ASN:N	2.67	0.47
1:A:165:ASN:H	1:A:165:ASN:HD22	1.63	0.47
1:D:121:ILE:HG23	1:D:122:GLU:N	2.29	0.47
1:D:392:PHE:O	1:D:393:ASN:ND2	2.30	0.47
1:E:327:TYR:CD2	1:E:327:TYR:N	2.82	0.47
1:F:100:ALA:CB	1:F:182:ARG:HD3	2.45	0.47
1:G:374:GLN:HE21	1:G:375:ASN:N	2.12	0.47
1:I:437:GLY:O	1:I:438:ASN:HB2	2.13	0.47
1:I:79:ALA:HB2	1:I:195:THR:HA	1.95	0.47
1:I:97:ALA:O	1:I:243:SER:OG	2.30	0.47
1:J:18:LEU:N	1:J:18:LEU:CD2	2.78	0.47
1:K:92:GLN:CB	1:K:95:ARG:HB2	2.41	0.47
1:L:265:GLN:CA	1:L:265:GLN:HE21	2.26	0.47
1:E:438:ASN:ND2	1:L:318:GLN:CG	2.77	0.47
2:N:186:THR:HG23	2:N:226:ARG:CG	2.40	0.47
1:A:15:GLU:HB3	1:A:16:PRO:HD2	1.96	0.47
1:A:33:GLN:N	1:A:33:GLN:OE1	2.41	0.47
1:A:453:TYR:CD1	1:A:453:TYR:N	2.82	0.47
1:C:336:VAL:CG2	1:C:337:ILE:H	2.27	0.47
1:C:336:VAL:CG2	1:C:337:ILE:N	2.77	0.47
1:C:34:GLN:HG2	1:G:118:PRO:CG	2.44	0.47
1:D:380:SER:OG	1:D:383:ASN:CA	2.61	0.47
1:E:313:LYS:CE	1:E:442:GLN:CD	2.80	0.47
1:F:228:LEU:HD22	1:F:230:PHE:CE2	2.50	0.47
1:G:208:PHE:CE1	1:G:214:TRP:CE2	3.01	0.47
1:G:208:PHE:CD1	1:G:214:TRP:CE2	3.03	0.47
1:H:106:ILE:O	1:H:235:ASN:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:208:PHE:O	1:I:209:LEU:HG	2.15	0.47
1:I:401:GLY:O	1:I:402:VAL:HG22	2.15	0.47
1:I:66:LEU:HD21	1:J:378:ASP:OD1	2.14	0.47
1:J:98:PHE:CE1	1:J:203:LEU:HD13	2.46	0.47
1:K:341:LEU:O	1:K:344:GLN:N	2.47	0.47
1:K:42:SER:HG	1:K:45:PHE:HB3	1.80	0.47
1:K:305:ALA:HB2	1:K:455:THR:HG23	1.97	0.47
1:L:408:LYS:HB3	1:L:408:LYS:NZ	2.29	0.47
1:M:35:VAL:HG13	1:M:274:VAL:HG22	1.97	0.47
1:M:396:THR:HG23	1:M:412:LEU:HD21	1.96	0.47
1:A:75:ILE:HG13	1:A:262:ILE:HG23	1.97	0.47
1:A:325:LYS:HB2	1:A:325:LYS:NZ	2.30	0.47
1:A:336:VAL:CG2	1:A:337:ILE:N	2.78	0.47
1:B:177:LEU:HD23	1:D:179:GLU:OE2	2.14	0.47
1:B:265:GLN:N	1:B:265:GLN:HE21	2.12	0.47
1:D:265:GLN:CA	1:D:265:GLN:HE21	2.24	0.47
1:D:61:THR:HG22	1:D:275:THR:HG23	1.84	0.47
1:C:402:VAL:HA	1:D:88:GLU:OE2	2.15	0.47
1:E:189:VAL:HG12	1:E:189:VAL:O	2.14	0.47
1:H:51:ASN:CB	1:H:231:ASN:OD1	2.63	0.47
1:I:392:PHE:O	1:I:393:ASN:ND2	2.44	0.47
1:I:326:LEU:HD11	1:I:421:LEU:CD2	2.43	0.47
1:J:140:LYS:HG3	1:J:179:GLU:HG2	1.96	0.47
1:J:494:ILE:H	1:J:494:ILE:HD13	1.80	0.47
1:L:125:GLN:HB2	1:L:295:ARG:HH11	1.80	0.47
1:L:91:LEU:HD21	1:L:197:ALA:HB1	1.95	0.47
1:M:261:ASN:N	1:M:261:ASN:HD22	2.12	0.47
2:N:104:ASP:O	2:N:107:LEU:CD1	2.53	0.47
1:A:89:ASN:OD1	1:A:192:ASN:C	2.54	0.47
1:A:334:ASP:O	1:A:336:VAL:O	2.33	0.47
1:C:495:THR:C	1:C:497:GLY:N	2.63	0.47
1:C:501:ASN:ND2	1:C:501:ASN:C	2.43	0.47
1:D:314:SER:OG	1:D:443:VAL:N	2.47	0.47
1:F:237:ASN:HD22	1:F:238:LEU:N	2.13	0.47
1:F:266:GLN:N	1:F:267:PRO:HD2	2.29	0.47
1:F:214:TRP:HZ2	1:F:507:TYR:HH	1.62	0.47
1:C:41:PRO:HD2	1:G:44:SER:HB2	1.96	0.47
1:H:187:MET:O	1:I:397:GLN:HG2	2.14	0.47
1:J:362:ASN:ND2	1:J:362:ASN:O	2.46	0.47
1:J:42:SER:HB3	1:J:52:PHE:CE1	2.50	0.47
1:K:305:ALA:HB2	1:K:455:THR:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:61:THR:CG2	1:L:273:PHE:HB3	2.44	0.47
1:M:314:SER:HB3	1:M:443:VAL:C	2.35	0.47
2:N:115:PRO:HG3	2:N:128:THR:CG2	2.45	0.47
2:N:255:THR:CA	2:N:257:SER:HB2	2.41	0.47
1:A:336:VAL:CG2	1:A:337:ILE:H	2.27	0.47
1:C:29:VAL:CG1	1:C:29:VAL:O	2.63	0.47
1:D:80:ASN:CB	1:D:258:GLY:HA3	2.44	0.47
1:D:417:VAL:HG12	1:D:418:CYS:N	2.30	0.47
1:D:323:PRO:CG	1:D:421:LEU:HD13	2.24	0.47
1:C:15:GLU:OE1	1:D:423:LYS:HA	2.15	0.47
1:D:6:ILE:CD1	1:D:6:ILE:N	2.30	0.47
1:D:83:HIS:NE2	1:D:256:THR:HG23	2.28	0.47
1:E:324:ARG:HB3	1:E:465:VAL:HG22	1.96	0.47
1:E:74:ASP:O	1:E:75:ILE:CG1	2.59	0.47
1:F:193:THR:HG22	1:F:194:THR:H	1.80	0.47
1:L:265:GLN:O	1:L:266:GLN:C	2.53	0.47
1:J:41:PRO:HG2	1:L:315:ASN:HA	1.97	0.47
1:M:21:ASN:C	1:M:22:ASN:HD22	2.18	0.47
2:N:256:LEU:CD1	2:N:307:PRO:HG2	2.44	0.47
1:A:114:ILE:O	1:A:117:PHE:N	2.46	0.47
1:A:166:ASN:OD1	1:A:166:ASN:C	2.53	0.47
1:A:362:ASN:N	1:A:362:ASN:HD22	2.13	0.47
1:B:211:PRO:O	1:B:212:PHE:C	2.53	0.47
1:D:321:SER:OG	1:D:436:ILE:HA	2.15	0.47
1:C:1:MET:N	1:D:488:GLU:OE1	2.48	0.47
1:E:158:ARG:HG3	1:E:159:ASP:N	2.29	0.47
1:E:260:MET:C	1:E:261:ASN:HD22	2.19	0.47
1:E:423:LYS:HD3	1:E:424:ASP:OD2	2.14	0.47
1:F:161:ASP:HA	1:F:162:GLY:HA2	1.65	0.47
1:F:507:TYR:CB	1:F:508:GLY:HA3	2.45	0.47
1:F:507:TYR:CG	1:F:508:GLY:N	2.81	0.47
1:F:67:VAL:HG22	1:F:271:LEU:HD13	1.95	0.47
1:G:106:ILE:HG12	1:G:238:LEU:CD1	2.44	0.47
1:G:83:HIS:ND1	1:G:250:ASP:HB2	2.30	0.47
1:G:358:ASN:C	1:G:358:ASN:OD1	2.53	0.47
1:E:3:ASN:ND2	1:G:483:VAL:O	2.48	0.47
1:H:329:PHE:CD1	1:H:329:PHE:N	2.83	0.47
1:H:43:THR:HG21	1:H:53:ILE:CG2	2.45	0.47
1:J:334:ASP:O	1:J:335:ASN:C	2.54	0.47
1:J:44:SER:O	1:J:44:SER:OG	2.30	0.47
1:I:28:VAL:HG21	1:J:489:VAL:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:208:PHE:HE1	1:K:214:TRP:CD1	2.33	0.47
1:K:362:ASN:HD22	1:K:362:ASN:C	2.17	0.47
1:A:319:LEU:N	1:A:319:LEU:HD13	2.30	0.46
1:A:48:ASN:H	1:A:48:ASN:ND2	2.13	0.46
1:B:332:GLN:CB	1:B:456:VAL:HG23	2.34	0.46
1:B:59:ALA:C	1:B:60:GLN:HG2	2.36	0.46
1:C:1:MET:O	1:C:3:ASN:N	2.39	0.46
1:D:110:LEU:CD1	1:D:209:LEU:HD22	2.43	0.46
1:D:15:GLU:HB3	1:D:16:PRO:HD2	1.97	0.46
1:D:99:ARG:NH1	1:D:240:ARG:HE	2.13	0.46
1:E:416:ILE:O	1:E:416:ILE:HG12	2.15	0.46
1:F:325:LYS:HZ2	1:F:325:LYS:HB3	1.80	0.46
1:G:35:VAL:HG22	1:G:274:VAL:HG13	1.97	0.46
1:G:443:VAL:CG1	1:G:444:GLN:N	2.77	0.46
1:G:49:GLN:HG2	1:G:50:PHE:N	2.29	0.46
1:H:305:ALA:CB	1:H:455:THR:HG22	2.40	0.46
1:H:73:TYR:HE1	1:H:203:LEU:HD23	1.79	0.46
1:I:122:GLU:O	1:I:126:ILE:HB	2.15	0.46
1:I:73:TYR:HE2	1:I:199:ILE:HD12	1.80	0.46
1:J:210:PRO:HA	1:J:211:PRO:C	2.36	0.46
1:I:186:THR:HG21	1:J:393:ASN:HD22	1.79	0.46
1:K:19:GLU:HB3	1:K:20:LEU:CA	2.44	0.46
1:K:304:LEU:HG	1:K:310:SER:OG	2.14	0.46
1:L:106:ILE:CD1	1:L:238:LEU:HA	2.46	0.46
1:B:326:LEU:HD22	1:B:328:LEU:HG	1.97	0.46
1:B:320:ASP:O	1:B:437:GLY:C	2.53	0.46
1:B:1:MET:H1	1:B:7:PRO:HB3	1.76	0.46
1:C:51:ASN:HB2	1:C:231:ASN:CB	2.45	0.46
1:C:65:ARG:HB3	1:C:213:LEU:CD2	2.26	0.46
1:D:261:ASN:O	1:D:262:ILE:CD1	2.61	0.46
1:D:317:VAL:HG22	1:D:318:GLN:N	2.30	0.46
1:D:88:GLU:OE2	1:D:88:GLU:HA	2.14	0.46
1:D:92:GLN:CB	1:D:95:ARG:HB2	2.43	0.46
1:E:172:THR:O	1:E:173:SER:OG	2.30	0.46
1:E:89:ASN:HB3	1:E:192:ASN:HD21	1.80	0.46
1:E:76:THR:HG22	1:E:198:ARG:HG2	1.96	0.46
1:I:132:ARG:HH12	1:I:151:GLU:HG2	1.79	0.46
1:I:322:ILE:O	1:I:322:ILE:HG12	2.14	0.46
1:J:155:GLN:HA	1:J:350:VAL:HG21	1.97	0.46
1:J:192:ASN:HD22	1:J:192:ASN:C	2.19	0.46
1:J:490:LEU:HG	1:J:491:ASN:HD22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:471:VAL:CG2	1:L:5:ALA:HB2	2.36	0.46
1:M:351:PHE:CD1	1:M:414:GLY:O	2.66	0.46
1:B:209:LEU:HD21	1:B:210:PRO:C	2.35	0.46
1:B:372:SER:O	1:B:375:ASN:N	2.47	0.46
1:C:383:ASN:ND2	1:C:420:GLU:HG3	2.30	0.46
1:D:65:ARG:HH12	1:D:213:LEU:CD2	2.28	0.46
1:F:187:MET:HB2	1:F:199:ILE:CD1	2.42	0.46
1:F:368:LEU:O	1:F:368:LEU:HG	2.16	0.46
1:F:393:ASN:O	1:F:393:ASN:CG	2.54	0.46
1:E:17:ARG:NH1	1:G:423:LYS:HZ3	2.14	0.46
1:H:107:THR:O	1:H:124:ALA:HB2	2.16	0.46
1:H:209:LEU:O	1:H:214:TRP:HZ3	1.97	0.46
1:H:286:ILE:HD13	1:H:286:ILE:HA	1.72	0.46
1:J:232:TRP:N	1:J:232:TRP:HD1	2.13	0.46
1:J:474:ASN:HA	1:J:475:THR:HA	1.63	0.46
1:K:83:HIS:ND1	1:K:250:ASP:HB2	2.31	0.46
1:M:325:LYS:NZ	1:M:325:LYS:HB3	2.31	0.46
1:M:85:GLY:HA3	1:M:86:ILE:HG22	1.97	0.46
1:M:79:ALA:HB2	1:M:90:LEU:HD11	1.95	0.46
2:N:168:ASP:HB2	2:N:171:THR:HG21	1.96	0.46
2:N:88:SER:HB2	2:N:194:TYR:CD2	2.50	0.46
1:A:249:ASN:OD1	1:A:254:ASN:O	2.32	0.46
1:A:55:ASN:OD1	1:A:55:ASN:N	2.47	0.46
1:B:161:ASP:HA	1:B:162:GLY:HA2	1.61	0.46
1:B:73:TYR:HE2	1:B:200:THR:CA	2.29	0.46
1:B:400:ASN:OD1	1:B:400:ASN:O	2.33	0.46
1:B:84:ALA:HA	1:B:85:GLY:C	2.36	0.46
1:D:247:ILE:C	1:D:249:ASN:H	2.18	0.46
1:D:386:ASN:ND2	1:D:387:LYS:HE2	2.30	0.46
1:D:84:ALA:HA	1:D:86:ILE:HB	1.97	0.46
1:E:251:VAL:HG13	1:E:252:SER:N	2.30	0.46
1:E:365:GLN:CB	1:L:122:GLU:CG	2.93	0.46
1:E:92:GLN:CB	1:E:95:ARG:HG2	2.46	0.46
1:F:421:LEU:HA	1:F:425:VAL:CG2	2.45	0.46
1:H:345:ILE:HD11	1:H:346:THR:CG2	2.46	0.46
1:I:63:LEU:H	1:I:223:ALA:HB2	1.79	0.46
1:J:332:GLN:OE1	1:J:333:SER:N	2.48	0.46
1:K:314:SER:O	1:K:315:ASN:HB2	2.16	0.46
1:L:155:GLN:HE22	1:L:413:GLU:HA	1.81	0.46
1:B:110:LEU:CD1	1:B:111:ASN:CA	2.93	0.46
1:B:401:GLY:O	1:B:402:VAL:CG2	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:83:HIS:NE2	1:C:256:THR:CG2	2.78	0.46
1:C:336:VAL:O	1:C:337:ILE:CD1	2.63	0.46
1:E:481:ILE:HD13	1:E:481:ILE:HA	1.79	0.46
1:G:386:ASN:ND2	1:G:387:LYS:HD3	2.31	0.46
1:I:188:ASN:HD22	1:I:188:ASN:HA	1.57	0.46
1:I:195:THR:O	1:I:196:THR:HG22	2.16	0.46
1:I:2:SER:O	1:I:3:ASN:HB3	2.14	0.46
1:J:42:SER:OG	1:J:42:SER:O	2.34	0.46
2:N:295:ILE:HG12	2:N:295:ILE:O	2.15	0.46
2:N:84:ILE:O	2:N:85:TYR:CD2	2.59	0.46
1:A:341:LEU:HD22	1:A:342:ASN:N	2.22	0.46
1:B:2:SER:O	1:B:3:ASN:CB	2.64	0.46
1:B:367:ILE:N	1:B:367:ILE:HD13	2.31	0.46
1:D:412:LEU:N	1:D:412:LEU:HD12	2.30	0.46
1:D:449:ASN:HD22	1:D:450:THR:N	2.13	0.46
1:F:69:ILE:HG12	1:F:70:GLN:N	2.31	0.46
1:G:317:VAL:CG2	1:G:319:LEU:CD1	2.93	0.46
1:H:190:VAL:HG13	1:H:198:ARG:HB3	1.96	0.46
1:H:6:ILE:CD1	1:H:6:ILE:N	2.30	0.46
1:J:134:HIS:O	1:J:135:THR:OG1	2.30	0.46
1:K:223:ALA:HA	1:K:224:ASN:HA	1.64	0.46
1:K:320:ASP:O	1:K:437:GLY:O	2.33	0.46
1:M:236:ASN:C	1:M:236:ASN:ND2	2.66	0.46
1:A:107:THR:OG1	1:A:232:TRP:HD1	1.98	0.46
1:A:311:THR:HA	1:A:446:THR:HA	1.97	0.46
1:C:158:ARG:HB2	1:C:246:ASP:HB3	1.97	0.46
1:C:320:ASP:N	1:C:320:ASP:OD1	2.47	0.46
1:C:60:GLN:OE1	1:C:60:GLN:N	2.49	0.46
1:C:95:ARG:HH11	1:C:95:ARG:HG3	1.78	0.46
1:E:29:VAL:HG21	1:F:500:TYR:CE2	2.51	0.46
1:G:265:GLN:O	1:G:267:PRO:CD	2.52	0.46
1:H:110:LEU:HD12	1:H:209:LEU:HD21	1.98	0.46
1:H:326:LEU:HD23	1:H:328:LEU:HD21	1.97	0.46
1:H:244:HIS:CB	1:H:346:THR:HG22	2.38	0.46
1:H:490:LEU:HB3	1:H:491:ASN:ND2	2.28	0.46
1:I:100:ALA:HB3	1:I:182:ARG:HH11	1.80	0.46
1:I:377:TYR:OH	1:I:381:VAL:HG21	2.16	0.46
1:I:173:SER:HA	1:J:164:ASN:OD1	2.15	0.46
1:J:100:ALA:CB	1:J:182:ARG:HD3	2.33	0.46
1:J:286:ILE:CG2	1:J:288:TYR:CZ	2.99	0.46
1:K:397:GLN:H	1:K:397:GLN:HE21	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:474:ASN:HA	1:K:475:THR:HA	1.45	0.46
2:N:234:GLN:HA	2:N:245:GLU:HB2	1.97	0.46
2:N:86:SER:OG	2:N:196:ASN:HB3	2.16	0.46
1:A:110:LEU:CD2	1:A:232:TRP:CZ2	2.99	0.46
1:B:402:VAL:HG12	1:B:403:SER:N	2.29	0.46
1:B:441:LEU:HD22	1:B:442:GLN:N	2.31	0.46
1:C:203:LEU:H	1:C:203:LEU:HD23	1.80	0.46
1:C:298:THR:HG22	1:C:300:PHE:CE2	2.51	0.46
1:C:387:LYS:CE	1:C:387:LYS:HA	2.46	0.46
1:B:172:THR:O	1:D:163:ALA:HB1	2.15	0.46
1:D:380:SER:HB2	1:D:383:ASN:CG	2.36	0.46
1:B:89:ASN:ND2	1:D:402:VAL:N	2.64	0.46
1:E:165:ASN:OD1	1:G:171:PHE:CE1	2.68	0.46
1:E:81:PRO:HA	1:E:82:SER:HA	1.65	0.46
1:F:311:THR:HB	1:F:446:THR:HG22	1.98	0.46
1:G:319:LEU:N	1:G:319:LEU:CD1	2.78	0.46
1:G:349:ASP:OD2	1:G:349:ASP:C	2.54	0.46
1:I:255:SER:CB	1:I:342:ASN:HB2	2.45	0.46
1:K:3:ASN:ND2	1:K:3:ASN:O	2.48	0.46
1:L:121:ILE:HD11	1:L:293:LEU:HG	1.98	0.46
1:M:262:ILE:HD12	1:M:262:ILE:N	2.30	0.46
1:A:250:ASP:O	1:A:251:VAL:CB	2.64	0.46
1:A:436:ILE:H	1:A:436:ILE:HG13	1.60	0.46
1:B:10:VAL:CG2	1:B:11:VAL:N	2.78	0.46
1:B:171:PHE:HB2	1:B:184:SER:CB	2.45	0.46
1:B:192:ASN:C	1:B:193:THR:HG23	2.36	0.46
1:B:330:VAL:O	1:B:351:PHE:HB3	2.16	0.46
1:C:506:ILE:O	1:C:506:ILE:HG12	2.16	0.46
1:D:244:HIS:HB2	1:D:345:ILE:CD1	2.46	0.46
1:E:106:ILE:HD11	1:E:238:LEU:H	1.80	0.46
1:E:19:GLU:CB	1:E:20:LEU:CA	2.94	0.46
1:E:300:PHE:CE2	1:E:312:PHE:HB3	2.51	0.46
1:E:474:ASN:HA	1:E:475:THR:HA	1.52	0.46
1:F:387:LYS:HA	1:F:387:LYS:HE2	1.98	0.46
1:G:343:ASN:C	1:G:343:ASN:ND2	2.54	0.46
1:H:41:PRO:HB3	1:H:266:GLN:NE2	2.31	0.46
1:I:357:LEU:HD13	1:I:358:ASN:N	2.26	0.46
1:I:441:LEU:CD1	1:I:442:GLN:HA	2.46	0.46
1:I:3:ASN:HD22	1:I:4:SER:N	2.13	0.46
1:I:9:ASN:O	1:J:25:THR:HB	2.16	0.46
1:J:466:TYR:N	1:J:466:TYR:HD2	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:57:PRO:C	1:K:58:SER:OG	2.54	0.46
1:M:205:GLU:HG2	1:M:206:GLN:N	2.30	0.46
2:N:75:TYR:HA	2:N:77:ASN:N	2.31	0.46
2:N:75:TYR:CA	2:N:76:PRO:C	2.78	0.46
1:A:305:ALA:HB2	1:A:455:THR:HA	1.98	0.46
1:B:21:ASN:O	1:B:21:ASN:ND2	2.49	0.46
1:B:228:LEU:O	1:B:229:THR:HG22	2.16	0.46
1:B:22:ASN:N	1:B:22:ASN:ND2	2.64	0.46
1:B:357:LEU:HD13	1:B:358:ASN:C	2.36	0.46
1:B:372:SER:C	1:B:374:GLN:N	2.70	0.46
1:C:22:ASN:N	1:C:22:ASN:ND2	2.64	0.46
1:B:15:GLU:HG3	1:D:31:GLY:HA3	1.98	0.46
1:D:341:LEU:C	1:D:341:LEU:CD2	2.68	0.46
1:F:134:HIS:CD2	1:F:507:TYR:CD2	3.04	0.46
1:H:238:LEU:HD22	1:H:262:ILE:CG1	2.42	0.46
1:H:336:VAL:O	1:H:337:ILE:HD13	2.16	0.46
1:H:337:ILE:CG1	1:H:337:ILE:O	2.61	0.46
1:H:386:ASN:C	1:H:386:ASN:HD22	2.19	0.46
1:I:223:ALA:HB1	1:I:224:ASN:HA	1.98	0.46
1:I:249:ASN:O	1:I:249:ASN:ND2	2.49	0.46
1:I:429:ASP:OD2	1:I:430:ASP:N	2.49	0.46
1:J:225:LEU:HD23	1:J:228:LEU:HB2	1.98	0.46
1:L:172:THR:O	1:L:173:SER:HB2	2.14	0.46
1:L:299:GLN:HB2	1:L:299:GLN:HE21	1.51	0.46
1:L:499:SER:O	1:L:502:GLU:N	2.41	0.46
1:M:102:PRO:CA	1:M:241:ILE:CD1	2.94	0.46
2:N:108:THR:O	2:N:109:SER:CB	2.64	0.46
2:N:20:ILE:CG2	2:N:36:PHE:CD1	2.99	0.46
2:N:226:ARG:O	2:N:228:LEU:HB2	2.16	0.46
2:N:74:PRO:O	2:N:75:TYR:HB3	2.14	0.46
1:A:341:LEU:O	1:A:344:GLN:N	2.48	0.45
1:B:73:TYR:CD1	1:B:203:LEU:HD21	2.51	0.45
1:B:321:SER:HB3	1:B:436:ILE:HA	1.98	0.45
1:D:360:THR:HB	1:D:365:GLN:HA	1.99	0.45
1:D:361:TRP:CH2	1:D:427:LEU:HD11	2.51	0.45
1:G:155:GLN:CD	1:G:350:VAL:HG21	2.36	0.45
1:H:449:ASN:C	1:H:449:ASN:ND2	2.70	0.45
1:H:486:LYS:CB	1:H:486:LYS:HZ2	2.00	0.45
1:H:1:MET:HE3	1:I:26:TRP:HB3	1.92	0.45
1:I:85:GLY:C	1:I:86:ILE:HD12	2.30	0.45
1:L:359:LEU:HD23	1:L:367:ILE:CG2	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:67:VAL:HG12	1:L:68:PHE:N	2.31	0.45
1:M:251:VAL:CG1	1:M:251:VAL:O	2.63	0.45
2:N:227:PHE:CD2	2:N:229:GLY:N	2.84	0.45
2:N:227:PHE:HE2	2:N:229:GLY:O	1.96	0.45
1:B:187:MET:HE2	1:B:187:MET:HB3	1.72	0.45
1:B:334:ASP:OD1	1:B:461:TYR:OH	2.29	0.45
1:B:2:SER:C	1:B:3:ASN:ND2	2.70	0.45
1:C:343:ASN:O	1:C:343:ASN:OD1	2.32	0.45
1:D:132:ARG:NH1	1:D:132:ARG:CG	2.72	0.45
1:D:507:TYR:CG	1:D:508:GLY:CA	2.99	0.45
1:E:102:PRO:HD3	1:E:148:PRO:HD2	1.97	0.45
1:E:339:GLN:O	1:E:343:ASN:HB2	2.15	0.45
1:E:75:ILE:HD13	1:E:199:ILE:HD11	1.98	0.45
1:E:83:HIS:HA	1:E:254:ASN:OD1	2.17	0.45
1:E:423:LYS:HG2	1:F:15:GLU:HB2	1.97	0.45
1:E:1:MET:HE1	1:F:26:TRP:HB3	1.98	0.45
1:F:336:VAL:O	1:F:337:ILE:HG13	2.16	0.45
1:F:35:VAL:CG1	1:F:36:THR:N	2.78	0.45
1:F:313:LYS:HB3	1:F:442:GLN:OE1	2.15	0.45
1:G:108:ASN:CA	1:G:235:ASN:OD1	2.64	0.45
1:G:265:GLN:CA	1:G:265:GLN:NE2	2.73	0.45
1:G:317:VAL:HG22	1:G:319:LEU:CD1	2.46	0.45
1:H:341:LEU:HA	1:H:344:GLN:CG	2.46	0.45
1:H:442:GLN:O	1:H:442:GLN:CG	2.65	0.45
1:I:86:ILE:HG21	1:I:256:THR:CG2	2.47	0.45
1:J:186:THR:O	1:J:186:THR:OG1	2.30	0.45
1:J:86:ILE:HA	1:J:86:ILE:HD13	1.77	0.45
1:L:257:ILE:H	1:L:257:ILE:CD1	2.13	0.45
1:M:13:VAL:CG1	1:M:14:GLN:N	2.79	0.45
1:M:222:LEU:H	1:M:222:LEU:CD2	2.23	0.45
2:N:242:TYR:N	2:N:242:TYR:CD2	2.84	0.45
1:B:326:LEU:HD23	1:B:326:LEU:C	2.37	0.45
1:B:396:THR:OG1	1:B:412:LEU:CD1	2.63	0.45
1:C:83:HIS:HE1	1:C:85:GLY:HA3	1.78	0.45
1:D:351:PHE:O	1:D:414:GLY:N	2.49	0.45
1:E:157:TYR:CD2	1:E:346:THR:O	2.70	0.45
1:E:379:PHE:CD1	1:E:379:PHE:O	2.69	0.45
1:F:409:VAL:O	1:F:410:ILE:HD12	2.16	0.45
1:H:17:ARG:HH11	1:H:17:ARG:CG	2.12	0.45
1:H:412:LEU:N	1:H:412:LEU:CD1	2.78	0.45
1:I:258:GLY:HA2	1:I:259:SER:HA	1.72	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:336:VAL:HG13	1:I:337:ILE:HG23	1.99	0.45
1:J:364:GLN:NE2	1:J:367:ILE:CD1	2.63	0.45
1:J:430:ASP:C	1:J:430:ASP:OD1	2.55	0.45
1:K:231:ASN:N	1:K:231:ASN:HD22	2.14	0.45
1:E:438:ASN:HD21	1:L:318:GLN:HE21	1.55	0.45
1:L:352:LEU:N	1:L:352:LEU:HD12	2.31	0.45
1:L:506:ILE:O	1:L:506:ILE:CG2	2.64	0.45
1:M:214:TRP:H	1:M:214:TRP:HE3	1.51	0.45
1:M:293:LEU:HD22	1:M:465:VAL:HB	1.98	0.45
2:N:160:ALA:CB	2:N:182:TYR:HE2	2.29	0.45
1:D:340:ASN:CB	2:N:28:ASP:OD1	2.53	0.45
2:N:98:GLN:NE2	2:N:98:GLN:H	2.13	0.45
1:A:89:ASN:CB	1:A:192:ASN:ND2	2.78	0.45
1:B:91:LEU:HA	1:B:91:LEU:HD12	1.50	0.45
1:C:327:TYR:CD1	1:C:327:TYR:N	2.83	0.45
1:C:83:HIS:CE1	1:C:250:ASP:OD2	2.70	0.45
1:D:140:LYS:HG2	1:D:179:GLU:CG	2.46	0.45
1:D:215:ASP:OD1	1:D:217:GLU:OE2	2.34	0.45
1:F:140:LYS:HG2	1:F:179:GLU:HG2	1.99	0.45
1:F:180:LEU:CD2	1:F:180:LEU:N	2.74	0.45
1:F:429:ASP:OD2	1:F:430:ASP:N	2.50	0.45
1:G:363:ASN:OD1	1:G:363:ASN:O	2.35	0.45
1:G:99:ARG:CG	1:G:99:ARG:HH11	2.30	0.45
1:H:313:LYS:HG3	1:H:444:GLN:HG2	1.95	0.45
1:H:426:GLY:C	1:H:427:LEU:HD13	2.37	0.45
1:H:428:ARG:HG3	1:H:431:GLU:CD	2.35	0.45
1:H:81:PRO:HA	1:H:82:SER:HA	1.58	0.45
1:I:353:GLN:HB2	1:I:393:ASN:HA	1.98	0.45
1:I:490:LEU:HD22	1:I:491:ASN:HB3	1.88	0.45
1:J:143:TRP:C	1:J:145:SER:H	2.18	0.45
1:I:1:MET:SD	1:J:26:TRP:HB3	2.56	0.45
1:J:324:ARG:HA	1:J:433:GLU:HB3	1.97	0.45
1:K:102:PRO:HD3	1:K:148:PRO:HG2	1.97	0.45
1:K:317:VAL:HG22	1:K:317:VAL:O	2.17	0.45
1:K:438:ASN:HD22	1:K:439:PHE:N	2.14	0.45
1:K:361:TRP:CZ3	1:K:441:LEU:HB2	2.44	0.45
1:K:441:LEU:HD22	1:K:442:GLN:N	2.31	0.45
1:L:251:VAL:HG13	1:L:252:SER:HG	1.82	0.45
1:L:359:LEU:CD2	1:L:367:ILE:CG2	2.95	0.45
1:L:327:TYR:CD1	1:L:416:ILE:HD11	2.45	0.45
1:M:121:ILE:HD12	1:M:121:ILE:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:474:ASN:HA	1:A:475:THR:HA	1.47	0.45
1:B:250:ASP:HA	1:B:251:VAL:HA	1.84	0.45
1:B:360:THR:CG2	1:B:442:GLN:O	2.65	0.45
1:C:68:PHE:HB2	1:C:206:GLN:HA	1.99	0.45
1:D:357:LEU:HD13	1:D:358:ASN:N	2.26	0.45
1:D:86:ILE:O	1:D:86:ILE:HG23	2.17	0.45
1:E:259:SER:HA	1:E:341:LEU:HD13	1.96	0.45
1:E:291:PHE:HD2	1:E:508:GLY:HA3	1.81	0.45
1:F:336:VAL:HG12	1:F:337:ILE:HG23	1.99	0.45
1:H:436:ILE:CG1	1:H:437:GLY:CA	2.93	0.45
1:H:61:THR:HG23	1:H:275:THR:HB	1.98	0.45
1:I:153:ASN:H	1:I:153:ASN:ND2	2.15	0.45
1:J:101:PHE:N	1:J:101:PHE:CD2	2.83	0.45
1:J:209:LEU:CD2	1:J:212:PHE:HD2	2.30	0.45
1:J:107:THR:OG1	1:J:232:TRP:HE3	1.98	0.45
1:K:33:GLN:O	1:K:34:GLN:CB	2.60	0.45
1:L:91:LEU:CD2	1:L:197:ALA:HB1	2.47	0.45
1:M:237:ASN:C	1:M:239:ALA:H	2.17	0.45
2:N:99:ASN:HD21	2:N:150:ALA:CB	2.17	0.45
1:A:155:GLN:OE1	1:A:155:GLN:HA	2.17	0.45
1:A:84:ALA:HA	1:A:85:GLY:HA2	1.61	0.45
1:B:363:ASN:O	1:B:364:GLN:NE2	2.50	0.45
1:D:342:ASN:CA	1:D:345:ILE:CG2	2.89	0.45
1:D:401:GLY:O	1:D:402:VAL:HG23	2.16	0.45
1:E:92:GLN:HB2	1:E:95:ARG:CG	2.46	0.45
1:F:110:LEU:HD13	1:F:209:LEU:CD1	2.46	0.45
1:F:35:VAL:HG22	1:F:274:VAL:HG22	1.98	0.45
1:G:244:HIS:HB2	1:G:345:ILE:HG13	1.97	0.45
1:H:257:ILE:HG21	1:H:345:ILE:CD1	2.47	0.45
1:H:310:SER:C	1:H:312:PHE:HE2	2.20	0.45
1:H:350:VAL:HG12	1:H:413:GLU:CA	2.47	0.45
1:I:106:ILE:HD11	1:I:238:LEU:N	2.32	0.45
1:I:195:THR:OG1	1:I:196:THR:CG2	2.65	0.45
1:I:377:TYR:CZ	1:I:381:VAL:HG21	2.52	0.45
1:J:99:ARG:HG3	1:J:100:ALA:N	2.31	0.45
1:K:158:ARG:NH1	1:K:158:ARG:HB2	2.04	0.45
1:K:96:ASP:N	1:K:96:ASP:OD2	2.49	0.45
1:L:132:ARG:O	1:L:386:ASN:OD1	2.35	0.45
1:L:364:GLN:HE21	1:L:365:GLN:N	2.09	0.45
1:M:341:LEU:O	1:M:345:ILE:HG23	2.17	0.45
1:M:346:THR:HG23	1:M:347:THR:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:474:ASN:HA	1:M:475:THR:HA	1.42	0.45
1:A:180:LEU:H	1:A:180:LEU:HD22	1.82	0.45
1:A:99:ARG:HH11	1:A:240:ARG:NH2	2.15	0.45
1:A:343:ASN:O	1:A:347:THR:HG23	2.16	0.45
1:B:83:HIS:HB3	1:B:254:ASN:HB3	1.98	0.45
1:B:337:ILE:CD1	1:B:338:TYR:HA	2.44	0.45
1:B:345:ILE:CG2	1:B:346:THR:HG22	2.47	0.45
1:B:287:THR:HB	1:B:471:VAL:HG22	1.98	0.45
1:D:434:GLY:O	1:D:482:GLY:HA2	2.17	0.45
1:E:316:VAL:CG1	1:E:440:ASN:HB3	2.46	0.45
1:E:403:SER:HA	1:E:404:GLY:HA2	1.70	0.45
1:E:44:SER:HB3	1:J:317:VAL:HB	1.97	0.45
1:F:365:GLN:OE1	1:F:366:GLY:O	2.35	0.45
1:G:378:ASP:O	1:G:381:VAL:HG12	2.14	0.45
1:G:469:THR:CG2	1:G:483:VAL:HG11	2.47	0.45
1:G:62:VAL:HG12	1:G:223:ALA:HB2	1.99	0.45
1:I:87:THR:HA	1:I:88:GLU:HA	1.58	0.45
1:J:96:ASP:HB2	1:J:242:TRP:HE1	1.81	0.45
1:L:26:TRP:CD1	1:L:26:TRP:C	2.90	0.45
1:L:393:ASN:O	1:L:393:ASN:CG	2.55	0.45
1:M:328:LEU:HG	1:M:443:VAL:HG11	1.99	0.45
2:N:87:VAL:HG11	2:N:147:LEU:HD22	1.98	0.45
2:N:271:LEU:CD2	2:N:336:ASP:OD1	2.64	0.45
1:A:171:PHE:HE2	1:A:180:LEU:HD12	1.82	0.45
1:B:92:GLN:HB2	1:B:95:ARG:HB2	1.95	0.45
1:C:217:GLU:OE2	1:C:217:GLU:O	2.35	0.45
1:D:264:PHE:O	1:D:265:GLN:NE2	2.48	0.45
1:D:362:ASN:O	1:D:364:GLN:OE1	2.35	0.45
1:D:387:LYS:HA	1:D:387:LYS:NZ	2.32	0.45
1:D:469:THR:O	1:D:469:THR:CG2	2.64	0.45
1:E:19:GLU:CB	1:E:20:LEU:HA	2.44	0.45
1:E:432:ALA:HB1	1:G:28:VAL:HG23	1.99	0.45
1:G:104:SER:HB3	1:G:205:GLU:OE1	2.17	0.45
1:H:375:ASN:HA	1:H:378:ASP:OD1	2.17	0.45
1:H:395:VAL:CG2	1:H:396:THR:N	2.72	0.45
1:I:428:ARG:HG2	1:I:428:ARG:NH1	2.29	0.45
1:J:386:ASN:O	1:J:386:ASN:ND2	2.48	0.45
1:J:129:ALA:HB1	1:J:416:ILE:HD12	1.99	0.45
1:K:437:GLY:C	1:K:439:PHE:CD2	2.90	0.45
1:M:165:ASN:N	1:M:165:ASN:HD22	2.10	0.45
1:M:318:GLN:HA	1:M:440:ASN:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:225:VAL:HG22	2:N:247:ILE:HD13	1.99	0.45
2:N:251:GLN:HG3	2:N:254:PRO:HD3	1.99	0.45
2:N:324:ILE:HG22	2:N:325:ASP:H	1.81	0.45
2:N:34:ALA:HB3	2:N:351:ILE:HG23	1.98	0.45
1:A:386:ASN:C	1:A:386:ASN:OD1	2.56	0.45
1:B:362:ASN:C	1:B:362:ASN:OD1	2.54	0.45
1:C:304:LEU:O	1:C:305:ALA:HB2	2.16	0.45
1:D:143:TRP:HB3	1:D:206:GLN:HE22	1.82	0.45
1:D:277:ARG:HG3	1:D:280:ILE:HG22	1.99	0.45
1:F:231:ASN:HA	1:F:231:ASN:HD22	1.60	0.45
1:G:140:LYS:HD3	1:G:140:LYS:HA	1.61	0.45
1:H:326:LEU:HD13	1:H:421:LEU:HD11	1.99	0.45
1:I:437:GLY:O	1:I:438:ASN:CB	2.65	0.45
1:J:393:ASN:HB3	1:J:394:GLY:CA	2.34	0.45
1:K:190:VAL:HG23	1:K:198:ARG:HB3	1.99	0.45
1:K:316:VAL:HG11	1:K:440:ASN:HD22	1.82	0.45
1:K:494:ILE:HD13	1:L:14:GLN:HG2	1.98	0.45
1:K:73:TYR:C	1:K:73:TYR:CD2	2.90	0.45
1:L:106:ILE:HD13	1:L:106:ILE:HA	1.71	0.45
1:M:486:LYS:HZ3	1:M:486:LYS:H	1.64	0.45
2:N:171:THR:HG1	2:N:173:LYS:N	2.12	0.45
1:A:305:ALA:HB3	1:A:455:THR:CA	2.43	0.45
1:B:3:ASN:ND2	1:B:3:ASN:N	2.64	0.45
1:C:75:ILE:O	1:C:198:ARG:HG2	2.16	0.45
1:D:266:GLN:HA	1:D:267:PRO:HD3	1.63	0.45
1:D:330:VAL:HG12	1:D:331:LYS:N	2.32	0.45
1:E:507:TYR:CG	1:E:508:GLY:N	2.85	0.45
1:F:188:ASN:HD22	1:F:189:VAL:N	2.15	0.45
1:G:378:ASP:CA	1:G:381:VAL:HG12	2.47	0.45
1:H:332:GLN:HG2	1:H:456:VAL:CG2	2.44	0.45
1:H:332:GLN:OE1	1:H:333:SER:N	2.50	0.45
1:H:327:TYR:CD2	1:H:418:CYS:HB2	2.52	0.45
1:I:360:THR:HG23	1:I:361:TRP:O	2.16	0.45
1:I:478:MET:HG2	1:I:478:MET:H	1.62	0.45
1:J:224:ASN:H	1:J:224:ASN:HD22	1.65	0.45
1:J:333:SER:O	1:J:337:ILE:HG23	2.17	0.45
1:K:249:ASN:OD1	1:K:250:ASP:N	2.49	0.45
1:L:154:TYR:CG	1:L:160:ALA:HB2	2.51	0.45
1:L:218:GLN:NE2	1:M:382:GLN:CD	2.67	0.45
1:L:32:GLY:HA3	1:L:276:PRO:HA	1.99	0.45
1:L:69:ILE:HG12	1:L:70:GLN:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:265:GLN:O	1:M:267:PRO:CD	2.53	0.45
1:A:117:PHE:HE1	1:A:119:VAL:HG22	1.81	0.44
1:A:249:ASN:HB2	1:A:255:SER:HB2	1.99	0.44
1:A:453:TYR:HA	1:A:454:VAL:HA	1.71	0.44
1:B:305:ALA:HB3	1:B:455:THR:CB	2.32	0.44
1:C:373:SER:HA	1:C:376:LEU:HD12	1.99	0.44
1:D:133:TYR:OH	1:D:418:CYS:HB3	2.16	0.44
1:D:22:ASN:HD22	1:D:22:ASN:N	2.15	0.44
1:C:6:ILE:HG23	1:D:285:ARG:CD	2.47	0.44
1:D:503:LEU:H	1:D:503:LEU:CD2	1.97	0.44
1:D:85:GLY:HA2	1:D:86:ILE:HG22	2.00	0.44
1:F:363:ASN:O	1:F:363:ASN:OD1	2.34	0.44
1:H:71:VAL:HB	1:H:267:PRO:HB3	1.97	0.44
1:H:345:ILE:HG12	1:H:346:THR:N	2.31	0.44
1:H:350:VAL:CG1	1:H:413:GLU:CA	2.93	0.44
1:I:1:MET:SD	1:J:26:TRP:CD1	3.10	0.44
1:I:304:LEU:HD13	1:I:304:LEU:N	2.32	0.44
1:I:367:ILE:CG2	1:I:368:LEU:HD12	2.38	0.44
1:K:242:TRP:HD1	1:K:345:ILE:HD11	1.82	0.44
1:M:341:LEU:CD1	1:M:345:ILE:HG23	2.47	0.44
1:M:411:GLY:C	1:M:412:LEU:HD12	2.19	0.44
1:M:6:ILE:H	1:M:6:ILE:CD1	2.15	0.44
2:N:104:ASP:HB2	2:N:107:LEU:CD1	2.47	0.44
2:N:185:ARG:HB2	2:N:226:ARG:HB3	1.99	0.44
2:N:185:ARG:HB2	2:N:224:ASP:OD1	2.16	0.44
2:N:242:TYR:N	2:N:242:TYR:HD2	2.15	0.44
2:N:333:TYR:HB2	2:N:334:MET:HE1	1.92	0.44
2:N:268:VAL:HG13	2:N:338:TYR:HB2	1.97	0.44
2:N:52:PHE:CZ	2:N:368:LYS:HG3	2.52	0.44
2:N:74:PRO:O	2:N:75:TYR:HD1	2.00	0.44
1:A:52:PHE:CD2	1:A:52:PHE:N	2.85	0.44
1:A:62:VAL:HG22	1:A:62:VAL:O	2.17	0.44
1:B:73:TYR:CE1	1:B:203:LEU:HD22	2.53	0.44
1:C:286:ILE:HD11	1:C:288:TYR:CE1	2.51	0.44
1:C:383:ASN:HD21	1:C:420:GLU:CG	2.27	0.44
1:C:58:SER:OG	1:G:116:GLY:HA2	2.17	0.44
1:D:100:ALA:HA	1:D:101:PHE:HA	1.83	0.44
1:E:60:GLN:HG2	1:E:60:GLN:O	2.18	0.44
1:G:430:ASP:OD1	1:G:490:LEU:HB2	2.16	0.44
1:I:143:TRP:CE3	1:I:216:GLY:HA2	2.52	0.44
1:J:258:GLY:HA2	1:J:259:SER:HA	1.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:282:ILE:HB	1:J:283:PRO:HD2	1.99	0.44
1:J:374:GLN:O	1:J:377:TYR:HB3	2.17	0.44
1:L:45:PHE:HA	1:L:49:GLN:O	2.17	0.44
1:M:42:SER:HB2	1:M:52:PHE:CE1	2.52	0.44
2:N:86:SER:N	2:N:196:ASN:OD1	2.42	0.44
2:N:303:VAL:HA	2:N:304:THR:HA	1.62	0.44
1:A:420:GLU:HB3	1:A:423:LYS:CB	2.47	0.44
1:A:297:THR:HB	1:A:461:TYR:CD1	2.52	0.44
1:B:106:ILE:O	1:B:235:ASN:HB3	2.17	0.44
1:B:317:VAL:C	1:B:318:GLN:HG2	2.36	0.44
1:B:320:ASP:O	1:B:437:GLY:O	2.36	0.44
1:B:411:GLY:C	1:B:412:LEU:HD12	2.26	0.44
1:B:77:PHE:HA	1:B:260:MET:HB3	2.00	0.44
1:C:163:ALA:HB1	1:D:173:SER:H	1.81	0.44
1:C:258:GLY:HA2	1:C:259:SER:HA	1.68	0.44
1:C:326:LEU:O	1:C:327:TYR:CD1	2.56	0.44
1:C:367:ILE:O	1:C:368:LEU:HB2	2.17	0.44
1:D:103:ILE:HA	1:D:103:ILE:HD13	1.90	0.44
1:D:75:ILE:HG12	1:D:262:ILE:HG23	1.94	0.44
1:F:302:ASN:N	1:F:302:ASN:OD1	2.50	0.44
1:H:300:PHE:HZ	1:H:460:MET:HG2	1.82	0.44
1:I:377:TYR:HE1	1:I:389:TRP:CB	2.25	0.44
1:I:357:LEU:HB2	1:I:445:MET:HB2	2.00	0.44
1:J:386:ASN:ND2	1:J:387:LYS:HE2	2.33	0.44
1:J:498:VAL:HG23	1:J:499:SER:C	2.37	0.44
1:L:189:VAL:O	1:L:189:VAL:HG23	2.17	0.44
1:L:247:ILE:HG22	1:L:248:THR:N	2.33	0.44
1:L:385:TYR:CG	1:L:385:TYR:O	2.70	0.44
1:L:83:HIS:HD2	1:L:86:ILE:HB	1.82	0.44
1:M:396:THR:CG2	1:M:412:LEU:HD21	2.47	0.44
2:N:225:VAL:CG2	2:N:247:ILE:HD12	2.48	0.44
2:N:77:ASN:ND2	2:N:77:ASN:C	2.71	0.44
2:N:85:TYR:HA	2:N:196:ASN:CG	2.34	0.44
1:B:262:ILE:HG12	1:B:263:SER:N	2.33	0.44
1:D:307:ASN:HA	1:D:449:ASN:O	2.16	0.44
1:D:336:VAL:HG22	1:D:337:ILE:N	2.25	0.44
1:E:132:ARG:HG3	1:E:132:ARG:NH1	2.32	0.44
1:E:314:SER:O	1:E:442:GLN:HG3	2.18	0.44
1:E:1:MET:HE2	1:E:9:ASN:O	2.16	0.44
1:G:41:PRO:HA	1:G:268:SER:CB	2.48	0.44
1:G:378:ASP:OD2	1:G:378:ASP:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:393:ASN:ND2	1:G:393:ASN:C	2.71	0.44
1:H:324:ARG:HG3	1:H:324:ARG:O	2.18	0.44
1:H:364:GLN:HB3	1:H:365:GLN:H	1.53	0.44
1:H:437:GLY:O	1:H:439:PHE:CE2	2.71	0.44
1:H:494:ILE:HD12	1:H:494:ILE:H	1.82	0.44
1:J:222:LEU:HA	1:J:288:TYR:OH	2.17	0.44
1:K:334:ASP:O	1:K:335:ASN:C	2.55	0.44
1:K:496:HIS:HA	1:K:497:GLY:C	2.38	0.44
1:E:438:ASN:CG	1:L:318:GLN:HE21	2.17	0.44
1:M:73:TYR:CD2	1:M:73:TYR:C	2.90	0.44
2:N:60:ILE:HD12	2:N:313:ILE:HG21	1.98	0.44
1:A:115:ASN:ND2	1:A:472:ILE:CG2	2.75	0.44
1:B:187:MET:HE1	1:B:242:TRP:CH2	2.53	0.44
1:B:326:LEU:CD2	1:B:328:LEU:HG	2.46	0.44
1:B:87:THR:C	1:B:88:GLU:CD	2.74	0.44
1:B:99:ARG:HH21	1:B:240:ARG:NH2	2.15	0.44
1:C:68:PHE:CB	1:C:206:GLN:HA	2.48	0.44
1:C:451:ASN:N	1:C:451:ASN:HD22	2.16	0.44
1:D:21:ASN:O	1:D:21:ASN:CG	2.54	0.44
1:D:337:ILE:O	1:D:337:ILE:CG1	2.58	0.44
1:E:2:SER:O	1:E:3:ASN:ND2	2.50	0.44
1:H:386:ASN:ND2	1:H:386:ASN:O	2.42	0.44
1:H:403:SER:HA	1:H:404:GLY:HA2	1.56	0.44
1:H:474:ASN:HA	1:H:475:THR:HA	1.44	0.44
1:I:91:LEU:CB	1:I:192:ASN:ND2	2.81	0.44
1:I:484:ALA:HB1	1:I:489:VAL:HG23	1.99	0.44
1:K:317:VAL:O	1:K:317:VAL:CG2	2.66	0.44
1:K:502:GLU:O	1:K:505:ARG:HB3	2.17	0.44
1:L:172:THR:C	1:L:173:SER:OG	2.53	0.44
1:L:3:ASN:HA	1:L:3:ASN:HD22	1.52	0.44
1:L:402:VAL:CG1	1:L:405:GLN:HG3	2.47	0.44
1:M:217:GLU:OE1	1:M:217:GLU:CA	2.65	0.44
1:M:262:ILE:H	1:M:262:ILE:HD12	1.82	0.44
1:M:437:GLY:O	1:M:439:PHE:HE2	1.90	0.44
2:N:129:PRO:HA	2:N:132:TYR:CZ	2.53	0.44
1:A:19:GLU:HB2	1:A:20:LEU:C	2.38	0.44
1:A:380:SER:CB	1:A:383:ASN:H	2.30	0.44
1:B:26:TRP:HA	1:B:26:TRP:CE3	2.52	0.44
1:C:237:ASN:C	1:C:239:ALA:H	2.20	0.44
1:C:84:ALA:HA	1:C:86:ILE:N	2.32	0.44
1:D:62:VAL:HG12	1:D:223:ALA:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:166:ASN:OD1	1:G:166:ASN:C	2.56	0.44
1:G:376:LEU:CB	1:G:379:PHE:HE2	2.31	0.44
1:I:194:THR:HG23	1:I:194:THR:O	2.18	0.44
1:K:298:THR:O	1:K:298:THR:CG2	2.66	0.44
1:K:397:GLN:HA	1:K:409:VAL:HA	1.99	0.44
1:M:353:GLN:O	1:M:447:VAL:HG23	2.17	0.44
1:A:19:GLU:N	1:A:20:LEU:HA	2.31	0.44
1:A:39:PRO:HB3	1:A:270:TYR:CZ	2.53	0.44
1:A:324:ARG:HG2	1:A:465:VAL:HG23	1.98	0.44
1:B:167:PRO:CD	1:B:168:LEU:N	2.79	0.44
1:B:22:ASN:HD22	1:B:22:ASN:N	2.15	0.44
1:B:252:SER:OG	1:B:252:SER:O	2.30	0.44
1:C:329:PHE:CD1	1:C:329:PHE:N	2.84	0.44
1:E:323:PRO:O	1:E:433:GLU:OE1	2.36	0.44
1:G:250:ASP:CG	1:G:251:VAL:N	2.70	0.44
1:G:280:ILE:HG13	1:G:280:ILE:O	2.18	0.44
1:G:376:LEU:HB3	1:G:379:PHE:HE2	1.81	0.44
1:G:71:VAL:HG12	1:G:267:PRO:CB	2.48	0.44
1:H:436:ILE:HG13	1:H:437:GLY:CA	2.35	0.44
1:I:127:ILE:CG2	1:I:128:HIS:N	2.80	0.44
1:I:270:TYR:C	1:I:271:LEU:HD23	2.38	0.44
1:I:379:PHE:CG	1:I:424:ASP:OD2	2.60	0.44
1:J:252:SER:HB3	1:J:254:ASN:HD21	1.81	0.44
1:K:73:TYR:CE2	1:K:199:ILE:HD12	2.43	0.44
1:M:211:PRO:C	1:M:212:PHE:CD2	2.90	0.44
1:M:102:PRO:CA	1:M:241:ILE:HD11	2.46	0.44
1:M:350:VAL:HG23	1:M:351:PHE:N	2.33	0.44
1:A:170:VAL:HG23	1:A:172:THR:O	2.18	0.44
1:A:260:MET:HE3	1:A:260:MET:HB2	1.84	0.44
1:B:244:HIS:CE1	1:B:257:ILE:HD11	2.53	0.44
1:B:385:TYR:CD2	1:B:387:LYS:N	2.86	0.44
1:B:385:TYR:CE2	1:B:387:LYS:CG	3.00	0.44
1:C:95:ARG:NE	1:C:248:THR:HG23	2.32	0.44
1:C:507:TYR:CD1	1:C:507:TYR:C	2.91	0.44
1:E:320:ASP:C	1:E:321:SER:OG	2.55	0.44
1:F:103:ILE:HG22	1:F:205:GLU:HG3	1.99	0.44
1:F:367:ILE:C	1:F:369:SER:N	2.71	0.44
1:F:77:PHE:HD2	1:F:77:PHE:N	2.16	0.44
1:G:41:PRO:HG3	1:L:46:SER:HB3	2.00	0.44
1:G:55:ASN:OD1	1:G:55:ASN:N	2.51	0.44
1:H:92:GLN:HB3	1:H:95:ARG:HD3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:6:ILE:HD13	1:I:6:ILE:H	1.82	0.44
1:J:152:ASP:OD1	1:J:348:PRO:HB2	2.17	0.44
1:J:456:VAL:O	1:J:456:VAL:HG13	2.18	0.44
1:K:26:TRP:O	1:M:1:MET:HE1	2.18	0.44
1:L:301:GLN:H	1:L:301:GLN:HE21	1.61	0.44
1:L:392:PHE:CD2	1:L:415:GLY:HA3	2.52	0.44
1:L:321:SER:OG	1:L:434:GLY:O	2.36	0.44
1:M:488:GLU:HG3	1:M:489:VAL:N	2.33	0.44
2:N:315:PHE:O	2:N:315:PHE:CG	2.71	0.44
1:A:106:ILE:CD1	1:A:238:LEU:HG	2.48	0.44
1:A:161:ASP:HA	1:A:162:GLY:HA2	1.55	0.44
1:B:209:LEU:HD23	1:B:209:LEU:O	2.12	0.44
1:B:249:ASN:O	1:B:250:ASP:OD1	2.36	0.44
1:B:301:GLN:NE2	1:G:301:GLN:HB3	2.33	0.44
1:B:403:SER:HA	1:B:404:GLY:HA2	1.53	0.44
1:D:158:ARG:HG3	1:D:247:ILE:HB	1.99	0.44
1:D:80:ASN:HD21	1:D:254:ASN:HB2	1.82	0.44
1:D:82:SER:C	1:D:254:ASN:HD21	2.22	0.44
1:D:360:THR:OG1	1:D:360:THR:O	2.36	0.44
1:E:240:ARG:NH1	1:E:240:ARG:CG	2.78	0.44
1:E:339:GLN:O	1:E:340:ASN:CB	2.65	0.44
1:F:143:TRP:O	1:F:144:MET:C	2.55	0.44
1:F:206:GLN:O	1:F:207:VAL:C	2.56	0.44
1:G:133:TYR:CD2	1:G:416:ILE:HD11	2.52	0.44
1:G:72:PRO:HD2	1:G:266:GLN:O	2.17	0.44
1:H:330:VAL:HG13	1:H:331:LYS:H	1.82	0.44
1:H:85:GLY:O	1:H:86:ILE:HB	2.17	0.44
1:I:150:PHE:CD2	1:I:167:PRO:HA	2.53	0.44
1:I:412:LEU:O	1:I:413:GLU:CB	2.65	0.44
1:J:146:MET:O	1:J:185:TYR:OH	2.19	0.44
1:L:21:ASN:C	1:L:22:ASN:HD22	2.22	0.44
1:L:298:THR:HG21	1:L:314:SER:HB2	1.99	0.44
2:N:33:PRO:HB2	2:N:35:ILE:CD1	2.48	0.44
2:N:77:ASN:HD22	2:N:78:THR:N	2.16	0.44
1:A:22:ASN:H	1:A:22:ASN:HD22	1.61	0.43
1:A:399:PHE:HB3	1:A:407:THR:HB	2.00	0.43
1:B:190:VAL:HG23	1:B:198:ARG:HB2	1.97	0.43
1:B:258:GLY:HA2	1:B:259:SER:HA	1.68	0.43
1:B:421:LEU:O	1:B:425:VAL:HG12	2.18	0.43
1:C:170:VAL:O	1:C:172:THR:O	2.36	0.43
1:C:21:ASN:N	1:C:21:ASN:HD22	2.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:258:GLY:O	1:D:259:SER:CB	2.55	0.43
1:D:361:TRP:CZ2	1:D:421:LEU:CD2	3.01	0.43
1:E:257:ILE:HA	1:E:257:ILE:HD12	1.87	0.43
1:F:379:PHE:HA	1:F:380:SER:HA	1.65	0.43
1:F:449:ASN:ND2	1:F:449:ASN:C	2.70	0.43
1:H:263:SER:O	1:H:264:PHE:HD1	2.00	0.43
1:H:41:PRO:HA	1:H:268:SER:HB3	2.00	0.43
1:I:286:ILE:HD13	1:I:286:ILE:H	1.82	0.43
1:J:140:LYS:NZ	1:J:179:GLU:OE2	2.51	0.43
1:H:315:ASN:HA	1:K:41:PRO:HG2	1.99	0.43
1:L:257:ILE:HD13	1:L:345:ILE:CD1	2.46	0.43
1:M:110:LEU:HD13	1:M:110:LEU:O	2.18	0.43
1:M:133:TYR:HE2	1:M:416:ILE:HG13	1.83	0.43
1:M:338:TYR:HD2	1:M:338:TYR:N	2.13	0.43
2:N:64:ASN:HA	2:N:64:ASN:HD22	1.54	0.43
1:A:3:ASN:HD22	1:A:3:ASN:HA	1.60	0.43
1:B:92:GLN:HG3	1:B:93:PRO:HD2	1.99	0.43
1:C:110:LEU:HD23	1:C:232:TRP:CD2	2.53	0.43
1:D:1:MET:SD	1:D:10:VAL:HA	2.58	0.43
1:D:117:PHE:C	1:D:117:PHE:HD1	2.20	0.43
1:D:427:LEU:HA	1:D:427:LEU:HD13	1.62	0.43
1:F:474:ASN:HA	1:F:475:THR:HA	1.62	0.43
1:H:99:ARG:CZ	1:H:240:ARG:HH21	2.31	0.43
1:H:386:ASN:ND2	1:H:386:ASN:C	2.72	0.43
1:I:126:ILE:HD13	1:I:293:LEU:HB3	2.01	0.43
1:H:179:GLU:CD	1:J:177:LEU:CD2	2.81	0.43
1:M:300:PHE:C	1:M:301:GLN:NE2	2.70	0.43
2:N:235:ASP:HB3	2:N:236:PRO:C	2.38	0.43
1:A:108:ASN:HD21	1:A:109:THR:CG2	2.12	0.43
1:A:360:THR:HG23	1:A:442:GLN:HB3	2.00	0.43
1:B:184:SER:O	1:D:396:THR:HG22	2.18	0.43
1:B:192:ASN:HD22	1:B:193:THR:CA	2.29	0.43
1:C:249:ASN:HB2	1:C:255:SER:HA	2.00	0.43
1:C:77:PHE:HD2	1:C:197:ALA:HB3	1.83	0.43
1:D:187:MET:HG2	1:D:199:ILE:HD13	1.98	0.43
1:D:342:ASN:HA	1:D:345:ILE:HG22	1.96	0.43
1:D:379:PHE:HA	1:D:380:SER:HA	1.30	0.43
1:D:461:TYR:C	1:D:462:ILE:HG13	2.37	0.43
1:E:286:ILE:CD1	1:E:287:THR:N	2.77	0.43
1:E:423:LYS:HB3	1:E:424:ASP:OD2	2.19	0.43
1:F:133:TYR:CZ	1:F:418:CYS:HB3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:385:TYR:CE2	1:F:387:LYS:HB2	2.53	0.43
1:F:92:GLN:CB	1:F:95:ARG:HD3	2.48	0.43
1:G:261:ASN:C	1:G:262:ILE:HD13	2.38	0.43
1:H:258:GLY:HA2	1:H:259:SER:HA	1.71	0.43
1:H:321:SER:O	1:H:322:ILE:C	2.55	0.43
1:H:398:GLN:HG3	1:J:170:VAL:HG11	2.00	0.43
1:I:140:LYS:HG2	1:I:179:GLU:CD	2.18	0.43
1:J:35:VAL:HG22	1:J:274:VAL:HG13	2.00	0.43
1:K:49:GLN:HE21	1:K:51:ASN:ND2	2.16	0.43
1:L:215:ASP:OD1	1:L:216:GLY:N	2.51	0.43
1:M:33:GLN:O	1:M:34:GLN:CB	2.66	0.43
1:A:358:ASN:C	1:A:358:ASN:OD1	2.56	0.43
1:A:387:LYS:HD2	1:A:391:GLU:HG2	1.99	0.43
1:A:86:ILE:HA	1:A:86:ILE:HD13	1.85	0.43
1:B:122:GLU:OE1	1:B:124:ALA:N	2.46	0.43
1:B:396:THR:O	1:B:410:ILE:HG13	2.17	0.43
1:C:374:GLN:NE2	1:D:146:MET:CE	2.81	0.43
1:C:420:GLU:O	1:C:424:ASP:HB3	2.18	0.43
1:E:228:LEU:O	1:E:229:THR:CG2	2.65	0.43
1:E:449:ASN:ND2	1:E:450:THR:N	2.66	0.43
1:F:106:ILE:HD12	1:F:241:ILE:CG1	2.31	0.43
1:F:219:ALA:O	1:F:220:GLY:C	2.57	0.43
1:F:380:SER:CB	1:F:383:ASN:H	2.31	0.43
1:G:63:LEU:HD22	1:G:64:ASP:N	2.33	0.43
1:H:108:ASN:C	1:H:108:ASN:ND2	2.71	0.43
1:H:217:GLU:HG2	1:H:217:GLU:H	1.49	0.43
1:H:59:ALA:O	1:H:60:GLN:HB3	2.19	0.43
1:I:307:ASN:OD1	1:I:307:ASN:N	2.51	0.43
1:I:350:VAL:H	1:I:350:VAL:HG13	1.53	0.43
1:I:379:PHE:C	1:I:379:PHE:HD1	2.22	0.43
1:J:322:ILE:CG2	1:J:361:TRP:CZ2	2.71	0.43
1:J:78:THR:HG22	1:J:259:SER:O	2.18	0.43
1:J:86:ILE:O	1:J:86:ILE:CD1	2.61	0.43
1:L:121:ILE:HG21	1:L:209:LEU:HB3	2.00	0.43
1:M:88:GLU:C	1:M:194:THR:HG22	2.19	0.43
1:M:209:LEU:HD12	1:M:210:PRO:C	2.36	0.43
2:N:158:VAL:HB	2:N:159:GLY:H	1.41	0.43
2:N:29:GLN:CD	2:N:29:GLN:C	2.77	0.43
1:A:113:THR:HA	1:A:118:PRO:HA	2.00	0.43
1:B:285:ARG:HG3	1:B:285:ARG:NH1	2.29	0.43
1:D:122:GLU:OE2	1:D:122:GLU:CA	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:187:MET:HG2	1:D:199:ILE:CD1	2.49	0.43
1:D:452:GLN:CA	1:D:452:GLN:NE2	2.79	0.43
1:D:83:HIS:HE1	1:D:256:THR:HA	1.83	0.43
1:E:108:ASN:ND2	1:E:108:ASN:C	2.71	0.43
1:E:340:ASN:HB2	1:E:343:ASN:H	1.84	0.43
1:F:320:ASP:HB3	1:F:436:ILE:HD13	1.99	0.43
1:F:367:ILE:C	1:F:369:SER:H	2.22	0.43
1:F:474:ASN:OD1	1:F:475:THR:HB	2.19	0.43
1:G:264:PHE:C	1:G:265:GLN:HE22	2.08	0.43
1:G:351:PHE:CD2	1:G:416:ILE:CG2	2.92	0.43
1:G:217:GLU:OE1	1:G:505:ARG:HG2	2.18	0.43
1:H:168:LEU:HG	1:H:168:LEU:H	1.69	0.43
1:H:307:ASN:N	1:H:307:ASN:OD1	2.51	0.43
1:H:311:THR:O	1:H:312:PHE:HD2	1.92	0.43
1:I:121:ILE:HD13	1:I:209:LEU:HB2	2.00	0.43
1:I:230:PHE:C	1:I:231:ASN:ND2	2.72	0.43
1:I:382:GLN:CD	1:I:423:LYS:NZ	2.72	0.43
1:J:393:ASN:N	1:J:394:GLY:CA	2.81	0.43
1:J:306:PRO:HB3	1:J:452:GLN:O	2.18	0.43
1:K:436:ILE:CG2	1:K:482:GLY:CA	2.68	0.43
1:L:174:ALA:HB2	1:L:181:PRO:HD3	2.00	0.43
1:L:2:SER:O	1:L:2:SER:OG	2.30	0.43
1:L:498:VAL:HG23	1:L:499:SER:H	1.83	0.43
2:N:289:ILE:O	2:N:290:ILE:C	2.54	0.43
1:B:108:ASN:O	1:B:122:GLU:OE1	2.37	0.43
1:C:123:LEU:CD2	1:C:127:ILE:CB	2.96	0.43
1:D:317:VAL:CG2	1:D:318:GLN:N	2.81	0.43
1:D:362:ASN:O	1:D:362:ASN:CG	2.57	0.43
1:D:155:GLN:HG3	1:D:411:GLY:HA3	2.01	0.43
1:D:459:ASP:C	1:D:459:ASP:OD2	2.56	0.43
1:D:65:ARG:HB3	1:D:65:ARG:HH11	1.82	0.43
1:E:12:ALA:HB3	1:G:494:ILE:HG22	2.00	0.43
1:E:322:ILE:N	1:E:439:PHE:HE1	2.17	0.43
1:E:494:ILE:H	1:E:494:ILE:HG13	1.58	0.43
1:F:335:ASN:ND2	1:F:336:VAL:N	2.67	0.43
1:F:380:SER:HB2	1:F:383:ASN:CG	2.39	0.43
1:F:403:SER:HA	1:F:404:GLY:HA2	1.78	0.43
1:F:89:ASN:ND2	1:G:402:VAL:C	2.72	0.43
1:C:34:GLN:HG2	1:G:118:PRO:HG2	2.01	0.43
1:G:501:ASN:O	1:G:504:GLN:HB2	2.19	0.43
1:G:87:THR:C	1:G:88:GLU:HG2	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:143:TRP:C	1:H:145:SER:H	2.22	0.43
1:H:350:VAL:HG12	1:H:413:GLU:HA	2.00	0.43
1:I:135:THR:HG21	1:I:144:MET:CE	2.48	0.43
1:I:362:ASN:O	1:I:363:ASN:CB	2.65	0.43
1:J:151:GLU:OE2	1:J:151:GLU:HA	2.18	0.43
1:K:41:PRO:HA	1:K:268:SER:HB3	2.00	0.43
1:L:419:LEU:HB2	1:L:424:ASP:HB3	2.00	0.43
1:L:430:ASP:OD1	1:L:431:GLU:N	2.52	0.43
1:M:138:LYS:NZ	1:M:138:LYS:HB2	2.32	0.43
2:N:117:ALA:HA	2:N:118:PRO:HD3	1.71	0.43
1:A:135:THR:HA	1:A:136:PRO:HD3	1.88	0.43
1:B:87:THR:C	1:B:88:GLU:CG	2.86	0.43
1:C:385:TYR:CE2	1:C:387:LYS:HB3	2.54	0.43
1:C:55:ASN:HA	1:C:56:PRO:HD2	1.85	0.43
1:C:374:GLN:NE2	1:D:146:MET:HE2	2.34	0.43
1:E:336:VAL:HG22	1:E:337:ILE:N	2.34	0.43
1:E:333:SER:HB3	1:E:457:THR:OG1	2.18	0.43
1:G:337:ILE:HA	1:G:343:ASN:ND2	2.33	0.43
1:H:99:ARG:HH22	1:H:240:ARG:NH2	2.16	0.43
1:I:393:ASN:O	1:I:393:ASN:CG	2.57	0.43
1:K:63:LEU:HD22	1:K:63:LEU:C	2.39	0.43
1:M:121:ILE:HD13	1:M:209:LEU:HD22	2.00	0.43
1:M:501:ASN:O	1:M:504:GLN:HG2	2.19	0.43
2:N:140:LEU:HD22	2:N:165:PHE:HB3	2.00	0.43
2:N:84:ILE:HG23	2:N:85:TYR:CE2	2.54	0.43
1:A:412:LEU:HA	1:A:412:LEU:HD23	1.83	0.43
1:A:428:ARG:HG2	1:A:428:ARG:HH11	1.83	0.43
1:A:383:ASN:HA	1:A:504:GLN:OE1	2.18	0.43
1:C:143:TRP:C	1:C:145:SER:H	2.20	0.43
1:C:290:TYR:HB2	1:C:470:LEU:HB3	2.00	0.43
1:C:52:PHE:N	1:C:52:PHE:CD2	2.87	0.43
1:B:93:PRO:HD3	1:D:401:GLY:HA3	2.00	0.43
1:E:341:LEU:CG	1:E:342:ASN:N	2.81	0.43
1:E:43:THR:HB	1:J:318:GLN:HB2	1.99	0.43
1:H:120:ASN:HD22	1:H:120:ASN:C	2.22	0.43
1:H:437:GLY:O	1:H:439:PHE:CD2	2.71	0.43
1:I:428:ARG:O	1:I:431:GLU:HB2	2.18	0.43
1:J:429:ASP:OD2	1:J:430:ASP:N	2.52	0.43
1:K:111:ASN:OD1	1:K:111:ASN:C	2.57	0.43
1:K:483:VAL:C	1:L:1:MET:HB3	2.38	0.43
1:K:69:ILE:HG12	1:K:70:GLN:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1:MET:O	1:L:3:ASN:N	2.42	0.43
1:L:412:LEU:O	1:L:413:GLU:HB3	2.19	0.43
1:G:43:THR:CG2	1:L:44:SER:H	2.29	0.43
1:M:110:LEU:HD22	1:M:110:LEU:C	2.38	0.43
2:N:108:THR:C	2:N:109:SER:OG	2.55	0.43
1:A:347:THR:HA	1:A:348:PRO:HD3	1.91	0.43
1:A:475:THR:HG1	1:E:38:TYR:HE2	1.65	0.43
1:C:262:ILE:N	1:C:262:ILE:HD12	2.34	0.43
1:D:140:LYS:HG3	1:D:179:GLU:HG2	2.00	0.43
1:D:409:VAL:HG11	1:D:452:GLN:OE1	2.18	0.43
1:E:148:PRO:HG3	1:E:185:TYR:CD1	2.52	0.43
1:E:258:GLY:HA2	1:E:341:LEU:HD12	1.74	0.43
1:E:322:ILE:HG21	1:E:427:LEU:HD21	2.01	0.43
1:E:55:ASN:HB3	1:E:56:PRO:HD2	2.00	0.43
1:F:187:MET:O	1:G:397:GLN:HB2	2.19	0.43
1:I:164:ASN:HD22	1:I:164:ASN:HA	1.60	0.43
1:K:394:GLY:HA3	1:K:412:LEU:HB2	2.01	0.43
1:K:61:THR:HG23	1:K:275:THR:CG2	2.40	0.43
1:L:1:MET:CG	1:M:26:TRP:CD1	3.02	0.43
1:L:362:ASN:C	1:L:364:GLN:H	2.21	0.43
1:M:252:SER:N	1:M:253:GLY:CA	2.77	0.43
1:M:364:GLN:O	1:M:367:ILE:HD11	2.19	0.43
1:M:65:ARG:CG	1:M:65:ARG:HH11	2.30	0.43
2:N:267:LEU:N	2:N:267:LEU:HD12	2.34	0.43
1:A:251:VAL:C	1:A:253:GLY:H	2.21	0.43
1:A:155:GLN:HG3	1:A:411:GLY:HA3	2.01	0.43
1:A:58:SER:O	1:A:59:ALA:CB	2.59	0.43
1:B:429:ASP:C	1:B:429:ASP:OD2	2.57	0.43
1:B:501:ASN:HD22	1:B:501:ASN:C	2.23	0.43
1:C:174:ALA:HB2	1:C:181:PRO:HD3	2.00	0.43
1:C:326:LEU:HD23	1:C:462:ILE:HG23	1.99	0.43
1:C:397:GLN:NE2	1:C:407:THR:CG2	2.82	0.43
1:E:73:TYR:C	1:E:73:TYR:CD1	2.89	0.43
1:F:121:ILE:HD11	1:F:293:LEU:H	1.84	0.43
1:F:412:LEU:HD12	1:F:412:LEU:HA	1.68	0.43
1:F:431:GLU:OE2	1:F:439:PHE:CZ	2.71	0.43
1:G:325:LYS:HE2	1:G:325:LYS:HB2	1.81	0.43
1:H:99:ARG:HH22	1:H:240:ARG:CZ	2.31	0.43
1:I:100:ALA:HB1	1:I:148:PRO:O	2.19	0.43
1:I:117:PHE:CE2	1:I:479:ALA:HB2	2.54	0.43
1:H:471:VAL:HG21	1:I:5:ALA:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:158:ARG:CG	1:J:158:ARG:NH1	2.76	0.43
1:J:189:VAL:HG13	1:J:189:VAL:O	2.19	0.43
1:J:39:PRO:HB3	1:J:270:TYR:CZ	2.54	0.43
1:J:343:ASN:O	1:J:347:THR:HG22	2.18	0.43
1:L:380:SER:O	1:L:383:ASN:HB2	2.19	0.43
1:L:353:GLN:HB2	1:L:393:ASN:HA	2.01	0.43
1:M:332:GLN:HE22	1:M:336:VAL:HG13	1.77	0.43
1:M:403:SER:HA	1:M:404:GLY:HA2	1.63	0.43
2:N:55:VAL:CG1	2:N:296:LEU:CD1	2.96	0.43
1:A:100:ALA:HB2	1:A:182:ARG:HD2	2.00	0.42
1:A:23:GLU:OE2	1:A:23:GLU:HA	2.14	0.42
1:A:304:LEU:O	1:A:305:ALA:HB2	2.19	0.42
1:A:307:ASN:HA	1:A:449:ASN:O	2.19	0.42
1:B:337:ILE:HD12	1:B:338:TYR:CD2	2.42	0.42
1:B:89:ASN:HD21	1:D:402:VAL:N	2.12	0.42
1:C:333:SER:HB3	1:C:457:THR:O	2.19	0.42
1:C:70:GLN:HE21	1:C:71:VAL:N	2.17	0.42
1:D:244:HIS:HD2	1:D:245:SER:O	2.02	0.42
1:E:13:VAL:CG1	1:E:14:GLN:N	2.82	0.42
1:E:293:LEU:HD23	1:E:293:LEU:N	2.34	0.42
1:E:99:ARG:HH22	1:E:240:ARG:CZ	2.32	0.42
1:F:318:GLN:C	1:F:319:LEU:HD23	2.40	0.42
1:G:92:GLN:CB	1:G:95:ARG:HB2	2.46	0.42
1:I:265:GLN:O	1:I:267:PRO:CD	2.58	0.42
1:J:379:PHE:CD2	1:J:379:PHE:C	2.91	0.42
1:K:1:MET:SD	1:L:26:TRP:CE2	3.12	0.42
1:L:215:ASP:OD2	1:L:217:GLU:HG2	2.19	0.42
1:L:336:VAL:O	1:L:339:GLN:OE1	2.37	0.42
1:L:88:GLU:O	1:L:194:THR:HB	2.19	0.42
1:M:147:GLN:O	1:M:148:PRO:C	2.54	0.42
2:N:139:PHE:O	2:N:142:MET:HB2	2.19	0.42
2:N:202:PHE:HB3	2:N:259:TRP:CZ2	2.54	0.42
2:N:231:ASN:OD1	2:N:248:GLN:O	2.37	0.42
1:A:209:LEU:HA	1:A:210:PRO:HD3	1.81	0.42
1:A:30:LYS:NZ	1:A:30:LYS:HB3	2.34	0.42
1:A:331:LYS:HG3	1:A:332:GLN:O	2.19	0.42
1:B:322:ILE:CG2	1:B:421:LEU:HD23	2.49	0.42
1:C:111:ASN:OD1	1:C:111:ASN:C	2.58	0.42
1:D:387:LYS:HA	1:D:387:LYS:HZ3	1.83	0.42
1:E:153:ASN:ND2	1:E:153:ASN:N	2.55	0.42
1:F:41:PRO:HB2	1:F:266:GLN:HE21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:217:GLU:OE2	1:H:505:ARG:HG2	2.18	0.42
1:H:236:ASN:OD1	1:H:237:ASN:OD1	2.36	0.42
1:H:385:TYR:HE2	1:H:387:LYS:HB2	1.83	0.42
1:E:118:PRO:CD	1:J:117:PHE:CE2	3.01	0.42
1:J:443:VAL:O	1:J:443:VAL:HG12	2.18	0.42
1:K:63:LEU:HD21	1:K:271:LEU:HD12	2.01	0.42
1:L:204:TYR:CE1	1:M:374:GLN:HG2	2.54	0.42
1:L:251:VAL:O	1:L:251:VAL:CG1	2.67	0.42
1:L:30:LYS:NZ	1:L:30:LYS:HB3	2.33	0.42
1:M:392:PHE:CD2	1:M:415:GLY:HA3	2.54	0.42
1:M:291:PHE:HD1	1:M:467:ASP:OD2	2.02	0.42
2:N:12:GLU:N	2:N:13:PRO:HD2	2.33	0.42
2:N:171:THR:CB	2:N:172:GLU:HA	2.46	0.42
1:B:10:VAL:HG22	1:B:11:VAL:N	2.32	0.42
1:B:154:TYR:CZ	1:B:165:ASN:ND2	2.88	0.42
1:B:108:ASN:HB2	1:B:235:ASN:HA	2.02	0.42
1:C:266:GLN:HA	1:C:267:PRO:HD3	1.95	0.42
1:C:436:ILE:HG12	1:C:436:ILE:O	2.19	0.42
1:D:22:ASN:ND2	1:D:22:ASN:N	2.67	0.42
1:D:2:SER:O	1:D:3:ASN:CG	2.57	0.42
1:D:364:GLN:C	1:D:365:GLN:HG2	2.38	0.42
1:F:343:ASN:N	1:F:343:ASN:HD22	2.18	0.42
1:G:207:VAL:O	1:G:207:VAL:HG12	2.19	0.42
1:H:22:ASN:O	1:H:22:ASN:ND2	2.42	0.42
1:H:315:ASN:N	1:H:315:ASN:OD1	2.30	0.42
1:H:365:GLN:HA	1:H:366:GLY:HA2	1.61	0.42
1:L:357:LEU:CD1	1:L:358:ASN:CA	2.96	0.42
1:L:376:LEU:HA	1:L:379:PHE:CE2	2.54	0.42
1:L:332:GLN:NE2	1:L:456:VAL:HG23	2.35	0.42
1:M:217:GLU:CD	1:M:217:GLU:N	2.73	0.42
1:M:507:TYR:CG	1:M:508:GLY:HA3	2.50	0.42
2:N:166:PHE:C	2:N:166:PHE:CD1	2.93	0.42
1:A:230:PHE:N	1:A:230:PHE:CD2	2.87	0.42
1:A:302:ASN:N	1:A:302:ASN:OD1	2.52	0.42
1:A:386:ASN:O	1:A:386:ASN:OD1	2.38	0.42
1:B:41:PRO:HB2	1:B:266:GLN:OE1	2.19	0.42
1:B:377:TYR:CE1	1:B:389:TRP:HB2	2.55	0.42
1:C:310:SER:CB	1:C:312:PHE:CZ	3.02	0.42
1:C:483:VAL:CA	1:C:484:ALA:CB	2.97	0.42
1:D:104:SER:HB3	1:D:205:GLU:OE1	2.19	0.42
1:D:392:PHE:HD1	1:D:393:ASN:N	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:357:LEU:HD11	1:E:359:LEU:HB3	2.01	0.42
1:F:80:ASN:CB	1:F:258:GLY:O	2.66	0.42
1:F:322:ILE:HD11	1:F:435:VAL:HG12	2.01	0.42
1:H:212:PHE:HE2	1:H:230:PHE:HZ	1.63	0.42
1:H:254:ASN:N	1:H:254:ASN:OD1	2.52	0.42
1:H:365:GLN:NE2	1:L:370:GLY:CA	2.62	0.42
1:I:318:GLN:C	1:I:319:LEU:HD13	2.40	0.42
1:I:322:ILE:CD1	1:I:433:GLU:O	2.67	0.42
1:I:332:GLN:HG2	1:I:456:VAL:HG23	2.02	0.42
1:I:350:VAL:HB	1:I:413:GLU:CA	2.50	0.42
1:I:352:LEU:HD11	1:I:456:VAL:HG21	2.01	0.42
1:J:108:ASN:CA	1:J:235:ASN:HD21	2.20	0.42
1:J:157:TYR:CZ	1:J:348:PRO:HB3	2.55	0.42
1:K:494:ILE:O	1:K:494:ILE:HG13	2.18	0.42
1:L:100:ALA:HB2	1:L:182:ARG:HD3	2.01	0.42
1:M:166:ASN:C	1:M:166:ASN:OD1	2.57	0.42
2:N:357:ARG:HG3	2:N:358:ILE:N	2.33	0.42
1:B:228:LEU:C	1:B:229:THR:CG2	2.85	0.42
1:C:100:ALA:HA	1:C:101:PHE:HA	1.82	0.42
1:B:32:GLY:H	1:C:18:LEU:HD21	1.84	0.42
1:C:330:VAL:HG12	1:C:330:VAL:O	2.18	0.42
1:C:486:LYS:HE2	1:C:486:LYS:HB3	1.37	0.42
1:C:488:GLU:CD	1:C:489:VAL:CA	2.85	0.42
1:D:283:PRO:HA	1:D:284:PRO:HD3	1.90	0.42
1:D:334:ASP:O	1:D:335:ASN:C	2.56	0.42
1:B:204:TYR:CD1	1:D:374:GLN:HG2	2.55	0.42
1:E:108:ASN:HD22	1:E:108:ASN:C	2.21	0.42
1:E:59:ALA:O	1:E:60:GLN:HB3	2.19	0.42
1:F:335:ASN:HD21	1:F:336:VAL:HG23	1.84	0.42
1:G:100:ALA:HA	1:G:101:PHE:HA	1.89	0.42
1:G:353:GLN:O	1:G:353:GLN:HG3	2.19	0.42
1:I:110:LEU:HD22	1:I:111:ASN:N	2.14	0.42
1:I:146:MET:O	1:I:185:TYR:HE2	2.03	0.42
1:I:481:ILE:H	1:I:481:ILE:HD13	1.83	0.42
1:J:106:ILE:HD13	1:J:106:ILE:HA	1.78	0.42
1:J:133:TYR:CE2	1:J:418:CYS:HB3	2.55	0.42
1:J:192:ASN:ND2	1:J:192:ASN:C	2.73	0.42
1:J:330:VAL:HG23	1:J:460:MET:HG3	2.00	0.42
1:K:126:ILE:HD11	1:K:295:ARG:HG2	2.01	0.42
1:K:235:ASN:HD21	1:K:237:ASN:HB2	1.85	0.42
1:K:351:PHE:HE1	1:K:413:GLU:OE2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:81:PRO:HA	1:K:82:SER:HA	1.79	0.42
1:L:99:ARG:NH2	1:L:240:ARG:NH2	2.56	0.42
1:L:379:PHE:CD1	1:L:424:ASP:OD2	2.72	0.42
1:L:332:GLN:CD	1:L:456:VAL:HG23	2.40	0.42
1:M:318:GLN:NE2	1:M:318:GLN:N	2.63	0.42
1:M:364:GLN:C	1:M:367:ILE:HD11	2.40	0.42
1:M:397:GLN:C	1:M:397:GLN:HE21	2.23	0.42
1:M:420:GLU:HB3	1:M:423:LYS:HB3	2.01	0.42
1:M:486:LYS:HD3	1:M:486:LYS:N	2.33	0.42
2:N:182:TYR:HA	2:N:183:TYR:HA	1.75	0.42
2:N:227:PHE:HD2	2:N:229:GLY:N	2.16	0.42
1:A:1:MET:SD	1:A:10:VAL:HG13	2.60	0.42
1:A:111:ASN:O	1:A:111:ASN:CG	2.57	0.42
1:A:41:PRO:HA	1:A:268:SER:HB3	2.01	0.42
1:B:103:ILE:O	1:B:103:ILE:HG13	2.19	0.42
1:B:71:VAL:HA	1:B:72:PRO:HD3	1.84	0.42
1:C:507:TYR:CG	1:C:508:GLY:HA3	2.54	0.42
1:C:4:SER:OG	1:C:6:ILE:O	2.30	0.42
1:D:261:ASN:O	1:D:262:ILE:HD12	2.20	0.42
1:D:373:SER:O	1:D:374:GLN:C	2.58	0.42
1:D:474:ASN:HA	1:D:475:THR:HA	1.45	0.42
1:E:303:THR:HG21	1:E:457:THR:HG23	1.90	0.42
1:E:322:ILE:HD13	1:E:439:PHE:CE1	2.52	0.42
1:E:89:ASN:HB3	1:E:192:ASN:ND2	2.34	0.42
1:F:265:GLN:O	1:F:267:PRO:HD3	2.20	0.42
1:F:396:THR:HG21	1:F:412:LEU:HD22	2.00	0.42
1:G:1:MET:SD	1:G:8:LEU:O	2.78	0.42
1:G:365:GLN:CG	1:G:365:GLN:O	2.66	0.42
1:I:207:VAL:HG22	1:I:232:TRP:HZ2	1.84	0.42
1:I:430:ASP:OD1	1:I:490:LEU:HD12	2.19	0.42
1:J:328:LEU:HD12	1:J:328:LEU:N	2.34	0.42
1:K:362:ASN:N	1:K:362:ASN:HD22	2.18	0.42
1:K:330:VAL:HG11	1:K:447:VAL:HG21	2.02	0.42
1:L:362:ASN:C	1:L:364:GLN:N	2.71	0.42
1:M:59:ALA:O	1:M:60:GLN:HB2	2.15	0.42
2:N:143:ILE:HG12	2:N:203:PHE:CZ	2.51	0.42
2:N:51:TYR:HA	2:N:366:ILE:O	2.18	0.42
2:N:82:ASN:HA	2:N:102:GLN:HA	2.02	0.42
1:B:210:PRO:HA	1:B:211:PRO:C	2.39	0.42
1:B:305:ALA:HB1	1:B:306:PRO:HA	2.02	0.42
1:B:385:TYR:C	1:B:385:TYR:CD2	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:387:LYS:HA	1:B:387:LYS:HD2	1.77	0.42
1:B:1:MET:H2	1:B:7:PRO:CB	2.28	0.42
1:C:474:ASN:HA	1:C:475:THR:HA	1.51	0.42
1:C:15:GLU:OE1	1:D:423:LYS:CB	2.67	0.42
1:E:228:LEU:C	1:E:229:THR:CG2	2.87	0.42
1:E:43:THR:C	1:E:44:SER:OG	2.57	0.42
1:E:4:SER:O	1:E:5:ALA:C	2.58	0.42
1:F:132:ARG:NH1	1:F:413:GLU:OE2	2.53	0.42
1:F:106:ILE:CD1	1:F:238:LEU:HD12	2.45	0.42
1:F:494:ILE:HG21	1:G:14:GLN:HE21	1.84	0.42
1:G:111:ASN:HD22	1:G:231:ASN:HB2	1.85	0.42
1:G:258:GLY:HA2	1:G:259:SER:HA	1.80	0.42
1:H:100:ALA:HB2	1:H:182:ARG:CD	2.50	0.42
1:H:22:ASN:C	1:H:22:ASN:HD22	2.16	0.42
1:H:427:LEU:HD13	1:H:427:LEU:N	2.34	0.42
1:J:135:THR:HA	1:J:136:PRO:HD3	1.55	0.42
1:J:317:VAL:HG22	1:J:319:LEU:HD23	2.01	0.42
1:J:376:LEU:HA	1:J:379:PHE:CE1	2.54	0.42
1:J:405:GLN:HA	1:J:405:GLN:HE21	1.83	0.42
1:J:81:PRO:HA	1:J:82:SER:HA	1.79	0.42
1:K:125:GLN:NE2	1:K:295:ARG:NH1	2.66	0.42
1:L:204:TYR:CD1	1:M:374:GLN:HG2	2.55	0.42
1:L:361:TRP:CZ3	1:L:441:LEU:HB3	2.54	0.42
1:M:228:LEU:C	1:M:229:THR:HG22	2.40	0.42
1:M:271:LEU:HD23	1:M:271:LEU:N	2.34	0.42
1:M:60:GLN:O	1:M:276:PRO:HD2	2.20	0.42
1:A:66:LEU:C	1:A:66:LEU:HD23	2.40	0.42
1:A:87:THR:CA	1:A:88:GLU:OE1	2.68	0.42
1:B:19:GLU:CD	1:B:19:GLU:N	2.73	0.42
1:B:342:ASN:O	1:B:346:THR:CG2	2.67	0.42
1:B:39:PRO:HB3	1:B:270:TYR:CZ	2.53	0.42
1:B:129:ALA:HB1	1:B:416:ILE:HD12	2.01	0.42
1:C:161:ASP:HA	1:C:162:GLY:HA2	1.61	0.42
1:C:488:GLU:CG	1:C:489:VAL:N	2.82	0.42
1:C:89:ASN:CG	1:C:192:ASN:ND2	2.73	0.42
1:D:100:ALA:HB2	1:D:182:ARG:HD3	2.02	0.42
1:D:325:LYS:H	1:D:465:VAL:HG23	1.85	0.42
1:B:89:ASN:OD1	1:D:400:ASN:O	2.37	0.42
1:E:399:PHE:O	1:G:93:PRO:HA	2.19	0.42
1:G:159:ASP:OD2	1:G:160:ALA:HA	2.20	0.42
1:G:5:ALA:CA	1:G:6:ILE:C	2.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:95:ARG:HE	1:H:248:THR:HG22	1.84	0.42
1:H:80:ASN:CB	1:H:258:GLY:O	2.55	0.42
1:H:430:ASP:OD1	1:H:490:LEU:HA	2.13	0.42
1:I:35:VAL:HG22	1:I:274:VAL:HG13	2.02	0.42
1:J:213:LEU:C	1:J:213:LEU:HD12	2.32	0.42
1:A:275:THR:OG1	1:J:363:ASN:ND2	2.53	0.42
1:J:57:PRO:C	1:L:363:ASN:OD1	2.58	0.42
1:J:87:THR:HA	1:J:88:GLU:HA	1.68	0.42
1:M:258:GLY:HA2	1:M:259:SER:HA	1.83	0.42
1:M:286:ILE:HG13	1:M:287:THR:H	1.85	0.42
1:M:298:THR:HG22	1:M:299:GLN:N	2.34	0.42
1:M:334:ASP:O	1:M:335:ASN:C	2.57	0.42
1:M:503:LEU:HD23	1:M:503:LEU:HA	1.79	0.42
1:M:67:VAL:HG12	1:M:68:PHE:N	2.35	0.42
2:N:21:LEU:C	2:N:21:LEU:HD12	2.40	0.42
2:N:225:VAL:O	2:N:249:MET:SD	2.77	0.42
1:A:328:LEU:HD11	1:A:419:LEU:HD22	2.02	0.42
1:A:355:ASN:O	1:A:373:SER:HB3	2.19	0.42
1:A:428:ARG:NH1	1:A:428:ARG:CG	2.78	0.42
1:A:4:SER:O	1:A:5:ALA:C	2.58	0.42
1:B:193:THR:O	1:B:194:THR:C	2.55	0.42
1:B:332:GLN:HE21	1:B:456:VAL:HG23	1.77	0.42
1:C:207:VAL:O	1:C:207:VAL:CG1	2.68	0.42
1:B:6:ILE:HD13	1:C:285:ARG:CD	2.43	0.42
1:C:313:LYS:HE3	1:C:442:GLN:HG2	2.02	0.42
1:C:33:GLN:N	1:C:33:GLN:OE1	2.50	0.42
1:C:374:GLN:O	1:C:378:ASP:OD1	2.38	0.42
1:F:22:ASN:HD22	1:F:22:ASN:C	2.23	0.42
1:F:265:GLN:C	1:F:267:PRO:HD3	2.39	0.42
1:F:506:ILE:CD1	1:F:506:ILE:C	2.79	0.42
1:F:87:THR:O	1:F:88:GLU:HB2	2.19	0.42
1:G:159:ASP:OD2	1:G:160:ALA:CA	2.68	0.42
1:G:73:TYR:CD2	1:G:75:ILE:HD11	2.52	0.42
1:H:114:ILE:HG22	1:H:115:ASN:HB2	2.02	0.42
1:I:262:ILE:CG2	1:I:263:SER:N	2.64	0.42
1:I:474:ASN:HA	1:I:475:THR:HA	1.78	0.42
1:J:1:MET:HB3	1:J:1:MET:HE2	1.94	0.42
1:J:252:SER:C	1:J:254:ASN:H	2.23	0.42
1:K:50:PHE:HZ	1:K:264:PHE:CD2	2.38	0.42
1:L:449:ASN:OD1	1:L:456:VAL:HG12	2.20	0.42
1:L:45:PHE:CG	1:L:45:PHE:O	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:255:THR:CB	2:N:257:SER:HB2	2.39	0.42
1:A:158:ARG:HG3	1:A:159:ASP:N	2.35	0.42
1:A:75:ILE:HD13	1:A:199:ILE:HD11	2.02	0.42
1:A:314:SER:O	1:A:442:GLN:NE2	2.53	0.42
1:B:249:ASN:HB2	1:B:255:SER:HA	2.02	0.42
1:B:82:SER:C	1:B:84:ALA:N	2.73	0.42
1:B:83:HIS:NE2	1:B:86:ILE:HB	2.35	0.42
1:C:291:PHE:CD1	1:C:291:PHE:N	2.88	0.42
1:C:377:TYR:HE1	1:C:389:TRP:CB	2.29	0.42
1:C:6:ILE:HG23	1:D:285:ARG:HD3	2.02	0.42
1:D:397:GLN:O	1:D:397:GLN:HG2	2.20	0.42
1:D:80:ASN:OD1	1:D:80:ASN:C	2.58	0.42
1:E:161:ASP:HA	1:E:162:GLY:HA2	1.63	0.42
1:E:286:ILE:HD13	1:E:287:THR:N	2.26	0.42
1:H:99:ARG:CZ	1:H:240:ARG:NH2	2.82	0.42
1:J:153:ASN:ND2	1:J:153:ASN:N	2.65	0.42
1:J:392:PHE:CD2	1:J:415:GLY:HA2	2.55	0.42
1:K:59:ALA:CA	1:K:60:GLN:HE21	2.31	0.42
1:L:420:GLU:HB3	1:L:423:LYS:HB3	2.01	0.42
1:L:474:ASN:HA	1:L:475:THR:HA	1.58	0.42
1:A:95:ARG:CG	1:A:95:ARG:HH11	2.32	0.41
1:C:33:GLN:O	1:C:34:GLN:CB	2.68	0.41
1:C:460:MET:HB2	1:C:460:MET:HE2	1.64	0.41
1:C:73:TYR:C	1:C:73:TYR:CD2	2.93	0.41
1:D:505:ARG:HD3	1:D:505:ARG:HA	1.83	0.41
1:D:96:ASP:OD1	1:D:244:HIS:ND1	2.53	0.41
1:F:325:LYS:NZ	1:F:420:GLU:CG	2.82	0.41
1:G:209:LEU:N	1:G:209:LEU:CD2	2.83	0.41
1:G:470:LEU:HD11	1:G:472:ILE:HG13	2.02	0.41
1:G:490:LEU:O	1:G:491:ASN:HB2	2.19	0.41
1:H:73:TYR:O	1:H:200:THR:HG22	2.19	0.41
1:H:456:VAL:O	1:H:456:VAL:HG13	2.19	0.41
1:H:487:GLU:CG	1:H:488:GLU:N	2.60	0.41
1:H:93:PRO:HA	1:I:399:PHE:HB2	2.02	0.41
1:J:209:LEU:HD21	1:J:212:PHE:CD2	2.55	0.41
1:J:327:TYR:O	1:J:328:LEU:HG	2.20	0.41
1:K:363:ASN:HD22	1:K:363:ASN:HA	1.61	0.41
1:K:388:THR:HG23	1:K:391:GLU:CG	2.50	0.41
1:L:449:ASN:HD22	1:L:449:ASN:C	2.14	0.41
1:L:465:VAL:O	1:L:465:VAL:CG2	2.67	0.41
1:L:115:ASN:OD1	1:L:475:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:13:VAL:HG12	1:M:14:GLN:N	2.35	0.41
1:L:423:LYS:HA	1:M:15:GLU:CD	2.40	0.41
1:C:118:PRO:HD2	1:M:369:SER:OG	2.20	0.41
1:A:135:THR:HG22	1:A:139:VAL:CB	2.48	0.41
1:A:261:ASN:N	1:A:261:ASN:ND2	2.69	0.41
1:A:322:ILE:HD11	1:A:431:GLU:HG2	2.01	0.41
1:A:422:GLY:HA3	1:A:433:GLU:OE2	2.20	0.41
1:B:100:ALA:HB1	1:B:148:PRO:O	2.21	0.41
1:B:244:HIS:CG	1:B:245:SER:H	2.38	0.41
1:B:334:ASP:O	1:B:337:ILE:HG23	2.20	0.41
1:B:379:PHE:HA	1:B:380:SER:HA	1.44	0.41
1:C:375:ASN:ND2	1:C:376:LEU:N	2.68	0.41
1:D:264:PHE:CA	1:D:265:GLN:NE2	2.82	0.41
1:E:344:GLN:H	1:E:344:GLN:HG2	1.45	0.41
1:F:106:ILE:CD1	1:F:238:LEU:HA	2.50	0.41
1:F:361:TRP:CG	1:F:362:ASN:N	2.88	0.41
1:A:481:ILE:HG22	1:F:365:GLN:HG3	1.94	0.41
1:F:379:PHE:CD1	1:F:424:ASP:OD2	2.73	0.41
1:G:198:ARG:NH1	1:G:198:ARG:CG	2.82	0.41
1:G:209:LEU:HA	1:G:210:PRO:HD3	1.89	0.41
1:G:408:LYS:NZ	1:G:408:LYS:N	2.63	0.41
1:H:345:ILE:CD1	1:H:346:THR:HG22	2.50	0.41
1:H:387:LYS:NZ	1:H:391:GLU:OE2	2.40	0.41
1:H:397:GLN:HG2	1:H:398:GLN:H	1.84	0.41
1:I:98:PHE:O	1:I:182:ARG:HD2	2.20	0.41
1:I:209:LEU:HA	1:I:210:PRO:HD3	1.83	0.41
1:J:127:ILE:CG2	1:J:128:HIS:N	2.83	0.41
1:K:2:SER:O	1:K:3:ASN:CB	2.64	0.41
1:K:9:ASN:O	1:L:25:THR:HB	2.19	0.41
1:M:133:TYR:HE2	1:M:416:ILE:CG1	2.33	0.41
1:M:158:ARG:NH1	1:M:158:ARG:CG	2.69	0.41
1:M:341:LEU:HD11	1:M:345:ILE:CG2	2.50	0.41
2:N:194:TYR:CD1	2:N:219:ARG:HB2	2.55	0.41
2:N:234:GLN:HB3	2:N:245:GLU:H	1.85	0.41
2:N:304:THR:HG23	2:N:306:GLY:H	1.85	0.41
1:A:343:ASN:HD22	1:A:343:ASN:HA	1.54	0.41
1:B:111:ASN:HA	1:B:120:ASN:HB2	2.02	0.41
1:B:101:PHE:HD1	1:B:147:GLN:HG3	1.84	0.41
1:B:325:LYS:HB3	1:B:325:LYS:HZ2	1.85	0.41
1:C:478:MET:N	1:C:478:MET:HE3	2.36	0.41
1:D:252:SER:H	1:D:253:GLY:CA	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:43:THR:HG21	1:D:53:ILE:CG2	2.50	0.41
1:D:499:SER:C	1:D:501:ASN:ND2	2.73	0.41
1:E:155:GLN:CG	1:E:451:ASN:HB2	2.50	0.41
1:F:4:SER:HB3	1:F:6:ILE:O	2.21	0.41
1:H:143:TRP:O	1:H:145:SER:N	2.54	0.41
1:H:206:GLN:H	1:H:206:GLN:HG2	1.58	0.41
1:J:4:SER:OG	1:J:6:ILE:O	2.35	0.41
1:K:403:SER:HA	1:K:404:GLY:HA2	1.50	0.41
1:K:49:GLN:HE21	1:K:51:ASN:HD21	1.68	0.41
1:L:251:VAL:O	1:L:252:SER:CB	2.68	0.41
2:N:188:THR:C	2:N:190:PRO:HD3	2.40	0.41
2:N:20:ILE:HD11	2:N:335:VAL:CG2	2.49	0.41
2:N:55:VAL:HG11	2:N:296:LEU:HD12	2.01	0.41
1:A:133:TYR:OH	1:A:418:CYS:HB3	2.21	0.41
1:A:73:TYR:HE1	1:A:201:GLY:C	2.24	0.41
1:A:380:SER:HB3	1:A:385:TYR:HB2	2.02	0.41
1:B:187:MET:CE	1:B:242:TRP:CZ3	3.03	0.41
1:B:244:HIS:CD2	1:B:257:ILE:HG12	2.54	0.41
1:C:143:TRP:CH2	1:C:216:GLY:O	2.73	0.41
1:C:423:LYS:O	1:C:423:LYS:HD2	2.20	0.41
1:C:313:LYS:HE3	1:C:442:GLN:CG	2.50	0.41
1:C:495:THR:OG1	1:C:497:GLY:HA3	2.20	0.41
1:D:357:LEU:O	1:D:357:LEU:HD12	2.06	0.41
1:D:469:THR:HG22	1:D:483:VAL:HG11	2.03	0.41
1:E:475:THR:O	1:E:476:SER:HB3	2.20	0.41
1:E:56:PRO:O	1:E:56:PRO:CG	2.68	0.41
1:F:286:ILE:HG23	1:F:287:THR:N	2.35	0.41
1:G:336:VAL:CG2	1:G:337:ILE:N	2.83	0.41
1:G:430:ASP:OD1	1:G:490:LEU:HD12	2.21	0.41
1:H:17:ARG:NH1	1:H:17:ARG:CG	2.74	0.41
1:I:107:THR:HA	1:I:234:LEU:HA	2.02	0.41
1:I:350:VAL:CG2	1:I:413:GLU:HA	2.51	0.41
1:J:231:ASN:C	1:J:232:TRP:CD1	2.93	0.41
1:J:222:LEU:HA	1:J:288:TYR:CZ	2.55	0.41
1:K:119:VAL:O	1:K:119:VAL:HG12	2.20	0.41
1:L:61:THR:HG21	1:L:273:PHE:HB3	2.02	0.41
1:L:28:VAL:HG23	1:M:432:ALA:HB1	2.02	0.41
1:L:322:ILE:H	1:L:322:ILE:HG12	1.48	0.41
1:L:360:THR:HB	1:L:364:GLN:O	2.21	0.41
1:K:187:MET:O	1:L:397:GLN:HG3	2.20	0.41
1:L:490:LEU:O	1:L:490:LEU:HD23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:332:GLN:HG2	1:M:456:VAL:CG2	2.50	0.41
2:N:353:ILE:HA	2:N:354:PRO:HD2	1.80	0.41
2:N:372:LYS:O	2:N:373:TYR:C	2.58	0.41
2:N:66:PRO:HA	2:N:134:TYR:HD1	1.84	0.41
1:A:490:LEU:HD23	1:A:491:ASN:N	2.36	0.41
1:A:69:ILE:HG13	1:A:70:GLN:N	2.36	0.41
1:B:230:PHE:CD2	1:B:230:PHE:N	2.88	0.41
1:B:78:THR:HG23	1:B:259:SER:O	2.20	0.41
1:B:374:GLN:C	1:B:374:GLN:CD	2.78	0.41
1:C:13:VAL:HG12	1:C:14:GLN:N	2.35	0.41
1:C:79:ALA:HB3	1:C:195:THR:HA	2.02	0.41
1:C:331:LYS:HG2	1:C:461:TYR:CE2	2.54	0.41
1:C:371:ALA:HB1	1:C:375:ASN:ND2	2.36	0.41
1:C:358:ASN:O	1:C:444:GLN:O	2.38	0.41
1:C:95:ARG:NH1	1:C:95:ARG:CG	2.67	0.41
1:D:217:GLU:H	1:D:217:GLU:HG2	1.46	0.41
1:B:186:THR:C	1:D:397:GLN:OE1	2.58	0.41
1:C:15:GLU:CD	1:D:423:LYS:HB2	2.40	0.41
1:D:507:TYR:CG	1:D:508:GLY:HA3	2.55	0.41
1:D:52:PHE:HE1	1:D:267:PRO:O	2.03	0.41
1:E:148:PRO:HD3	1:E:185:TYR:CE1	2.56	0.41
1:E:86:ILE:HD11	1:E:194:THR:HG1	1.75	0.41
1:F:89:ASN:HD21	1:G:403:SER:N	2.18	0.41
1:G:374:GLN:CG	1:G:375:ASN:N	2.83	0.41
1:H:341:LEU:HD13	1:H:345:ILE:HG23	2.02	0.41
1:I:1:MET:HE2	1:I:1:MET:HB3	1.90	0.41
1:I:207:VAL:CG2	1:I:232:TRP:HZ2	2.32	0.41
1:J:58:SER:OG	1:J:59:ALA:O	2.37	0.41
1:K:89:ASN:N	1:K:89:ASN:ND2	2.58	0.41
1:L:250:ASP:OD2	1:L:251:VAL:O	2.39	0.41
1:L:279:ASN:OD1	1:L:279:ASN:O	2.39	0.41
1:L:339:GLN:CG	1:L:339:GLN:O	2.68	0.41
1:L:449:ASN:C	1:L:449:ASN:ND2	2.73	0.41
1:L:9:ASN:ND2	1:L:9:ASN:H	2.19	0.41
1:M:505:ARG:O	1:M:506:ILE:C	2.56	0.41
2:N:291:ASN:ND2	2:N:291:ASN:C	2.74	0.41
1:A:77:PHE:HA	1:A:260:MET:HB3	2.03	0.41
1:A:320:ASP:OD1	1:F:442:GLN:NE2	2.44	0.41
1:B:79:ALA:CB	1:B:195:THR:HA	2.46	0.41
1:B:430:ASP:OD2	1:B:431:GLU:N	2.53	0.41
1:C:288:TYR:HB3	1:C:289:PRO:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1:MET:SD	1:D:10:VAL:CA	3.08	0.41
1:D:86:ILE:HA	1:D:86:ILE:HD13	1.88	0.41
1:F:246:ASP:C	1:F:246:ASP:OD1	2.57	0.41
1:G:6:ILE:O	1:G:6:ILE:CD1	2.55	0.41
1:I:379:PHE:CD1	1:I:380:SER:N	2.86	0.41
1:J:389:TRP:O	1:J:389:TRP:CG	2.73	0.41
1:K:161:ASP:HA	1:K:162:GLY:HA2	1.73	0.41
1:K:236:ASN:C	1:K:236:ASN:ND2	2.74	0.41
1:L:286:ILE:HD13	1:L:287:THR:N	2.34	0.41
1:L:393:ASN:C	1:L:393:ASN:HD22	2.22	0.41
1:L:432:ALA:HB3	1:L:435:VAL:HG23	2.01	0.41
1:L:499:SER:O	1:L:501:ASN:N	2.53	0.41
1:M:158:ARG:HB2	1:M:246:ASP:CB	2.48	0.41
2:N:33:PRO:HB2	2:N:35:ILE:HD12	2.02	0.41
2:N:96:SER:HB3	2:N:154:ILE:CD1	2.50	0.41
1:A:380:SER:HB2	1:A:383:ASN:HB2	2.02	0.41
1:B:40:PHE:CD2	1:B:40:PHE:N	2.88	0.41
1:C:101:PHE:HE1	1:C:149:SER:OG	2.02	0.41
1:C:397:GLN:HE21	1:C:407:THR:CG2	2.34	0.41
1:D:73:TYR:CD2	1:D:75:ILE:CD1	3.01	0.41
1:E:134:HIS:CD2	1:E:134:HIS:N	2.88	0.41
1:E:158:ARG:HB3	1:E:158:ARG:HH11	1.80	0.41
1:F:351:PHE:CD1	1:F:414:GLY:HA3	2.56	0.41
1:G:1:MET:CB	1:G:2:SER:CA	2.76	0.41
1:G:353:GLN:HB2	1:G:393:ASN:HA	2.02	0.41
1:G:378:ASP:C	1:G:381:VAL:HG12	2.40	0.41
1:H:146:MET:HB3	1:I:374:GLN:OE1	2.21	0.41
1:H:246:ASP:HA	1:H:249:ASN:HD22	1.83	0.41
1:H:155:GLN:H	1:H:412:LEU:HA	1.86	0.41
1:I:143:TRP:CZ3	1:I:216:GLY:HA2	2.56	0.41
1:J:107:THR:O	1:J:124:ALA:HB2	2.20	0.41
1:J:318:GLN:HE21	1:J:318:GLN:N	2.18	0.41
1:J:322:ILE:CG2	1:J:431:GLU:OE1	2.69	0.41
1:J:403:SER:HA	1:J:404:GLY:HA2	1.70	0.41
1:K:235:ASN:ND2	1:K:237:ASN:H	2.19	0.41
1:K:397:GLN:NE2	1:M:186:THR:HA	2.36	0.41
1:M:111:ASN:HB2	1:M:120:ASN:HB2	2.03	0.41
1:M:153:ASN:ND2	1:M:154:TYR:CD2	2.89	0.41
1:M:336:VAL:HA	1:M:339:GLN:NE2	2.33	0.41
1:M:339:GLN:H	1:M:339:GLN:HG2	1.74	0.41
1:M:372:SER:O	1:M:375:ASN:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:385:TYR:O	1:M:386:ASN:CG	2.59	0.41
1:A:358:ASN:ND2	1:A:444:GLN:HB3	2.36	0.41
1:B:297:THR:OG1	1:B:298:THR:N	2.54	0.41
1:B:324:ARG:CG	1:B:324:ARG:NH1	2.61	0.41
1:C:451:ASN:HD22	1:C:451:ASN:H	1.68	0.41
1:D:361:TRP:CZ3	1:D:427:LEU:CD1	3.04	0.41
1:E:277:ARG:HB3	1:E:279:ASN:ND2	2.36	0.41
1:E:326:LEU:HD21	1:E:441:LEU:HD11	2.03	0.41
1:E:472:ILE:O	1:E:472:ILE:HG13	2.21	0.41
1:F:280:ILE:HA	1:F:281:PRO:HD3	1.92	0.41
1:F:396:THR:HG21	1:F:412:LEU:CD2	2.51	0.41
1:F:41:PRO:CB	1:F:266:GLN:HE21	2.34	0.41
1:F:436:ILE:HG13	1:F:436:ILE:O	2.20	0.41
1:F:62:VAL:O	1:F:62:VAL:CG2	2.68	0.41
1:G:209:LEU:C	1:G:209:LEU:CD2	2.54	0.41
1:G:372:SER:O	1:G:375:ASN:HB3	2.21	0.41
1:G:133:TYR:O	1:G:384:GLY:O	2.39	0.41
1:H:262:ILE:HG22	1:H:263:SER:H	1.85	0.41
1:H:345:ILE:CD1	1:H:346:THR:CG2	2.98	0.41
1:H:412:LEU:HD12	1:H:412:LEU:H	1.84	0.41
1:I:357:LEU:O	1:I:357:LEU:HD12	2.18	0.41
1:K:379:PHE:HD1	1:K:379:PHE:C	2.24	0.41
1:K:397:GLN:NE2	1:K:397:GLN:N	2.69	0.41
1:K:412:LEU:HA	1:K:412:LEU:HD22	1.88	0.41
1:K:427:LEU:HA	1:K:427:LEU:HD12	1.97	0.41
1:K:489:VAL:O	1:K:490:LEU:C	2.59	0.41
1:L:102:PRO:HG2	1:L:203:LEU:HD22	2.02	0.41
2:N:185:ARG:N	2:N:225:VAL:HG13	2.36	0.41
2:N:202:PHE:HB3	2:N:259:TRP:CE2	2.55	0.41
2:N:263:LYS:O	2:N:264:THR:HG22	2.21	0.41
2:N:339:VAL:HB	2:N:351:ILE:CG2	2.50	0.41
1:A:132:ARG:HH11	1:A:132:ARG:HG3	1.76	0.41
1:A:432:ALA:HB3	1:A:435:VAL:HG13	2.03	0.41
1:B:187:MET:CE	1:B:242:TRP:CH2	3.04	0.41
1:C:68:PHE:HB3	1:C:206:GLN:HB2	2.03	0.41
1:C:364:GLN:OE1	1:D:34:GLN:NE2	2.53	0.41
1:C:487:GLU:H	1:C:487:GLU:HG2	1.56	0.41
1:C:495:THR:OG1	1:C:497:GLY:CA	2.69	0.41
1:E:301:GLN:HB2	1:E:302:ASN:ND2	2.15	0.41
1:E:258:GLY:HA3	1:E:341:LEU:HD11	1.80	0.41
1:F:207:VAL:HG22	1:F:232:TRP:CZ2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:496:HIS:CE1	1:G:22:ASN:HB3	2.55	0.41
1:H:122:GLU:C	1:H:122:GLU:CD	2.79	0.41
1:I:132:ARG:NH1	1:I:132:ARG:CG	2.76	0.41
1:I:27:VAL:HG13	1:I:27:VAL:O	2.20	0.41
1:I:475:THR:O	1:I:475:THR:CG2	2.69	0.41
1:J:73:TYR:CD1	1:J:203:LEU:HD22	2.55	0.41
1:J:90:LEU:HD22	1:J:90:LEU:H	1.86	0.41
1:K:497:GLY:O	1:K:498:VAL:O	2.39	0.41
1:K:57:PRO:O	1:K:58:SER:OG	2.36	0.41
1:L:374:GLN:HA	1:L:389:TRP:CZ3	2.55	0.41
1:L:432:ALA:HB2	1:L:489:VAL:HG11	2.02	0.41
1:L:498:VAL:HG23	1:L:499:SER:N	2.35	0.41
1:M:140:LYS:HB2	1:M:140:LYS:HE3	1.79	0.41
2:N:213:TYR:C	2:N:213:TYR:CD1	2.92	0.41
1:A:1:MET:HE2	1:A:9:ASN:C	2.41	0.41
1:C:136:PRO:HD2	1:C:139:VAL:HB	2.03	0.41
1:C:313:LYS:C	1:C:313:LYS:HZ2	2.19	0.41
1:C:503:LEU:HD22	1:C:503:LEU:C	2.25	0.41
1:C:99:ARG:NH1	1:C:99:ARG:CG	2.67	0.41
1:D:423:LYS:C	1:D:424:ASP:OD1	2.58	0.41
1:E:2:SER:C	1:E:3:ASN:HD22	2.24	0.41
1:E:56:PRO:O	1:E:56:PRO:HD2	2.21	0.41
1:E:64:ASP:OD1	1:E:64:ASP:C	2.60	0.41
1:F:101:PHE:N	1:F:101:PHE:CD2	2.89	0.41
1:E:423:LYS:CG	1:F:15:GLU:HB2	2.51	0.41
1:A:320:ASP:CG	1:F:442:GLN:HE22	2.23	0.41
1:G:192:ASN:HD22	1:G:193:THR:N	2.16	0.41
1:G:247:ILE:HG23	1:G:248:THR:N	2.35	0.41
1:G:381:VAL:O	1:G:381:VAL:HG22	2.17	0.41
1:H:319:LEU:HD23	1:H:323:PRO:HD3	2.03	0.41
1:I:313:LYS:HB2	1:I:313:LYS:HE2	1.46	0.41
1:I:328:LEU:O	1:I:329:PHE:HB3	2.20	0.41
1:I:356:ASN:O	1:I:446:THR:CG2	2.69	0.41
1:I:69:ILE:HG12	1:I:70:GLN:N	2.36	0.41
1:J:120:ASN:O	1:J:120:ASN:ND2	2.53	0.41
1:K:114:ILE:CG2	1:K:472:ILE:HD11	2.51	0.41
1:K:439:PHE:N	1:K:439:PHE:HD2	2.13	0.41
1:K:4:SER:HB3	1:M:483:VAL:HG23	2.02	0.41
1:A:261:ASN:N	1:A:261:ASN:HD22	2.19	0.41
1:C:32:GLY:HA2	1:C:277:ARG:HG2	2.03	0.41
1:C:310:SER:OG	1:C:312:PHE:CZ	2.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:316:VAL:CG1	1:C:317:VAL:N	2.84	0.41
1:D:252:SER:N	1:D:253:GLY:CA	2.82	0.41
1:D:372:SER:O	1:D:375:ASN:CB	2.69	0.41
1:E:339:GLN:C	1:E:340:ASN:CG	2.71	0.41
1:A:438:ASN:HB3	1:F:316:VAL:HG21	2.03	0.41
1:G:285:ARG:HB3	1:G:473:SER:HB2	2.03	0.41
1:C:41:PRO:HD2	1:G:44:SER:O	2.21	0.41
1:H:106:ILE:CD1	1:H:241:ILE:CD1	2.98	0.41
1:J:161:ASP:HA	1:J:162:GLY:HA2	1.66	0.41
1:J:99:ARG:HH21	1:J:240:ARG:NE	2.17	0.41
1:K:238:LEU:HD13	1:K:238:LEU:HA	1.76	0.41
1:K:329:PHE:CE2	1:K:461:TYR:CD2	3.09	0.41
1:L:99:ARG:HD3	1:L:243:SER:CB	2.35	0.41
1:M:137:LEU:HA	1:M:137:LEU:HD23	1.89	0.41
1:M:70:GLN:O	1:M:70:GLN:HG3	2.21	0.41
1:A:100:ALA:HB2	1:A:182:ARG:HD3	2.02	0.40
1:A:137:LEU:HD23	1:A:137:LEU:HA	1.68	0.40
1:A:274:VAL:HG12	1:A:275:THR:N	2.36	0.40
1:B:107:THR:OG1	1:B:232:TRP:HD1	2.04	0.40
1:B:119:VAL:HG13	1:B:119:VAL:O	2.21	0.40
1:B:82:SER:C	1:B:84:ALA:H	2.25	0.40
1:C:20:LEU:O	1:C:24:ARG:NH2	2.54	0.40
1:E:109:THR:HG23	1:E:233:VAL:CG1	2.51	0.40
1:E:63:LEU:HD22	1:E:64:ASP:N	2.37	0.40
1:E:4:SER:O	1:E:6:ILE:O	2.39	0.40
1:F:124:ALA:O	1:F:125:GLN:HB2	2.21	0.40
1:F:350:VAL:HG23	1:F:351:PHE:N	2.35	0.40
1:G:360:THR:O	1:G:360:THR:OG1	2.30	0.40
1:I:1:MET:SD	1:I:10:VAL:CA	3.08	0.40
1:I:155:GLN:NE2	1:I:350:VAL:HG21	2.35	0.40
1:I:264:PHE:HA	1:I:265:GLN:NE2	2.35	0.40
1:H:1:MET:SD	1:I:26:TRP:HB3	2.61	0.40
1:I:338:TYR:HD2	1:I:338:TYR:HA	1.55	0.40
1:J:498:VAL:CG2	1:J:499:SER:CA	2.94	0.40
1:J:87:THR:HG22	1:J:88:GLU:CB	2.45	0.40
1:J:89:ASN:O	1:J:90:LEU:C	2.59	0.40
1:K:15:GLU:HG3	1:L:31:GLY:HA3	2.03	0.40
1:K:501:ASN:O	1:K:504:GLN:HG3	2.21	0.40
1:K:53:ILE:HG23	1:K:53:ILE:O	2.21	0.40
1:K:79:ALA:CB	1:K:195:THR:HA	2.51	0.40
1:L:228:LEU:HD23	1:L:228:LEU:HA	1.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:302:ASN:HD21	1:M:312:PHE:HE2	1.68	0.40
1:M:346:THR:HG22	1:M:347:THR:N	2.35	0.40
2:N:340:TYR:CD1	2:N:350:LEU:HA	2.56	0.40
1:B:352:LEU:HD13	1:B:352:LEU:N	2.36	0.40
1:B:463:VAL:HG13	1:B:464:ALA:N	2.36	0.40
1:C:251:VAL:HG23	1:C:252:SER:H	1.84	0.40
1:C:322:ILE:H	1:C:322:ILE:HG12	1.51	0.40
1:C:478:MET:CE	1:L:34:GLN:NE2	2.74	0.40
1:D:132:ARG:NH1	1:D:151:GLU:CG	2.77	0.40
1:D:247:ILE:O	1:D:250:ASP:OD2	2.39	0.40
1:B:11:VAL:HG23	1:D:27:VAL:HG22	2.04	0.40
1:D:322:ILE:HD12	1:D:432:ALA:O	2.20	0.40
1:E:209:LEU:HA	1:E:210:PRO:HD3	1.82	0.40
1:F:507:TYR:HD1	1:F:508:GLY:C	2.16	0.40
1:G:122:GLU:OE2	1:G:295:ARG:NH1	2.54	0.40
1:G:367:ILE:N	1:G:367:ILE:CD1	2.83	0.40
1:G:72:PRO:HB2	1:G:265:GLN:HB2	2.03	0.40
1:H:110:LEU:HD23	1:H:232:TRP:CE2	2.55	0.40
1:H:25:THR:HB	1:J:9:ASN:O	2.21	0.40
1:H:41:PRO:HB2	1:H:266:GLN:NE2	2.37	0.40
1:H:397:GLN:NE2	1:J:189:VAL:HB	2.36	0.40
1:H:491:ASN:ND2	1:H:491:ASN:N	2.68	0.40
1:I:20:LEU:HD13	1:J:286:ILE:HG13	2.03	0.40
1:I:314:SER:CB	1:I:443:VAL:N	2.63	0.40
1:I:379:PHE:C	1:I:379:PHE:CD1	2.94	0.40
1:J:399:PHE:HA	1:J:407:THR:HB	2.02	0.40
1:J:285:ARG:HB2	1:J:473:SER:OG	2.20	0.40
1:K:428:ARG:CG	1:K:428:ARG:HH11	2.28	0.40
2:N:83:THR:OG1	2:N:101:VAL:HG12	2.21	0.40
2:N:109:SER:HB3	2:N:110:PRO:C	2.37	0.40
2:N:74:PRO:O	2:N:75:TYR:CB	2.69	0.40
1:A:102:PRO:C	1:A:104:SER:H	2.24	0.40
1:A:137:LEU:HD22	1:A:137:LEU:C	2.42	0.40
1:A:315:ASN:N	1:A:315:ASN:ND2	2.69	0.40
1:A:6:ILE:H	1:A:6:ILE:HG13	1.53	0.40
1:C:140:LYS:HA	1:C:140:LYS:HD3	1.81	0.40
1:C:92:GLN:HE21	1:C:248:THR:CG2	2.23	0.40
1:D:16:PRO:O	1:D:18:LEU:N	2.54	0.40
1:D:503:LEU:O	1:D:506:ILE:CG1	2.66	0.40
1:D:82:SER:HB2	1:D:254:ASN:CG	2.41	0.40
1:E:305:ALA:HB2	1:E:455:THR:HG23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:77:PHE:HD2	1:F:77:PHE:H	1.70	0.40
1:G:143:TRP:C	1:G:145:SER:N	2.75	0.40
1:F:483:VAL:O	1:G:3:ASN:HB2	2.22	0.40
1:I:360:THR:O	1:I:441:LEU:HD22	2.21	0.40
1:J:100:ALA:HA	1:J:101:PHE:HA	1.89	0.40
1:K:147:GLN:NE2	1:K:206:GLN:HG2	2.37	0.40
1:K:238:LEU:CG	1:K:238:LEU:O	2.70	0.40
1:K:329:PHE:CB	1:K:416:ILE:HG22	2.52	0.40
1:L:101:PHE:CZ	1:L:131:SER:HB2	2.54	0.40
1:L:250:ASP:OD2	1:L:251:VAL:CA	2.66	0.40
1:M:209:LEU:CD1	1:M:210:PRO:CA	2.89	0.40
1:M:2:SER:CB	1:M:7:PRO:HB3	2.51	0.40
2:N:104:ASP:CB	2:N:107:LEU:CD1	2.99	0.40
2:N:370:LEU:CD1	2:N:371:SER:CA	2.89	0.40
1:A:258:GLY:HA2	1:A:259:SER:HA	1.78	0.40
1:A:32:GLY:HA3	1:A:275:THR:O	2.22	0.40
1:A:356:ASN:C	1:A:356:ASN:OD1	2.60	0.40
1:A:364:GLN:HE21	1:A:367:ILE:HD13	1.85	0.40
1:A:474:ASN:HB2	1:A:475:THR:HG22	2.03	0.40
1:B:330:VAL:HG23	1:B:445:MET:CE	2.51	0.40
1:C:100:ALA:O	1:C:128:HIS:HE1	2.04	0.40
1:C:291:PHE:N	1:C:291:PHE:HD1	2.19	0.40
1:C:396:THR:CG2	1:C:410:ILE:HB	2.46	0.40
1:C:489:VAL:O	1:C:492:ALA:HB2	2.22	0.40
1:C:505:ARG:O	1:C:507:TYR:N	2.47	0.40
1:C:84:ALA:HA	1:C:85:GLY:HA3	1.83	0.40
1:C:88:GLU:CA	1:C:88:GLU:OE1	2.69	0.40
1:D:313:LYS:HG2	1:D:313:LYS:H	1.74	0.40
1:E:79:ALA:CB	1:E:195:THR:HA	2.51	0.40
1:E:262:ILE:HD12	1:E:262:ILE:N	2.37	0.40
1:F:313:LYS:CG	1:F:442:GLN:OE1	2.69	0.40
1:G:385:TYR:O	1:G:386:ASN:ND2	2.55	0.40
1:G:49:GLN:HE22	1:G:51:ASN:ND2	2.20	0.40
1:H:111:ASN:C	1:H:111:ASN:OD1	2.59	0.40
1:H:428:ARG:HE	1:H:429:ASP:H	1.68	0.40
1:H:173:SER:HA	1:I:164:ASN:HB2	2.04	0.40
1:I:257:ILE:HG22	1:I:258:GLY:N	2.36	0.40
1:I:361:TRP:HA	1:I:361:TRP:HE3	1.81	0.40
1:A:36:THR:HG21	1:J:364:GLN:HA	2.02	0.40
1:K:127:ILE:HA	1:K:127:ILE:HD13	1.91	0.40
2:N:192:GLU:HG2	2:N:222:LEU:HD11	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:23:PRO:HB2	2:N:24:PHE:H	1.57	0.40
2:N:96:SER:HB3	2:N:154:ILE:HD11	2.03	0.40
1:A:20:LEU:HA	1:A:20:LEU:HD23	1.91	0.40
1:A:478:MET:HB2	1:A:478:MET:HE2	1.98	0.40
1:C:305:ALA:HB1	1:C:306:PRO:HA	2.03	0.40
1:C:505:ARG:C	1:C:507:TYR:H	2.23	0.40
1:D:255:SER:CB	1:D:257:ILE:CD1	2.92	0.40
1:D:39:PRO:HB3	1:D:270:TYR:CE1	2.56	0.40
1:D:408:LYS:HE2	1:D:408:LYS:H	1.85	0.40
1:E:40:PHE:CD2	1:E:54:CYS:HB3	2.57	0.40
1:F:421:LEU:HA	1:F:421:LEU:HD12	1.78	0.40
1:F:322:ILE:HG12	1:F:434:GLY:H	1.86	0.40
1:G:187:MET:O	1:G:187:MET:HG2	2.21	0.40
1:H:343:ASN:HA	1:H:343:ASN:HD22	1.62	0.40
1:H:395:VAL:HA	1:H:412:LEU:HD12	2.03	0.40
1:I:244:HIS:CE1	1:I:257:ILE:HD12	2.56	0.40
1:J:134:HIS:HD2	1:J:507:TYR:CD2	2.40	0.40
1:J:341:LEU:O	1:J:344:GLN:HG2	2.21	0.40
1:J:420:GLU:HB3	1:J:423:LYS:HB2	2.03	0.40
1:K:158:ARG:CG	1:K:158:ARG:HH11	2.34	0.40
1:K:1:MET:HA	1:M:483:VAL:O	2.22	0.40
1:K:65:ARG:HH11	1:K:213:LEU:HD23	1.84	0.40
1:K:229:THR:C	1:K:230:PHE:CD2	2.95	0.40
1:L:110:LEU:HD23	1:L:111:ASN:N	2.37	0.40
1:L:379:PHE:HD1	1:L:379:PHE:C	2.24	0.40
1:M:1:MET:SD	1:M:10:VAL:HB	2.61	0.40
1:M:260:MET:C	1:M:261:ASN:HD22	2.24	0.40
1:M:443:VAL:HG12	1:M:443:VAL:O	2.22	0.40
2:N:282:PHE:N	2:N:282:PHE:CD2	2.89	0.40
2:N:67:LEU:HD11	2:N:259:TRP:HB3	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	506/508 (100%)	430 (85%)	61 (12%)	15 (3%)	5	37
1	B	506/508 (100%)	456 (90%)	41 (8%)	9 (2%)	10	48
1	C	506/508 (100%)	433 (86%)	65 (13%)	8 (2%)	11	50
1	D	506/508 (100%)	442 (87%)	48 (10%)	16 (3%)	5	36
1	E	506/508 (100%)	443 (88%)	49 (10%)	14 (3%)	6	39
1	F	506/508 (100%)	431 (85%)	59 (12%)	16 (3%)	5	36
1	G	506/508 (100%)	447 (88%)	45 (9%)	14 (3%)	6	39
1	H	506/508 (100%)	436 (86%)	58 (12%)	12 (2%)	7	42
1	I	506/508 (100%)	424 (84%)	64 (13%)	18 (4%)	4	33
1	J	506/508 (100%)	434 (86%)	54 (11%)	18 (4%)	4	33
1	K	506/508 (100%)	436 (86%)	55 (11%)	15 (3%)	5	37
1	L	506/508 (100%)	449 (89%)	47 (9%)	10 (2%)	9	46
1	M	506/508 (100%)	439 (87%)	49 (10%)	18 (4%)	4	33
2	N	360/378 (95%)	280 (78%)	49 (14%)	31 (9%)	1	11
All	All	6938/6982 (99%)	5980 (86%)	744 (11%)	214 (3%)	8	37

All (214) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	86	ILE
1	A	173	SER
1	A	251	VAL
1	B	209	LEU
1	D	39	PRO
1	D	86	ILE
1	D	251	VAL
1	D	259	SER
1	F	86	ILE
1	F	250	ASP
1	G	2	SER
1	G	86	ILE
1	G	209	LEU
1	G	214	TRP
1	H	60	GLN
1	H	86	ILE

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Mol	Chain	Res	Type
1	H	402	VAL
1	I	34	GLN
1	I	173	SER
1	I	192	ASN
1	I	315	ASN
1	J	34	GLN
1	J	86	ILE
1	J	136	PRO
1	J	173	SER
1	J	219	ALA
1	J	253	GLY
1	J	402	VAL
1	J	413	GLU
1	J	499	SER
1	K	3	ASN
1	K	34	GLN
1	K	86	ILE
1	K	88	GLU
1	K	216	GLY
1	K	341	LEU
1	K	498	VAL
1	L	39	PRO
1	L	88	GLU
1	M	3	ASN
1	M	34	GLN
1	M	86	ILE
1	M	173	SER
1	M	302	ASN
1	M	476	SER
2	N	23	PRO
2	N	109	SER
2	N	120	VAL
2	N	121	THR
2	N	182	TYR
2	N	197	VAL
2	N	235	ASP
2	N	254	PRO
2	N	257	SER
2	N	274	ILE
1	A	340	ASN
1	B	218	GLN
1	C	34	GLN

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Mol	Chain	Res	Type
1	C	337	ILE
1	D	248	THR
1	D	267	PRO
1	D	462	ILE
1	E	60	GLN
1	F	39	PRO
1	F	88	GLU
1	F	102	PRO
1	F	144	MET
1	F	337	ILE
1	F	402	VAL
1	F	476	SER
1	G	267	PRO
1	G	363	ASN
1	H	210	PRO
1	H	340	ASN
1	I	3	ASN
1	I	39	PRO
1	I	253	GLY
1	I	310	SER
1	I	402	VAL
1	J	137	LEU
1	J	250	ASP
1	K	249	ASN
1	K	267	PRO
1	L	483	VAL
1	M	39	PRO
1	M	251	VAL
2	N	92	ASN
2	N	129	PRO
2	N	180	ALA
2	N	221	ILE
2	N	288	GLY
2	N	306	GLY
2	N	346	GLY
1	A	39	PRO
1	A	81	PRO
1	B	23	GLU
1	B	136	PRO
1	B	210	PRO
1	B	315	ASN
1	B	340	ASN

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Mol	Chain	Res	Type
1	C	484	ALA
1	E	253	GLY
1	E	337	ILE
1	E	438	ASN
1	F	368	LEU
1	G	144	MET
1	G	430	ASP
1	H	173	SER
1	H	458	PRO
1	I	5	ALA
1	I	102	PRO
1	I	251	VAL
1	I	337	ILE
1	I	340	ASN
1	J	135	THR
1	J	340	ASN
1	J	430	ASP
1	K	144	MET
1	L	250	ASP
1	L	340	ASN
1	M	136	PRO
1	M	340	ASN
1	M	434	GLY
2	N	118	PRO
2	N	135	ASP
2	N	214	ASN
2	N	219	ARG
1	A	254	ASN
1	A	368	LEU
1	B	34	GLN
1	C	458	PRO
1	D	16	PRO
1	D	102	PRO
1	D	212	PHE
1	D	384	GLY
1	E	3	ASN
1	E	88	GLU
1	E	458	PRO
1	F	91	LEU
1	F	238	LEU
1	F	430	ASP
1	G	88	GLU

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Mol	Chain	Res	Type
1	J	22	ASN
1	J	307	ASN
1	J	315	ASN
1	K	458	PRO
1	L	44	SER
1	L	60	GLN
1	L	458	PRO
1	M	88	GLU
2	N	30	GLY
2	N	158	VAL
2	N	284	ASN
1	A	386	ASN
1	A	413	GLU
1	B	58	SER
1	E	209	LEU
1	E	413	GLU
1	F	340	ASN
1	G	102	PRO
1	G	313	LYS
1	G	337	ILE
1	H	144	MET
1	I	209	LEU
1	I	438	ASN
1	J	39	PRO
1	L	195	THR
1	M	102	PRO
1	M	195	THR
1	M	210	PRO
2	N	156	ALA
1	A	209	LEU
1	A	337	ILE
1	D	3	ASN
1	E	144	MET
1	E	394	GLY
1	G	323	PRO
1	H	365	GLN
1	H	413	GLU
1	K	16	PRO
1	K	173	SER
1	K	281	PRO
1	M	348	PRO
2	N	75	TYR

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Mol	Chain	Res	Type
2	N	84	ILE
2	N	216	PRO
2	N	349	TYR
1	A	102	PRO
1	C	506	ILE
1	D	337	ILE
1	E	276	PRO
1	E	381	VAL
1	F	57	PRO
1	H	136	PRO
1	C	148	PRO
1	C	253	GLY
1	F	93	PRO
1	I	336	VAL
1	M	367	ILE
1	C	281	PRO
1	E	267	PRO
1	H	337	ILE
1	K	102	PRO
1	L	209	LEU
1	A	350	VAL
1	A	394	GLY
1	D	136	PRO
1	D	220	GLY
1	G	384	GLY
1	I	435	VAL
2	N	189	THR
1	D	93	PRO
1	M	317	VAL
2	N	76	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	447/447 (100%)	274 (61%)	173 (39%)	0 1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	447/447 (100%)	263 (59%)	184 (41%)	0	1
1	C	447/447 (100%)	266 (60%)	181 (40%)	0	1
1	D	447/447 (100%)	278 (62%)	169 (38%)	0	1
1	E	447/447 (100%)	284 (64%)	163 (36%)	0	1
1	F	447/447 (100%)	271 (61%)	176 (39%)	0	1
1	G	447/447 (100%)	280 (63%)	167 (37%)	0	1
1	H	447/447 (100%)	284 (64%)	163 (36%)	0	1
1	I	447/447 (100%)	266 (60%)	181 (40%)	0	1
1	J	447/447 (100%)	277 (62%)	170 (38%)	0	1
1	K	447/447 (100%)	276 (62%)	171 (38%)	0	1
1	L	447/447 (100%)	283 (63%)	164 (37%)	0	1
1	M	447/447 (100%)	274 (61%)	173 (39%)	0	1
2	N	328/344 (95%)	212 (65%)	116 (35%)	0	1
All	All	6139/6155 (100%)	3788 (62%)	2351 (38%)	1	1

All (2351) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ASN
1	A	6	ILE
1	A	10	VAL
1	A	18	LEU
1	A	19	GLU
1	A	20	LEU
1	A	21	ASN
1	A	22	ASN
1	A	23	GLU
1	A	28	VAL
1	A	30	LYS
1	A	42	SER
1	A	45	PHE
1	A	48	ASN
1	A	54	CYS
1	A	55	ASN
1	A	58	SER
1	A	60	GLN
1	A	63	LEU

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Mol	Chain	Res	Type
1	A	64	ASP
1	A	69	ILE
1	A	70	GLN
1	A	71	VAL
1	A	76	THR
1	A	78	THR
1	A	83	HIS
1	A	86	ILE
1	A	87	THR
1	A	88	GLU
1	A	95	ARG
1	A	99	ARG
1	A	103	ILE
1	A	106	ILE
1	A	108	ASN
1	A	109	THR
1	A	110	LEU
1	A	113	THR
1	A	114	ILE
1	A	117	PHE
1	A	120	ASN
1	A	121	ILE
1	A	122	GLU
1	A	123	LEU
1	A	127	ILE
1	A	130	LEU
1	A	131	SER
1	A	132	ARG
1	A	133	TYR
1	A	134	HIS
1	A	135	THR
1	A	137	LEU
1	A	138	LYS
1	A	144	MET
1	A	146	MET
1	A	153	ASN
1	A	156	SER
1	A	158	ARG
1	A	159	ASP
1	A	165	ASN
1	A	168	LEU
1	A	172	THR

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Mol	Chain	Res	Type
1	A	179	GLU
1	A	180	LEU
1	A	184	SER
1	A	186	THR
1	A	187	MET
1	A	188	ASN
1	A	190	VAL
1	A	192	ASN
1	A	193	THR
1	A	194	THR
1	A	198	ARG
1	A	203	LEU
1	A	205	GLU
1	A	209	LEU
1	A	217	GLU
1	A	222	LEU
1	A	224	ASN
1	A	225	LEU
1	A	227	SER
1	A	228	LEU
1	A	229	THR
1	A	234	LEU
1	A	237	ASN
1	A	238	LEU
1	A	240	ARG
1	A	249	ASN
1	A	250	ASP
1	A	254	ASN
1	A	260	MET
1	A	261	ASN
1	A	262	ILE
1	A	265	GLN
1	A	271	LEU
1	A	280	ILE
1	A	282	ILE
1	A	285	ARG
1	A	286	ILE
1	A	290	TYR
1	A	291	PHE
1	A	292	LYS
1	A	293	LEU
1	A	295	ARG

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Mol	Chain	Res	Type
1	A	297	THR
1	A	302	ASN
1	A	303	THR
1	A	313	LYS
1	A	314	SER
1	A	315	ASN
1	A	319	LEU
1	A	320	ASP
1	A	322	ILE
1	A	325	LYS
1	A	326	LEU
1	A	327	TYR
1	A	328	LEU
1	A	331	LYS
1	A	337	ILE
1	A	341	LEU
1	A	342	ASN
1	A	343	ASN
1	A	346	THR
1	A	349	ASP
1	A	350	VAL
1	A	351	PHE
1	A	356	ASN
1	A	357	LEU
1	A	358	ASN
1	A	360	THR
1	A	362	ASN
1	A	363	ASN
1	A	364	GLN
1	A	367	ILE
1	A	382	GLN
1	A	386	ASN
1	A	388	THR
1	A	393	ASN
1	A	395	VAL
1	A	396	THR
1	A	399	PHE
1	A	405	GLN
1	A	407	THR
1	A	410	ILE
1	A	412	LEU
1	A	413	GLU

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Mol	Chain	Res	Type
1	A	416	ILE
1	A	418	CYS
1	A	419	LEU
1	A	420	GLU
1	A	421	LEU
1	A	423	LYS
1	A	424	ASP
1	A	428	ARG
1	A	436	ILE
1	A	439	PHE
1	A	442	GLN
1	A	447	VAL
1	A	449	ASN
1	A	452	GLN
1	A	453	TYR
1	A	455	THR
1	A	459	ASP
1	A	460	MET
1	A	469	THR
1	A	474	ASN
1	A	478	MET
1	A	481	ILE
1	A	483	VAL
1	A	487	GLU
1	A	494	ILE
1	A	499	SER
1	A	501	ASN
1	A	506	ILE
1	B	1	MET
1	B	2	SER
1	B	3	ASN
1	B	6	ILE
1	B	8	LEU
1	B	11	VAL
1	B	17	ARG
1	B	18	LEU
1	B	19	GLU
1	B	21	ASN
1	B	22	ASN
1	B	23	GLU
1	B	29	VAL
1	B	30	LYS

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Mol	Chain	Res	Type
1	B	33	GLN
1	B	42	SER
1	B	43	THR
1	B	54	CYS
1	B	63	LEU
1	B	64	ASP
1	B	65	ARG
1	B	66	LEU
1	B	69	ILE
1	B	70	GLN
1	B	71	VAL
1	B	73	TYR
1	B	78	THR
1	B	80	ASN
1	B	83	HIS
1	B	86	ILE
1	B	87	THR
1	B	88	GLU
1	B	89	ASN
1	B	90	LEU
1	B	91	LEU
1	B	95	ARG
1	B	96	ASP
1	B	98	PHE
1	B	99	ARG
1	B	106	ILE
1	B	107	THR
1	B	108	ASN
1	B	109	THR
1	B	110	LEU
1	B	113	THR
1	B	122	GLU
1	B	123	LEU
1	B	127	ILE
1	B	131	SER
1	B	133	TYR
1	B	134	HIS
1	B	137	LEU
1	B	138	LYS
1	B	140	LYS
1	B	159	ASP
1	B	161	ASP

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Mol	Chain	Res	Type
1	B	164	ASN
1	B	165	ASN
1	B	166	ASN
1	B	171	PHE
1	B	179	GLU
1	B	180	LEU
1	B	188	ASN
1	B	191	THR
1	B	192	ASN
1	B	194	THR
1	B	196	THR
1	B	198	ARG
1	B	200	THR
1	B	203	LEU
1	B	209	LEU
1	B	212	PHE
1	B	213	LEU
1	B	224	ASN
1	B	225	LEU
1	B	227	SER
1	B	228	LEU
1	B	229	THR
1	B	233	VAL
1	B	234	LEU
1	B	236	ASN
1	B	238	LEU
1	B	243	SER
1	B	247	ILE
1	B	248	THR
1	B	249	ASN
1	B	251	VAL
1	B	257	ILE
1	B	262	ILE
1	B	263	SER
1	B	265	GLN
1	B	266	GLN
1	B	268	SER
1	B	271	LEU
1	B	275	THR
1	B	279	ASN
1	B	280	ILE
1	B	282	ILE

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Mol	Chain	Res	Type
1	B	285	ARG
1	B	287	THR
1	B	292	LYS
1	B	293	LEU
1	B	295	ARG
1	B	297	THR
1	B	301	GLN
1	B	303	THR
1	B	311	THR
1	B	313	LYS
1	B	314	SER
1	B	315	ASN
1	B	318	GLN
1	B	319	LEU
1	B	321	SER
1	B	322	ILE
1	B	324	ARG
1	B	328	LEU
1	B	332	GLN
1	B	336	VAL
1	B	337	ILE
1	B	339	GLN
1	B	346	THR
1	B	349	ASP
1	B	350	VAL
1	B	351	PHE
1	B	352	LEU
1	B	353	GLN
1	B	356	ASN
1	B	357	LEU
1	B	358	ASN
1	B	359	LEU
1	B	360	THR
1	B	362	ASN
1	B	365	GLN
1	B	374	GLN
1	B	381	VAL
1	B	383	ASN
1	B	386	ASN
1	B	387	LYS
1	B	388	THR
1	B	393	ASN

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Mol	Chain	Res	Type
1	B	395	VAL
1	B	396	THR
1	B	397	GLN
1	B	399	PHE
1	B	400	ASN
1	B	403	SER
1	B	408	LYS
1	B	410	ILE
1	B	416	ILE
1	B	418	CYS
1	B	419	LEU
1	B	423	LYS
1	B	425	VAL
1	B	427	LEU
1	B	430	ASP
1	B	436	ILE
1	B	441	LEU
1	B	444	GLN
1	B	446	THR
1	B	447	VAL
1	B	448	THR
1	B	449	ASN
1	B	451	ASN
1	B	452	GLN
1	B	454	VAL
1	B	455	THR
1	B	459	ASP
1	B	461	TYR
1	B	465	VAL
1	B	467	ASP
1	B	469	THR
1	B	470	LEU
1	B	473	SER
1	B	474	ASN
1	B	475	THR
1	B	483	VAL
1	B	485	SER
1	B	490	LEU
1	B	493	ARG
1	B	494	ILE
1	B	501	ASN
1	B	505	ARG

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Mol	Chain	Res	Type
1	B	506	ILE
1	B	507	TYR
1	C	6	ILE
1	C	10	VAL
1	C	11	VAL
1	C	18	LEU
1	C	19	GLU
1	C	20	LEU
1	C	21	ASN
1	C	22	ASN
1	C	23	GLU
1	C	24	ARG
1	C	28	VAL
1	C	29	VAL
1	C	30	LYS
1	C	43	THR
1	C	49	GLN
1	C	52	PHE
1	C	53	ILE
1	C	58	SER
1	C	60	GLN
1	C	63	LEU
1	C	64	ASP
1	C	66	LEU
1	C	69	ILE
1	C	70	GLN
1	C	71	VAL
1	C	74	ASP
1	C	76	THR
1	C	77	PHE
1	C	83	HIS
1	C	86	ILE
1	C	87	THR
1	C	88	GLU
1	C	91	LEU
1	C	95	ARG
1	C	96	ASP
1	C	99	ARG
1	C	101	PHE
1	C	107	THR
1	C	109	THR
1	C	113	THR

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Mol	Chain	Res	Type
1	C	120	ASN
1	C	121	ILE
1	C	122	GLU
1	C	123	LEU
1	C	125	GLN
1	C	127	ILE
1	C	131	SER
1	C	132	ARG
1	C	133	TYR
1	C	139	VAL
1	C	140	LYS
1	C	147	GLN
1	C	156	SER
1	C	158	ARG
1	C	159	ASP
1	C	161	ASP
1	C	165	ASN
1	C	166	ASN
1	C	168	LEU
1	C	172	THR
1	C	173	SER
1	C	177	LEU
1	C	180	LEU
1	C	187	MET
1	C	188	ASN
1	C	189	VAL
1	C	191	THR
1	C	192	ASN
1	C	193	THR
1	C	194	THR
1	C	196	THR
1	C	198	ARG
1	C	202	VAL
1	C	205	GLU
1	C	206	GLN
1	C	207	VAL
1	C	209	LEU
1	C	213	LEU
1	C	217	GLU
1	C	224	ASN
1	C	225	LEU
1	C	226	THR

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Mol	Chain	Res	Type
1	C	231	ASN
1	C	233	VAL
1	C	236	ASN
1	C	247	ILE
1	C	249	ASN
1	C	256	THR
1	C	260	MET
1	C	275	THR
1	C	277	ARG
1	C	278	LEU
1	C	282	ILE
1	C	286	ILE
1	C	287	THR
1	C	295	ARG
1	C	297	THR
1	C	299	GLN
1	C	300	PHE
1	C	302	ASN
1	C	303	THR
1	C	304	LEU
1	C	309	SER
1	C	311	THR
1	C	313	LYS
1	C	314	SER
1	C	320	ASP
1	C	322	ILE
1	C	324	ARG
1	C	325	LYS
1	C	326	LEU
1	C	328	LEU
1	C	332	GLN
1	C	337	ILE
1	C	341	LEU
1	C	342	ASN
1	C	343	ASN
1	C	344	GLN
1	C	345	ILE
1	C	346	THR
1	C	350	VAL
1	C	351	PHE
1	C	352	LEU
1	C	357	LEU

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Mol	Chain	Res	Type
1	C	360	THR
1	C	362	ASN
1	C	365	GLN
1	C	367	ILE
1	C	375	ASN
1	C	377	TYR
1	C	379	PHE
1	C	381	VAL
1	C	382	GLN
1	C	386	ASN
1	C	387	LYS
1	C	388	THR
1	C	391	GLU
1	C	393	ASN
1	C	395	VAL
1	C	396	THR
1	C	399	PHE
1	C	407	THR
1	C	408	LYS
1	C	412	LEU
1	C	418	CYS
1	C	419	LEU
1	C	427	LEU
1	C	430	ASP
1	C	433	GLU
1	C	435	VAL
1	C	436	ILE
1	C	438	ASN
1	C	446	THR
1	C	448	THR
1	C	449	ASN
1	C	451	ASN
1	C	457	THR
1	C	459	ASP
1	C	460	MET
1	C	465	VAL
1	C	469	THR
1	C	470	LEU
1	C	474	ASN
1	C	475	THR
1	C	476	SER
1	C	478	MET

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Mol	Chain	Res	Type
1	C	485	SER
1	C	486	LYS
1	C	487	GLU
1	C	488	GLU
1	C	489	VAL
1	C	490	LEU
1	C	493	ARG
1	C	494	ILE
1	C	495	THR
1	C	501	ASN
1	C	502	GLU
1	C	503	LEU
1	C	504	GLN
1	C	506	ILE
1	C	507	TYR
1	D	2	SER
1	D	3	ASN
1	D	6	ILE
1	D	10	VAL
1	D	17	ARG
1	D	18	LEU
1	D	19	GLU
1	D	20	LEU
1	D	21	ASN
1	D	22	ASN
1	D	23	GLU
1	D	24	ARG
1	D	28	VAL
1	D	29	VAL
1	D	30	LYS
1	D	33	GLN
1	D	36	THR
1	D	42	SER
1	D	43	THR
1	D	55	ASN
1	D	60	GLN
1	D	61	THR
1	D	63	LEU
1	D	64	ASP
1	D	65	ARG
1	D	69	ILE
1	D	70	GLN

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Mol	Chain	Res	Type
1	D	71	VAL
1	D	76	THR
1	D	78	THR
1	D	80	ASN
1	D	86	ILE
1	D	89	ASN
1	D	95	ARG
1	D	106	ILE
1	D	108	ASN
1	D	109	THR
1	D	110	LEU
1	D	117	PHE
1	D	120	ASN
1	D	121	ILE
1	D	132	ARG
1	D	133	TYR
1	D	134	HIS
1	D	144	MET
1	D	147	GLN
1	D	151	GLU
1	D	159	ASP
1	D	161	ASP
1	D	168	LEU
1	D	171	PHE
1	D	180	LEU
1	D	186	THR
1	D	187	MET
1	D	188	ASN
1	D	193	THR
1	D	198	ARG
1	D	199	ILE
1	D	203	LEU
1	D	208	PHE
1	D	215	ASP
1	D	217	GLU
1	D	218	GLN
1	D	224	ASN
1	D	225	LEU
1	D	227	SER
1	D	228	LEU
1	D	229	THR
1	D	231	ASN

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Mol	Chain	Res	Type
1	D	232	TRP
1	D	233	VAL
1	D	234	LEU
1	D	238	LEU
1	D	240	ARG
1	D	242	TRP
1	D	245	SER
1	D	246	ASP
1	D	247	ILE
1	D	249	ASN
1	D	250	ASP
1	D	251	VAL
1	D	252	SER
1	D	256	THR
1	D	257	ILE
1	D	261	ASN
1	D	262	ILE
1	D	265	GLN
1	D	266	GLN
1	D	268	SER
1	D	271	LEU
1	D	275	THR
1	D	286	ILE
1	D	287	THR
1	D	290	TYR
1	D	293	LEU
1	D	297	THR
1	D	304	LEU
1	D	313	LYS
1	D	319	LEU
1	D	321	SER
1	D	324	ARG
1	D	328	LEU
1	D	332	GLN
1	D	337	ILE
1	D	338	TYR
1	D	340	ASN
1	D	341	LEU
1	D	342	ASN
1	D	343	ASN
1	D	344	GLN
1	D	345	ILE

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Mol	Chain	Res	Type
1	D	347	THR
1	D	350	VAL
1	D	351	PHE
1	D	356	ASN
1	D	357	LEU
1	D	358	ASN
1	D	359	LEU
1	D	360	THR
1	D	361	TRP
1	D	365	GLN
1	D	368	LEU
1	D	372	SER
1	D	379	PHE
1	D	380	SER
1	D	381	VAL
1	D	386	ASN
1	D	387	LYS
1	D	388	THR
1	D	391	GLU
1	D	392	PHE
1	D	393	ASN
1	D	395	VAL
1	D	397	GLN
1	D	399	PHE
1	D	405	GLN
1	D	408	LYS
1	D	412	LEU
1	D	413	GLU
1	D	416	ILE
1	D	418	CYS
1	D	419	LEU
1	D	421	LEU
1	D	424	ASP
1	D	425	VAL
1	D	427	LEU
1	D	428	ARG
1	D	430	ASP
1	D	431	GLU
1	D	438	ASN
1	D	441	LEU
1	D	444	GLN
1	D	447	VAL

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Mol	Chain	Res	Type
1	D	448	THR
1	D	450	THR
1	D	452	GLN
1	D	457	THR
1	D	459	ASP
1	D	469	THR
1	D	470	LEU
1	D	473	SER
1	D	486	LYS
1	D	491	ASN
1	D	493	ARG
1	D	494	ILE
1	D	501	ASN
1	D	503	LEU
1	D	505	ARG
1	D	506	ILE
1	E	1	MET
1	E	3	ASN
1	E	10	VAL
1	E	11	VAL
1	E	18	LEU
1	E	19	GLU
1	E	20	LEU
1	E	21	ASN
1	E	28	VAL
1	E	38	TYR
1	E	45	PHE
1	E	49	GLN
1	E	53	ILE
1	E	54	CYS
1	E	58	SER
1	E	60	GLN
1	E	62	VAL
1	E	63	LEU
1	E	64	ASP
1	E	65	ARG
1	E	69	ILE
1	E	70	GLN
1	E	73	TYR
1	E	74	ASP
1	E	83	HIS
1	E	86	ILE

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Mol	Chain	Res	Type
1	E	90	LEU
1	E	96	ASP
1	E	99	ARG
1	E	101	PHE
1	E	106	ILE
1	E	108	ASN
1	E	109	THR
1	E	113	THR
1	E	114	ILE
1	E	119	VAL
1	E	120	ASN
1	E	131	SER
1	E	134	HIS
1	E	138	LYS
1	E	144	MET
1	E	147	GLN
1	E	151	GLU
1	E	153	ASN
1	E	158	ARG
1	E	159	ASP
1	E	165	ASN
1	E	168	LEU
1	E	170	VAL
1	E	172	THR
1	E	177	LEU
1	E	180	LEU
1	E	182	ARG
1	E	185	TYR
1	E	186	THR
1	E	187	MET
1	E	190	VAL
1	E	193	THR
1	E	202	VAL
1	E	203	LEU
1	E	209	LEU
1	E	215	ASP
1	E	217	GLU
1	E	224	ASN
1	E	226	THR
1	E	229	THR
1	E	231	ASN
1	E	240	ARG

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Mol	Chain	Res	Type
1	E	246	ASP
1	E	247	ILE
1	E	248	THR
1	E	250	ASP
1	E	251	VAL
1	E	254	ASN
1	E	256	THR
1	E	257	ILE
1	E	261	ASN
1	E	265	GLN
1	E	266	GLN
1	E	271	LEU
1	E	275	THR
1	E	278	LEU
1	E	279	ASN
1	E	282	ILE
1	E	285	ARG
1	E	286	ILE
1	E	287	THR
1	E	290	TYR
1	E	293	LEU
1	E	294	SER
1	E	297	THR
1	E	298	THR
1	E	299	GLN
1	E	304	LEU
1	E	314	SER
1	E	319	LEU
1	E	321	SER
1	E	322	ILE
1	E	325	LYS
1	E	326	LEU
1	E	332	GLN
1	E	333	SER
1	E	337	ILE
1	E	339	GLN
1	E	340	ASN
1	E	341	LEU
1	E	342	ASN
1	E	344	GLN
1	E	346	THR
1	E	349	ASP

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Mol	Chain	Res	Type
1	E	350	VAL
1	E	351	PHE
1	E	352	LEU
1	E	353	GLN
1	E	355	ASN
1	E	357	LEU
1	E	360	THR
1	E	361	TRP
1	E	362	ASN
1	E	372	SER
1	E	374	GLN
1	E	381	VAL
1	E	386	ASN
1	E	392	PHE
1	E	393	ASN
1	E	395	VAL
1	E	396	THR
1	E	398	GLN
1	E	399	PHE
1	E	405	GLN
1	E	407	THR
1	E	413	GLU
1	E	416	ILE
1	E	419	LEU
1	E	423	LYS
1	E	424	ASP
1	E	425	VAL
1	E	427	LEU
1	E	428	ARG
1	E	431	GLU
1	E	433	GLU
1	E	435	VAL
1	E	438	ASN
1	E	439	PHE
1	E	441	LEU
1	E	445	MET
1	E	447	VAL
1	E	449	ASN
1	E	452	GLN
1	E	459	ASP
1	E	460	MET
1	E	465	VAL

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Mol	Chain	Res	Type
1	E	469	THR
1	E	471	VAL
1	E	473	SER
1	E	474	ASN
1	E	485	SER
1	E	489	VAL
1	E	493	ARG
1	E	498	VAL
1	E	499	SER
1	E	505	ARG
1	E	507	TYR
1	F	3	ASN
1	F	10	VAL
1	F	13	VAL
1	F	14	GLN
1	F	15	GLU
1	F	19	GLU
1	F	20	LEU
1	F	22	ASN
1	F	23	GLU
1	F	27	VAL
1	F	28	VAL
1	F	30	LYS
1	F	33	GLN
1	F	42	SER
1	F	43	THR
1	F	52	PHE
1	F	54	CYS
1	F	62	VAL
1	F	63	LEU
1	F	65	ARG
1	F	69	ILE
1	F	70	GLN
1	F	71	VAL
1	F	77	PHE
1	F	78	THR
1	F	80	ASN
1	F	83	HIS
1	F	86	ILE
1	F	87	THR
1	F	90	LEU
1	F	101	PHE

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Mol	Chain	Res	Type
1	F	103	ILE
1	F	106	ILE
1	F	107	THR
1	F	109	THR
1	F	110	LEU
1	F	113	THR
1	F	114	ILE
1	F	120	ASN
1	F	121	ILE
1	F	123	LEU
1	F	127	ILE
1	F	128	HIS
1	F	131	SER
1	F	133	TYR
1	F	134	HIS
1	F	138	LYS
1	F	146	MET
1	F	147	GLN
1	F	149	SER
1	F	150	PHE
1	F	151	GLU
1	F	153	ASN
1	F	159	ASP
1	F	164	ASN
1	F	165	ASN
1	F	168	LEU
1	F	172	THR
1	F	173	SER
1	F	177	LEU
1	F	180	LEU
1	F	186	THR
1	F	188	ASN
1	F	190	VAL
1	F	192	ASN
1	F	193	THR
1	F	194	THR
1	F	199	ILE
1	F	202	VAL
1	F	212	PHE
1	F	213	LEU
1	F	215	ASP
1	F	218	GLN

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Mol	Chain	Res	Type
1	F	224	ASN
1	F	225	LEU
1	F	228	LEU
1	F	229	THR
1	F	231	ASN
1	F	233	VAL
1	F	237	ASN
1	F	240	ARG
1	F	241	ILE
1	F	246	ASP
1	F	249	ASN
1	F	250	ASP
1	F	252	SER
1	F	257	ILE
1	F	259	SER
1	F	260	MET
1	F	261	ASN
1	F	262	ILE
1	F	265	GLN
1	F	275	THR
1	F	280	ILE
1	F	282	ILE
1	F	287	THR
1	F	290	TYR
1	F	295	ARG
1	F	296	TYR
1	F	297	THR
1	F	299	GLN
1	F	300	PHE
1	F	301	GLN
1	F	302	ASN
1	F	304	LEU
1	F	311	THR
1	F	312	PHE
1	F	315	ASN
1	F	319	LEU
1	F	322	ILE
1	F	324	ARG
1	F	325	LYS
1	F	326	LEU
1	F	327	TYR
1	F	328	LEU

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Mol	Chain	Res	Type
1	F	335	ASN
1	F	337	ILE
1	F	339	GLN
1	F	346	THR
1	F	351	PHE
1	F	353	GLN
1	F	356	ASN
1	F	357	LEU
1	F	358	ASN
1	F	360	THR
1	F	362	ASN
1	F	364	GLN
1	F	365	GLN
1	F	367	ILE
1	F	368	LEU
1	F	372	SER
1	F	383	ASN
1	F	393	ASN
1	F	403	SER
1	F	405	GLN
1	F	407	THR
1	F	408	LYS
1	F	409	VAL
1	F	410	ILE
1	F	412	LEU
1	F	416	ILE
1	F	418	CYS
1	F	419	LEU
1	F	421	LEU
1	F	423	LYS
1	F	427	LEU
1	F	430	ASP
1	F	436	ILE
1	F	439	PHE
1	F	441	LEU
1	F	442	GLN
1	F	443	VAL
1	F	444	GLN
1	F	447	VAL
1	F	448	THR
1	F	449	ASN
1	F	450	THR

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Mol	Chain	Res	Type
1	F	451	ASN
1	F	452	GLN
1	F	455	THR
1	F	456	VAL
1	F	457	THR
1	F	459	ASP
1	F	465	VAL
1	F	469	THR
1	F	470	LEU
1	F	473	SER
1	F	478	MET
1	F	481	ILE
1	F	490	LEU
1	F	491	ASN
1	F	493	ARG
1	F	494	ILE
1	F	501	ASN
1	F	506	ILE
1	F	507	TYR
1	G	1	MET
1	G	2	SER
1	G	6	ILE
1	G	8	LEU
1	G	9	ASN
1	G	10	VAL
1	G	11	VAL
1	G	13	VAL
1	G	18	LEU
1	G	19	GLU
1	G	21	ASN
1	G	22	ASN
1	G	28	VAL
1	G	29	VAL
1	G	30	LYS
1	G	33	GLN
1	G	34	GLN
1	G	46	SER
1	G	47	SER
1	G	48	ASN
1	G	49	GLN
1	G	52	PHE
1	G	55	ASN

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Mol	Chain	Res	Type
1	G	60	GLN
1	G	61	THR
1	G	63	LEU
1	G	64	ASP
1	G	65	ARG
1	G	66	LEU
1	G	69	ILE
1	G	83	HIS
1	G	88	GLU
1	G	89	ASN
1	G	90	LEU
1	G	91	LEU
1	G	99	ARG
1	G	101	PHE
1	G	105	SER
1	G	107	THR
1	G	108	ASN
1	G	110	LEU
1	G	111	ASN
1	G	113	THR
1	G	117	PHE
1	G	119	VAL
1	G	120	ASN
1	G	133	TYR
1	G	138	LYS
1	G	140	LYS
1	G	147	GLN
1	G	149	SER
1	G	153	ASN
1	G	158	ARG
1	G	159	ASP
1	G	161	ASP
1	G	165	ASN
1	G	166	ASN
1	G	168	LEU
1	G	172	THR
1	G	177	LEU
1	G	180	LEU
1	G	186	THR
1	G	187	MET
1	G	188	ASN
1	G	190	VAL

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Mol	Chain	Res	Type
1	G	192	ASN
1	G	193	THR
1	G	194	THR
1	G	195	THR
1	G	196	THR
1	G	199	ILE
1	G	200	THR
1	G	207	VAL
1	G	209	LEU
1	G	213	LEU
1	G	214	TRP
1	G	215	ASP
1	G	224	ASN
1	G	228	LEU
1	G	229	THR
1	G	233	VAL
1	G	234	LEU
1	G	240	ARG
1	G	246	ASP
1	G	249	ASN
1	G	250	ASP
1	G	254	ASN
1	G	255	SER
1	G	257	ILE
1	G	265	GLN
1	G	266	GLN
1	G	269	MET
1	G	271	LEU
1	G	273	PHE
1	G	275	THR
1	G	282	ILE
1	G	285	ARG
1	G	287	THR
1	G	290	TYR
1	G	295	ARG
1	G	297	THR
1	G	299	GLN
1	G	301	GLN
1	G	304	LEU
1	G	311	THR
1	G	312	PHE
1	G	314	SER

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Mol	Chain	Res	Type
1	G	315	ASN
1	G	316	VAL
1	G	317	VAL
1	G	318	GLN
1	G	319	LEU
1	G	320	ASP
1	G	324	ARG
1	G	326	LEU
1	G	327	TYR
1	G	336	VAL
1	G	337	ILE
1	G	339	GLN
1	G	340	ASN
1	G	341	LEU
1	G	342	ASN
1	G	343	ASN
1	G	345	ILE
1	G	349	ASP
1	G	350	VAL
1	G	351	PHE
1	G	353	GLN
1	G	356	ASN
1	G	358	ASN
1	G	360	THR
1	G	374	GLN
1	G	376	LEU
1	G	380	SER
1	G	381	VAL
1	G	386	ASN
1	G	387	LYS
1	G	393	ASN
1	G	395	VAL
1	G	397	GLN
1	G	399	PHE
1	G	408	LYS
1	G	413	GLU
1	G	418	CYS
1	G	419	LEU
1	G	421	LEU
1	G	423	LYS
1	G	425	VAL
1	G	427	LEU

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Mol	Chain	Res	Type
1	G	428	ARG
1	G	430	ASP
1	G	436	ILE
1	G	439	PHE
1	G	441	LEU
1	G	444	GLN
1	G	451	ASN
1	G	457	THR
1	G	459	ASP
1	G	469	THR
1	G	470	LEU
1	G	474	ASN
1	G	480	SER
1	G	493	ARG
1	G	494	ILE
1	G	501	ASN
1	G	505	ARG
1	G	507	TYR
1	H	3	ASN
1	H	6	ILE
1	H	8	LEU
1	H	11	VAL
1	H	15	GLU
1	H	17	ARG
1	H	19	GLU
1	H	20	LEU
1	H	22	ASN
1	H	24	ARG
1	H	34	GLN
1	H	48	ASN
1	H	49	GLN
1	H	52	PHE
1	H	53	ILE
1	H	58	SER
1	H	63	LEU
1	H	64	ASP
1	H	65	ARG
1	H	69	ILE
1	H	70	GLN
1	H	71	VAL
1	H	76	THR
1	H	83	HIS

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Mol	Chain	Res	Type
1	H	86	ILE
1	H	91	LEU
1	H	92	GLN
1	H	95	ARG
1	H	96	ASP
1	H	103	ILE
1	H	108	ASN
1	H	109	THR
1	H	113	THR
1	H	119	VAL
1	H	120	ASN
1	H	121	ILE
1	H	122	GLU
1	H	127	ILE
1	H	130	LEU
1	H	132	ARG
1	H	133	TYR
1	H	134	HIS
1	H	137	LEU
1	H	138	LYS
1	H	147	GLN
1	H	150	PHE
1	H	153	ASN
1	H	168	LEU
1	H	177	LEU
1	H	180	LEU
1	H	186	THR
1	H	190	VAL
1	H	191	THR
1	H	192	ASN
1	H	194	THR
1	H	198	ARG
1	H	199	ILE
1	H	200	THR
1	H	203	LEU
1	H	206	GLN
1	H	209	LEU
1	H	212	PHE
1	H	213	LEU
1	H	217	GLU
1	H	218	GLN
1	H	224	ASN

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Mol	Chain	Res	Type
1	H	225	LEU
1	H	227	SER
1	H	228	LEU
1	H	233	VAL
1	H	240	ARG
1	H	241	ILE
1	H	249	ASN
1	H	252	SER
1	H	254	ASN
1	H	261	ASN
1	H	262	ILE
1	H	263	SER
1	H	282	ILE
1	H	285	ARG
1	H	286	ILE
1	H	287	THR
1	H	290	TYR
1	H	291	PHE
1	H	292	LYS
1	H	293	LEU
1	H	294	SER
1	H	295	ARG
1	H	300	PHE
1	H	301	GLN
1	H	302	ASN
1	H	303	THR
1	H	304	LEU
1	H	307	ASN
1	H	312	PHE
1	H	313	LYS
1	H	314	SER
1	H	315	ASN
1	H	316	VAL
1	H	319	LEU
1	H	320	ASP
1	H	321	SER
1	H	324	ARG
1	H	326	LEU
1	H	329	PHE
1	H	333	SER
1	H	335	ASN
1	H	337	ILE

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Mol	Chain	Res	Type
1	H	338	TYR
1	H	339	GLN
1	H	341	LEU
1	H	342	ASN
1	H	343	ASN
1	H	344	GLN
1	H	345	ILE
1	H	347	THR
1	H	351	PHE
1	H	360	THR
1	H	364	GLN
1	H	379	PHE
1	H	380	SER
1	H	386	ASN
1	H	388	THR
1	H	392	PHE
1	H	395	VAL
1	H	396	THR
1	H	399	PHE
1	H	402	VAL
1	H	412	LEU
1	H	413	GLU
1	H	416	ILE
1	H	418	CYS
1	H	419	LEU
1	H	424	ASP
1	H	427	LEU
1	H	428	ARG
1	H	430	ASP
1	H	433	GLU
1	H	441	LEU
1	H	444	GLN
1	H	445	MET
1	H	446	THR
1	H	447	VAL
1	H	448	THR
1	H	449	ASN
1	H	450	THR
1	H	451	ASN
1	H	455	THR
1	H	457	THR
1	H	459	ASP

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Mol	Chain	Res	Type
1	H	465	VAL
1	H	470	LEU
1	H	478	MET
1	H	481	ILE
1	H	483	VAL
1	H	485	SER
1	H	486	LYS
1	H	487	GLU
1	H	488	GLU
1	H	491	ASN
1	H	501	ASN
1	H	505	ARG
1	H	506	ILE
1	I	1	MET
1	I	3	ASN
1	I	4	SER
1	I	6	ILE
1	I	10	VAL
1	I	11	VAL
1	I	13	VAL
1	I	17	ARG
1	I	18	LEU
1	I	20	LEU
1	I	22	ASN
1	I	36	THR
1	I	58	SER
1	I	63	LEU
1	I	64	ASP
1	I	65	ARG
1	I	69	ILE
1	I	70	GLN
1	I	71	VAL
1	I	78	THR
1	I	80	ASN
1	I	86	ILE
1	I	87	THR
1	I	89	ASN
1	I	90	LEU
1	I	96	ASP
1	I	99	ARG
1	I	101	PHE
1	I	103	ILE

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Mol	Chain	Res	Type
1	I	108	ASN
1	I	109	THR
1	I	110	LEU
1	I	113	THR
1	I	117	PHE
1	I	120	ASN
1	I	121	ILE
1	I	122	GLU
1	I	130	LEU
1	I	132	ARG
1	I	133	TYR
1	I	134	HIS
1	I	140	LYS
1	I	144	MET
1	I	147	GLN
1	I	149	SER
1	I	151	GLU
1	I	153	ASN
1	I	159	ASP
1	I	161	ASP
1	I	165	ASN
1	I	168	LEU
1	I	177	LEU
1	I	180	LEU
1	I	187	MET
1	I	188	ASN
1	I	189	VAL
1	I	191	THR
1	I	193	THR
1	I	196	THR
1	I	203	LEU
1	I	205	GLU
1	I	209	LEU
1	I	213	LEU
1	I	214	TRP
1	I	224	ASN
1	I	225	LEU
1	I	228	LEU
1	I	229	THR
1	I	231	ASN
1	I	233	VAL
1	I	235	ASN

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Mol	Chain	Res	Type
1	I	236	ASN
1	I	247	ILE
1	I	248	THR
1	I	249	ASN
1	I	255	SER
1	I	257	ILE
1	I	261	ASN
1	I	268	SER
1	I	269	MET
1	I	271	LEU
1	I	275	THR
1	I	283	PRO
1	I	285	ARG
1	I	286	ILE
1	I	293	LEU
1	I	295	ARG
1	I	297	THR
1	I	299	GLN
1	I	303	THR
1	I	304	LEU
1	I	309	SER
1	I	311	THR
1	I	313	LYS
1	I	314	SER
1	I	315	ASN
1	I	319	LEU
1	I	320	ASP
1	I	321	SER
1	I	322	ILE
1	I	324	ARG
1	I	325	LYS
1	I	326	LEU
1	I	328	LEU
1	I	331	LYS
1	I	332	GLN
1	I	335	ASN
1	I	338	TYR
1	I	339	GLN
1	I	340	ASN
1	I	341	LEU
1	I	342	ASN
1	I	343	ASN

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Mol	Chain	Res	Type
1	I	344	GLN
1	I	345	ILE
1	I	349	ASP
1	I	350	VAL
1	I	351	PHE
1	I	355	ASN
1	I	356	ASN
1	I	357	LEU
1	I	358	ASN
1	I	362	ASN
1	I	363	ASN
1	I	364	GLN
1	I	365	GLN
1	I	367	ILE
1	I	372	SER
1	I	373	SER
1	I	374	GLN
1	I	375	ASN
1	I	377	TYR
1	I	379	PHE
1	I	380	SER
1	I	382	GLN
1	I	386	ASN
1	I	387	LYS
1	I	393	ASN
1	I	395	VAL
1	I	397	GLN
1	I	407	THR
1	I	408	LYS
1	I	416	ILE
1	I	418	CYS
1	I	420	GLU
1	I	423	LYS
1	I	425	VAL
1	I	427	LEU
1	I	428	ARG
1	I	430	ASP
1	I	431	GLU
1	I	433	GLU
1	I	436	ILE
1	I	439	PHE
1	I	441	LEU

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Mol	Chain	Res	Type
1	I	442	GLN
1	I	444	GLN
1	I	445	MET
1	I	446	THR
1	I	447	VAL
1	I	449	ASN
1	I	450	THR
1	I	452	GLN
1	I	453	TYR
1	I	457	THR
1	I	459	ASP
1	I	465	VAL
1	I	467	ASP
1	I	470	LEU
1	I	473	SER
1	I	475	THR
1	I	476	SER
1	I	478	MET
1	I	481	ILE
1	I	487	GLU
1	I	490	LEU
1	I	491	ASN
1	I	493	ARG
1	I	494	ILE
1	I	501	ASN
1	I	506	ILE
1	J	2	SER
1	J	3	ASN
1	J	4	SER
1	J	6	ILE
1	J	10	VAL
1	J	11	VAL
1	J	14	GLN
1	J	17	ARG
1	J	19	GLU
1	J	20	LEU
1	J	21	ASN
1	J	23	GLU
1	J	36	THR
1	J	38	TYR
1	J	43	THR
1	J	46	SER

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Mol	Chain	Res	Type
1	J	54	CYS
1	J	58	SER
1	J	60	GLN
1	J	61	THR
1	J	62	VAL
1	J	63	LEU
1	J	65	ARG
1	J	69	ILE
1	J	70	GLN
1	J	71	VAL
1	J	75	ILE
1	J	76	THR
1	J	80	ASN
1	J	86	ILE
1	J	89	ASN
1	J	90	LEU
1	J	95	ARG
1	J	99	ARG
1	J	101	PHE
1	J	106	ILE
1	J	109	THR
1	J	110	LEU
1	J	113	THR
1	J	120	ASN
1	J	125	GLN
1	J	127	ILE
1	J	131	SER
1	J	132	ARG
1	J	133	TYR
1	J	134	HIS
1	J	140	LYS
1	J	144	MET
1	J	153	ASN
1	J	158	ARG
1	J	159	ASP
1	J	161	ASP
1	J	165	ASN
1	J	166	ASN
1	J	168	LEU
1	J	170	VAL
1	J	172	THR
1	J	180	LEU

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Mol	Chain	Res	Type
1	J	185	TYR
1	J	186	THR
1	J	187	MET
1	J	188	ASN
1	J	189	VAL
1	J	191	THR
1	J	192	ASN
1	J	198	ARG
1	J	199	ILE
1	J	202	VAL
1	J	203	LEU
1	J	207	VAL
1	J	209	LEU
1	J	215	ASP
1	J	217	GLU
1	J	218	GLN
1	J	224	ASN
1	J	226	THR
1	J	229	THR
1	J	231	ASN
1	J	232	TRP
1	J	233	VAL
1	J	240	ARG
1	J	241	ILE
1	J	247	ILE
1	J	250	ASP
1	J	251	VAL
1	J	254	ASN
1	J	257	ILE
1	J	261	ASN
1	J	271	LEU
1	J	275	THR
1	J	286	ILE
1	J	287	THR
1	J	290	TYR
1	J	292	LYS
1	J	295	ARG
1	J	296	TYR
1	J	297	THR
1	J	299	GLN
1	J	301	GLN
1	J	303	THR

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Mol	Chain	Res	Type
1	J	304	LEU
1	J	311	THR
1	J	313	LYS
1	J	314	SER
1	J	316	VAL
1	J	317	VAL
1	J	318	GLN
1	J	320	ASP
1	J	324	ARG
1	J	325	LYS
1	J	327	TYR
1	J	331	LYS
1	J	332	GLN
1	J	337	ILE
1	J	339	GLN
1	J	340	ASN
1	J	341	LEU
1	J	342	ASN
1	J	343	ASN
1	J	351	PHE
1	J	356	ASN
1	J	357	LEU
1	J	358	ASN
1	J	362	ASN
1	J	364	GLN
1	J	367	ILE
1	J	374	GLN
1	J	380	SER
1	J	381	VAL
1	J	386	ASN
1	J	387	LYS
1	J	389	TRP
1	J	390	SER
1	J	396	THR
1	J	397	GLN
1	J	399	PHE
1	J	402	VAL
1	J	405	GLN
1	J	416	ILE
1	J	418	CYS
1	J	419	LEU
1	J	420	GLU

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Mol	Chain	Res	Type
1	J	427	LEU
1	J	428	ARG
1	J	430	ASP
1	J	433	GLU
1	J	435	VAL
1	J	440	ASN
1	J	441	LEU
1	J	442	GLN
1	J	444	GLN
1	J	445	MET
1	J	446	THR
1	J	449	ASN
1	J	450	THR
1	J	452	GLN
1	J	459	ASP
1	J	465	VAL
1	J	466	TYR
1	J	470	LEU
1	J	473	SER
1	J	478	MET
1	J	481	ILE
1	J	483	VAL
1	J	486	LYS
1	J	493	ARG
1	J	494	ILE
1	J	498	VAL
1	J	505	ARG
1	J	506	ILE
1	K	1	MET
1	K	3	ASN
1	K	6	ILE
1	K	10	VAL
1	K	13	VAL
1	K	14	GLN
1	K	21	ASN
1	K	22	ASN
1	K	25	THR
1	K	28	VAL
1	K	30	LYS
1	K	36	THR
1	K	42	SER
1	K	49	GLN

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Mol	Chain	Res	Type
1	K	53	ILE
1	K	54	CYS
1	K	58	SER
1	K	60	GLN
1	K	61	THR
1	K	63	LEU
1	K	66	LEU
1	K	76	THR
1	K	82	SER
1	K	86	ILE
1	K	87	THR
1	K	89	ASN
1	K	90	LEU
1	K	91	LEU
1	K	95	ARG
1	K	99	ARG
1	K	101	PHE
1	K	104	SER
1	K	105	SER
1	K	109	THR
1	K	113	THR
1	K	117	PHE
1	K	120	ASN
1	K	121	ILE
1	K	127	ILE
1	K	130	LEU
1	K	131	SER
1	K	133	TYR
1	K	134	HIS
1	K	147	GLN
1	K	149	SER
1	K	153	ASN
1	K	156	SER
1	K	158	ARG
1	K	161	ASP
1	K	165	ASN
1	K	166	ASN
1	K	168	LEU
1	K	172	THR
1	K	177	LEU
1	K	184	SER
1	K	186	THR

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Mol	Chain	Res	Type
1	K	187	MET
1	K	191	THR
1	K	192	ASN
1	K	202	VAL
1	K	205	GLU
1	K	209	LEU
1	K	213	LEU
1	K	222	LEU
1	K	224	ASN
1	K	225	LEU
1	K	227	SER
1	K	228	LEU
1	K	229	THR
1	K	230	PHE
1	K	231	ASN
1	K	232	TRP
1	K	235	ASN
1	K	236	ASN
1	K	238	LEU
1	K	241	ILE
1	K	247	ILE
1	K	249	ASN
1	K	250	ASP
1	K	259	SER
1	K	261	ASN
1	K	262	ILE
1	K	264	PHE
1	K	265	GLN
1	K	275	THR
1	K	278	LEU
1	K	279	ASN
1	K	282	ILE
1	K	285	ARG
1	K	286	ILE
1	K	287	THR
1	K	290	TYR
1	K	292	LYS
1	K	295	ARG
1	K	296	TYR
1	K	297	THR
1	K	298	THR
1	K	301	GLN

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Mol	Chain	Res	Type
1	K	304	LEU
1	K	309	SER
1	K	310	SER
1	K	311	THR
1	K	313	LYS
1	K	328	LEU
1	K	334	ASP
1	K	336	VAL
1	K	337	ILE
1	K	342	ASN
1	K	343	ASN
1	K	346	THR
1	K	349	ASP
1	K	353	GLN
1	K	357	LEU
1	K	358	ASN
1	K	360	THR
1	K	361	TRP
1	K	362	ASN
1	K	363	ASN
1	K	364	GLN
1	K	368	LEU
1	K	376	LEU
1	K	379	PHE
1	K	386	ASN
1	K	388	THR
1	K	389	TRP
1	K	393	ASN
1	K	395	VAL
1	K	397	GLN
1	K	399	PHE
1	K	403	SER
1	K	405	GLN
1	K	407	THR
1	K	412	LEU
1	K	413	GLU
1	K	416	ILE
1	K	418	CYS
1	K	419	LEU
1	K	420	GLU
1	K	425	VAL
1	K	427	LEU

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Mol	Chain	Res	Type
1	K	428	ARG
1	K	430	ASP
1	K	431	GLU
1	K	433	GLU
1	K	436	ILE
1	K	438	ASN
1	K	439	PHE
1	K	441	LEU
1	K	444	GLN
1	K	446	THR
1	K	452	GLN
1	K	457	THR
1	K	459	ASP
1	K	465	VAL
1	K	470	LEU
1	K	474	ASN
1	K	475	THR
1	K	478	MET
1	K	481	ILE
1	K	483	VAL
1	K	487	GLU
1	K	488	GLU
1	K	491	ASN
1	K	493	ARG
1	K	494	ILE
1	K	495	THR
1	K	496	HIS
1	K	501	ASN
1	K	503	LEU
1	K	504	GLN
1	K	507	TYR
1	L	2	SER
1	L	6	ILE
1	L	8	LEU
1	L	9	ASN
1	L	13	VAL
1	L	15	GLU
1	L	17	ARG
1	L	19	GLU
1	L	20	LEU
1	L	21	ASN
1	L	22	ASN

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Mol	Chain	Res	Type
1	L	23	GLU
1	L	24	ARG
1	L	26	TRP
1	L	28	VAL
1	L	30	LYS
1	L	36	THR
1	L	38	TYR
1	L	42	SER
1	L	43	THR
1	L	46	SER
1	L	52	PHE
1	L	61	THR
1	L	62	VAL
1	L	63	LEU
1	L	66	LEU
1	L	69	ILE
1	L	70	GLN
1	L	76	THR
1	L	77	PHE
1	L	83	HIS
1	L	86	ILE
1	L	87	THR
1	L	91	LEU
1	L	92	GLN
1	L	95	ARG
1	L	99	ARG
1	L	101	PHE
1	L	106	ILE
1	L	107	THR
1	L	120	ASN
1	L	127	ILE
1	L	133	TYR
1	L	138	LYS
1	L	140	LYS
1	L	147	GLN
1	L	149	SER
1	L	153	ASN
1	L	155	GLN
1	L	158	ARG
1	L	159	ASP
1	L	165	ASN
1	L	166	ASN

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Mol	Chain	Res	Type
1	L	168	LEU
1	L	172	THR
1	L	177	LEU
1	L	178	SER
1	L	186	THR
1	L	188	ASN
1	L	190	VAL
1	L	192	ASN
1	L	194	THR
1	L	196	THR
1	L	198	ARG
1	L	199	ILE
1	L	206	GLN
1	L	209	LEU
1	L	215	ASP
1	L	217	GLU
1	L	222	LEU
1	L	224	ASN
1	L	227	SER
1	L	228	LEU
1	L	229	THR
1	L	231	ASN
1	L	233	VAL
1	L	235	ASN
1	L	236	ASN
1	L	237	ASN
1	L	240	ARG
1	L	247	ILE
1	L	248	THR
1	L	249	ASN
1	L	250	ASP
1	L	252	SER
1	L	254	ASN
1	L	256	THR
1	L	257	ILE
1	L	261	ASN
1	L	265	GLN
1	L	271	LEU
1	L	275	THR
1	L	280	ILE
1	L	285	ARG
1	L	286	ILE

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Mol	Chain	Res	Type
1	L	287	THR
1	L	290	TYR
1	L	293	LEU
1	L	295	ARG
1	L	297	THR
1	L	298	THR
1	L	299	GLN
1	L	300	PHE
1	L	301	GLN
1	L	313	LYS
1	L	317	VAL
1	L	320	ASP
1	L	322	ILE
1	L	324	ARG
1	L	328	LEU
1	L	339	GLN
1	L	341	LEU
1	L	343	ASN
1	L	344	GLN
1	L	345	ILE
1	L	346	THR
1	L	349	ASP
1	L	356	ASN
1	L	357	LEU
1	L	358	ASN
1	L	360	THR
1	L	361	TRP
1	L	362	ASN
1	L	363	ASN
1	L	365	GLN
1	L	367	ILE
1	L	374	GLN
1	L	380	SER
1	L	381	VAL
1	L	382	GLN
1	L	386	ASN
1	L	387	LYS
1	L	393	ASN
1	L	395	VAL
1	L	399	PHE
1	L	408	LYS
1	L	409	VAL

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Mol	Chain	Res	Type
1	L	412	LEU
1	L	413	GLU
1	L	416	ILE
1	L	418	CYS
1	L	419	LEU
1	L	420	GLU
1	L	423	LYS
1	L	424	ASP
1	L	427	LEU
1	L	429	ASP
1	L	433	GLU
1	L	439	PHE
1	L	441	LEU
1	L	446	THR
1	L	447	VAL
1	L	448	THR
1	L	449	ASN
1	L	457	THR
1	L	459	ASP
1	L	481	ILE
1	L	486	LYS
1	L	487	GLU
1	L	491	ASN
1	L	498	VAL
1	L	499	SER
1	L	505	ARG
1	L	506	ILE
1	M	1	MET
1	M	6	ILE
1	M	8	LEU
1	M	10	VAL
1	M	15	GLU
1	M	17	ARG
1	M	18	LEU
1	M	22	ASN
1	M	24	ARG
1	M	25	THR
1	M	36	THR
1	M	43	THR
1	M	58	SER
1	M	62	VAL
1	M	63	LEU

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Mol	Chain	Res	Type
1	M	65	ARG
1	M	66	LEU
1	M	70	GLN
1	M	87	THR
1	M	91	LEU
1	M	95	ARG
1	M	99	ARG
1	M	101	PHE
1	M	106	ILE
1	M	107	THR
1	M	108	ASN
1	M	109	THR
1	M	110	LEU
1	M	113	THR
1	M	120	ASN
1	M	122	GLU
1	M	131	SER
1	M	132	ARG
1	M	135	THR
1	M	137	LEU
1	M	138	LYS
1	M	140	LYS
1	M	147	GLN
1	M	152	ASP
1	M	153	ASN
1	M	158	ARG
1	M	165	ASN
1	M	168	LEU
1	M	170	VAL
1	M	172	THR
1	M	180	LEU
1	M	184	SER
1	M	186	THR
1	M	187	MET
1	M	188	ASN
1	M	192	ASN
1	M	193	THR
1	M	196	THR
1	M	198	ARG
1	M	199	ILE
1	M	203	LEU
1	M	206	GLN

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Mol	Chain	Res	Type
1	M	209	LEU
1	M	213	LEU
1	M	214	TRP
1	M	215	ASP
1	M	217	GLU
1	M	218	GLN
1	M	222	LEU
1	M	224	ASN
1	M	228	LEU
1	M	229	THR
1	M	231	ASN
1	M	233	VAL
1	M	234	LEU
1	M	237	ASN
1	M	238	LEU
1	M	240	ARG
1	M	241	ILE
1	M	246	ASP
1	M	247	ILE
1	M	248	THR
1	M	249	ASN
1	M	250	ASP
1	M	251	VAL
1	M	254	ASN
1	M	256	THR
1	M	259	SER
1	M	261	ASN
1	M	263	SER
1	M	265	GLN
1	M	271	LEU
1	M	275	THR
1	M	277	ARG
1	M	280	ILE
1	M	282	ILE
1	M	287	THR
1	M	293	LEU
1	M	295	ARG
1	M	297	THR
1	M	301	GLN
1	M	304	LEU
1	M	311	THR
1	M	313	LYS

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Mol	Chain	Res	Type
1	M	314	SER
1	M	315	ASN
1	M	317	VAL
1	M	318	GLN
1	M	320	ASP
1	M	324	ARG
1	M	325	LYS
1	M	326	LEU
1	M	328	LEU
1	M	333	SER
1	M	337	ILE
1	M	341	LEU
1	M	342	ASN
1	M	345	ILE
1	M	346	THR
1	M	347	THR
1	M	349	ASP
1	M	351	PHE
1	M	356	ASN
1	M	357	LEU
1	M	358	ASN
1	M	359	LEU
1	M	361	TRP
1	M	362	ASN
1	M	365	GLN
1	M	367	ILE
1	M	373	SER
1	M	380	SER
1	M	381	VAL
1	M	386	ASN
1	M	387	LYS
1	M	391	GLU
1	M	393	ASN
1	M	395	VAL
1	M	397	GLN
1	M	399	PHE
1	M	400	ASN
1	M	403	SER
1	M	405	GLN
1	M	407	THR
1	M	408	LYS
1	M	409	VAL

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Mol	Chain	Res	Type
1	M	412	LEU
1	M	419	LEU
1	M	424	ASP
1	M	425	VAL
1	M	427	LEU
1	M	428	ARG
1	M	430	ASP
1	M	436	ILE
1	M	439	PHE
1	M	441	LEU
1	M	444	GLN
1	M	446	THR
1	M	448	THR
1	M	451	ASN
1	M	452	GLN
1	M	457	THR
1	M	459	ASP
1	M	460	MET
1	M	469	THR
1	M	470	LEU
1	M	476	SER
1	M	478	MET
1	M	483	VAL
1	M	488	GLU
1	M	491	ASN
1	M	494	ILE
1	M	501	ASN
1	M	502	GLU
1	M	503	LEU
1	M	505	ARG
1	M	506	ILE
1	M	507	TYR
2	N	15	THR
2	N	16	VAL
2	N	17	TYR
2	N	18	TYR
2	N	22	ILE
2	N	24	PHE
2	N	25	LYS
2	N	28	ASP
2	N	35	ILE
2	N	36	PHE

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Mol	Chain	Res	Type
2	N	37	GLN
2	N	41	THR
2	N	46	HIS
2	N	53	LEU
2	N	55	VAL
2	N	56	VAL
2	N	58	PHE
2	N	59	SER
2	N	60	ILE
2	N	64	ASN
2	N	67	LEU
2	N	68	THR
2	N	71	GLN
2	N	75	TYR
2	N	77	ASN
2	N	79	ASN
2	N	81	ASN
2	N	84	ILE
2	N	87	VAL
2	N	94	THR
2	N	98	GLN
2	N	99	ASN
2	N	101	VAL
2	N	102	GLN
2	N	107	LEU
2	N	108	THR
2	N	109	SER
2	N	116	ASN
2	N	119	THR
2	N	120	VAL
2	N	124	ASN
2	N	132	TYR
2	N	133	ILE
2	N	134	TYR
2	N	137	SER
2	N	145	THR
2	N	158	VAL
2	N	161	ASP
2	N	166	PHE
2	N	170	ASN
2	N	171	THR
2	N	172	GLU

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Mol	Chain	Res	Type
2	N	173	LYS
2	N	176	LEU
2	N	179	GLN
2	N	182	TYR
2	N	183	TYR
2	N	185	ARG
2	N	193	ILE
2	N	196	ASN
2	N	197	VAL
2	N	199	LEU
2	N	204	ASP
2	N	213	TYR
2	N	219	ARG
2	N	220	ASP
2	N	221	ILE
2	N	222	LEU
2	N	227	PHE
2	N	228	LEU
2	N	231	ASN
2	N	238	THR
2	N	242	TYR
2	N	246	PHE
2	N	248	GLN
2	N	249	MET
2	N	255	THR
2	N	257	SER
2	N	264	THR
2	N	265	ILE
2	N	271	LEU
2	N	272	LEU
2	N	274	ILE
2	N	279	ILE
2	N	285	SER
2	N	286	ASN
2	N	291	ASN
2	N	296	LEU
2	N	299	PHE
2	N	304	THR
2	N	308	GLU
2	N	311	ILE
2	N	313	ILE
2	N	322	ARG

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Mol	Chain	Res	Type
2	N	327	PHE
2	N	329	SER
2	N	332	ILE
2	N	334	MET
2	N	335	VAL
2	N	336	ASP
2	N	341	TRP
2	N	342	THR
2	N	343	ASP
2	N	344	GLN
2	N	345	THR
2	N	348	GLN
2	N	351	ILE
2	N	352	ASN
2	N	353	ILE
2	N	357	ARG
2	N	358	ILE
2	N	360	THR
2	N	366	ILE
2	N	370	LEU
2	N	371	SER
2	N	372	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (410) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	3	ASN
1	A	22	ASN
1	A	34	GLN
1	A	48	ASN
1	A	108	ASN
1	A	115	ASN
1	A	128	HIS
1	A	153	ASN
1	A	164	ASN
1	A	165	ASN
1	A	192	ASN
1	A	224	ASN
1	A	254	ASN
1	A	261	ASN
1	A	265	GLN
1	A	266	GLN

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Mol	Chain	Res	Type
1	A	299	GLN
1	A	315	ASN
1	A	332	GLN
1	A	339	GLN
1	A	343	ASN
1	A	344	GLN
1	A	355	ASN
1	A	362	ASN
1	A	363	ASN
1	A	364	GLN
1	A	374	GLN
1	A	397	GLN
1	A	405	GLN
1	A	442	GLN
1	A	449	ASN
1	A	491	ASN
1	A	501	ASN
1	B	21	ASN
1	B	22	ASN
1	B	108	ASN
1	B	120	ASN
1	B	147	GLN
1	B	153	ASN
1	B	164	ASN
1	B	165	ASN
1	B	192	ASN
1	B	224	ASN
1	B	231	ASN
1	B	235	ASN
1	B	244	HIS
1	B	249	ASN
1	B	265	GLN
1	B	279	ASN
1	B	315	ASN
1	B	332	GLN
1	B	340	ASN
1	B	365	GLN
1	B	386	ASN
1	B	405	GLN
1	B	444	GLN
1	B	449	ASN
1	B	474	ASN

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Mol	Chain	Res	Type
1	B	491	ASN
1	B	501	ASN
1	B	504	GLN
1	C	21	ASN
1	C	22	ASN
1	C	70	GLN
1	C	89	ASN
1	C	92	GLN
1	C	120	ASN
1	C	125	GLN
1	C	128	HIS
1	C	192	ASN
1	C	206	GLN
1	C	218	GLN
1	C	237	ASN
1	C	249	ASN
1	C	254	ASN
1	C	299	GLN
1	C	301	GLN
1	C	315	ASN
1	C	353	GLN
1	C	362	ASN
1	C	374	GLN
1	C	375	ASN
1	C	383	ASN
1	C	386	ASN
1	C	397	GLN
1	C	449	ASN
1	C	451	ASN
1	C	501	ASN
1	D	3	ASN
1	D	21	ASN
1	D	22	ASN
1	D	33	GLN
1	D	48	ASN
1	D	60	GLN
1	D	120	ASN
1	D	134	HIS
1	D	164	ASN
1	D	192	ASN
1	D	206	GLN
1	D	218	GLN

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Mol	Chain	Res	Type
1	D	235	ASN
1	D	254	ASN
1	D	261	ASN
1	D	265	GLN
1	D	266	GLN
1	D	335	ASN
1	D	342	ASN
1	D	343	ASN
1	D	344	GLN
1	D	382	GLN
1	D	386	ASN
1	D	405	GLN
1	D	449	ASN
1	D	452	GLN
1	D	491	ASN
1	D	501	ASN
1	E	3	ASN
1	E	21	ASN
1	E	48	ASN
1	E	89	ASN
1	E	115	ASN
1	E	120	ASN
1	E	153	ASN
1	E	165	ASN
1	E	192	ASN
1	E	206	GLN
1	E	224	ASN
1	E	231	ASN
1	E	236	ASN
1	E	249	ASN
1	E	254	ASN
1	E	261	ASN
1	E	265	GLN
1	E	279	ASN
1	E	299	GLN
1	E	301	GLN
1	E	302	ASN
1	E	339	GLN
1	E	340	ASN
1	E	342	ASN
1	E	362	ASN
1	E	383	ASN

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Mol	Chain	Res	Type
1	E	398	GLN
1	E	405	GLN
1	E	438	ASN
1	E	449	ASN
1	F	3	ASN
1	F	21	ASN
1	F	22	ASN
1	F	34	GLN
1	F	70	GLN
1	F	89	ASN
1	F	115	ASN
1	F	120	ASN
1	F	165	ASN
1	F	188	ASN
1	F	192	ASN
1	F	206	GLN
1	F	218	GLN
1	F	231	ASN
1	F	237	ASN
1	F	261	ASN
1	F	265	GLN
1	F	266	GLN
1	F	299	GLN
1	F	335	ASN
1	F	343	ASN
1	F	374	GLN
1	F	382	GLN
1	F	449	ASN
1	F	452	GLN
1	F	491	ASN
1	F	496	HIS
1	F	501	ASN
1	G	9	ASN
1	G	14	GLN
1	G	21	ASN
1	G	22	ASN
1	G	49	GLN
1	G	51	ASN
1	G	111	ASN
1	G	165	ASN
1	G	192	ASN
1	G	206	GLN

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Mol	Chain	Res	Type
1	G	231	ASN
1	G	236	ASN
1	G	249	ASN
1	G	254	ASN
1	G	261	ASN
1	G	265	GLN
1	G	339	GLN
1	G	342	ASN
1	G	343	ASN
1	G	344	GLN
1	G	353	GLN
1	G	363	ASN
1	G	374	GLN
1	G	386	ASN
1	G	397	GLN
1	G	449	ASN
1	G	452	GLN
1	G	501	ASN
1	H	22	ASN
1	H	48	ASN
1	H	49	GLN
1	H	60	GLN
1	H	120	ASN
1	H	147	GLN
1	H	153	ASN
1	H	155	GLN
1	H	164	ASN
1	H	192	ASN
1	H	224	ASN
1	H	236	ASN
1	H	244	HIS
1	H	265	GLN
1	H	266	GLN
1	H	301	GLN
1	H	302	ASN
1	H	335	ASN
1	H	342	ASN
1	H	343	ASN
1	H	344	GLN
1	H	365	GLN
1	H	375	ASN
1	H	393	ASN

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Mol	Chain	Res	Type
1	H	405	GLN
1	H	449	ASN
1	H	491	ASN
1	H	501	ASN
1	I	3	ASN
1	I	9	ASN
1	I	22	ASN
1	I	51	ASN
1	I	70	GLN
1	I	83	HIS
1	I	92	GLN
1	I	120	ASN
1	I	153	ASN
1	I	155	GLN
1	I	164	ASN
1	I	165	ASN
1	I	188	ASN
1	I	192	ASN
1	I	206	GLN
1	I	218	GLN
1	I	231	ASN
1	I	235	ASN
1	I	249	ASN
1	I	261	ASN
1	I	265	GLN
1	I	266	GLN
1	I	315	ASN
1	I	339	GLN
1	I	340	ASN
1	I	344	GLN
1	I	353	GLN
1	I	355	ASN
1	I	362	ASN
1	I	363	ASN
1	I	374	GLN
1	I	375	ASN
1	I	442	GLN
1	I	444	GLN
1	I	452	GLN
1	I	491	ASN
1	I	501	ASN
1	J	3	ASN

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Mol	Chain	Res	Type
1	J	21	ASN
1	J	70	GLN
1	J	108	ASN
1	J	120	ASN
1	J	128	HIS
1	J	134	HIS
1	J	153	ASN
1	J	165	ASN
1	J	192	ASN
1	J	206	GLN
1	J	224	ASN
1	J	235	ASN
1	J	261	ASN
1	J	265	GLN
1	J	266	GLN
1	J	307	ASN
1	J	318	GLN
1	J	335	ASN
1	J	339	GLN
1	J	343	ASN
1	J	344	GLN
1	J	362	ASN
1	J	364	GLN
1	J	365	GLN
1	J	382	GLN
1	J	386	ASN
1	J	405	GLN
1	J	452	GLN
1	J	491	ASN
1	J	504	GLN
1	K	22	ASN
1	K	49	GLN
1	K	60	GLN
1	K	89	ASN
1	K	120	ASN
1	K	128	HIS
1	K	153	ASN
1	K	165	ASN
1	K	166	ASN
1	K	206	GLN
1	K	218	GLN
1	K	224	ASN

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Mol	Chain	Res	Type
1	K	231	ASN
1	K	235	ASN
1	K	236	ASN
1	K	265	GLN
1	K	266	GLN
1	K	302	ASN
1	K	332	GLN
1	K	342	ASN
1	K	343	ASN
1	K	344	GLN
1	K	353	GLN
1	K	362	ASN
1	K	363	ASN
1	K	374	GLN
1	K	393	ASN
1	K	397	GLN
1	K	438	ASN
1	K	449	ASN
1	K	496	HIS
1	K	501	ASN
1	L	3	ASN
1	L	9	ASN
1	L	14	GLN
1	L	21	ASN
1	L	22	ASN
1	L	34	GLN
1	L	55	ASN
1	L	83	HIS
1	L	89	ASN
1	L	153	ASN
1	L	155	GLN
1	L	164	ASN
1	L	165	ASN
1	L	192	ASN
1	L	206	GLN
1	L	218	GLN
1	L	224	ASN
1	L	231	ASN
1	L	235	ASN
1	L	237	ASN
1	L	249	ASN
1	L	254	ASN

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Mol	Chain	Res	Type
1	L	265	GLN
1	L	299	GLN
1	L	301	GLN
1	L	318	GLN
1	L	355	ASN
1	L	362	ASN
1	L	364	GLN
1	L	382	GLN
1	L	393	ASN
1	L	405	GLN
1	L	449	ASN
1	L	452	GLN
1	L	491	ASN
1	L	496	HIS
1	M	21	ASN
1	M	22	ASN
1	M	49	GLN
1	M	60	GLN
1	M	108	ASN
1	M	120	ASN
1	M	134	HIS
1	M	153	ASN
1	M	164	ASN
1	M	165	ASN
1	M	192	ASN
1	M	218	GLN
1	M	231	ASN
1	M	235	ASN
1	M	236	ASN
1	M	237	ASN
1	M	261	ASN
1	M	265	GLN
1	M	301	GLN
1	M	302	ASN
1	M	339	GLN
1	M	353	GLN
1	M	362	ASN
1	M	374	GLN
1	M	386	ASN
1	M	397	GLN
1	M	442	GLN
1	M	449	ASN

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Mol	Chain	Res	Type
1	M	452	GLN
1	M	491	ASN
1	M	501	ASN
2	N	64	ASN
2	N	73	GLN
2	N	98	GLN
2	N	99	ASN
2	N	124	ASN
2	N	170	ASN
2	N	198	ASN
2	N	231	ASN
2	N	291	ASN
2	N	305	ASN
2	N	344	GLN
2	N	348	GLN
2	N	352	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.