



Full wwPDB EM Validation Report ⓘ

Mar 4, 2024 – 02:22 PM EST

PDB ID : 6M7J
EMDB ID : EMD-9047
Title : Mycobacterium tuberculosis RNAP with RbpA/us fork and Corallopyronin
Authors : Darst, S.A.; Campbell, E.A.; Boyaci Selcuk, H.; Chen, J.
Deposited on : 2018-08-20
Resolution : 4.40 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev70
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

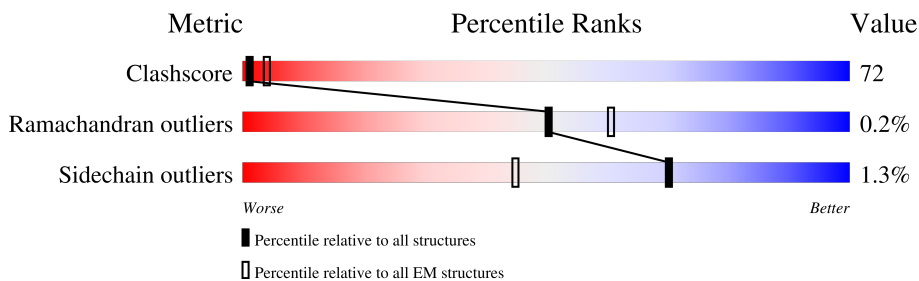
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.40 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.



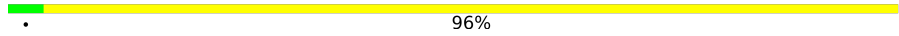
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	347	 13% 51% 35%
1	B	347	 14% 54% 32%
2	C	1179	 21% 71% 6%
3	D	1326	 24% 70% 5%
4	E	110	 20% 55% 25%
5	F	531	 17% 42% 40%
6	J	111	 32% 61% 5%
7	O	31	 97%

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Mol	Chain	Length	Quality of chain
8	P	26	 96%

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
11	C0L	D	1404	-	-	X	-

2 Entry composition [i](#)

There are 11 unique types of molecules in this entry. The entry contains 27223 atoms, of which 40 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 DNA-directed RNA polymerase subunit alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	225	Total	C	N	O	S	0	0
			1716	1080	296	338	2		
1	B	237	Total	C	N	O	S	0	0
			1759	1112	298	346	3		

- Molecule 2 is a protein called DNA-directed RNA polymerase subunit beta.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	C	1111	Total	C	N	O	S	0	0
			8586	5378	1507	1662	39		

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	1179	LEU	-	expression tag	UNP V9Z879
C	1180	ALA	-	expression tag	UNP V9Z879
C	1181	ARG	-	expression tag	UNP V9Z879
C	1182	HIS	-	expression tag	UNP V9Z879
C	1183	GLY	-	expression tag	UNP V9Z879
C	1184	GLY	-	expression tag	UNP V9Z879
C	1185	SER	-	expression tag	UNP V9Z879

- Molecule 3 is a protein called DNA-directed RNA polymerase subunit beta'.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	D	1266	Total	C	N	O	S	0	0
			9873	6184	1794	1853	42		

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	-1	GLY	-	expression tag	UNP A5U053
D	0	ALA	-	expression tag	UNP A5U053

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Chain	Residue	Modelled	Actual	Comment	Reference
D	1317	HIS	-	expression tag	UNP A5U053
D	1318	HIS	-	expression tag	UNP A5U053
D	1319	HIS	-	expression tag	UNP A5U053
D	1320	HIS	-	expression tag	UNP A5U053
D	1321	HIS	-	expression tag	UNP A5U053
D	1322	HIS	-	expression tag	UNP A5U053
D	1323	HIS	-	expression tag	UNP A5U053
D	1324	HIS	-	expression tag	UNP A5U053

- Molecule 4 is a protein called DNA-directed RNA polymerase subunit omega.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
4	E	83	649	414	108	127	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	1	GLY	-	expression tag	UNP A0A0T9N9K3

- Molecule 5 is a protein called RNA polymerase sigma factor SigA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	F	319	2518	1571	456	482	9	0	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
F	-2	GLY	-	expression tag	UNP P9WGI0
F	-1	PRO	-	expression tag	UNP P9WGI0
F	0	HIS	-	expression tag	UNP P9WGI0

- Molecule 6 is a protein called RNA polymerase-binding protein RbpA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	J	108	881	543	168	167	3	0	0

- Molecule 7 is a DNA chain called DNA (31-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
7	O	31	634	305	114	185	30	0	0

- Molecule 8 is a DNA chain called DNA (26-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
8	P	26	526	254	94	153	25	0	0

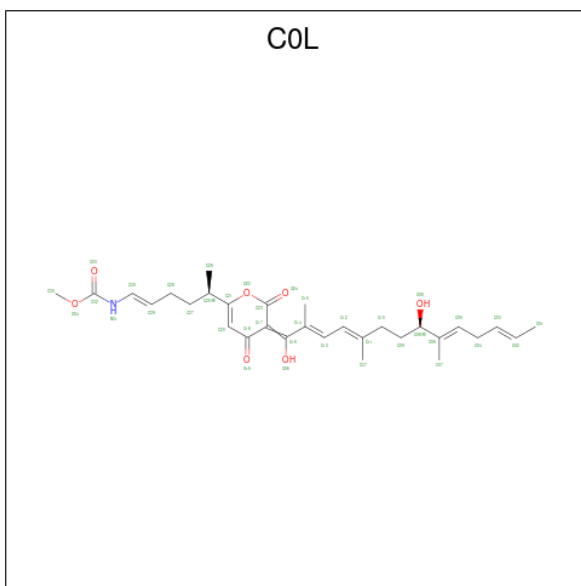
- Molecule 9 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
			Total	Zn	
9	D	2	2	2	0

- Molecule 10 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
10	D	1	1	1	0

- Molecule 11 is methyl [(1E,5R)-5-{(3E)-3-[(2E,4E,8R,9E,12E)-1,8-dihydroxy-2,5,9-trimethyltetradeca-2,4,9,12-tetraen-1-ylidene]-2,4-dioxo-3,4-dihydro-2H-pyran-6-yl}hex-1-en-1-yl]carbamate (three-letter code: COL) (formula: C₃₀H₄₁NO₇) (labeled as "Ligand of Interest" by depositor).

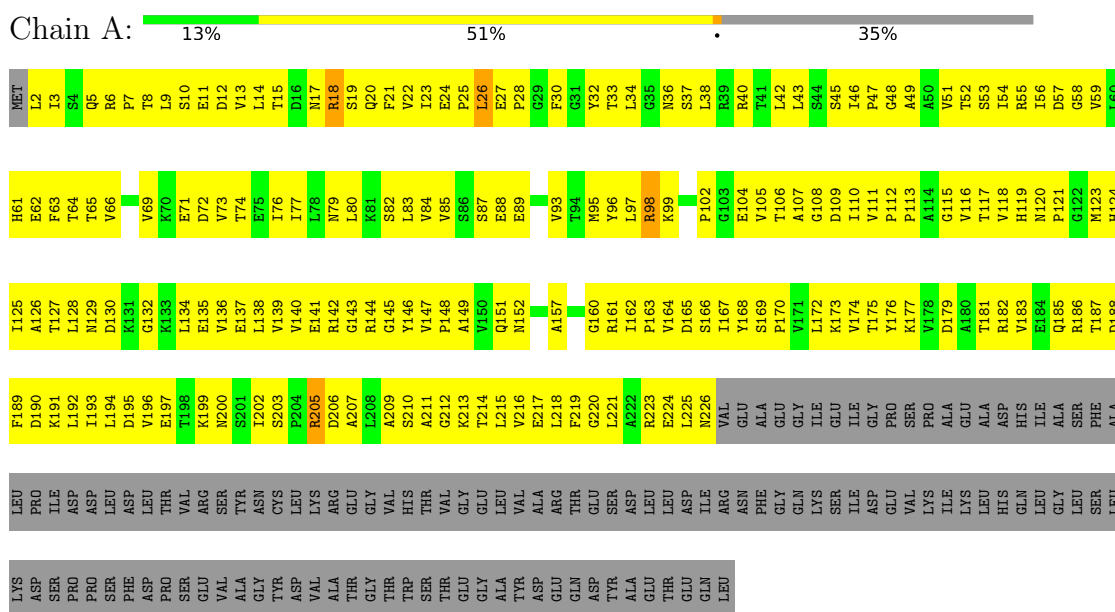


Mol	Chain	Residues	Atoms					AltConf
			Total	C	H	N	O	
11	D	1	78	30	40	1	7	0

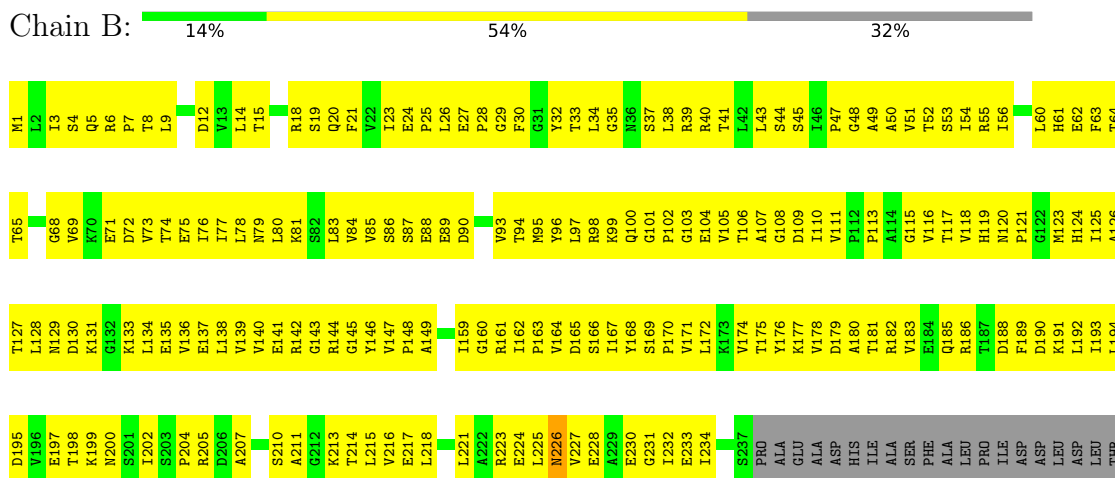
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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: DNA-directed RNA polymerase subunit alpha



- Molecule 1: DNA-directed RNA polymerase subunit alpha



A1
G2
C3
A4
C5
A6
A7
T8
T9
T10
A11
A12
C13
A14
C15
T16
T17
T18
T19
G20
T21
C22
A23
A24
G25
C26

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	223000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	69.9	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	1.726	Depositor
Minimum map value	-0.457	Depositor
Average map value	0.006	Depositor
Map value standard deviation	0.082	Depositor
Recommended contour level	0.3	Depositor
Map size (Å)	332.8, 332.8, 332.8	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.3, 1.3, 1.3	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: C0L, ZN, MG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	0.40	0/1742	0.56	1/2370 (0.0%)
1	B	0.41	0/1786	0.57	0/2435
2	C	0.44	2/8744 (0.0%)	0.59	6/11860 (0.1%)
3	D	0.41	0/10037	0.55	2/13570 (0.0%)
4	E	0.41	0/662	0.53	0/901
5	F	0.39	0/2549	0.55	2/3438 (0.1%)
6	J	0.36	0/897	0.55	0/1210
7	O	0.90	0/710	1.01	0/1095
8	P	0.94	0/589	0.99	0/906
All	All	0.45	2/27716 (0.0%)	0.60	11/37785 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1068	PHE	C-N	6.87	1.45	1.33
2	C	1074	TRP	CB-CG	5.99	1.61	1.50

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1074	TRP	CA-CB-CG	10.61	133.87	113.70
2	C	1074	TRP	N-CA-CB	9.36	127.45	110.60
5	F	447	ALA	C-N-CA	-7.47	103.02	121.70
2	C	686	GLN	C-N-CA	-7.12	103.89	121.70
1	A	26	LEU	C-N-CA	-6.78	104.74	121.70
2	C	1073	CYS	N-CA-C	-6.05	94.66	111.00
2	C	282	ARG	C-N-CD	5.68	140.33	128.40
3	D	834	ARG	C-N-CD	-5.33	108.88	120.60
2	C	1054	GLN	N-CA-C	-5.19	96.99	111.00
3	D	657	GLN	N-CA-C	5.18	124.99	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	225	ALA	N-CA-C	5.07	124.68	111.00

There are no chirality outliers.

There are no planarity outliers.

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	1716	0	1756	294	0
1	B	1759	0	1783	325	0
2	C	8586	0	8511	1348	0
3	D	9873	0	9941	1452	0
4	E	649	0	645	91	0
5	F	2518	0	2540	417	0
6	J	881	0	861	159	0
7	O	634	0	350	78	0
8	P	526	0	296	65	0
9	D	2	0	0	0	0
10	D	1	0	0	0	0
11	D	38	40	0	22	0
All	All	27183	40	26683	3865	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 72.

All (3865) 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)
5:F:415:GLN:HA	5:F:418:ARG:CD	1.03	1.48
3:D:1249:LYS:HE3	11:D:1404:COL:N31	1.28	1.46
5:F:415:GLN:CA	5:F:418:ARG:CD	1.97	1.39
5:F:439:ILE:CA	6:J:6:LEU:HD12	1.53	1.37
3:D:641:ARG:N	3:D:657:GLN:HG2	1.40	1.35
2:C:1073:CYS:O	2:C:1075:ALA:N	1.62	1.30
5:F:415:GLN:CA	5:F:418:ARG:HD3	1.57	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1051:MET:SD	5:F:441:ASP:CG	2.08	1.30
5:F:438:PHE:O	6:J:6:LEU:HG	1.26	1.28
2:C:229:LYS:O	2:C:230:ARG:HG2	1.36	1.17
5:F:415:GLN:HA	5:F:418:ARG:CG	1.74	1.16
5:F:439:ILE:HA	6:J:6:LEU:O	1.43	1.16
5:F:414:GLN:O	5:F:418:ARG:HG3	1.45	1.15
3:D:334:ARG:NH1	5:F:418:ARG:C	2.01	1.14
2:C:181:ARG:HA	2:C:376:ARG:HA	1.25	1.14
3:D:640:LEU:C	3:D:657:GLN:HG3	1.66	1.13
3:D:334:ARG:HH12	5:F:418:ARG:C	1.52	1.12
3:D:640:LEU:C	3:D:657:GLN:CG	2.18	1.11
2:C:96:ILE:HB	2:C:105:LEU:HB3	1.31	1.11
2:C:809:LYS:HB2	2:C:833:ARG:HB2	1.26	1.11
3:D:1249:LYS:CE	11:D:1404:C0L:N31	2.13	1.10
2:C:407:GLN:HB3	2:C:412:ILE:HG21	1.33	1.09
2:C:347:ARG:HB3	2:C:352:GLN:HG3	1.36	1.08
2:C:229:LYS:O	2:C:230:ARG:CG	2.01	1.07
2:C:1068:PHE:HB3	3:D:422:VAL:HG21	1.32	1.07
2:C:633:ARG:HD2	2:C:636:ILE:HD11	1.30	1.07
5:F:438:PHE:O	6:J:6:LEU:CG	2.04	1.06
5:F:415:GLN:HA	5:F:418:ARG:HD2	1.15	1.06
2:C:808:PRO:HA	2:C:832:VAL:HA	1.37	1.05
3:D:641:ARG:N	3:D:657:GLN:CG	2.18	1.05
2:C:215:ASP:HB2	2:C:223:GLY:HA3	1.38	1.04
5:F:439:ILE:CA	6:J:6:LEU:CD1	2.36	1.03
3:D:641:ARG:CA	3:D:657:GLN:HG2	1.87	1.03
5:F:439:ILE:HA	6:J:6:LEU:CD1	1.88	1.03
5:F:318:LEU:HA	5:F:321:ILE:HD12	1.40	1.03
5:F:364:ARG:HH12	5:F:419:GLU:HG2	1.22	1.03
5:F:439:ILE:CG1	6:J:6:LEU:CD1	2.37	1.02
1:A:69:VAL:HG12	1:A:128:LEU:HG	1.40	1.02
2:C:907:LEU:HD12	2:C:911:THR:HB	1.41	1.02
2:C:413:THR:HG22	2:C:416:THR:HG23	1.38	1.01
1:A:9:LEU:HA	1:A:23:ILE:HG12	1.41	1.01
3:D:743:LYS:HA	3:D:746:LEU:HD12	1.42	1.01
5:F:438:PHE:C	6:J:6:LEU:HD11	1.81	1.01
5:F:446:VAL:HG11	5:F:449:ASP:CG	1.80	1.01
5:F:440:GLU:N	6:J:6:LEU:O	1.94	1.00
1:A:49:ALA:HB2	1:A:142:ARG:HD2	1.43	1.00
5:F:446:VAL:HG11	5:F:449:ASP:OD2	1.61	1.00
3:D:1086:LEU:HB3	3:D:1099:LEU:HB3	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:74:THR:HA	1:B:77:ILE:HD12	1.44	0.99
5:F:438:PHE:C	6:J:6:LEU:CD1	2.30	0.99
1:B:105:VAL:HG23	1:B:128:LEU:HD11	1.42	0.99
3:D:443:LEU:HD12	3:D:444:PRO:HD2	1.45	0.99
2:C:204:VAL:HB	2:C:212:LEU:HD21	1.44	0.98
2:C:847:VAL:HG22	2:C:873:VAL:HG22	1.45	0.98
3:D:878:VAL:HG22	3:D:1000:ALA:HB1	1.43	0.98
1:A:179:ASP:HB2	1:A:191:LYS:HB3	1.45	0.98
2:C:1051:MET:SD	5:F:441:ASP:OD1	2.21	0.97
3:D:334:ARG:HH12	5:F:419:GLU:N	1.60	0.97
3:D:1088:VAL:HA	3:D:1098:VAL:HA	1.44	0.97
3:D:640:LEU:O	3:D:657:GLN:HG3	1.64	0.97
3:D:641:ARG:HA	3:D:657:GLN:CD	1.85	0.97
3:D:1055:LEU:HA	3:D:1064:ILE:HG23	1.46	0.96
1:B:21:PHE:HB2	1:B:194:LEU:HB2	1.46	0.96
3:D:345:ARG:HD2	5:F:365:THR:HG23	1.48	0.96
5:F:440:GLU:O	6:J:7:ARG:HA	1.65	0.96
3:D:235:ILE:HG21	3:D:241:TYR:HB2	1.45	0.95
2:C:853:PHE:HB2	2:C:868:LEU:HB3	1.47	0.95
2:C:1073:CYS:O	2:C:1074:TRP:C	1.98	0.95
2:C:192:ASP:HB2	2:C:199:LEU:HD11	1.46	0.95
1:B:12:ASP:HB3	1:B:20:GLN:HB3	1.49	0.95
2:C:208:ARG:HD3	2:C:307:ASP:HB2	1.48	0.95
2:C:507:ASN:HB3	2:C:511:PHE:H	1.32	0.95
5:F:364:ARG:NH1	5:F:419:GLU:HG2	1.80	0.95
3:D:1050:THR:HG22	3:D:1106:GLU:HA	1.45	0.94
5:F:503:ILE:HA	5:F:506:ILE:HD12	1.49	0.94
5:F:442:SER:HB3	6:J:7:ARG:HD3	1.49	0.94
3:D:923:ARG:HB3	3:D:962:VAL:HG21	1.50	0.94
2:C:1042:HIS:HB2	2:C:1060:LYS:HE2	1.50	0.94
5:F:415:GLN:HA	5:F:418:ARG:HD3	0.94	0.93
1:A:7:PRO:HA	1:A:25:PRO:HD2	1.49	0.93
1:B:97:LEU:HD21	1:B:105:VAL:HG11	1.50	0.93
3:D:616:ALA:HA	3:D:619:ILE:HD12	1.48	0.93
5:F:439:ILE:HG12	6:J:6:LEU:HD13	1.46	0.93
1:B:49:ALA:HA	1:B:142:ARG:HA	1.50	0.93
2:C:1128:LEU:HD11	11:D:1404:C0L:C03	1.99	0.93
5:F:439:ILE:CA	6:J:6:LEU:O	2.17	0.93
2:C:558:ARG:HB3	2:C:570:TYR:HB3	1.48	0.92
2:C:435:GLN:HE21	2:C:460:PRO:HD3	1.35	0.92
1:B:202:ILE:HD11	1:B:207:ALA:HB2	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:442:GLY:HA3	3:D:523:GLN:HB2	1.48	0.92
5:F:499:THR:HG21	7:O:3:DT:H2'	1.51	0.92
5:F:345:THR:HA	7:O:30:DC:H41	1.34	0.92
3:D:545:LEU:HD12	3:D:546:PRO:HD2	1.50	0.91
3:D:827:PRO:HG3	3:D:854:HIS:HB3	1.48	0.91
3:D:334:ARG:NH2	5:F:419:GLU:O	2.03	0.91
5:F:439:ILE:HA	6:J:6:LEU:HD12	0.92	0.91
7:O:11:DA:H2''	7:O:12:DG:H5''	1.51	0.91
5:F:390:LEU:HD21	5:F:392:ARG:HE	1.36	0.91
2:C:1067:ARG:HB2	3:D:421:ARG:HG3	1.50	0.91
1:B:3:ILE:HB	1:B:234:ILE:HA	1.50	0.91
1:A:54:ILE:HG22	1:A:138:LEU:HA	1.53	0.91
2:C:945:LYS:HA	2:C:965:GLU:HA	1.52	0.90
3:D:443:LEU:HD21	3:D:448:ALA:HB2	1.53	0.90
3:D:1050:THR:HG23	3:D:1107:VAL:HG23	1.52	0.90
5:F:439:ILE:N	6:J:6:LEU:CD1	2.35	0.90
2:C:334:THR:HG23	2:C:337:ASP:H	1.37	0.90
2:C:455:LEU:HD11	2:C:500:LEU:HD23	1.54	0.90
3:D:797:ASN:HB3	3:D:800:ILE:HG22	1.54	0.90
3:D:886:VAL:HG12	3:D:991:ILE:HG23	1.51	0.90
2:C:482:ARG:HB3	2:C:512:ILE:HD13	1.52	0.90
4:E:47:VAL:HG21	4:E:53:LEU:HB2	1.52	0.90
3:D:930:VAL:HA	3:D:936:VAL:HA	1.53	0.89
5:F:439:ILE:CG1	6:J:6:LEU:HD13	2.01	0.89
3:D:1181:ILE:HD11	3:D:1186:PHE:HB2	1.54	0.89
2:C:994:PRO:HB3	2:C:999:ASP:H	1.38	0.89
3:D:504:LEU:HD23	3:D:1005:GLU:HA	1.51	0.89
3:D:1166:THR:HB	3:D:1206:VAL:HG11	1.53	0.89
3:D:334:ARG:HD2	5:F:418:ARG:HB3	1.55	0.88
5:F:326:LEU:HA	5:F:329:ILE:HD12	1.52	0.88
5:F:440:GLU:O	6:J:7:ARG:CA	2.20	0.88
2:C:1067:ARG:HB2	3:D:421:ARG:CB	2.02	0.88
2:C:784:LEU:HA	2:C:790:VAL:HA	1.55	0.88
3:D:17:ALA:HA	3:D:20:ILE:HD12	1.54	0.88
3:D:636:ARG:HA	3:D:663:MET:HA	1.55	0.88
2:C:298:ASN:HA	2:C:302:LYS:HB3	1.55	0.88
3:D:195:ARG:HD3	3:D:198:ARG:HD3	1.53	0.88
1:A:157:ALA:HB1	1:A:161:ARG:HG3	1.53	0.88
1:B:78:LEU:HA	1:B:81:LYS:HE2	1.56	0.87
2:C:802:LEU:HD12	2:C:837:LEU:HG	1.56	0.87
2:C:541:VAL:HG22	2:C:578:TYR:HB2	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:101:ARG:HD3	6:J:104:LEU:HD13	1.56	0.87
2:C:1068:PHE:HB3	3:D:422:VAL:CG2	2.04	0.87
3:D:1235:ASP:HA	3:D:1238:ILE:HD12	1.54	0.87
5:F:487:ARG:HD2	5:F:491:GLU:HG2	1.56	0.87
5:F:438:PHE:HB2	6:J:6:LEU:HD21	1.54	0.87
5:F:439:ILE:HG13	6:J:6:LEU:CD1	2.03	0.87
1:B:192:LEU:HD21	1:B:194:LEU:HD21	1.56	0.87
3:D:937:ILE:HD11	3:D:951:ALA:HB1	1.57	0.87
2:C:608:GLY:HA2	2:C:611:MET:HE3	1.57	0.87
2:C:1044:ARG:HD2	2:C:1063:PHE:HB3	1.55	0.87
3:D:634:LYS:HG2	3:D:665:GLU:HB3	1.55	0.86
2:C:1051:MET:CE	5:F:441:ASP:OD1	2.17	0.86
2:C:245:SER:HB3	2:C:262:LEU:HD21	1.56	0.86
3:D:56:ARG:HG2	6:J:13:ALA:H	1.39	0.86
2:C:956:ALA:HA	2:C:959:LEU:HD12	1.56	0.86
3:D:71:LYS:HA	3:D:82:VAL:HG13	1.58	0.86
3:D:1063:LYS:HD3	3:D:1078:ASP:HA	1.56	0.86
5:F:439:ILE:N	6:J:6:LEU:HD11	1.91	0.86
5:F:479:PHE:HB2	5:F:481:LEU:HG	1.58	0.86
3:D:926:GLY:HA2	3:D:940:ARG:HG3	1.58	0.85
3:D:599:TYR:HB2	3:D:633:ILE:HA	1.59	0.85
6:J:28:GLN:HG3	6:J:46:ASP:HA	1.57	0.85
2:C:544:ALA:HB2	2:C:580:ASP:HB2	1.58	0.85
5:F:415:GLN:O	5:F:418:ARG:HB2	1.76	0.85
2:C:229:LYS:O	2:C:230:ARG:CB	2.24	0.85
2:C:1067:ARG:HB2	3:D:421:ARG:CG	2.06	0.85
1:B:101:GLY:HA2	1:B:131:LYS:HA	1.57	0.84
3:D:280:VAL:O	3:D:284:GLY:N	2.09	0.84
3:D:821:LYS:HB3	3:D:836:VAL:HG11	1.59	0.84
5:F:415:GLN:CB	5:F:418:ARG:HD3	2.07	0.84
2:C:62:GLU:HA	2:C:65:ILE:HD12	1.59	0.84
6:J:91:ILE:HA	6:J:94:LEU:HD12	1.58	0.84
3:D:354:LEU:HA	3:D:357:LEU:HD12	1.56	0.84
5:F:504:ARG:NH1	8:P:22:DC:OP2	2.11	0.84
3:D:641:ARG:CA	3:D:657:GLN:CG	2.53	0.84
3:D:185:GLU:HA	3:D:194:ARG:HH11	1.43	0.83
1:A:202:ILE:HD11	1:A:207:ALA:HB2	1.60	0.83
2:C:689:ILE:HG23	2:C:703:ALA:HA	1.58	0.83
3:D:902:ALA:HA	3:D:913:ASP:H	1.43	0.83
5:F:266:LEU:HD22	5:F:273:LEU:HD12	1.61	0.83
2:C:517:ARG:HG3	2:C:581:VAL:HA	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:946:VAL:N	2:C:964:LEU:O	2.11	0.83
3:D:965:VAL:HG11	3:D:1156:VAL:HG22	1.58	0.83
2:C:547:PRO:HB2	2:C:555:VAL:HB	1.61	0.83
3:D:420:LYS:HZ2	11:D:1404:C0L:C17	1.91	0.82
7:O:2:DC:H2'	7:O:3:DT:H71	1.61	0.82
1:A:128:LEU:HB3	1:A:132:GLY:HA3	1.61	0.82
2:C:801:ILE:HD13	2:C:838:LYS:HG2	1.61	0.82
5:F:223:ALA:O	5:F:224:SER:O	1.98	0.82
2:C:38:ARG:HD3	2:C:973:SER:HB3	1.62	0.82
5:F:348:THR:HA	5:F:351:ILE:HD12	1.59	0.82
3:D:612:TYR:HB2	3:D:635:VAL:HG12	1.59	0.82
1:B:106:THR:HG22	1:B:124:HIS:HA	1.61	0.82
5:F:364:ARG:HH12	5:F:419:GLU:CG	1.92	0.82
1:B:40:ARG:HH12	3:D:623:ASP:HB3	1.42	0.82
7:O:19:DA:H1'	7:O:20:DT:H5'	1.60	0.82
2:C:789:ILE:HG22	2:C:803:VAL:HG22	1.62	0.82
3:D:641:ARG:HA	3:D:657:GLN:CG	2.10	0.82
3:D:1033:GLU:HA	3:D:1036:GLU:HB2	1.59	0.82
3:D:139:VAL:HA	3:D:252:PHE:HA	1.59	0.81
1:B:100:GLN:HA	1:B:133:LYS:HA	1.61	0.81
2:C:222:VAL:HG21	2:C:234:VAL:H	1.45	0.81
3:D:1052:ARG:HA	3:D:1104:HIS:HA	1.62	0.81
2:C:1058:GLY:HA2	2:C:1064:GLY:HA2	1.63	0.81
2:C:1124:LEU:HD21	11:D:1404:C0L:C06	2.09	0.81
3:D:71:LYS:O	6:J:27:ARG:NH1	2.13	0.81
2:C:1067:ARG:CB	3:D:421:ARG:HA	2.11	0.81
5:F:229:ARG:HA	5:F:232:LEU:HD12	1.62	0.81
2:C:192:ASP:O	2:C:196:ASP:N	2.13	0.81
3:D:1044:ALA:HB3	3:D:1110:GLN:HE21	1.44	0.81
4:E:38:PRO:HG2	4:E:43:LEU:HD11	1.62	0.81
1:B:182:ARG:HG3	1:B:186:ARG:H	1.46	0.81
3:D:820:MET:HE3	3:D:837:LYS:HG2	1.63	0.81
3:D:84:ARG:HD3	3:D:86:LYS:HE3	1.61	0.80
3:D:928:ASP:OD1	3:D:940:ARG:N	2.14	0.80
3:D:189:ALA:HB3	3:D:194:ARG:HD3	1.63	0.80
3:D:640:LEU:C	3:D:657:GLN:HG2	1.92	0.80
5:F:476:ARG:HA	5:F:481:LEU:HB2	1.63	0.80
2:C:720:LEU:N	2:C:914:ASP:OD2	2.14	0.80
3:D:420:LYS:NZ	11:D:1404:C0L:C17	2.45	0.80
2:C:297:GLU:O	2:C:302:LYS:N	2.14	0.80
1:B:107:ALA:HB2	1:B:123:MET:HB3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1251:ASN:HD22	3:D:1259:PRO:HD3	1.47	0.80
2:C:225:ARG:HG3	2:C:230:ARG:H	1.47	0.80
2:C:767:GLU:HB3	2:C:805:LYS:HE3	1.64	0.80
5:F:478:ARG:HH22	8:P:20:DG:H5''	1.47	0.80
3:D:286:GLY:O	3:D:290:LEU:N	2.15	0.80
2:C:1137:VAL:HG21	3:D:7:PHE:HD1	1.47	0.80
3:D:1045:PRO:O	3:D:1111:LEU:N	2.15	0.79
3:D:739:PRO:HG2	3:D:742:LYS:HB2	1.63	0.79
5:F:502:ARG:NH1	5:F:505:GLN:OE1	2.14	0.79
1:B:52:THR:HB	1:B:139:VAL:HG12	1.64	0.79
3:D:432:VAL:HG13	3:D:434:PRO:HD3	1.62	0.79
3:D:428:SER:HB3	3:D:522:ILE:HD11	1.65	0.79
3:D:1208:MET:HG3	3:D:1213:ALA:HB2	1.63	0.79
4:E:82:LEU:N	4:E:98:GLU:OE2	2.15	0.79
2:C:1088:LEU:HD23	2:C:1092:LYS:HD2	1.64	0.79
3:D:353:ARG:NE	5:F:323:GLU:OE2	2.16	0.79
6:J:90:SER:HB3	6:J:93:GLU:HG3	1.65	0.79
2:C:1050:SER:H	2:C:1055:GLN:H	1.30	0.79
6:J:108:ARG:HD2	6:J:109:ARG:H	1.48	0.79
1:A:43:LEU:HD23	2:C:902:GLU:HB3	1.65	0.79
2:C:103:MET:HA	2:C:142:ASN:H	1.47	0.79
3:D:945:GLY:N	3:D:948:GLU:OE2	2.15	0.79
5:F:439:ILE:HG12	6:J:6:LEU:CD1	2.07	0.79
6:J:52:GLY:HA2	6:J:64:LEU:HB2	1.64	0.79
1:A:12:ASP:HB3	1:A:20:GLN:HB2	1.64	0.79
5:F:390:LEU:HG	5:F:392:ARG:HG2	1.64	0.79
2:C:644:ALA:N	2:C:700:GLN:O	2.12	0.79
3:D:151:LEU:HD22	3:D:248:TYR:HE1	1.48	0.79
3:D:929:ALA:N	3:D:938:VAL:O	2.15	0.79
1:A:147:VAL:HG12	1:A:166:SER:HB2	1.64	0.78
1:B:179:ASP:HB2	1:B:191:LYS:HB3	1.63	0.78
3:D:1254:ILE:HG13	3:D:1256:LYS:H	1.48	0.78
1:B:84:VAL:HG13	1:B:119:HIS:HB2	1.64	0.78
3:D:567:SER:N	3:D:572:ARG:O	2.15	0.78
5:F:487:ARG:HB3	5:F:491:GLU:HB2	1.64	0.78
1:B:7:PRO:HA	1:B:25:PRO:HD2	1.64	0.78
2:C:131:ALA:O	2:C:157:PHE:N	2.15	0.78
2:C:774:PRO:HG2	2:C:834:ASP:HB2	1.66	0.78
2:C:222:VAL:HG13	2:C:261:THR:HG21	1.66	0.78
2:C:463:LEU:HD13	2:C:468:ALA:HB2	1.64	0.78
1:A:209:ALA:HB2	1:B:225:LEU:HB2	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:344:SER:OG	7:O:30:DC:OP2	2.02	0.78
6:J:28:GLN:N	6:J:44:PHE:O	2.16	0.78
1:B:79:ASN:HB3	1:B:125:ILE:HG13	1.65	0.78
3:D:481:PRO:HA	3:D:484:TRP:HD1	1.49	0.78
5:F:415:GLN:CA	5:F:418:ARG:HD2	1.84	0.78
2:C:767:GLU:HA	2:C:807:THR:HG22	1.65	0.77
1:A:105:VAL:N	1:A:126:ALA:O	2.17	0.77
1:A:106:THR:N	1:A:109:ASP:OD2	2.17	0.77
3:D:1089:PHE:O	3:D:1097:ARG:N	2.17	0.77
5:F:438:PHE:O	6:J:6:LEU:CD1	2.29	0.77
3:D:599:TYR:OH	3:D:608:GLU:OE1	2.03	0.77
2:C:403:ARG:NH1	2:C:416:THR:O	2.18	0.77
3:D:902:ALA:HB1	3:D:912:ARG:HA	1.67	0.77
2:C:1051:MET:O	6:J:10:ARG:NH2	2.17	0.77
3:D:815:ARG:NH1	3:D:820:MET:O	2.18	0.77
2:C:107:PHE:HA	2:C:137:ALA:HA	1.66	0.77
5:F:500:ARG:NH1	8:P:21:DT:O4	2.17	0.77
1:A:107:ALA:HB2	1:A:123:MET:HB3	1.67	0.77
3:D:1062:TYR:HB2	3:D:1080:ILE:HB	1.66	0.77
3:D:891:CYS:HB2	3:D:969:ALA:HB3	1.66	0.76
3:D:893:THR:HB	3:D:969:ALA:HB2	1.65	0.76
2:C:233:PRO:HG2	2:C:236:VAL:HG23	1.67	0.76
3:D:500:ARG:HB2	3:D:541:MET:HG2	1.67	0.76
2:C:540:VAL:HG23	2:C:561:VAL:HG21	1.67	0.76
2:C:549:ASP:HB3	2:C:553:ARG:HB2	1.65	0.76
3:D:826:ASN:N	3:D:830:GLU:O	2.18	0.76
3:D:1047:ALA:N	3:D:1109:GLN:O	2.17	0.76
5:F:249:LEU:HD22	5:F:291:ALA:HB1	1.66	0.76
5:F:258:TYR:HB2	6:J:94:LEU:HD22	1.68	0.76
5:F:336:ASP:OD1	6:J:89:ARG:NH2	2.18	0.76
3:D:261:ILE:HA	3:D:264:LEU:HD12	1.66	0.76
5:F:463:VAL:O	5:F:466:THR:OG1	2.03	0.76
6:J:31:ARG:HG2	6:J:41:GLU:HG2	1.68	0.76
2:C:975:PRO:HB2	2:C:978:ASP:HB3	1.67	0.76
2:C:1124:LEU:HD23	11:D:1404:C0L:C02	2.16	0.76
1:B:106:THR:N	1:B:109:ASP:OD2	2.16	0.76
3:D:993:GLU:OE2	4:E:51:TYR:OH	2.03	0.76
3:D:342:ASP:OD1	5:F:365:THR:OG1	2.02	0.76
3:D:1190:ASN:HA	3:D:1193:VAL:HG12	1.67	0.76
3:D:1212:LYS:HA	3:D:1215:LEU:HD12	1.68	0.76
5:F:238:VAL:O	5:F:301:ARG:NH2	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:264:THR:HA	5:F:267:SER:HB3	1.68	0.76
3:D:885:ILE:HG22	3:D:994:ALA:HB2	1.68	0.76
1:B:1:MET:O	1:B:233:GLU:N	2.19	0.76
3:D:336:ALA:HB1	5:F:423:LEU:HD11	1.66	0.76
1:B:1:MET:HB2	1:B:232:ILE:HA	1.68	0.75
2:C:253:GLY:O	2:C:259:ARG:NH1	2.19	0.75
3:D:637:LEU:N	3:D:662:TRP:O	2.18	0.75
3:D:431:VAL:O	3:D:524:LEU:N	2.18	0.75
1:B:104:GLU:HG2	1:B:127:THR:HG22	1.69	0.75
1:B:105:VAL:N	1:B:126:ALA:O	2.19	0.75
1:B:183:VAL:HA	1:B:188:ASP:HA	1.68	0.75
2:C:652:GLU:O	2:C:659:THR:N	2.19	0.75
5:F:330:ARG:NH2	7:O:25:DC:OP2	2.19	0.75
2:C:62:GLU:O	2:C:66:GLY:N	2.20	0.75
2:C:231:ARG:HD2	5:F:211:ALA:HB2	1.67	0.75
2:C:1051:MET:HE3	5:F:441:ASP:OD1	1.85	0.75
1:A:40:ARG:HE	1:B:33:THR:HG22	1.52	0.75
1:B:107:ALA:N	1:B:123:MET:O	2.18	0.75
2:C:549:ASP:N	2:C:553:ARG:O	2.14	0.75
5:F:461:GLN:OE1	5:F:476:ARG:NH2	2.20	0.75
1:A:149:ALA:N	1:A:165:ASP:OD1	2.19	0.75
2:C:518:LYS:HA	2:C:578:TYR:HA	1.67	0.75
2:C:1054:GLN:O	2:C:1055:GLN:CG	2.34	0.75
1:B:98:ARG:HG2	1:B:135:GLU:HA	1.67	0.75
2:C:179:LEU:HD23	2:C:378:LEU:HD13	1.69	0.75
2:C:317:ASN:O	2:C:321:GLY:N	2.19	0.75
5:F:296:LEU:HD21	5:F:332:VAL:HG11	1.69	0.75
5:F:384:ARG:O	5:F:388:GLN:NE2	2.20	0.75
6:J:106:ARG:O	6:J:111:GLY:N	2.20	0.75
1:B:172:LEU:HD13	1:B:199:LYS:H	1.52	0.75
2:C:235:THR:HG21	2:C:265:ASP:HB3	1.68	0.75
2:C:514:THR:O	2:C:531:LEU:N	2.14	0.75
2:C:676:ALA:HB3	2:C:684:ALA:HB3	1.68	0.75
3:D:60:CYS:SG	3:D:64:LYS:N	2.60	0.75
7:O:22:DG:H1'	7:O:23:DT:H5'	1.68	0.75
2:C:102:SER:O	2:C:141:ASN:ND2	2.20	0.74
2:C:1072:GLU:OE2	3:D:503:THR:OG1	2.02	0.74
2:C:641:VAL:HG22	2:C:705:GLY:H	1.50	0.74
2:C:649:VAL:HA	2:C:695:ARG:HA	1.69	0.74
3:D:1051:GLY:O	3:D:1105:VAL:N	2.17	0.74
3:D:930:VAL:HG12	3:D:936:VAL:HG22	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:119:HIS:O	1:A:200:ASN:ND2	2.20	0.74
3:D:1066:ILE:HD12	3:D:1075:VAL:HB	1.68	0.74
5:F:331:ALA:HB2	5:F:350:TRP:HB2	1.67	0.74
1:B:169:SER:HB3	1:B:171:VAL:HG22	1.69	0.74
2:C:822:ARG:NH1	2:C:828:LYS:O	2.21	0.74
2:C:1044:ARG:NH1	2:C:1057:LEU:O	2.20	0.74
2:C:150:GLN:NE2	2:C:413:THR:OG1	2.20	0.74
3:D:557:ILE:O	3:D:563:ASN:ND2	2.20	0.74
2:C:174:VAL:HG23	2:C:440:MET:HB2	1.68	0.74
3:D:101:VAL:O	3:D:314:LEU:N	2.16	0.74
2:C:278:TYR:CE1	2:C:282:ARG:HD2	2.23	0.74
2:C:853:PHE:N	2:C:868:LEU:O	2.17	0.74
3:D:850:PHE:O	3:D:853:THR:OG1	2.05	0.74
5:F:447:ALA:O	5:F:448:VAL:C	2.18	0.74
2:C:902:GLU:OE1	2:C:902:GLU:N	2.20	0.74
3:D:1249:LYS:HD3	11:D:1404:C0L:C35	2.18	0.74
3:D:1269:ASN:HB2	4:E:109:GLY:HA3	1.69	0.74
3:D:265:ILE:HG21	3:D:310:MET:HA	1.68	0.73
5:F:318:LEU:HD23	5:F:321:ILE:HD12	1.70	0.73
5:F:310:TYR:O	5:F:313:ARG:NE	2.21	0.73
1:B:45:SER:O	1:B:144:ARG:NH1	2.21	0.73
2:C:563:ARG:N	2:C:567:GLU:O	2.21	0.73
3:D:1062:TYR:N	3:D:1080:ILE:O	2.18	0.73
2:C:592:ALA:HB1	2:C:630:MET:HG3	1.70	0.73
3:D:468:ASN:O	3:D:471:SER:OG	2.06	0.73
3:D:636:ARG:HB2	3:D:663:MET:HG2	1.69	0.73
3:D:768:ASP:HA	3:D:771:ASN:HD22	1.52	0.73
1:B:181:THR:HG21	1:B:191:LYS:HD3	1.70	0.73
2:C:941:HIS:ND1	2:C:969:ASN:OD1	2.21	0.73
3:D:431:VAL:HG23	3:D:523:GLN:HA	1.70	0.73
2:C:237:LEU:O	2:C:241:LEU:N	2.21	0.73
5:F:241:LEU:HB3	5:F:245:GLU:HG3	1.69	0.73
2:C:413:THR:O	2:C:416:THR:OG1	2.05	0.73
3:D:1270:ILE:O	4:E:59:LYS:NZ	2.20	0.73
3:D:498:LEU:H	3:D:509:ILE:HG23	1.54	0.73
3:D:756:VAL:HG21	3:D:777:ILE:HD11	1.70	0.73
2:C:38:ARG:NH1	2:C:625:LEU:O	2.22	0.73
3:D:1124:VAL:HG12	3:D:1125:GLN:HG3	1.70	0.73
3:D:1167:ILE:O	3:D:1178:GLY:N	2.19	0.73
5:F:299:ASN:HA	7:O:31:DT:H3	1.54	0.73
2:C:96:ILE:N	2:C:105:LEU:O	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:133:LEU:HD11	2:C:157:PHE:HB2	1.69	0.72
2:C:403:ARG:HD2	2:C:417:LEU:HA	1.71	0.72
3:D:1164:ARG:NH2	3:D:1216:ALA:O	2.22	0.72
3:D:56:ARG:NE	3:D:59:GLU:OE1	2.23	0.72
3:D:607:PRO:HG2	3:D:609:THR:HG22	1.72	0.72
3:D:798:PRO:HA	3:D:801:THR:HB	1.71	0.72
4:E:42:GLU:OE1	4:E:100:HIS:NE2	2.21	0.72
2:C:48:LEU:HB2	2:C:528:ILE:HD11	1.71	0.72
3:D:639:GLN:HA	3:D:657:GLN:O	1.88	0.72
1:A:14:LEU:HD11	1:A:20:GLN:HG3	1.71	0.72
1:A:26:LEU:HB2	1:A:190:ASP:HB2	1.71	0.72
1:B:146:TYR:O	3:D:624:ARG:NH2	2.18	0.72
2:C:106:SER:N	2:C:138:GLU:O	2.19	0.72
2:C:807:THR:O	2:C:833:ARG:N	2.23	0.72
3:D:354:LEU:HB2	3:D:370:GLU:HG2	1.71	0.72
6:J:54:TRP:N	6:J:61:GLU:OE2	2.22	0.72
2:C:618:LEU:HD22	2:C:748:THR:H	1.55	0.72
1:A:62:GLU:HA	1:A:73:VAL:HG11	1.71	0.72
1:B:103:GLY:O	1:B:128:LEU:N	2.19	0.72
2:C:633:ARG:HA	2:C:636:ILE:HG12	1.71	0.72
3:D:211:ARG:HD3	3:D:214:ARG:HH22	1.53	0.72
3:D:334:ARG:NH1	5:F:418:ARG:O	2.21	0.72
3:D:722:TYR:O	3:D:725:THR:OG1	2.07	0.72
1:A:105:VAL:O	1:A:125:ILE:N	2.21	0.72
2:C:98:ASP:OD2	2:C:102:SER:OG	2.03	0.72
3:D:931:ASP:N	3:D:935:ASN:O	2.22	0.72
1:A:192:LEU:HD21	1:A:194:LEU:HD12	1.70	0.72
2:C:658:ILE:HD11	2:C:688:PRO:HB3	1.69	0.72
3:D:524:LEU:HD11	3:D:528:VAL:HG21	1.70	0.72
5:F:415:GLN:CA	5:F:418:ARG:HG3	2.19	0.72
3:D:406:LEU:HB2	3:D:409:LYS:HB2	1.72	0.72
3:D:93:GLY:O	3:D:319:VAL:N	2.22	0.72
4:E:96:LEU:HA	4:E:99:ILE:HD12	1.71	0.72
1:A:172:LEU:HD23	1:A:199:LYS:HB3	1.72	0.71
3:D:36:TYR:OH	7:O:21:DT:OP1	2.07	0.71
3:D:50:LYS:HA	3:D:80:VAL:HG22	1.70	0.71
2:C:768:GLU:O	2:C:806:VAL:N	2.23	0.71
3:D:108:LYS:HG2	3:D:386:ARG:HG3	1.72	0.71
3:D:590:THR:HG23	3:D:630:ARG:HD2	1.71	0.71
1:A:13:VAL:HA	1:A:19:SER:HB2	1.72	0.71
1:A:107:ALA:HB3	1:A:121:PRO:HA	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:149:ALA:N	1:B:165:ASP:OD1	2.22	0.71
2:C:559:VAL:O	2:C:571:VAL:N	2.23	0.71
3:D:101:VAL:N	3:D:314:LEU:O	2.22	0.71
3:D:1065:THR:HG22	3:D:1074:GLU:HB3	1.72	0.71
2:C:705:GLY:N	2:C:708:THR:OG1	2.23	0.71
2:C:735:ILE:O	2:C:896:GLY:N	2.19	0.71
3:D:1090:LYS:HD2	3:D:1097:ARG:NE	2.06	0.71
1:A:172:LEU:HB2	1:A:199:LYS:HB3	1.70	0.71
3:D:670:ARG:NH1	3:D:685:ASN:OD1	2.21	0.71
3:D:1142:TYR:HB3	3:D:1147:VAL:HB	1.71	0.71
2:C:38:ARG:NH1	2:C:972:VAL:O	2.22	0.71
2:C:403:ARG:HB2	2:C:407:GLN:HE21	1.56	0.71
3:D:64:LYS:HD3	3:D:77:ARG:HH21	1.55	0.71
3:D:613:SER:N	3:D:617:GLU:OE1	2.24	0.71
2:C:761:ASP:OD2	2:C:866:ASN:ND2	2.24	0.71
1:B:75:GLU:HA	1:B:78:LEU:HD21	1.73	0.71
2:C:104:SER:N	2:C:140:ILE:O	2.21	0.71
3:D:412:ARG:HA	3:D:1227:GLN:HE21	1.56	0.71
1:B:12:ASP:N	1:B:20:GLN:O	2.23	0.71
2:C:1072:GLU:HA	2:C:1075:ALA:HB3	1.72	0.71
3:D:445:LYS:HA	3:D:516:LEU:HD22	1.73	0.71
1:A:46:ILE:HG22	1:A:170:PRO:HG2	1.71	0.71
2:C:889:HIS:NE2	2:C:933:GLU:OE1	2.21	0.70
3:D:1166:THR:HA	3:D:1180:LEU:HD23	1.71	0.70
1:A:10:SER:OG	1:A:22:VAL:O	2.07	0.70
2:C:780:VAL:HG23	2:C:781:LEU:HD12	1.72	0.70
2:C:1077:GLN:NE2	11:D:1404:C0L:O33	2.22	0.70
1:A:105:VAL:HG12	1:A:125:ILE:HD12	1.73	0.70
5:F:273:LEU:HD22	5:F:278:ARG:HB2	1.73	0.70
2:C:384:LEU:HA	2:C:387:ASN:HD22	1.55	0.70
2:C:435:GLN:O	2:C:438:GLN:NE2	2.21	0.70
2:C:563:ARG:HB3	2:C:567:GLU:H	1.56	0.70
6:J:90:SER:OG	6:J:92:GLU:OE1	2.08	0.70
2:C:1083:TYR:N	3:D:554:GLU:OE2	2.24	0.70
3:D:71:LYS:HD3	6:J:24:LEU:HD11	1.72	0.70
3:D:948:GLU:O	3:D:952:LEU:HG	1.91	0.70
3:D:1220:TRP:NE1	3:D:1243:ASP:HB2	2.06	0.70
6:J:28:GLN:NE2	6:J:46:ASP:O	2.25	0.70
3:D:222:ILE:HG13	3:D:244:LEU:HD12	1.73	0.70
2:C:174:VAL:N	2:C:438:GLN:O	2.22	0.70
2:C:1067:ARG:HB2	3:D:421:ARG:HA	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:134:TYR:O	3:D:235:ILE:N	2.24	0.70
3:D:1167:ILE:HG22	3:D:1177:PRO:HA	1.72	0.70
2:C:207:SER:OG	2:C:307:ASP:O	2.10	0.70
2:C:225:ARG:HE	2:C:230:ARG:HA	1.56	0.70
3:D:400:LYS:HG3	3:D:404:ASP:HB2	1.73	0.70
5:F:503:ILE:HD13	5:F:506:ILE:HD12	1.74	0.70
1:B:62:GLU:OE2	1:B:65:THR:OG1	2.08	0.70
2:C:802:LEU:N	2:C:837:LEU:O	2.17	0.70
3:D:566:LEU:HA	3:D:573:PRO:HA	1.73	0.70
2:C:715:LEU:N	2:C:1029:TYR:OH	2.25	0.69
3:D:579:LEU:O	3:D:583:THR:OG1	2.09	0.69
2:C:532:THR:N	2:C:535:GLU:OE2	2.21	0.69
2:C:644:ALA:O	2:C:699:GLY:N	2.25	0.69
3:D:391:VAL:H	3:D:399:LEU:HD12	1.57	0.69
3:D:505:HIS:CE1	3:D:507:LEU:HB2	2.28	0.69
3:D:1045:PRO:HB2	3:D:1111:LEU:HB2	1.74	0.69
5:F:438:PHE:CB	6:J:6:LEU:HD21	2.22	0.69
6:J:20:ARG:NH1	6:J:23:ASP:O	2.25	0.69
1:A:48:GLY:N	1:A:143:GLY:O	2.25	0.69
1:A:105:VAL:HB	1:A:126:ALA:H	1.56	0.69
2:C:1032:LYS:HE2	2:C:1036:LEU:HD21	1.73	0.69
2:C:493:ASN:HA	2:C:496:LEU:HD12	1.72	0.69
2:C:315:LYS:NZ	2:C:375:ASN:OD1	2.25	0.69
2:C:1067:ARG:HB2	3:D:421:ARG:CA	2.22	0.69
2:C:1128:LEU:CD1	11:D:1404:C0L:C03	2.69	0.69
3:D:420:LYS:NZ	11:D:1404:C0L:C23	2.55	0.69
3:D:825:THR:OG1	3:D:830:GLU:O	2.06	0.69
3:D:1045:PRO:HB2	3:D:1111:LEU:HD22	1.74	0.69
1:B:26:LEU:HB2	1:B:190:ASP:HB2	1.75	0.69
3:D:18:GLU:O	3:D:22:GLN:N	2.24	0.69
3:D:177:LEU:HD11	3:D:198:ARG:HA	1.74	0.69
1:B:134:LEU:HD11	1:B:136:VAL:HG23	1.74	0.69
2:C:1049:TYR:HA	2:C:1056:PRO:HA	1.75	0.69
3:D:445:LYS:NZ	3:D:518:GLU:OE2	2.23	0.69
5:F:317:PHE:CE2	5:F:321:ILE:HD11	2.28	0.69
1:A:48:GLY:O	1:A:143:GLY:N	2.21	0.69
1:B:52:THR:N	1:B:139:VAL:O	2.17	0.69
2:C:128:THR:HB	2:C:169:ASN:H	1.58	0.69
2:C:181:ARG:CA	2:C:376:ARG:HA	2.16	0.69
2:C:182:SER:O	2:C:186:TYR:OH	2.06	0.69
2:C:182:SER:N	2:C:375:ASN:O	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:507:ASN:HD22	2:C:511:PHE:HB2	1.58	0.69
2:C:802:LEU:HD21	2:C:839:VAL:HB	1.73	0.69
2:C:803:VAL:O	2:C:836:SER:OG	2.11	0.69
3:D:339:ASP:OD2	3:D:400:LYS:HB3	1.91	0.69
5:F:446:VAL:O	5:F:448:VAL:N	2.24	0.69
2:C:140:ILE:HG23	2:C:146:GLU:H	1.56	0.69
3:D:22:GLN:O	6:J:57:ARG:NH2	2.18	0.69
2:C:1119:GLU:OE2	3:D:89:ARG:NH1	2.26	0.69
3:D:406:LEU:HB2	3:D:409:LYS:HD3	1.74	0.69
3:D:433:GLY:N	3:D:524:LEU:O	2.25	0.69
3:D:1068:PRO:HD3	3:D:1074:GLU:HA	1.75	0.69
1:A:73:VAL:O	1:A:77:ILE:HG12	1.94	0.68
2:C:663:ASP:OD1	2:C:695:ARG:NH1	2.22	0.68
3:D:36:TYR:CE2	3:D:37:ARG:HB2	2.28	0.68
3:D:1052:ARG:HG3	3:D:1067:VAL:HG21	1.74	0.68
1:A:95:MET:HG3	1:A:138:LEU:HD13	1.75	0.68
2:C:1111:ASN:HB3	4:E:62:ARG:NH2	2.08	0.68
5:F:322:GLN:HA	5:F:325:ASN:HD22	1.55	0.68
2:C:108:SER:O	2:C:136:THR:N	2.27	0.68
2:C:987:GLY:O	2:C:990:SER:OG	2.09	0.68
3:D:147:GLU:O	3:D:151:LEU:HG	1.93	0.68
3:D:1049:VAL:HA	3:D:1107:VAL:HG13	1.75	0.68
3:D:1066:ILE:HB	3:D:1075:VAL:HB	1.74	0.68
2:C:473:ARG:NH1	2:C:494:ILE:O	2.20	0.68
3:D:144:ARG:O	3:D:148:LEU:HB2	1.93	0.68
2:C:133:LEU:O	2:C:154:MET:N	2.23	0.68
2:C:256:GLU:O	2:C:259:ARG:HG2	1.94	0.68
2:C:883:ASP:HB2	2:C:895:ILE:HD12	1.73	0.68
2:C:1043:ALA:HA	3:D:426:GLY:HA2	1.76	0.68
3:D:641:ARG:HB3	3:D:682:PRO:HA	1.76	0.68
3:D:1153:HIS:O	3:D:1157:ILE:HG12	1.94	0.68
5:F:342:LYS:N	7:O:29:DA:OP2	2.17	0.68
1:A:61:HIS:HA	1:A:162:ILE:HD11	1.76	0.68
2:C:651:GLU:OE2	2:C:667:ARG:NH1	2.27	0.68
5:F:500:ARG:NH2	8:P:20:DG:N7	2.42	0.68
1:A:36:ASN:HB2	2:C:1016:GLY:HA2	1.75	0.68
1:B:30:PHE:O	1:B:33:THR:OG1	2.10	0.68
2:C:313:ARG:HD3	2:C:331:SER:HA	1.74	0.68
2:C:380:THR:HG23	2:C:383:GLU:H	1.58	0.68
3:D:111:PRO:O	3:D:113:ARG:NH1	2.25	0.68
3:D:384:ASN:HD21	3:D:391:VAL:HG23	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:898:VAL:HA	3:D:960:VAL:O	1.94	0.68
5:F:256:GLY:HA2	5:F:284:ILE:HG22	1.76	0.68
1:B:51:VAL:HA	1:B:140:VAL:HG22	1.76	0.68
3:D:64:LYS:HB2	3:D:77:ARG:NH2	2.08	0.68
3:D:849:TYR:O	3:D:853:THR:HG23	1.94	0.68
5:F:352:ARG:HA	5:F:355:ILE:HD12	1.75	0.68
2:C:1050:SER:O	5:F:441:ASP:HB2	1.93	0.68
3:D:95:ILE:N	3:D:317:VAL:O	2.27	0.68
3:D:95:ILE:O	3:D:317:VAL:N	2.24	0.68
3:D:277:LEU:HD11	3:D:295:ARG:HH12	1.58	0.68
1:B:104:GLU:HA	1:B:127:THR:HA	1.75	0.68
2:C:1011:PHE:HE1	2:C:1018:PRO:HB3	1.58	0.68
3:D:35:ASN:HB3	3:D:38:THR:HG22	1.76	0.68
2:C:648:GLY:HA2	2:C:663:ASP:OD1	1.93	0.67
2:C:1095:ASP:O	2:C:1099:ARG:HG3	1.94	0.67
3:D:367:VAL:HG12	3:D:371:LYS:HE3	1.76	0.67
4:E:33:LEU:O	4:E:36:THR:HG22	1.94	0.67
2:C:403:ARG:HA	2:C:406:THR:OG1	1.94	0.67
2:C:756:GLU:HB2	2:C:870:ARG:HG2	1.75	0.67
2:C:1068:PHE:CB	3:D:422:VAL:HG21	2.20	0.67
2:C:674:LYS:HZ2	2:C:686:GLN:H	1.42	0.67
2:C:725:PRO:HA	2:C:730:ASN:HD21	1.57	0.67
2:C:769:ILE:HA	2:C:805:LYS:HA	1.75	0.67
2:C:827:GLU:OE2	5:F:524:ARG:NH2	2.27	0.67
2:C:1124:LEU:HD21	11:D:1404:COL:C05	2.24	0.67
2:C:661:MET:HA	2:C:667:ARG:HG2	1.76	0.67
3:D:49:GLU:HG2	3:D:88:ARG:NH1	2.10	0.67
3:D:826:ASN:HD21	3:D:828:LYS:HD2	1.58	0.67
4:E:70:GLN:HE22	4:E:76:LEU:HB2	1.59	0.67
5:F:261:GLN:O	5:F:265:GLU:HG2	1.95	0.67
1:A:15:THR:OG1	1:A:17:ASN:OD1	2.11	0.67
3:D:144:ARG:NH1	3:D:226:PHE:O	2.25	0.67
3:D:939:GLU:OE1	3:D:942:GLN:NE2	2.27	0.67
2:C:557:PRO:O	2:C:573:SER:N	2.28	0.67
3:D:925:LEU:HG	3:D:944:LEU:HD11	1.77	0.67
5:F:439:ILE:N	6:J:6:LEU:HD12	2.01	0.67
5:F:439:ILE:CB	6:J:6:LEU:HD12	2.25	0.67
1:A:169:SER:O	1:A:199:LYS:HD3	1.94	0.67
2:C:395:ARG:HA	2:C:398:ARG:HE	1.60	0.67
2:C:724:MET:O	2:C:730:ASN:ND2	2.28	0.67
2:C:192:ASP:OD1	2:C:194:SER:OG	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:956:ALA:HA	2:C:959:LEU:CD1	2.25	0.67
2:C:1072:GLU:OE2	3:D:499:ASN:ND2	2.24	0.67
5:F:242:ASN:OD1	5:F:245:GLU:HG2	1.95	0.67
1:A:223:ARG:HD3	1:B:216:VAL:HG11	1.77	0.66
2:C:604:ARG:NH1	2:C:607:MET:SD	2.68	0.66
2:C:1094:ASP:HB3	2:C:1119:GLU:H	1.60	0.66
6:J:32:TYR:CD1	6:J:64:LEU:HA	2.29	0.66
1:B:88:GLU:N	1:B:89:GLU:OE1	2.28	0.66
2:C:123:LYS:HA	2:C:170:GLY:HA2	1.76	0.66
2:C:140:ILE:HG12	2:C:147:ILE:HA	1.77	0.66
2:C:207:SER:H	2:C:308:LEU:HA	1.58	0.66
2:C:259:ARG:O	2:C:263:GLU:HG2	1.95	0.66
2:C:768:GLU:HB3	2:C:806:VAL:HG13	1.77	0.66
2:C:944:TRP:HB2	2:C:991:CYS:SG	2.35	0.66
3:D:742:LYS:HG2	3:D:746:LEU:HD11	1.76	0.66
3:D:905:ALA:N	3:D:909:THR:O	2.27	0.66
1:A:7:PRO:HB3	1:A:25:PRO:O	1.94	0.66
2:C:347:ARG:HA	2:C:350:GLU:HB3	1.78	0.66
2:C:677:ARG:NE	2:C:752:ILE:O	2.28	0.66
2:C:1067:ARG:CB	3:D:421:ARG:HG3	2.22	0.66
3:D:222:ILE:HB	3:D:240:LEU:HD11	1.77	0.66
5:F:252:ARG:CZ	5:F:291:ALA:HB2	2.24	0.66
5:F:264:THR:O	5:F:267:SER:OG	2.08	0.66
5:F:296:LEU:O	5:F:300:LEU:HG	1.95	0.66
2:C:243:TRP:HA	2:C:247:GLN:OE1	1.95	0.66
2:C:558:ARG:NE	2:C:570:TYR:O	2.27	0.66
2:C:656:ASP:O	2:C:672:MET:N	2.26	0.66
2:C:1136:GLU:OE2	3:D:11:ARG:NH2	2.28	0.66
3:D:328:VAL:O	3:D:336:ALA:N	2.19	0.66
3:D:1207:LEU:HD22	3:D:1208:MET:H	1.58	0.66
2:C:130:ALA:HA	2:C:158:PRO:HA	1.77	0.66
2:C:568:VAL:HG21	3:D:847:LEU:HD23	1.76	0.66
3:D:334:ARG:CZ	5:F:419:GLU:O	2.44	0.66
3:D:557:ILE:HD12	4:E:54:VAL:HG22	1.76	0.66
3:D:633:ILE:HD12	3:D:635:VAL:HG13	1.78	0.66
3:D:1088:VAL:HB	3:D:1098:VAL:HG23	1.77	0.66
5:F:488:THR:N	5:F:491:GLU:OE1	2.27	0.66
1:B:97:LEU:HD13	1:B:110:ILE:HA	1.76	0.66
2:C:470:LEU:CD2	2:C:473:ARG:HD2	2.25	0.66
2:C:488:THR:HG22	2:C:606:LEU:HD11	1.77	0.66
2:C:356:THR:OG1	2:C:360:GLY:O	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:561:VAL:O	2:C:568:VAL:HA	1.96	0.66
2:C:820:LEU:HD13	5:F:479:PHE:HE2	1.60	0.66
5:F:283:TRP:CE3	6:J:105:ILE:HD12	2.30	0.66
5:F:302:LEU:N	7:O:31:DT:O2	2.25	0.66
1:A:173:LYS:HB3	1:A:197:GLU:OE1	1.96	0.66
2:C:441:ASP:OD1	2:C:680:HIS:NE2	2.28	0.66
3:D:142:GLU:OE1	3:D:142:GLU:N	2.28	0.66
2:C:777:SER:O	2:C:781:LEU:HD13	1.96	0.66
2:C:1051:MET:SD	5:F:441:ASP:OD2	2.54	0.66
5:F:478:ARG:O	5:F:486:PRO:HB3	1.96	0.66
1:A:98:ARG:HG3	1:A:135:GLU:HA	1.77	0.66
2:C:822:ARG:O	2:C:826:GLY:N	2.29	0.66
2:C:955:TRP:HA	2:C:958:ARG:HH12	1.61	0.66
3:D:207:GLN:O	3:D:211:ARG:HG2	1.96	0.66
3:D:913:ASP:HB3	3:D:916:ILE:HD11	1.78	0.66
3:D:1220:TRP:HB3	3:D:1241:ARG:HH21	1.61	0.66
2:C:861:LEU:HD23	2:C:865:VAL:HG12	1.78	0.65
5:F:233:LYS:O	5:F:237:LYS:HG3	1.96	0.65
5:F:489:LEU:HD22	5:F:503:ILE:HB	1.77	0.65
1:B:3:ILE:CB	1:B:234:ILE:HA	2.26	0.65
2:C:891:ASN:ND2	2:C:930:GLN:OE1	2.22	0.65
3:D:61:TYR:HB3	3:D:78:CYS:HB2	1.78	0.65
3:D:274:ALA:O	3:D:278:ARG:HG2	1.96	0.65
3:D:638:THR:O	3:D:657:GLN:O	2.14	0.65
5:F:217:LYS:O	5:F:220:GLU:HG3	1.97	0.65
1:B:73:VAL:HG12	1:B:77:ILE:HD11	1.78	0.65
2:C:1012:ASP:HB3	2:C:1015:SER:OG	1.95	0.65
3:D:277:LEU:HB2	3:D:296:LEU:HD13	1.79	0.65
5:F:336:ASP:OD1	5:F:338:THR:N	2.29	0.65
1:A:43:LEU:HD21	2:C:901:VAL:HG13	1.79	0.65
2:C:646:GLU:HG2	2:C:647:SER:O	1.95	0.65
3:D:139:VAL:HG13	3:D:141:GLU:HG2	1.78	0.65
1:A:52:THR:N	1:A:139:VAL:O	2.23	0.65
2:C:96:ILE:O	2:C:105:LEU:N	2.23	0.65
3:D:260:SER:O	3:D:264:LEU:HG	1.97	0.65
3:D:1068:PRO:HD2	3:D:1074:GLU:HG2	1.78	0.65
5:F:440:GLU:O	6:J:7:ARG:HB2	1.96	0.65
5:F:478:ARG:NH1	5:F:488:THR:HA	2.12	0.65
3:D:57:ASP:HB3	3:D:58:TRP:CE3	2.32	0.65
3:D:353:ARG:HD3	5:F:322:GLN:HB3	1.78	0.65
3:D:641:ARG:NH1	3:D:680:GLY:O	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:642:VAL:O	2:C:702:ILE:HG22	1.96	0.65
3:D:927:THR:CG2	3:D:961:LYS:HB3	2.27	0.65
1:A:102:PRO:HD3	1:A:130:ASP:HA	1.78	0.65
2:C:51:PRO:O	2:C:633:ARG:NH2	2.29	0.65
2:C:786:GLU:OE1	2:C:786:GLU:N	2.30	0.65
3:D:1272:VAL:HG22	4:E:106:HIS:HB2	1.78	0.65
5:F:335:PHE:CE1	5:F:343:PHE:HA	2.32	0.65
7:O:9:DA:H1'	7:O:10:DA:H5'	1.78	0.65
8:P:1:DA:H1'	8:P:2:DG:O4'	1.97	0.65
2:C:822:ARG:HD3	2:C:827:GLU:HB2	1.77	0.65
3:D:206:ARG:HB2	3:D:209:ARG:NH2	2.11	0.65
3:D:641:ARG:O	3:D:683:PHE:N	2.30	0.65
3:D:713:VAL:HA	3:D:716:LEU:HD12	1.78	0.65
5:F:316:ALA:O	5:F:320:LEU:HG	1.97	0.65
1:B:213:LYS:NZ	1:B:217:GLU:OE2	2.24	0.65
2:C:189:GLU:HA	2:C:199:LEU:O	1.97	0.65
2:C:208:ARG:NH2	2:C:304:LYS:O	2.25	0.65
2:C:691:ASP:N	2:C:694:ASP:OD2	2.28	0.65
2:C:1096:THR:HA	2:C:1099:ARG:NH2	2.11	0.65
3:D:329:GLN:NE2	6:J:9:SER:OG	2.22	0.65
3:D:921:TYR:HE1	3:D:949:ILE:HG13	1.62	0.65
5:F:440:GLU:O	6:J:7:ARG:CB	2.45	0.65
5:F:478:ARG:HH11	5:F:488:THR:HA	1.62	0.65
2:C:517:ARG:O	2:C:579:MET:N	2.16	0.64
3:D:931:ASP:HB3	3:D:935:ASN:OD1	1.97	0.64
3:D:1147:VAL:HG12	3:D:1149:ILE:HG12	1.77	0.64
2:C:103:MET:HB2	2:C:139:PHE:CZ	2.33	0.64
2:C:238:LEU:HB3	2:C:243:TRP:HB2	1.79	0.64
3:D:699:ASP:OD1	3:D:703:ARG:NH1	2.30	0.64
3:D:1211:THR:O	3:D:1215:LEU:HG	1.97	0.64
1:B:226:ASN:HD21	1:B:228:GLU:HB2	1.60	0.64
2:C:48:LEU:HD22	2:C:528:ILE:HD13	1.78	0.64
2:C:1073:CYS:C	2:C:1075:ALA:N	2.48	0.64
3:D:821:LYS:HB3	3:D:836:VAL:CG1	2.28	0.64
3:D:1100:SER:N	3:D:1103:ASP:OD2	2.30	0.64
5:F:407:PRO:O	5:F:411:LEU:HG	1.97	0.64
5:F:414:GLN:C	5:F:418:ARG:HG3	2.17	0.64
1:B:172:LEU:HD13	1:B:199:LYS:N	2.11	0.64
1:B:182:ARG:HD3	1:B:185:GLN:HB3	1.79	0.64
2:C:604:ARG:HD2	2:C:607:MET:SD	2.37	0.64
3:D:27:GLU:OE2	3:D:96:GLU:N	2.20	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:223:TRP:O	3:D:227:THR:HG23	1.96	0.64
3:D:1265:ASN:OD1	3:D:1268:ARG:NH2	2.22	0.64
1:A:157:ALA:CB	1:A:161:ARG:HG3	2.26	0.64
3:D:58:TRP:CD2	3:D:68:VAL:HG22	2.33	0.64
3:D:148:LEU:HA	3:D:151:LEU:HD12	1.78	0.64
3:D:510:GLN:OE1	3:D:561:SER:HA	1.97	0.64
3:D:891:CYS:HB3	3:D:970:THR:HG23	1.79	0.64
5:F:467:LEU:HB3	5:F:471:GLU:OE1	1.97	0.64
6:J:55:LEU:HA	6:J:61:GLU:HA	1.80	0.64
6:J:64:LEU:HD23	6:J:66:GLU:H	1.63	0.64
1:B:214:THR:HA	1:B:217:GLU:OE1	1.97	0.64
2:C:347:ARG:NH2	2:C:352:GLN:OE1	2.31	0.64
3:D:64:LYS:HB2	3:D:77:ARG:HH21	1.63	0.64
3:D:383:ASP:HA	3:D:401:SER:OG	1.98	0.64
3:D:1068:PRO:CD	3:D:1074:GLU:HG2	2.28	0.64
3:D:1276:GLU:HG2	3:D:1279:ARG:HE	1.62	0.64
5:F:258:TYR:CG	6:J:94:LEU:HB3	2.32	0.64
1:B:147:VAL:HG12	1:B:166:SER:HB2	1.78	0.64
2:C:200:HIS:HB2	2:C:216:VAL:HG21	1.79	0.64
2:C:239:LYS:HB3	2:C:270:THR:HA	1.80	0.64
2:C:540:VAL:HG13	2:C:577:ASP:H	1.63	0.64
3:D:999:ALA:HB1	3:D:1153:HIS:HB3	1.80	0.64
6:J:106:ARG:HA	6:J:110:ARG:HG2	1.80	0.64
2:C:245:SER:OG	2:C:262:LEU:HD11	1.97	0.64
2:C:403:ARG:HB2	2:C:407:GLN:HG2	1.79	0.64
2:C:414:PRO:HA	2:C:417:LEU:HB2	1.80	0.64
3:D:603:SER:HA	3:D:606:HIS:O	1.97	0.64
2:C:186:TYR:O	2:C:202:VAL:HA	1.97	0.64
2:C:298:ASN:HA	2:C:302:LYS:CB	2.26	0.64
2:C:442:GLN:O	2:C:678:SER:OG	2.16	0.64
2:C:707:CYS:O	2:C:714:ALA:N	2.31	0.64
2:C:767:GLU:HG2	2:C:807:THR:HG21	1.80	0.64
3:D:52:PHE:O	3:D:91:ARG:HD2	1.98	0.64
3:D:75:CYS:SG	3:D:78:CYS:N	2.61	0.64
3:D:1128:ARG:O	3:D:1132:ILE:HG12	1.98	0.64
2:C:133:LEU:CB	2:C:154:MET:HB3	2.27	0.64
2:C:240:ALA:HA	2:C:274:LEU:CD2	2.28	0.64
3:D:75:CYS:HB3	3:D:78:CYS:SG	2.37	0.64
3:D:505:HIS:HE1	3:D:507:LEU:HB2	1.61	0.64
3:D:802:ILE:HG23	3:D:807:ALA:HB3	1.80	0.64
1:B:108:GLY:N	1:B:121:PRO:O	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:485:PRO:O	3:D:857:ARG:NH2	2.31	0.63
2:C:1134:ASN:HB2	3:D:15:ALA:HA	1.80	0.63
3:D:1139:GLN:O	3:D:1143:ARG:HG3	1.98	0.63
3:D:1181:ILE:HD12	3:D:1185:GLU:HG2	1.81	0.63
1:A:76:ILE:O	1:A:80:LEU:HG	1.98	0.63
1:B:97:LEU:N	1:B:136:VAL:O	2.29	0.63
2:C:229:LYS:HZ2	2:C:281:LEU:HD12	1.63	0.63
3:D:277:LEU:HD23	3:D:296:LEU:HB2	1.80	0.63
1:A:15:THR:OG1	1:A:18:ARG:HG3	1.98	0.63
1:A:43:LEU:HD23	2:C:902:GLU:CB	2.28	0.63
1:B:171:VAL:HA	1:B:198:THR:HG22	1.79	0.63
2:C:132:PRO:HB3	2:C:153:PHE:HE1	1.63	0.63
2:C:139:PHE:O	2:C:148:LYS:N	2.30	0.63
2:C:628:THR:N	2:C:631:GLU:OE2	2.28	0.63
2:C:737:LEU:HD12	2:C:895:ILE:HG23	1.79	0.63
4:E:39:PRO:O	4:E:43:LEU:HG	1.98	0.63
1:B:79:ASN:CB	1:B:125:ILE:HG13	2.28	0.63
2:C:274:LEU:HG	2:C:292:ALA:HB1	1.80	0.63
2:C:610:ASN:O	2:C:613:ARG:HG2	1.99	0.63
2:C:809:LYS:HB3	2:C:831:GLU:O	1.98	0.63
2:C:1048:PRO:O	2:C:1056:PRO:HA	1.97	0.63
2:C:1109:GLY:HA3	3:D:458:LYS:HE3	1.79	0.63
3:D:35:ASN:CB	3:D:38:THR:HG22	2.28	0.63
3:D:173:ARG:NH1	3:D:204:GLU:OE1	2.31	0.63
3:D:277:LEU:CB	3:D:296:LEU:HD13	2.29	0.63
3:D:439:HIS:CE1	4:E:33:LEU:HD11	2.34	0.63
3:D:459:ARG:HA	3:D:462:ASP:OD2	1.97	0.63
3:D:708:VAL:HG22	4:E:29:TYR:HB2	1.80	0.63
3:D:939:GLU:HG2	3:D:940:ARG:O	1.97	0.63
3:D:1052:ARG:O	3:D:1067:VAL:HB	1.98	0.63
1:B:14:LEU:HB2	1:B:18:ARG:O	1.99	0.63
2:C:261:THR:O	2:C:265:ASP:N	2.32	0.63
2:C:353:THR:HG23	2:C:354:THR:HG22	1.80	0.63
2:C:1003:ASP:OD1	2:C:1007:LYS:N	2.30	0.63
2:C:1124:LEU:CD2	11:D:1404:C0L:C02	2.77	0.63
3:D:493:GLU:HA	4:E:35:ILE:HD13	1.79	0.63
3:D:982:SER:HB3	3:D:985:THR:OG1	1.99	0.63
1:A:24:GLU:HB2	1:A:25:PRO:HA	1.81	0.63
1:A:182:ARG:HA	1:A:188:ASP:HB3	1.81	0.63
3:D:30:LYS:HD2	3:D:43:LYS:O	1.99	0.63
3:D:106:TYR:HB3	3:D:114:LEU:HG	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1249:LYS:CD	11:D:1404:C0L:N31	2.61	0.63
5:F:440:GLU:O	6:J:8:GLY:N	2.31	0.63
8:P:17:DT:H2''	8:P:18:DT:H71	1.80	0.63
1:B:171:VAL:HA	1:B:198:THR:CG2	2.29	0.63
2:C:443:ASN:ND2	2:C:613:ARG:O	2.28	0.63
2:C:465:ARG:NH2	2:C:492:PRO:O	2.29	0.63
2:C:563:ARG:NH2	2:C:569:GLU:OE1	2.30	0.63
2:C:770:THR:N	2:C:804:GLY:O	2.28	0.63
3:D:244:LEU:O	3:D:247:ARG:N	2.30	0.63
3:D:411:GLY:HA2	3:D:1228:GLU:H	1.64	0.63
3:D:670:ARG:HD3	3:D:685:ASN:HA	1.81	0.63
3:D:803:VAL:HG22	3:D:808:THR:O	1.99	0.63
3:D:894:GLU:O	3:D:961:LYS:NZ	2.20	0.63
6:J:109:ARG:HH12	6:J:110:ARG:HH21	1.46	0.63
2:C:469:GLY:O	2:C:472:VAL:HG22	1.98	0.63
2:C:716:GLY:HA3	2:C:1030:ILE:O	1.99	0.63
5:F:334:LYS:HD3	5:F:350:TRP:CZ2	2.33	0.63
5:F:378:LYS:O	5:F:382:ILE:HG12	1.97	0.63
5:F:440:GLU:HB3	6:J:7:ARG:HB3	1.80	0.63
6:J:52:GLY:CA	6:J:64:LEU:HB2	2.28	0.63
2:C:771:ARG:O	2:C:773:ILE:HG12	1.98	0.63
2:C:831:GLU:OE1	2:C:831:GLU:N	2.32	0.63
3:D:190:LYS:NZ	3:D:192:ASP:HB3	2.13	0.63
3:D:457:MET:HE3	3:D:473:LYS:N	2.14	0.63
5:F:228:VAL:O	5:F:232:LEU:HG	1.99	0.63
5:F:355:ILE:O	5:F:359:MET:HG3	1.99	0.63
1:A:129:ASN:OD1	1:A:132:GLY:N	2.32	0.62
2:C:144:THR:HG23	2:C:146:GLU:OE1	1.99	0.62
2:C:451:HIS:HA	2:C:454:ARG:NH2	2.13	0.62
2:C:476:HIS:ND1	2:C:477:PRO:HD2	2.14	0.62
2:C:507:ASN:HB3	2:C:511:PHE:N	2.10	0.62
2:C:1054:GLN:O	2:C:1055:GLN:HG2	1.97	0.62
3:D:737:LEU:HB2	3:D:793:TYR:CE1	2.34	0.62
3:D:1251:ASN:HA	3:D:1254:ILE:HG12	1.79	0.62
3:D:1274:PRO:HA	4:E:104:LEU:HD23	1.79	0.62
3:D:174:ALA:O	3:D:178:GLU:HG3	1.99	0.62
3:D:1273:GLN:O	4:E:105:GLU:HG2	1.99	0.62
2:C:958:ARG:HD3	2:C:958:ARG:H	1.64	0.62
2:C:1057:LEU:HD21	2:C:1062:GLN:HE21	1.64	0.62
3:D:228:LYS:O	3:D:233:GLN:NE2	2.20	0.62
3:D:1036:GLU:HB3	3:D:1038:ARG:HG2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:67:TYR:CZ	4:E:71:LEU:HD21	2.33	0.62
5:F:446:VAL:HG21	5:F:449:ASP:OD2	1.98	0.62
5:F:501:GLU:OE1	5:F:504:ARG:NE	2.18	0.62
1:A:89:GLU:OE1	1:A:89:GLU:N	2.33	0.62
1:A:142:ARG:NH2	1:B:230:GLU:OE1	2.33	0.62
1:B:9:LEU:HD13	1:B:23:ILE:HD11	1.79	0.62
2:C:514:THR:N	2:C:531:LEU:O	2.24	0.62
2:C:622:GLU:H	2:C:717:LYS:HE2	1.64	0.62
2:C:660:VAL:HG22	2:C:668:ARG:O	2.00	0.62
3:D:60:CYS:HB2	3:D:78:CYS:SG	2.39	0.62
3:D:103:HIS:HB3	3:D:106:TYR:HD2	1.64	0.62
3:D:435:GLN:HG2	3:D:436:LEU:HD23	1.80	0.62
3:D:696:ILE:O	3:D:700:LEU:HG	1.99	0.62
3:D:968:CYS:SG	3:D:975:CYS:N	2.69	0.62
3:D:1062:TYR:HB2	3:D:1080:ILE:CG2	2.29	0.62
2:C:55:ASP:HA	2:C:58:THR:OG1	2.00	0.62
2:C:781:LEU:HA	2:C:784:LEU:HD13	1.82	0.62
4:E:83:VAL:HG13	4:E:97:ARG:HH21	1.65	0.62
1:A:181:THR:HG21	1:A:189:PHE:CE2	2.34	0.62
1:B:7:PRO:HB3	1:B:25:PRO:O	1.99	0.62
2:C:624:PRO:HA	2:C:718:ASN:HD21	1.64	0.62
2:C:927:ASN:O	2:C:930:GLN:HG2	2.00	0.62
3:D:268:PHE:HE2	3:D:270:ILE:HG22	1.64	0.62
3:D:823:LEU:HD23	3:D:835:PRO:HB3	1.79	0.62
3:D:889:HIS:O	3:D:977:THR:HG23	1.99	0.62
3:D:1009:GLN:O	3:D:1145:GLN:NE2	2.32	0.62
3:D:1270:ILE:HG22	3:D:1272:VAL:HG23	1.80	0.62
1:A:170:PRO:O	1:A:199:LYS:HG2	2.00	0.62
2:C:133:LEU:HB2	2:C:154:MET:HB3	1.79	0.62
2:C:200:HIS:HB2	2:C:216:VAL:CG2	2.29	0.62
2:C:549:ASP:HB3	2:C:553:ARG:CB	2.30	0.62
3:D:1117:ASP:OD2	3:D:1119:HIS:HB2	2.00	0.62
3:D:1189:GLU:OE2	3:D:1192:ARG:NH2	2.28	0.62
5:F:329:ILE:HG22	5:F:333:GLU:OE2	2.00	0.62
5:F:460:LEU:HD13	5:F:464:LEU:HD13	1.79	0.62
5:F:488:THR:HB	8:P:20:DG:OP2	1.98	0.62
1:A:12:ASP:O	1:A:20:GLN:N	2.24	0.62
2:C:295:LEU:O	2:C:299:LEU:HG	2.00	0.62
2:C:507:ASN:ND2	2:C:509:PHE:HB2	2.15	0.62
2:C:631:GLU:OE1	2:C:631:GLU:N	2.31	0.62
2:C:740:ARG:NH1	2:C:744:GLU:OE1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:815:THR:HB	2:C:817:GLU:OE1	2.00	0.62
3:D:83:THR:HG23	3:D:84:ARG:O	1.99	0.62
3:D:1162:LEU:HD23	3:D:1207:LEU:HD23	1.82	0.62
6:J:34:THR:CG2	6:J:38:GLU:HB2	2.30	0.62
1:A:52:THR:HB	1:A:139:VAL:HG12	1.81	0.62
2:C:41:PHE:CD2	2:C:980:ALA:HB2	2.35	0.62
3:D:151:LEU:HD22	3:D:248:TYR:CE1	2.33	0.62
5:F:455:LEU:HA	5:F:458:ASP:OD2	2.00	0.62
1:A:181:THR:OG1	1:A:189:PHE:N	2.28	0.62
2:C:559:VAL:N	2:C:571:VAL:O	2.31	0.62
2:C:650:ILE:CG2	2:C:692:ALA:HA	2.30	0.62
2:C:855:ARG:HE	2:C:861:LEU:HB2	1.65	0.62
2:C:1137:VAL:O	3:D:-1:GLY:N	2.26	0.62
2:C:1139:SER:HA	3:D:8:ASP:H	1.65	0.62
3:D:245:VAL:HA	3:D:252:PHE:HZ	1.65	0.62
3:D:885:ILE:HG22	3:D:994:ALA:CB	2.30	0.62
7:O:2:DC:H2'	7:O:3:DT:C7	2.30	0.62
1:B:3:ILE:HD13	1:B:234:ILE:HG12	1.81	0.61
1:B:18:ARG:NH1	1:B:197:GLU:OE1	2.27	0.61
2:C:140:ILE:HA	2:C:146:GLU:O	1.99	0.61
2:C:652:GLU:HA	2:C:692:ALA:CB	2.30	0.61
2:C:777:SER:HB3	2:C:780:VAL:HG22	1.81	0.61
2:C:1074:TRP:CH2	3:D:875:ARG:HA	2.35	0.61
3:D:49:GLU:OE1	3:D:54:PRO:HA	2.00	0.61
3:D:162:VAL:HG11	3:D:216:LEU:HG	1.82	0.61
3:D:384:ASN:H	3:D:401:SER:HB3	1.65	0.61
3:D:826:ASN:HB3	3:D:830:GLU:N	2.14	0.61
3:D:834:ARG:HB3	3:D:835:PRO:HA	1.82	0.61
3:D:1191:ARG:O	3:D:1194:VAL:HG22	2.00	0.61
5:F:446:VAL:CG1	5:F:449:ASP:CG	2.65	0.61
1:A:11:GLU:HG2	1:A:21:PHE:CE1	2.35	0.61
1:B:30:PHE:HA	1:B:33:THR:CG2	2.29	0.61
2:C:140:ILE:HG23	2:C:146:GLU:N	2.15	0.61
2:C:369:ASP:O	2:C:375:ASN:ND2	2.27	0.61
2:C:855:ARG:NH1	2:C:862:PRO:O	2.32	0.61
3:D:212:ALA:O	3:D:215:GLU:HG2	2.00	0.61
3:D:328:VAL:O	3:D:335:PHE:HB3	2.01	0.61
8:P:11:DA:H4'	8:P:12:DA:OP1	2.00	0.61
1:B:1:MET:HB2	1:B:232:ILE:HG12	1.82	0.61
1:B:39:ARG:HG3	1:B:174:VAL:CG1	2.31	0.61
2:C:541:VAL:HA	2:C:578:TYR:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:652:GLU:HA	2:C:692:ALA:HB1	1.82	0.61
3:D:600:GLN:HE22	3:D:602:ALA:HB2	1.66	0.61
5:F:296:LEU:CD2	5:F:332:VAL:HG11	2.30	0.61
5:F:415:GLN:O	5:F:418:ARG:CB	2.48	0.61
2:C:168:ILE:O	2:C:171:THR:OG1	2.04	0.61
2:C:853:PHE:O	2:C:868:LEU:N	2.28	0.61
2:C:952:VAL:HG12	2:C:953:PRO:O	2.00	0.61
3:D:874:THR:O	3:D:878:VAL:HG23	2.00	0.61
3:D:893:THR:O	3:D:940:ARG:NH1	2.34	0.61
1:A:40:ARG:NH2	1:B:32:TYR:HB2	2.14	0.61
1:B:3:ILE:HG23	1:B:5:GLN:H	1.65	0.61
2:C:221:THR:HA	2:C:261:THR:CG2	2.30	0.61
2:C:272:GLU:HA	2:C:275:LEU:HD21	1.81	0.61
2:C:1037:VAL:HG11	3:D:520:LYS:HB2	1.83	0.61
3:D:344:TYR:O	3:D:348:ILE:HG12	2.00	0.61
3:D:354:LEU:HD13	3:D:370:GLU:HB3	1.82	0.61
3:D:596:THR:HB	3:D:628:SER:H	1.63	0.61
3:D:866:ARG:HD2	3:D:1010:LEU:O	1.99	0.61
3:D:1266:ARG:HA	4:E:109:GLY:O	2.00	0.61
1:A:214:THR:O	1:A:217:GLU:HB2	2.00	0.61
1:B:1:MET:N	1:B:231:GLY:O	2.34	0.61
2:C:89:VAL:HA	2:C:92:GLU:OE2	2.01	0.61
2:C:557:PRO:HA	2:C:573:SER:OG	2.01	0.61
2:C:1071:MET:CE	3:D:502:PRO:HA	2.29	0.61
3:D:239:ASN:HD21	3:D:242:ARG:HH21	1.49	0.61
5:F:241:LEU:HD11	5:F:294:HIS:CE1	2.35	0.61
5:F:382:ILE:HA	5:F:385:GLU:OE1	2.01	0.61
1:A:14:LEU:HB2	1:A:19:SER:HA	1.83	0.61
1:B:218:LEU:HD12	1:B:221:LEU:HD12	1.82	0.61
2:C:212:LEU:HA	2:C:226:ILE:HA	1.82	0.61
2:C:675:PHE:N	2:C:685:ASN:OD1	2.34	0.61
2:C:759:ALA:HB3	2:C:867:GLU:N	2.15	0.61
2:C:1007:LYS:HB3	2:C:1022:PRO:HB2	1.81	0.61
1:B:168:TYR:O	1:B:170:PRO:HD3	2.01	0.61
2:C:344:TYR:OH	2:C:366:GLU:N	2.28	0.61
3:D:222:ILE:CB	3:D:240:LEU:HD11	2.30	0.61
3:D:412:ARG:HA	3:D:1227:GLN:NE2	2.15	0.61
3:D:1062:TYR:HB2	3:D:1080:ILE:CB	2.30	0.61
2:C:224:VAL:O	2:C:232:GLN:HB2	2.00	0.61
2:C:310:ARG:HE	2:C:328:ILE:HB	1.64	0.61
3:D:136:ILE:HG13	3:D:229:LEU:HD11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:443:LEU:HD12	3:D:444:PRO:CD	2.26	0.61
4:E:42:GLU:HA	4:E:45:ASP:OD2	2.01	0.61
4:E:60:ARG:NH2	4:E:80:GLY:HA3	2.16	0.61
1:B:84:VAL:HG22	1:B:119:HIS:CD2	2.35	0.61
1:B:84:VAL:CG1	1:B:119:HIS:HB2	2.30	0.61
1:B:113:PRO:O	1:B:116:VAL:HG22	2.00	0.61
2:C:233:PRO:HG2	2:C:236:VAL:CG2	2.31	0.61
2:C:429:GLU:O	2:C:433:THR:OG1	2.18	0.61
2:C:774:PRO:HD2	2:C:834:ASP:OD1	2.00	0.61
2:C:855:ARG:N	2:C:866:ASN:O	2.27	0.61
3:D:30:LYS:CD	3:D:44:ASP:HB2	2.31	0.61
3:D:127:LYS:HA	3:D:132:ALA:HB3	1.82	0.61
3:D:350:ARG:NH1	3:D:373:MET:O	2.34	0.61
3:D:448:ALA:HA	3:D:451:LEU:HB2	1.83	0.61
3:D:847:LEU:O	3:D:851:ILE:HG12	2.00	0.61
3:D:1088:VAL:HG23	3:D:1098:VAL:N	2.16	0.61
4:E:70:GLN:NE2	4:E:76:LEU:HB2	2.14	0.61
5:F:415:GLN:CB	5:F:418:ARG:CD	2.70	0.61
5:F:499:THR:O	5:F:503:ILE:HG12	2.01	0.61
2:C:320:LEU:HB2	2:C:322:LEU:HG	1.83	0.60
2:C:352:GLN:HB3	2:C:365:VAL:HG21	1.83	0.60
2:C:854:SER:N	2:C:859:ASP:OD2	2.26	0.60
2:C:884:LYS:HE2	2:C:892:LYS:HD2	1.82	0.60
2:C:944:TRP:O	2:C:966:ALA:N	2.31	0.60
2:C:1038:ASP:HA	2:C:1041:ILE:HG22	1.83	0.60
2:C:1074:TRP:HH2	3:D:875:ARG:HA	1.65	0.60
3:D:374:LEU:O	3:D:377:SER:OG	2.11	0.60
3:D:567:SER:HB2	3:D:571:GLY:N	2.16	0.60
3:D:1032:GLN:O	3:D:1036:GLU:N	2.32	0.60
5:F:408:GLU:HA	5:F:411:LEU:HD12	1.83	0.60
6:J:106:ARG:HA	6:J:110:ARG:CG	2.31	0.60
1:A:105:VAL:HG12	1:A:125:ILE:HB	1.82	0.60
2:C:252:PHE:HB3	2:C:255:SER:CB	2.31	0.60
2:C:435:GLN:NE2	2:C:459:GLY:HA2	2.16	0.60
3:D:400:LYS:HA	3:D:404:ASP:OD2	2.00	0.60
3:D:606:HIS:ND1	3:D:607:PRO:O	2.33	0.60
3:D:1168:ILE:HG13	3:D:1202:ALA:CB	2.31	0.60
8:P:21:DT:H1'	8:P:22:DC:H5'	1.82	0.60
1:B:54:ILE:O	1:B:162:ILE:HG13	2.01	0.60
2:C:105:LEU:HA	2:C:139:PHE:HA	1.83	0.60
2:C:185:VAL:HA	2:C:204:VAL:HG22	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1057:LEU:HD23	2:C:1062:GLN:HG2	1.82	0.60
3:D:124:ASP:HB3	3:D:234:LEU:CD2	2.31	0.60
3:D:257:GLY:O	3:D:260:SER:OG	2.13	0.60
3:D:749:TYR:HA	3:D:752:ARG:HD3	1.84	0.60
1:A:181:THR:HG1	1:A:189:PHE:H	1.47	0.60
2:C:223:GLY:HA2	2:C:231:ARG:HH22	1.67	0.60
2:C:1138:LEU:HA	3:D:-1:GLY:H3	1.67	0.60
3:D:511:ALA:N	3:D:559:MET:O	2.30	0.60
3:D:879:ASP:HB3	3:D:1226:PHE:HE1	1.66	0.60
3:D:1045:PRO:HD2	3:D:1112:MET:HG2	1.84	0.60
1:B:95:MET:HB2	1:B:138:LEU:HB2	1.83	0.60
1:B:183:VAL:HA	1:B:188:ASP:CA	2.30	0.60
2:C:650:ILE:HG13	2:C:694:ASP:HB2	1.83	0.60
2:C:688:PRO:HA	2:C:703:ALA:HB2	1.83	0.60
2:C:862:PRO:HG2	2:C:865:VAL:HG21	1.84	0.60
2:C:1083:TYR:O	2:C:1087:GLU:HG2	2.01	0.60
3:D:879:ASP:HB3	3:D:1226:PHE:CE1	2.36	0.60
5:F:453:PHE:O	5:F:456:LEU:HB3	2.02	0.60
1:B:49:ALA:HB2	1:B:142:ARG:HB3	1.82	0.60
1:B:97:LEU:HD21	1:B:105:VAL:CG1	2.28	0.60
1:B:170:PRO:HA	1:B:199:LYS:CE	2.32	0.60
2:C:407:GLN:HG3	2:C:417:LEU:CD2	2.32	0.60
2:C:855:ARG:HB2	2:C:866:ASN:HA	1.84	0.60
2:C:1050:SER:N	2:C:1055:GLN:O	2.35	0.60
3:D:279:ASP:O	3:D:282:ARG:HB3	2.02	0.60
3:D:453:LYS:HB3	3:D:454:PRO:HD3	1.81	0.60
3:D:496:VAL:O	3:D:511:ALA:HA	2.01	0.60
3:D:607:PRO:O	3:D:609:THR:HG23	2.01	0.60
3:D:671:VAL:O	3:D:675:GLU:HG3	2.01	0.60
3:D:1063:LYS:HZ2	3:D:1078:ASP:HB3	1.66	0.60
5:F:234:GLN:HA	5:F:237:LYS:CE	2.31	0.60
1:B:87:SER:HG	1:B:116:VAL:HA	1.66	0.60
2:C:163:LYS:HE2	2:C:640:ASP:OD1	2.01	0.60
2:C:644:ALA:HB3	2:C:700:GLN:H	1.65	0.60
2:C:760:ARG:HB2	2:C:767:GLU:OE2	2.02	0.60
3:D:1158:VAL:HA	3:D:1161:MET:CG	2.32	0.60
5:F:364:ARG:HD2	5:F:368:ILE:HD12	1.82	0.60
5:F:506:ILE:O	5:F:510:THR:HG23	2.02	0.60
1:A:3:ILE:HD11	1:A:27:GLU:OE2	2.02	0.60
1:A:95:MET:HA	1:A:113:PRO:HD3	1.84	0.60
1:B:223:ARG:HG2	1:B:227:VAL:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:413:THR:HG23	2:C:415:GLN:HB3	1.84	0.60
2:C:524:VAL:HG12	2:C:525:SER:O	2.01	0.60
2:C:647:SER:HA	2:C:697:GLU:HA	1.83	0.60
2:C:721:VAL:HG23	2:C:915:ILE:O	2.02	0.60
3:D:237:ASP:O	3:D:238:GLU:HG3	2.01	0.60
3:D:360:LEU:HD21	5:F:329:ILE:HG21	1.84	0.60
3:D:1151:ASP:O	3:D:1155:GLU:HG3	2.01	0.60
3:D:1187:GLU:O	3:D:1191:ARG:HG2	2.01	0.60
1:B:85:VAL:HG23	1:B:117:THR:C	2.22	0.60
2:C:470:LEU:HD22	2:C:473:ARG:HD2	1.83	0.60
2:C:1139:SER:OG	3:D:6:PHE:HB3	2.02	0.60
3:D:121:ALA:HB3	3:D:124:ASP:OD2	2.02	0.60
5:F:334:LYS:NZ	7:O:25:DC:H3'	2.17	0.60
2:C:71:ARG:HH11	2:C:82:PRO:HB2	1.66	0.60
2:C:252:PHE:HB3	2:C:255:SER:HB2	1.84	0.60
2:C:442:GLN:HG3	2:C:678:SER:OG	2.02	0.60
2:C:488:THR:O	2:C:610:ASN:ND2	2.28	0.60
2:C:559:VAL:O	2:C:571:VAL:HG12	2.02	0.60
2:C:944:TRP:NE1	2:C:963:LEU:O	2.30	0.60
3:D:76:GLU:N	3:D:76:GLU:OE1	2.31	0.60
3:D:334:ARG:NH1	5:F:419:GLU:N	2.36	0.60
3:D:383:ASP:HA	3:D:401:SER:HG	1.67	0.60
3:D:1128:ARG:HA	3:D:1131:GLN:OE1	2.02	0.60
3:D:1190:ASN:O	3:D:1194:VAL:HG13	2.01	0.60
5:F:439:ILE:C	6:J:6:LEU:O	2.40	0.60
1:B:96:TYR:HB2	1:B:111:VAL:CG1	2.32	0.59
2:C:152:VAL:HG21	2:C:418:ILE:CD1	2.32	0.59
2:C:601:ASP:OD2	2:C:603:ASN:ND2	2.35	0.59
3:D:263:LYS:HA	3:D:266:GLU:OE1	2.01	0.59
3:D:826:ASN:HA	3:D:832:ILE:HD11	1.82	0.59
3:D:1050:THR:HG23	3:D:1107:VAL:CG2	2.28	0.59
5:F:318:LEU:HD23	5:F:321:ILE:CD1	2.31	0.59
6:J:76:LYS:HG2	6:J:77:PRO:O	2.02	0.59
2:C:689:ILE:HG12	2:C:702:ILE:O	2.02	0.59
3:D:594:GLY:N	3:D:598:GLU:OE2	2.34	0.59
3:D:771:ASN:O	3:D:775:VAL:HG23	2.01	0.59
5:F:414:GLN:O	5:F:418:ARG:CG	2.35	0.59
5:F:439:ILE:HG13	6:J:6:LEU:HD11	1.81	0.59
1:A:56:ILE:O	1:A:59:VAL:HG22	2.02	0.59
1:B:96:TYR:CD1	1:B:137:GLU:HG2	2.36	0.59
2:C:50:VAL:HG11	2:C:633:ARG:HG2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:641:VAL:HG22	2:C:705:GLY:N	2.16	0.59
2:C:721:VAL:HG22	2:C:722:ALA:O	2.02	0.59
3:D:970:THR:CG2	3:D:975:CYS:HB3	2.33	0.59
5:F:415:GLN:CA	5:F:418:ARG:CG	2.53	0.59
1:A:53:SER:CB	1:A:163:PRO:HA	2.32	0.59
1:A:55:ARG:HB3	1:A:137:GLU:OE2	2.02	0.59
1:B:106:THR:CG2	1:B:124:HIS:HA	2.33	0.59
2:C:54:LEU:O	2:C:58:THR:HG23	2.02	0.59
2:C:205:ILE:HG22	2:C:211:TRP:CD1	2.37	0.59
2:C:584:ARG:O	2:C:587:VAL:HG12	2.03	0.59
2:C:677:ARG:HB2	2:C:752:ILE:HG21	1.84	0.59
2:C:1073:CYS:O	2:C:1075:ALA:CA	2.49	0.59
3:D:460:LEU:HD11	3:D:472:ALA:CB	2.31	0.59
3:D:878:VAL:HG22	3:D:1000:ALA:CB	2.26	0.59
3:D:924:THR:OG1	3:D:963:ARG:HB2	2.02	0.59
5:F:262:LEU:HA	5:F:265:GLU:CG	2.32	0.59
7:O:14:DG:H2''	7:O:15:DT:H72	1.83	0.59
1:B:12:ASP:O	1:B:20:GLN:N	2.22	0.59
2:C:675:PHE:HA	2:C:683:CYS:SG	2.42	0.59
2:C:768:GLU:O	2:C:805:LYS:HG2	2.02	0.59
2:C:1007:LYS:CB	2:C:1022:PRO:HB2	2.32	0.59
3:D:177:LEU:CD1	3:D:198:ARG:HA	2.31	0.59
3:D:592:VAL:O	3:D:595:ASP:HB2	2.01	0.59
1:A:23:ILE:HG22	1:A:26:LEU:HD21	1.83	0.59
1:A:53:SER:HB3	1:A:163:PRO:HA	1.84	0.59
1:A:216:VAL:HG13	1:B:216:VAL:HG23	1.85	0.59
1:A:223:ARG:HG3	1:B:213:LYS:N	2.18	0.59
2:C:278:TYR:CE2	2:C:287:PRO:HA	2.37	0.59
2:C:641:VAL:HG13	2:C:703:ALA:O	2.02	0.59
2:C:751:HIS:O	2:C:874:ALA:HA	2.03	0.59
2:C:822:ARG:HH12	2:C:829:ALA:HA	1.66	0.59
3:D:136:ILE:CD1	3:D:229:LEU:HD11	2.33	0.59
3:D:738:VAL:HB	3:D:739:PRO:HD2	1.83	0.59
2:C:128:THR:OG1	2:C:168:ILE:HA	2.03	0.59
2:C:275:LEU:HB3	2:C:289:LYS:NZ	2.18	0.59
2:C:652:GLU:N	2:C:659:THR:OG1	2.36	0.59
2:C:747:LEU:HB2	2:C:879:ILE:HB	1.85	0.59
2:C:994:PRO:HB3	2:C:999:ASP:N	2.13	0.59
3:D:11:ARG:HA	3:D:1242:SER:HA	1.84	0.59
3:D:212:ALA:HA	3:D:215:GLU:HG2	1.83	0.59
3:D:612:TYR:HD1	3:D:617:GLU:HG2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:686:LYS:HB2	3:D:688:MET:HE1	1.84	0.59
4:E:84:GLU:O	4:E:97:ARG:NH2	2.36	0.59
8:P:3:DC:H1'	8:P:4:DA:C5'	2.33	0.59
1:A:14:LEU:CG	1:A:20:GLN:HG3	2.33	0.59
1:B:175:THR:CG2	1:B:195:ASP:HB3	2.33	0.59
2:C:945:LYS:HA	2:C:965:GLU:CA	2.30	0.59
3:D:101:VAL:HG13	3:D:375:GLN:OE1	2.03	0.59
3:D:365:ILE:H	3:D:365:ILE:HD12	1.65	0.59
3:D:589:THR:HG21	3:D:688:MET:HG2	1.85	0.59
3:D:638:THR:HG22	3:D:661:ALA:HA	1.83	0.59
3:D:742:LYS:O	3:D:746:LEU:HG	2.02	0.59
4:E:67:TYR:O	4:E:71:LEU:HG	2.02	0.59
4:E:95:ALA:O	4:E:99:ILE:HG13	2.03	0.59
5:F:373:VAL:HG12	5:F:377:ASN:HD21	1.67	0.59
2:C:1072:GLU:HA	2:C:1075:ALA:CB	2.32	0.59
3:D:412:ARG:H	3:D:1227:GLN:HG3	1.68	0.59
3:D:460:LEU:HD11	3:D:472:ALA:HB2	1.84	0.59
3:D:481:PRO:HA	3:D:484:TRP:CD1	2.36	0.59
3:D:642:PRO:HB3	3:D:662:TRP:CZ3	2.38	0.59
5:F:243:ALA:O	5:F:247:VAL:HG23	2.03	0.59
5:F:463:VAL:HA	5:F:466:THR:HG23	1.85	0.59
3:D:459:ARG:O	3:D:462:ASP:HB2	2.01	0.59
3:D:1055:LEU:HD21	3:D:1086:LEU:HD21	1.84	0.59
6:J:64:LEU:HD23	6:J:65:ILE:HG22	1.85	0.59
1:A:214:THR:CG2	1:B:232:ILE:HB	2.33	0.58
1:B:87:SER:HB3	1:B:89:GLU:OE1	2.03	0.58
2:C:92:GLU:HG3	2:C:93:LEU:CD2	2.33	0.58
2:C:105:LEU:HD13	2:C:139:PHE:HB2	1.84	0.58
2:C:381:VAL:O	2:C:385:ILE:HG12	2.03	0.58
2:C:548:ILE:HG12	2:C:554:PHE:CE1	2.37	0.58
2:C:737:LEU:HD23	2:C:915:ILE:HG22	1.85	0.58
3:D:25:TYR:HA	6:J:57:ARG:HG3	1.84	0.58
3:D:215:GLU:O	3:D:219:LEU:HD23	2.03	0.58
3:D:362:ALA:HB1	3:D:363:PRO:HD2	1.85	0.58
3:D:553:ALA:HB1	4:E:54:VAL:HG13	1.84	0.58
3:D:641:ARG:HG3	3:D:647:GLU:OE2	2.03	0.58
3:D:737:LEU:O	3:D:793:TYR:OH	2.13	0.58
3:D:898:VAL:HG12	3:D:961:LYS:N	2.17	0.58
3:D:926:GLY:CA	3:D:940:ARG:HG3	2.31	0.58
3:D:1070:ASP:N	3:D:1071:GLY:HA2	2.18	0.58
3:D:1181:ILE:HB	3:D:1185:GLU:OE1	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:292:LYS:O	5:F:296:LEU:HG	2.03	0.58
5:F:408:GLU:OE1	5:F:408:GLU:N	2.31	0.58
5:F:411:LEU:O	5:F:415:GLN:HG3	2.03	0.58
1:A:97:LEU:HB3	1:A:136:VAL:CG1	2.33	0.58
2:C:102:SER:HB2	2:C:143:ASN:HD21	1.68	0.58
2:C:147:ILE:O	2:C:148:LYS:HD2	2.02	0.58
2:C:212:LEU:CB	2:C:226:ILE:HG13	2.33	0.58
2:C:945:LYS:HG3	2:C:965:GLU:HB3	1.84	0.58
3:D:56:ARG:HG2	6:J:13:ALA:N	2.16	0.58
3:D:119:ASP:HB2	3:D:295:ARG:HH21	1.66	0.58
3:D:120:LEU:HD11	3:D:232:LYS:HD3	1.86	0.58
3:D:162:VAL:HB	3:D:216:LEU:HD21	1.85	0.58
3:D:241:TYR:O	3:D:245:VAL:HG23	2.02	0.58
3:D:1036:GLU:CB	3:D:1038:ARG:HG2	2.33	0.58
5:F:333:GLU:HA	6:J:81:HIS:CE1	2.38	0.58
5:F:476:ARG:HA	5:F:481:LEU:HD12	1.86	0.58
6:J:97:LEU:HA	6:J:100:GLU:OE1	2.03	0.58
1:A:14:LEU:CB	1:A:19:SER:HA	2.34	0.58
1:A:99:LYS:HB3	1:A:134:LEU:HB3	1.85	0.58
1:B:48:GLY:N	1:B:143:GLY:O	2.36	0.58
1:B:104:GLU:HG2	1:B:127:THR:HA	1.84	0.58
2:C:39:VAL:HG11	2:C:963:LEU:HD21	1.83	0.58
2:C:115:VAL:HG11	2:C:129:TYR:CZ	2.39	0.58
2:C:413:THR:CG2	2:C:415:GLN:HB3	2.33	0.58
2:C:456:SER:CB	2:C:497:ILE:HG12	2.33	0.58
2:C:1076:MET:HE1	2:C:1084:THR:HB	1.85	0.58
3:D:612:TYR:OH	3:D:627:LEU:HD11	2.03	0.58
3:D:615:PRO:O	3:D:619:ILE:HG13	2.03	0.58
3:D:1150:HIS:ND1	3:D:1152:LYS:HG2	2.18	0.58
4:E:60:ARG:HD2	4:E:63:GLN:OE1	2.04	0.58
5:F:325:ASN:O	5:F:329:ILE:HG13	2.02	0.58
5:F:462:SER:O	5:F:466:THR:HG23	2.03	0.58
1:A:108:GLY:CA	1:A:121:PRO:HB3	2.33	0.58
1:B:72:ASP:OD2	1:B:74:THR:HG22	2.03	0.58
2:C:768:GLU:N	2:C:806:VAL:O	2.36	0.58
2:C:1003:ASP:OD2	2:C:1005:ASP:HB2	2.03	0.58
3:D:345:ARG:NE	5:F:365:THR:HA	2.18	0.58
3:D:1158:VAL:HA	3:D:1161:MET:SD	2.44	0.58
6:J:55:LEU:HG	6:J:60:MET:O	2.03	0.58
2:C:274:LEU:CG	2:C:292:ALA:HB1	2.34	0.58
3:D:73:ILE:O	3:D:81:GLU:HG3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:125:LEU:HA	3:D:128:ILE:HD12	1.84	0.58
3:D:127:LYS:CA	3:D:132:ALA:HB3	2.34	0.58
3:D:192:ASP:OD2	3:D:196:LYS:HE3	2.04	0.58
3:D:457:MET:HA	3:D:460:LEU:HD21	1.85	0.58
3:D:689:HIS:O	3:D:693:GLN:HG3	2.03	0.58
3:D:737:LEU:HB2	3:D:793:TYR:HE1	1.68	0.58
3:D:1053:VAL:HG22	3:D:1055:LEU:N	2.19	0.58
5:F:464:LEU:HD23	5:F:476:ARG:HE	1.69	0.58
2:C:216:VAL:HG11	2:C:349:HIS:CD2	2.39	0.58
3:D:550:GLU:HG3	4:E:58:ALA:HB1	1.84	0.58
3:D:1087:ARG:NH1	3:D:1110:GLN:OE1	2.37	0.58
3:D:1247:GLY:O	3:D:1259:PRO:HG3	2.04	0.58
5:F:455:LEU:HD13	5:F:458:ASP:OD2	2.04	0.58
1:A:97:LEU:HB3	1:A:136:VAL:HG12	1.85	0.58
1:B:96:TYR:HB2	1:B:111:VAL:HG11	1.86	0.58
2:C:310:ARG:O	2:C:328:ILE:HG21	2.04	0.58
2:C:603:ASN:O	2:C:607:MET:HG3	2.04	0.58
2:C:660:VAL:CG2	2:C:668:ARG:HB3	2.34	0.58
2:C:789:ILE:HG22	2:C:803:VAL:CG2	2.33	0.58
2:C:881:ASP:HA	2:C:895:ILE:CG2	2.33	0.58
2:C:1067:ARG:CG	3:D:421:ARG:HA	2.33	0.58
3:D:173:ARG:HD3	3:D:204:GLU:HB2	1.85	0.58
3:D:599:TYR:HA	3:D:610:GLY:HA3	1.84	0.58
3:D:767:HIS:O	3:D:770:ARG:HG3	2.03	0.58
3:D:827:PRO:HG3	3:D:854:HIS:CB	2.29	0.58
3:D:1066:ILE:HD12	3:D:1075:VAL:CB	2.34	0.58
1:A:214:THR:HG23	1:B:232:ILE:HB	1.86	0.58
2:C:105:LEU:HD12	2:C:138:GLU:O	2.03	0.58
2:C:158:PRO:HG2	2:C:431:PHE:CE2	2.38	0.58
3:D:667:THR:O	3:D:671:VAL:HG23	2.04	0.58
3:D:963:ARG:HD3	3:D:978:CYS:SG	2.43	0.58
1:A:14:LEU:CD1	1:A:20:GLN:HG3	2.34	0.58
1:B:27:GLU:HB2	1:B:30:PHE:CE2	2.39	0.58
3:D:739:PRO:CG	3:D:742:LYS:HB2	2.34	0.58
3:D:742:LYS:HE2	3:D:746:LEU:HD21	1.85	0.58
5:F:223:ALA:O	5:F:224:SER:C	2.42	0.58
5:F:336:ASP:OD2	5:F:339:LYS:HG3	2.03	0.58
2:C:72:GLU:O	2:C:76:GLU:HG2	2.04	0.58
2:C:104:SER:O	2:C:140:ILE:N	2.20	0.58
3:D:134:TYR:CD1	3:D:256:MET:HB2	2.39	0.58
3:D:468:ASN:OD1	3:D:471:SER:N	2.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:557:ILE:CD1	4:E:54:VAL:HG22	2.34	0.58
3:D:672:MET:HA	3:D:675:GLU:OE1	2.04	0.58
3:D:905:ALA:HB2	3:D:911:ILE:HG23	1.86	0.58
3:D:990:ASP:OD2	4:E:49:SER:HB2	2.04	0.58
1:B:64:THR:O	1:B:65:THR:OG1	2.21	0.57
2:C:62:GLU:O	2:C:65:ILE:HB	2.04	0.57
2:C:240:ALA:HA	2:C:274:LEU:HD21	1.86	0.57
2:C:408:ASP:OD1	2:C:412:ILE:HG23	2.03	0.57
2:C:583:PRO:O	2:C:584:ARG:HD2	2.04	0.57
2:C:780:VAL:HG23	2:C:781:LEU:CD1	2.34	0.57
3:D:177:LEU:HD12	3:D:180:ASP:HB2	1.86	0.57
3:D:457:MET:HA	3:D:460:LEU:CD2	2.34	0.57
3:D:910:LEU:HD21	3:D:956:GLY:HA2	1.86	0.57
3:D:989:VAL:CG2	3:D:993:GLU:HG3	2.34	0.57
5:F:306:LEU:CD1	5:F:351:ILE:HG21	2.34	0.57
6:J:85:LEU:HD11	6:J:89:ARG:HG3	1.85	0.57
1:B:49:ALA:HA	1:B:142:ARG:CA	2.31	0.57
1:B:54:ILE:O	1:B:162:ILE:N	2.31	0.57
1:B:98:ARG:HG2	1:B:135:GLU:CB	2.33	0.57
1:B:145:GLY:O	1:B:169:SER:N	2.36	0.57
2:C:291:SER:HA	2:C:294:THR:OG1	2.04	0.57
2:C:560:LEU:HA	2:C:569:GLU:O	2.04	0.57
2:C:715:LEU:O	2:C:1031:MET:HG2	2.04	0.57
3:D:614:SER:O	3:D:617:GLU:HB3	2.03	0.57
3:D:823:LEU:HD23	3:D:835:PRO:CB	2.34	0.57
3:D:912:ARG:HG2	3:D:913:ASP:O	2.04	0.57
1:A:97:LEU:HD13	1:A:110:ILE:HA	1.87	0.57
2:C:238:LEU:HG	2:C:248:ILE:HG12	1.86	0.57
2:C:314:TYR:HB2	2:C:328:ILE:HG12	1.87	0.57
2:C:533:ALA:O	2:C:536:GLU:HB3	2.04	0.57
2:C:563:ARG:HD3	2:C:564:LYS:H	1.69	0.57
2:C:733:ASP:O	2:C:735:ILE:HG13	2.04	0.57
3:D:851:ILE:HA	3:D:854:HIS:HD2	1.68	0.57
3:D:1248:LEU:O	3:D:1252:VAL:HG23	2.04	0.57
5:F:331:ALA:HB2	5:F:350:TRP:CB	2.35	0.57
5:F:386:LEU:HD13	5:F:398:GLU:OE2	2.05	0.57
1:B:39:ARG:HG3	1:B:174:VAL:HG11	1.86	0.57
2:C:83:VAL:HA	2:C:87:GLU:OE1	2.04	0.57
2:C:278:TYR:O	2:C:282:ARG:HG2	2.04	0.57
2:C:401:ARG:HA	2:C:404:MET:HB2	1.86	0.57
2:C:473:ARG:NH2	2:C:496:LEU:HD11	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:882:GLY:H	2:C:895:ILE:HB	1.68	0.57
3:D:276:SER:O	3:D:280:VAL:HG23	2.04	0.57
3:D:329:GLN:HG2	6:J:9:SER:O	2.05	0.57
3:D:882:GLN:O	3:D:1248:LEU:HD21	2.04	0.57
2:C:139:PHE:HB3	2:C:148:LYS:HB2	1.85	0.57
2:C:681:GLY:O	2:C:752:ILE:N	2.37	0.57
3:D:428:SER:HB3	3:D:522:ILE:CD1	2.34	0.57
3:D:684:VAL:HG13	3:D:686:LYS:HZ3	1.69	0.57
3:D:820:MET:CE	3:D:837:LYS:HA	2.34	0.57
3:D:1088:VAL:CA	3:D:1098:VAL:HA	2.28	0.57
3:D:1219:SER:OG	3:D:1243:ASP:OD2	2.11	0.57
4:E:50:LYS:O	4:E:54:VAL:HG23	2.05	0.57
2:C:820:LEU:HD11	2:C:824:ILE:HD11	1.86	0.57
2:C:988:LEU:O	2:C:991:CYS:N	2.32	0.57
2:C:1071:MET:SD	3:D:503:THR:N	2.76	0.57
2:C:1084:THR:O	2:C:1088:LEU:HG	2.05	0.57
2:C:1123:VAL:O	2:C:1127:GLU:HG3	2.05	0.57
3:D:74:ILE:HG12	3:D:81:GLU:CA	2.35	0.57
3:D:206:ARG:HB2	3:D:209:ARG:CZ	2.35	0.57
3:D:639:GLN:NE2	3:D:658:PRO:O	2.34	0.57
3:D:656:TRP:HE3	3:D:658:PRO:HD2	1.70	0.57
3:D:866:ARG:NH1	3:D:1011:THR:HA	2.19	0.57
3:D:946:ASP:HB2	3:D:947:PRO:HD3	1.87	0.57
3:D:1275:THR:HG22	4:E:103:LEU:O	2.04	0.57
5:F:241:LEU:HB3	5:F:245:GLU:CG	2.35	0.57
5:F:242:ASN:O	5:F:245:GLU:HB2	2.04	0.57
5:F:367:ARG:NH2	7:O:22:DG:OP1	2.37	0.57
1:B:18:ARG:HG3	1:B:197:GLU:HB2	1.85	0.57
2:C:244:THR:OG1	2:C:247:GLN:HG3	2.05	0.57
2:C:616:VAL:HG22	2:C:1032:LYS:O	2.04	0.57
2:C:982:GLU:O	2:C:986:GLN:HG3	2.04	0.57
2:C:1068:PHE:H	3:D:422:VAL:HG23	1.70	0.57
3:D:119:ASP:HB2	3:D:295:ARG:NH2	2.20	0.57
3:D:173:ARG:HG2	3:D:205:MET:HB2	1.85	0.57
3:D:329:GLN:HE21	6:J:9:SER:HG	1.52	0.57
3:D:589:THR:HG21	3:D:688:MET:CG	2.34	0.57
3:D:895:ARG:HB2	3:D:967:THR:HB	1.85	0.57
1:B:63:PHE:HB2	3:D:603:SER:OG	2.04	0.57
1:B:175:THR:HG22	1:B:195:ASP:HB3	1.87	0.57
2:C:134:PHE:HA	2:C:152:VAL:O	2.04	0.57
2:C:229:LYS:HZ2	2:C:281:LEU:HA	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:443:ASN:OD1	2:C:447:SER:HB3	2.04	0.57
2:C:581:VAL:HG22	2:C:585:GLN:OE1	2.05	0.57
2:C:632:LEU:O	2:C:636:ILE:HG23	2.04	0.57
2:C:888:ARG:NH2	2:C:933:GLU:OE2	2.26	0.57
3:D:158:GLU:O	3:D:162:VAL:HG23	2.04	0.57
3:D:1162:LEU:CD2	3:D:1207:LEU:HD23	2.34	0.57
1:A:177:LYS:N	1:A:193:ILE:O	2.33	0.57
2:C:312:GLY:O	2:C:316:VAL:HG23	2.05	0.57
2:C:716:GLY:N	2:C:1029:TYR:OH	2.38	0.57
2:C:943:GLY:O	2:C:993:LEU:HG	2.05	0.57
2:C:1042:HIS:NE2	2:C:1063:PHE:O	2.37	0.57
3:D:30:LYS:HD2	3:D:44:ASP:HB2	1.87	0.57
3:D:173:ARG:HG2	3:D:205:MET:CA	2.35	0.57
3:D:262:GLN:HG3	3:D:310:MET:HE3	1.87	0.57
3:D:341:ASN:O	3:D:345:ARG:HG3	2.05	0.57
3:D:444:PRO:HG2	3:D:447:MET:HB3	1.87	0.57
3:D:466:ALA:HB1	3:D:471:SER:OG	2.05	0.57
5:F:276:ALA:O	5:F:279:ARG:HG2	2.04	0.57
6:J:28:GLN:O	6:J:44:PHE:N	2.38	0.57
6:J:106:ARG:HA	6:J:110:ARG:CD	2.35	0.57
1:A:53:SER:HB2	1:A:162:ILE:O	2.05	0.57
1:A:80:LEU:HD22	1:A:83:LEU:HD11	1.86	0.57
1:B:3:ILE:HG12	1:B:234:ILE:HG23	1.84	0.57
1:B:95:MET:HE1	1:B:140:VAL:HB	1.87	0.57
2:C:103:MET:HB2	2:C:139:PHE:HZ	1.68	0.57
2:C:529:VAL:HG12	2:C:531:LEU:HG	1.87	0.57
2:C:650:ILE:N	2:C:694:ASP:O	2.22	0.57
2:C:1103:TYR:O	2:C:1107:VAL:HG23	2.04	0.57
3:D:47:PHE:CE2	3:D:327:MET:HE3	2.40	0.57
3:D:52:PHE:CD2	3:D:322:PRO:HG3	2.40	0.57
3:D:75:CYS:O	3:D:79:GLY:N	2.26	0.57
3:D:319:VAL:HG13	3:D:344:TYR:CZ	2.40	0.57
3:D:915:TYR:CE1	3:D:1143:ARG:HG2	2.40	0.57
3:D:927:THR:HG21	3:D:961:LYS:HB3	1.86	0.57
3:D:1272:VAL:HG22	4:E:106:HIS:CB	2.35	0.57
7:O:19:DA:H4'	7:O:20:DT:OP1	2.05	0.57
1:A:147:VAL:HG22	1:A:148:PRO:O	2.05	0.56
2:C:185:VAL:HG12	2:C:204:VAL:HG22	1.87	0.56
2:C:674:LYS:HZ2	2:C:685:ASN:HB3	1.70	0.56
2:C:884:LYS:CE	2:C:892:LYS:HD2	2.35	0.56
3:D:50:LYS:CA	3:D:80:VAL:HG22	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:70:GLN:HG3	4:E:73:GLU:OE2	2.05	0.56
6:J:108:ARG:CD	6:J:109:ARG:H	2.17	0.56
2:C:225:ARG:HG3	2:C:230:ARG:N	2.19	0.56
2:C:540:VAL:HG22	2:C:576:VAL:HG22	1.87	0.56
2:C:582:SER:HB2	2:C:583:PRO:HD2	1.86	0.56
2:C:674:LYS:NZ	2:C:685:ASN:HB3	2.19	0.56
2:C:759:ALA:CB	2:C:867:GLU:HB3	2.34	0.56
2:C:1097:VAL:O	2:C:1101:LYS:HG2	2.05	0.56
3:D:706:MET:N	4:E:41:ASP:OD2	2.37	0.56
4:E:38:PRO:HG2	4:E:43:LEU:HD21	1.87	0.56
1:A:5:GLN:NE2	1:A:25:PRO:HG3	2.20	0.56
1:A:8:THR:O	1:A:23:ILE:HG23	2.06	0.56
1:A:24:GLU:HA	1:A:26:LEU:HG	1.88	0.56
1:A:27:GLU:O	1:A:30:PHE:HB3	2.04	0.56
1:A:105:VAL:CG1	1:A:125:ILE:HB	2.35	0.56
1:B:51:VAL:CA	1:B:140:VAL:HG22	2.35	0.56
1:B:53:SER:CB	1:B:163:PRO:HA	2.35	0.56
2:C:129:TYR:CE2	2:C:159:MET:HB2	2.41	0.56
2:C:206:PRO:HG2	2:C:209:GLY:HA3	1.88	0.56
2:C:220:ASP:OD2	2:C:257:ILE:HA	2.05	0.56
2:C:239:LYS:NZ	2:C:268:VAL:HA	2.21	0.56
2:C:482:ARG:HG2	2:C:512:ILE:HG21	1.86	0.56
2:C:612:GLN:HG3	2:C:1031:MET:SD	2.45	0.56
2:C:648:GLY:O	2:C:696:VAL:N	2.37	0.56
2:C:883:ASP:OD1	2:C:1037:VAL:HG23	2.05	0.56
2:C:982:GLU:OE2	3:D:841:ARG:NH2	2.38	0.56
2:C:1124:LEU:O	2:C:1128:LEU:HG	2.05	0.56
3:D:27:GLU:HB2	3:D:94:HIS:NE2	2.20	0.56
3:D:34:ILE:HG13	3:D:40:LYS:C	2.26	0.56
3:D:206:ARG:HA	3:D:209:ARG:CG	2.34	0.56
3:D:229:LEU:HA	3:D:233:GLN:OE1	2.05	0.56
3:D:289:LYS:O	3:D:293:LEU:HG	2.05	0.56
3:D:328:VAL:CG1	3:D:336:ALA:HB3	2.35	0.56
3:D:340:LEU:HA	3:D:343:LEU:HD12	1.85	0.56
3:D:601:PRO:HA	3:D:608:GLU:CB	2.35	0.56
3:D:1065:THR:HG23	3:D:1076:VAL:HA	1.87	0.56
3:D:1274:PRO:HG2	4:E:79:VAL:CG1	2.36	0.56
5:F:442:SER:CB	6:J:7:ARG:HD3	2.31	0.56
5:F:446:VAL:CG1	5:F:449:ASP:OD2	2.46	0.56
7:O:19:DA:C8	7:O:20:DT:H72	2.40	0.56
1:A:152:ASN:ND2	1:A:161:ARG:HB2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:506:VAL:HG12	2:C:507:ASN:O	2.06	0.56
2:C:882:GLY:N	2:C:895:ILE:HB	2.21	0.56
2:C:922:VAL:HB	2:C:923:PRO:HD3	1.86	0.56
3:D:203:ARG:O	3:D:206:ARG:HG2	2.05	0.56
1:A:61:HIS:CD2	1:A:63:PHE:HB2	2.41	0.56
1:A:172:LEU:HD12	1:A:197:GLU:OE2	2.04	0.56
2:C:50:VAL:HA	2:C:503:TYR:HE1	1.71	0.56
2:C:771:ARG:HD2	2:C:786:GLU:HA	1.87	0.56
2:C:989:LEU:HD21	2:C:1006:GLY:N	2.20	0.56
3:D:69:ARG:HB2	6:J:20:ARG:HH22	1.71	0.56
3:D:185:GLU:HA	3:D:194:ARG:NH1	2.16	0.56
3:D:741:ARG:HB2	3:D:744:GLU:OE2	2.04	0.56
3:D:911:ILE:HD12	3:D:911:ILE:O	2.06	0.56
5:F:356:THR:HA	5:F:359:MET:SD	2.46	0.56
8:P:17:DT:H1'	8:P:18:DT:H5'	1.88	0.56
1:A:32:TYR:CE1	2:C:1018:PRO:HD3	2.41	0.56
2:C:523:VAL:HA	2:C:552:GLY:C	2.26	0.56
2:C:658:ILE:O	2:C:669:THR:HA	2.04	0.56
2:C:1133:LEU:O	2:C:1135:VAL:HG23	2.06	0.56
3:D:199:ASP:O	3:D:203:ARG:HG3	2.04	0.56
5:F:315:MET:SD	5:F:359:MET:HA	2.46	0.56
1:A:113:PRO:O	1:A:116:VAL:HG22	2.04	0.56
2:C:799:GLY:N	2:C:839:VAL:HG13	2.20	0.56
2:C:1079:TYR:CD2	3:D:559:MET:HG2	2.40	0.56
3:D:74:ILE:HG12	3:D:81:GLU:HA	1.88	0.56
3:D:435:GLN:OE1	3:D:435:GLN:N	2.32	0.56
3:D:1030:ARG:O	3:D:1034:LEU:HG	2.06	0.56
3:D:1142:TYR:O	3:D:1147:VAL:N	2.37	0.56
3:D:1158:VAL:HA	3:D:1161:MET:HG3	1.88	0.56
1:A:25:PRO:O	1:A:26:LEU:HD23	2.04	0.56
1:A:26:LEU:H	1:A:189:PHE:HB2	1.70	0.56
1:B:39:ARG:O	1:B:43:LEU:HD13	2.06	0.56
2:C:41:PHE:HB3	2:C:43:LYS:NZ	2.21	0.56
2:C:540:VAL:CG1	2:C:576:VAL:HA	2.36	0.56
3:D:78:CYS:SG	3:D:79:GLY:N	2.79	0.56
3:D:235:ILE:HD13	3:D:241:TYR:HD1	1.71	0.56
3:D:624:ARG:HB3	3:D:626:VAL:HG23	1.88	0.56
3:D:905:ALA:HB3	3:D:909:THR:N	2.21	0.56
3:D:923:ARG:NH2	3:D:1155:GLU:OE2	2.37	0.56
3:D:1181:ILE:HD11	3:D:1186:PHE:CB	2.32	0.56
5:F:241:LEU:HB3	5:F:245:GLU:CB	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:339:LYS:HB3	5:F:341:TYR:CE2	2.41	0.56
5:F:502:ARG:NH2	7:O:1:DG:H3'	2.21	0.56
7:O:11:DA:C2'	7:O:12:DG:H5''	2.30	0.56
1:A:95:MET:HG2	1:A:138:LEU:HB2	1.86	0.56
1:B:104:GLU:CG	1:B:127:THR:HG22	2.34	0.56
1:B:210:SER:O	1:B:214:THR:HG23	2.06	0.56
2:C:230:ARG:NH2	5:F:212:LEU:HA	2.21	0.56
2:C:762:THR:N	2:C:765:GLY:O	2.38	0.56
3:D:58:TRP:HA	3:D:82:VAL:HG23	1.86	0.56
3:D:84:ARG:HD3	3:D:86:LYS:CE	2.33	0.56
3:D:642:PRO:HD2	3:D:657:GLN:NE2	2.21	0.56
3:D:893:THR:HG21	3:D:967:THR:O	2.06	0.56
5:F:476:ARG:CA	5:F:481:LEU:HB2	2.36	0.56
1:B:169:SER:HB3	1:B:171:VAL:CG2	2.35	0.56
2:C:138:GLU:HA	2:C:148:LYS:O	2.06	0.56
2:C:344:TYR:CE1	2:C:365:VAL:HA	2.40	0.56
2:C:731:TYR:N	2:C:734:ALA:HB3	2.21	0.56
2:C:759:ALA:HB3	2:C:867:GLU:H	1.71	0.56
3:D:350:ARG:HA	3:D:353:ARG:NH1	2.21	0.56
3:D:760:PHE:CD1	3:D:770:ARG:HG2	2.41	0.56
3:D:775:VAL:CG1	3:D:779:LYS:HE3	2.36	0.56
5:F:334:LYS:NZ	7:O:25:DC:OP1	2.38	0.56
1:B:162:ILE:HD12	1:B:162:ILE:O	2.06	0.55
1:B:183:VAL:HA	1:B:188:ASP:H	1.70	0.55
2:C:48:LEU:HG	2:C:49:GLU:O	2.05	0.55
2:C:71:ARG:NH1	2:C:82:PRO:O	2.39	0.55
2:C:131:ALA:N	2:C:157:PHE:O	2.39	0.55
2:C:653:VAL:HA	2:C:658:ILE:HG12	1.88	0.55
2:C:677:ARG:HG3	2:C:752:ILE:HB	1.88	0.55
2:C:720:LEU:HA	2:C:1026:GLY:O	2.06	0.55
2:C:802:LEU:HD11	2:C:839:VAL:HA	1.87	0.55
2:C:1054:GLN:O	2:C:1055:GLN:HG3	2.04	0.55
3:D:153:ALA:O	3:D:157:VAL:HG23	2.05	0.55
3:D:1061:PHE:HB2	3:D:1080:ILE:O	2.06	0.55
3:D:1108:GLY:HA3	3:D:1125:GLN:NE2	2.21	0.55
3:D:1276:GLU:HA	3:D:1279:ARG:CB	2.36	0.55
5:F:253:ILE:HG12	5:F:288:GLY:O	2.05	0.55
5:F:335:PHE:O	6:J:88:ARG:NH1	2.39	0.55
5:F:471:GLU:O	5:F:475:VAL:HG23	2.06	0.55
6:J:106:ARG:HA	6:J:110:ARG:HD3	1.87	0.55
1:A:97:LEU:O	1:A:136:VAL:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:105:VAL:HB	1:A:126:ALA:N	2.20	0.55
1:A:172:LEU:CB	1:A:199:LYS:HB3	2.34	0.55
1:A:181:THR:HG21	1:A:189:PHE:CZ	2.41	0.55
2:C:306:TYR:HE2	2:C:333:LEU:HG	1.70	0.55
2:C:424:VAL:HA	2:C:427:ILE:HD12	1.89	0.55
2:C:601:ASP:OD1	2:C:602:ALA:N	2.40	0.55
2:C:689:ILE:HG13	2:C:690:VAL:HG13	1.88	0.55
2:C:756:GLU:OE1	2:C:870:ARG:HD3	2.07	0.55
2:C:767:GLU:HG2	2:C:807:THR:CG2	2.36	0.55
3:D:137:THR:HG23	3:D:253:THR:OG1	2.06	0.55
3:D:820:MET:HE2	3:D:836:VAL:O	2.06	0.55
3:D:929:ALA:O	3:D:937:ILE:N	2.38	0.55
3:D:1260:ALA:O	3:D:1263:GLY:N	2.40	0.55
5:F:258:TYR:CD1	6:J:94:LEU:HD13	2.41	0.55
5:F:456:LEU:HA	5:F:526:TYR:CE2	2.41	0.55
1:B:103:GLY:N	1:B:128:LEU:HB2	2.22	0.55
2:C:33:PRO:HG2	2:C:700:GLN:HG3	1.88	0.55
2:C:255:SER:HB3	2:C:258:MET:CG	2.37	0.55
2:C:518:LYS:HB3	2:C:578:TYR:CE1	2.40	0.55
2:C:756:GLU:CB	2:C:870:ARG:HG2	2.36	0.55
2:C:995:ASN:OD1	2:C:996:ARG:N	2.37	0.55
2:C:1003:ASP:OD1	2:C:1006:GLY:N	2.38	0.55
2:C:1067:ARG:O	2:C:1067:ARG:HG2	2.06	0.55
3:D:27:GLU:HB2	3:D:94:HIS:CE1	2.42	0.55
3:D:370:GLU:HB2	5:F:322:GLN:NE2	2.21	0.55
3:D:400:LYS:HG3	3:D:404:ASP:CB	2.37	0.55
3:D:902:ALA:CB	3:D:912:ARG:HA	2.35	0.55
3:D:1052:ARG:HA	3:D:1104:HIS:CA	2.35	0.55
3:D:1054:ARG:HB3	3:D:1065:THR:O	2.06	0.55
1:A:18:ARG:HB3	1:A:197:GLU:HA	1.87	0.55
1:A:179:ASP:CB	1:A:191:LYS:HB3	2.29	0.55
1:A:185:GLN:HB2	1:A:187:THR:HG22	1.88	0.55
1:A:195:ASP:OD1	1:A:196:VAL:N	2.39	0.55
1:A:211:ALA:O	1:A:215:LEU:HD23	2.06	0.55
1:A:216:VAL:HG13	1:B:216:VAL:CG2	2.35	0.55
1:B:101:GLY:O	1:B:128:LEU:HD23	2.07	0.55
2:C:134:PHE:CD1	2:C:153:PHE:HA	2.41	0.55
2:C:168:ILE:HG22	2:C:169:ASN:OD1	2.07	0.55
2:C:272:GLU:O	2:C:275:LEU:HG	2.05	0.55
2:C:651:GLU:OE1	2:C:667:ARG:HD2	2.07	0.55
2:C:1049:TYR:HA	2:C:1056:PRO:CA	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:18:GLU:HA	3:D:21:ARG:HG2	1.87	0.55
5:F:459:GLN:O	5:F:462:SER:OG	2.18	0.55
8:P:5:DC:H2"	8:P:6:DA:OP2	2.07	0.55
1:B:183:VAL:HA	1:B:188:ASP:N	2.22	0.55
2:C:189:GLU:HB3	2:C:200:HIS:CG	2.41	0.55
2:C:208:ARG:NH2	2:C:305:ARG:HA	2.22	0.55
2:C:298:ASN:HD22	2:C:302:LYS:HE2	1.72	0.55
2:C:413:THR:OG1	2:C:414:PRO:HD2	2.06	0.55
2:C:507:ASN:HA	2:C:513:GLU:CD	2.26	0.55
2:C:622:GLU:O	2:C:714:ALA:HB1	2.07	0.55
3:D:158:GLU:OE2	3:D:219:LEU:HG	2.06	0.55
3:D:295:ARG:O	3:D:299:VAL:HG23	2.07	0.55
3:D:381:LEU:O	3:D:401:SER:HB2	2.07	0.55
3:D:589:THR:HG21	3:D:688:MET:HB2	1.89	0.55
3:D:873:LEU:O	3:D:877:LEU:HG	2.07	0.55
3:D:965:VAL:HG11	3:D:1156:VAL:CG2	2.32	0.55
4:E:56:TYR:OH	4:E:104:LEU:HB2	2.07	0.55
5:F:463:VAL:HA	5:F:466:THR:CG2	2.36	0.55
1:B:85:VAL:HG23	1:B:118:VAL:N	2.21	0.55
2:C:191:ILE:HG13	2:C:197:LYS:C	2.27	0.55
2:C:255:SER:HB3	2:C:258:MET:HB2	1.89	0.55
2:C:760:ARG:HA	2:C:864:GLY:O	2.07	0.55
2:C:790:VAL:HG13	2:C:802:LEU:O	2.06	0.55
3:D:134:TYR:HB2	3:D:235:ILE:HB	1.89	0.55
3:D:599:TYR:CD2	3:D:601:PRO:HD3	2.42	0.55
3:D:729:VAL:HB	3:D:798:PRO:HB3	1.89	0.55
3:D:1181:ILE:HD12	3:D:1185:GLU:CG	2.37	0.55
1:B:146:TYR:HD1	1:B:167:ILE:HA	1.71	0.55
2:C:59:ASP:HA	2:C:62:GLU:HG2	1.87	0.55
2:C:210:ALA:HB3	2:C:300:PHE:HE1	1.72	0.55
2:C:380:THR:O	2:C:384:LEU:HG	2.07	0.55
2:C:563:ARG:HB3	2:C:567:GLU:HB2	1.88	0.55
2:C:785:ASP:N	2:C:789:ILE:O	2.24	0.55
2:C:792:ILE:HD11	2:C:850:ILE:HD12	1.89	0.55
2:C:905:PRO:HA	2:C:1011:PHE:O	2.07	0.55
2:C:955:TRP:CE2	2:C:987:GLY:HA3	2.42	0.55
2:C:1055:GLN:NE2	3:D:420:LYS:HD3	2.22	0.55
2:C:1067:ARG:HH12	3:D:418:LEU:HD21	1.70	0.55
2:C:1094:ASP:CB	2:C:1119:GLU:H	2.20	0.55
3:D:1033:GLU:HA	3:D:1036:GLU:CB	2.34	0.55
5:F:289:ASP:O	5:F:292:LYS:HB3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:34:LEU:O	1:A:37:SER:HB3	2.06	0.55
1:A:82:SER:O	1:A:123:MET:HE1	2.06	0.55
1:B:52:THR:HB	1:B:139:VAL:CG1	2.35	0.55
2:C:301:PHE:HE1	2:C:334:THR:HA	1.70	0.55
2:C:384:LEU:HA	2:C:387:ASN:ND2	2.21	0.55
2:C:505:ARG:NH2	2:C:513:GLU:OE1	2.34	0.55
2:C:543:GLN:HA	2:C:580:ASP:OD2	2.07	0.55
2:C:853:PHE:CD2	2:C:868:LEU:HD12	2.41	0.55
2:C:1040:LYS:C	2:C:1060:LYS:HE3	2.26	0.55
2:C:1096:THR:HA	2:C:1099:ARG:CZ	2.35	0.55
3:D:1167:ILE:HG23	3:D:1169:ASP:O	2.07	0.55
5:F:247:VAL:HG13	5:F:251:LYS:HE3	1.89	0.55
5:F:322:GLN:HA	5:F:325:ASN:ND2	2.21	0.55
5:F:342:LYS:HG2	7:O:29:DA:H3'	1.88	0.55
2:C:278:TYR:CD2	2:C:287:PRO:HA	2.41	0.55
2:C:376:ARG:NH2	2:C:457:ALA:HB2	2.22	0.55
2:C:722:ALA:O	2:C:723:ILE:HD13	2.07	0.55
2:C:736:ILE:HD11	2:C:916:ILE:HB	1.88	0.55
3:D:64:LYS:HG2	3:D:65:TYR:CE2	2.41	0.55
3:D:127:LYS:O	3:D:132:ALA:N	2.37	0.55
3:D:329:GLN:OE1	6:J:11:LEU:HD21	2.07	0.55
3:D:674:ASN:HD21	3:D:684:VAL:H	1.55	0.55
3:D:747:ASP:O	3:D:751:GLU:HG3	2.06	0.55
5:F:315:MET:CE	5:F:362:GLN:HB2	2.37	0.55
5:F:445:VAL:HG12	5:F:447:ALA:N	2.22	0.55
1:B:98:ARG:HA	1:B:134:LEU:O	2.07	0.55
2:C:191:ILE:HA	2:C:198:THR:HA	1.89	0.55
2:C:236:VAL:HG13	2:C:273:ALA:HB1	1.89	0.55
2:C:1119:GLU:O	2:C:1123:VAL:HG23	2.07	0.55
3:D:131:PHE:CD1	3:D:256:MET:HG2	2.42	0.55
3:D:181:LEU:HD21	3:D:198:ARG:CD	2.37	0.55
3:D:468:ASN:ND2	3:D:470:LYS:HB3	2.21	0.55
3:D:636:ARG:HG2	3:D:662:TRP:C	2.28	0.55
3:D:896:GLY:N	3:D:967:THR:HG21	2.22	0.55
3:D:1066:ILE:HG13	3:D:1077:TYR:HE2	1.72	0.55
5:F:439:ILE:CG1	6:J:6:LEU:HD12	2.26	0.55
6:J:6:LEU:HD12	6:J:6:LEU:O	2.07	0.55
1:A:33:THR:CG2	1:B:37:SER:HA	2.38	0.54
1:A:141:GLU:HG2	1:A:142:ARG:O	2.06	0.54
2:C:435:GLN:HG3	2:C:436:LEU:HD12	1.87	0.54
2:C:651:GLU:CD	2:C:667:ARG:HD2	2.27	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:696:VAL:HB	2:C:700:GLN:OE1	2.06	0.54
3:D:826:ASN:ND2	3:D:828:LYS:HB2	2.22	0.54
3:D:845:THR:N	3:D:848:GLU:OE1	2.39	0.54
1:A:145:GLY:N	1:A:168:TYR:HB2	2.21	0.54
1:A:174:VAL:O	2:C:910:GLY:HA3	2.06	0.54
1:B:90:ASP:OD1	1:B:142:ARG:HD3	2.07	0.54
1:B:98:ARG:HG2	1:B:135:GLU:CA	2.34	0.54
1:B:211:ALA:O	1:B:214:THR:OG1	2.23	0.54
2:C:789:ILE:HG22	2:C:803:VAL:HG13	1.89	0.54
3:D:86:LYS:O	3:D:89:ARG:HB3	2.08	0.54
3:D:262:GLN:O	3:D:266:GLU:HG3	2.08	0.54
3:D:524:LEU:HD21	3:D:528:VAL:HG23	1.89	0.54
3:D:530:GLU:HB2	3:D:578:ARG:HH11	1.73	0.54
3:D:736:VAL:HG22	3:D:799:ILE:HD13	1.90	0.54
8:P:14:DA:H1'	8:P:15:DC:H5'	1.88	0.54
1:A:147:VAL:CG1	1:A:166:SER:HB2	2.37	0.54
1:B:63:PHE:HB2	3:D:603:SER:CB	2.36	0.54
2:C:277:ILE:HD13	2:C:280:LYS:NZ	2.23	0.54
2:C:306:TYR:OH	2:C:333:LEU:HD11	2.08	0.54
3:D:64:LYS:HE3	3:D:75:CYS:SG	2.47	0.54
3:D:206:ARG:HA	3:D:209:ARG:HG3	1.88	0.54
3:D:262:GLN:HG3	3:D:310:MET:CE	2.37	0.54
3:D:356:ARG:HA	3:D:359:ASP:OD2	2.06	0.54
3:D:423:ASP:OD1	3:D:424:TYR:N	2.39	0.54
3:D:438:LEU:HA	3:D:525:HIS:CD2	2.42	0.54
3:D:895:ARG:NH1	3:D:967:THR:HA	2.23	0.54
3:D:922:ALA:CB	3:D:981:ARG:HB3	2.37	0.54
3:D:1025:THR:HG22	3:D:1030:ARG:HB2	1.89	0.54
1:A:74:THR:HA	1:A:77:ILE:CG1	2.38	0.54
2:C:222:VAL:HB	2:C:234:VAL:HG13	1.88	0.54
2:C:222:VAL:CG2	2:C:233:PRO:HA	2.36	0.54
2:C:647:SER:CB	2:C:697:GLU:HA	2.37	0.54
2:C:841:HIS:O	2:C:843:GLU:HG3	2.07	0.54
2:C:1007:LYS:HD2	2:C:1022:PRO:O	2.07	0.54
3:D:329:GLN:HB2	3:D:335:PHE:CD1	2.42	0.54
3:D:457:MET:O	3:D:460:LEU:HG	2.08	0.54
3:D:585:LEU:O	3:D:589:THR:HG23	2.08	0.54
3:D:612:TYR:CZ	3:D:627:LEU:HD11	2.43	0.54
3:D:921:TYR:HA	3:D:944:LEU:O	2.07	0.54
5:F:317:PHE:O	5:F:321:ILE:HG13	2.08	0.54
7:O:24:DG:H1'	7:O:25:DC:H5'	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:73:VAL:O	1:B:77:ILE:HG13	2.08	0.54
2:C:113:ASP:HB2	2:C:132:PRO:HD2	1.88	0.54
2:C:187:PHE:N	2:C:368:ASP:OD2	2.41	0.54
3:D:55:THR:O	6:J:12:GLY:HA3	2.07	0.54
3:D:212:ALA:HA	3:D:215:GLU:CD	2.27	0.54
3:D:334:ARG:NH1	5:F:419:GLU:O	2.41	0.54
3:D:367:VAL:CG1	3:D:371:LYS:HE3	2.37	0.54
3:D:914:PRO:HG2	3:D:915:TYR:CD2	2.43	0.54
3:D:1028:LEU:HB3	3:D:1029:PRO:HD3	1.88	0.54
5:F:241:LEU:HD11	5:F:294:HIS:HE1	1.70	0.54
8:P:22:DC:H2''	8:P:23:DA:C8	2.43	0.54
1:A:54:ILE:CG2	1:A:138:LEU:HA	2.34	0.54
1:A:113:PRO:HD2	1:A:116:VAL:HG21	1.89	0.54
1:A:177:LYS:O	1:A:193:ILE:N	2.41	0.54
1:B:71:GLU:OE2	1:B:127:THR:HG23	2.08	0.54
2:C:77:ARG:HG2	2:C:77:ARG:O	2.08	0.54
2:C:89:VAL:HA	2:C:92:GLU:HG2	1.90	0.54
2:C:106:SER:O	2:C:138:GLU:N	2.27	0.54
2:C:516:TYR:CE2	2:C:531:LEU:HB2	2.42	0.54
2:C:540:VAL:HG11	2:C:575:GLU:O	2.08	0.54
3:D:329:GLN:HB2	3:D:335:PHE:CE1	2.42	0.54
3:D:662:TRP:CZ3	3:D:664:ALA:HB2	2.43	0.54
3:D:684:VAL:HG13	3:D:686:LYS:NZ	2.21	0.54
3:D:721:PHE:O	3:D:725:THR:HG23	2.08	0.54
3:D:910:LEU:CD2	3:D:956:GLY:HA2	2.38	0.54
3:D:1169:ASP:O	3:D:1201:ALA:HB1	2.07	0.54
1:A:107:ALA:HB3	1:A:121:PRO:CA	2.37	0.54
2:C:182:SER:CB	2:C:377:ARG:HD2	2.37	0.54
2:C:232:GLN:NE2	2:C:233:PRO:HD2	2.23	0.54
2:C:373:PHE:CE2	2:C:479:HIS:HA	2.43	0.54
2:C:622:GLU:HB3	2:C:717:LYS:HD3	1.90	0.54
2:C:907:LEU:CD1	2:C:911:THR:HB	2.29	0.54
2:C:1035:HIS:HA	2:C:1040:LYS:HZ1	1.73	0.54
2:C:1054:GLN:C	2:C:1055:GLN:HG3	2.27	0.54
3:D:472:ALA:O	3:D:476:VAL:HG23	2.07	0.54
3:D:736:VAL:CG1	3:D:841:ARG:HD2	2.37	0.54
3:D:880:VAL:HG21	3:D:1210:ILE:HB	1.90	0.54
3:D:1056:GLU:HB3	3:D:1063:LYS:O	2.08	0.54
3:D:1234:THR:O	3:D:1238:ILE:HG13	2.07	0.54
3:D:1251:ASN:HA	3:D:1254:ILE:CG1	2.37	0.54
4:E:56:TYR:CE2	4:E:99:ILE:HG12	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:478:ARG:NH1	8:P:20:DG:OP1	2.23	0.54
1:B:107:ALA:CB	1:B:123:MET:HB3	2.37	0.54
2:C:97:GLU:HG3	2:C:103:MET:O	2.08	0.54
2:C:516:TYR:CD2	2:C:531:LEU:HB2	2.43	0.54
2:C:820:LEU:HD13	5:F:479:PHE:CE2	2.40	0.54
2:C:1023:VAL:HG13	3:D:730:THR:HG21	1.90	0.54
3:D:937:ILE:HD11	3:D:951:ALA:CB	2.35	0.54
3:D:1009:GLN:O	3:D:1011:THR:HG23	2.08	0.54
3:D:1050:THR:H	3:D:1107:VAL:HG22	1.73	0.54
5:F:502:ARG:O	5:F:506:ILE:HG13	2.08	0.54
2:C:200:HIS:CD2	2:C:348:LEU:HG	2.43	0.54
2:C:320:LEU:HA	2:C:363:VAL:HG11	1.89	0.54
2:C:522:GLY:O	2:C:553:ARG:HA	2.07	0.54
2:C:1070:GLU:OE1	3:D:417:LEU:HB2	2.08	0.54
2:C:1111:ASN:ND2	4:E:65:ASN:HB3	2.22	0.54
3:D:49:GLU:CD	3:D:54:PRO:HA	2.28	0.54
3:D:797:ASN:O	3:D:801:THR:OG1	2.23	0.54
3:D:1084:GLN:C	3:D:1085:ARG:HD2	2.28	0.54
8:P:20:DG:H1'	8:P:21:DT:C5'	2.37	0.54
1:A:87:SER:HB3	1:A:142:ARG:CD	2.38	0.54
1:A:221:LEU:HD12	1:A:225:LEU:CD2	2.37	0.54
1:B:182:ARG:CD	1:B:185:GLN:HB3	2.36	0.54
2:C:229:LYS:O	2:C:230:ARG:HB3	2.07	0.54
2:C:725:PRO:HA	2:C:730:ASN:ND2	2.23	0.54
3:D:811:PHE:O	3:D:814:THR:HB	2.08	0.54
5:F:317:PHE:CD2	5:F:321:ILE:HD11	2.43	0.54
7:O:3:DT:H1'	7:O:4:DT:C5'	2.38	0.54
7:O:5:DG:H1'	7:O:6:DA:H5'	1.90	0.54
1:A:55:ARG:NE	1:A:137:GLU:OE2	2.40	0.53
1:B:24:GLU:HB2	1:B:25:PRO:HA	1.90	0.53
1:B:63:PHE:HB2	3:D:603:SER:HB3	1.90	0.53
1:B:75:GLU:HA	1:B:78:LEU:CD2	2.37	0.53
2:C:104:SER:HB3	2:C:142:ASN:OD1	2.09	0.53
2:C:677:ARG:HD2	2:C:752:ILE:HG22	1.89	0.53
2:C:1054:GLN:NE2	3:D:89:ARG:HH22	2.06	0.53
3:D:590:THR:HG23	3:D:630:ARG:CD	2.37	0.53
3:D:612:TYR:HB2	3:D:635:VAL:CG1	2.33	0.53
3:D:1276:GLU:HA	3:D:1279:ARG:HB3	1.90	0.53
1:B:172:LEU:HB2	1:B:198:THR:HA	1.90	0.53
2:C:38:ARG:HA	2:C:971:ILE:HG13	1.89	0.53
2:C:352:GLN:HB2	2:C:365:VAL:HG11	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:558:ARG:NH2	2:C:570:TYR:HB2	2.23	0.53
2:C:571:VAL:HG21	2:C:575:GLU:HB2	1.90	0.53
2:C:683:CYS:HA	2:C:752:ILE:HD11	1.89	0.53
2:C:883:ASP:O	2:C:895:ILE:HG13	2.08	0.53
2:C:900:PRO:HD2	2:C:903:ASP:OD2	2.08	0.53
3:D:369:ASN:OD1	3:D:372:ARG:NH2	2.41	0.53
3:D:668:LEU:HA	3:D:671:VAL:CG2	2.39	0.53
3:D:979:TYR:O	3:D:1152:LYS:NZ	2.38	0.53
3:D:1055:LEU:HB3	3:D:1101:ASP:HA	1.91	0.53
3:D:1166:THR:HG22	3:D:1204:ARG:O	2.08	0.53
1:B:19:SER:HB2	1:B:204:PRO:HG2	1.90	0.53
2:C:113:ASP:HB2	2:C:132:PRO:HB2	1.90	0.53
2:C:118:PRO:HG2	2:C:121:GLU:HB3	1.89	0.53
2:C:610:ASN:OD1	2:C:613:ARG:NH2	2.42	0.53
2:C:624:PRO:HB3	2:C:1029:TYR:CG	2.44	0.53
2:C:818:GLU:OE2	2:C:822:ARG:NE	2.41	0.53
2:C:1127:GLU:O	2:C:1131:LEU:HG	2.09	0.53
3:D:30:LYS:HE3	3:D:44:ASP:OD2	2.07	0.53
3:D:339:ASP:HB2	5:F:424:ASP:OD2	2.08	0.53
3:D:587:TYR:O	3:D:630:ARG:HD3	2.09	0.53
3:D:1055:LEU:HB3	3:D:1101:ASP:CB	2.39	0.53
5:F:488:THR:HB	8:P:20:DG:P	2.48	0.53
6:J:27:ARG:HB2	6:J:44:PHE:O	2.08	0.53
1:A:173:LYS:O	1:A:197:GLU:HB3	2.08	0.53
1:B:21:PHE:O	1:B:194:LEU:N	2.41	0.53
1:B:170:PRO:O	1:B:199:LYS:HE3	2.08	0.53
2:C:396:MET:O	2:C:400:VAL:HG23	2.09	0.53
2:C:592:ALA:CB	2:C:630:MET:HG3	2.36	0.53
2:C:654:SER:OG	2:C:657:TYR:N	2.26	0.53
2:C:816:PRO:HB2	5:F:481:LEU:HD23	1.90	0.53
3:D:525:HIS:CG	3:D:526:PRO:HD2	2.44	0.53
3:D:642:PRO:HB3	3:D:662:TRP:CH2	2.43	0.53
3:D:673:PHE:CZ	3:D:688:MET:HG3	2.44	0.53
3:D:1046:ILE:HA	3:D:1110:GLN:HA	1.89	0.53
5:F:329:ILE:O	5:F:333:GLU:HG3	2.08	0.53
5:F:440:GLU:N	6:J:7:ARG:HA	2.23	0.53
8:P:3:DC:H1'	8:P:4:DA:H5'	1.91	0.53
1:B:78:LEU:CA	1:B:81:LYS:HE2	2.35	0.53
2:C:39:VAL:CG1	2:C:963:LEU:HD21	2.38	0.53
2:C:133:LEU:CD1	2:C:157:PHE:HB2	2.37	0.53
2:C:719:LEU:O	2:C:1028:MET:N	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:821:LEU:HD23	5:F:527:LEU:HD21	1.90	0.53
3:D:494:HIS:CD2	3:D:545:LEU:HD11	2.43	0.53
3:D:606:HIS:HB2	3:D:607:PRO:HD2	1.90	0.53
3:D:790:ARG:HB2	3:D:811:PHE:CZ	2.44	0.53
5:F:339:LYS:HD2	7:O:27:DA:C5	2.43	0.53
5:F:381:ARG:HG2	5:F:385:GLU:OE2	2.09	0.53
8:P:12:DA:H3'	8:P:12:DA:OP2	2.08	0.53
2:C:68:PRO:HA	2:C:71:ARG:CB	2.39	0.53
2:C:376:ARG:HH21	2:C:457:ALA:HB2	1.73	0.53
2:C:519:VAL:HA	2:C:524:VAL:HA	1.90	0.53
2:C:541:VAL:HG22	2:C:578:TYR:CB	2.33	0.53
2:C:543:GLN:CD	3:D:847:LEU:HD11	2.28	0.53
2:C:560:LEU:HD22	2:C:568:VAL:CG1	2.39	0.53
2:C:759:ALA:O	2:C:866:ASN:N	2.41	0.53
2:C:801:ILE:HD13	2:C:838:LYS:CG	2.35	0.53
3:D:35:ASN:O	3:D:39:LEU:HD23	2.09	0.53
3:D:206:ARG:O	3:D:209:ARG:HG3	2.09	0.53
3:D:1248:LEU:HD12	3:D:1249:LYS:N	2.23	0.53
5:F:386:LEU:HB2	5:F:394:PRO:HG2	1.91	0.53
1:A:220:GLY:HA2	1:A:223:ARG:CB	2.39	0.53
2:C:688:PRO:HA	2:C:703:ALA:CB	2.39	0.53
2:C:717:LYS:O	2:C:1029:TYR:HA	2.08	0.53
2:C:1072:GLU:HG2	3:D:509:ILE:HG13	1.89	0.53
2:C:1118:PRO:HG2	2:C:1121:PHE:CB	2.38	0.53
3:D:134:TYR:CB	3:D:235:ILE:HB	2.38	0.53
3:D:165:GLN:NE2	3:D:169:GLU:OE2	2.41	0.53
3:D:284:GLY:O	3:D:289:LYS:HD3	2.08	0.53
3:D:334:ARG:HH12	5:F:419:GLU:CA	2.20	0.53
3:D:672:MET:O	3:D:675:GLU:HB2	2.08	0.53
3:D:1081:SER:HB2	3:D:1084:GLN:HG2	1.90	0.53
3:D:1182:ASP:OD1	3:D:1183:ARG:N	2.41	0.53
3:D:1270:ILE:HG12	4:E:108:GLU:HA	1.90	0.53
5:F:405:ILE:HD12	5:F:409:LYS:CG	2.39	0.53
8:P:25:DG:H2''	8:P:26:DC:H6	1.74	0.53
1:A:43:LEU:HD23	2:C:902:GLU:CA	2.38	0.53
1:A:127:THR:C	1:A:128:LEU:HD12	2.29	0.53
1:A:221:LEU:CD2	1:B:7:PRO:HG2	2.39	0.53
1:B:30:PHE:HB3	1:B:34:LEU:HD23	1.90	0.53
1:B:180:ALA:O	1:B:183:VAL:HG13	2.09	0.53
2:C:563:ARG:HG3	2:C:565:ALA:H	1.74	0.53
2:C:689:ILE:HD11	2:C:701:VAL:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:772:ASP:O	2:C:773:ILE:HD13	2.09	0.53
2:C:1100:VAL:HG12	5:F:447:ALA:HB1	1.91	0.53
3:D:1043:LYS:HA	3:D:1115:SER:O	2.08	0.53
4:E:64:ILE:O	4:E:67:TYR:HB3	2.09	0.53
8:P:7:DA:C2'	8:P:8:DT:H71	2.38	0.53
1:B:50:ALA:O	1:B:140:VAL:HG13	2.08	0.53
2:C:161:THR:OG1	2:C:165:THR:N	2.23	0.53
2:C:403:ARG:HD3	2:C:407:GLN:NE2	2.23	0.53
2:C:674:LYS:HZ2	2:C:686:GLN:N	2.05	0.53
2:C:1007:LYS:HG2	2:C:1024:THR:N	2.24	0.53
2:C:1008:ALA:O	2:C:1022:PRO:HA	2.09	0.53
2:C:1068:PHE:CB	3:D:422:VAL:CG2	2.81	0.53
3:D:16:THR:O	3:D:20:ILE:HG13	2.08	0.53
3:D:58:TRP:O	3:D:66:LYS:HA	2.09	0.53
3:D:58:TRP:HD1	3:D:82:VAL:HG22	1.74	0.53
3:D:147:GLU:OE2	3:D:150:THR:OG1	2.23	0.53
3:D:876:ARG:O	3:D:880:VAL:HG23	2.09	0.53
3:D:1251:ASN:HB3	3:D:1256:LYS:O	2.09	0.53
3:D:1271:ALA:HB3	4:E:107:THR:OG1	2.08	0.53
5:F:276:ALA:HA	5:F:279:ARG:HG2	1.90	0.53
7:O:19:DA:H2'	7:O:20:DT:C7	2.39	0.53
1:A:83:LEU:HD23	1:A:123:MET:SD	2.49	0.53
2:C:65:ILE:HG23	2:C:112:PHE:CE2	2.43	0.53
2:C:208:ARG:HG2	2:C:307:ASP:O	2.09	0.53
2:C:334:THR:HG23	2:C:337:ASP:N	2.17	0.53
2:C:548:ILE:HG12	2:C:554:PHE:HE1	1.73	0.53
2:C:816:PRO:HA	2:C:819:ARG:CZ	2.39	0.53
2:C:1124:LEU:HD23	11:D:1404:C0L:C01	2.39	0.53
3:D:35:ASN:HD22	3:D:38:THR:HG22	1.73	0.53
3:D:107:PHE:HB2	3:D:114:LEU:HD12	1.91	0.53
3:D:887:ARG:HD2	3:D:972:THR:O	2.09	0.53
5:F:353:GLN:HG3	7:O:26:DT:O4	2.08	0.53
6:J:52:GLY:HA2	6:J:64:LEU:HD12	1.91	0.53
6:J:80:THR:OG1	6:J:82:TRP:HB3	2.09	0.53
8:P:8:DT:H2''	8:P:9:DT:O5'	2.09	0.53
1:A:110:ILE:O	1:A:112:PRO:HD3	2.08	0.52
1:A:220:GLY:HA2	1:A:223:ARG:HB3	1.90	0.52
2:C:295:LEU:HG	2:C:299:LEU:HD11	1.91	0.52
3:D:480:ARG:O	3:D:483:VAL:HG12	2.09	0.52
3:D:1086:LEU:HG	3:D:1099:LEU:HD23	1.91	0.52
1:B:15:THR:CG2	1:B:18:ARG:HB3	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:93:VAL:HG12	1:B:140:VAL:O	2.10	0.52
2:C:152:VAL:HG11	2:C:418:ILE:HD13	1.91	0.52
2:C:280:LYS:O	2:C:283:PRO:HD3	2.09	0.52
2:C:993:LEU:HD12	2:C:993:LEU:O	2.09	0.52
2:C:1050:SER:OG	2:C:1051:MET:N	2.40	0.52
3:D:49:GLU:O	3:D:53:GLY:N	2.39	0.52
3:D:104:ILE:HG23	3:D:105:TRP:CD1	2.44	0.52
3:D:282:ARG:HG3	3:D:283:ASN:OD1	2.09	0.52
3:D:548:SER:O	3:D:552:GLN:HG3	2.09	0.52
4:E:60:ARG:HH11	4:E:63:GLN:HB2	1.74	0.52
5:F:459:GLN:O	5:F:463:VAL:HG23	2.09	0.52
1:A:52:THR:HB	1:A:139:VAL:CG1	2.39	0.52
1:B:7:PRO:HA	1:B:25:PRO:CD	2.37	0.52
2:C:117:ALA:HB3	2:C:122:CYS:SG	2.49	0.52
2:C:153:PHE:CE2	2:C:155:GLY:HA2	2.44	0.52
2:C:334:THR:CG2	2:C:336:GLU:HB3	2.39	0.52
2:C:540:VAL:HG13	2:C:576:VAL:HA	1.91	0.52
3:D:53:GLY:O	3:D:88:ARG:NH1	2.35	0.52
3:D:548:SER:OG	3:D:551:ALA:N	2.23	0.52
3:D:1086:LEU:HD23	3:D:1099:LEU:HG	1.91	0.52
3:D:1274:PRO:HA	4:E:104:LEU:HA	1.91	0.52
3:D:1275:THR:HA	4:E:105:GLU:OE1	2.09	0.52
1:B:76:ILE:O	1:B:80:LEU:HG	2.09	0.52
1:B:147:VAL:CG1	1:B:166:SER:HB2	2.39	0.52
2:C:160:MET:SD	2:C:164:GLY:HA2	2.50	0.52
2:C:206:PRO:HG3	2:C:306:TYR:CE1	2.44	0.52
2:C:323:HIS:ND1	2:C:326:GLU:OE2	2.36	0.52
2:C:658:ILE:HD11	2:C:688:PRO:CB	2.36	0.52
2:C:881:ASP:HA	2:C:895:ILE:HG21	1.91	0.52
2:C:1054:GLN:C	2:C:1055:GLN:CG	2.78	0.52
2:C:1073:CYS:O	2:C:1076:MET:N	2.42	0.52
3:D:100:PRO:HG2	3:D:262:GLN:OE1	2.09	0.52
3:D:704:TYR:HB3	3:D:705:PRO:HD2	1.91	0.52
3:D:1086:LEU:HD23	3:D:1099:LEU:CG	2.40	0.52
4:E:30:ASP:OD1	4:E:31:THR:N	2.42	0.52
5:F:302:LEU:HB2	7:O:31:DT:C2	2.44	0.52
6:J:34:THR:HG21	6:J:38:GLU:HB2	1.91	0.52
6:J:54:TRP:O	6:J:62:GLY:N	2.39	0.52
1:A:49:ALA:HA	1:A:142:ARG:HA	1.92	0.52
1:B:119:HIS:O	1:B:200:ASN:ND2	2.40	0.52
2:C:134:PHE:HD1	2:C:153:PHE:HA	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:243:TRP:HE3	2:C:247:GLN:HB3	1.75	0.52
2:C:1106:ILE:HG21	3:D:454:PRO:HB2	1.92	0.52
3:D:70:PHE:HB3	3:D:73:ILE:HD11	1.92	0.52
3:D:91:ARG:O	3:D:321:PRO:HG3	2.10	0.52
3:D:126:GLU:HG3	3:D:130:TYR:CD2	2.45	0.52
3:D:592:VAL:HB	3:D:595:ASP:OD2	2.09	0.52
3:D:596:THR:HB	3:D:628:SER:N	2.23	0.52
3:D:674:ASN:ND2	3:D:684:VAL:H	2.07	0.52
6:J:81:HIS:HA	6:J:84:MET:HE2	1.92	0.52
6:J:107:SER:HA	6:J:111:GLY:O	2.08	0.52
7:O:24:DG:H1'	7:O:25:DC:C5'	2.39	0.52
1:A:32:TYR:HB3	2:C:1016:GLY:O	2.09	0.52
1:B:1:MET:HB2	1:B:232:ILE:HG23	1.92	0.52
1:B:52:THR:O	1:B:164:VAL:HG22	2.08	0.52
2:C:38:ARG:CD	2:C:973:SER:HB3	2.38	0.52
2:C:192:ASP:HB2	2:C:199:LEU:CD1	2.31	0.52
2:C:221:THR:HA	2:C:261:THR:HG22	1.91	0.52
2:C:239:LYS:HZ3	2:C:268:VAL:HA	1.75	0.52
2:C:272:GLU:HA	2:C:275:LEU:CD2	2.39	0.52
2:C:1081:ALA:HB1	3:D:554:GLU:HB3	1.92	0.52
3:D:192:ASP:O	3:D:196:LYS:HG3	2.10	0.52
3:D:342:ASP:O	3:D:346:ARG:HG3	2.10	0.52
3:D:812:THR:O	3:D:816:THR:HG23	2.10	0.52
3:D:1085:ARG:HD3	3:D:1113:GLU:OE2	2.08	0.52
3:D:1157:ILE:HG22	3:D:1161:MET:HE3	1.92	0.52
3:D:1270:ILE:HG23	4:E:107:THR:O	2.09	0.52
5:F:445:VAL:HG12	5:F:447:ALA:H	1.75	0.52
1:A:22:VAL:HG23	1:A:192:LEU:O	2.09	0.52
2:C:211:TRP:O	2:C:227:ASP:N	2.43	0.52
2:C:277:ILE:HD13	2:C:280:LYS:HZ1	1.73	0.52
2:C:313:ARG:CD	2:C:331:SER:HA	2.37	0.52
2:C:727:GLU:H	3:D:725:THR:HG22	1.74	0.52
2:C:840:PRO:HG2	2:C:843:GLU:OE2	2.08	0.52
3:D:138:SER:N	3:D:253:THR:OG1	2.43	0.52
4:E:59:LYS:O	4:E:63:GLN:HG3	2.09	0.52
7:O:16:DT:H2''	7:O:17:DA:O5'	2.09	0.52
8:P:11:DA:H1'	8:P:12:DA:H5'	1.90	0.52
1:A:18:ARG:HB2	1:A:196:VAL:O	2.09	0.52
1:A:226:ASN:ND2	1:B:205:ARG:HG3	2.23	0.52
2:C:195:THR:HG22	2:C:197:LYS:HG3	1.92	0.52
2:C:563:ARG:HB3	2:C:567:GLU:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:707:CYS:HB3	2:C:715:LEU:HD23	1.92	0.52
3:D:35:ASN:ND2	3:D:38:THR:H	2.07	0.52
3:D:181:LEU:HD21	3:D:198:ARG:HG2	1.91	0.52
3:D:354:LEU:HB2	3:D:370:GLU:CG	2.37	0.52
3:D:866:ARG:HH12	3:D:1011:THR:HG22	1.74	0.52
3:D:913:ASP:OD1	3:D:914:PRO:HD2	2.10	0.52
3:D:913:ASP:OD2	3:D:915:TYR:N	2.43	0.52
3:D:1047:ALA:HB3	3:D:1109:GLN:N	2.24	0.52
3:D:1278:ALA:HB1	4:E:103:LEU:HD23	1.92	0.52
5:F:447:ALA:O	5:F:450:ALA:N	2.42	0.52
6:J:102:LEU:HD21	6:J:106:ARG:NH2	2.25	0.52
1:A:177:LYS:O	1:A:192:LEU:HD12	2.10	0.52
1:B:85:VAL:HA	1:B:117:THR:O	2.10	0.52
2:C:248:ILE:O	2:C:252:PHE:N	2.40	0.52
2:C:303:GLU:HB3	2:C:332:THR:CB	2.40	0.52
2:C:320:LEU:CB	2:C:322:LEU:HG	2.39	0.52
2:C:322:LEU:CD2	2:C:357:VAL:HG11	2.40	0.52
2:C:380:THR:O	2:C:383:GLU:HB3	2.10	0.52
3:D:146:ASN:OD1	3:D:147:GLU:N	2.43	0.52
3:D:446:LEU:O	3:D:449:LEU:HB3	2.09	0.52
3:D:888:GLU:O	3:D:976:ALA:N	2.36	0.52
3:D:928:ASP:HA	3:D:939:GLU:HA	1.91	0.52
5:F:479:PHE:HD2	5:F:481:LEU:HD11	1.74	0.52
1:A:66:VAL:HB	1:A:69:VAL:CG2	2.39	0.52
1:A:66:VAL:HB	1:A:69:VAL:HG21	1.90	0.52
1:B:78:LEU:HA	1:B:81:LYS:HG3	1.92	0.52
2:C:111:ARG:HG3	2:C:134:PHE:HB2	1.92	0.52
2:C:222:VAL:HG23	2:C:233:PRO:HA	1.92	0.52
2:C:344:TYR:CZ	2:C:365:VAL:HA	2.44	0.52
2:C:868:LEU:HD22	2:C:869:VAL:H	1.75	0.52
2:C:883:ASP:OD1	2:C:1037:VAL:N	2.43	0.52
3:D:72:GLY:O	6:J:43:PRO:HB2	2.10	0.52
3:D:232:LYS:O	3:D:234:LEU:HD12	2.09	0.52
3:D:566:LEU:HD23	3:D:573:PRO:CA	2.40	0.52
3:D:901:LEU:HD12	3:D:957:ILE:O	2.10	0.52
3:D:970:THR:OG1	3:D:973:GLY:O	2.27	0.52
3:D:1055:LEU:HA	3:D:1064:ILE:CG2	2.30	0.52
5:F:400:ALA:HB2	5:F:407:PRO:HA	1.92	0.52
1:A:23:ILE:O	1:A:26:LEU:HD11	2.10	0.51
1:B:30:PHE:HA	1:B:33:THR:HG23	1.91	0.51
2:C:719:LEU:O	2:C:1027:TYR:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:747:LEU:CB	2:C:879:ILE:HB	2.40	0.51
2:C:759:ALA:HB2	2:C:867:GLU:HB3	1.92	0.51
3:D:135:VAL:HG23	3:D:234:LEU:HA	1.92	0.51
3:D:380:ALA:O	3:D:384:ASN:HB2	2.10	0.51
3:D:908:GLY:O	3:D:909:THR:HG23	2.10	0.51
3:D:1208:MET:SD	3:D:1213:ALA:HA	2.50	0.51
5:F:299:ASN:HA	7:O:31:DT:N3	2.24	0.51
7:O:28:DT:H5'	7:O:28:DT:H6	1.74	0.51
1:A:49:ALA:CB	1:A:142:ARG:HA	2.41	0.51
1:B:56:ILE:HG12	1:B:136:VAL:CG2	2.40	0.51
1:B:86:SER:O	1:B:117:THR:HG22	2.11	0.51
2:C:89:VAL:O	2:C:93:LEU:HD23	2.09	0.51
2:C:624:PRO:HB3	2:C:1029:TYR:CD1	2.45	0.51
2:C:819:ARG:NH2	5:F:479:PHE:O	2.43	0.51
2:C:1092:LYS:NZ	3:D:545:LEU:O	2.43	0.51
3:D:285:LYS:N	3:D:289:LYS:HB2	2.24	0.51
3:D:322:PRO:HB3	3:D:325:ARG:NH2	2.25	0.51
3:D:478:ARG:HB3	3:D:480:ARG:NE	2.25	0.51
3:D:567:SER:O	3:D:571:GLY:N	2.36	0.51
3:D:626:VAL:HG12	3:D:627:LEU:HG	1.92	0.51
4:E:92:LEU:O	4:E:96:LEU:HG	2.09	0.51
5:F:342:LYS:CB	7:O:29:DA:H3'	2.40	0.51
1:B:75:GLU:O	1:B:78:LEU:HG	2.11	0.51
2:C:347:ARG:CB	2:C:352:GLN:HG3	2.23	0.51
2:C:1072:GLU:HG2	3:D:509:ILE:CD1	2.41	0.51
3:D:246:ASP:OD1	3:D:247:ARG:N	2.43	0.51
3:D:416:ASN:OD1	3:D:417:LEU:N	2.39	0.51
3:D:736:VAL:HG12	3:D:841:ARG:HD2	1.92	0.51
3:D:1182:ASP:HB3	3:D:1185:GLU:CB	2.41	0.51
1:A:14:LEU:HD21	1:A:20:GLN:HG3	1.92	0.51
1:A:177:LYS:HE3	1:A:193:ILE:CD1	2.40	0.51
2:C:167:ILE:HA	2:C:171:THR:O	2.10	0.51
2:C:208:ARG:NH1	2:C:307:ASP:OD2	2.43	0.51
2:C:355:MET:O	2:C:362:GLU:HA	2.10	0.51
2:C:793:GLY:O	2:C:846:LYS:HD2	2.10	0.51
2:C:1007:LYS:CE	2:C:1022:PRO:HG2	2.40	0.51
2:C:1020:PRO:HG2	2:C:1021:TYR:CD2	2.46	0.51
3:D:444:PRO:HG2	3:D:447:MET:CB	2.40	0.51
3:D:459:ARG:HH11	3:D:462:ASP:HB2	1.76	0.51
3:D:683:PHE:CE2	3:D:685:ASN:HB2	2.44	0.51
3:D:712:THR:O	3:D:716:LEU:HG	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1065:THR:CG2	3:D:1074:GLU:HB3	2.39	0.51
3:D:1180:LEU:HD22	3:D:1206:VAL:HG21	1.92	0.51
3:D:1272:VAL:HG21	4:E:56:TYR:HA	1.92	0.51
4:E:83:VAL:HG12	4:E:98:GLU:HG3	1.93	0.51
5:F:278:ARG:O	5:F:282:MET:HG2	2.11	0.51
5:F:499:THR:HG23	7:O:3:DT:P	2.50	0.51
5:F:503:ILE:HD13	5:F:506:ILE:CD1	2.40	0.51
6:J:20:ARG:HH11	6:J:23:ASP:HB3	1.75	0.51
6:J:101:ARG:CD	6:J:104:LEU:HD13	2.35	0.51
7:O:20:DT:H2''	7:O:21:DT:H71	1.93	0.51
1:A:26:LEU:CB	1:A:190:ASP:HB2	2.39	0.51
1:A:71:GLU:OE2	1:A:127:THR:HG22	2.10	0.51
1:A:149:ALA:HB1	1:A:163:PRO:HB2	1.93	0.51
1:A:205:ARG:HD3	1:A:206:ASP:N	2.25	0.51
1:B:85:VAL:HB	1:B:118:VAL:HA	1.93	0.51
2:C:909:ASP:OD2	2:C:1001:LEU:HD11	2.11	0.51
3:D:88:ARG:O	3:D:321:PRO:HB3	2.10	0.51
3:D:768:ASP:HA	3:D:771:ASN:ND2	2.22	0.51
5:F:342:LYS:HG2	7:O:30:DC:OP2	2.10	0.51
6:J:64:LEU:HD23	6:J:65:ILE:N	2.26	0.51
1:A:54:ILE:HB	1:A:137:GLU:O	2.11	0.51
2:C:224:VAL:HB	2:C:232:GLN:CB	2.40	0.51
2:C:657:TYR:HA	2:C:670:TYR:O	2.10	0.51
2:C:1008:ALA:H	2:C:1023:VAL:H	1.57	0.51
2:C:1134:ASN:N	3:D:13:GLY:O	2.43	0.51
3:D:614:SER:OG	3:D:617:GLU:N	2.34	0.51
3:D:824:VAL:HG11	3:D:851:ILE:HG22	1.92	0.51
3:D:1169:ASP:HB2	3:D:1202:ALA:HB3	1.92	0.51
4:E:87:LEU:HD13	4:E:88:GLN:HB2	1.92	0.51
5:F:262:LEU:O	5:F:265:GLU:HB2	2.11	0.51
5:F:438:PHE:C	6:J:6:LEU:CG	2.71	0.51
1:A:149:ALA:HB1	1:A:163:PRO:CB	2.41	0.51
1:B:48:GLY:O	1:B:143:GLY:N	2.33	0.51
2:C:132:PRO:HB3	2:C:153:PHE:CE1	2.45	0.51
2:C:226:ILE:O	2:C:229:LYS:HB2	2.11	0.51
2:C:484:CYS:CB	2:C:588:SER:HB3	2.41	0.51
2:C:488:THR:CG2	2:C:606:LEU:HD11	2.41	0.51
2:C:754:GLU:HA	2:C:871:VAL:O	2.11	0.51
2:C:1109:GLY:CA	3:D:458:LYS:HE3	2.41	0.51
3:D:31:PRO:HB3	3:D:348:ILE:HB	1.93	0.51
3:D:370:GLU:OE1	5:F:322:GLN:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:383:ASP:OD2	3:D:386:ARG:NH2	2.44	0.51
3:D:1052:ARG:CA	3:D:1104:HIS:HA	2.36	0.51
3:D:1130:VAL:O	3:D:1134:LEU:HG	2.11	0.51
3:D:1169:ASP:HB2	3:D:1202:ALA:CB	2.40	0.51
3:D:1269:ASN:CB	4:E:109:GLY:HA3	2.40	0.51
5:F:286:ARG:O	5:F:290:ARG:HG3	2.10	0.51
5:F:522:VAL:HG23	5:F:523:LEU:CD2	2.40	0.51
6:J:64:LEU:CD2	6:J:66:GLU:H	2.24	0.51
1:A:5:GLN:HE21	1:A:25:PRO:HG3	1.74	0.51
1:A:27:GLU:OE1	1:A:28:PRO:HD2	2.11	0.51
1:A:80:LEU:HD21	1:A:125:ILE:HG23	1.93	0.51
1:A:85:VAL:HG23	1:A:117:THR:C	2.31	0.51
1:A:175:THR:HB	2:C:910:GLY:HA3	1.92	0.51
1:B:28:PRO:HA	1:B:190:ASP:OD2	2.10	0.51
1:B:55:ARG:HB3	1:B:161:ARG:HA	1.93	0.51
2:C:140:ILE:CG1	2:C:147:ILE:HA	2.40	0.51
2:C:185:VAL:HG12	2:C:204:VAL:CG2	2.40	0.51
2:C:241:LEU:HB3	2:C:243:TRP:HD1	1.74	0.51
2:C:357:VAL:CG2	2:C:358:PRO:HD2	2.41	0.51
2:C:641:VAL:CG2	2:C:708:THR:HG21	2.41	0.51
2:C:1137:VAL:HG21	3:D:7:PHE:CD1	2.38	0.51
3:D:317:VAL:HG12	3:D:318:PRO:O	2.10	0.51
3:D:668:LEU:O	3:D:671:VAL:HB	2.10	0.51
3:D:877:LEU:O	3:D:880:VAL:HB	2.10	0.51
5:F:283:TRP:HA	5:F:286:ARG:HE	1.76	0.51
5:F:310:TYR:HD2	5:F:355:ILE:HG21	1.75	0.51
1:A:2:LEU:HD23	1:B:143:GLY:HA2	1.93	0.51
1:A:22:VAL:HA	1:A:192:LEU:O	2.11	0.51
2:C:400:VAL:O	2:C:404:MET:N	2.42	0.51
2:C:587:VAL:HG23	2:C:591:THR:HG22	1.93	0.51
2:C:633:ARG:HH11	2:C:636:ILE:HG13	1.75	0.51
2:C:633:ARG:CA	2:C:636:ILE:HG12	2.41	0.51
2:C:854:SER:HA	2:C:867:GLU:HA	1.93	0.51
2:C:889:HIS:HB2	2:C:891:ASN:CG	2.32	0.51
3:D:545:LEU:HD12	3:D:546:PRO:CD	2.32	0.51
3:D:820:MET:HG3	3:D:837:LYS:HA	1.93	0.51
3:D:866:ARG:NE	3:D:1008:THR:O	2.43	0.51
3:D:912:ARG:HG3	3:D:916:ILE:HD12	1.93	0.51
3:D:1172:SER:OG	3:D:1199:GLU:HG3	2.11	0.51
8:P:8:DT:H2'	8:P:9:DT:H72	1.93	0.51
1:B:134:LEU:HD11	1:B:136:VAL:CG2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:170:PRO:HA	1:B:199:LYS:HE3	1.92	0.51
2:C:354:THR:N	2:C:365:VAL:HG23	2.26	0.51
2:C:356:THR:HA	2:C:362:GLU:HA	1.93	0.51
2:C:454:ARG:O	2:C:455:LEU:HD23	2.11	0.51
3:D:222:ILE:HD11	3:D:244:LEU:CB	2.41	0.51
3:D:372:ARG:O	3:D:376:GLU:HG3	2.11	0.51
3:D:497:LEU:O	3:D:543:VAL:HA	2.11	0.51
3:D:566:LEU:HB3	3:D:571:GLY:O	2.11	0.51
4:E:38:PRO:CG	4:E:43:LEU:HD21	2.41	0.51
5:F:347:ALA:O	5:F:351:ILE:HG13	2.10	0.51
1:B:50:ALA:C	1:B:140:VAL:HG13	2.31	0.50
2:C:61:PHE:CE2	2:C:65:ILE:HD11	2.46	0.50
2:C:113:ASP:O	2:C:131:ALA:HB1	2.10	0.50
2:C:275:LEU:HD12	2:C:276:ASP:N	2.27	0.50
2:C:484:CYS:SG	2:C:588:SER:N	2.84	0.50
2:C:541:VAL:C	2:C:561:VAL:HG23	2.32	0.50
2:C:583:PRO:HG2	2:C:584:ARG:NE	2.26	0.50
2:C:1011:PHE:CE1	2:C:1018:PRO:HB3	2.42	0.50
2:C:1100:VAL:HG12	5:F:447:ALA:CB	2.41	0.50
2:C:1131:LEU:HD21	3:D:402:LEU:HB3	1.92	0.50
3:D:177:LEU:HA	3:D:180:ASP:OD2	2.11	0.50
3:D:190:LYS:HZ3	3:D:192:ASP:HB3	1.75	0.50
3:D:222:ILE:HD11	3:D:244:LEU:HA	1.93	0.50
3:D:222:ILE:CG1	3:D:244:LEU:HD12	2.38	0.50
3:D:262:GLN:HG2	3:D:266:GLU:OE2	2.11	0.50
3:D:813:GLN:O	3:D:816:THR:OG1	2.27	0.50
3:D:896:GLY:O	3:D:961:LYS:HG3	2.11	0.50
3:D:1061:PHE:HE2	3:D:1063:LYS:HE2	1.75	0.50
3:D:1085:ARG:HB2	3:D:1113:GLU:OE2	2.11	0.50
3:D:1231:ARG:HA	3:D:1234:THR:HG22	1.92	0.50
5:F:250:ALA:O	5:F:254:GLU:HG3	2.10	0.50
6:J:40:PHE:CZ	6:J:58:ASN:HB2	2.46	0.50
7:O:20:DT:C2'	7:O:21:DT:H71	2.42	0.50
1:B:3:ILE:CD1	1:B:234:ILE:HG12	2.41	0.50
1:B:41:THR:O	1:B:45:SER:N	2.44	0.50
2:C:548:ILE:HA	2:C:554:PHE:HD1	1.75	0.50
2:C:571:VAL:HG22	2:C:572:PRO:O	2.11	0.50
2:C:756:GLU:CG	2:C:868:LEU:HD21	2.41	0.50
3:D:148:LEU:O	3:D:148:LEU:HD13	2.11	0.50
3:D:212:ALA:HA	3:D:215:GLU:CG	2.42	0.50
3:D:940:ARG:HH11	3:D:963:ARG:HH21	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:47:VAL:HG11	4:E:53:LEU:HD23	1.93	0.50
5:F:410:VAL:O	5:F:414:GLN:HG3	2.11	0.50
6:J:54:TRP:N	6:J:62:GLY:O	2.44	0.50
1:A:117:THR:HG23	1:A:119:HIS:CE1	2.46	0.50
1:A:215:LEU:HD12	1:A:219:PHE:CE2	2.46	0.50
1:B:223:ARG:HE	1:B:227:VAL:HG13	1.76	0.50
2:C:128:THR:CB	2:C:169:ASN:H	2.24	0.50
2:C:202:VAL:CG1	2:C:214:PHE:HB2	2.40	0.50
2:C:224:VAL:HG21	2:C:234:VAL:N	2.26	0.50
2:C:650:ILE:HG12	2:C:694:ASP:C	2.32	0.50
2:C:732:GLU:OE2	3:D:535:ASP:HA	2.11	0.50
2:C:1137:VAL:HA	3:D:10:LEU:HD12	1.93	0.50
3:D:58:TRP:CA	3:D:82:VAL:HG23	2.41	0.50
3:D:136:ILE:CG1	3:D:229:LEU:HD11	2.41	0.50
3:D:412:ARG:N	3:D:1227:GLN:HG3	2.26	0.50
3:D:1273:GLN:O	4:E:105:GLU:N	2.43	0.50
5:F:387:LEU:O	5:F:391:GLY:N	2.43	0.50
1:A:172:LEU:HB3	1:A:197:GLU:HG2	1.93	0.50
2:C:150:GLN:CD	2:C:414:PRO:HG2	2.32	0.50
2:C:200:HIS:CG	2:C:349:HIS:HB2	2.46	0.50
2:C:230:ARG:HH21	5:F:212:LEU:HA	1.76	0.50
2:C:475:VAL:HG23	3:D:854:HIS:ND1	2.27	0.50
2:C:1066:GLN:HG3	3:D:427:ARG:NH2	2.26	0.50
3:D:181:LEU:HD21	3:D:198:ARG:CG	2.41	0.50
3:D:748:HIS:CE1	3:D:752:ARG:HD2	2.46	0.50
3:D:1274:PRO:HG2	4:E:79:VAL:HG11	1.94	0.50
1:A:95:MET:CG	1:A:138:LEU:HD22	2.42	0.50
1:B:39:ARG:HD2	1:B:176:TYR:CE1	2.47	0.50
1:B:77:ILE:O	1:B:81:LYS:HG3	2.11	0.50
2:C:861:LEU:HD23	2:C:865:VAL:CG1	2.41	0.50
2:C:904:MET:HG3	2:C:913:VAL:HG22	1.92	0.50
3:D:34:ILE:HG13	3:D:40:LYS:O	2.12	0.50
3:D:75:CYS:SG	3:D:77:ARG:HB2	2.52	0.50
3:D:353:ARG:O	3:D:357:LEU:HG	2.10	0.50
3:D:434:PRO:O	3:D:717:LYS:NZ	2.39	0.50
3:D:566:LEU:HD23	3:D:573:PRO:HA	1.92	0.50
7:O:1:DG:H2''	7:O:2:DC:O5'	2.11	0.50
1:B:21:PHE:HB2	1:B:194:LEU:CB	2.30	0.50
1:B:32:TYR:CZ	1:B:178:VAL:HG21	2.46	0.50
1:B:55:ARG:HD3	1:B:137:GLU:OE1	2.12	0.50
2:C:277:ILE:HA	2:C:280:LYS:NZ	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:413:THR:HG23	2:C:416:THR:H	1.76	0.50
2:C:731:TYR:H	2:C:734:ALA:HB3	1.75	0.50
2:C:736:ILE:CD1	2:C:916:ILE:HB	2.42	0.50
2:C:903:ASP:OD1	2:C:903:ASP:N	2.43	0.50
3:D:103:HIS:HB3	3:D:106:TYR:CD2	2.45	0.50
3:D:322:PRO:HA	3:D:325:ARG:CG	2.42	0.50
3:D:1181:ILE:HG13	3:D:1182:ASP:O	2.10	0.50
5:F:513:LYS:HD2	5:F:516:HIS:CE1	2.46	0.50
6:J:97:LEU:O	6:J:100:GLU:HB3	2.12	0.50
7:O:19:DA:H2''	7:O:20:DT:O5'	2.12	0.50
1:A:107:ALA:HB3	1:A:121:PRO:C	2.31	0.50
2:C:113:ASP:OD2	2:C:132:PRO:HB2	2.11	0.50
2:C:188:ASP:O	2:C:201:SER:N	2.45	0.50
2:C:347:ARG:CD	2:C:355:MET:HG3	2.41	0.50
2:C:540:VAL:CG2	2:C:576:VAL:HA	2.42	0.50
2:C:762:THR:HG23	2:C:764:LEU:N	2.27	0.50
2:C:1055:GLN:HE22	3:D:420:LYS:HD3	1.77	0.50
3:D:58:TRP:CE2	3:D:68:VAL:HG13	2.47	0.50
3:D:498:LEU:O	3:D:509:ILE:HG12	2.12	0.50
3:D:922:ALA:HB1	3:D:981:ARG:HB3	1.92	0.50
3:D:981:ARG:HG2	3:D:982:SER:O	2.12	0.50
5:F:381:ARG:O	5:F:385:GLU:HG3	2.11	0.50
5:F:408:GLU:O	5:F:412:GLU:HG3	2.12	0.50
1:A:88:GLU:HG2	1:A:115:GLY:O	2.11	0.50
1:B:60:LEU:HD12	1:B:61:HIS:HD2	1.77	0.50
2:C:102:SER:HB2	2:C:143:ASN:ND2	2.27	0.50
2:C:275:LEU:HB3	2:C:289:LYS:HZ1	1.77	0.50
2:C:426:ALA:HA	2:C:429:GLU:CG	2.42	0.50
2:C:507:ASN:CB	2:C:511:PHE:HB2	2.41	0.50
2:C:822:ARG:CD	2:C:827:GLU:HB2	2.41	0.50
3:D:334:ARG:NH1	5:F:418:ARG:CA	2.74	0.50
3:D:406:LEU:CB	3:D:409:LYS:HB2	2.38	0.50
3:D:420:LYS:NZ	11:D:1404:C0L:C16	2.74	0.50
3:D:646:ILE:O	3:D:649:GLU:HB3	2.12	0.50
3:D:917:GLU:HG2	3:D:921:TYR:CE2	2.46	0.50
5:F:348:THR:CA	5:F:351:ILE:HD12	2.37	0.50
8:P:11:DA:H1'	8:P:12:DA:C5'	2.41	0.50
1:A:223:ARG:HD2	1:B:213:LYS:HA	1.94	0.50
1:B:74:THR:HA	1:B:77:ILE:CD1	2.29	0.50
2:C:38:ARG:HB2	2:C:971:ILE:HD12	1.94	0.50
2:C:240:ALA:HA	2:C:274:LEU:HD22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:704:ASP:OD2	2:C:710:ASP:N	2.45	0.50
2:C:1103:TYR:HE2	5:F:448:VAL:HG23	1.75	0.50
2:C:1138:LEU:HA	3:D:-1:GLY:N	2.26	0.50
3:D:743:LYS:HA	3:D:746:LEU:CD1	2.30	0.50
3:D:1061:PHE:HA	3:D:1082:LYS:N	2.27	0.50
6:J:31:ARG:HG2	6:J:41:GLU:CG	2.40	0.50
6:J:34:THR:HG21	6:J:40:PHE:HE2	1.77	0.50
7:O:3:DT:H1'	7:O:4:DT:H5'	1.93	0.50
7:O:6:DA:H1'	7:O:7:DC:C5'	2.42	0.50
7:O:27:DA:P	7:O:27:DA:H2'	2.51	0.50
8:P:5:DC:H1'	8:P:6:DA:O5'	2.12	0.50
8:P:16:DT:H2''	8:P:17:DT:H71	1.94	0.50
1:A:186:ARG:HH11	1:B:148:PRO:HB2	1.77	0.49
1:B:1:MET:N	1:B:232:ILE:HA	2.27	0.49
1:B:40:ARG:NH1	3:D:623:ASP:HB3	2.20	0.49
1:B:107:ALA:HB3	1:B:121:PRO:O	2.11	0.49
1:B:215:LEU:O	1:B:218:LEU:HB3	2.12	0.49
2:C:147:ILE:C	2:C:148:LYS:HD2	2.33	0.49
2:C:326:GLU:OE1	2:C:326:GLU:N	2.45	0.49
2:C:347:ARG:O	2:C:350:GLU:HB3	2.11	0.49
2:C:523:VAL:HG13	2:C:552:GLY:HA3	1.93	0.49
2:C:540:VAL:O	2:C:576:VAL:HG13	2.12	0.49
2:C:611:MET:O	2:C:614:GLN:N	2.40	0.49
2:C:797:ARG:O	2:C:839:VAL:HG11	2.11	0.49
2:C:1136:GLU:O	3:D:10:LEU:HD12	2.13	0.49
3:D:550:GLU:OE2	4:E:62:ARG:HD2	2.12	0.49
3:D:595:ASP:N	3:D:598:GLU:OE2	2.45	0.49
3:D:820:MET:HG3	3:D:837:LYS:C	2.32	0.49
3:D:930:VAL:HG12	3:D:936:VAL:CG2	2.38	0.49
3:D:1090:LYS:HG3	3:D:1097:ARG:HD3	1.93	0.49
3:D:1190:ASN:CA	3:D:1193:VAL:HG12	2.40	0.49
3:D:1276:GLU:HG2	3:D:1279:ARG:NE	2.26	0.49
5:F:274:PRO:HG2	5:F:277:GLN:CG	2.41	0.49
5:F:297:GLU:HA	5:F:300:LEU:CD1	2.42	0.49
5:F:336:ASP:N	7:O:27:DA:N1	2.46	0.49
5:F:457:GLN:O	5:F:460:LEU:HB3	2.11	0.49
5:F:510:THR:O	5:F:514:LEU:HD23	2.12	0.49
7:O:25:DC:C2'	7:O:26:DT:H71	2.42	0.49
8:P:23:DA:H2''	8:P:24:DA:O5'	2.12	0.49
1:A:74:THR:HA	1:A:77:ILE:HG12	1.93	0.49
1:B:137:GLU:C	1:B:138:LEU:HD12	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:347:ARG:HA	2:C:350:GLU:CB	2.41	0.49
2:C:354:THR:HA	2:C:363:VAL:O	2.12	0.49
2:C:718:ASN:C	2:C:719:LEU:HD12	2.32	0.49
3:D:672:MET:HA	3:D:675:GLU:CD	2.32	0.49
3:D:781:ALA:O	3:D:785:VAL:HG23	2.12	0.49
5:F:300:LEU:O	5:F:303:VAL:HB	2.12	0.49
8:P:24:DA:H2''	8:P:25:DG:H5'	1.94	0.49
2:C:353:THR:O	2:C:365:VAL:N	2.38	0.49
2:C:662:HIS:HB2	2:C:666:THR:O	2.12	0.49
2:C:1007:LYS:HB3	2:C:1023:VAL:N	2.26	0.49
3:D:404:ASP:O	3:D:409:LYS:HE2	2.12	0.49
3:D:441:CYS:SG	3:D:514:PRO:HA	2.52	0.49
3:D:498:LEU:O	3:D:509:ILE:HA	2.13	0.49
3:D:1044:ALA:HB1	3:D:1112:MET:HB2	1.93	0.49
3:D:1049:VAL:CA	3:D:1107:VAL:HA	2.42	0.49
1:A:165:ASP:OD2	2:C:878:LYS:NZ	2.28	0.49
1:B:26:LEU:H	1:B:189:PHE:HB3	1.76	0.49
1:B:147:VAL:HG22	1:B:148:PRO:O	2.12	0.49
2:C:38:ARG:HB2	2:C:971:ILE:CD1	2.42	0.49
2:C:388:GLN:HA	2:C:391:VAL:HG12	1.93	0.49
3:D:494:HIS:HB2	4:E:90:LYS:NZ	2.28	0.49
3:D:564:ASN:O	3:D:565:ILE:HD13	2.13	0.49
3:D:589:THR:HG21	3:D:688:MET:CB	2.42	0.49
3:D:683:PHE:HE2	3:D:685:ASN:HB2	1.76	0.49
3:D:742:LYS:HG2	3:D:746:LEU:CD1	2.42	0.49
3:D:759:GLN:O	3:D:762:ARG:HB2	2.13	0.49
3:D:1254:ILE:HD11	3:D:1256:LYS:HB3	1.93	0.49
5:F:330:ARG:HA	5:F:333:GLU:OE1	2.11	0.49
2:C:252:PHE:HB3	2:C:255:SER:OG	2.13	0.49
2:C:529:VAL:HG12	2:C:531:LEU:CG	2.41	0.49
2:C:633:ARG:HA	2:C:636:ILE:CG1	2.39	0.49
2:C:721:VAL:HG23	2:C:915:ILE:HG13	1.95	0.49
2:C:737:LEU:HD23	2:C:915:ILE:CG2	2.42	0.49
3:D:134:TYR:CE1	3:D:256:MET:HB2	2.47	0.49
3:D:589:THR:HB	3:D:687:GLN:HA	1.95	0.49
3:D:1249:LYS:CD	11:D:1404:C0L:C32	2.91	0.49
4:E:38:PRO:HG2	4:E:43:LEU:CD1	2.39	0.49
4:E:50:LYS:O	4:E:53:LEU:HB3	2.12	0.49
1:A:43:LEU:CD2	2:C:901:VAL:HG13	2.41	0.49
1:A:87:SER:HB3	1:A:142:ARG:HD3	1.95	0.49
2:C:89:VAL:HA	2:C:92:GLU:CD	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:180:VAL:O	2:C:377:ARG:N	2.45	0.49
2:C:187:PHE:H	2:C:368:ASP:HB2	1.77	0.49
2:C:205:ILE:O	2:C:205:ILE:HG13	2.13	0.49
2:C:231:ARG:HG3	5:F:211:ALA:HB1	1.94	0.49
2:C:507:ASN:HA	2:C:513:GLU:OE2	2.12	0.49
2:C:571:VAL:HG23	2:C:575:GLU:OE1	2.11	0.49
2:C:737:LEU:HD12	2:C:895:ILE:CG2	2.43	0.49
2:C:755:HIS:O	2:C:870:ARG:HA	2.13	0.49
3:D:184:LEU:CB	3:D:194:ARG:HG2	2.42	0.49
3:D:500:ARG:HD3	3:D:534:ALA:HB2	1.92	0.49
3:D:1250:GLU:O	3:D:1254:ILE:HG12	2.12	0.49
3:D:1251:ASN:HD22	3:D:1259:PRO:CD	2.23	0.49
5:F:440:GLU:C	6:J:7:ARG:HA	2.31	0.49
6:J:30:ALA:O	6:J:41:GLU:HA	2.12	0.49
1:A:167:ILE:O	1:A:167:ILE:HG13	2.13	0.49
1:B:159:ILE:HD12	1:B:160:GLY:N	2.28	0.49
1:B:226:ASN:ND2	1:B:228:GLU:HB2	2.28	0.49
2:C:178:GLN:O	2:C:378:LEU:HD12	2.13	0.49
2:C:241:LEU:HD21	2:C:335:GLU:CB	2.42	0.49
2:C:540:VAL:HG13	2:C:577:ASP:N	2.26	0.49
2:C:542:ALA:HA	2:C:561:VAL:HA	1.93	0.49
2:C:994:PRO:HA	2:C:999:ASP:O	2.12	0.49
2:C:1017:GLU:OE1	2:C:1018:PRO:HD2	2.12	0.49
2:C:1049:TYR:CD2	2:C:1056:PRO:HG3	2.46	0.49
3:D:320:ILE:HG13	3:D:321:PRO:HD2	1.95	0.49
3:D:500:ARG:HB2	3:D:541:MET:CG	2.41	0.49
3:D:638:THR:HG22	3:D:661:ALA:CB	2.43	0.49
3:D:1051:GLY:O	3:D:1105:VAL:HG22	2.13	0.49
3:D:1157:ILE:HG22	3:D:1161:MET:CE	2.43	0.49
3:D:1160:GLN:HA	3:D:1163:ARG:CG	2.43	0.49
3:D:1168:ILE:HG13	3:D:1202:ALA:HB1	1.93	0.49
3:D:1184:ALA:HA	3:D:1187:GLU:OE1	2.12	0.49
3:D:1265:ASN:HB3	3:D:1269:ASN:ND2	2.27	0.49
4:E:56:TYR:HE2	4:E:99:ILE:HG12	1.77	0.49
6:J:101:ARG:HA	6:J:104:LEU:HB3	1.95	0.49
1:B:3:ILE:O	1:B:4:SER:OG	2.26	0.49
1:B:54:ILE:HD12	1:B:56:ILE:HD11	1.94	0.49
2:C:189:GLU:O	2:C:189:GLU:HG2	2.13	0.49
2:C:476:HIS:CG	2:C:477:PRO:HD2	2.47	0.49
2:C:840:PRO:HG2	2:C:843:GLU:CD	2.32	0.49
2:C:1035:HIS:HA	2:C:1040:LYS:NZ	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:218:ARG:O	3:D:221:ASP:HB3	2.13	0.49
3:D:328:VAL:HG13	3:D:336:ALA:HB3	1.93	0.49
3:D:550:GLU:HG3	4:E:58:ALA:CB	2.42	0.49
3:D:572:ARG:HB2	3:D:573:PRO:HD2	1.93	0.49
3:D:588:LEU:HD13	3:D:588:LEU:O	2.13	0.49
3:D:607:PRO:HG2	3:D:609:THR:CG2	2.42	0.49
3:D:648:ALA:HA	3:D:652:GLY:H	1.77	0.49
3:D:851:ILE:HA	3:D:854:HIS:CD2	2.47	0.49
3:D:1148:SER:O	3:D:1149:ILE:HD13	2.12	0.49
1:B:51:VAL:HA	1:B:140:VAL:HA	1.94	0.49
1:B:213:LYS:HG2	1:B:217:GLU:OE2	2.13	0.49
2:C:571:VAL:CG2	2:C:575:GLU:HB2	2.43	0.49
2:C:633:ARG:HA	2:C:636:ILE:CD1	2.42	0.49
2:C:822:ARG:HD2	2:C:827:GLU:O	2.13	0.49
3:D:596:THR:HB	3:D:628:SER:CB	2.42	0.49
3:D:866:ARG:NH1	3:D:1011:THR:HG22	2.27	0.49
3:D:924:THR:HA	3:D:942:GLN:O	2.13	0.49
4:E:40:ILE:HA	4:E:43:LEU:HD12	1.95	0.49
5:F:366:ILE:O	5:F:366:ILE:HG13	2.13	0.49
6:J:55:LEU:HD21	6:J:59:GLY:HA2	1.95	0.49
8:P:6:DA:P	8:P:6:DA:H2'	2.52	0.49
8:P:17:DT:H1'	8:P:18:DT:C5'	2.42	0.49
1:A:3:ILE:O	1:A:3:ILE:HG13	2.13	0.49
1:A:14:LEU:HB2	1:A:18:ARG:HD3	1.93	0.49
1:A:66:VAL:O	1:A:69:VAL:HG22	2.13	0.49
2:C:42:ALA:HA	2:C:978:ASP:OD2	2.12	0.49
2:C:220:ASP:CG	2:C:257:ILE:HG12	2.33	0.49
2:C:338:VAL:O	2:C:341:THR:HB	2.13	0.49
2:C:620:ARG:HB3	2:C:717:LYS:NZ	2.27	0.49
2:C:721:VAL:CG2	2:C:915:ILE:HG13	2.43	0.49
3:D:71:LYS:C	3:D:73:ILE:HG12	2.33	0.49
3:D:656:TRP:N	3:D:660:ASP:OD2	2.37	0.49
3:D:1027:GLY:O	3:D:1030:ARG:HB3	2.12	0.49
2:C:281:LEU:HD23	2:C:295:LEU:HD21	1.93	0.48
2:C:403:ARG:CD	2:C:417:LEU:HA	2.42	0.48
2:C:463:LEU:HD22	2:C:468:ALA:HB2	1.94	0.48
2:C:587:VAL:HG23	2:C:591:THR:CG2	2.42	0.48
3:D:17:ALA:O	3:D:21:ARG:HG2	2.13	0.48
3:D:319:VAL:HG13	3:D:344:TYR:CE1	2.48	0.48
3:D:500:ARG:CB	3:D:541:MET:HG2	2.41	0.48
3:D:709:VAL:O	3:D:713:VAL:HG23	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:742:LYS:CE	3:D:746:LEU:HD21	2.43	0.48
3:D:800:ILE:HG12	3:D:804:ASP:OD1	2.13	0.48
3:D:1251:ASN:OD1	3:D:1254:ILE:HD11	2.14	0.48
2:C:229:LYS:NZ	2:C:281:LEU:HD12	2.28	0.48
2:C:289:LYS:HE2	2:C:289:LYS:HA	1.95	0.48
2:C:607:MET:O	2:C:611:MET:HG3	2.13	0.48
3:D:28:VAL:HG21	3:D:46:LEU:HD23	1.96	0.48
3:D:124:ASP:HB3	3:D:234:LEU:HD21	1.95	0.48
3:D:141:GLU:OE1	3:D:144:ARG:NH2	2.46	0.48
3:D:163:GLU:OE1	3:D:166:ARG:HD3	2.13	0.48
3:D:222:ILE:HD13	3:D:247:ARG:NH2	2.28	0.48
3:D:348:ILE:HG22	3:D:352:ASN:HD21	1.79	0.48
3:D:1169:ASP:HB2	3:D:1202:ALA:H	1.78	0.48
6:J:33:ARG:N	6:J:63:THR:O	2.45	0.48
8:P:16:DT:H2''	8:P:17:DT:OP2	2.12	0.48
1:B:75:GLU:CD	1:B:78:LEU:HD11	2.33	0.48
2:C:300:PHE:HA	2:C:306:TYR:CD2	2.48	0.48
2:C:334:THR:HG23	2:C:336:GLU:HB3	1.95	0.48
2:C:347:ARG:HA	2:C:350:GLU:OE1	2.13	0.48
2:C:961:ASP:OD1	2:C:962:GLU:N	2.35	0.48
3:D:181:LEU:HD22	3:D:185:GLU:OE2	2.13	0.48
3:D:1265:ASN:HB3	3:D:1269:ASN:HD22	1.77	0.48
5:F:297:GLU:HA	5:F:300:LEU:HD12	1.94	0.48
5:F:372:MET:O	5:F:375:VAL:HG22	2.13	0.48
1:A:221:LEU:HD12	1:A:225:LEU:HD22	1.94	0.48
1:B:47:PRO:HG3	1:B:144:ARG:CZ	2.44	0.48
2:C:32:VAL:HB	2:C:35:ALA:HB2	1.95	0.48
2:C:109:ASP:OD2	2:C:111:ARG:HD2	2.13	0.48
2:C:335:GLU:O	2:C:339:VAL:HG13	2.13	0.48
2:C:396:MET:CE	2:C:419:ASN:H	2.26	0.48
2:C:476:HIS:HB3	2:C:479:HIS:HD2	1.77	0.48
2:C:689:ILE:HG12	2:C:702:ILE:C	2.34	0.48
2:C:727:GLU:H	3:D:725:THR:CG2	2.26	0.48
2:C:776:ILE:HG13	2:C:780:VAL:HG21	1.96	0.48
2:C:1081:ALA:HB1	3:D:554:GLU:CD	2.34	0.48
3:D:173:ARG:CG	3:D:205:MET:HB2	2.42	0.48
3:D:229:LEU:HD12	3:D:233:GLN:OE1	2.13	0.48
3:D:636:ARG:CB	3:D:663:MET:HG2	2.42	0.48
3:D:651:PHE:HD2	3:D:655:GLY:HA2	1.78	0.48
3:D:885:ILE:HA	3:D:994:ALA:HA	1.94	0.48
3:D:897:ILE:O	3:D:961:LYS:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1088:VAL:HG23	3:D:1098:VAL:CA	2.44	0.48
6:J:79:ARG:HD3	6:J:84:MET:SD	2.54	0.48
1:A:14:LEU:HD21	1:A:20:GLN:CD	2.34	0.48
1:A:61:HIS:HA	1:A:162:ILE:CD1	2.43	0.48
1:A:118:VAL:HG12	1:A:120:ASN:H	1.78	0.48
1:A:177:LYS:HG3	1:A:193:ILE:HB	1.96	0.48
1:B:56:ILE:HG23	1:B:136:VAL:HG22	1.96	0.48
2:C:222:VAL:CB	2:C:234:VAL:HG13	2.42	0.48
2:C:455:LEU:HD11	2:C:500:LEU:CD2	2.36	0.48
2:C:456:SER:HB3	2:C:497:ILE:HG12	1.96	0.48
2:C:505:ARG:HG2	2:C:506:VAL:H	1.77	0.48
2:C:600:ASP:CG	2:C:927:ASN:HA	2.34	0.48
2:C:816:PRO:HB3	5:F:479:PHE:O	2.13	0.48
2:C:846:LYS:O	2:C:873:VAL:HG13	2.12	0.48
3:D:144:ARG:HG3	3:D:226:PHE:CE2	2.49	0.48
3:D:364:GLU:HG3	3:D:368:ASN:OD1	2.13	0.48
6:J:88:ARG:O	6:J:89:ARG:HD3	2.13	0.48
8:P:15:DC:H2'	8:P:16:DT:H71	1.95	0.48
1:B:104:GLU:HG2	1:B:127:THR:CG2	2.41	0.48
2:C:161:THR:HG1	2:C:165:THR:H	1.53	0.48
2:C:161:THR:HG23	2:C:165:THR:O	2.13	0.48
2:C:236:VAL:O	2:C:240:ALA:CB	2.62	0.48
2:C:736:ILE:HD11	2:C:916:ILE:CG1	2.42	0.48
2:C:868:LEU:HD13	2:C:869:VAL:N	2.29	0.48
2:C:1114:GLU:HG2	2:C:1115:PRO:HD2	1.94	0.48
3:D:58:TRP:CE3	3:D:68:VAL:HG22	2.48	0.48
3:D:106:TYR:CB	3:D:114:LEU:HG	2.44	0.48
3:D:166:ARG:HH21	3:D:209:ARG:HB2	1.79	0.48
3:D:350:ARG:NH1	3:D:377:SER:HB3	2.28	0.48
3:D:494:HIS:NE2	3:D:545:LEU:HD11	2.29	0.48
3:D:821:LYS:N	3:D:838:SER:O	2.41	0.48
3:D:1207:LEU:HD13	3:D:1208:MET:N	2.29	0.48
7:O:19:DA:H2'	7:O:20:DT:H72	1.93	0.48
2:C:356:THR:HB	2:C:362:GLU:HB3	1.96	0.48
2:C:491:GLY:O	2:C:494:ILE:HG13	2.13	0.48
2:C:548:ILE:HD11	2:C:579:MET:SD	2.54	0.48
2:C:887:GLY:HA3	2:C:1028:MET:CE	2.43	0.48
2:C:1066:GLN:HG3	3:D:427:ARG:CZ	2.44	0.48
3:D:888:GLU:OE1	3:D:970:THR:HG22	2.13	0.48
1:B:146:TYR:HB2	3:D:620:MET:CE	2.44	0.48
2:C:50:VAL:HA	2:C:503:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:407:GLN:HB3	2:C:412:ILE:CG2	2.23	0.48
2:C:482:ARG:CG	2:C:512:ILE:HG21	2.43	0.48
2:C:626:VAL:HG13	2:C:888:ARG:HH22	1.78	0.48
2:C:1012:ASP:HB2	2:C:1019:PHE:CZ	2.48	0.48
2:C:1067:ARG:HH11	3:D:421:ARG:HH21	1.62	0.48
2:C:1068:PHE:HB2	3:D:544:HIS:CE1	2.49	0.48
2:C:1126:LYS:HD3	2:C:1129:GLN:OE1	2.13	0.48
3:D:278:ARG:O	3:D:281:ILE:HG13	2.14	0.48
3:D:732:SER:N	3:D:735:ASP:OD2	2.23	0.48
3:D:1063:LYS:NZ	3:D:1078:ASP:HB3	2.28	0.48
3:D:1198:GLY:C	3:D:1200:PRO:HD3	2.34	0.48
5:F:322:GLN:O	5:F:325:ASN:HB2	2.13	0.48
6:J:107:SER:HA	6:J:111:GLY:C	2.33	0.48
1:B:78:LEU:HD12	1:B:79:ASN:N	2.29	0.48
2:C:133:LEU:HB3	2:C:154:MET:HB3	1.95	0.48
2:C:179:LEU:HB3	2:C:376:ARG:HE	1.77	0.48
2:C:1040:LYS:O	2:C:1060:LYS:HE3	2.14	0.48
3:D:573:PRO:C	3:D:574:LEU:HD12	2.34	0.48
3:D:749:TYR:OH	3:D:780:GLU:HG3	2.14	0.48
3:D:923:ARG:HB3	3:D:962:VAL:CG2	2.33	0.48
3:D:1249:LYS:HE3	11:D:1404:COL:C30	2.30	0.48
5:F:261:GLN:HG2	6:J:82:TRP:CH2	2.49	0.48
5:F:273:LEU:HD11	5:F:281:MET:SD	2.54	0.48
5:F:306:LEU:HD12	5:F:351:ILE:HG21	1.95	0.48
1:A:26:LEU:HB2	1:A:190:ASP:CB	2.41	0.48
1:B:94:THR:O	1:B:95:MET:HG3	2.13	0.48
2:C:517:ARG:CG	2:C:581:VAL:HA	2.36	0.48
2:C:635:ALA:HA	2:C:638:ALA:CB	2.43	0.48
2:C:654:SER:OG	2:C:657:TYR:O	2.31	0.48
2:C:769:ILE:HD12	2:C:867:GLU:OE1	2.14	0.48
2:C:1007:LYS:HA	2:C:1023:VAL:O	2.14	0.48
2:C:1041:ILE:HD12	3:D:520:LYS:HB3	1.96	0.48
3:D:553:ALA:CB	4:E:54:VAL:HG13	2.43	0.48
3:D:895:ARG:CZ	3:D:967:THR:HA	2.44	0.48
3:D:939:GLU:OE1	3:D:939:GLU:N	2.41	0.48
5:F:310:TYR:HB3	5:F:313:ARG:HH21	1.79	0.48
6:J:90:SER:O	6:J:94:LEU:HG	2.14	0.48
1:A:223:ARG:NH2	1:A:224:GLU:HB2	2.29	0.47
1:B:53:SER:HB2	1:B:162:ILE:C	2.34	0.47
1:B:53:SER:HB3	1:B:163:PRO:HA	1.95	0.47
2:C:380:THR:HG22	2:C:383:GLU:HB2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:596:PHE:CE1	2:C:932:LEU:HB3	2.49	0.47
2:C:821:LEU:HD23	5:F:527:LEU:CD2	2.44	0.47
2:C:1121:PHE:CE1	3:D:1254:ILE:HG22	2.49	0.47
3:D:11:ARG:HG3	3:D:1242:SER:HB2	1.96	0.47
3:D:824:VAL:HG11	3:D:851:ILE:O	2.14	0.47
3:D:891:CYS:SG	3:D:969:ALA:N	2.77	0.47
3:D:1053:VAL:CG1	3:D:1055:LEU:HB2	2.44	0.47
3:D:1085:ARG:HB2	3:D:1113:GLU:CD	2.34	0.47
3:D:1160:GLN:HA	3:D:1163:ARG:HG2	1.96	0.47
5:F:231:TYR:O	5:F:235:ILE:HG12	2.14	0.47
7:O:27:DA:H4'	7:O:28:DT:OP1	2.14	0.47
1:B:99:LYS:O	1:B:134:LEU:N	2.41	0.47
2:C:89:VAL:HA	2:C:92:GLU:CG	2.43	0.47
2:C:180:VAL:HG21	2:C:379:ARG:HG3	1.96	0.47
2:C:257:ILE:O	2:C:261:THR:HG23	2.14	0.47
2:C:540:VAL:CG2	2:C:561:VAL:HG21	2.41	0.47
2:C:650:ILE:HG12	2:C:694:ASP:O	2.13	0.47
2:C:777:SER:HB3	2:C:780:VAL:CG2	2.44	0.47
2:C:825:PHE:CD2	5:F:527:LEU:HD11	2.49	0.47
3:D:107:PHE:CZ	3:D:129:ILE:HD11	2.48	0.47
3:D:633:ILE:HD12	3:D:635:VAL:CG1	2.43	0.47
3:D:1044:ALA:O	3:D:1116:ALA:HB2	2.13	0.47
3:D:1131:GLN:O	3:D:1135:VAL:HG23	2.14	0.47
5:F:220:GLU:OE2	5:F:221:LEU:HD12	2.14	0.47
5:F:247:VAL:O	5:F:251:LYS:HG3	2.13	0.47
5:F:358:ALA:HA	5:F:361:ASP:OD2	2.14	0.47
8:P:8:DT:C6	8:P:9:DT:H72	2.49	0.47
1:A:223:ARG:CD	1:B:216:VAL:HG11	2.44	0.47
1:B:18:ARG:O	1:B:18:ARG:HG2	2.12	0.47
1:B:87:SER:OG	1:B:116:VAL:HA	2.13	0.47
2:C:471:GLU:HA	2:C:474:ASP:OD2	2.15	0.47
2:C:681:GLY:O	2:C:751:HIS:HA	2.14	0.47
2:C:768:GLU:HB3	2:C:806:VAL:CG1	2.44	0.47
3:D:8:ASP:O	3:D:1245:LEU:HD12	2.15	0.47
3:D:149:SER:O	3:D:152:GLU:HG2	2.14	0.47
3:D:222:ILE:CG1	3:D:240:LEU:HD11	2.44	0.47
3:D:391:VAL:HB	3:D:399:LEU:CD1	2.44	0.47
3:D:499:ASN:OD1	3:D:509:ILE:HD11	2.15	0.47
3:D:576:MET:HG3	3:D:697:ILE:CD1	2.43	0.47
3:D:810:ASN:OD1	3:D:813:GLN:HG3	2.14	0.47
3:D:930:VAL:CG1	3:D:936:VAL:HG22	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:945:GLY:O	3:D:949:ILE:HG12	2.15	0.47
3:D:1235:ASP:CA	3:D:1238:ILE:HD12	2.37	0.47
4:E:33:LEU:H	4:E:36:THR:CG2	2.26	0.47
5:F:261:GLN:O	5:F:264:THR:HG22	2.14	0.47
1:A:49:ALA:HB2	1:A:142:ARG:HA	1.97	0.47
1:A:183:VAL:HG12	1:A:188:ASP:OD1	2.15	0.47
1:B:30:PHE:HB3	1:B:34:LEU:CD2	2.43	0.47
1:B:84:VAL:O	1:B:119:HIS:N	2.38	0.47
1:B:134:LEU:CD1	1:B:136:VAL:HG23	2.42	0.47
1:B:223:ARG:HH21	1:B:227:VAL:HG13	1.79	0.47
2:C:85:GLY:O	2:C:89:VAL:HG23	2.14	0.47
2:C:1007:LYS:NZ	2:C:1022:PRO:HG2	2.30	0.47
2:C:1049:TYR:CD1	2:C:1056:PRO:HD3	2.49	0.47
3:D:71:LYS:HG2	6:J:24:LEU:HD12	1.96	0.47
3:D:752:ARG:HA	3:D:755:LYS:HE3	1.96	0.47
1:A:52:THR:O	1:A:164:VAL:HB	2.15	0.47
1:A:215:LEU:HD12	1:A:219:PHE:HE2	1.79	0.47
1:B:78:LEU:HA	1:B:81:LYS:CE	2.35	0.47
1:B:87:SER:HA	1:B:115:GLY:O	2.14	0.47
1:B:213:LYS:O	1:B:216:VAL:HG12	2.15	0.47
2:C:55:ASP:HB3	2:C:59:ASP:OD2	2.13	0.47
2:C:179:LEU:CD2	2:C:378:LEU:HD13	2.42	0.47
2:C:208:ARG:HH22	2:C:305:ARG:HA	1.78	0.47
2:C:241:LEU:HG	2:C:243:TRP:HE1	1.79	0.47
2:C:426:ALA:HA	2:C:429:GLU:HG3	1.96	0.47
3:D:119:ASP:C	3:D:120:LEU:HD12	2.34	0.47
3:D:426:GLY:HA3	3:D:447:MET:HE3	1.96	0.47
3:D:570:SER:HB3	3:D:1148:SER:O	2.15	0.47
3:D:624:ARG:HD2	3:D:626:VAL:CG2	2.45	0.47
3:D:925:LEU:O	3:D:941:GLY:N	2.34	0.47
3:D:1064:ILE:HD12	3:D:1080:ILE:HD13	1.95	0.47
3:D:1190:ASN:HA	3:D:1193:VAL:CG1	2.40	0.47
6:J:23:ASP:C	6:J:24:LEU:HD22	2.35	0.47
1:A:221:LEU:HD22	1:B:7:PRO:HG2	1.95	0.47
1:B:38:LEU:O	1:B:41:THR:HB	2.14	0.47
1:B:81:LYS:HE3	3:D:613:SER:HB3	1.97	0.47
2:C:132:PRO:HA	2:C:156:ASP:HA	1.97	0.47
2:C:519:VAL:HG23	2:C:524:VAL:N	2.30	0.47
2:C:651:GLU:HB3	2:C:659:THR:O	2.15	0.47
2:C:981:GLN:O	2:C:985:LEU:HG	2.15	0.47
2:C:1066:GLN:HB2	3:D:425:SER:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1071:MET:SD	3:D:502:PRO:HA	2.53	0.47
3:D:245:VAL:HA	3:D:252:PHE:CZ	2.47	0.47
3:D:525:HIS:O	3:D:528:VAL:HG22	2.15	0.47
3:D:592:VAL:HG23	3:D:630:ARG:HB2	1.96	0.47
3:D:651:PHE:CD2	3:D:655:GLY:HA2	2.50	0.47
3:D:749:TYR:CE2	3:D:781:ALA:HA	2.50	0.47
3:D:1030:ARG:HA	3:D:1033:GLU:OE2	2.15	0.47
5:F:299:ASN:O	5:F:303:VAL:HG23	2.14	0.47
5:F:464:LEU:CD2	5:F:476:ARG:HE	2.26	0.47
1:A:28:PRO:HA	1:A:190:ASP:OD1	2.15	0.47
1:A:84:VAL:HG12	1:A:120:ASN:OD1	2.13	0.47
1:A:181:THR:OG1	1:A:189:PHE:O	2.21	0.47
2:C:138:GLU:OE2	2:C:140:ILE:HD11	2.15	0.47
2:C:140:ILE:HG12	2:C:146:GLU:O	2.15	0.47
2:C:255:SER:CB	2:C:258:MET:HB2	2.44	0.47
2:C:256:GLU:HA	2:C:259:ARG:NE	2.29	0.47
2:C:398:ARG:HD2	2:C:399:VAL:HG23	1.97	0.47
2:C:501:SER:HA	2:C:587:VAL:O	2.15	0.47
2:C:543:GLN:HG3	3:D:847:LEU:HD11	1.97	0.47
2:C:583:PRO:HG2	2:C:584:ARG:HE	1.79	0.47
2:C:648:GLY:O	2:C:695:ARG:HG3	2.15	0.47
2:C:762:THR:HG21	2:C:764:LEU:HB2	1.96	0.47
2:C:774:PRO:HG2	2:C:834:ASP:CB	2.42	0.47
2:C:1072:GLU:CA	2:C:1075:ALA:HB3	2.44	0.47
2:C:1098:GLY:O	2:C:1102:VAL:HG23	2.14	0.47
2:C:1120:SER:OG	11:D:1404:COL:O36	2.25	0.47
3:D:57:ASP:HB3	3:D:58:TRP:HE3	1.78	0.47
3:D:73:ILE:HA	6:J:43:PRO:O	2.14	0.47
3:D:245:VAL:HG22	3:D:252:PHE:CZ	2.50	0.47
3:D:374:LEU:O	3:D:378:VAL:HG23	2.14	0.47
3:D:475:MET:O	3:D:479:GLN:N	2.40	0.47
3:D:560:LEU:HB3	3:D:563:ASN:ND2	2.30	0.47
3:D:573:PRO:HD3	3:D:698:ASN:OD1	2.15	0.47
3:D:758:LYS:O	3:D:762:ARG:HG2	2.14	0.47
3:D:778:TRP:CH2	3:D:837:LYS:HD3	2.49	0.47
3:D:891:CYS:HB3	3:D:970:THR:CG2	2.43	0.47
3:D:1052:ARG:HB2	3:D:1102:GLY:C	2.35	0.47
3:D:1054:ARG:N	3:D:1067:VAL:HG23	2.30	0.47
3:D:1056:GLU:H	3:D:1064:ILE:HG12	1.80	0.47
3:D:1127:PRO:O	3:D:1131:GLN:HG3	2.14	0.47
3:D:1223:ALA:HA	3:D:1226:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1228:GLU:O	3:D:1232:VAL:HG23	2.15	0.47
5:F:273:LEU:HD23	5:F:274:PRO:O	2.13	0.47
5:F:315:MET:HE3	5:F:362:GLN:HB2	1.97	0.47
5:F:335:PHE:HA	5:F:346:TYR:CE2	2.50	0.47
5:F:390:LEU:CD2	5:F:394:PRO:HA	2.45	0.47
7:O:28:DT:H2''	7:O:29:DA:C8	2.50	0.47
8:P:15:DC:H1'	8:P:16:DT:C5'	2.45	0.47
1:A:65:THR:HG21	2:C:656:ASP:OD2	2.15	0.47
1:A:129:ASN:ND2	2:C:652:GLU:OE2	2.48	0.47
1:A:183:VAL:N	1:A:188:ASP:OD1	2.48	0.47
1:B:83:LEU:HD11	1:B:118:VAL:HG13	1.95	0.47
2:C:68:PRO:HA	2:C:71:ARG:HB3	1.97	0.47
2:C:385:ILE:O	2:C:389:ILE:HG13	2.14	0.47
2:C:483:MET:CE	2:C:498:GLY:HA3	2.44	0.47
2:C:547:PRO:O	2:C:555:VAL:HG23	2.15	0.47
2:C:647:SER:HA	2:C:697:GLU:CA	2.45	0.47
2:C:683:CYS:SG	2:C:684:ALA:N	2.88	0.47
2:C:739:ASN:ND2	2:C:743:GLU:OE2	2.47	0.47
3:D:190:LYS:HZ2	3:D:192:ASP:HB3	1.79	0.47
3:D:560:LEU:HD12	3:D:561:SER:H	1.80	0.47
3:D:601:PRO:HA	3:D:608:GLU:HG2	1.96	0.47
3:D:671:VAL:HG12	3:D:675:GLU:OE2	2.15	0.47
3:D:802:ILE:CG2	3:D:807:ALA:HB3	2.44	0.47
3:D:903:GLU:O	3:D:911:ILE:HG13	2.15	0.47
3:D:1152:LYS:HA	3:D:1155:GLU:CD	2.34	0.47
5:F:306:LEU:HD13	5:F:351:ILE:HG21	1.96	0.47
5:F:479:PHE:CB	5:F:481:LEU:HG	2.37	0.47
1:B:28:PRO:HA	1:B:29:GLY:HA2	1.39	0.47
1:B:84:VAL:HG11	1:B:200:ASN:OD1	2.15	0.47
2:C:202:VAL:HG12	2:C:214:PHE:HB2	1.96	0.47
2:C:674:LYS:HA	2:C:685:ASN:HA	1.97	0.47
2:C:770:THR:HG23	2:C:772:ASP:O	2.15	0.47
2:C:854:SER:HB3	2:C:857:ASP:OD2	2.14	0.47
2:C:1134:ASN:N	3:D:15:ALA:HB2	2.30	0.47
3:D:30:LYS:N	3:D:44:ASP:O	2.48	0.47
3:D:135:VAL:HG23	3:D:233:GLN:C	2.35	0.47
3:D:189:ALA:HB3	3:D:194:ARG:CD	2.38	0.47
3:D:320:ILE:CG2	3:D:325:ARG:HD3	2.45	0.47
3:D:844:LEU:HD23	3:D:848:GLU:HB3	1.97	0.47
3:D:991:ILE:HG22	3:D:991:ILE:O	2.15	0.47
3:D:1003:ILE:O	3:D:1006:PRO:HD2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:220:GLU:O	5:F:224:SER:OG	2.30	0.47
5:F:283:TRP:CA	5:F:286:ARG:HH21	2.27	0.47
1:A:144:ARG:HD2	1:B:1:MET:CE	2.45	0.47
1:A:207:ALA:O	1:A:210:SER:OG	2.25	0.47
2:C:111:ARG:CG	2:C:134:PHE:HB2	2.45	0.47
2:C:182:SER:HB3	2:C:377:ARG:HB3	1.97	0.47
2:C:381:VAL:HG13	2:C:382:GLY:H	1.79	0.47
2:C:635:ALA:HA	2:C:638:ALA:HB3	1.97	0.47
2:C:855:ARG:HH11	2:C:861:LEU:CB	2.27	0.47
2:C:1015:SER:OG	2:C:1016:GLY:N	2.47	0.47
2:C:1043:ALA:HB1	3:D:451:LEU:HD21	1.95	0.47
2:C:1125:LEU:O	2:C:1129:GLN:HG3	2.14	0.47
3:D:173:ARG:HH21	3:D:177:LEU:N	2.13	0.47
3:D:181:LEU:HD21	3:D:198:ARG:HD2	1.95	0.47
3:D:322:PRO:HA	3:D:325:ARG:NE	2.30	0.47
3:D:567:SER:HA	3:D:574:LEU:HD11	1.97	0.47
3:D:686:LYS:HB2	3:D:688:MET:CE	2.44	0.47
3:D:760:PHE:CG	3:D:770:ARG:HG2	2.50	0.47
3:D:890:ASP:OD1	3:D:963:ARG:NH1	2.37	0.47
3:D:1192:ARG:O	3:D:1195:ALA:HB3	2.14	0.47
5:F:415:GLN:C	5:F:418:ARG:HD3	2.30	0.47
6:J:79:ARG:NH2	7:O:24:DG:O3'	2.45	0.47
1:A:10:SER:OG	1:A:22:VAL:HG13	2.15	0.46
1:B:29:GLY:O	1:B:33:THR:HG23	2.14	0.46
2:C:32:VAL:HG13	2:C:33:PRO:HD2	1.98	0.46
2:C:302:LYS:O	2:C:302:LYS:HD2	2.16	0.46
2:C:346:VAL:O	2:C:350:GLU:HB2	2.14	0.46
2:C:795:GLU:HB2	2:C:846:LYS:NZ	2.30	0.46
2:C:997:ASP:HB2	2:C:999:ASP:OD2	2.14	0.46
3:D:64:LYS:HZ2	3:D:65:TYR:HE2	1.63	0.46
3:D:230:ALA:HB1	3:D:231:PRO:HD2	1.96	0.46
3:D:474:ARG:O	3:D:478:ARG:HG2	2.14	0.46
3:D:743:LYS:O	3:D:746:LEU:HB2	2.15	0.46
3:D:801:THR:HA	3:D:804:ASP:OD2	2.14	0.46
3:D:1039:VAL:HG12	3:D:1117:ASP:HB3	1.97	0.46
3:D:1271:ALA:N	4:E:107:THR:O	2.45	0.46
3:D:1275:THR:HG23	3:D:1278:ALA:H	1.80	0.46
5:F:241:LEU:HD22	5:F:245:GLU:CD	2.35	0.46
5:F:274:PRO:HG2	5:F:277:GLN:HB2	1.98	0.46
5:F:390:LEU:HD23	5:F:394:PRO:HA	1.96	0.46
5:F:415:GLN:CG	5:F:418:ARG:HD2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:19:DT:H2''	8:P:20:DG:C8	2.50	0.46
1:A:72:ASP:OD2	1:A:74:THR:HG22	2.16	0.46
2:C:33:PRO:HB2	2:C:700:GLN:CD	2.36	0.46
2:C:191:ILE:HA	2:C:197:LYS:O	2.15	0.46
2:C:717:LYS:HB2	2:C:719:LEU:HD11	1.97	0.46
2:C:1067:ARG:HG3	3:D:421:ARG:HA	1.96	0.46
2:C:1104:GLU:HG3	2:C:1108:LYS:HE3	1.96	0.46
2:C:1128:LEU:O	2:C:1133:LEU:HB2	2.15	0.46
3:D:7:PHE:HD2	3:D:1256:LYS:HZ1	1.62	0.46
3:D:101:VAL:HG11	3:D:378:VAL:HG11	1.97	0.46
3:D:107:PHE:CA	3:D:114:LEU:HD12	2.45	0.46
3:D:727:SER:OG	3:D:729:VAL:HG13	2.16	0.46
3:D:834:ARG:NE	3:D:834:ARG:HA	2.31	0.46
3:D:901:LEU:HD12	3:D:958:THR:HA	1.96	0.46
3:D:1065:THR:HG23	3:D:1075:VAL:C	2.36	0.46
3:D:1235:ASP:HA	3:D:1238:ILE:CD1	2.36	0.46
5:F:491:GLU:O	5:F:494:GLN:HB3	2.15	0.46
6:J:110:ARG:H	6:J:110:ARG:HD2	1.81	0.46
1:A:22:VAL:HG21	1:A:191:LYS:NZ	2.31	0.46
1:B:170:PRO:HA	1:B:199:LYS:NZ	2.30	0.46
2:C:92:GLU:HG3	2:C:93:LEU:HD22	1.95	0.46
2:C:181:ARG:O	2:C:181:ARG:NH1	2.40	0.46
2:C:311:VAL:HG22	2:C:509:PHE:CD1	2.50	0.46
2:C:543:GLN:CG	3:D:847:LEU:HD11	2.46	0.46
2:C:771:ARG:HD2	2:C:785:ASP:O	2.15	0.46
3:D:68:VAL:HB	6:J:17:GLU:OE1	2.15	0.46
3:D:131:PHE:HA	3:D:256:MET:CG	2.46	0.46
3:D:741:ARG:O	3:D:744:GLU:HG2	2.15	0.46
3:D:773:ALA:O	3:D:777:ILE:HG13	2.16	0.46
3:D:912:ARG:CG	3:D:916:ILE:HD12	2.46	0.46
3:D:1199:GLU:O	3:D:1199:GLU:HG2	2.15	0.46
1:A:172:LEU:CD2	1:A:199:LYS:HB3	2.45	0.46
1:A:176:TYR:HB2	1:A:192:LEU:HD11	1.97	0.46
1:B:170:PRO:O	1:B:199:LYS:HG2	2.14	0.46
2:C:108:SER:N	2:C:136:THR:O	2.49	0.46
2:C:414:PRO:O	2:C:418:ILE:HG13	2.15	0.46
2:C:544:ALA:HB2	2:C:580:ASP:CB	2.39	0.46
2:C:802:LEU:HD21	2:C:839:VAL:CB	2.43	0.46
2:C:805:LYS:HB3	2:C:835:THR:O	2.16	0.46
2:C:1067:ARG:HB2	3:D:421:ARG:HB2	1.91	0.46
3:D:882:GLN:HG3	3:D:883:ASP:CG	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1090:LYS:HD2	3:D:1097:ARG:CD	2.45	0.46
3:D:1090:LYS:CG	3:D:1097:ARG:HD3	2.44	0.46
3:D:1103:ASP:O	3:D:1105:VAL:HG13	2.16	0.46
3:D:1165:VAL:N	3:D:1181:ILE:O	2.36	0.46
7:O:6:DA:H1'	7:O:7:DC:H5'	1.98	0.46
8:P:10:DT:H2''	8:P:11:DA:C8	2.51	0.46
2:C:41:PHE:CE2	2:C:980:ALA:HB2	2.50	0.46
2:C:46:GLU:OE1	2:C:46:GLU:N	2.38	0.46
2:C:51:PRO:HD3	2:C:503:TYR:CD1	2.51	0.46
2:C:102:SER:O	2:C:142:ASN:N	2.48	0.46
2:C:224:VAL:HB	2:C:232:GLN:C	2.36	0.46
2:C:624:PRO:HA	2:C:718:ASN:ND2	2.29	0.46
2:C:1050:SER:O	5:F:441:ASP:CB	2.63	0.46
2:C:1075:ALA:O	2:C:1078:ALA:HB3	2.16	0.46
2:C:1117:ILE:HG23	2:C:1118:PRO:HD2	1.97	0.46
3:D:334:ARG:HH12	5:F:419:GLU:C	2.19	0.46
3:D:460:LEU:HD12	3:D:461:VAL:N	2.29	0.46
3:D:576:MET:SD	3:D:694:ALA:HB2	2.55	0.46
3:D:676:LEU:CD1	3:D:715:LYS:HB3	2.46	0.46
3:D:929:ALA:C	3:D:936:VAL:HG13	2.35	0.46
5:F:265:GLU:O	5:F:268:GLU:HG3	2.16	0.46
5:F:286:ARG:HB3	5:F:290:ARG:NH2	2.30	0.46
5:F:310:TYR:CD2	5:F:355:ILE:HG21	2.50	0.46
5:F:440:GLU:HB3	6:J:7:ARG:CB	2.45	0.46
7:O:4:DT:H1'	7:O:5:DG:H5'	1.96	0.46
7:O:12:DG:H2'	7:O:13:DT:H72	1.97	0.46
8:P:9:DT:H2'	8:P:10:DT:H71	1.97	0.46
1:A:40:ARG:HE	1:B:33:THR:CG2	2.25	0.46
2:C:38:ARG:CZ	2:C:971:ILE:HB	2.45	0.46
2:C:207:SER:N	2:C:308:LEU:HA	2.29	0.46
2:C:285:GLU:CD	2:C:286:PRO:HD2	2.35	0.46
2:C:386:GLN:HA	2:C:389:ILE:HD12	1.97	0.46
2:C:446:LEU:HB2	2:C:713:MET:CE	2.46	0.46
2:C:650:ILE:HG21	2:C:692:ALA:HA	1.98	0.46
2:C:650:ILE:CG1	2:C:694:ASP:HB2	2.44	0.46
2:C:1068:PHE:H	3:D:422:VAL:CG2	2.28	0.46
3:D:277:LEU:HB3	3:D:296:LEU:HD13	1.98	0.46
3:D:487:LEU:HA	3:D:490:VAL:HG22	1.97	0.46
3:D:589:THR:CB	3:D:688:MET:H	2.29	0.46
3:D:749:TYR:CG	3:D:781:ALA:HB2	2.50	0.46
3:D:975:CYS:SG	3:D:977:THR:OG1	2.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1029:PRO:O	3:D:1033:GLU:HG2	2.15	0.46
3:D:1158:VAL:HG22	3:D:1161:MET:SD	2.54	0.46
6:J:92:GLU:O	6:J:96:GLU:HG2	2.15	0.46
1:A:56:ILE:HG12	1:A:136:VAL:HA	1.97	0.46
2:C:241:LEU:HD11	2:C:335:GLU:CB	2.45	0.46
2:C:678:SER:OG	2:C:679:ASN:N	2.48	0.46
2:C:883:ASP:HB2	2:C:895:ILE:CD1	2.43	0.46
3:D:239:ASN:ND2	3:D:242:ARG:HH21	2.13	0.46
3:D:263:LYS:HD3	3:D:266:GLU:OE1	2.15	0.46
3:D:513:GLU:HB2	4:E:35:ILE:HG21	1.98	0.46
3:D:631:ALA:O	3:D:667:THR:HG22	2.16	0.46
3:D:905:ALA:HB3	3:D:909:THR:H	1.80	0.46
3:D:1223:ALA:HA	3:D:1226:PHE:CD2	2.51	0.46
5:F:338:THR:HG23	6:J:89:ARG:NH2	2.31	0.46
1:A:95:MET:CA	1:A:113:PRO:HD3	2.46	0.46
1:A:112:PRO:HB2	1:A:116:VAL:HG23	1.97	0.46
1:B:1:MET:CB	1:B:232:ILE:HA	2.42	0.46
1:B:104:GLU:CD	1:B:127:THR:HG22	2.36	0.46
2:C:180:VAL:CG2	2:C:379:ARG:HG3	2.46	0.46
2:C:403:ARG:CB	2:C:407:GLN:HG2	2.44	0.46
2:C:563:ARG:O	2:C:566:GLY:N	2.40	0.46
2:C:847:VAL:HG22	2:C:873:VAL:CG2	2.30	0.46
2:C:1045:SER:HB2	3:D:424:TYR:CE1	2.50	0.46
3:D:500:ARG:NH1	3:D:532:PHE:O	2.49	0.46
5:F:218:ASP:O	5:F:222:THR:HG23	2.15	0.46
5:F:306:LEU:O	5:F:309:ARG:HG2	2.15	0.46
5:F:480:GLY:O	5:F:484:GLY:N	2.44	0.46
6:J:33:ARG:HA	6:J:38:GLU:O	2.15	0.46
8:P:11:DA:H2''	8:P:12:DA:C8	2.51	0.46
1:A:40:ARG:NE	1:B:33:THR:HG22	2.25	0.46
1:A:172:LEU:HD23	1:A:199:LYS:CB	2.44	0.46
1:B:50:ALA:HB3	1:B:168:TYR:CE1	2.50	0.46
1:B:97:LEU:CD1	1:B:110:ILE:HA	2.44	0.46
2:C:68:PRO:HA	2:C:71:ARG:HB2	1.98	0.46
2:C:118:PRO:HG2	2:C:121:GLU:CB	2.45	0.46
2:C:476:HIS:CD2	2:C:478:SER:H	2.33	0.46
2:C:736:ILE:HD11	2:C:916:ILE:HD12	1.96	0.46
2:C:1002:VAL:HG13	2:C:1007:LYS:O	2.15	0.46
3:D:58:TRP:CD1	3:D:82:VAL:HG22	2.51	0.46
3:D:137:THR:N	3:D:253:THR:O	2.48	0.46
3:D:173:ARG:HG2	3:D:205:MET:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:195:ARG:CD	3:D:198:ARG:HD3	2.36	0.46
3:D:343:LEU:O	3:D:347:VAL:HG23	2.16	0.46
3:D:391:VAL:N	3:D:399:LEU:HD12	2.30	0.46
3:D:497:LEU:O	3:D:543:VAL:HG13	2.16	0.46
3:D:497:LEU:C	3:D:498:LEU:HD12	2.36	0.46
3:D:895:ARG:NH1	3:D:967:THR:HG22	2.30	0.46
3:D:1045:PRO:CB	3:D:1111:LEU:HD22	2.43	0.46
3:D:1081:SER:O	3:D:1084:GLN:HB2	2.16	0.46
3:D:1182:ASP:HB3	3:D:1185:GLU:HB3	1.96	0.46
1:B:55:ARG:O	1:B:136:VAL:HG13	2.15	0.46
1:B:78:LEU:HD13	3:D:636:ARG:NH2	2.31	0.46
1:B:146:TYR:HB2	3:D:620:MET:HE1	1.98	0.46
2:C:463:LEU:CD1	2:C:468:ALA:HB2	2.43	0.46
2:C:465:ARG:HH22	2:C:492:PRO:HG2	1.81	0.46
2:C:540:VAL:HG22	2:C:576:VAL:HA	1.98	0.46
2:C:795:GLU:HA	2:C:846:LYS:HD3	1.98	0.46
2:C:1041:ILE:CD1	3:D:520:LYS:HB3	2.45	0.46
2:C:1044:ARG:NH2	2:C:1048:PRO:HD2	2.31	0.46
3:D:56:ARG:HB3	3:D:59:GLU:OE1	2.16	0.46
3:D:640:LEU:HD11	3:D:675:GLU:HG2	1.98	0.46
3:D:1049:VAL:HA	3:D:1107:VAL:HG22	1.96	0.46
4:E:33:LEU:O	4:E:33:LEU:HD12	2.16	0.46
1:B:53:SER:O	1:B:139:VAL:HB	2.16	0.45
1:B:108:GLY:HA2	1:B:121:PRO:HB3	1.97	0.45
2:C:673:ARG:HB2	2:C:686:GLN:NE2	2.31	0.45
3:D:921:TYR:CE1	3:D:949:ILE:HG13	2.48	0.45
3:D:927:THR:HG23	3:D:961:LYS:HB3	1.96	0.45
3:D:1152:LYS:O	3:D:1156:VAL:HG23	2.16	0.45
3:D:1234:THR:HG23	3:D:1235:ASP:H	1.82	0.45
4:E:98:GLU:O	4:E:101:ALA:HB3	2.16	0.45
5:F:251:LYS:HE2	5:F:337:TYR:CE2	2.51	0.45
5:F:302:LEU:HA	5:F:305:SER:OG	2.16	0.45
7:O:6:DA:H1'	7:O:7:DC:O5'	2.16	0.45
1:A:14:LEU:HD11	1:A:20:GLN:CG	2.44	0.45
1:A:182:ARG:HA	1:A:188:ASP:CB	2.44	0.45
1:B:14:LEU:HD12	1:B:18:ARG:O	2.16	0.45
2:C:584:ARG:HH12	2:C:976:VAL:H	1.63	0.45
2:C:668:ARG:HD3	2:C:670:TYR:OH	2.16	0.45
2:C:672:MET:HE3	2:C:688:PRO:HB3	1.97	0.45
2:C:875:GLN:HE21	2:C:877:ARG:HE	1.63	0.45
3:D:62:CYS:SG	3:D:77:ARG:NH2	2.89	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:310:MET:O	3:D:313:VAL:HG22	2.16	0.45
3:D:590:THR:CG2	3:D:630:ARG:HH11	2.29	0.45
3:D:886:VAL:HG22	3:D:974:VAL:HG23	1.98	0.45
3:D:948:GLU:OE1	3:D:948:GLU:N	2.31	0.45
3:D:1208:MET:HE3	3:D:1213:ALA:HB1	1.98	0.45
3:D:1277:GLU:O	3:D:1280:ALA:HB3	2.17	0.45
5:F:334:LYS:HD3	5:F:350:TRP:HZ2	1.77	0.45
1:A:6:ARG:NH2	1:B:217:GLU:O	2.49	0.45
1:A:177:LYS:HE2	1:A:193:ILE:HG21	1.98	0.45
1:B:30:PHE:O	1:B:34:LEU:HG	2.17	0.45
1:B:47:PRO:HG3	1:B:144:ARG:NH2	2.31	0.45
1:B:56:ILE:HG12	1:B:136:VAL:HG22	1.99	0.45
2:C:105:LEU:HB2	2:C:139:PHE:HD1	1.82	0.45
2:C:1044:ARG:HH21	2:C:1047:GLY:CA	2.29	0.45
2:C:1067:ARG:CA	3:D:421:ARG:HA	2.47	0.45
3:D:426:GLY:HA3	3:D:447:MET:CE	2.46	0.45
3:D:642:PRO:CD	3:D:657:GLN:NE2	2.80	0.45
3:D:751:GLU:O	3:D:755:LYS:HE2	2.17	0.45
3:D:1210:ILE:HG13	3:D:1211:THR:N	2.32	0.45
5:F:330:ARG:HH22	7:O:24:DG:H3'	1.81	0.45
1:A:137:GLU:C	1:A:138:LEU:HD12	2.36	0.45
1:B:214:THR:O	1:B:217:GLU:HB2	2.17	0.45
2:C:48:LEU:HD12	2:C:49:GLU:H	1.82	0.45
2:C:608:GLY:CA	2:C:611:MET:HE3	2.39	0.45
2:C:626:VAL:HA	2:C:972:VAL:O	2.17	0.45
2:C:647:SER:H	2:C:698:ALA:HB2	1.80	0.45
2:C:650:ILE:HG22	2:C:692:ALA:HA	1.97	0.45
2:C:784:LEU:HD23	2:C:788:GLY:O	2.15	0.45
2:C:851:ARG:HB3	2:C:870:ARG:HB2	1.98	0.45
2:C:961:ASP:O	2:C:962:GLU:HG3	2.15	0.45
2:C:1007:LYS:HE3	2:C:1022:PRO:HG2	1.97	0.45
2:C:1053:THR:OG1	2:C:1055:GLN:HG3	2.15	0.45
3:D:336:ALA:HB1	5:F:423:LEU:CD1	2.43	0.45
3:D:592:VAL:HG23	3:D:630:ARG:CB	2.46	0.45
3:D:752:ARG:O	3:D:756:VAL:HG23	2.16	0.45
3:D:938:VAL:HG13	3:D:942:GLN:OE1	2.17	0.45
5:F:511:MET:HB3	5:F:515:ARG:HH22	1.80	0.45
7:O:8:DA:H2''	7:O:9:DA:C8	2.50	0.45
1:A:32:TYR:HB2	2:C:1017:GLU:OE2	2.17	0.45
1:A:79:ASN:O	1:A:82:SER:HB3	2.17	0.45
1:A:221:LEU:O	1:A:225:LEU:HD13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:55:ARG:HB3	1:B:161:ARG:CA	2.47	0.45
2:C:401:ARG:O	2:C:404:MET:HB3	2.16	0.45
2:C:447:SER:CB	2:C:613:ARG:HB2	2.46	0.45
2:C:559:VAL:HG12	2:C:560:LEU:O	2.17	0.45
2:C:598:GLU:OE1	2:C:598:GLU:N	2.31	0.45
2:C:689:ILE:CD1	2:C:701:VAL:HG12	2.47	0.45
2:C:756:GLU:CG	2:C:870:ARG:HG2	2.47	0.45
2:C:767:GLU:HB3	2:C:805:LYS:CE	2.40	0.45
2:C:845:GLY:HA3	2:C:874:ALA:O	2.17	0.45
2:C:1010:LEU:O	2:C:1018:PRO:HA	2.16	0.45
2:C:1050:SER:HB3	2:C:1053:THR:O	2.16	0.45
3:D:219:LEU:O	3:D:222:ILE:HG22	2.16	0.45
3:D:239:ASN:ND2	3:D:243:GLU:OE2	2.50	0.45
3:D:441:CYS:HB3	3:D:512:PHE:HB3	1.98	0.45
3:D:499:ASN:HD22	3:D:500:ARG:N	2.14	0.45
3:D:633:ILE:O	3:D:665:GLU:HA	2.15	0.45
3:D:890:ASP:HB2	3:D:977:THR:HG21	1.97	0.45
5:F:409:LYS:O	5:F:413:ILE:HG13	2.17	0.45
5:F:415:GLN:N	5:F:418:ARG:HD2	2.31	0.45
5:F:470:ARG:O	5:F:474:VAL:HG23	2.16	0.45
8:P:14:DA:H1'	8:P:15:DC:C5'	2.47	0.45
1:B:41:THR:O	1:B:44:SER:N	2.49	0.45
1:B:81:LYS:NZ	3:D:613:SER:H	2.14	0.45
1:B:193:ILE:O	1:B:194:LEU:HD23	2.17	0.45
2:C:119:VAL:HG13	2:C:167:ILE:HD12	1.98	0.45
2:C:182:SER:HB3	2:C:377:ARG:HD2	1.98	0.45
2:C:523:VAL:HA	2:C:552:GLY:O	2.17	0.45
2:C:654:SER:HG	2:C:657:TYR:H	1.59	0.45
2:C:687:CYS:O	2:C:703:ALA:HB1	2.16	0.45
2:C:725:PRO:CA	2:C:730:ASN:HD21	2.27	0.45
2:C:762:THR:CG2	2:C:764:LEU:HB2	2.46	0.45
3:D:131:PHE:HD1	3:D:256:MET:HG2	1.82	0.45
3:D:184:LEU:O	3:D:194:ARG:HD3	2.16	0.45
3:D:248:TYR:O	3:D:251:TYR:HB2	2.17	0.45
3:D:457:MET:HE1	3:D:473:LYS:HB2	1.97	0.45
3:D:468:ASN:HD21	3:D:470:LYS:HB3	1.82	0.45
3:D:579:LEU:CD2	3:D:808:THR:HB	2.46	0.45
3:D:621:ALA:O	3:D:626:VAL:HB	2.16	0.45
3:D:847:LEU:H	3:D:847:LEU:HD12	1.80	0.45
3:D:947:PRO:HD2	3:D:948:GLU:OE1	2.16	0.45
3:D:1066:ILE:CD1	3:D:1075:VAL:HB	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1262:THR:HB	4:E:55:ILE:HD11	1.99	0.45
6:J:28:GLN:O	6:J:43:PRO:HA	2.16	0.45
1:A:97:LEU:C	1:A:98:ARG:HD3	2.37	0.45
1:A:137:GLU:OE2	1:A:161:ARG:NH1	2.50	0.45
2:C:280:LYS:HB2	2:C:280:LYS:HZ2	1.81	0.45
2:C:1090:THR:OG1	2:C:1115:PRO:HB3	2.16	0.45
3:D:24:SER:HA	3:D:92:MET:O	2.16	0.45
3:D:441:CYS:HB3	3:D:512:PHE:CB	2.46	0.45
3:D:581:MET:O	3:D:585:LEU:HG	2.17	0.45
3:D:705:PRO:HB2	4:E:41:ASP:OD2	2.17	0.45
3:D:1032:GLN:O	3:D:1036:GLU:HG2	2.17	0.45
3:D:1045:PRO:HD2	3:D:1112:MET:CG	2.47	0.45
4:E:81:PRO:O	4:E:82:LEU:HD23	2.17	0.45
5:F:302:LEU:N	7:O:31:DT:H1'	2.32	0.45
5:F:309:ARG:NH2	5:F:352:ARG:HD3	2.31	0.45
5:F:310:TYR:CB	5:F:313:ARG:HH21	2.30	0.45
5:F:369:PRO:O	5:F:373:VAL:HG23	2.16	0.45
6:J:97:LEU:HG	6:J:100:GLU:OE1	2.16	0.45
2:C:113:ASP:HB2	2:C:132:PRO:CD	2.46	0.45
2:C:206:PRO:CB	2:C:308:LEU:HB3	2.47	0.45
2:C:442:GLN:O	2:C:442:GLN:HG3	2.17	0.45
2:C:455:LEU:HG	2:C:499:SER:HA	1.98	0.45
2:C:505:ARG:O	2:C:513:GLU:N	2.50	0.45
2:C:818:GLU:O	2:C:822:ARG:HG2	2.16	0.45
2:C:821:LEU:O	2:C:825:PHE:HB2	2.17	0.45
2:C:922:VAL:HG22	2:C:930:GLN:NE2	2.32	0.45
2:C:929:GLY:HA2	2:C:932:LEU:HD12	1.98	0.45
2:C:1050:SER:CB	2:C:1053:THR:HG23	2.46	0.45
3:D:108:LYS:HE2	3:D:386:ARG:O	2.17	0.45
3:D:886:VAL:HA	3:D:974:VAL:HG23	1.97	0.45
3:D:1045:PRO:HB2	3:D:1111:LEU:CB	2.43	0.45
5:F:258:TYR:CD1	6:J:94:LEU:HB3	2.52	0.45
5:F:348:THR:HG22	5:F:352:ARG:HE	1.82	0.45
1:A:95:MET:SD	1:A:110:ILE:HG21	2.57	0.45
1:A:107:ALA:CB	1:A:121:PRO:HA	2.44	0.45
2:C:182:SER:HB2	2:C:183:PRO:HD2	1.98	0.45
2:C:313:ARG:HB2	2:C:328:ILE:CG2	2.47	0.45
2:C:335:GLU:O	2:C:339:VAL:HG22	2.16	0.45
2:C:414:PRO:HA	2:C:417:LEU:HD12	1.98	0.45
2:C:520:VAL:HG12	2:C:521:ASP:CG	2.38	0.45
2:C:707:CYS:HB3	2:C:715:LEU:CD2	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1104:GLU:OE2	2:C:1108:LYS:NZ	2.32	0.45
2:C:1118:PRO:HG2	2:C:1121:PHE:HB2	1.98	0.45
3:D:27:GLU:HG3	3:D:95:ILE:HA	1.99	0.45
3:D:48:CYS:SG	3:D:50:LYS:HB3	2.57	0.45
3:D:110:VAL:HA	3:D:111:PRO:HA	1.84	0.45
3:D:136:ILE:HD11	3:D:229:LEU:HD11	1.98	0.45
3:D:912:ARG:HH21	3:D:953:LEU:CD2	2.29	0.45
3:D:913:ASP:HB3	3:D:916:ILE:CD1	2.46	0.45
3:D:1053:VAL:HG12	3:D:1103:ASP:H	1.82	0.45
3:D:1065:THR:HG23	3:D:1076:VAL:CA	2.46	0.45
5:F:261:GLN:HG2	6:J:82:TRP:CZ2	2.52	0.45
8:P:5:DC:H2''	8:P:6:DA:C8	2.51	0.45
8:P:17:DT:C2'	8:P:18:DT:H71	2.47	0.45
1:A:146:TYR:HA	1:A:166:SER:O	2.17	0.45
1:B:19:SER:HB2	1:B:204:PRO:CG	2.46	0.45
1:B:56:ILE:HG12	1:B:136:VAL:CG1	2.46	0.45
2:C:113:ASP:HB2	2:C:132:PRO:CB	2.47	0.45
2:C:230:ARG:HH22	5:F:215:ALA:N	2.15	0.45
2:C:799:GLY:H	2:C:839:VAL:HG13	1.82	0.45
2:C:1133:LEU:C	3:D:15:ALA:HB2	2.36	0.45
3:D:8:ASP:C	3:D:1245:LEU:HD12	2.37	0.45
3:D:295:ARG:O	3:D:298:VAL:HG22	2.17	0.45
3:D:322:PRO:HA	3:D:325:ARG:HG2	1.98	0.45
3:D:348:ILE:HG22	3:D:352:ASN:ND2	2.32	0.45
3:D:441:CYS:HB3	3:D:512:PHE:CD2	2.52	0.45
3:D:474:ARG:O	3:D:477:GLU:HB2	2.17	0.45
3:D:775:VAL:HG12	3:D:779:LYS:HE3	1.99	0.45
3:D:815:ARG:HH12	3:D:821:LYS:C	2.20	0.45
3:D:896:GLY:O	3:D:961:LYS:HE3	2.16	0.45
3:D:1167:ILE:O	3:D:1177:PRO:HA	2.17	0.45
3:D:1168:ILE:HG13	3:D:1202:ALA:HB3	1.98	0.45
3:D:1254:ILE:CD1	3:D:1256:LYS:HB3	2.47	0.45
5:F:233:LYS:O	5:F:237:LYS:HE3	2.17	0.45
1:A:26:LEU:HB2	1:A:190:ASP:CA	2.47	0.44
1:B:224:GLU:O	1:B:225:LEU:HD23	2.16	0.44
2:C:352:GLN:CB	2:C:365:VAL:HG21	2.45	0.44
2:C:1072:GLU:OE1	2:C:1072:GLU:N	2.50	0.44
3:D:34:ILE:HA	3:D:40:LYS:O	2.17	0.44
3:D:56:ARG:HA	6:J:13:ALA:O	2.16	0.44
3:D:71:LYS:O	3:D:73:ILE:HG12	2.17	0.44
3:D:360:LEU:CD2	5:F:329:ILE:HG21	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:406:LEU:HB2	3:D:409:LYS:CB	2.44	0.44
3:D:775:VAL:O	3:D:779:LYS:HG3	2.17	0.44
3:D:872:TYR:OH	3:D:876:ARG:NH1	2.46	0.44
3:D:925:LEU:HD12	3:D:938:VAL:HG12	1.99	0.44
3:D:981:ARG:HD3	3:D:986:GLY:HA2	1.99	0.44
3:D:1047:ALA:HB3	3:D:1109:GLN:H	1.82	0.44
1:A:61:HIS:CD2	1:A:63:PHE:H	2.35	0.44
1:A:128:LEU:HD23	1:A:132:GLY:CA	2.47	0.44
2:C:189:GLU:HB3	2:C:200:HIS:HA	1.98	0.44
2:C:423:VAL:O	2:C:427:ILE:HG13	2.17	0.44
2:C:1082:ALA:CB	3:D:1258:ILE:HG12	2.47	0.44
2:C:1094:ASP:HB3	2:C:1119:GLU:HB3	2.00	0.44
3:D:384:ASN:HD22	3:D:399:LEU:HD13	1.83	0.44
3:D:406:LEU:HB2	3:D:409:LYS:CD	2.45	0.44
5:F:309:ARG:HH21	5:F:352:ARG:HD3	1.83	0.44
5:F:356:THR:O	5:F:359:MET:HB2	2.17	0.44
5:F:371:HIS:HE1	7:O:21:DT:H2'	1.82	0.44
6:J:108:ARG:HD2	6:J:109:ARG:N	2.25	0.44
2:C:109:ASP:OD2	2:C:111:ARG:HB3	2.17	0.44
2:C:230:ARG:HH22	5:F:215:ALA:H	1.65	0.44
2:C:343:GLU:O	2:C:347:ARG:HG3	2.17	0.44
2:C:407:GLN:HG3	2:C:417:LEU:HD23	1.99	0.44
2:C:560:LEU:HD22	2:C:568:VAL:HG12	1.98	0.44
2:C:905:PRO:O	2:C:913:VAL:HG13	2.18	0.44
2:C:1110:GLU:HG2	4:E:69:ASN:OD1	2.18	0.44
3:D:35:ASN:ND2	3:D:38:THR:HG22	2.32	0.44
3:D:114:LEU:HD23	3:D:312:MET:HE1	1.99	0.44
3:D:319:VAL:HG22	3:D:344:TYR:CE1	2.53	0.44
3:D:367:VAL:O	3:D:371:LYS:HG3	2.17	0.44
3:D:383:ASP:HA	3:D:401:SER:CB	2.47	0.44
3:D:433:GLY:HA3	3:D:436:LEU:HD12	1.98	0.44
3:D:692:VAL:O	3:D:696:ILE:HG13	2.17	0.44
3:D:1181:ILE:HB	3:D:1185:GLU:CD	2.38	0.44
5:F:293:ASN:O	5:F:297:GLU:HG3	2.17	0.44
5:F:415:GLN:HG2	5:F:418:ARG:HD2	1.99	0.44
6:J:90:SER:H	6:J:93:GLU:CD	2.21	0.44
7:O:25:DC:H2''	7:O:26:DT:H71	1.99	0.44
7:O:30:DC:H6	7:O:30:DC:H2'	1.65	0.44
8:P:25:DG:H2''	8:P:26:DC:C6	2.53	0.44
1:A:6:ARG:HB2	1:A:7:PRO:HD2	1.98	0.44
1:A:186:ARG:NH1	1:B:148:PRO:HB2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:84:VAL:HG22	1:B:119:HIS:HD2	1.80	0.44
2:C:117:ALA:HB1	2:C:118:PRO:HD2	1.99	0.44
2:C:224:VAL:O	2:C:224:VAL:HG12	2.18	0.44
2:C:348:LEU:HD12	2:C:365:VAL:HG12	1.99	0.44
2:C:425:ALA:O	2:C:429:GLU:HG3	2.17	0.44
2:C:455:LEU:O	2:C:497:ILE:HG23	2.17	0.44
2:C:1051:MET:HE3	6:J:8:GLY:O	2.18	0.44
2:C:1057:LEU:HD23	2:C:1062:GLN:CG	2.47	0.44
3:D:412:ARG:CA	3:D:1227:GLN:HG3	2.48	0.44
3:D:480:ARG:HB3	3:D:482:GLN:NE2	2.32	0.44
3:D:622:ALA:HB2	3:D:627:LEU:HB2	1.99	0.44
3:D:648:ALA:O	3:D:652:GLY:N	2.50	0.44
3:D:1050:THR:N	3:D:1107:VAL:HG22	2.32	0.44
3:D:1208:MET:HG3	3:D:1213:ALA:CB	2.41	0.44
4:E:89:GLU:HG2	4:E:93:SER:HB3	1.99	0.44
5:F:315:MET:HE1	5:F:362:GLN:HB2	1.99	0.44
5:F:415:GLN:HB3	5:F:418:ARG:HD3	1.96	0.44
6:J:33:ARG:CZ	6:J:37:GLY:HA2	2.48	0.44
8:P:17:DT:H2'	8:P:18:DT:OP2	2.18	0.44
2:C:244:THR:O	2:C:248:ILE:HG13	2.18	0.44
2:C:308:LEU:HD21	2:C:313:ARG:CD	2.47	0.44
2:C:354:THR:CA	2:C:365:VAL:HG23	2.47	0.44
2:C:647:SER:CA	2:C:697:GLU:HA	2.46	0.44
2:C:792:ILE:CD1	2:C:850:ILE:HD12	2.48	0.44
2:C:902:GLU:HG2	2:C:903:ASP:N	2.32	0.44
3:D:5:ASN:O	3:D:5:ASN:ND2	2.50	0.44
3:D:468:ASN:ND2	5:F:525:ASP:HB3	2.33	0.44
3:D:485:ASP:O	3:D:488:GLU:HB3	2.18	0.44
3:D:496:VAL:O	3:D:497:LEU:HD23	2.17	0.44
3:D:662:TRP:HZ3	3:D:664:ALA:HB2	1.79	0.44
3:D:1207:LEU:HD22	3:D:1208:MET:N	2.27	0.44
5:F:252:ARG:NE	5:F:287:ASP:OD2	2.47	0.44
5:F:309:ARG:HG3	5:F:310:TYR:CD1	2.52	0.44
5:F:332:VAL:HB	5:F:343:PHE:HZ	1.82	0.44
5:F:479:PHE:C	5:F:486:PRO:HG3	2.37	0.44
8:P:9:DT:C2'	8:P:10:DT:H71	2.47	0.44
1:A:51:VAL:HA	1:A:140:VAL:HA	1.98	0.44
1:A:128:LEU:HD23	1:A:132:GLY:C	2.38	0.44
1:B:15:THR:HG22	1:B:18:ARG:HB3	2.00	0.44
1:B:95:MET:HE2	1:B:138:LEU:O	2.17	0.44
1:B:95:MET:HE3	1:B:140:VAL:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:213:LYS:O	1:B:217:GLU:HG3	2.17	0.44
2:C:97:GLU:OE2	2:C:142:ASN:ND2	2.50	0.44
2:C:103:MET:HA	2:C:141:ASN:HA	2.00	0.44
2:C:217:ASP:HB2	2:C:221:THR:OG1	2.18	0.44
2:C:280:LYS:C	2:C:283:PRO:HD3	2.37	0.44
2:C:308:LEU:HD21	2:C:313:ARG:HD3	1.99	0.44
2:C:338:VAL:O	2:C:342:ILE:HG13	2.18	0.44
2:C:1049:TYR:CG	2:C:1056:PRO:HG3	2.53	0.44
2:C:1131:LEU:HD21	3:D:402:LEU:CB	2.48	0.44
3:D:131:PHE:HA	3:D:256:MET:SD	2.58	0.44
3:D:144:ARG:NH1	3:D:229:LEU:HB3	2.32	0.44
3:D:263:LYS:O	3:D:266:GLU:HB2	2.18	0.44
3:D:453:LYS:HA	3:D:456:VAL:HG12	1.99	0.44
3:D:484:TRP:O	3:D:487:LEU:HB3	2.17	0.44
3:D:637:LEU:HB2	3:D:662:TRP:CE2	2.51	0.44
3:D:789:LEU:CD2	3:D:815:ARG:HA	2.48	0.44
3:D:1169:ASP:N	3:D:1202:ALA:HB3	2.32	0.44
3:D:1183:ARG:O	3:D:1187:GLU:HG3	2.18	0.44
5:F:240:LEU:HD22	7:O:31:DT:C4	2.52	0.44
5:F:249:LEU:HD22	5:F:291:ALA:CB	2.42	0.44
6:J:4:ARG:HD3	6:J:5:VAL:O	2.17	0.44
2:C:40:SER:HA	2:C:973:SER:O	2.18	0.44
2:C:113:ASP:HB2	2:C:132:PRO:CG	2.48	0.44
2:C:455:LEU:O	2:C:497:ILE:HA	2.17	0.44
2:C:543:GLN:O	2:C:546:SER:OG	2.25	0.44
2:C:544:ALA:CB	2:C:580:ASP:HB2	2.39	0.44
2:C:884:LYS:O	2:C:1033:LEU:HD13	2.18	0.44
3:D:69:ARG:CA	6:J:20:ARG:HH22	2.31	0.44
3:D:148:LEU:O	3:D:152:GLU:HG2	2.18	0.44
3:D:305:SER:HB2	3:D:307:ASN:ND2	2.31	0.44
3:D:765:LEU:HD12	3:D:770:ARG:N	2.33	0.44
3:D:898:VAL:HG12	3:D:961:LYS:CA	2.47	0.44
3:D:1050:THR:HG22	3:D:1106:GLU:CA	2.33	0.44
3:D:1123:ARG:HG3	3:D:1204:ARG:HH22	1.82	0.44
3:D:1165:VAL:HA	3:D:1206:VAL:HG22	1.99	0.44
5:F:334:LYS:HZ1	7:O:25:DC:H3'	1.81	0.44
6:J:32:TYR:CD2	6:J:54:TRP:HB3	2.52	0.44
8:P:15:DC:H1'	8:P:16:DT:H5'	1.99	0.44
1:A:9:LEU:HD13	1:B:221:LEU:O	2.17	0.44
1:A:95:MET:CG	1:A:138:LEU:HB2	2.48	0.44
1:B:96:TYR:O	1:B:111:VAL:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:96:TYR:CE1	1:B:137:GLU:HG2	2.52	0.44
2:C:40:SER:OG	2:C:975:PRO:HD3	2.18	0.44
2:C:41:PHE:CE1	2:C:963:LEU:HD13	2.53	0.44
2:C:64:LEU:CD1	2:C:385:ILE:HB	2.48	0.44
3:D:36:TYR:CD2	3:D:37:ARG:HB2	2.52	0.44
3:D:71:LYS:CA	3:D:82:VAL:HG13	2.40	0.44
3:D:285:LYS:O	3:D:288:LYS:HB3	2.18	0.44
3:D:327:MET:HA	3:D:336:ALA:O	2.18	0.44
3:D:383:ASP:HB2	3:D:403:SER:OG	2.18	0.44
3:D:447:MET:O	3:D:451:LEU:HD23	2.18	0.44
3:D:631:ALA:C	3:D:667:THR:HG22	2.38	0.44
3:D:767:HIS:CE1	3:D:771:ASN:HD21	2.35	0.44
3:D:1190:ASN:O	3:D:1193:VAL:HG12	2.17	0.44
3:D:1195:ALA:O	3:D:1196:GLU:HB2	2.17	0.44
5:F:342:LYS:CG	7:O:29:DA:H3'	2.48	0.44
8:P:7:DA:H2'	8:P:8:DT:H71	2.00	0.44
1:A:95:MET:SD	1:A:138:LEU:HD22	2.57	0.44
1:B:8:THR:N	1:B:24:GLU:O	2.47	0.44
1:B:107:ALA:HB3	1:B:121:PRO:C	2.38	0.44
2:C:102:SER:C	2:C:142:ASN:HB2	2.39	0.44
2:C:140:ILE:HD11	2:C:147:ILE:HG22	2.00	0.44
2:C:147:ILE:O	2:C:147:ILE:HG13	2.18	0.44
2:C:245:SER:CB	2:C:262:LEU:HD21	2.38	0.44
2:C:274:LEU:HD12	2:C:292:ALA:HB1	2.00	0.44
2:C:317:ASN:ND2	2:C:323:HIS:HB2	2.33	0.44
2:C:395:ARG:HA	2:C:398:ARG:NE	2.30	0.44
2:C:633:ARG:O	2:C:636:ILE:HG12	2.17	0.44
2:C:802:LEU:HB2	2:C:837:LEU:HG	2.00	0.44
2:C:906:PHE:CD2	2:C:910:GLY:HA2	2.53	0.44
3:D:590:THR:HB	3:D:687:GLN:NE2	2.32	0.44
3:D:605:ASP:OD1	3:D:605:ASP:N	2.51	0.44
3:D:895:ARG:NH2	3:D:967:THR:HA	2.33	0.44
3:D:923:ARG:C	3:D:944:LEU:HD12	2.39	0.44
3:D:931:ASP:O	3:D:934:GLY:N	2.50	0.44
4:E:60:ARG:NH1	4:E:64:ILE:HG13	2.33	0.44
5:F:280:ASP:O	5:F:284:ILE:HG12	2.16	0.44
1:A:144:ARG:HD2	1:B:1:MET:HE3	2.00	0.43
1:A:177:LYS:HE3	1:A:193:ILE:HD13	2.00	0.43
2:C:505:ARG:HG2	2:C:506:VAL:N	2.33	0.43
3:D:173:ARG:HG2	3:D:205:MET:N	2.32	0.43
3:D:212:ALA:HA	3:D:215:GLU:OE2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:328:VAL:HG12	3:D:336:ALA:HB3	1.98	0.43
3:D:328:VAL:HG22	3:D:329:GLN:H	1.83	0.43
3:D:443:LEU:HD21	3:D:448:ALA:CB	2.37	0.43
3:D:642:PRO:HB2	3:D:643:PRO:HD2	1.99	0.43
3:D:693:GLN:O	3:D:697:ILE:HG13	2.18	0.43
3:D:929:ALA:O	3:D:937:ILE:HG22	2.18	0.43
3:D:1160:GLN:O	3:D:1163:ARG:HG2	2.18	0.43
3:D:1172:SER:H	3:D:1199:GLU:HG3	1.83	0.43
5:F:278:ARG:O	5:F:281:MET:HG2	2.18	0.43
5:F:300:LEU:HA	5:F:303:VAL:CG2	2.48	0.43
5:F:351:ILE:O	5:F:355:ILE:HG13	2.17	0.43
5:F:405:ILE:HD12	5:F:409:LYS:HG3	2.00	0.43
7:O:1:DG:H2''	7:O:2:DC:C5'	2.47	0.43
7:O:12:DG:H2''	7:O:13:DT:H5'	2.00	0.43
8:P:21:DT:OP1	8:P:21:DT:H3'	2.18	0.43
1:A:172:LEU:HD12	1:A:197:GLU:CD	2.37	0.43
1:A:173:LYS:HG2	1:A:174:VAL:N	2.33	0.43
1:B:99:LYS:O	1:B:133:LYS:HA	2.18	0.43
2:C:158:PRO:HG2	2:C:431:PHE:CZ	2.53	0.43
2:C:519:VAL:HG23	2:C:523:VAL:C	2.39	0.43
2:C:833:ARG:NH1	2:C:835:THR:HG22	2.33	0.43
3:D:70:PHE:CA	3:D:73:ILE:HD11	2.47	0.43
3:D:73:ILE:HG23	6:J:27:ARG:HH11	1.83	0.43
3:D:425:SER:HA	3:D:543:VAL:O	2.18	0.43
3:D:457:MET:CE	3:D:473:LYS:HB2	2.48	0.43
3:D:515:MET:O	3:D:517:VAL:HG23	2.19	0.43
3:D:1065:THR:CG2	3:D:1076:VAL:HG22	2.48	0.43
3:D:1266:ARG:HA	4:E:109:GLY:C	2.38	0.43
4:E:60:ARG:O	4:E:63:GLN:HB2	2.18	0.43
5:F:342:LYS:H	7:O:29:DA:P	2.35	0.43
1:B:75:GLU:OE2	1:B:78:LEU:HD11	2.18	0.43
2:C:238:LEU:O	2:C:243:TRP:N	2.51	0.43
2:C:760:ARG:N	2:C:767:GLU:OE1	2.47	0.43
2:C:922:VAL:HG13	2:C:927:ASN:OD1	2.18	0.43
2:C:993:LEU:HA	2:C:994:PRO:HD3	1.93	0.43
2:C:1087:GLU:O	2:C:1091:ILE:HG12	2.18	0.43
3:D:797:ASN:HD22	3:D:798:PRO:HD2	1.82	0.43
3:D:900:GLU:O	3:D:958:THR:HB	2.18	0.43
3:D:912:ARG:HH21	3:D:953:LEU:HD22	1.82	0.43
3:D:931:ASP:OD1	3:D:932:GLU:HG3	2.17	0.43
3:D:1059:GLU:C	3:D:1060:ARG:HD3	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:445:VAL:CG1	5:F:447:ALA:H	2.30	0.43
6:J:31:ARG:O	6:J:65:ILE:HB	2.19	0.43
1:A:26:LEU:HD12	1:A:191:LYS:N	2.33	0.43
1:A:45:SER:HB3	1:B:232:ILE:HD12	2.00	0.43
1:A:152:ASN:OD1	1:A:157:ALA:HB3	2.18	0.43
2:C:381:VAL:HG13	2:C:382:GLY:N	2.33	0.43
2:C:401:ARG:HA	2:C:404:MET:CB	2.47	0.43
2:C:1049:TYR:CA	2:C:1056:PRO:HA	2.47	0.43
3:D:397:ARG:CG	3:D:398:PRO:HD2	2.48	0.43
3:D:512:PHE:CE1	3:D:561:SER:HB2	2.53	0.43
3:D:633:ILE:HG12	3:D:666:THR:O	2.19	0.43
3:D:1052:ARG:HA	3:D:1103:ASP:O	2.18	0.43
3:D:1175:PHE:C	3:D:1176:LEU:HD12	2.39	0.43
3:D:1183:ARG:HG2	3:D:1187:GLU:OE2	2.18	0.43
3:D:1186:PHE:O	3:D:1190:ASN:ND2	2.51	0.43
3:D:1248:LEU:HA	3:D:1259:PRO:CD	2.48	0.43
3:D:1276:GLU:HA	3:D:1279:ARG:HB2	1.99	0.43
5:F:480:GLY:HA2	5:F:483:ASP:OD1	2.18	0.43
7:O:16:DT:H2''	7:O:17:DA:C8	2.54	0.43
2:C:89:VAL:O	2:C:92:GLU:HG2	2.18	0.43
2:C:175:VAL:HA	2:C:436:LEU:O	2.18	0.43
2:C:473:ARG:NH1	2:C:496:LEU:HG	2.33	0.43
2:C:926:MET:HE3	3:D:840:PHE:CD2	2.54	0.43
2:C:1074:TRP:CZ2	3:D:878:VAL:HB	2.53	0.43
3:D:58:TRP:N	3:D:83:THR:O	2.49	0.43
3:D:118:LEU:O	3:D:232:LYS:HE2	2.18	0.43
3:D:334:ARG:HG2	3:D:334:ARG:HH11	1.83	0.43
3:D:557:ILE:HD13	4:E:53:LEU:HD12	2.00	0.43
3:D:887:ARG:NH1	3:D:972:THR:HB	2.33	0.43
4:E:60:ARG:HH22	4:E:80:GLY:HA3	1.82	0.43
5:F:487:ARG:HB3	5:F:491:GLU:CB	2.43	0.43
8:P:7:DA:H2''	8:P:8:DT:OP2	2.19	0.43
8:P:15:DC:H1'	8:P:16:DT:O5'	2.17	0.43
8:P:21:DT:H1'	8:P:22:DC:C5'	2.46	0.43
8:P:25:DG:H2''	8:P:26:DC:OP2	2.18	0.43
1:A:57:ASP:OD1	1:A:58:GLY:N	2.51	0.43
1:B:8:THR:O	1:B:23:ILE:HG23	2.17	0.43
1:B:9:LEU:HA	1:B:23:ILE:HG12	2.01	0.43
2:C:115:VAL:HG12	2:C:159:MET:HG3	1.99	0.43
2:C:308:LEU:O	2:C:331:SER:HB2	2.19	0.43
2:C:442:GLN:HE21	2:C:679:ASN:N	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:540:VAL:CG2	2:C:576:VAL:HG22	2.48	0.43
2:C:736:ILE:CD1	2:C:916:ILE:HD12	2.48	0.43
2:C:760:ARG:HB2	2:C:767:GLU:CD	2.39	0.43
2:C:1049:TYR:CE2	2:C:1056:PRO:HG3	2.53	0.43
3:D:144:ARG:HH12	3:D:229:LEU:N	2.17	0.43
3:D:480:ARG:HB3	3:D:482:GLN:HE22	1.84	0.43
3:D:487:LEU:HG	3:D:491:ILE:CD1	2.48	0.43
3:D:596:THR:HG22	3:D:626:VAL:O	2.18	0.43
3:D:1033:GLU:HA	3:D:1036:GLU:CG	2.48	0.43
3:D:1055:LEU:HB3	3:D:1101:ASP:CA	2.48	0.43
3:D:1060:ARG:HG2	3:D:1061:PHE:HD1	1.82	0.43
3:D:1110:GLN:HG2	3:D:1112:MET:O	2.17	0.43
3:D:1137:GLU:O	3:D:1140:GLU:HB3	2.19	0.43
3:D:1267:TYR:O	4:E:55:ILE:HG21	2.18	0.43
5:F:258:TYR:CE2	6:J:98:LEU:HD22	2.53	0.43
5:F:276:ALA:HA	5:F:279:ARG:HE	1.81	0.43
5:F:305:SER:O	5:F:308:LYS:HG2	2.18	0.43
5:F:330:ARG:O	5:F:333:GLU:HB2	2.18	0.43
1:A:14:LEU:CG	1:A:19:SER:HA	2.49	0.43
1:A:176:TYR:CB	1:A:194:LEU:HA	2.48	0.43
1:B:21:PHE:CB	1:B:194:LEU:HB2	2.33	0.43
1:B:51:VAL:HA	1:B:140:VAL:CG2	2.47	0.43
1:B:149:ALA:HA	1:B:164:VAL:O	2.18	0.43
2:C:204:VAL:O	2:C:206:PRO:HD3	2.19	0.43
2:C:354:THR:HB	2:C:364:PRO:HA	2.01	0.43
2:C:369:ASP:CG	2:C:372:HIS:H	2.22	0.43
2:C:721:VAL:HG23	2:C:915:ILE:C	2.39	0.43
2:C:721:VAL:O	2:C:1025:VAL:HA	2.19	0.43
2:C:736:ILE:HD11	2:C:916:ILE:CB	2.49	0.43
2:C:952:VAL:CG1	2:C:956:ALA:HB3	2.49	0.43
2:C:977:PHE:CZ	3:D:846:VAL:HG22	2.54	0.43
2:C:1079:TYR:O	3:D:558:LEU:HD23	2.19	0.43
3:D:101:VAL:HG13	3:D:375:GLN:CD	2.39	0.43
3:D:127:LYS:HB3	3:D:132:ALA:HB3	2.00	0.43
3:D:166:ARG:HB2	3:D:212:ALA:CB	2.48	0.43
3:D:284:GLY:C	3:D:289:LYS:HB2	2.39	0.43
3:D:637:LEU:HA	3:D:637:LEU:HD23	1.81	0.43
3:D:706:MET:O	3:D:709:VAL:HB	2.18	0.43
3:D:759:GLN:HA	3:D:762:ARG:CG	2.48	0.43
5:F:262:LEU:HD23	5:F:266:LEU:HD13	2.00	0.43
8:P:10:DT:H4'	8:P:11:DA:OP1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:24:GLU:HA	1:A:26:LEU:CD2	2.48	0.43
1:A:98:ARG:HD2	1:A:135:GLU:HG2	2.01	0.43
1:A:212:GLY:O	1:A:216:VAL:HG23	2.19	0.43
1:B:73:VAL:O	1:B:76:ILE:HB	2.19	0.43
1:B:102:PRO:HD3	1:B:131:LYS:H	1.83	0.43
2:C:622:GLU:HB3	2:C:717:LYS:CD	2.48	0.43
2:C:806:VAL:HG23	2:C:833:ARG:O	2.18	0.43
2:C:1012:ASP:CG	2:C:1015:SER:H	2.22	0.43
3:D:591:GLU:OE2	3:D:632:LYS:HB2	2.19	0.43
3:D:725:THR:OG1	3:D:726:ARG:NH1	2.50	0.43
3:D:824:VAL:CG1	3:D:851:ILE:HG22	2.48	0.43
3:D:938:VAL:HG13	3:D:942:GLN:CD	2.39	0.43
3:D:1125:GLN:HB2	3:D:1129:GLU:HG2	2.00	0.43
5:F:415:GLN:O	5:F:418:ARG:CG	2.67	0.43
8:P:1:DA:H1'	8:P:2:DG:H5'	2.00	0.43
1:A:64:THR:O	1:A:73:VAL:HG23	2.18	0.43
1:A:172:LEU:HB2	1:A:199:LYS:CB	2.45	0.43
1:A:177:LYS:CG	1:A:193:ILE:HB	2.49	0.43
1:A:182:ARG:HA	1:A:188:ASP:CG	2.39	0.43
1:B:102:PRO:HB3	1:B:130:ASP:HA	1.99	0.43
2:C:399:VAL:O	2:C:402:GLU:HB3	2.18	0.43
2:C:484:CYS:HB3	2:C:588:SER:HB3	1.99	0.43
2:C:907:LEU:HG	2:C:911:THR:O	2.19	0.43
3:D:69:ARG:CB	6:J:20:ARG:HH22	2.32	0.43
3:D:319:VAL:HG22	3:D:344:TYR:HE1	1.83	0.43
3:D:411:GLY:HA2	3:D:1228:GLU:N	2.33	0.43
3:D:1065:THR:OG1	3:D:1076:VAL:HG13	2.19	0.43
3:D:1220:TRP:O	3:D:1223:ALA:HB3	2.19	0.43
3:D:1221:LEU:HD11	11:D:1404:C0L:C04	2.49	0.43
1:A:53:SER:HB2	1:A:163:PRO:HA	1.99	0.43
1:B:18:ARG:HA	1:B:197:GLU:HA	2.01	0.43
1:B:105:VAL:HB	1:B:126:ALA:HB3	2.00	0.43
2:C:463:LEU:O	2:C:463:LEU:HD12	2.19	0.43
2:C:476:HIS:HB3	2:C:479:HIS:CD2	2.53	0.43
2:C:646:GLU:OE1	2:C:662:HIS:HB3	2.19	0.43
2:C:853:PHE:HD2	2:C:868:LEU:HD12	1.83	0.43
3:D:127:LYS:CB	3:D:132:ALA:HB3	2.48	0.43
3:D:425:SER:OG	3:D:426:GLY:N	2.51	0.43
3:D:550:GLU:OE1	3:D:550:GLU:N	2.44	0.43
3:D:556:ARG:HH12	4:E:35:ILE:HD12	1.83	0.43
3:D:607:PRO:C	3:D:609:THR:HG23	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1086:LEU:HD23	3:D:1099:LEU:HB3	2.01	0.43
5:F:234:GLN:HA	5:F:237:LYS:HD2	2.01	0.43
5:F:241:LEU:CB	5:F:245:GLU:HG3	2.44	0.43
6:J:88:ARG:HG3	6:J:89:ARG:HG2	2.00	0.43
7:O:10:DA:H2''	7:O:11:DA:C8	2.54	0.43
1:A:14:LEU:H	1:A:19:SER:HA	1.84	0.42
2:C:189:GLU:N	2:C:189:GLU:OE1	2.52	0.42
2:C:802:LEU:HD12	2:C:837:LEU:CG	2.38	0.42
2:C:1011:PHE:HD1	2:C:1018:PRO:HA	1.84	0.42
3:D:101:VAL:HG13	3:D:375:GLN:NE2	2.34	0.42
3:D:180:ASP:HB3	3:D:197:VAL:CG1	2.49	0.42
3:D:281:ILE:HG21	3:D:293:LEU:HD23	2.01	0.42
3:D:445:LYS:HA	3:D:516:LEU:CD2	2.45	0.42
3:D:487:LEU:HA	3:D:490:VAL:CG2	2.49	0.42
3:D:1068:PRO:HD3	3:D:1074:GLU:HG2	2.01	0.42
3:D:1268:ARG:HD2	3:D:1268:ARG:O	2.19	0.42
5:F:269:ARG:HD2	5:F:269:ARG:O	2.19	0.42
1:A:54:ILE:HD12	1:A:136:VAL:HG21	2.01	0.42
2:C:220:ASP:OD1	2:C:257:ILE:HG12	2.19	0.42
2:C:222:VAL:HB	2:C:224:VAL:CG2	2.49	0.42
2:C:274:LEU:CD1	2:C:292:ALA:HB1	2.49	0.42
2:C:587:VAL:HG22	2:C:591:THR:HB	2.01	0.42
2:C:660:VAL:HG21	2:C:670:TYR:HE2	1.84	0.42
2:C:1131:LEU:HB2	2:C:1133:LEU:CD1	2.50	0.42
3:D:110:VAL:O	3:D:110:VAL:HG13	2.18	0.42
3:D:345:ARG:O	3:D:349:ASN:ND2	2.52	0.42
3:D:517:VAL:HG11	3:D:523:GLN:CD	2.40	0.42
3:D:640:LEU:O	3:D:657:GLN:CG	2.46	0.42
3:D:797:ASN:HD21	3:D:799:ILE:HD12	1.84	0.42
3:D:822:GLY:O	3:D:835:PRO:HB2	2.19	0.42
5:F:258:TYR:HD1	6:J:82:TRP:HH2	1.67	0.42
5:F:386:LEU:CB	5:F:394:PRO:HG2	2.49	0.42
5:F:395:THR:O	5:F:399:LEU:HG	2.18	0.42
5:F:410:VAL:HA	5:F:413:ILE:HD12	2.01	0.42
6:J:85:LEU:O	6:J:89:ARG:N	2.52	0.42
6:J:91:ILE:O	6:J:94:LEU:HB2	2.19	0.42
1:A:24:GLU:OE1	1:A:191:LYS:HD2	2.19	0.42
1:A:43:LEU:HD21	2:C:901:VAL:CG1	2.48	0.42
1:A:104:GLU:HG3	1:A:124:HIS:CD2	2.53	0.42
1:A:161:ARG:O	1:A:162:ILE:HD13	2.18	0.42
1:A:213:LYS:HE2	1:B:223:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:18:ARG:HB2	1:B:197:GLU:HG3	2.01	0.42
1:B:32:TYR:CE1	2:C:1014:ARG:HD3	2.54	0.42
1:B:39:ARG:HD2	1:B:176:TYR:HE1	1.84	0.42
1:B:89:GLU:OE1	1:B:89:GLU:N	2.52	0.42
1:B:104:GLU:CA	1:B:128:LEU:HD13	2.49	0.42
1:B:106:THR:HA	1:B:125:ILE:N	2.33	0.42
1:B:134:LEU:HD21	1:B:136:VAL:CG2	2.49	0.42
2:C:122:CYS:HB3	2:C:127:MET:O	2.18	0.42
2:C:189:GLU:HA	2:C:199:LEU:C	2.40	0.42
2:C:220:ASP:C	2:C:257:ILE:HG23	2.39	0.42
2:C:317:ASN:CG	2:C:323:HIS:HB2	2.38	0.42
2:C:355:MET:C	2:C:362:GLU:HA	2.40	0.42
2:C:955:TRP:HA	2:C:958:ARG:NH1	2.32	0.42
2:C:1007:LYS:HD2	2:C:1022:PRO:C	2.39	0.42
3:D:138:SER:OG	3:D:139:VAL:N	2.53	0.42
3:D:240:LEU:O	3:D:244:LEU:HB2	2.19	0.42
3:D:261:ILE:O	3:D:265:ILE:HG13	2.20	0.42
3:D:1118:PRO:HA	3:D:1121:VAL:CG1	2.49	0.42
3:D:1220:TRP:CB	3:D:1241:ARG:HH21	2.28	0.42
3:D:1244:LYS:HB3	3:D:1246:ASN:ND2	2.34	0.42
5:F:329:ILE:O	5:F:332:VAL:HG12	2.20	0.42
5:F:442:SER:HB3	6:J:7:ARG:CD	2.36	0.42
5:F:493:GLY:O	5:F:497:GLY:N	2.52	0.42
5:F:507:GLU:HA	5:F:510:THR:OG1	2.19	0.42
1:A:71:GLU:CD	1:A:127:THR:H	2.23	0.42
1:A:87:SER:OG	1:A:88:GLU:N	2.53	0.42
1:B:50:ALA:N	1:B:141:GLU:O	2.40	0.42
2:C:140:ILE:HG12	2:C:146:GLU:C	2.40	0.42
2:C:200:HIS:ND1	2:C:349:HIS:HB2	2.35	0.42
2:C:344:TYR:CE1	2:C:363:VAL:HG23	2.53	0.42
2:C:600:ASP:OD1	2:C:928:ILE:N	2.53	0.42
2:C:714:ALA:O	2:C:715:LEU:HD23	2.19	0.42
2:C:741:LEU:O	2:C:745:ASP:N	2.53	0.42
3:D:87:VAL:O	3:D:90:GLU:N	2.37	0.42
3:D:129:ILE:HG13	3:D:130:TYR:N	2.35	0.42
3:D:445:LYS:O	3:D:449:LEU:HB2	2.19	0.42
3:D:453:LYS:HA	3:D:456:VAL:CG1	2.49	0.42
3:D:676:LEU:HD12	3:D:715:LYS:HB3	2.01	0.42
3:D:826:ASN:O	3:D:829:GLY:N	2.51	0.42
3:D:1077:TYR:O	3:D:1080:ILE:HD11	2.19	0.42
3:D:1156:VAL:O	3:D:1159:ARG:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:226:ASP:CG	5:F:229:ARG:H	2.23	0.42
6:J:32:TYR:O	6:J:39:GLU:HA	2.19	0.42
2:C:278:TYR:CE1	2:C:282:ARG:CD	2.98	0.42
2:C:626:VAL:CG1	2:C:888:ARG:HH22	2.33	0.42
2:C:1072:GLU:O	2:C:1076:MET:HG3	2.20	0.42
3:D:108:LYS:O	3:D:108:LYS:HG3	2.20	0.42
3:D:212:ALA:CA	3:D:215:GLU:HG2	2.49	0.42
3:D:420:LYS:HZ1	11:D:1404:C0L:C23	2.31	0.42
3:D:503:THR:HG21	3:D:508:GLY:HA3	2.00	0.42
3:D:797:ASN:O	3:D:801:THR:N	2.48	0.42
3:D:974:VAL:HG12	3:D:1159:ARG:HH12	1.84	0.42
3:D:1075:VAL:HG12	3:D:1077:TYR:CE2	2.54	0.42
3:D:1125:GLN:CB	3:D:1129:GLU:HG2	2.50	0.42
3:D:1198:GLY:O	3:D:1200:PRO:HD3	2.19	0.42
5:F:336:ASP:OD1	5:F:337:TYR:N	2.52	0.42
5:F:473:GLY:O	5:F:477:LEU:HG	2.19	0.42
7:O:22:DG:H2''	7:O:23:DT:O5'	2.20	0.42
1:A:105:VAL:HG12	1:A:125:ILE:CD1	2.46	0.42
1:B:120:ASN:N	1:B:121:PRO:HD3	2.35	0.42
3:D:169:GLU:OE1	3:D:208:ILE:HG23	2.20	0.42
3:D:420:LYS:HZ1	11:D:1404:C0L:C16	2.32	0.42
3:D:596:THR:HB	3:D:628:SER:HB2	2.01	0.42
3:D:601:PRO:HA	3:D:608:GLU:HB3	2.01	0.42
3:D:601:PRO:HA	3:D:608:GLU:HA	2.01	0.42
3:D:725:THR:OG1	3:D:726:ARG:HD2	2.19	0.42
3:D:1061:PHE:CE2	3:D:1063:LYS:HE2	2.55	0.42
3:D:1064:ILE:HG22	3:D:1065:THR:N	2.34	0.42
3:D:1118:PRO:HA	3:D:1121:VAL:HG12	2.01	0.42
3:D:1251:ASN:HA	3:D:1254:ILE:CD1	2.49	0.42
7:O:12:DG:H2''	7:O:13:DT:C5'	2.49	0.42
8:P:21:DT:H2''	8:P:22:DC:OP2	2.19	0.42
1:A:46:ILE:CG2	1:A:170:PRO:HG2	2.46	0.42
1:A:104:GLU:HG3	1:A:124:HIS:HD2	1.84	0.42
1:A:177:LYS:HE3	1:A:193:ILE:HD12	2.01	0.42
1:B:34:LEU:HD12	1:B:35:GLY:N	2.35	0.42
1:B:86:SER:HB3	1:B:117:THR:CG2	2.50	0.42
2:C:255:SER:HB3	2:C:258:MET:CB	2.50	0.42
2:C:377:ARG:HA	2:C:511:PHE:CE1	2.55	0.42
2:C:453:ARG:NH2	2:C:500:LEU:HB2	2.34	0.42
2:C:560:LEU:HA	2:C:560:LEU:HD23	1.91	0.42
2:C:723:ILE:O	2:C:723:ILE:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:771:ARG:HG3	2:C:788:GLY:H	1.84	0.42
2:C:1112:ILE:HG23	2:C:1113:PRO:HD2	2.01	0.42
3:D:47:PHE:HE2	3:D:327:MET:HE3	1.84	0.42
3:D:410:GLN:O	3:D:1228:GLU:N	2.53	0.42
3:D:595:ASP:H	3:D:598:GLU:CD	2.23	0.42
3:D:599:TYR:HD1	3:D:610:GLY:HA3	1.84	0.42
3:D:1199:GLU:N	3:D:1199:GLU:OE1	2.53	0.42
4:E:101:ALA:HB1	4:E:103:LEU:HD13	2.01	0.42
5:F:342:LYS:HZ2	7:O:29:DA:C3'	2.32	0.42
1:A:218:LEU:O	1:A:221:LEU:HB3	2.20	0.42
1:B:3:ILE:HB	1:B:233:GLU:O	2.20	0.42
1:B:113:PRO:HD2	1:B:116:VAL:HG21	2.02	0.42
2:C:41:PHE:HB3	2:C:43:LYS:HZ2	1.85	0.42
2:C:185:VAL:O	2:C:185:VAL:HG23	2.19	0.42
2:C:290:GLU:C	2:C:294:THR:HG1	2.22	0.42
2:C:322:LEU:HD23	2:C:357:VAL:HG11	2.00	0.42
2:C:396:MET:HE3	2:C:419:ASN:H	1.85	0.42
2:C:583:PRO:HB2	2:C:584:ARG:HE	1.84	0.42
2:C:796:VAL:HG22	2:C:845:GLY:O	2.19	0.42
2:C:875:GLN:HE21	2:C:877:ARG:HH21	1.68	0.42
2:C:1009:MET:O	2:C:1010:LEU:HD23	2.19	0.42
3:D:50:LYS:HG3	3:D:79:GLY:O	2.19	0.42
3:D:52:PHE:HB2	3:D:88:ARG:NH1	2.35	0.42
3:D:937:ILE:HD13	3:D:952:LEU:HD23	2.02	0.42
3:D:940:ARG:NH1	3:D:963:ARG:HH21	2.17	0.42
3:D:1079:LYS:HD3	3:D:1079:LYS:HA	1.89	0.42
3:D:1119:HIS:CE1	3:D:1207:LEU:HD12	2.55	0.42
6:J:76:LYS:H	6:J:76:LYS:HD3	1.83	0.42
7:O:5:DG:H1'	7:O:6:DA:C5'	2.50	0.42
1:B:1:MET:CB	1:B:232:ILE:HG12	2.49	0.42
1:B:7:PRO:CA	1:B:25:PRO:HD2	2.43	0.42
1:B:97:LEU:HD12	1:B:97:LEU:HA	1.79	0.42
2:C:483:MET:HE2	2:C:498:GLY:HA3	2.01	0.42
2:C:515:PRO:HA	2:C:529:VAL:O	2.20	0.42
2:C:697:GLU:OE1	2:C:697:GLU:N	2.53	0.42
2:C:851:ARG:O	2:C:869:VAL:HA	2.20	0.42
2:C:862:PRO:O	2:C:865:VAL:HB	2.20	0.42
3:D:155:MET:CE	3:D:219:LEU:HB3	2.50	0.42
3:D:277:LEU:HD21	3:D:295:ARG:NH1	2.34	0.42
3:D:1120:GLU:O	3:D:1124:VAL:HG23	2.20	0.42
5:F:262:LEU:HA	5:F:265:GLU:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:345:THR:OG1	7:O:29:DA:H2'	2.19	0.42
6:J:65:ILE:HG23	6:J:66:GLU:HG2	2.01	0.42
8:P:6:DA:OP2	8:P:6:DA:H2'	2.19	0.42
1:A:14:LEU:N	1:A:19:SER:HA	2.35	0.42
1:B:164:VAL:HG23	1:B:165:ASP:O	2.20	0.42
1:B:172:LEU:HB2	1:B:197:GLU:O	2.20	0.42
1:B:192:LEU:HD12	1:B:193:ILE:N	2.34	0.42
2:C:70:TRP:HH2	2:C:83:VAL:N	2.18	0.42
2:C:254:PHE:HE2	2:C:347:ARG:HG2	1.84	0.42
2:C:413:THR:O	2:C:416:THR:N	2.53	0.42
2:C:419:ASN:HD21	2:C:421:ARG:CG	2.33	0.42
2:C:483:MET:HG3	2:C:499:SER:O	2.20	0.42
2:C:546:SER:O	2:C:548:ILE:N	2.52	0.42
2:C:635:ALA:O	2:C:638:ALA:HB3	2.20	0.42
2:C:792:ILE:HD12	2:C:792:ILE:H	1.84	0.42
2:C:884:LYS:C	2:C:885:LEU:HD12	2.41	0.42
3:D:83:THR:OG1	3:D:84:ARG:N	2.53	0.42
3:D:173:ARG:HD3	3:D:201:GLY:O	2.20	0.42
3:D:567:SER:HB3	3:D:570:SER:H	1.85	0.42
3:D:1066:ILE:N	3:D:1075:VAL:O	2.37	0.42
3:D:1234:THR:HG23	3:D:1235:ASP:N	2.35	0.42
5:F:231:TYR:O	5:F:235:ILE:HG23	2.20	0.42
5:F:244:GLU:HA	5:F:247:VAL:CG2	2.49	0.42
1:A:38:LEU:O	1:A:42:LEU:HG	2.19	0.41
1:A:144:ARG:C	1:A:168:TYR:HB2	2.40	0.41
1:A:146:TYR:CE1	1:A:165:ASP:HB3	2.55	0.41
1:B:85:VAL:CB	1:B:118:VAL:HA	2.49	0.41
1:B:102:PRO:CD	1:B:131:LYS:H	2.33	0.41
1:B:177:LYS:O	1:B:192:LEU:HD12	2.20	0.41
1:B:192:LEU:HD12	1:B:193:ILE:H	1.84	0.41
2:C:395:ARG:HA	2:C:398:ARG:CG	2.50	0.41
2:C:532:THR:HG22	2:C:535:GLU:CD	2.40	0.41
2:C:558:ARG:HH21	2:C:570:TYR:HB2	1.84	0.41
2:C:683:CYS:HA	2:C:752:ILE:CD1	2.50	0.41
2:C:854:SER:O	2:C:859:ASP:HB2	2.19	0.41
3:D:169:GLU:O	3:D:208:ILE:HD13	2.19	0.41
3:D:497:LEU:HB3	3:D:509:ILE:HG21	2.03	0.41
3:D:847:LEU:HD12	3:D:847:LEU:N	2.35	0.41
3:D:901:LEU:HB3	3:D:958:THR:HA	2.02	0.41
3:D:930:VAL:CA	3:D:936:VAL:HA	2.38	0.41
3:D:1046:ILE:HG22	3:D:1110:GLN:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1053:VAL:HG13	3:D:1101:ASP:HA	2.02	0.41
3:D:1168:ILE:N	3:D:1202:ALA:O	2.51	0.41
3:D:1251:ASN:HA	3:D:1254:ILE:HD11	2.02	0.41
5:F:446:VAL:O	5:F:446:VAL:HG12	2.19	0.41
1:A:14:LEU:CD2	1:A:20:GLN:HG3	2.50	0.41
1:B:106:THR:HA	1:B:125:ILE:H	1.85	0.41
2:C:94:SER:OG	2:C:95:PRO:HA	2.20	0.41
2:C:395:ARG:O	2:C:398:ARG:HG3	2.20	0.41
2:C:470:LEU:HD21	3:D:861:ALA:HB1	2.02	0.41
2:C:556:GLU:HB2	2:C:557:PRO:HD2	2.02	0.41
2:C:789:ILE:CG2	2:C:803:VAL:HG13	2.50	0.41
3:D:302:PHE:HA	3:D:305:SER:OG	2.20	0.41
3:D:587:TYR:O	3:D:590:THR:HG22	2.20	0.41
3:D:866:ARG:HH11	3:D:1011:THR:HA	1.82	0.41
3:D:1062:TYR:O	3:D:1080:ILE:HB	2.21	0.41
3:D:1062:TYR:CB	3:D:1080:ILE:HB	2.46	0.41
3:D:1086:LEU:HD23	3:D:1099:LEU:CB	2.50	0.41
5:F:264:THR:HA	5:F:267:SER:CB	2.45	0.41
5:F:318:LEU:O	5:F:321:ILE:HB	2.20	0.41
5:F:522:VAL:HG23	5:F:523:LEU:HD23	2.01	0.41
8:P:4:DA:H3'	8:P:4:DA:OP1	2.20	0.41
1:A:203:SER:OG	1:A:205:ARG:HG3	2.20	0.41
1:B:171:VAL:C	1:B:172:LEU:HD12	2.40	0.41
2:C:152:VAL:HG21	2:C:418:ILE:HD13	2.03	0.41
2:C:298:ASN:HD22	2:C:302:LYS:CE	2.33	0.41
2:C:447:SER:OG	2:C:613:ARG:HB2	2.20	0.41
2:C:532:THR:HG22	2:C:535:GLU:OE2	2.20	0.41
2:C:762:THR:HG23	2:C:765:GLY:N	2.35	0.41
2:C:805:LYS:HD3	2:C:835:THR:HG1	1.85	0.41
3:D:33:THR:HG21	5:F:365:THR:HG22	2.02	0.41
3:D:148:LEU:HA	3:D:151:LEU:HB2	2.02	0.41
3:D:496:VAL:HG22	3:D:512:PHE:O	2.20	0.41
1:A:194:LEU:HD23	1:A:195:ASP:N	2.35	0.41
1:B:6:ARG:NH1	1:B:234:ILE:HG22	2.35	0.41
1:B:15:THR:HG23	1:B:18:ARG:HB3	2.03	0.41
1:B:75:GLU:HG3	1:B:79:ASN:HD21	1.86	0.41
1:B:84:VAL:HG13	1:B:84:VAL:O	2.20	0.41
1:B:87:SER:O	1:B:142:ARG:NH1	2.53	0.41
2:C:224:VAL:C	2:C:232:GLN:HB2	2.41	0.41
2:C:271:ASP:HA	2:C:274:LEU:HB2	2.02	0.41
2:C:290:GLU:OE1	2:C:290:GLU:N	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:407:GLN:HG3	2:C:417:LEU:HD21	2.00	0.41
2:C:728:GLY:O	2:C:731:TYR:HB2	2.19	0.41
2:C:891:ASN:OD1	2:C:891:ASN:N	2.53	0.41
2:C:1111:ASN:ND2	4:E:66:ASP:OD1	2.50	0.41
3:D:69:ARG:NH1	6:J:25:ALA:HB2	2.36	0.41
3:D:800:ILE:HG12	3:D:804:ASP:OD2	2.20	0.41
3:D:1251:ASN:CA	3:D:1254:ILE:HG12	2.50	0.41
5:F:328:LEU:O	5:F:332:VAL:HG12	2.20	0.41
5:F:448:VAL:O	5:F:451:VAL:HG12	2.21	0.41
1:A:36:ASN:HD22	2:C:1016:GLY:N	2.19	0.41
1:A:151:GLN:NE2	2:C:795:GLU:OE2	2.40	0.41
1:B:60:LEU:HD23	1:B:159:ILE:HD13	2.03	0.41
1:B:134:LEU:CG	1:B:136:VAL:HG23	2.50	0.41
2:C:50:VAL:HA	2:C:51:PRO:HD3	1.90	0.41
2:C:239:LYS:HZ3	2:C:268:VAL:HG13	1.85	0.41
2:C:273:ALA:O	2:C:277:ILE:HG12	2.20	0.41
2:C:278:TYR:CD1	2:C:282:ARG:HD2	2.55	0.41
2:C:541:VAL:O	2:C:561:VAL:HG23	2.20	0.41
2:C:1094:ASP:HB3	2:C:1119:GLU:CB	2.51	0.41
3:D:104:ILE:O	3:D:108:LYS:N	2.38	0.41
3:D:270:ILE:CD1	3:D:303:GLN:HA	2.50	0.41
3:D:350:ARG:HH11	3:D:377:SER:HB3	1.83	0.41
3:D:601:PRO:HA	3:D:608:GLU:CG	2.51	0.41
3:D:822:GLY:O	3:D:836:VAL:HB	2.19	0.41
3:D:1030:ARG:CZ	3:D:1034:LEU:HD21	2.50	0.41
3:D:1055:LEU:CB	3:D:1101:ASP:HA	2.50	0.41
3:D:1231:ARG:HA	3:D:1234:THR:CG2	2.50	0.41
5:F:242:ASN:H	5:F:245:GLU:CG	2.34	0.41
5:F:334:LYS:HZ3	7:O:25:DC:H3'	1.85	0.41
5:F:382:ILE:HD13	5:F:385:GLU:OE1	2.21	0.41
6:J:55:LEU:HG	6:J:60:MET:C	2.40	0.41
2:C:126:ASP:O	2:C:169:ASN:HA	2.21	0.41
2:C:455:LEU:HD21	2:C:500:LEU:HD21	2.01	0.41
2:C:600:ASP:CG	2:C:929:GLY:H	2.24	0.41
2:C:648:GLY:C	2:C:695:ARG:HG3	2.40	0.41
2:C:1055:GLN:HA	2:C:1056:PRO:HD3	1.95	0.41
2:C:1089:LEU:HA	2:C:1089:LEU:HD23	1.80	0.41
3:D:35:ASN:O	3:D:39:LEU:HA	2.20	0.41
3:D:159:ARG:HD2	3:D:220:GLU:OE2	2.20	0.41
3:D:438:LEU:HG	3:D:561:SER:OG	2.21	0.41
3:D:624:ARG:HG2	3:D:625:GLY:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:923:ARG:HH21	3:D:1150:HIS:CE1	2.39	0.41
3:D:1027:GLY:O	3:D:1031:VAL:HG23	2.20	0.41
3:D:1052:ARG:HG2	3:D:1067:VAL:HG11	2.02	0.41
3:D:1063:LYS:CD	3:D:1078:ASP:HA	2.41	0.41
5:F:234:GLN:HA	5:F:237:LYS:CD	2.51	0.41
5:F:368:ILE:HG23	5:F:369:PRO:HD2	2.03	0.41
6:J:105:ILE:HG13	6:J:108:ARG:NH2	2.36	0.41
8:P:11:DA:H1'	8:P:12:DA:O5'	2.20	0.41
1:A:56:ILE:HG12	1:A:135:GLU:O	2.21	0.41
1:A:223:ARG:CD	1:B:213:LYS:HA	2.50	0.41
1:B:68:GLY:O	1:B:129:ASN:N	2.40	0.41
2:C:178:GLN:HA	2:C:456:SER:O	2.21	0.41
2:C:234:VAL:O	2:C:238:LEU:HD23	2.21	0.41
2:C:239:LYS:NZ	2:C:268:VAL:HG13	2.36	0.41
2:C:347:ARG:NE	2:C:355:MET:HB2	2.36	0.41
2:C:532:THR:HG22	2:C:535:GLU:HG2	2.03	0.41
2:C:589:VAL:O	2:C:592:ALA:HB3	2.21	0.41
2:C:654:SER:N	2:C:657:TYR:O	2.53	0.41
2:C:805:LYS:HD3	2:C:835:THR:OG1	2.20	0.41
2:C:860:GLU:O	2:C:861:LEU:HD12	2.21	0.41
2:C:889:HIS:HB2	2:C:891:ASN:ND2	2.35	0.41
2:C:899:LEU:HD13	2:C:899:LEU:HA	1.85	0.41
2:C:1134:ASN:HB3	3:D:13:GLY:C	2.41	0.41
3:D:107:PHE:HZ	3:D:126:GLU:HB2	1.85	0.41
3:D:118:LEU:HD23	3:D:118:LEU:HA	1.83	0.41
3:D:445:LYS:CA	3:D:516:LEU:HD22	2.47	0.41
3:D:480:ARG:HA	3:D:481:PRO:HD3	1.95	0.41
3:D:503:THR:CG2	3:D:508:GLY:HA3	2.51	0.41
3:D:665:GLU:HG3	3:D:665:GLU:O	2.21	0.41
5:F:245:GLU:O	5:F:249:LEU:HG	2.20	0.41
5:F:502:ARG:HA	5:F:502:ARG:HD2	1.83	0.41
1:A:47:PRO:HG3	1:B:230:GLU:HG2	2.03	0.41
2:C:148:LYS:HB3	2:C:414:PRO:HD3	2.03	0.41
2:C:223:GLY:CA	2:C:231:ARG:HH22	2.34	0.41
2:C:290:GLU:O	2:C:294:THR:OG1	2.35	0.41
2:C:436:LEU:HD11	2:C:460:PRO:HD2	2.03	0.41
2:C:524:VAL:HG23	2:C:554:PHE:CZ	2.56	0.41
2:C:689:ILE:CG2	2:C:704:ASP:H	2.34	0.41
2:C:1007:LYS:HB2	2:C:1022:PRO:HB2	2.02	0.41
2:C:1043:ALA:HA	3:D:426:GLY:CA	2.49	0.41
2:C:1071:MET:SD	3:D:502:PRO:CA	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:10:LEU:HB3	3:D:1245:LEU:HD21	2.03	0.41
3:D:61:TYR:CB	3:D:78:CYS:HB2	2.50	0.41
3:D:84:ARG:HG2	3:D:86:LYS:HG2	2.03	0.41
3:D:432:VAL:HG22	3:D:434:PRO:HD3	2.03	0.41
3:D:451:LEU:HD13	3:D:451:LEU:HA	1.89	0.41
3:D:822:GLY:O	3:D:836:VAL:N	2.54	0.41
3:D:1140:GLU:HA	3:D:1143:ARG:HD2	2.01	0.41
3:D:1162:LEU:HD23	3:D:1162:LEU:HA	1.86	0.41
4:E:38:PRO:HB2	4:E:39:PRO:HD2	2.03	0.41
4:E:40:ILE:HA	4:E:43:LEU:HB2	2.02	0.41
5:F:342:LYS:HG3	5:F:344:SER:H	1.86	0.41
5:F:451:VAL:O	5:F:455:LEU:HD23	2.21	0.41
6:J:58:ASN:ND2	6:J:60:MET:HG2	2.36	0.41
7:O:15:DT:H2''	7:O:16:DT:C6	2.56	0.41
1:A:14:LEU:HD21	1:A:20:GLN:CG	2.50	0.41
1:A:34:LEU:O	1:A:34:LEU:HD13	2.20	0.41
1:A:83:LEU:HA	1:A:123:MET:SD	2.61	0.41
1:A:89:GLU:OE2	1:A:93:VAL:HG11	2.20	0.41
1:A:98:ARG:HG3	1:A:135:GLU:HG2	2.03	0.41
1:B:53:SER:HB2	1:B:162:ILE:O	2.21	0.41
1:B:69:VAL:O	1:B:129:ASN:ND2	2.51	0.41
1:B:86:SER:O	1:B:116:VAL:HA	2.21	0.41
2:C:98:ASP:OD1	2:C:98:ASP:N	2.52	0.41
2:C:229:LYS:HD3	2:C:229:LYS:HA	1.32	0.41
2:C:238:LEU:HD12	2:C:243:TRP:CG	2.56	0.41
2:C:270:THR:C	2:C:274:LEU:HD23	2.41	0.41
2:C:403:ARG:O	2:C:407:GLN:HG2	2.21	0.41
2:C:476:HIS:HD2	2:C:478:SER:OG	2.04	0.41
2:C:749:SER:OG	2:C:877:ARG:HB2	2.20	0.41
2:C:764:LEU:CB	2:C:808:PRO:HG2	2.51	0.41
2:C:851:ARG:O	2:C:870:ARG:N	2.36	0.41
2:C:887:GLY:HA3	2:C:1028:MET:HE1	2.02	0.41
2:C:934:THR:HG22	2:C:1026:GLY:HA3	2.03	0.41
2:C:956:ALA:HA	2:C:959:LEU:CG	2.51	0.41
2:C:958:ARG:HD3	2:C:958:ARG:N	2.33	0.41
2:C:1048:PRO:O	2:C:1057:LEU:N	2.45	0.41
3:D:74:ILE:HG23	3:D:80:VAL:N	2.36	0.41
3:D:334:ARG:CD	5:F:418:ARG:HB3	2.38	0.41
3:D:354:LEU:HD22	3:D:370:GLU:HG3	2.03	0.41
3:D:525:HIS:HE1	3:D:527:LEU:HD12	1.85	0.41
3:D:546:PRO:O	3:D:547:LEU:HD23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:611:VAL:HA	3:D:634:LYS:O	2.21	0.41
3:D:749:TYR:CZ	3:D:781:ALA:HA	2.56	0.41
3:D:800:ILE:HG12	3:D:804:ASP:CG	2.41	0.41
3:D:1045:PRO:HB2	3:D:1111:LEU:CD2	2.47	0.41
3:D:1169:ASP:CB	3:D:1202:ALA:HB3	2.50	0.41
3:D:1191:ARG:NE	3:D:1191:ARG:HA	2.36	0.41
3:D:1217:THR:OG1	3:D:1218:ASP:N	2.54	0.41
5:F:242:ASN:ND2	5:F:244:GLU:OE2	2.54	0.41
5:F:337:TYR:O	5:F:340:GLY:N	2.39	0.41
5:F:347:ALA:HB1	5:F:351:ILE:HD11	2.02	0.41
5:F:415:GLN:C	5:F:418:ARG:HG3	2.40	0.41
5:F:498:VAL:CG2	5:F:503:ILE:HD11	2.51	0.41
7:O:9:DA:H1'	7:O:10:DA:C5'	2.48	0.41
1:A:221:LEU:HD12	1:A:225:LEU:HD21	2.03	0.41
1:B:1:MET:HB2	1:B:232:ILE:CA	2.45	0.41
1:B:18:ARG:HD2	1:B:197:GLU:OE1	2.21	0.41
1:B:29:GLY:HA2	1:B:190:ASP:OD2	2.21	0.41
2:C:70:TRP:HA	2:C:73:SER:HB2	2.03	0.41
2:C:84:GLY:H	2:C:87:GLU:CD	2.24	0.41
2:C:199:LEU:HD22	2:C:216:VAL:O	2.21	0.41
2:C:236:VAL:O	2:C:240:ALA:HB2	2.21	0.41
2:C:516:TYR:CD2	2:C:531:LEU:HD12	2.56	0.41
2:C:621:SER:O	2:C:709:ASP:HB2	2.21	0.41
2:C:653:VAL:HA	2:C:658:ILE:HA	2.02	0.41
2:C:720:LEU:HD12	2:C:1026:GLY:O	2.21	0.41
2:C:764:LEU:HB3	2:C:808:PRO:HG2	2.03	0.41
2:C:776:ILE:HG13	2:C:780:VAL:CG2	2.51	0.41
2:C:851:ARG:HD2	2:C:851:ARG:HA	1.91	0.41
2:C:924:ARG:HH22	2:C:925:ARG:HH11	1.69	0.41
2:C:942:SER:O	2:C:968:PRO:HB3	2.21	0.41
2:C:1048:PRO:C	2:C:1056:PRO:HA	2.41	0.41
2:C:1072:GLU:HG2	3:D:509:ILE:CG1	2.51	0.41
3:D:354:LEU:HD13	3:D:370:GLU:CB	2.48	0.41
3:D:820:MET:HG3	3:D:837:LYS:CA	2.51	0.41
3:D:876:ARG:HD2	3:D:1211:THR:HG22	2.02	0.41
3:D:1039:VAL:HG23	3:D:1039:VAL:O	2.20	0.41
3:D:1174:GLU:HG3	3:D:1174:GLU:O	2.21	0.41
5:F:515:ARG:CZ	5:F:515:ARG:HB2	2.50	0.41
8:P:4:DA:H2''	8:P:5:DC:O5'	2.21	0.41
8:P:22:DC:H2''	8:P:23:DA:OP2	2.21	0.41
1:A:53:SER:O	1:A:139:VAL:HB	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:55:ARG:CD	1:A:160:GLY:HA3	2.51	0.40
1:A:95:MET:O	1:A:138:LEU:N	2.54	0.40
1:A:96:TYR:O	1:A:111:VAL:HG12	2.21	0.40
1:A:96:TYR:CD1	1:A:137:GLU:HA	2.56	0.40
1:A:148:PRO:HA	1:A:165:ASP:OD1	2.21	0.40
1:B:106:THR:CA	1:B:125:ILE:HG22	2.50	0.40
2:C:40:SER:HB2	2:C:973:SER:OG	2.21	0.40
2:C:212:LEU:HB2	2:C:226:ILE:HG13	2.00	0.40
2:C:349:HIS:ND1	2:C:349:HIS:O	2.54	0.40
2:C:489:PRO:O	2:C:494:ILE:HG12	2.21	0.40
2:C:798:ASP:HA	2:C:839:VAL:HG13	2.03	0.40
2:C:944:TRP:C	2:C:993:LEU:HD23	2.42	0.40
2:C:1042:HIS:O	3:D:427:ARG:N	2.52	0.40
3:D:18:GLU:HA	3:D:21:ARG:CG	2.50	0.40
3:D:129:ILE:HG13	3:D:130:TYR:CD2	2.56	0.40
3:D:797:ASN:HD22	3:D:798:PRO:CD	2.34	0.40
3:D:1065:THR:HG21	3:D:1076:VAL:HG22	2.03	0.40
3:D:1172:SER:N	3:D:1199:GLU:HG3	2.36	0.40
5:F:334:LYS:HG2	5:F:346:TYR:HH	1.87	0.40
5:F:513:LYS:HD2	5:F:516:HIS:HE1	1.86	0.40
6:J:32:TYR:HD1	6:J:64:LEU:HA	1.83	0.40
6:J:42:VAL:HB	6:J:44:PHE:CE2	2.57	0.40
6:J:55:LEU:HD11	6:J:59:GLY:O	2.20	0.40
8:P:14:DA:H2''	8:P:15:DC:OP2	2.19	0.40
8:P:15:DC:H2''	8:P:16:DT:OP2	2.20	0.40
1:A:107:ALA:N	1:A:123:MET:O	2.55	0.40
1:A:118:VAL:HG12	1:A:119:HIS:N	2.36	0.40
2:C:179:LEU:HD23	2:C:179:LEU:HA	1.94	0.40
2:C:627:GLY:H	2:C:973:SER:HA	1.86	0.40
2:C:754:GLU:OE2	2:C:870:ARG:HD2	2.21	0.40
2:C:906:PHE:CB	2:C:912:PRO:HA	2.51	0.40
3:D:207:GLN:HE21	3:D:211:ARG:NE	2.20	0.40
3:D:229:LEU:HA	3:D:229:LEU:HD12	1.87	0.40
3:D:524:LEU:HG	3:D:525:HIS:O	2.21	0.40
3:D:1036:GLU:HB2	3:D:1038:ARG:HG2	2.04	0.40
3:D:1211:THR:O	3:D:1214:SER:OG	2.34	0.40
5:F:234:GLN:HA	5:F:237:LYS:HE3	2.00	0.40
5:F:358:ALA:HA	5:F:361:ASP:HB2	2.02	0.40
1:A:7:PRO:HA	1:A:25:PRO:CD	2.33	0.40
1:A:95:MET:HB3	1:A:113:PRO:CD	2.50	0.40
1:B:3:ILE:CG1	1:B:234:ILE:HA	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:104:GLU:HG2	1:B:127:THR:CB	2.52	0.40
2:C:116:LYS:NZ	2:C:130:ALA:HB3	2.36	0.40
2:C:180:VAL:O	2:C:377:ARG:HG2	2.22	0.40
2:C:353:THR:O	2:C:364:PRO:HA	2.21	0.40
2:C:357:VAL:HG22	2:C:358:PRO:HD2	2.02	0.40
2:C:455:LEU:N	2:C:498:GLY:O	2.46	0.40
2:C:802:LEU:HB2	2:C:837:LEU:CG	2.51	0.40
2:C:1095:ASP:OD2	2:C:1098:GLY:HA3	2.21	0.40
3:D:24:SER:OG	3:D:93:GLY:HA2	2.21	0.40
3:D:27:GLU:HG3	3:D:94:HIS:O	2.21	0.40
3:D:329:GLN:HA	3:D:335:PHE:CB	2.51	0.40
3:D:1278:ALA:O	3:D:1281:ALA:HB3	2.21	0.40
5:F:339:LYS:HB3	5:F:341:TYR:HE2	1.84	0.40
5:F:440:GLU:CA	6:J:7:ARG:HA	2.51	0.40
1:A:45:SER:HA	1:A:144:ARG:HH11	1.85	0.40
2:C:275:LEU:HB3	2:C:289:LYS:HZ3	1.87	0.40
2:C:347:ARG:HG2	2:C:350:GLU:OE1	2.21	0.40
2:C:413:THR:CG2	2:C:416:THR:H	2.34	0.40
2:C:731:TYR:OH	3:D:578:ARG:HD3	2.21	0.40
2:C:739:ASN:N	2:C:899:LEU:O	2.53	0.40
3:D:95:ILE:HB	3:D:317:VAL:HB	2.02	0.40
3:D:816:THR:HG22	3:D:821:LYS:CD	2.52	0.40
5:F:415:GLN:HG2	5:F:418:ARG:CD	2.52	0.40
5:F:447:ALA:O	5:F:449:ASP:N	2.53	0.40
7:O:12:DG:H2''	7:O:13:DT:O5'	2.21	0.40
7:O:27:DA:H2'	7:O:27:DA:OP2	2.21	0.40
8:P:2:DG:H2''	8:P:3:DC:O5'	2.20	0.40
8:P:20:DG:H1'	8:P:21:DT:O5'	2.22	0.40
1:B:48:GLY:HA3	1:B:168:TYR:O	2.22	0.40
2:C:447:SER:HB2	2:C:613:ARG:HB2	2.04	0.40
2:C:456:SER:HB2	2:C:497:ILE:HG12	2.04	0.40
2:C:514:THR:HG23	2:C:515:PRO:HD2	2.02	0.40
2:C:649:VAL:O	2:C:661:MET:HB3	2.21	0.40
2:C:1067:ARG:HG3	3:D:421:ARG:CA	2.52	0.40
2:C:1086:GLN:HG3	3:D:1255:GLY:O	2.21	0.40
3:D:33:THR:HB	3:D:327:MET:CE	2.52	0.40
3:D:41:PRO:HB3	3:D:47:PHE:HB2	2.04	0.40
3:D:194:ARG:O	3:D:198:ARG:HG3	2.22	0.40
3:D:314:LEU:HD11	3:D:316:ALA:O	2.21	0.40
3:D:497:LEU:HB2	3:D:544:HIS:HB2	2.03	0.40
3:D:577:PRO:HB3	3:D:581:MET:SD	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:736:VAL:O	3:D:841:ARG:NE	2.54	0.40
5:F:255:ALA:CB	6:J:101:ARG:HG3	2.52	0.40
6:J:10:ARG:HD2	6:J:10:ARG:N	2.36	0.40
8:P:9:DT:H2''	8:P:10:DT:C6	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	223/347 (64%)	192 (86%)	31 (14%)	0	100	100
1	B	235/347 (68%)	199 (85%)	36 (15%)	0	100	100
2	C	1109/1179 (94%)	959 (86%)	146 (13%)	4 (0%)	34	72
3	D	1260/1326 (95%)	1109 (88%)	150 (12%)	1 (0%)	51	85
4	E	81/110 (74%)	72 (89%)	9 (11%)	0	100	100
5	F	317/531 (60%)	291 (92%)	24 (8%)	2 (1%)	25	65
6	J	106/111 (96%)	91 (86%)	14 (13%)	1 (1%)	17	56
All	All	3331/3951 (84%)	2913 (88%)	410 (12%)	8 (0%)	50	81

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	C	231	ARG
2	C	1074	TRP
3	D	422	VAL
5	F	224	SER
5	F	447	ALA
2	C	230	ARG
2	C	1068	PHE

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Mol	Chain	Res	Type
6	J	108	ARG

5.3.2 Protein sidechains [i](#)

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	194/297 (65%)	191 (98%)	3 (2%)	65 80
1	B	194/297 (65%)	193 (100%)	1 (0%)	88 93
2	C	933/997 (94%)	920 (99%)	13 (1%)	67 81
3	D	1042/1103 (94%)	1030 (99%)	12 (1%)	71 84
4	E	69/89 (78%)	68 (99%)	1 (1%)	67 81
5	F	264/429 (62%)	262 (99%)	2 (1%)	81 89
6	J	93/97 (96%)	89 (96%)	4 (4%)	29 55
All	All	2789/3309 (84%)	2753 (99%)	36 (1%)	70 82

All (36) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	18	ARG
1	A	98	ARG
1	A	205	ARG
1	B	226	ASN
2	C	77	ARG
2	C	81	ASN
2	C	141	ASN
2	C	148	LYS
2	C	181	ARG
2	C	193	LYS
2	C	229	LYS
2	C	231	ARG
2	C	282	ARG
2	C	419	ASN
2	C	584	ARG
2	C	787	ARG

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Mol	Chain	Res	Type
2	C	958	ARG
3	D	5	ASN
3	D	209	ARG
3	D	239	ASN
3	D	422	VAL
3	D	499	ASN
3	D	657	GLN
3	D	733	MET
3	D	741	ARG
3	D	797	ASN
3	D	1060	ARG
3	D	1097	ARG
3	D	1159	ARG
4	E	65	ASN
5	F	269	ARG
5	F	384	ARG
6	J	4	ARG
6	J	27	ARG
6	J	76	LYS
6	J	110	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (53) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	GLN
1	A	36	ASN
1	A	79	ASN
1	A	124	HIS
1	A	185	GLN
1	B	5	GLN
1	B	61	HIS
1	B	79	ASN
1	B	124	HIS
1	B	226	ASN
2	C	81	ASN
2	C	141	ASN
2	C	150	GLN
2	C	298	ASN
2	C	386	GLN
2	C	387	ASN
2	C	419	ASN
2	C	435	GLN

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Mol	Chain	Res	Type
2	C	442	GLN
2	C	476	HIS
2	C	479	HIS
2	C	729	HIS
2	C	841	HIS
2	C	875	GLN
2	C	920	HIS
2	C	1034	HIS
2	C	1054	GLN
2	C	1055	GLN
2	C	1062	GLN
3	D	5	ASN
3	D	207	GLN
3	D	239	ASN
3	D	307	ASN
3	D	329	GLN
3	D	352	ASN
3	D	465	HIS
3	D	494	HIS
3	D	564	ASN
3	D	687	GLN
3	D	748	HIS
3	D	771	ASN
3	D	797	ASN
3	D	1133	HIS
3	D	1145	GLN
3	D	1227	GLN
3	D	1269	ASN
4	E	65	ASN
5	F	294	HIS
5	F	322	GLN
5	F	325	ASN
5	F	377	ASN
5	F	516	HIS
6	J	58	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 3 are monoatomic - leaving 1 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
11	C0L	D	1404	-	36,38,38	2.64	13 (36%)	38,49,49	2.97	12 (31%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
11	C0L	D	1404	-	-	20/38/57/57	0/1/1/1

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	D	1404	C0L	O24-C23	8.59	1.39	1.21
11	D	1404	C0L	O19-C18	5.65	1.39	1.24
11	D	1404	C0L	C17-C16	4.63	1.50	1.39
11	D	1404	C0L	O36-C16	-4.53	1.18	1.33
11	D	1404	C0L	C17-C18	-4.05	1.35	1.45
11	D	1404	C0L	C13-C12	3.83	1.56	1.42
11	D	1404	C0L	C32-N31	3.66	1.43	1.37
11	D	1404	C0L	C20-C18	-3.66	1.34	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	D	1404	C0L	O34-C35	-3.05	1.38	1.45
11	D	1404	C0L	O34-C32	2.53	1.38	1.34
11	D	1404	C0L	C17-C23	-2.51	1.38	1.45
11	D	1404	C0L	O38-C08	-2.22	1.38	1.42
11	D	1404	C0L	O22-C23	-2.09	1.35	1.39

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	D	1404	C0L	O34-C32-N31	10.52	120.31	109.16
11	D	1404	C0L	C23-O22-C21	-6.85	118.02	122.22
11	D	1404	C0L	C35-O34-C32	-6.18	108.37	115.66
11	D	1404	C0L	O36-C16-C17	4.89	128.88	119.87
11	D	1404	C0L	C13-C12-C11	-4.75	120.00	127.30
11	D	1404	C0L	O33-C32-N31	-4.37	119.36	125.41
11	D	1404	C0L	C23-C17-C18	4.29	121.99	119.41
11	D	1404	C0L	O34-C32-O33	-2.89	120.33	124.58
11	D	1404	C0L	C28-C27-C25	-2.70	109.26	114.39
11	D	1404	C0L	O19-C18-C17	-2.59	119.31	122.97
11	D	1404	C0L	C10-C09-C08	-2.23	111.42	114.46
11	D	1404	C0L	O22-C23-O24	2.15	119.07	115.20

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
11	D	1404	C0L	C05-C06-C08-C09
11	D	1404	C0L	C07-C06-C08-C09
11	D	1404	C0L	C13-C14-C16-O36
11	D	1404	C0L	C15-C14-C16-O36
11	D	1404	C0L	C14-C16-C17-C18
11	D	1404	C0L	C14-C16-C17-C23
11	D	1404	C0L	O36-C16-C17-C18
11	D	1404	C0L	O36-C16-C17-C23
11	D	1404	C0L	C20-C21-C25-C26
11	D	1404	C0L	O22-C21-C25-C26
11	D	1404	C0L	O22-C21-C25-C27
11	D	1404	C0L	N31-C32-O34-C35
11	D	1404	C0L	O33-C32-O34-C35
11	D	1404	C0L	O34-C32-N31-C30
11	D	1404	C0L	C07-C06-C08-O38
11	D	1404	C0L	O33-C32-N31-C30

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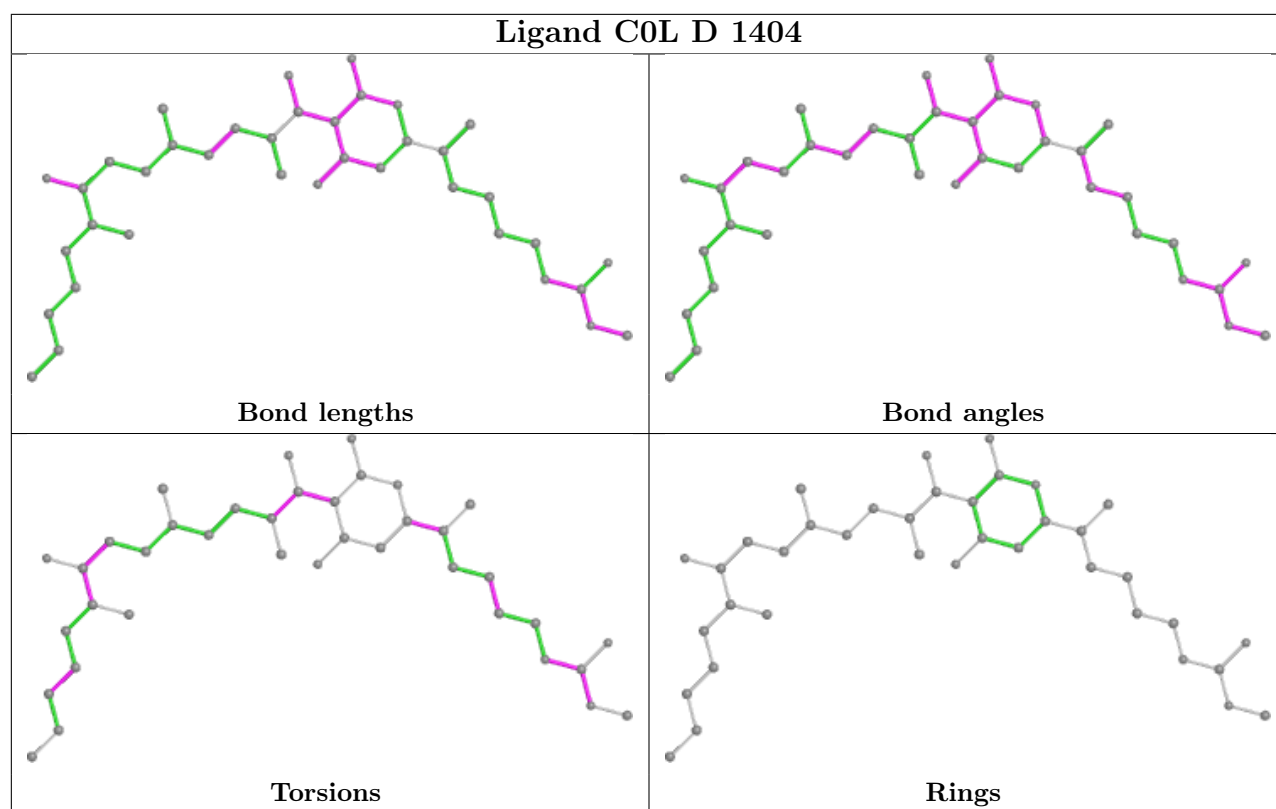
Mol	Chain	Res	Type	Atoms
11	D	1404	C0L	C05-C06-C08-O38
11	D	1404	C0L	C02-C03-C04-C05
11	D	1404	C0L	C27-C28-C29-C30
11	D	1404	C0L	C06-C08-C09-C10

There are no ring outliers.

1 monomer is involved in 22 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	D	1404	C0L	22	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

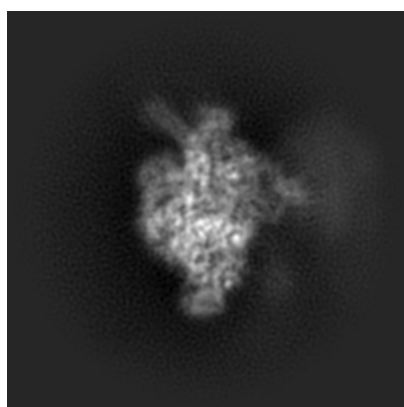
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9047. These allow visual inspection of the internal detail of the map and identification of artifacts.

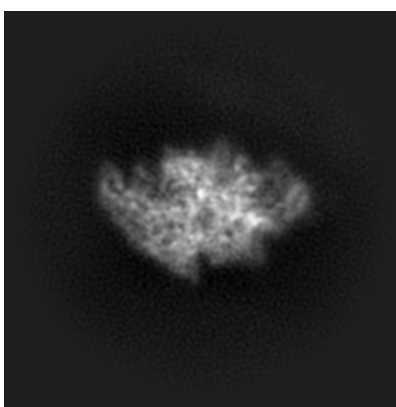
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

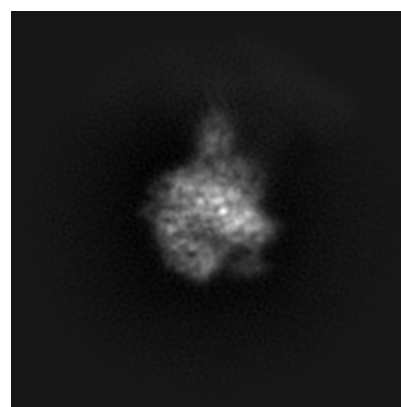
6.1.1 Primary map



X



Y

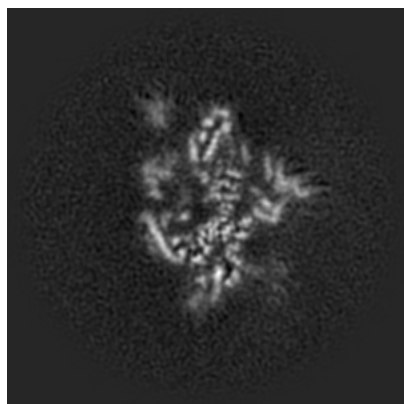


Z

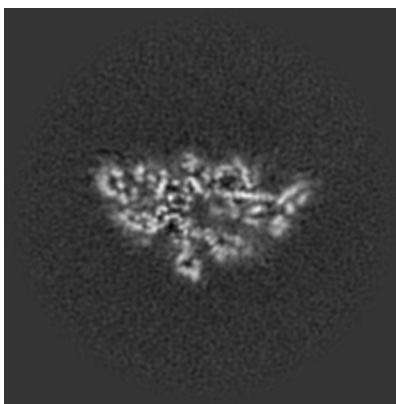
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

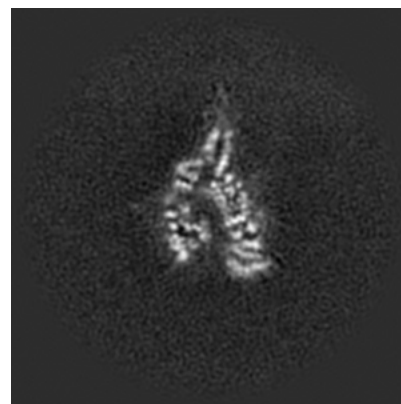
6.2.1 Primary map



X Index: 128



Y Index: 128

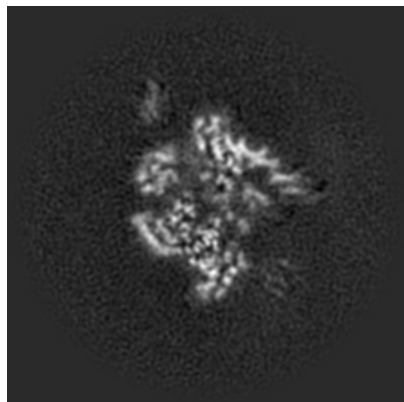


Z Index: 128

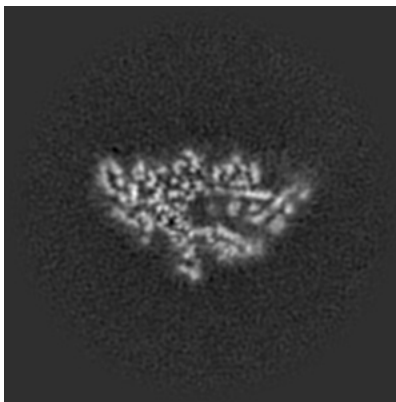
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

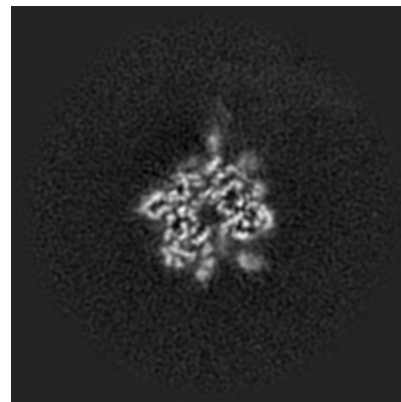
6.3.1 Primary map



X Index: 122



Y Index: 126

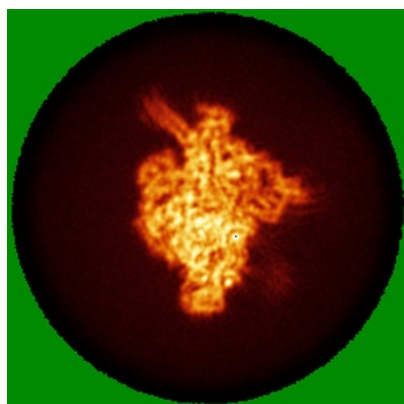


Z Index: 119

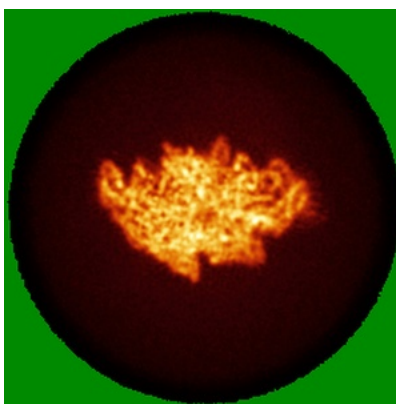
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

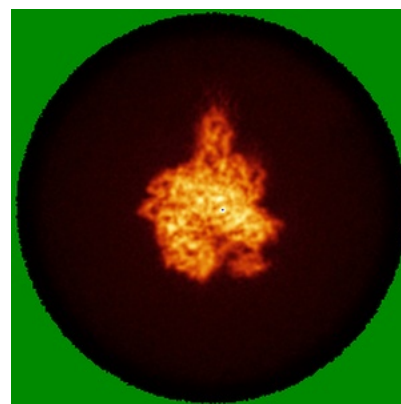
6.4.1 Primary map



X



Y

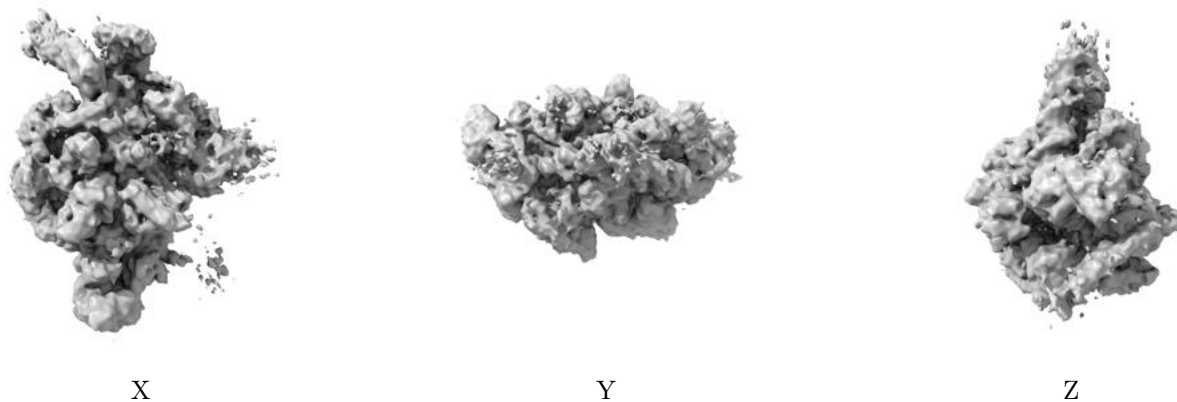


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.3. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

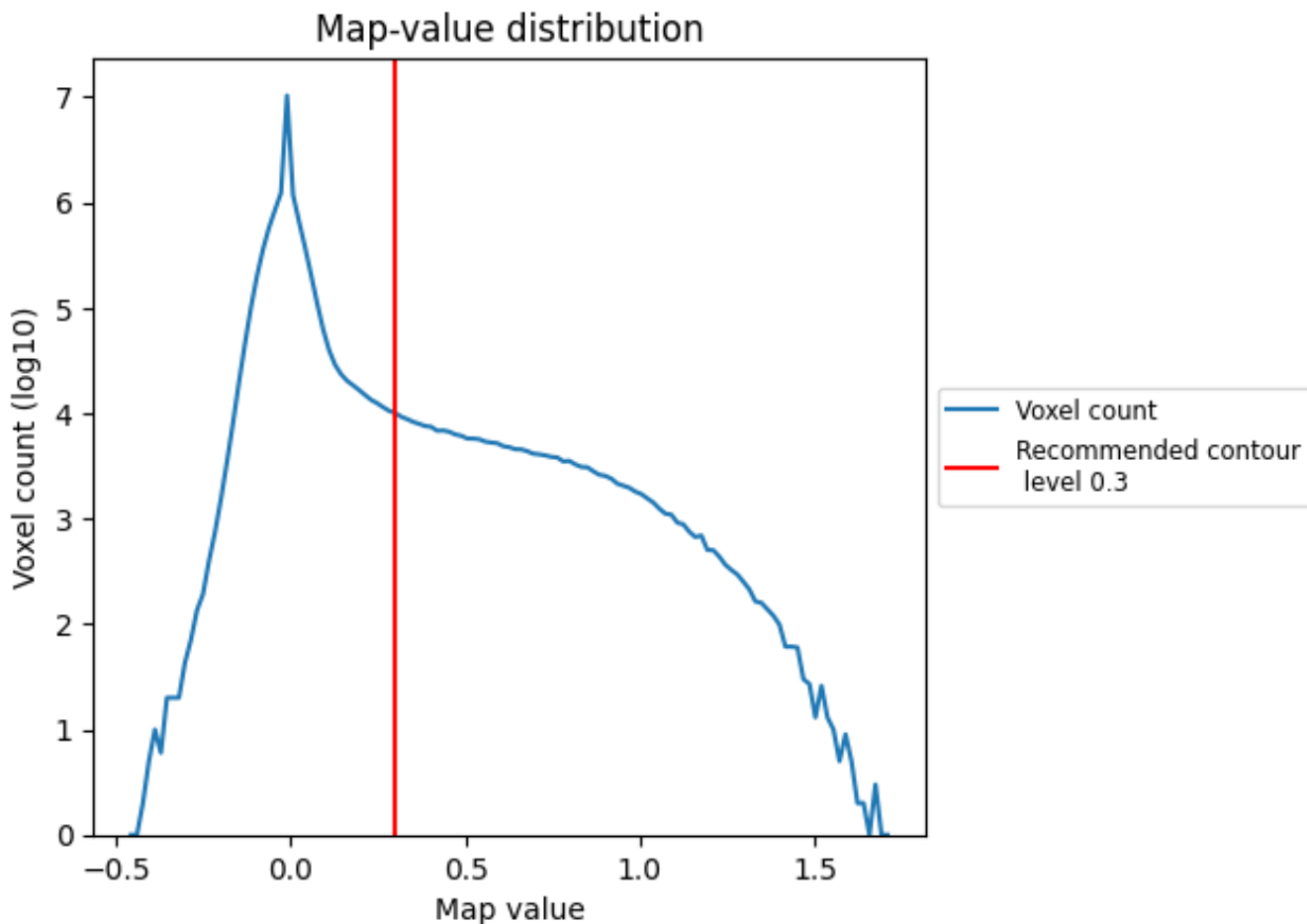
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

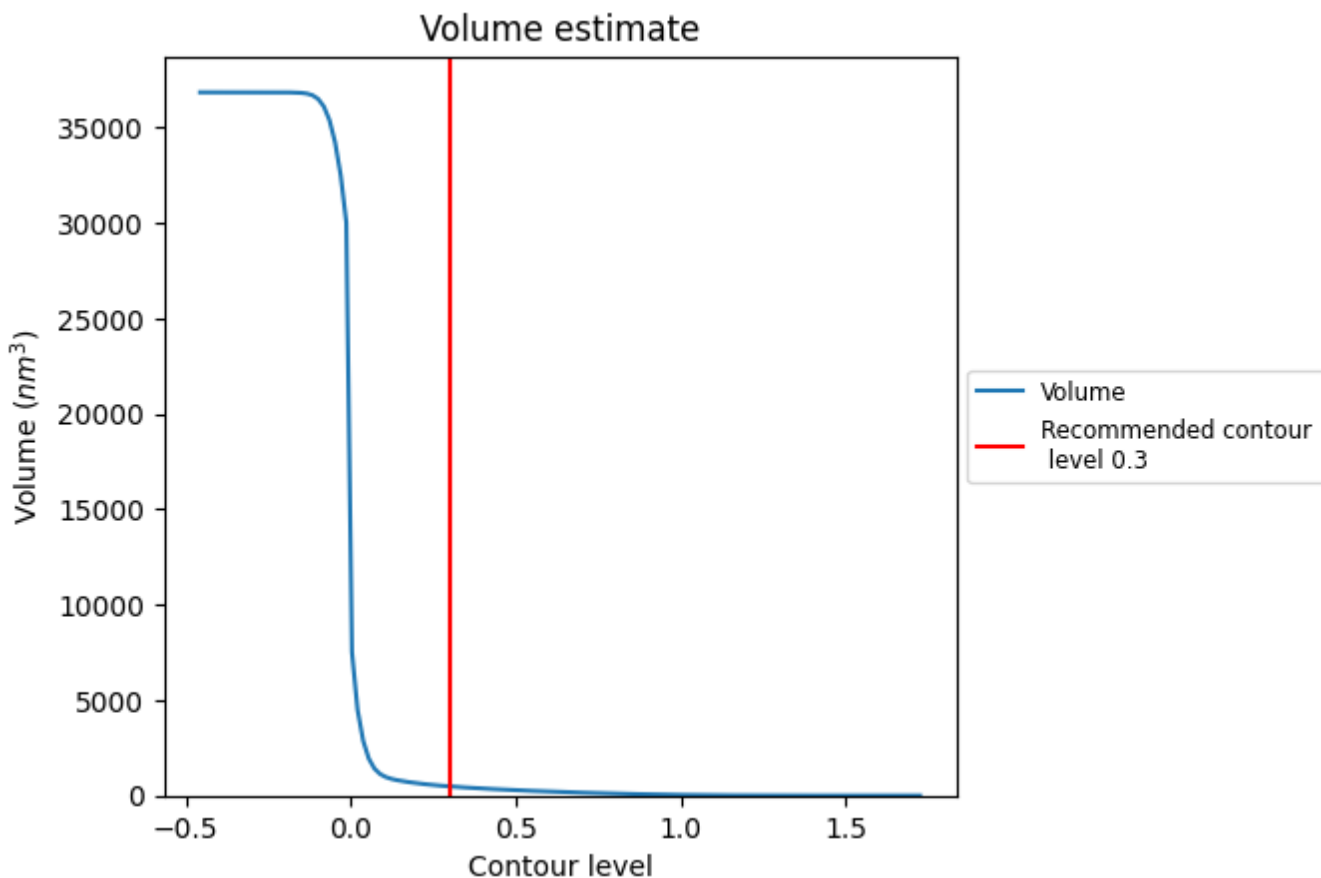
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

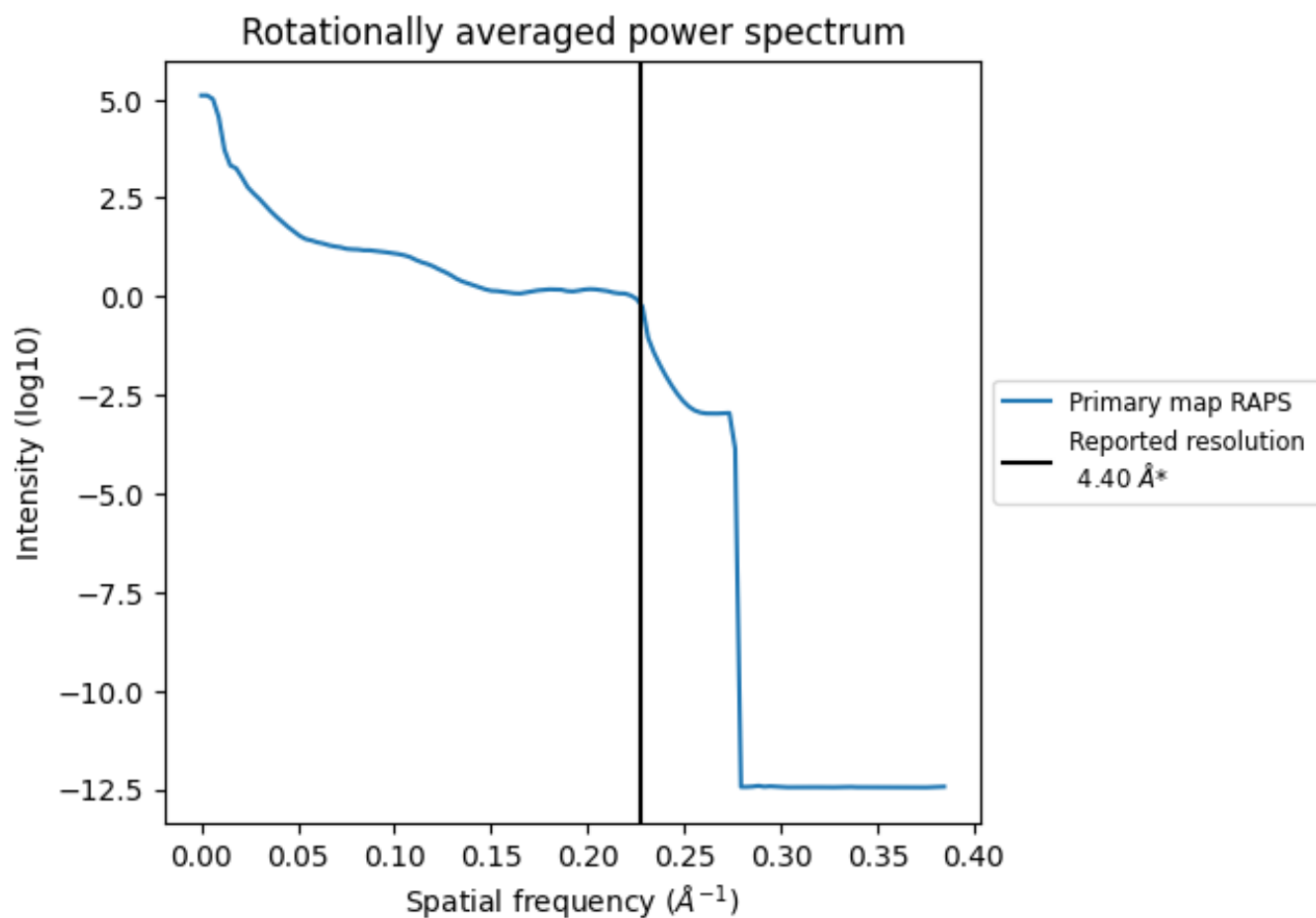
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 480 nm³; this corresponds to an approximate mass of 434 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.227 Å⁻¹

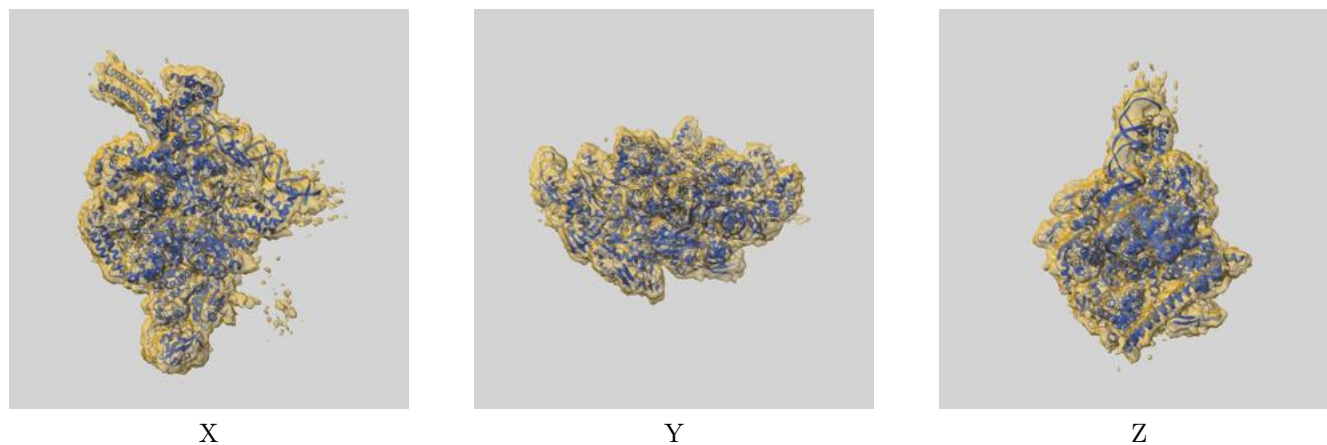
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-9047 and PDB model 6M7J. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlay [i](#)



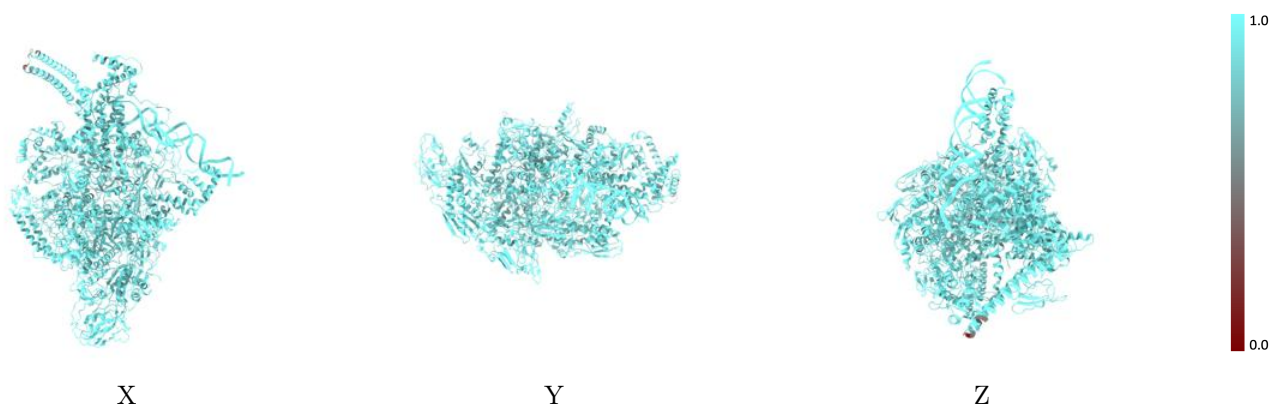
The images above show the 3D surface view of the map at the recommended contour level 0.3 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



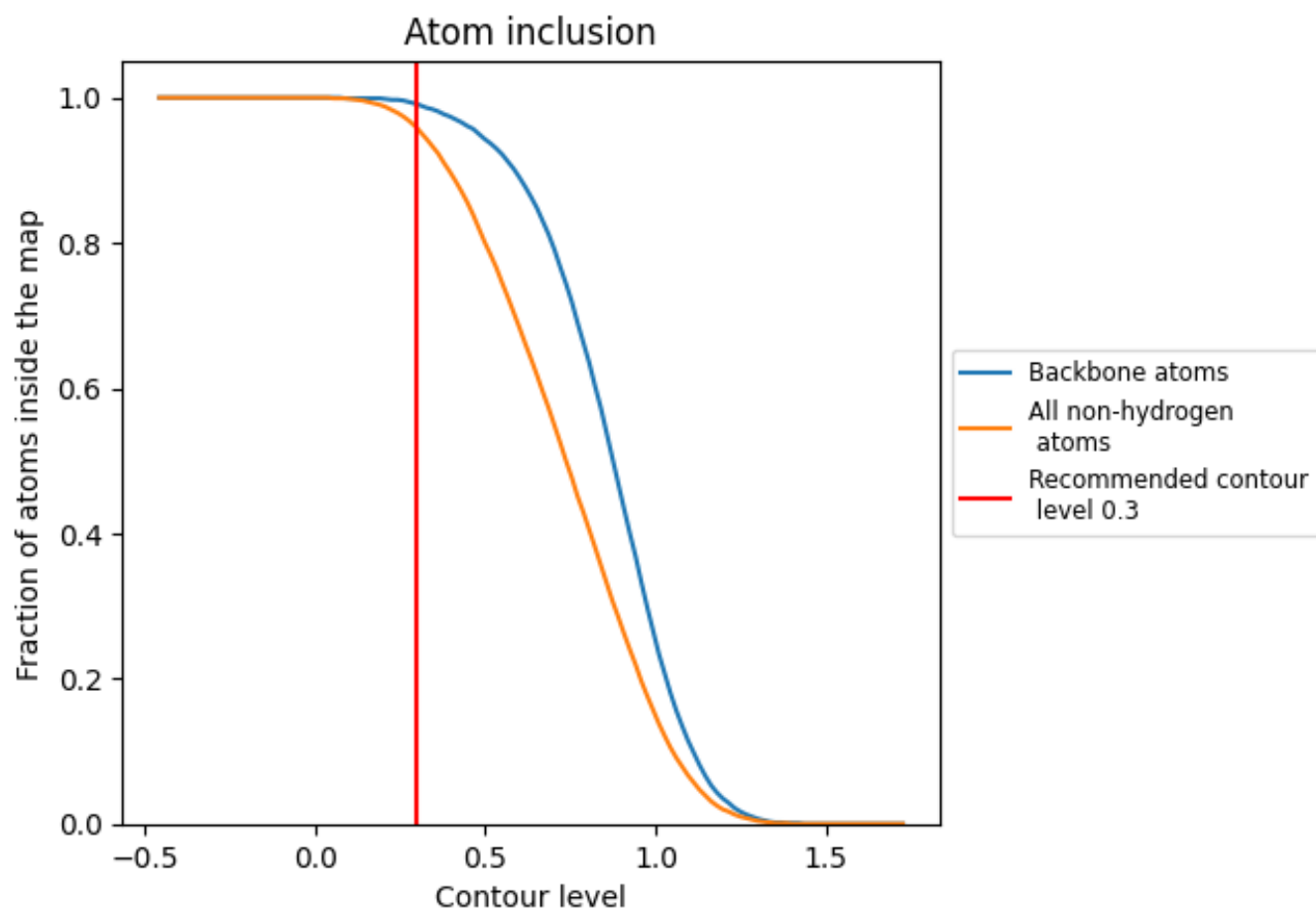
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.3).





















9.4 Atom inclusion [i](#)



At the recommended contour level, 99% of all backbone atoms, 96% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.3) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9580	 0.2970
A	 0.9670	 0.3200
B	 0.9710	 0.3000
C	 0.9580	 0.3070
D	 0.9540	 0.2960
E	 0.9640	 0.3080
F	 0.9460	 0.2500
J	 0.9540	 0.2830
O	 0.9950	 0.3060
P	 0.9980	 0.2990

