



Full wwPDB EM Validation Report ⓘ

Nov 20, 2022 – 10:48 am GMT

PDB ID : 6I1X
EMDB ID : EMD-0326
Title : Aeromonas hydrophila ExeD
Authors : Contreras-Martel, C.; Farias Estrozi, L.
Deposited on : 2018-10-30
Resolution : 3.70 Å (reported)
Based on initial model : 5WQ7

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.dev43
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

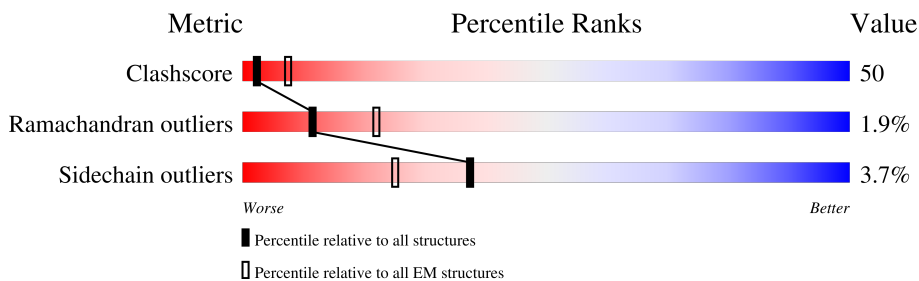
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.70 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.





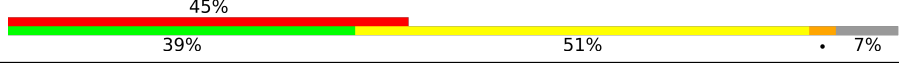
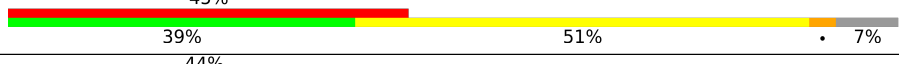
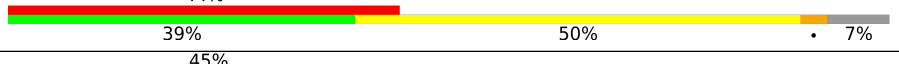
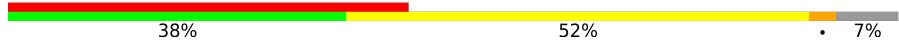
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	524	<div style="display: flex; justify-content: space-between; align-items: center;"> 44% </div>
1	B	524	<div style="display: flex; justify-content: space-between; align-items: center;"> 45% </div>
1	C	524	<div style="display: flex; justify-content: space-between; align-items: center;"> 45% </div>
1	D	524	<div style="display: flex; justify-content: space-between; align-items: center;"> 45% </div>
1	E	524	<div style="display: flex; justify-content: space-between; align-items: center;"> 45% </div>
1	F	524	<div style="display: flex; justify-content: space-between; align-items: center;"> 47% </div>
1	G	524	<div style="display: flex; justify-content: space-between; align-items: center;"> 46% </div>
1	H	524	<div style="display: flex; justify-content: space-between; align-items: center;"> 46% </div>

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Mol	Chain	Length	Quality of chain
1	I	524	 <p>47% 36% 53% • 7%</p>
1	J	524	 <p>44% 40% 49% • 7%</p>
1	K	524	 <p>45% 39% 51% • 7%</p>
1	L	524	 <p>45% 39% 51% • 7%</p>
1	M	524	 <p>45% 39% 51% • 7%</p>
1	N	524	 <p>44% 39% 50% • 7%</p>
1	O	524	 <p>45% 38% 52% • 7%</p>

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 54915 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Type II secretion system protein D.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	486	3661	2277	645	729	10	0	0
1	B	486	3661	2277	645	729	10	0	0
1	C	486	3661	2277	645	729	10	0	0
1	D	486	3661	2277	645	729	10	0	0
1	E	486	3661	2277	645	729	10	0	0
1	F	486	3661	2277	645	729	10	0	0
1	G	486	3661	2277	645	729	10	0	0
1	H	486	3661	2277	645	729	10	0	0
1	I	486	3661	2277	645	729	10	0	0
1	J	486	3661	2277	645	729	10	0	0
1	K	486	3661	2277	645	729	10	0	0
1	L	486	3661	2277	645	729	10	0	0
1	M	486	3661	2277	645	729	10	0	0
1	N	486	3661	2277	645	729	10	0	0
1	O	486	3661	2277	645	729	10	0	0

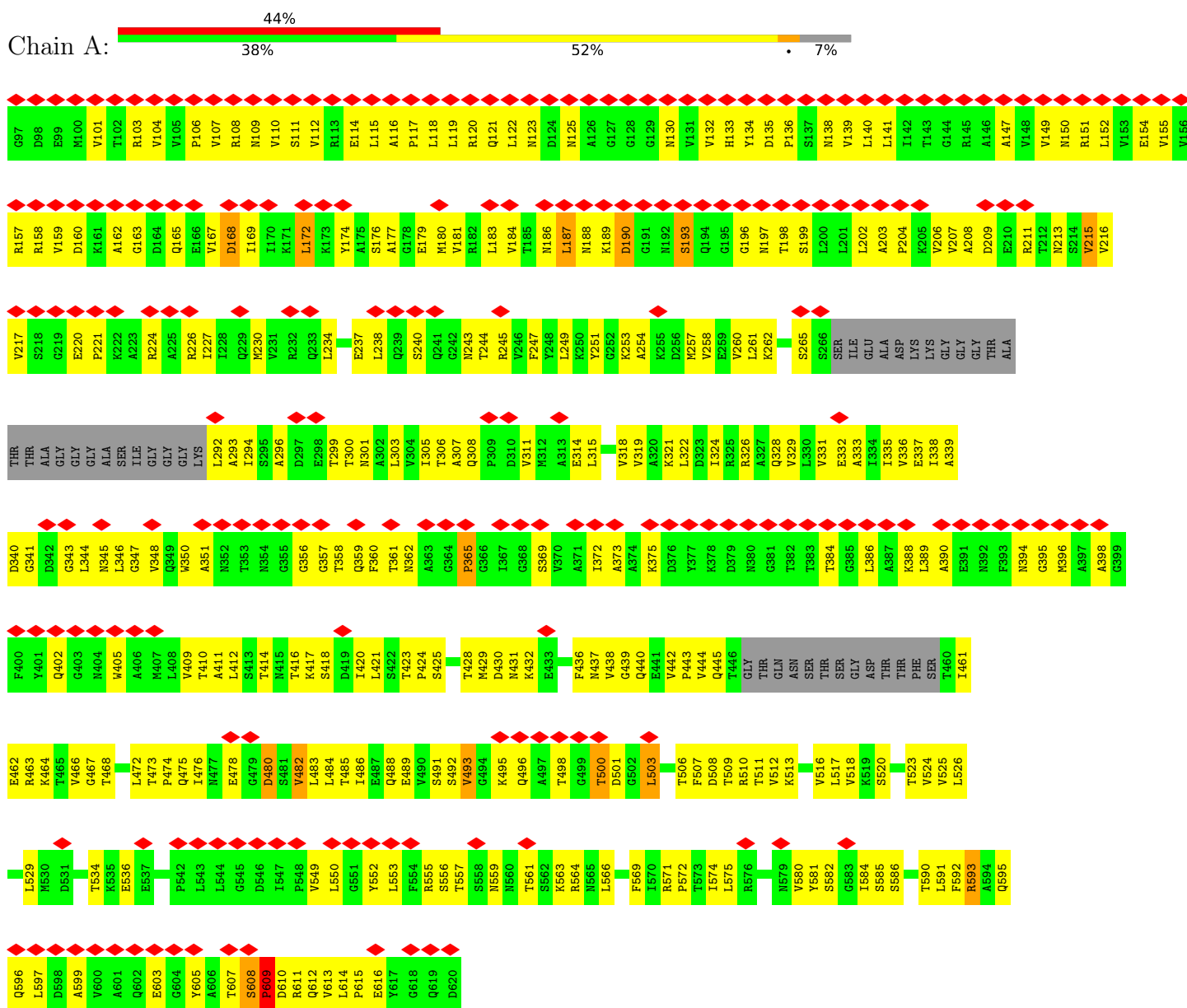
There are 30 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	237	GLU	ASP	conflict	UNP P31780
A	472	LEU	VAL	conflict	UNP P31780
B	237	GLU	ASP	conflict	UNP P31780
B	472	LEU	VAL	conflict	UNP P31780
C	237	GLU	ASP	conflict	UNP P31780
C	472	LEU	VAL	conflict	UNP P31780
D	237	GLU	ASP	conflict	UNP P31780
D	472	LEU	VAL	conflict	UNP P31780
E	237	GLU	ASP	conflict	UNP P31780
E	472	LEU	VAL	conflict	UNP P31780
F	237	GLU	ASP	conflict	UNP P31780
F	472	LEU	VAL	conflict	UNP P31780
G	237	GLU	ASP	conflict	UNP P31780
G	472	LEU	VAL	conflict	UNP P31780
H	237	GLU	ASP	conflict	UNP P31780
H	472	LEU	VAL	conflict	UNP P31780
I	237	GLU	ASP	conflict	UNP P31780
I	472	LEU	VAL	conflict	UNP P31780
J	237	GLU	ASP	conflict	UNP P31780
J	472	LEU	VAL	conflict	UNP P31780
K	237	GLU	ASP	conflict	UNP P31780
K	472	LEU	VAL	conflict	UNP P31780
L	237	GLU	ASP	conflict	UNP P31780
L	472	LEU	VAL	conflict	UNP P31780
M	237	GLU	ASP	conflict	UNP P31780
M	472	LEU	VAL	conflict	UNP P31780
N	237	GLU	ASP	conflict	UNP P31780
N	472	LEU	VAL	conflict	UNP P31780
O	237	GLU	ASP	conflict	UNP P31780
O	472	LEU	VAL	conflict	UNP P31780

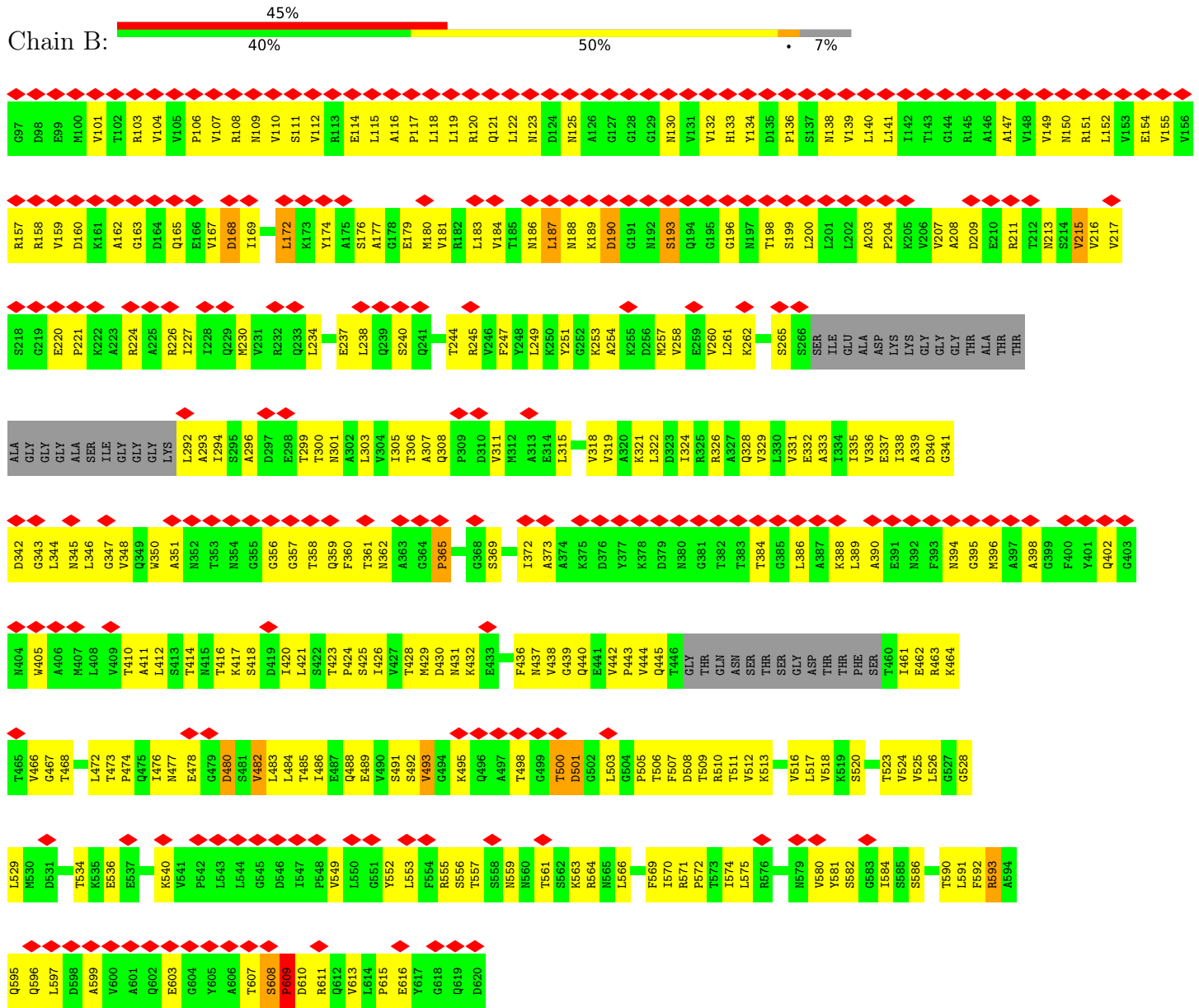
3 Residue-property plots

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.

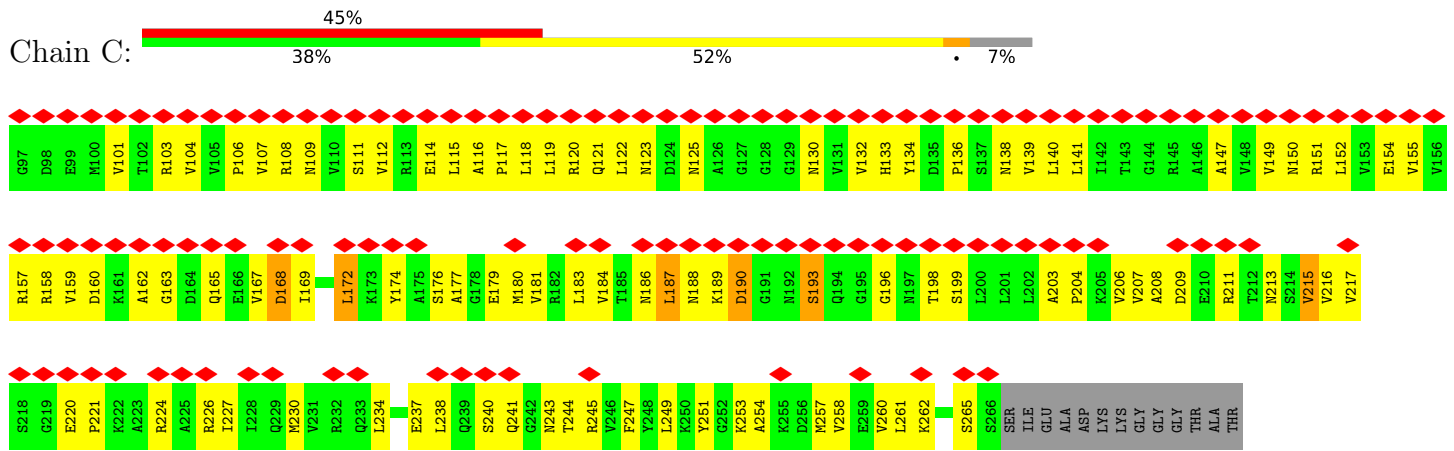
- Molecule 1: Type II secretion system protein D

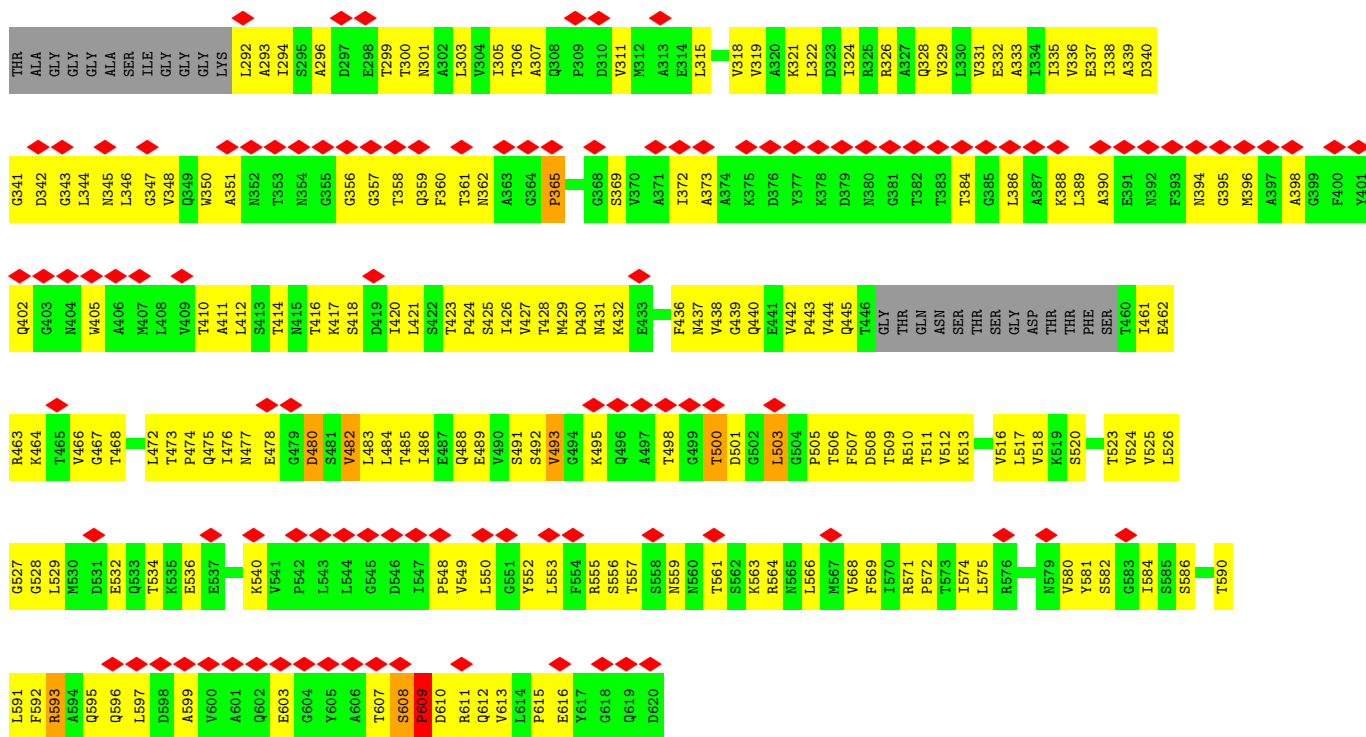


- Molecule 1: Type II secretion system protein D

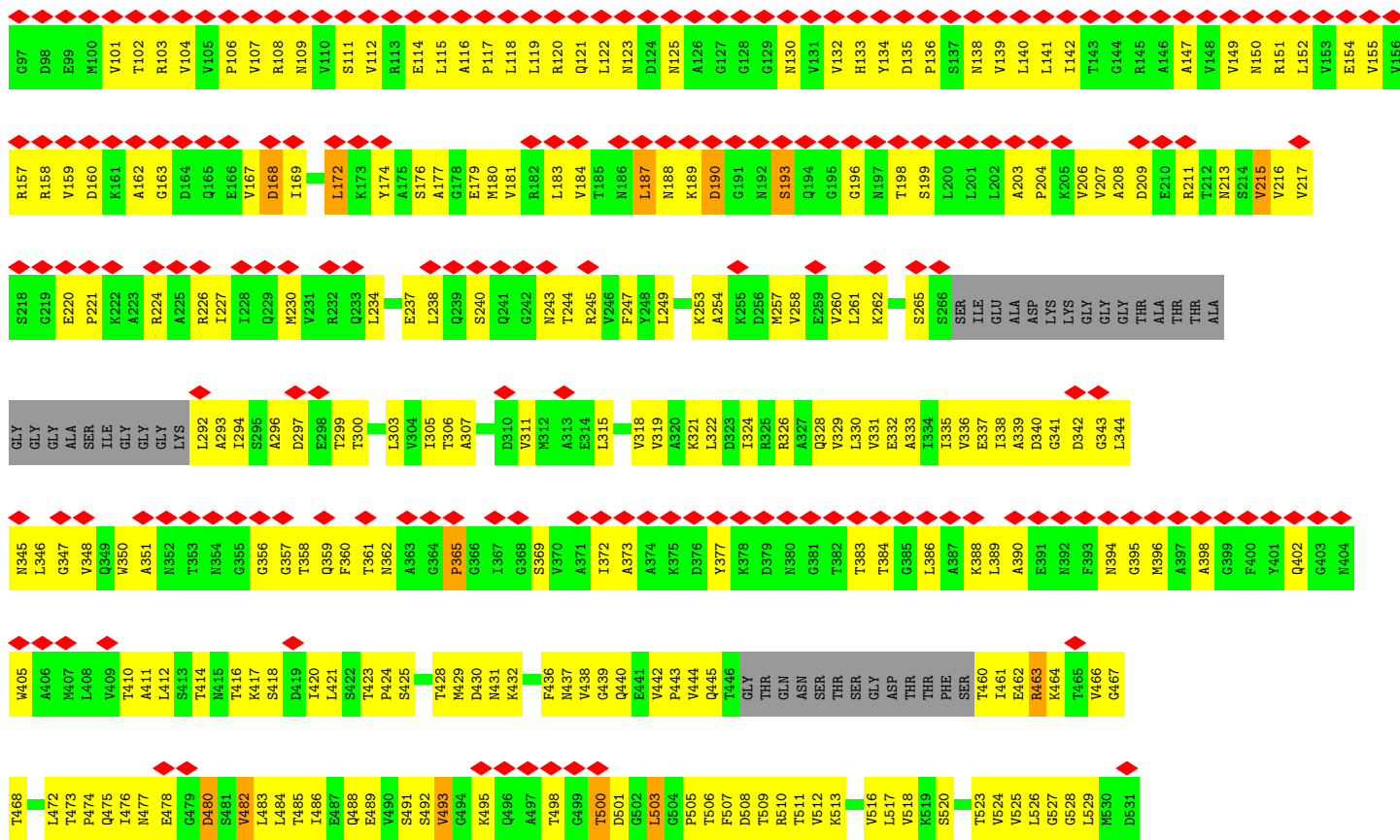


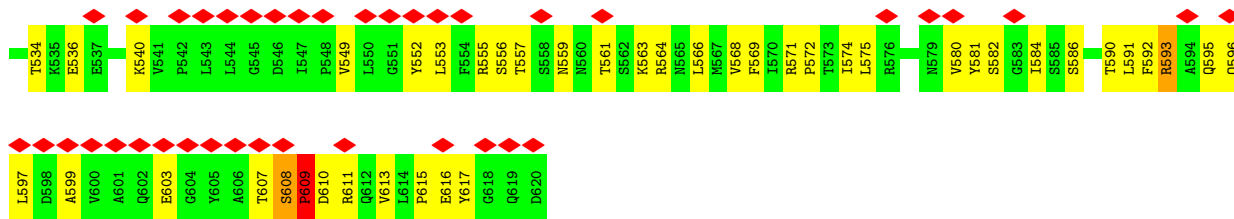
• Molecule 1: Type II secretion system protein D



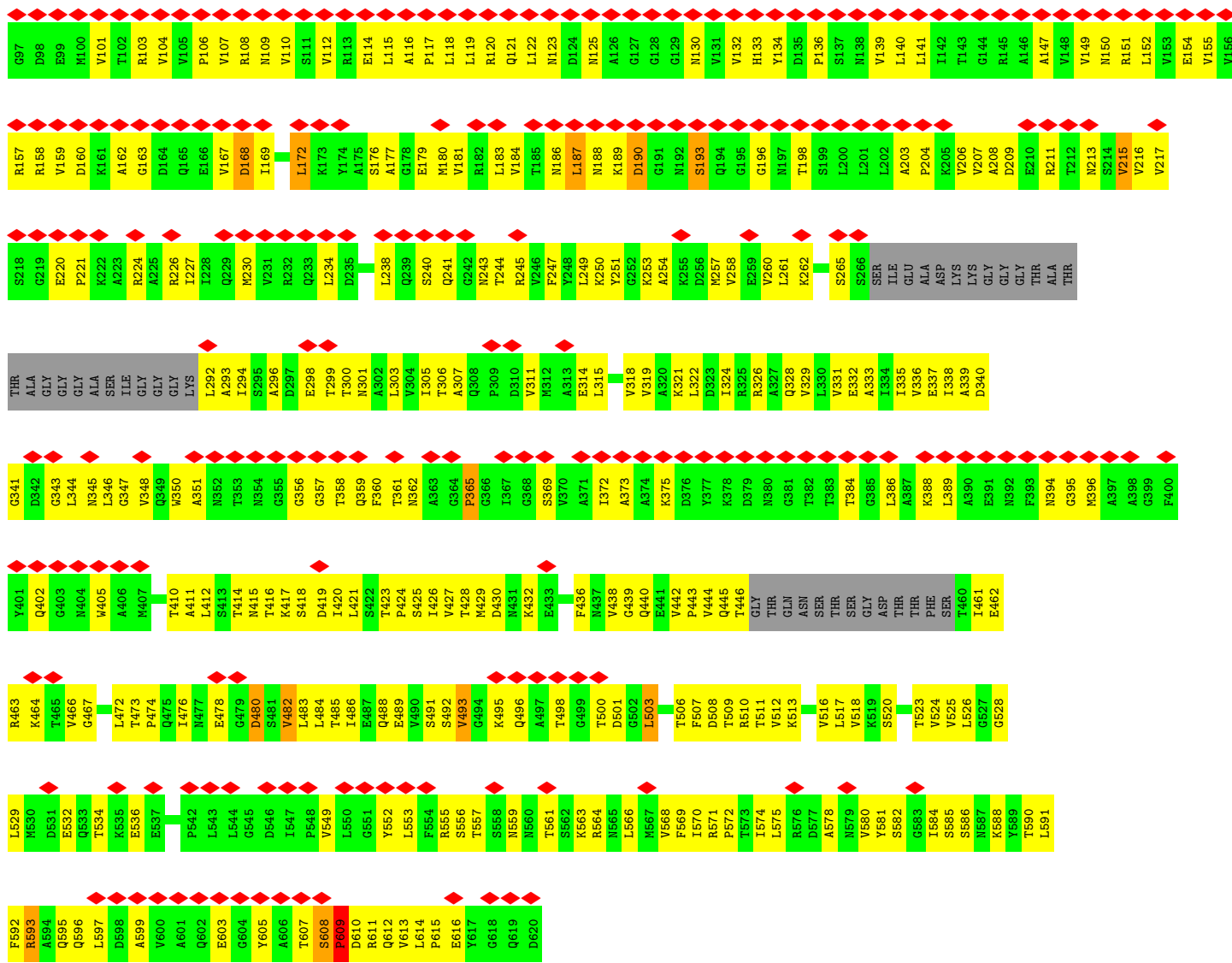
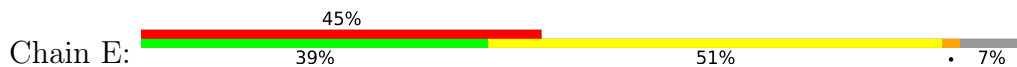


• Molecule 1: Type II secretion system protein D



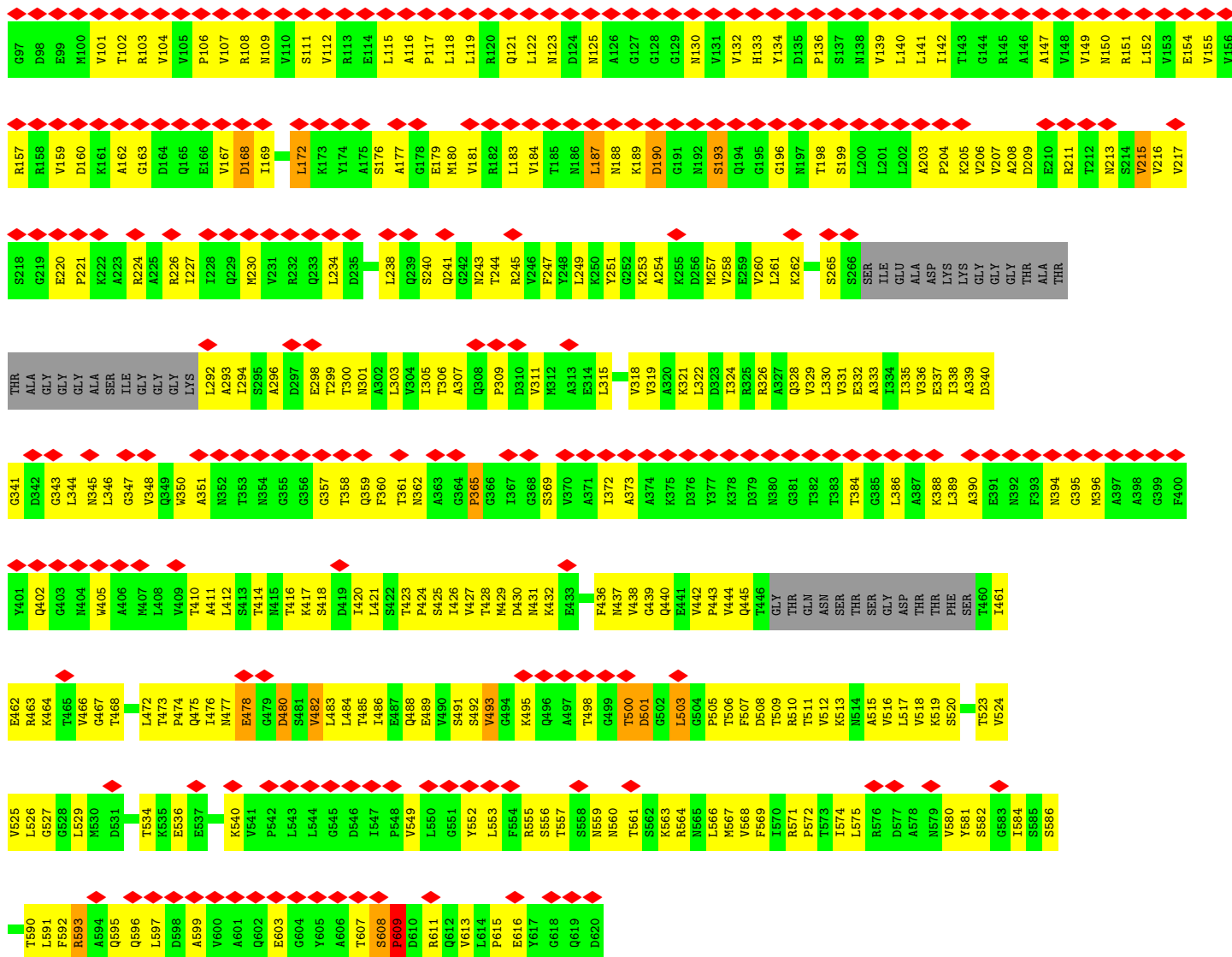


• Molecule 1: Type II secretion system protein D

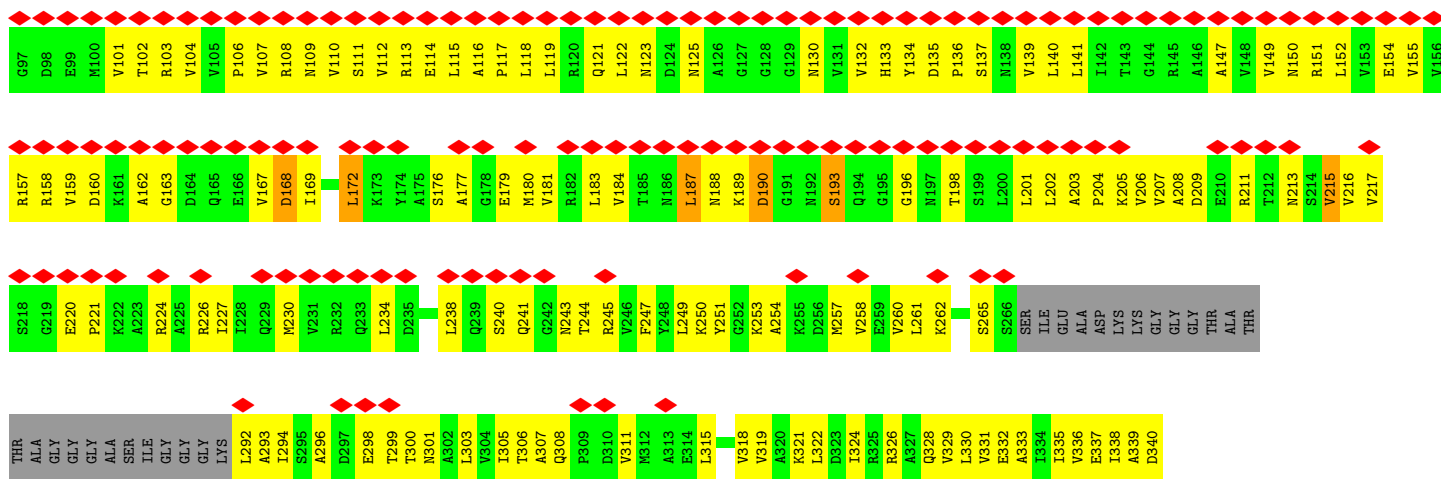
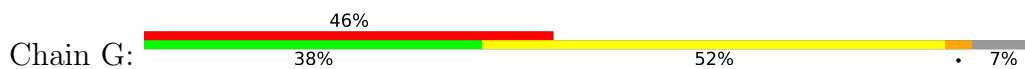


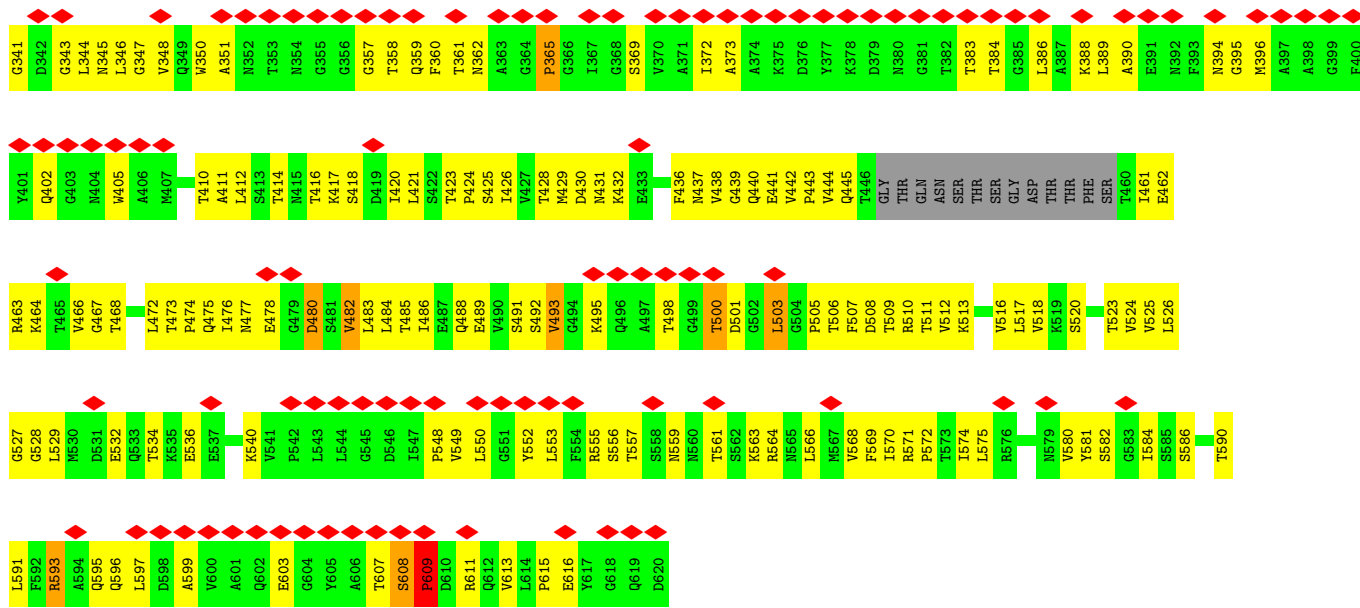
• Molecule 1: Type II secretion system protein D



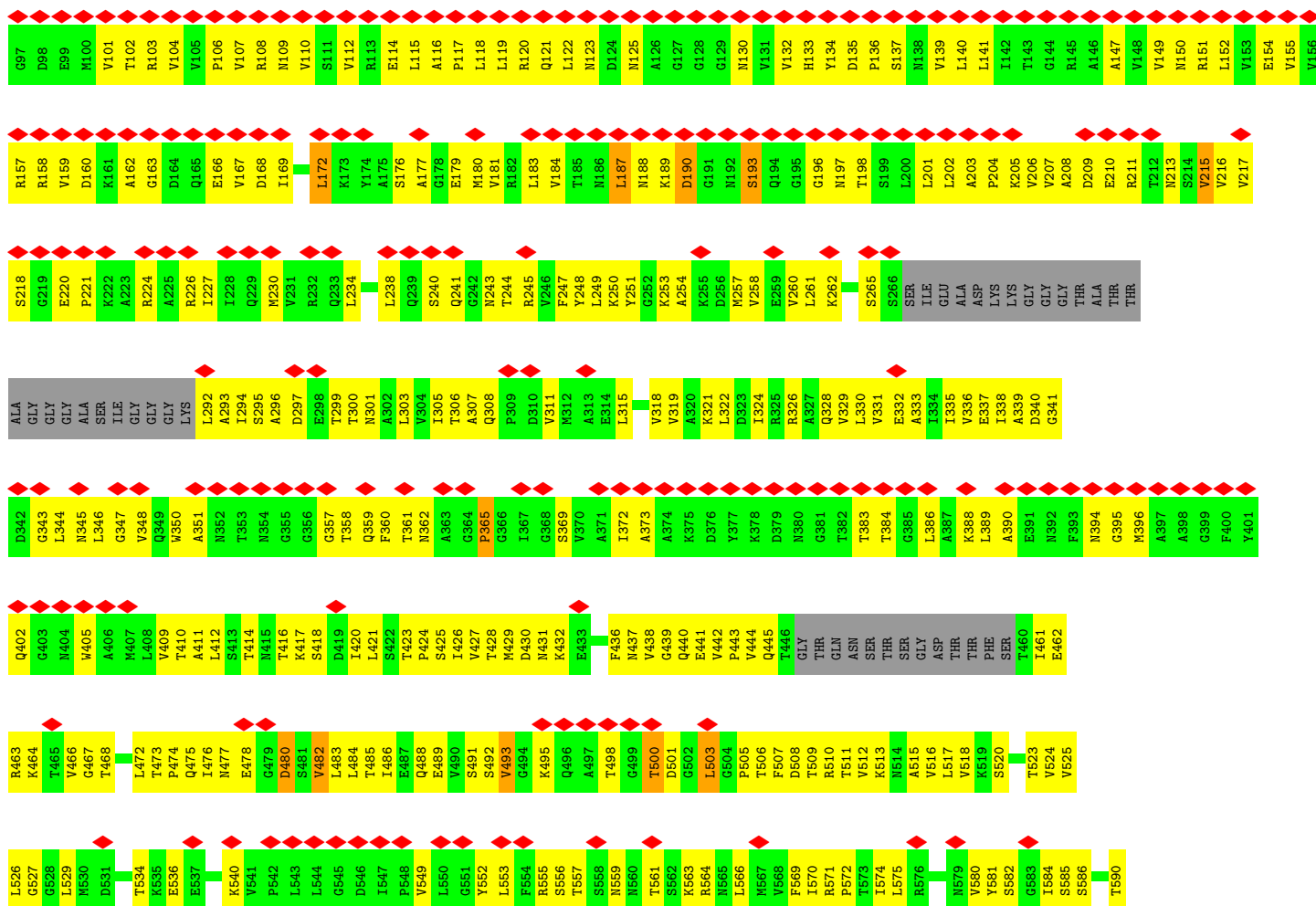


• Molecule 1: Type II secretion system protein D



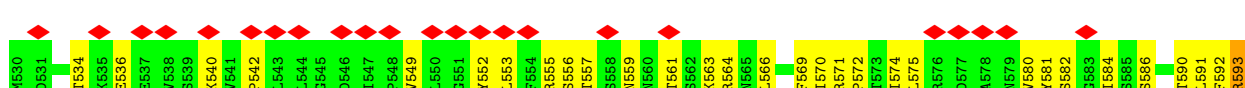
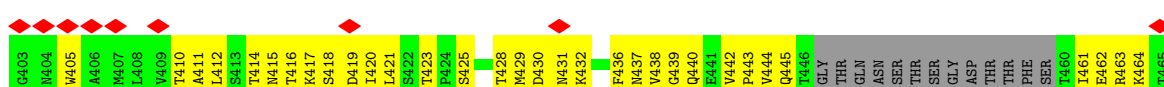
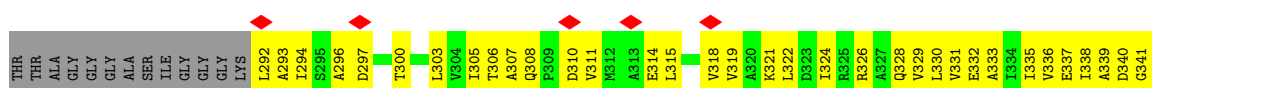
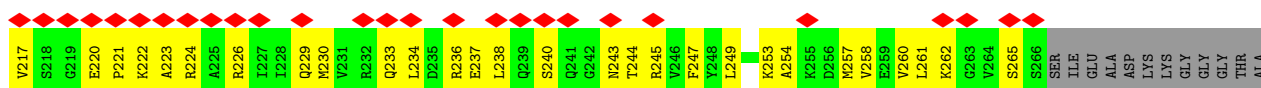
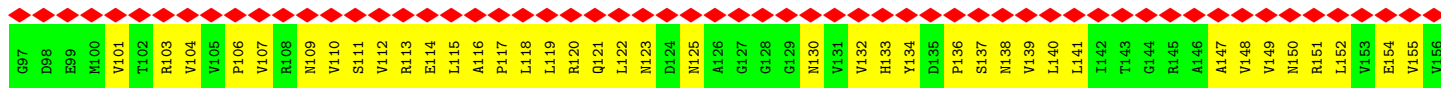


• Molecule 1: Type II secretion system protein D



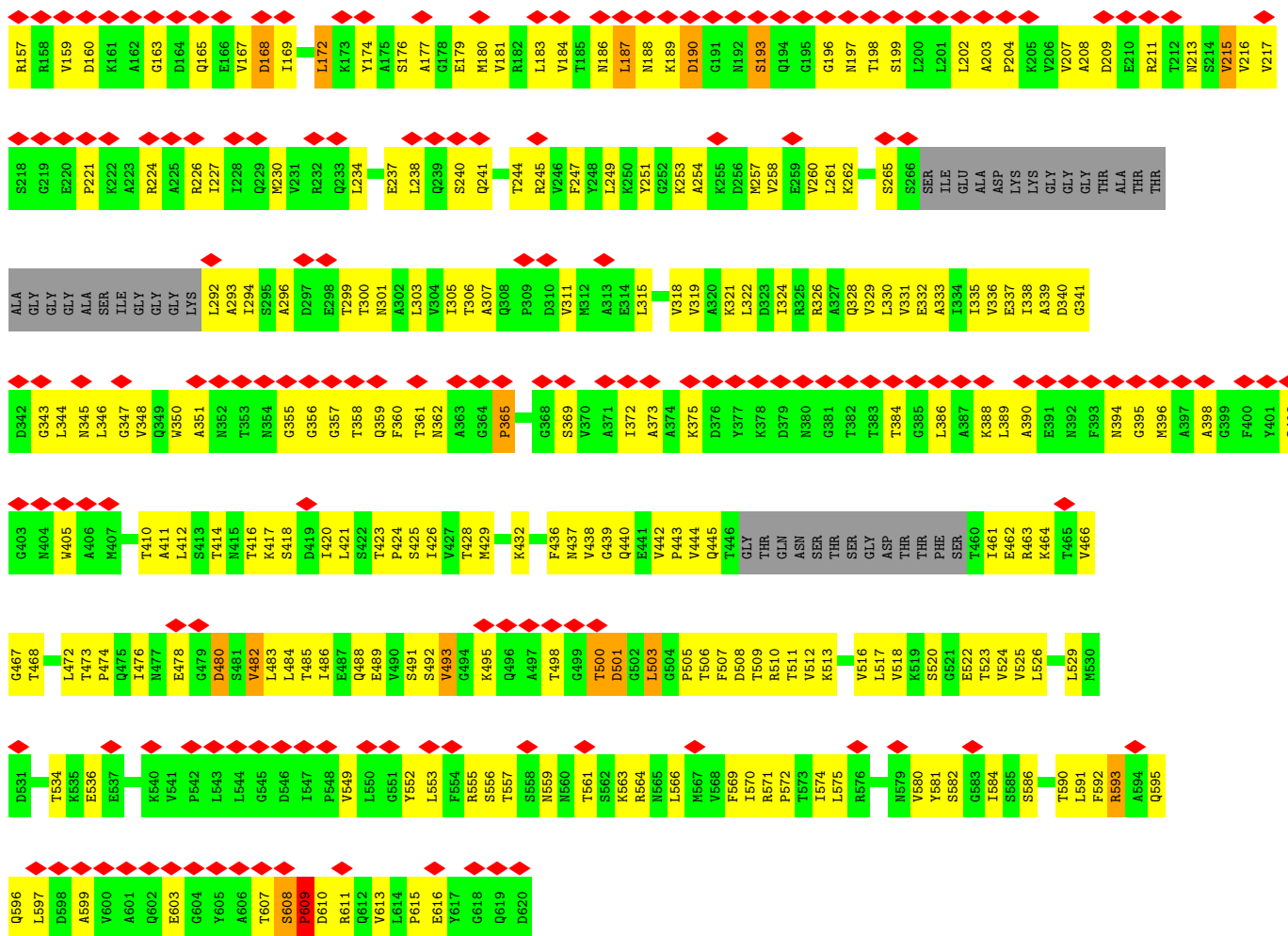


• Molecule 1: Type II secretion system protein D

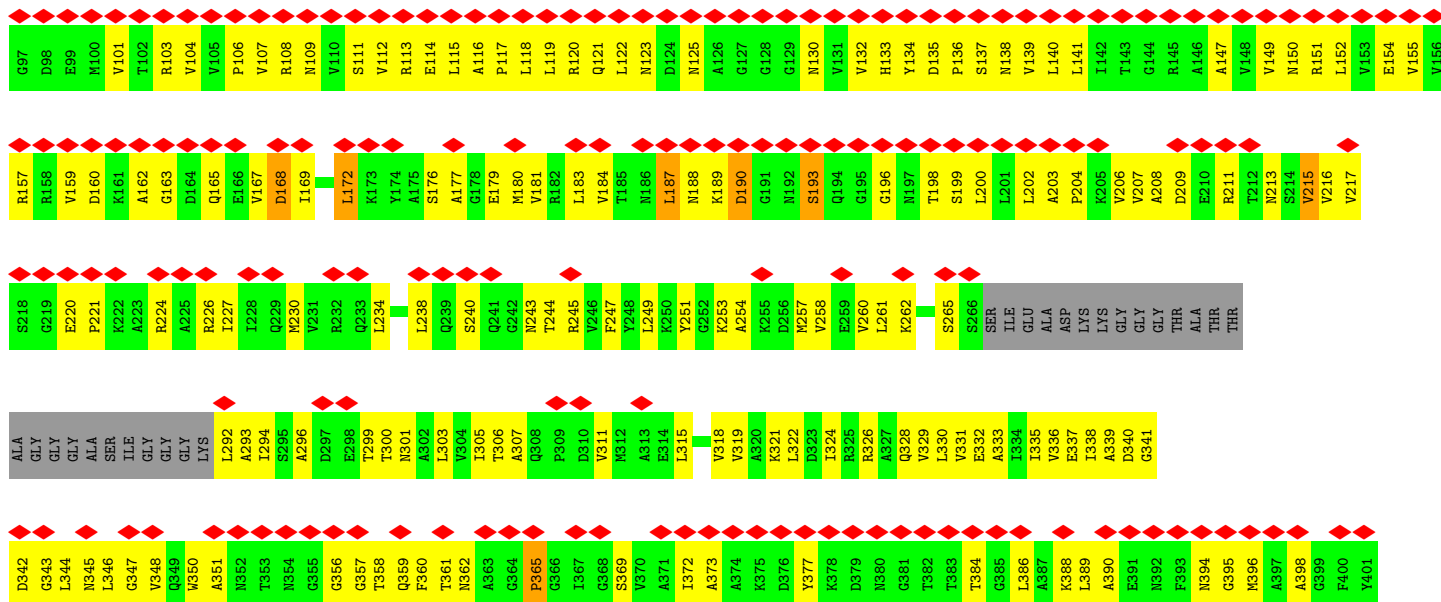
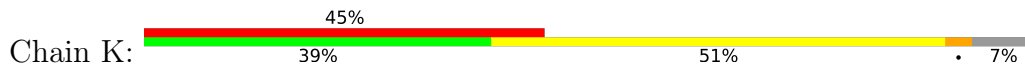


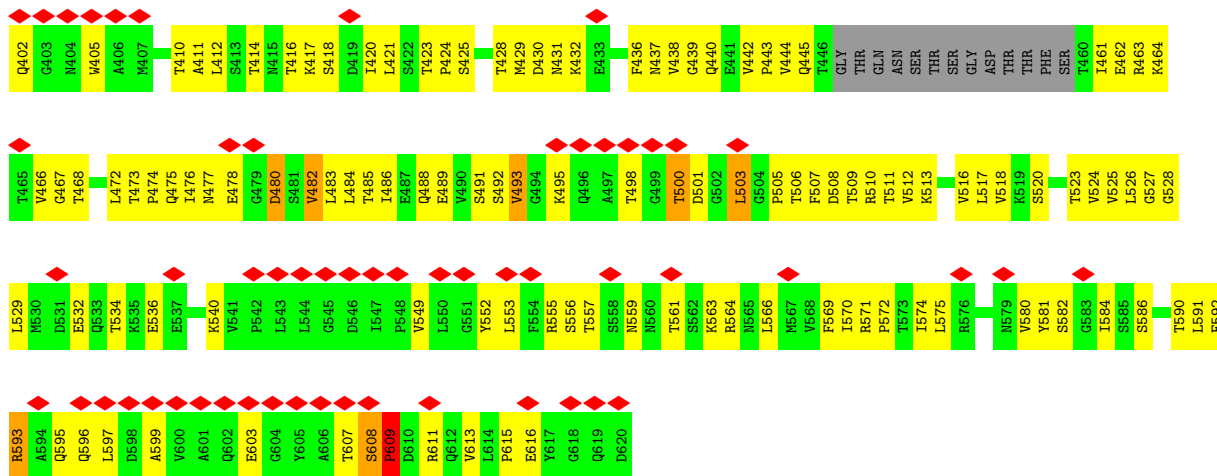
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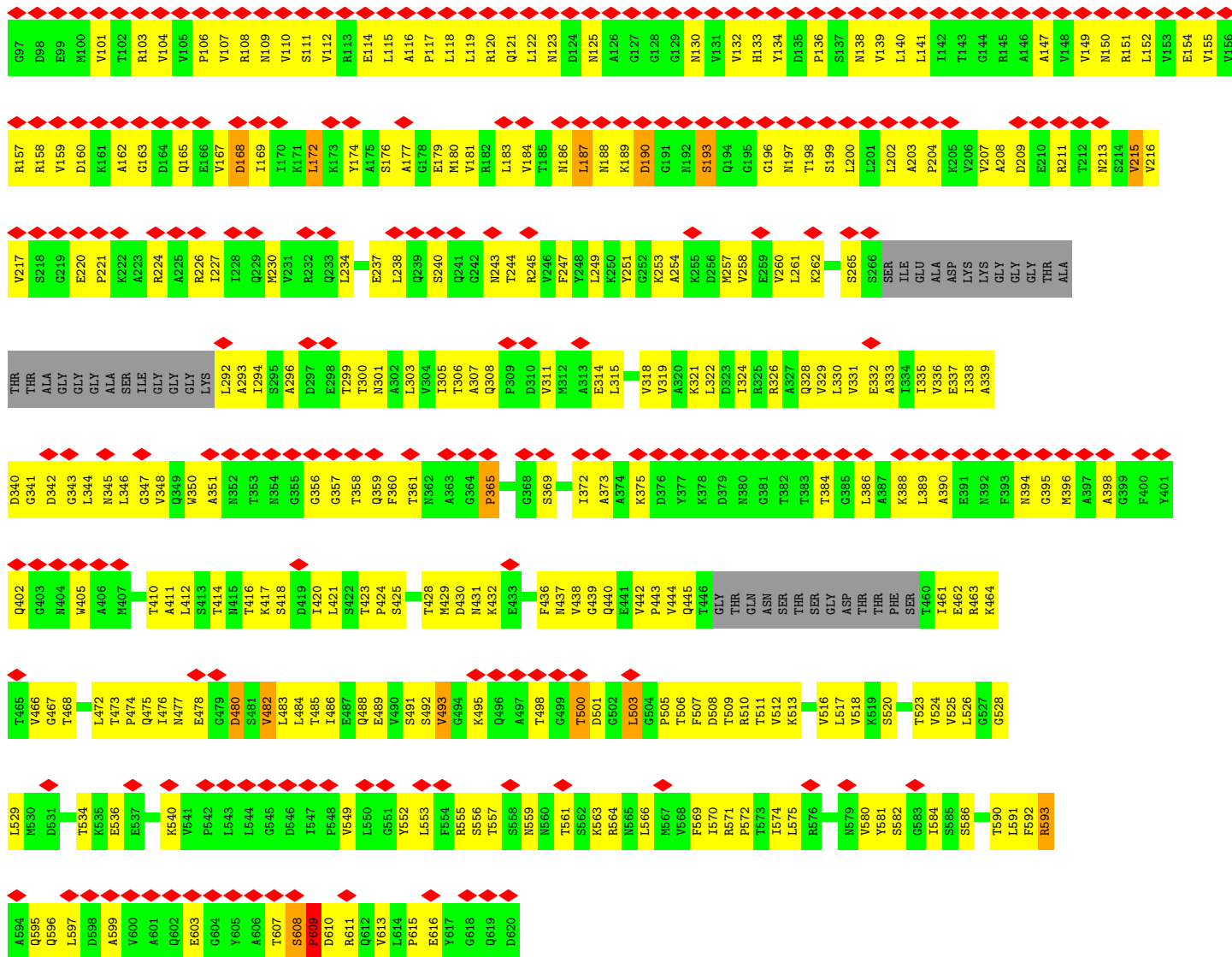
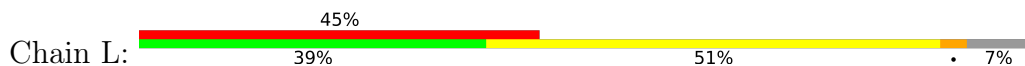


• Molecule 1: Type II secretion system protein D

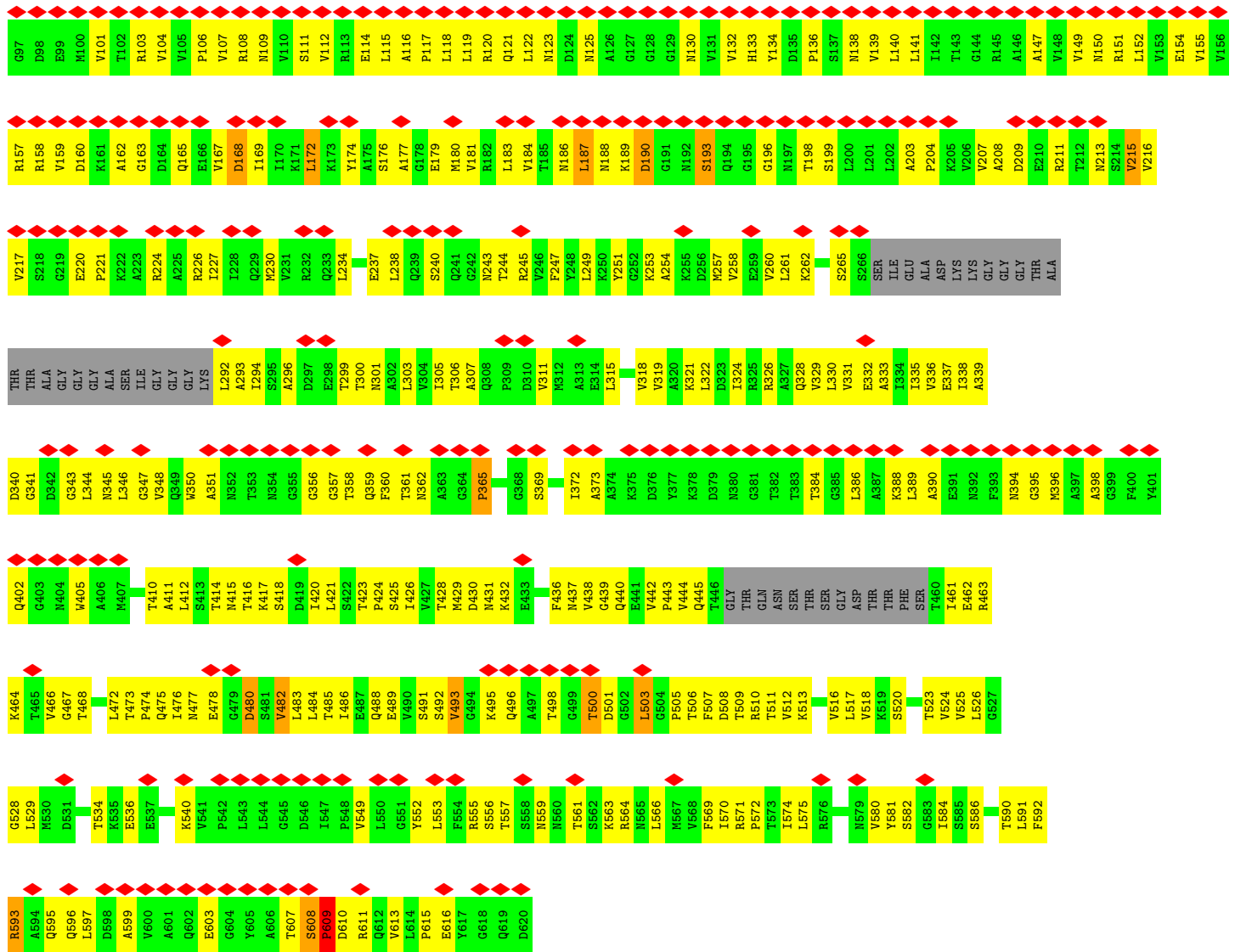




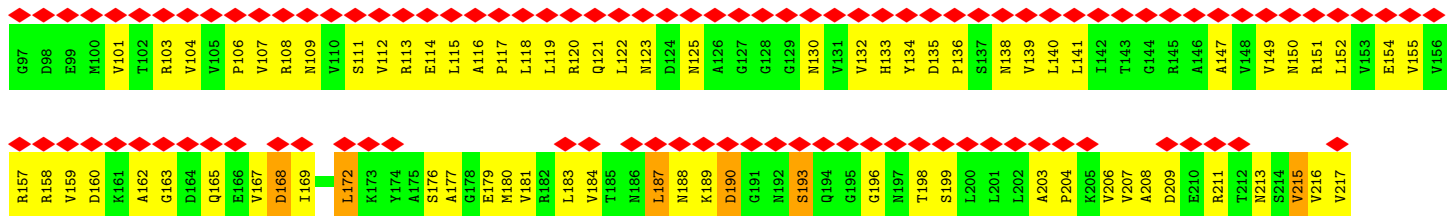
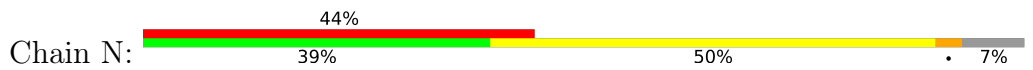
● Molecule 1: Type II secretion system protein D

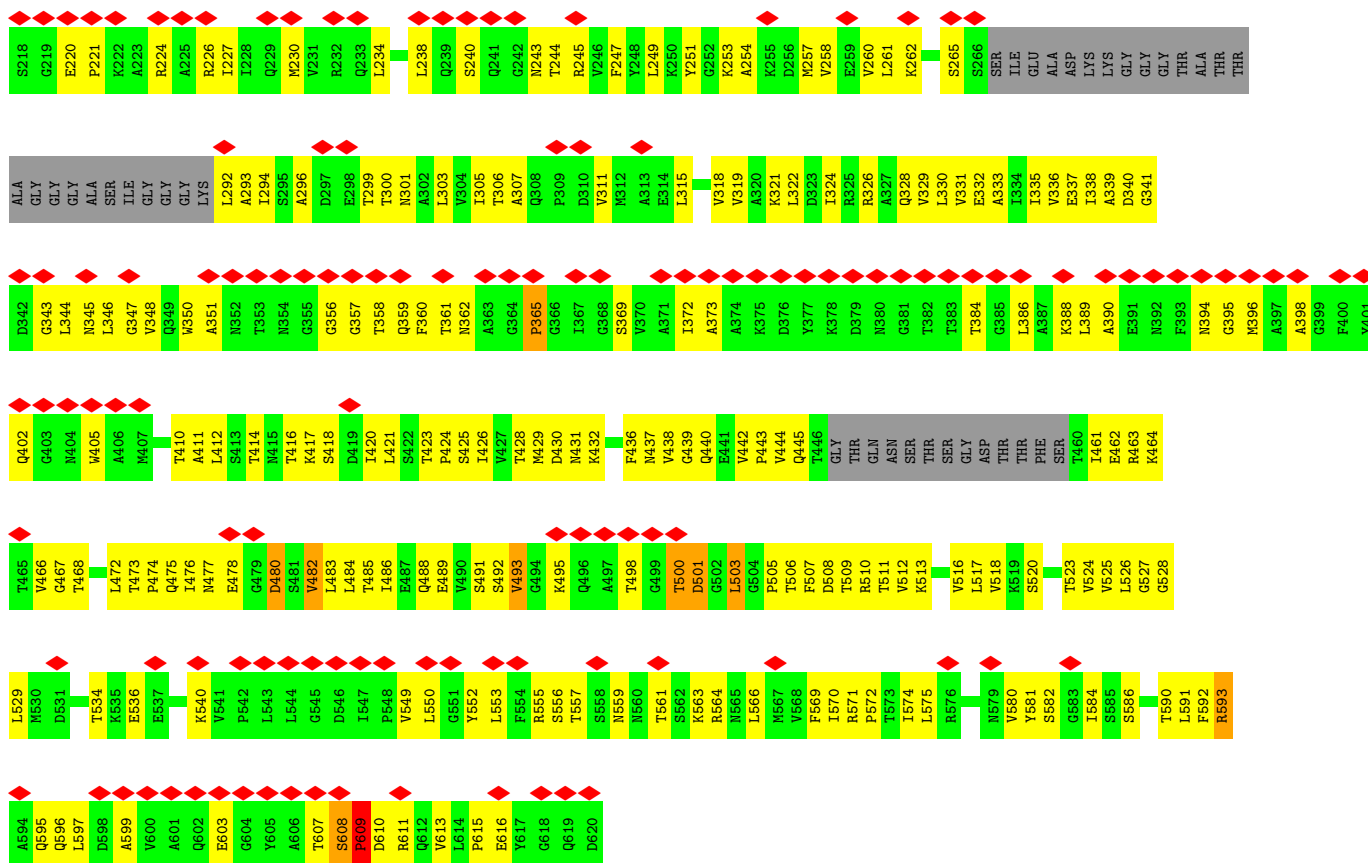


• Molecule 1: Type II secretion system protein D

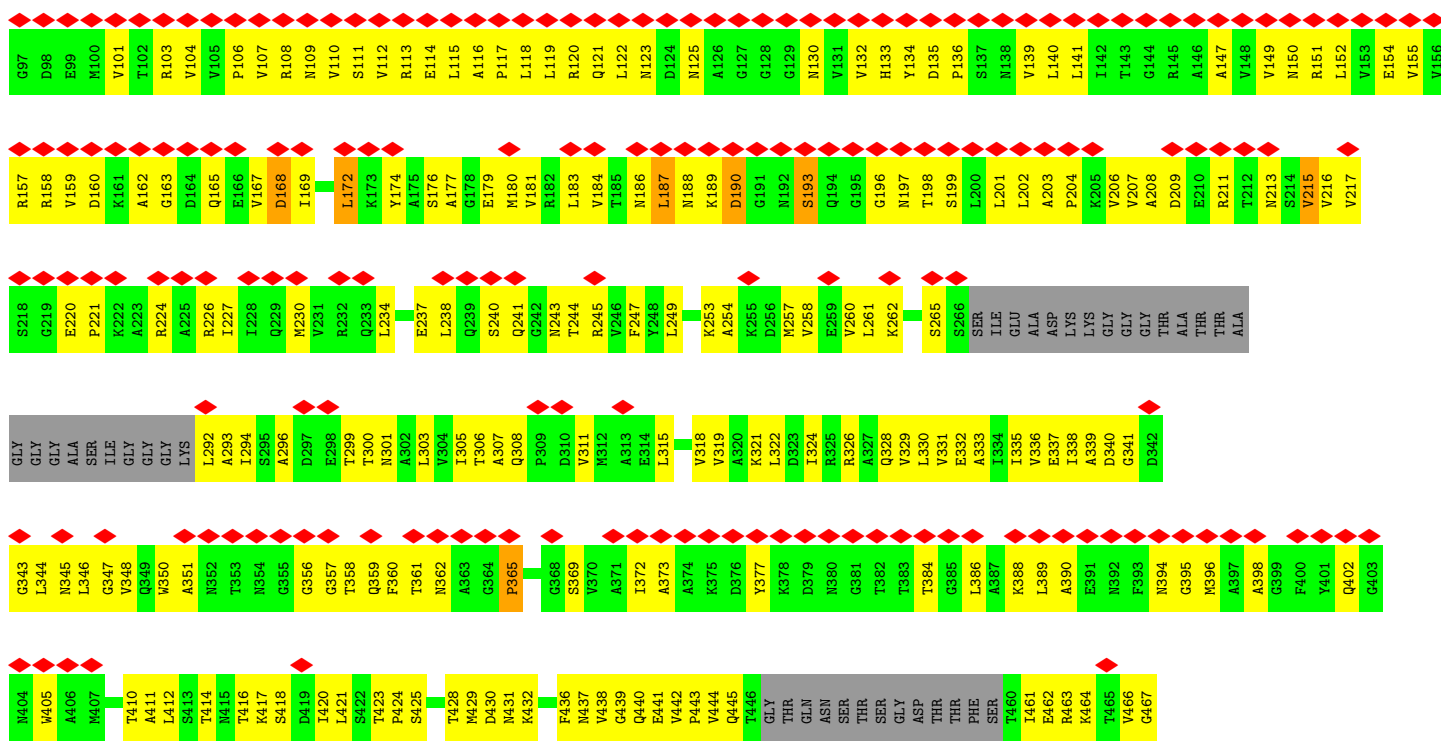
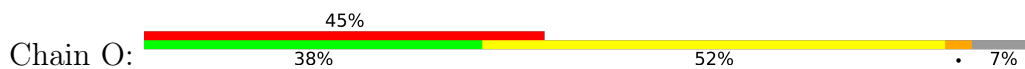


• Molecule 1: Type II secretion system protein D





• Molecule 1: Type II secretion system protein D





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C15	Depositor
Number of particles used	51960	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	41322	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.295	Depositor
Minimum map value	-0.163	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.009	Depositor
Recommended contour level	0.04595	Depositor
Map size (Å)	302.5, 302.5, 302.5	wwPDB
Map dimensions	250, 250, 250	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.21, 1.21, 1.21	Depositor

5 Model quality i

5.1 Standard geometry i

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	0.64	0/3699	0.82	1/5017 (0.0%)
1	B	0.64	0/3699	0.82	1/5017 (0.0%)
1	C	0.64	0/3699	0.82	1/5017 (0.0%)
1	D	0.64	0/3699	0.82	1/5017 (0.0%)
1	E	0.64	0/3699	0.83	1/5017 (0.0%)
1	F	0.64	0/3699	0.83	1/5017 (0.0%)
1	G	0.64	0/3699	0.83	1/5017 (0.0%)
1	H	0.64	0/3699	0.83	1/5017 (0.0%)
1	I	0.64	0/3699	0.82	2/5017 (0.0%)
1	J	0.64	0/3699	0.83	1/5017 (0.0%)
1	K	0.64	0/3699	0.82	1/5017 (0.0%)
1	L	0.64	0/3699	0.83	1/5017 (0.0%)
1	M	0.64	0/3699	0.82	1/5017 (0.0%)
1	N	0.64	0/3699	0.82	1/5017 (0.0%)
1	O	0.64	0/3699	0.82	1/5017 (0.0%)
All	All	0.64	0/55485	0.83	16/75255 (0.0%)

There are no bond length outliers.

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	609	PRO	N-CA-CB	-7.55	94.24	103.30
1	D	609	PRO	N-CA-CB	-7.39	94.43	103.30
1	H	609	PRO	N-CA-CB	-7.38	94.45	103.30
1	B	609	PRO	N-CA-CB	-7.34	94.49	103.30
1	C	609	PRO	N-CA-CB	-7.33	94.50	103.30
1	F	609	PRO	N-CA-CB	-7.30	94.54	103.30
1	M	609	PRO	N-CA-CB	-7.30	94.54	103.30
1	N	609	PRO	N-CA-CB	-7.30	94.54	103.30
1	L	609	PRO	N-CA-CB	-7.28	94.56	103.30
1	O	609	PRO	N-CA-CB	-7.28	94.56	103.30
1	J	609	PRO	N-CA-CB	-7.28	94.56	103.30
1	K	609	PRO	N-CA-CB	-7.24	94.61	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	609	PRO	N-CA-CB	-7.16	94.71	103.30
1	G	609	PRO	N-CA-CB	-7.16	94.71	103.30
1	E	609	PRO	N-CA-CB	-6.41	95.55	102.60
1	I	609	PRO	N-CD-CG	-5.14	95.49	103.20

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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	3661	0	3727	449	0
1	B	3661	0	3727	426	0
1	C	3661	0	3727	413	0
1	D	3661	0	3727	424	0
1	E	3661	0	3726	441	0
1	F	3661	0	3727	425	0
1	G	3661	0	3727	502	0
1	H	3661	0	3727	685	0
1	I	3661	0	3726	653	0
1	J	3661	0	3727	428	0
1	K	3661	0	3727	435	0
1	L	3661	0	3727	444	0
1	M	3661	0	3727	408	0
1	N	3661	0	3727	424	0
1	O	3661	0	3727	449	0
All	All	54915	0	55903	5493	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 50.

All (5493) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:139:VAL:HG21	1:H:162:ALA:C	1.37	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:108:ARG:CG	1:I:220:GLU:OE1	1.69	1.36
1:E:328:GLN:NE2	1:F:517:LEU:O	1.59	1.35
1:H:141:LEU:CD2	1:I:159:VAL:HA	1.61	1.31
1:H:108:ARG:HG3	1:I:220:GLU:OE1	1.25	1.30
1:H:328:GLN:NE2	1:I:517:LEU:O	1.64	1.29
1:H:141:LEU:HD22	1:I:159:VAL:N	1.47	1.26
1:D:139:VAL:HG11	1:E:162:ALA:O	1.29	1.26
1:G:139:VAL:HG21	1:H:163:GLY:N	1.48	1.25
1:I:136:PRO:O	1:J:199:SER:HB2	1.26	1.25
1:A:162:ALA:O	1:O:139:VAL:HG11	1.37	1.25
1:F:328:GLN:NE2	1:G:517:LEU:O	1.72	1.22
1:F:139:VAL:HG11	1:G:162:ALA:O	1.39	1.20
1:K:139:VAL:HG11	1:L:162:ALA:O	1.39	1.19
1:G:139:VAL:CB	1:H:162:ALA:O	1.91	1.18
1:A:111:SER:HB3	1:B:198:THR:HA	1.26	1.18
1:I:209:ASP:HB2	1:J:183:LEU:CD2	1.73	1.17
1:E:549:VAL:O	1:E:552:TYR:CD2	1.98	1.17
1:H:141:LEU:CD2	1:I:159:VAL:CA	2.23	1.17
1:G:133:HIS:NE2	1:H:114:GLU:HB3	1.60	1.16
1:G:549:VAL:O	1:G:552:TYR:CD2	1.98	1.16
1:F:549:VAL:O	1:F:552:TYR:CD2	1.99	1.16
1:H:207:VAL:HG11	1:I:183:LEU:HA	1.24	1.16
1:H:136:PRO:CD	1:I:110:VAL:HG13	1.75	1.16
1:J:549:VAL:O	1:J:552:TYR:CD2	1.99	1.16
1:H:133:HIS:CD2	1:I:115:LEU:HD21	1.81	1.16
1:H:549:VAL:O	1:H:552:TYR:CD2	1.99	1.16
1:B:549:VAL:O	1:B:552:TYR:CD2	1.99	1.15
1:M:549:VAL:O	1:M:552:TYR:CD2	1.99	1.15
1:L:549:VAL:O	1:L:552:TYR:CD2	1.99	1.15
1:G:328:GLN:NE2	1:H:517:LEU:O	1.80	1.15
1:M:328:GLN:NE2	1:N:517:LEU:O	1.77	1.15
1:D:549:VAL:O	1:D:552:TYR:CD2	1.99	1.15
1:H:141:LEU:HD23	1:I:159:VAL:HA	1.23	1.15
1:I:549:VAL:O	1:I:552:TYR:CD2	1.99	1.15
1:N:139:VAL:HG11	1:O:162:ALA:O	1.43	1.15
1:A:549:VAL:O	1:A:552:TYR:CD2	1.99	1.15
1:C:549:VAL:O	1:C:552:TYR:CD2	1.99	1.15
1:H:412:LEU:HD12	1:I:540:LYS:O	1.45	1.15
1:K:549:VAL:O	1:K:552:TYR:CD2	1.99	1.15
1:N:549:VAL:O	1:N:552:TYR:CD2	1.99	1.15
1:H:136:PRO:HD2	1:I:110:VAL:CG2	1.77	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:398:ALA:HA	1:J:356:GLY:HA3	1.23	1.14
1:H:141:LEU:HB2	1:I:158:ARG:CG	1.77	1.14
1:C:328:GLN:NE2	1:D:517:LEU:O	1.79	1.14
1:O:549:VAL:O	1:O:552:TYR:CD2	1.99	1.13
1:J:328:GLN:NE2	1:K:517:LEU:O	1.81	1.13
1:H:104:VAL:CG2	1:I:158:ARG:HD2	1.79	1.13
1:N:328:GLN:NE2	1:O:517:LEU:O	1.82	1.12
1:I:113:ARG:HG3	1:J:197:ASN:HB3	1.18	1.12
1:K:133:HIS:NE2	1:L:114:GLU:HB3	1.63	1.12
1:H:108:ARG:CB	1:I:220:GLU:OE1	1.97	1.12
1:H:141:LEU:HD21	1:I:159:VAL:HG22	1.21	1.12
1:I:292:LEU:HD12	1:I:311:VAL:HG11	1.30	1.11
1:A:328:GLN:NE2	1:B:517:LEU:O	1.83	1.11
1:H:104:VAL:HG22	1:I:158:ARG:HD2	1.16	1.11
1:D:111:SER:HB3	1:E:198:THR:HA	1.28	1.10
1:N:549:VAL:O	1:N:552:TYR:HD2	1.31	1.10
1:K:141:LEU:HD22	1:L:159:VAL:HG22	1.33	1.10
1:O:549:VAL:O	1:O:552:TYR:HD2	1.31	1.10
1:H:201:LEU:C	1:I:189:LYS:HG3	1.72	1.10
1:B:549:VAL:O	1:B:552:TYR:HD2	1.31	1.09
1:H:141:LEU:HB2	1:I:158:ARG:HG3	1.09	1.09
1:I:167:VAL:HG23	1:J:187:LEU:HD13	1.32	1.09
1:G:139:VAL:CG2	1:H:162:ALA:C	2.21	1.09
1:H:136:PRO:HD2	1:I:110:VAL:HG22	1.19	1.09
1:K:111:SER:HB3	1:L:198:THR:HA	1.35	1.09
1:L:549:VAL:O	1:L:552:TYR:HD2	1.31	1.09
1:F:139:VAL:HG21	1:G:162:ALA:C	1.72	1.09
1:C:549:VAL:O	1:C:552:TYR:HD2	1.31	1.08
1:H:169:ILE:HD12	1:I:234:LEU:HD21	1.24	1.08
1:A:549:VAL:O	1:A:552:TYR:HD2	1.31	1.08
1:K:549:VAL:O	1:K:552:TYR:HD2	1.31	1.08
1:H:104:VAL:CG2	1:I:158:ARG:CD	2.31	1.08
1:L:328:GLN:NE2	1:M:517:LEU:O	1.85	1.08
1:F:549:VAL:O	1:F:552:TYR:HD2	1.31	1.07
1:K:111:SER:CB	1:L:198:THR:HA	1.83	1.07
1:G:139:VAL:CG1	1:H:162:ALA:O	2.01	1.07
1:J:292:LEU:HD12	1:J:311:VAL:HG11	1.36	1.07
1:L:292:LEU:HD12	1:L:311:VAL:HG11	1.37	1.07
1:M:292:LEU:HD12	1:M:311:VAL:HG11	1.37	1.07
1:M:549:VAL:O	1:M:552:TYR:HD2	1.31	1.07
1:I:207:VAL:HG21	1:J:186:ASN:HB3	1.32	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:549:VAL:O	1:H:552:TYR:HD2	1.31	1.06
1:D:549:VAL:O	1:D:552:TYR:HD2	1.31	1.06
1:E:549:VAL:O	1:E:552:TYR:HD2	1.31	1.06
1:K:292:LEU:HD12	1:K:311:VAL:HG11	1.37	1.06
1:K:328:GLN:NE2	1:L:517:LEU:O	1.87	1.06
1:A:111:SER:CB	1:B:198:THR:HA	1.84	1.06
1:A:162:ALA:C	1:O:139:VAL:HG21	1.76	1.06
1:D:461:ILE:HG12	1:E:445:GLN:HB2	1.38	1.06
1:H:136:PRO:CD	1:I:110:VAL:CG1	2.34	1.06
1:O:292:LEU:HD12	1:O:311:VAL:HG11	1.37	1.06
1:A:114:GLU:HB3	1:O:133:HIS:NE2	1.70	1.05
1:H:167:VAL:HG21	1:I:230:MET:CE	1.85	1.05
1:L:139:VAL:HG11	1:M:162:ALA:O	1.56	1.05
1:G:136:PRO:HB2	1:H:202:LEU:HD22	1.33	1.05
1:I:209:ASP:CB	1:J:183:LEU:HD21	1.86	1.05
1:K:292:LEU:HD11	1:K:315:LEU:HD11	1.38	1.05
1:M:292:LEU:HD11	1:M:315:LEU:HD11	1.39	1.05
1:A:292:LEU:HD12	1:A:311:VAL:HG11	1.36	1.05
1:A:373:ALA:HB1	1:A:386:LEU:HB2	1.38	1.05
1:B:373:ALA:HB1	1:B:386:LEU:HB2	1.39	1.05
1:D:292:LEU:HD11	1:D:315:LEU:HD11	1.39	1.05
1:N:292:LEU:HD12	1:N:311:VAL:HG11	1.38	1.05
1:A:108:ARG:HD3	1:B:220:GLU:OE1	1.56	1.04
1:F:292:LEU:HD11	1:F:315:LEU:HD11	1.39	1.04
1:H:141:LEU:CB	1:I:158:ARG:HG3	1.85	1.04
1:B:328:GLN:NE2	1:C:517:LEU:O	1.87	1.04
1:C:373:ALA:HB1	1:C:386:LEU:HB2	1.38	1.04
1:G:139:VAL:HG11	1:H:162:ALA:O	1.54	1.04
1:G:549:VAL:O	1:G:552:TYR:HD2	1.30	1.04
1:I:373:ALA:HB1	1:I:386:LEU:HB2	1.37	1.04
1:J:549:VAL:O	1:J:552:TYR:HD2	1.31	1.04
1:O:292:LEU:HD11	1:O:315:LEU:HD11	1.39	1.04
1:M:373:ALA:HB1	1:M:386:LEU:HB2	1.38	1.04
1:C:139:VAL:HG11	1:D:162:ALA:O	1.55	1.04
1:O:373:ALA:HB1	1:O:386:LEU:HB2	1.39	1.04
1:H:135:ASP:HA	1:I:110:VAL:HG21	1.36	1.04
1:N:373:ALA:HB1	1:N:386:LEU:HB2	1.39	1.04
1:B:292:LEU:HD11	1:B:315:LEU:HD11	1.39	1.03
1:N:292:LEU:HD11	1:N:315:LEU:HD11	1.38	1.03
1:A:141:LEU:HD22	1:B:159:VAL:HG22	1.40	1.03
1:E:607:THR:C	1:E:609:PRO:HD3	1.77	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:292:LEU:HD12	1:H:311:VAL:HG11	1.38	1.03
1:B:139:VAL:HG11	1:C:162:ALA:O	1.57	1.03
1:H:292:LEU:HD11	1:H:315:LEU:HD11	1.39	1.03
1:H:136:PRO:HB2	1:I:202:LEU:HD22	1.38	1.03
1:G:292:LEU:HD12	1:G:311:VAL:HG11	1.39	1.03
1:G:292:LEU:HD11	1:G:315:LEU:HD11	1.39	1.03
1:L:373:ALA:HB1	1:L:386:LEU:HB2	1.38	1.03
1:B:292:LEU:HD12	1:B:311:VAL:HG11	1.36	1.02
1:D:292:LEU:HD12	1:D:311:VAL:HG11	1.37	1.02
1:E:292:LEU:HD11	1:E:315:LEU:HD11	1.38	1.02
1:J:373:ALA:HB1	1:J:386:LEU:HB2	1.37	1.02
1:A:139:VAL:HG11	1:B:162:ALA:O	1.58	1.02
1:C:292:LEU:HD11	1:C:315:LEU:HD11	1.38	1.02
1:C:292:LEU:HD12	1:C:311:VAL:HG11	1.37	1.02
1:E:292:LEU:HD12	1:E:311:VAL:HG11	1.37	1.02
1:F:373:ALA:HB1	1:F:386:LEU:HB2	1.39	1.02
1:L:292:LEU:HD11	1:L:315:LEU:HD11	1.39	1.02
1:A:292:LEU:HD11	1:A:315:LEU:HD11	1.39	1.02
1:F:292:LEU:HD12	1:F:311:VAL:HG11	1.39	1.02
1:H:373:ALA:HB1	1:H:386:LEU:HB2	1.38	1.02
1:A:198:THR:HA	1:O:111:SER:CB	1.89	1.01
1:G:104:VAL:HG11	1:H:162:ALA:HA	1.41	1.01
1:H:216:VAL:HG21	1:I:183:LEU:HD13	1.41	1.01
1:A:445:GLN:HB2	1:O:461:ILE:HG12	1.39	1.01
1:D:141:LEU:HD22	1:E:159:VAL:HG22	1.41	1.01
1:J:292:LEU:HD11	1:J:315:LEU:HD11	1.38	1.01
1:G:373:ALA:HB1	1:G:386:LEU:HB2	1.40	1.01
1:I:417:LYS:HB2	1:J:536:GLU:HB3	1.42	1.01
1:K:373:ALA:HB1	1:K:386:LEU:HB2	1.39	1.01
1:H:489:GLU:HA	1:H:510:ARG:O	1.61	1.01
1:B:489:GLU:HA	1:B:510:ARG:O	1.61	1.00
1:C:489:GLU:HA	1:C:510:ARG:O	1.61	1.00
1:D:373:ALA:HB1	1:D:386:LEU:HB2	1.39	1.00
1:F:489:GLU:HA	1:F:510:ARG:O	1.61	1.00
1:M:489:GLU:HA	1:M:510:ARG:O	1.61	1.00
1:G:104:VAL:CG2	1:H:158:ARG:HD2	1.91	1.00
1:J:489:GLU:HA	1:J:510:ARG:O	1.61	1.00
1:N:489:GLU:HA	1:N:510:ARG:O	1.62	1.00
1:A:133:HIS:NE2	1:B:114:GLU:HB3	1.75	1.00
1:F:221:PRO:HB3	1:F:224:ARG:NH2	1.77	1.00
1:I:549:VAL:O	1:I:552:TYR:HD2	1.32	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:489:GLU:HA	1:D:510:ARG:O	1.62	1.00
1:I:113:ARG:HG3	1:J:197:ASN:CB	1.92	1.00
1:K:108:ARG:HD3	1:L:220:GLU:OE1	1.60	1.00
1:M:139:VAL:HG11	1:N:162:ALA:O	1.61	1.00
1:N:133:HIS:NE2	1:O:114:GLU:HB3	1.77	0.99
1:G:607:THR:C	1:G:609:PRO:HD3	1.83	0.99
1:H:141:LEU:HD21	1:I:159:VAL:CG2	1.91	0.99
1:E:373:ALA:HB1	1:E:386:LEU:HB2	1.39	0.99
1:I:115:LEU:HD22	1:I:118:LEU:HD13	1.44	0.99
1:E:177:ALA:HB1	1:E:208:ALA:HB1	1.42	0.99
1:E:221:PRO:HB3	1:E:224:ARG:NH2	1.78	0.99
1:L:489:GLU:HA	1:L:510:ARG:O	1.61	0.99
1:D:221:PRO:HB3	1:D:224:ARG:HH21	1.28	0.99
1:H:141:LEU:HD22	1:I:159:VAL:CA	1.88	0.99
1:I:221:PRO:HB3	1:I:224:ARG:HH21	1.26	0.99
1:A:607:THR:C	1:A:609:PRO:HD3	1.82	0.99
1:G:221:PRO:HB3	1:G:224:ARG:HH21	1.28	0.99
1:L:221:PRO:HB3	1:L:224:ARG:NH2	1.78	0.99
1:M:221:PRO:HB3	1:M:224:ARG:NH2	1.78	0.99
1:H:136:PRO:HD3	1:I:110:VAL:CG1	1.90	0.99
1:A:489:GLU:HA	1:A:510:ARG:O	1.61	0.98
1:D:221:PRO:HB3	1:D:224:ARG:NH2	1.78	0.98
1:H:221:PRO:HB3	1:H:224:ARG:HH21	1.28	0.98
1:K:221:PRO:HB3	1:K:224:ARG:NH2	1.78	0.98
1:J:221:PRO:HB3	1:J:224:ARG:NH2	1.78	0.98
1:O:489:GLU:HA	1:O:510:ARG:O	1.62	0.98
1:A:138:ASN:ND2	1:B:198:THR:O	1.95	0.98
1:I:136:PRO:O	1:J:199:SER:CB	2.11	0.98
1:N:607:THR:C	1:N:609:PRO:HD3	1.84	0.98
1:G:489:GLU:HA	1:G:510:ARG:O	1.62	0.98
1:N:221:PRO:HB3	1:N:224:ARG:NH2	1.78	0.98
1:K:489:GLU:HA	1:K:510:ARG:O	1.61	0.98
1:C:221:PRO:HB3	1:C:224:ARG:NH2	1.78	0.98
1:D:328:GLN:NE2	1:E:517:LEU:O	1.96	0.98
1:G:177:ALA:HB1	1:G:208:ALA:HB1	1.45	0.98
1:I:489:GLU:HA	1:I:510:ARG:O	1.62	0.98
1:A:177:ALA:HB1	1:A:208:ALA:HB1	1.46	0.98
1:I:292:LEU:HD11	1:I:315:LEU:HD11	1.41	0.98
1:B:221:PRO:HB3	1:B:224:ARG:NH2	1.78	0.98
1:F:607:THR:C	1:F:609:PRO:HD3	1.84	0.98
1:I:221:PRO:HB3	1:I:224:ARG:NH2	1.78	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:607:THR:C	1:K:609:PRO:HD3	1.84	0.98
1:O:439:GLY:HA3	1:O:467:GLY:HA3	1.45	0.98
1:O:607:THR:C	1:O:609:PRO:HD3	1.84	0.98
1:H:221:PRO:HB3	1:H:224:ARG:NH2	1.79	0.98
1:J:495:LYS:HB2	1:J:498:THR:OG1	1.64	0.98
1:E:575:LEU:HD13	1:E:581:TYR:CD1	1.99	0.97
1:J:607:THR:C	1:J:609:PRO:HD3	1.84	0.97
1:M:177:ALA:HB1	1:M:208:ALA:HB1	1.46	0.97
1:N:439:GLY:HA3	1:N:467:GLY:HA3	1.45	0.97
1:A:495:LYS:HB2	1:A:498:THR:OG1	1.63	0.97
1:C:495:LYS:HB2	1:C:498:THR:OG1	1.64	0.97
1:M:607:THR:C	1:M:609:PRO:HD3	1.83	0.97
1:I:495:LYS:HB2	1:I:498:THR:OG1	1.64	0.97
1:E:489:GLU:HA	1:E:510:ARG:O	1.63	0.97
1:G:221:PRO:HB3	1:G:224:ARG:NH2	1.78	0.97
1:L:495:LYS:HB2	1:L:498:THR:OG1	1.64	0.97
1:L:607:THR:C	1:L:609:PRO:HD3	1.84	0.97
1:F:177:ALA:HB1	1:F:208:ALA:HB1	1.45	0.97
1:I:439:GLY:HA3	1:I:467:GLY:HA3	1.46	0.97
1:K:495:LYS:HB2	1:K:498:THR:OG1	1.64	0.97
1:O:221:PRO:HB3	1:O:224:ARG:NH2	1.79	0.97
1:A:517:LEU:O	1:O:328:GLN:NE2	1.98	0.97
1:I:109:ASN:ND2	1:I:160:ASP:O	1.98	0.97
1:L:177:ALA:HB1	1:L:208:ALA:HB1	1.46	0.97
1:B:495:LYS:HB2	1:B:498:THR:OG1	1.64	0.97
1:G:439:GLY:HA3	1:G:467:GLY:HA3	1.44	0.97
1:H:177:ALA:HB1	1:H:208:ALA:HB1	1.46	0.97
1:B:439:GLY:HA3	1:B:467:GLY:HA3	1.45	0.97
1:C:607:THR:C	1:C:609:PRO:HD3	1.85	0.97
1:H:439:GLY:HA3	1:H:467:GLY:HA3	1.45	0.97
1:N:495:LYS:HB2	1:N:498:THR:OG1	1.65	0.97
1:B:177:ALA:HB1	1:B:208:ALA:HB1	1.47	0.96
1:B:607:THR:C	1:B:609:PRO:HD3	1.84	0.96
1:F:439:GLY:HA3	1:F:467:GLY:HA3	1.44	0.96
1:J:139:VAL:HG11	1:K:162:ALA:O	1.64	0.96
1:A:221:PRO:HB3	1:A:224:ARG:NH2	1.79	0.96
1:M:439:GLY:HA3	1:M:467:GLY:HA3	1.45	0.96
1:M:495:LYS:HB2	1:M:498:THR:OG1	1.64	0.96
1:O:177:ALA:HB1	1:O:208:ALA:HB1	1.45	0.96
1:G:135:ASP:CB	1:H:110:VAL:HG21	1.94	0.96
1:K:221:PRO:HB3	1:K:224:ARG:HH21	1.30	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:177:ALA:HB1	1:D:208:ALA:HB1	1.45	0.96
1:N:141:LEU:HD22	1:O:159:VAL:HG22	1.45	0.96
1:N:177:ALA:HB1	1:N:208:ALA:HB1	1.45	0.96
1:L:109:ASN:ND2	1:L:160:ASP:O	1.99	0.96
1:L:439:GLY:HA3	1:L:467:GLY:HA3	1.46	0.96
1:N:109:ASN:ND2	1:N:160:ASP:O	1.99	0.96
1:A:438:VAL:HG13	1:B:510:ARG:HG2	1.48	0.96
1:H:133:HIS:CD2	1:I:115:LEU:CD2	2.49	0.96
1:A:439:GLY:HA3	1:A:467:GLY:HA3	1.46	0.96
1:H:167:VAL:O	1:I:233:GLN:OE1	1.83	0.96
1:O:495:LYS:HB2	1:O:498:THR:OG1	1.64	0.96
1:C:177:ALA:HB1	1:C:208:ALA:HB1	1.47	0.96
1:E:109:ASN:ND2	1:E:160:ASP:O	1.98	0.96
1:G:139:VAL:HB	1:H:162:ALA:O	1.63	0.96
1:K:177:ALA:HB1	1:K:208:ALA:HB1	1.45	0.96
1:N:111:SER:HB3	1:O:198:THR:HA	1.47	0.96
1:B:109:ASN:ND2	1:B:160:ASP:O	1.99	0.96
1:C:109:ASN:ND2	1:C:160:ASP:O	1.99	0.96
1:D:109:ASN:ND2	1:D:160:ASP:O	1.99	0.96
1:I:113:ARG:CG	1:J:197:ASN:HB3	1.95	0.96
1:O:109:ASN:ND2	1:O:160:ASP:O	1.99	0.96
1:A:109:ASN:ND2	1:A:160:ASP:O	1.99	0.95
1:H:109:ASN:ND2	1:H:160:ASP:O	1.98	0.95
1:I:136:PRO:C	1:J:199:SER:HB2	1.85	0.95
1:K:439:GLY:HA3	1:K:467:GLY:HA3	1.45	0.95
1:D:440:GLN:HB2	1:E:507:PHE:O	1.66	0.95
1:F:109:ASN:ND2	1:F:160:ASP:O	1.99	0.95
1:H:607:THR:C	1:H:609:PRO:HD3	1.85	0.95
1:B:491:SER:HA	1:B:508:ASP:O	1.67	0.95
1:D:439:GLY:HA3	1:D:467:GLY:HA3	1.44	0.95
1:I:398:ALA:HA	1:J:356:GLY:CA	1.95	0.95
1:J:109:ASN:ND2	1:J:160:ASP:O	1.99	0.95
1:K:109:ASN:ND2	1:K:160:ASP:O	1.98	0.95
1:M:109:ASN:ND2	1:M:160:ASP:O	1.99	0.95
1:C:439:GLY:HA3	1:C:467:GLY:HA3	1.46	0.95
1:F:491:SER:HA	1:F:508:ASP:O	1.67	0.95
1:J:177:ALA:HB1	1:J:208:ALA:HB1	1.47	0.95
1:L:438:VAL:HG13	1:M:510:ARG:HG2	1.48	0.95
1:E:495:LYS:HB2	1:E:498:THR:OG1	1.67	0.95
1:E:611:ARG:NH2	1:F:417:LYS:HD2	1.80	0.95
1:J:439:GLY:HA3	1:J:467:GLY:HA3	1.46	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:491:SER:HA	1:J:508:ASP:O	1.67	0.95
1:M:438:VAL:HG13	1:N:510:ARG:HG2	1.49	0.95
1:A:162:ALA:O	1:O:139:VAL:CG1	2.14	0.95
1:D:607:THR:C	1:D:609:PRO:HD3	1.85	0.95
1:G:109:ASN:ND2	1:G:160:ASP:O	1.99	0.95
1:H:491:SER:HA	1:H:508:ASP:O	1.67	0.95
1:A:198:THR:HA	1:O:111:SER:HB3	1.47	0.95
1:A:510:ARG:HG2	1:O:438:VAL:HG13	1.47	0.95
1:E:439:GLY:HA3	1:E:467:GLY:HA3	1.45	0.95
1:H:495:LYS:HB2	1:H:498:THR:OG1	1.64	0.95
1:D:495:LYS:HB2	1:D:498:THR:OG1	1.65	0.95
1:H:136:PRO:CD	1:I:110:VAL:HG22	1.97	0.95
1:M:491:SER:HA	1:M:508:ASP:O	1.67	0.95
1:F:221:PRO:HB3	1:F:224:ARG:HH21	1.31	0.95
1:F:495:LYS:HB2	1:F:498:THR:OG1	1.65	0.95
1:B:438:VAL:HG13	1:C:510:ARG:HG2	1.49	0.94
1:H:141:LEU:HB3	1:I:162:ALA:HB2	1.49	0.94
1:J:438:VAL:HG13	1:K:510:ARG:HG2	1.49	0.94
1:L:491:SER:HA	1:L:508:ASP:O	1.67	0.94
1:A:491:SER:HA	1:A:508:ASP:O	1.67	0.94
1:E:221:PRO:HB3	1:E:224:ARG:HH21	1.31	0.94
1:D:491:SER:HA	1:D:508:ASP:O	1.67	0.94
1:H:106:PRO:O	1:I:222:LYS:NZ	2.00	0.94
1:G:491:SER:HA	1:G:508:ASP:O	1.67	0.94
1:G:575:LEU:HD13	1:G:581:TYR:CD1	2.03	0.94
1:N:491:SER:HA	1:N:508:ASP:O	1.67	0.94
1:I:292:LEU:CD1	1:I:311:VAL:HG11	1.98	0.94
1:J:575:LEU:HD13	1:J:581:TYR:CD1	2.02	0.94
1:C:438:VAL:HG13	1:D:510:ARG:HG2	1.50	0.94
1:C:491:SER:HA	1:C:508:ASP:O	1.67	0.94
1:I:491:SER:HA	1:I:508:ASP:O	1.67	0.94
1:N:221:PRO:HB3	1:N:224:ARG:HH21	1.31	0.94
1:O:575:LEU:HD13	1:O:581:TYR:CD1	2.03	0.94
1:E:491:SER:HA	1:E:508:ASP:O	1.67	0.94
1:G:495:LYS:HB2	1:G:498:THR:OG1	1.67	0.94
1:H:167:VAL:O	1:I:233:GLN:NE2	1.99	0.94
1:K:491:SER:HA	1:K:508:ASP:O	1.67	0.94
1:J:221:PRO:HB3	1:J:224:ARG:HH21	1.32	0.94
1:K:438:VAL:HG13	1:L:510:ARG:HG2	1.49	0.94
1:L:221:PRO:HB3	1:L:224:ARG:HH21	1.29	0.94
1:N:438:VAL:HG13	1:O:510:ARG:HG2	1.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:159:VAL:HG22	1:O:141:LEU:HD22	1.48	0.94
1:G:211:ARG:HA	1:H:243:ASN:ND2	1.83	0.94
1:L:111:SER:HB3	1:M:198:THR:HA	1.50	0.94
1:D:111:SER:CB	1:E:198:THR:HA	1.97	0.93
1:H:575:LEU:HD13	1:H:581:TYR:CD1	2.03	0.93
1:D:438:VAL:HG13	1:E:510:ARG:HG2	1.47	0.93
1:I:438:VAL:HG13	1:J:510:ARG:HG2	1.48	0.93
1:M:575:LEU:HD13	1:M:581:TYR:CD1	2.02	0.93
1:N:111:SER:CB	1:O:198:THR:HA	1.97	0.93
1:N:575:LEU:HD13	1:N:581:TYR:CD1	2.03	0.93
1:G:500:THR:HG21	1:G:506:THR:HG23	1.51	0.93
1:L:575:LEU:HD13	1:L:581:TYR:CD1	2.02	0.93
1:A:575:LEU:HD13	1:A:581:TYR:CD1	2.03	0.93
1:K:575:LEU:HD13	1:K:581:TYR:CD1	2.02	0.93
1:J:167:VAL:HG13	1:J:217:VAL:O	1.69	0.93
1:I:607:THR:C	1:I:609:PRO:HD3	1.87	0.93
1:I:500:THR:HG21	1:I:506:THR:HG23	1.52	0.92
1:K:139:VAL:CG1	1:L:162:ALA:O	2.15	0.92
1:B:221:PRO:HB3	1:B:224:ARG:HH21	1.32	0.92
1:B:575:LEU:HD13	1:B:581:TYR:CD1	2.03	0.92
1:C:221:PRO:HB3	1:C:224:ARG:HH21	1.30	0.92
1:C:167:VAL:HG13	1:C:217:VAL:O	1.69	0.92
1:I:167:VAL:HG13	1:I:217:VAL:O	1.70	0.92
1:L:167:VAL:HG13	1:L:217:VAL:O	1.69	0.92
1:O:221:PRO:HB3	1:O:224:ARG:HH21	1.28	0.92
1:C:575:LEU:HD13	1:C:581:TYR:CD1	2.03	0.92
1:D:167:VAL:HG13	1:D:217:VAL:O	1.70	0.92
1:A:167:VAL:HG13	1:A:217:VAL:O	1.69	0.92
1:O:491:SER:HA	1:O:508:ASP:O	1.67	0.92
1:D:575:LEU:HD13	1:D:581:TYR:CD1	2.04	0.92
1:M:167:VAL:HG13	1:M:217:VAL:O	1.69	0.92
1:F:139:VAL:CG1	1:G:162:ALA:O	2.17	0.91
1:B:167:VAL:HG13	1:B:217:VAL:O	1.69	0.91
1:F:575:LEU:HD13	1:F:581:TYR:CD1	2.04	0.91
1:G:491:SER:CB	1:G:509:THR:HG22	2.01	0.91
1:I:167:VAL:CG2	1:J:187:LEU:HD13	1.99	0.91
1:D:491:SER:CB	1:D:509:THR:HG22	2.01	0.91
1:F:438:VAL:HG13	1:G:510:ARG:HG2	1.52	0.91
1:C:491:SER:CB	1:C:509:THR:HG22	2.01	0.91
1:E:500:THR:HG21	1:E:506:THR:HG23	1.51	0.91
1:G:104:VAL:HG23	1:H:158:ARG:HD2	1.49	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:167:VAL:HG13	1:H:217:VAL:O	1.69	0.91
1:I:209:ASP:HB2	1:J:183:LEU:HD21	0.93	0.91
1:N:108:ARG:HD3	1:O:220:GLU:OE1	1.70	0.91
1:O:500:THR:HG21	1:O:506:THR:HG23	1.53	0.91
1:E:491:SER:CB	1:E:509:THR:HG22	2.01	0.91
1:H:205:LYS:HZ3	1:I:188:ASN:HB2	1.36	0.91
1:J:491:SER:CB	1:J:509:THR:HG22	2.01	0.91
1:K:167:VAL:HG13	1:K:217:VAL:O	1.69	0.91
1:O:167:VAL:HG13	1:O:217:VAL:O	1.69	0.91
1:B:491:SER:CB	1:B:509:THR:HG22	2.01	0.91
1:D:500:THR:HG21	1:D:506:THR:HG23	1.53	0.90
1:E:605:TYR:OH	1:G:548:PRO:HB3	1.69	0.90
1:H:438:VAL:HG13	1:I:510:ARG:HG2	1.53	0.90
1:A:491:SER:CB	1:A:509:THR:HG22	2.01	0.90
1:F:500:THR:HG21	1:F:506:THR:HG23	1.52	0.90
1:O:491:SER:CB	1:O:509:THR:HG22	2.01	0.90
1:K:491:SER:CB	1:K:509:THR:HG22	2.01	0.90
1:M:500:THR:HG21	1:M:506:THR:HG23	1.53	0.90
1:H:167:VAL:HG21	1:I:230:MET:HE3	1.54	0.90
1:L:491:SER:CB	1:L:509:THR:HG22	2.01	0.90
1:G:347:GLY:HA2	1:G:556:SER:HA	1.54	0.90
1:F:347:GLY:HA2	1:F:556:SER:HA	1.54	0.90
1:K:500:THR:HG21	1:K:506:THR:HG23	1.53	0.90
1:E:167:VAL:HG13	1:E:217:VAL:O	1.71	0.90
1:F:491:SER:CB	1:F:509:THR:HG22	2.01	0.90
1:L:500:THR:HG21	1:L:506:THR:HG23	1.53	0.90
1:M:491:SER:CB	1:M:509:THR:HG22	2.01	0.90
1:N:500:THR:HG21	1:N:506:THR:HG23	1.53	0.90
1:A:221:PRO:HB3	1:A:224:ARG:HH21	1.29	0.90
1:E:347:GLY:HA2	1:E:556:SER:HA	1.54	0.90
1:F:167:VAL:HG13	1:F:217:VAL:O	1.72	0.90
1:H:136:PRO:CD	1:I:110:VAL:CG2	2.48	0.90
1:H:169:ILE:HG13	1:I:234:LEU:HG	1.53	0.90
1:H:461:ILE:HG12	1:I:445:GLN:HB2	1.53	0.90
1:H:500:THR:HG21	1:H:506:THR:HG23	1.52	0.90
1:G:167:VAL:HG13	1:G:217:VAL:O	1.72	0.90
1:H:491:SER:CB	1:H:509:THR:HG22	2.01	0.90
1:L:111:SER:CB	1:M:198:THR:HA	2.02	0.90
1:G:108:ARG:HD3	1:H:220:GLU:OE1	1.72	0.89
1:G:390:ALA:O	1:H:359:GLN:NE2	2.04	0.89
1:G:461:ILE:HG12	1:H:445:GLN:HB2	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:169:ILE:O	1:I:236:ARG:NH1	2.05	0.89
1:L:347:GLY:HA2	1:L:556:SER:HA	1.55	0.89
1:M:347:GLY:HA2	1:M:556:SER:HA	1.55	0.89
1:N:491:SER:CB	1:N:509:THR:HG22	2.01	0.89
1:I:491:SER:CB	1:I:509:THR:HG22	2.02	0.89
1:J:292:LEU:CD1	1:J:311:VAL:HG11	2.02	0.89
1:H:107:VAL:HB	1:H:112:VAL:HG12	1.54	0.89
1:H:347:GLY:HA2	1:H:556:SER:HA	1.54	0.89
1:J:417:LYS:HB2	1:K:536:GLU:HB3	1.54	0.89
1:N:347:GLY:HA2	1:N:556:SER:HA	1.54	0.89
1:K:347:GLY:HA2	1:K:556:SER:HA	1.54	0.89
1:M:417:LYS:HB2	1:N:536:GLU:HB3	1.55	0.89
1:G:596:GLN:HE21	1:H:338:ILE:HD11	1.34	0.89
1:H:135:ASP:OD2	1:I:163:GLY:N	2.04	0.89
1:I:117:PRO:O	1:I:121:GLN:HB2	1.72	0.89
1:J:500:THR:HG21	1:J:506:THR:HG23	1.54	0.89
1:D:139:VAL:CG1	1:E:162:ALA:O	2.20	0.89
1:D:347:GLY:HA2	1:D:556:SER:HA	1.54	0.89
1:G:438:VAL:HG13	1:H:510:ARG:HG2	1.54	0.89
1:K:139:VAL:HG21	1:L:162:ALA:C	1.91	0.89
1:M:292:LEU:CD1	1:M:311:VAL:HG11	2.03	0.89
1:O:347:GLY:HA2	1:O:556:SER:HA	1.55	0.89
1:C:417:LYS:HB2	1:D:536:GLU:HB3	1.55	0.89
1:B:417:LYS:HB2	1:C:536:GLU:HB3	1.54	0.89
1:B:500:THR:HG21	1:B:506:THR:HG23	1.54	0.89
1:H:108:ARG:HA	1:I:220:GLU:OE2	1.72	0.89
1:J:347:GLY:HA2	1:J:556:SER:HA	1.55	0.89
1:N:167:VAL:HG13	1:N:217:VAL:O	1.70	0.89
1:N:292:LEU:CD1	1:N:311:VAL:HG11	2.03	0.89
1:G:117:PRO:O	1:G:121:GLN:HB2	1.73	0.89
1:I:575:LEU:HD13	1:I:581:TYR:CD1	2.07	0.89
1:O:292:LEU:CD1	1:O:311:VAL:HG11	2.03	0.89
1:C:347:GLY:HA2	1:C:556:SER:HA	1.55	0.88
1:G:141:LEU:CD2	1:H:159:VAL:HG22	2.02	0.88
1:H:176:SER:OG	1:I:308:GLN:HG2	1.73	0.88
1:A:292:LEU:CD1	1:A:311:VAL:HG11	2.03	0.88
1:A:347:GLY:HA2	1:A:556:SER:HA	1.55	0.88
1:L:292:LEU:CD1	1:L:311:VAL:HG11	2.03	0.88
1:G:111:SER:CB	1:H:198:THR:HA	2.04	0.88
1:E:438:VAL:HG13	1:F:510:ARG:HG2	1.53	0.88
1:B:292:LEU:CD1	1:B:311:VAL:HG11	2.02	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:466:VAL:HG21	1:A:507:PHE:CE1	2.09	0.88
1:I:377:TYR:OH	1:J:375:LYS:HG3	1.74	0.88
1:K:292:LEU:CD1	1:K:311:VAL:HG11	2.03	0.88
1:A:220:GLU:OE1	1:O:108:ARG:HD3	1.73	0.88
1:B:347:GLY:HA2	1:B:556:SER:HA	1.55	0.88
1:E:581:TYR:CE2	1:F:524:VAL:HG11	2.08	0.88
1:L:417:LYS:HB2	1:M:536:GLU:HB3	1.56	0.88
1:A:417:LYS:HB2	1:B:536:GLU:HB3	1.56	0.87
1:B:482:VAL:HG21	1:B:572:PRO:HB2	1.57	0.87
1:I:347:GLY:HA2	1:I:556:SER:HA	1.55	0.87
1:D:417:LYS:HB2	1:E:536:GLU:HB3	1.56	0.87
1:D:482:VAL:HG21	1:D:572:PRO:HB2	1.57	0.87
1:H:299:THR:HB	1:I:326:ARG:CZ	2.03	0.87
1:M:221:PRO:HB3	1:M:224:ARG:HH21	1.33	0.87
1:H:218:SER:HB2	1:I:187:LEU:HD13	1.57	0.87
1:H:292:LEU:CD1	1:H:311:VAL:HG11	2.04	0.87
1:K:466:VAL:HG21	1:K:507:PHE:CE1	2.10	0.87
1:A:500:THR:HG21	1:A:506:THR:HG23	1.54	0.87
1:I:417:LYS:O	1:J:536:GLU:N	2.07	0.87
1:B:117:PRO:O	1:B:121:GLN:HB2	1.74	0.87
1:B:466:VAL:HG21	1:B:507:PHE:CE1	2.10	0.87
1:C:292:LEU:CD1	1:C:311:VAL:HG11	2.03	0.87
1:C:466:VAL:HG21	1:C:507:PHE:CE1	2.10	0.87
1:F:482:VAL:HG21	1:F:572:PRO:HB2	1.56	0.87
1:O:466:VAL:HG21	1:O:507:PHE:CE1	2.10	0.87
1:E:292:LEU:CD1	1:E:311:VAL:HG11	2.03	0.87
1:H:141:LEU:HB2	1:I:158:ARG:CD	2.03	0.87
1:K:104:VAL:HG23	1:L:158:ARG:HD2	1.57	0.87
1:N:466:VAL:HG21	1:N:507:PHE:CE1	2.10	0.87
1:F:117:PRO:O	1:F:121:GLN:HB2	1.74	0.86
1:B:123:ASN:OD1	1:B:130:ASN:HB2	1.75	0.86
1:D:292:LEU:CD1	1:D:311:VAL:HG11	2.03	0.86
1:J:123:ASN:OD1	1:J:130:ASN:HB2	1.75	0.86
1:M:117:PRO:O	1:M:121:GLN:HB2	1.75	0.86
1:G:466:VAL:HG21	1:G:507:PHE:CE1	2.11	0.86
1:H:168:ASP:OD2	1:H:224:ARG:HG2	1.75	0.86
1:H:466:VAL:HG21	1:H:507:PHE:CE1	2.10	0.86
1:J:466:VAL:HG21	1:J:507:PHE:CE1	2.10	0.86
1:M:123:ASN:OD1	1:M:130:ASN:HB2	1.76	0.86
1:M:466:VAL:HG21	1:M:507:PHE:CE1	2.10	0.86
1:G:292:LEU:CD1	1:G:311:VAL:HG11	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:117:PRO:O	1:H:121:GLN:HB2	1.76	0.86
1:H:123:ASN:OD1	1:H:130:ASN:HB2	1.75	0.86
1:I:107:VAL:HB	1:I:112:VAL:HG12	1.55	0.86
1:N:123:ASN:OD1	1:N:130:ASN:HB2	1.75	0.86
1:C:117:PRO:O	1:C:121:GLN:HB2	1.76	0.86
1:E:417:LYS:HB2	1:F:536:GLU:HB3	1.56	0.86
1:L:133:HIS:NE2	1:M:114:GLU:HB3	1.89	0.86
1:O:482:VAL:HG21	1:O:572:PRO:HB2	1.57	0.86
1:I:168:ASP:OD2	1:I:224:ARG:HG2	1.76	0.86
1:L:466:VAL:HG21	1:L:507:PHE:CE1	2.10	0.86
1:M:510:ARG:HD2	1:M:566:LEU:HD22	1.58	0.86
1:A:123:ASN:OD1	1:A:130:ASN:HB2	1.76	0.86
1:C:500:THR:HG21	1:C:506:THR:HG23	1.54	0.86
1:E:466:VAL:HG21	1:E:507:PHE:CE1	2.10	0.86
1:I:466:VAL:HG21	1:I:507:PHE:CE1	2.10	0.86
1:J:260:VAL:HG11	1:J:322:LEU:HD21	1.58	0.86
1:N:417:LYS:HB2	1:O:536:GLU:HB3	1.58	0.86
1:D:466:VAL:HG21	1:D:507:PHE:CE1	2.10	0.86
1:I:115:LEU:HD11	1:I:159:VAL:HG21	1.57	0.86
1:K:123:ASN:OD1	1:K:130:ASN:HB2	1.75	0.86
1:L:123:ASN:OD1	1:L:130:ASN:HB2	1.75	0.86
1:C:123:ASN:OD1	1:C:130:ASN:HB2	1.75	0.86
1:N:117:PRO:O	1:N:121:GLN:HB2	1.76	0.86
1:H:135:ASP:CA	1:I:110:VAL:HG21	2.06	0.86
1:N:510:ARG:HD2	1:N:566:LEU:HD22	1.58	0.86
1:B:111:SER:HB3	1:C:198:THR:HA	1.56	0.85
1:D:377:TYR:OH	1:E:375:LYS:HG3	1.75	0.85
1:F:292:LEU:CD1	1:F:311:VAL:HG11	2.05	0.85
1:J:117:PRO:O	1:J:121:GLN:HB2	1.76	0.85
1:O:117:PRO:O	1:O:121:GLN:HB2	1.76	0.85
1:D:117:PRO:O	1:D:121:GLN:HB2	1.76	0.85
1:G:482:VAL:HG21	1:G:572:PRO:HB2	1.57	0.85
1:A:117:PRO:O	1:A:121:GLN:HB2	1.74	0.85
1:E:482:VAL:HG21	1:E:572:PRO:HB2	1.56	0.85
1:M:260:VAL:HG11	1:M:322:LEU:HD21	1.59	0.85
1:A:536:GLU:HB3	1:O:417:LYS:HB2	1.57	0.85
1:D:123:ASN:OD1	1:D:130:ASN:HB2	1.74	0.85
1:L:117:PRO:O	1:L:121:GLN:HB2	1.75	0.85
1:L:510:ARG:HD2	1:L:566:LEU:HD22	1.58	0.85
1:D:394:ASN:HD21	1:E:361:THR:CG2	1.89	0.85
1:H:169:ILE:CD1	1:I:234:LEU:HD21	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:260:VAL:HG11	1:L:322:LEU:HD21	1.59	0.85
1:O:123:ASN:OD1	1:O:130:ASN:HB2	1.75	0.85
1:A:111:SER:HB3	1:B:198:THR:CA	2.07	0.85
1:B:133:HIS:NE2	1:C:114:GLU:HB3	1.92	0.85
1:F:107:VAL:HB	1:F:112:VAL:HG12	1.58	0.85
1:F:466:VAL:HG21	1:F:507:PHE:CE1	2.11	0.85
1:I:176:SER:O	1:I:180:MET:HG2	1.76	0.85
1:K:461:ILE:HG12	1:L:445:GLN:HB2	1.57	0.85
1:E:123:ASN:OD1	1:E:130:ASN:HB2	1.76	0.85
1:L:482:VAL:HG21	1:L:572:PRO:HB2	1.57	0.85
1:N:482:VAL:HG21	1:N:572:PRO:HB2	1.57	0.85
1:G:107:VAL:HB	1:G:112:VAL:HG12	1.58	0.85
1:I:398:ALA:CA	1:J:356:GLY:HA3	2.07	0.85
1:K:510:ARG:HD2	1:K:566:LEU:HD22	1.58	0.85
1:A:482:VAL:HG21	1:A:572:PRO:HB2	1.57	0.85
1:H:115:LEU:HD11	1:H:159:VAL:HG21	1.59	0.84
1:K:117:PRO:O	1:K:121:GLN:HB2	1.76	0.84
1:G:135:ASP:HB3	1:H:110:VAL:HG21	1.58	0.84
1:O:510:ARG:HD2	1:O:566:LEU:HD22	1.58	0.84
1:A:466:VAL:HG21	1:A:507:PHE:HE1	1.41	0.84
1:B:111:SER:CB	1:C:198:THR:HA	2.07	0.84
1:E:211:ARG:HA	1:F:243:ASN:HD21	1.41	0.84
1:N:139:VAL:HG21	1:O:162:ALA:C	1.98	0.84
1:B:168:ASP:OD2	1:B:224:ARG:HG2	1.78	0.84
1:C:482:VAL:HG21	1:C:572:PRO:HB2	1.57	0.84
1:E:211:ARG:HA	1:F:243:ASN:ND2	1.91	0.84
1:N:139:VAL:CG1	1:O:162:ALA:O	2.24	0.84
1:F:510:ARG:HD2	1:F:566:LEU:HD22	1.57	0.84
1:G:139:VAL:HG21	1:H:163:GLY:CA	2.08	0.84
1:H:412:LEU:CD1	1:I:540:LYS:O	2.26	0.84
1:E:329:VAL:CG2	1:E:476:ILE:HD11	2.07	0.84
1:I:482:VAL:HG21	1:I:572:PRO:HB2	1.57	0.84
1:K:260:VAL:HG11	1:K:322:LEU:HD21	1.60	0.84
1:K:417:LYS:HB2	1:L:536:GLU:HB3	1.59	0.84
1:L:141:LEU:HD22	1:M:159:VAL:HG22	1.60	0.84
1:G:176:SER:O	1:G:180:MET:HG2	1.78	0.84
1:H:136:PRO:CG	1:I:110:VAL:HG13	2.08	0.84
1:K:466:VAL:HG21	1:K:507:PHE:HE1	1.43	0.84
1:K:482:VAL:HG21	1:K:572:PRO:HB2	1.57	0.84
1:E:301:ASN:HB2	1:F:431:ASN:CG	1.97	0.84
1:F:523:THR:OG1	1:F:571:ARG:HD3	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:106:PRO:HB3	1:G:139:VAL:HG12	1.58	0.84
1:G:176:SER:OG	1:H:308:GLN:HG2	1.77	0.84
1:H:482:VAL:HG21	1:H:572:PRO:HB2	1.56	0.84
1:H:510:ARG:HD2	1:H:566:LEU:HD22	1.58	0.84
1:A:328:GLN:HE21	1:B:517:LEU:H	1.26	0.84
1:E:117:PRO:O	1:E:121:GLN:HB2	1.76	0.84
1:M:168:ASP:OD2	1:M:224:ARG:HG2	1.78	0.84
1:A:260:VAL:HG11	1:A:322:LEU:HD21	1.59	0.84
1:D:133:HIS:NE2	1:E:114:GLU:HB3	1.93	0.84
1:H:106:PRO:HB3	1:H:139:VAL:HG12	1.59	0.84
1:J:466:VAL:HG21	1:J:507:PHE:HE1	1.42	0.84
1:C:265:SER:HB3	1:C:292:LEU:HD22	1.60	0.83
1:I:177:ALA:HB1	1:I:208:ALA:HB1	1.57	0.83
1:I:377:TYR:OH	1:J:375:LYS:CG	2.26	0.83
1:D:108:ARG:HD3	1:E:220:GLU:OE1	1.77	0.83
1:G:510:ARG:HD2	1:G:566:LEU:HD22	1.58	0.83
1:H:260:VAL:HG11	1:H:322:LEU:HD21	1.60	0.83
1:M:482:VAL:HG21	1:M:572:PRO:HB2	1.57	0.83
1:B:466:VAL:HG21	1:B:507:PHE:HE1	1.42	0.83
1:C:466:VAL:HG21	1:C:507:PHE:HE1	1.42	0.83
1:E:510:ARG:HD2	1:E:566:LEU:HD22	1.59	0.83
1:E:575:LEU:HD13	1:E:581:TYR:HD1	1.41	0.83
1:J:168:ASP:OD2	1:J:224:ARG:HG2	1.78	0.83
1:C:260:VAL:HG11	1:C:322:LEU:HD21	1.59	0.83
1:G:135:ASP:CG	1:H:110:VAL:HG21	1.97	0.83
1:H:167:VAL:O	1:I:233:GLN:CD	2.16	0.83
1:K:104:VAL:CG2	1:L:158:ARG:HD2	2.09	0.83
1:K:168:ASP:OD2	1:K:224:ARG:HG2	1.79	0.83
1:N:523:THR:OG1	1:N:571:ARG:HD3	1.78	0.83
1:O:523:THR:OG1	1:O:571:ARG:HD3	1.79	0.83
1:C:510:ARG:HD2	1:C:566:LEU:HD22	1.58	0.83
1:D:510:ARG:HD2	1:D:566:LEU:HD22	1.58	0.83
1:H:176:SER:O	1:H:180:MET:HG2	1.78	0.83
1:H:466:VAL:HG21	1:H:507:PHE:HE1	1.44	0.83
1:I:510:ARG:HD2	1:I:566:LEU:HD22	1.58	0.83
1:M:265:SER:HB3	1:M:292:LEU:HD22	1.60	0.83
1:N:260:VAL:HG11	1:N:322:LEU:HD21	1.60	0.83
1:A:510:ARG:HD2	1:A:566:LEU:HD22	1.58	0.83
1:C:523:THR:OG1	1:C:571:ARG:HD3	1.78	0.83
1:D:265:SER:HB3	1:D:292:LEU:HD22	1.60	0.83
1:H:141:LEU:HD13	1:I:158:ARG:HG3	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:482:VAL:HG21	1:J:572:PRO:HB2	1.57	0.83
1:N:466:VAL:HG21	1:N:507:PHE:HE1	1.43	0.83
1:B:260:VAL:HG11	1:B:322:LEU:HD21	1.59	0.83
1:D:523:THR:OG1	1:D:571:ARG:HD3	1.78	0.83
1:F:115:LEU:HD21	1:F:159:VAL:HG21	1.60	0.83
1:G:141:LEU:HD22	1:H:159:VAL:HG22	1.61	0.83
1:G:207:VAL:HB	1:G:216:VAL:HB	1.60	0.83
1:M:575:LEU:HD13	1:M:581:TYR:HD1	1.44	0.83
1:O:260:VAL:HG11	1:O:322:LEU:HD21	1.60	0.83
1:F:417:LYS:HB2	1:G:536:GLU:HB3	1.60	0.83
1:G:113:ARG:HG3	1:H:197:ASN:O	1.78	0.83
1:O:168:ASP:OD2	1:O:224:ARG:HG2	1.79	0.83
1:B:265:SER:HB3	1:B:292:LEU:HD22	1.60	0.83
1:D:106:PRO:HB3	1:D:139:VAL:HG12	1.60	0.83
1:G:523:THR:OG1	1:G:571:ARG:HD3	1.78	0.83
1:J:510:ARG:HD2	1:J:566:LEU:HD22	1.58	0.83
1:N:575:LEU:HD13	1:N:581:TYR:HD1	1.44	0.83
1:D:168:ASP:OD2	1:D:224:ARG:HG2	1.79	0.83
1:F:123:ASN:OD1	1:F:130:ASN:HB2	1.78	0.83
1:G:139:VAL:CG2	1:H:162:ALA:O	2.25	0.83
1:H:265:SER:HB3	1:H:292:LEU:HD22	1.60	0.83
1:K:523:THR:OG1	1:K:571:ARG:HD3	1.79	0.83
1:L:115:LEU:HD11	1:L:159:VAL:HG21	1.61	0.83
1:A:168:ASP:OD2	1:A:224:ARG:HG2	1.78	0.82
1:H:523:THR:OG1	1:H:571:ARG:HD3	1.78	0.82
1:N:461:ILE:HG12	1:O:445:GLN:HB2	1.61	0.82
1:E:107:VAL:HB	1:E:112:VAL:HG12	1.60	0.82
1:G:301:ASN:HB2	1:H:431:ASN:CG	1.99	0.82
1:I:207:VAL:HB	1:I:216:VAL:HB	1.59	0.82
1:K:106:PRO:HB3	1:K:139:VAL:HG12	1.60	0.82
1:L:265:SER:HB3	1:L:292:LEU:HD22	1.60	0.82
1:L:466:VAL:HG21	1:L:507:PHE:HE1	1.42	0.82
1:N:207:VAL:HB	1:N:216:VAL:HB	1.61	0.82
1:D:575:LEU:HD13	1:D:581:TYR:HD1	1.45	0.82
1:K:176:SER:O	1:K:180:MET:HG2	1.80	0.82
1:N:176:SER:O	1:N:180:MET:HG2	1.80	0.82
1:N:265:SER:HB3	1:N:292:LEU:HD22	1.61	0.82
1:A:176:SER:O	1:A:180:MET:HG2	1.79	0.82
1:A:207:VAL:HB	1:A:216:VAL:HB	1.61	0.82
1:B:510:ARG:HD2	1:B:566:LEU:HD22	1.58	0.82
1:B:523:THR:OG1	1:B:571:ARG:HD3	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:168:ASP:OD2	1:C:224:ARG:HG2	1.78	0.82
1:D:260:VAL:HG11	1:D:322:LEU:HD21	1.61	0.82
1:L:575:LEU:HD13	1:L:581:TYR:HD1	1.44	0.82
1:O:176:SER:O	1:O:180:MET:HG2	1.80	0.82
1:E:260:VAL:HG11	1:E:322:LEU:HD21	1.61	0.82
1:A:115:LEU:HD11	1:A:159:VAL:HG21	1.62	0.82
1:E:523:THR:OG1	1:E:571:ARG:HD3	1.79	0.82
1:H:136:PRO:HB2	1:I:202:LEU:CD2	2.08	0.82
1:M:207:VAL:HB	1:M:216:VAL:HB	1.61	0.82
1:A:491:SER:HB2	1:A:509:THR:HG22	1.60	0.82
1:A:523:THR:OG1	1:A:571:ARG:HD3	1.79	0.82
1:F:176:SER:O	1:F:180:MET:HG2	1.79	0.82
1:B:176:SER:O	1:B:180:MET:HG2	1.80	0.82
1:E:610:ASP:O	1:G:534:THR:HG21	1.80	0.82
1:L:168:ASP:OD2	1:L:224:ARG:HG2	1.78	0.82
1:L:523:THR:OG1	1:L:571:ARG:HD3	1.79	0.82
1:M:523:THR:OG1	1:M:571:ARG:HD3	1.79	0.82
1:O:207:VAL:HB	1:O:216:VAL:HB	1.61	0.82
1:O:265:SER:HB3	1:O:292:LEU:HD22	1.60	0.82
1:O:575:LEU:HD13	1:O:581:TYR:HD1	1.44	0.82
1:C:107:VAL:HB	1:C:112:VAL:HG12	1.62	0.82
1:H:136:PRO:HD2	1:I:110:VAL:CB	2.09	0.82
1:J:491:SER:HB2	1:J:509:THR:HG22	1.61	0.82
1:M:466:VAL:HG21	1:M:507:PHE:HE1	1.43	0.82
1:O:466:VAL:HG21	1:O:507:PHE:HE1	1.43	0.82
1:I:258:VAL:O	1:I:262:LYS:HG2	1.80	0.82
1:J:523:THR:OG1	1:J:571:ARG:HD3	1.79	0.82
1:L:207:VAL:HB	1:L:216:VAL:HB	1.61	0.82
1:N:168:ASP:OD2	1:N:224:ARG:HG2	1.79	0.82
1:O:491:SER:HB2	1:O:509:THR:HG22	1.61	0.82
1:F:106:PRO:HB3	1:F:139:VAL:HG12	1.60	0.81
1:H:205:LYS:HZ3	1:I:188:ASN:ND2	1.77	0.81
1:H:491:SER:HB2	1:H:509:THR:HG22	1.61	0.81
1:I:260:VAL:HG11	1:I:322:LEU:HD21	1.62	0.81
1:M:107:VAL:HB	1:M:112:VAL:HG12	1.62	0.81
1:M:176:SER:O	1:M:180:MET:HG2	1.80	0.81
1:A:265:SER:HB3	1:A:292:LEU:HD22	1.60	0.81
1:B:491:SER:HB2	1:B:509:THR:HG22	1.61	0.81
1:E:176:SER:O	1:E:180:MET:HG2	1.79	0.81
1:H:141:LEU:CD1	1:I:158:ARG:HG3	2.10	0.81
1:I:466:VAL:HG21	1:I:507:PHE:HE1	1.42	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:107:VAL:HB	1:B:112:VAL:HG12	1.62	0.81
1:D:107:VAL:HB	1:D:112:VAL:HG12	1.62	0.81
1:E:466:VAL:HG21	1:E:507:PHE:HE1	1.44	0.81
1:F:168:ASP:OD2	1:F:224:ARG:HG2	1.80	0.81
1:F:207:VAL:HB	1:F:216:VAL:HB	1.60	0.81
1:F:260:VAL:HG11	1:F:322:LEU:HD21	1.63	0.81
1:J:107:VAL:HB	1:J:112:VAL:HG12	1.61	0.81
1:J:176:SER:O	1:J:180:MET:HG2	1.80	0.81
1:L:106:PRO:HB3	1:L:139:VAL:HG12	1.62	0.81
1:L:176:SER:O	1:L:180:MET:HG2	1.80	0.81
1:M:491:SER:HB2	1:M:509:THR:HG22	1.61	0.81
1:N:106:PRO:HB3	1:N:139:VAL:HG12	1.61	0.81
1:C:176:SER:O	1:C:180:MET:HG2	1.80	0.81
1:D:207:VAL:HB	1:D:216:VAL:HB	1.60	0.81
1:G:108:ARG:CD	1:H:220:GLU:OE1	2.27	0.81
1:G:123:ASN:OD1	1:G:130:ASN:HB2	1.80	0.81
1:K:107:VAL:HB	1:K:112:VAL:HG12	1.62	0.81
1:K:265:SER:HB3	1:K:292:LEU:HD22	1.60	0.81
1:D:466:VAL:HG21	1:D:507:PHE:HE1	1.43	0.81
1:F:491:SER:HB2	1:F:509:THR:HG22	1.61	0.81
1:G:115:LEU:HD21	1:G:159:VAL:HG21	1.63	0.81
1:G:168:ASP:OD2	1:G:224:ARG:HG2	1.80	0.81
1:G:443:PRO:HA	1:G:462:GLU:O	1.81	0.81
1:G:265:SER:HB3	1:G:292:LEU:HD22	1.61	0.81
1:G:491:SER:HB2	1:G:509:THR:HG22	1.62	0.81
1:F:265:SER:HB3	1:F:292:LEU:HD22	1.61	0.81
1:G:260:VAL:HG11	1:G:322:LEU:HD21	1.63	0.81
1:I:523:THR:OG1	1:I:571:ARG:HD3	1.79	0.81
1:N:491:SER:HB2	1:N:509:THR:HG22	1.61	0.81
1:J:265:SER:HB3	1:J:292:LEU:HD22	1.60	0.81
1:D:176:SER:O	1:D:180:MET:HG2	1.80	0.81
1:E:491:SER:HB2	1:E:509:THR:HG22	1.61	0.81
1:I:265:SER:HB3	1:I:292:LEU:HD22	1.62	0.81
1:C:575:LEU:HD13	1:C:581:TYR:HD1	1.46	0.81
1:H:205:LYS:HD3	1:I:186:ASN:O	1.80	0.81
1:K:491:SER:HB2	1:K:509:THR:HG22	1.61	0.81
1:C:491:SER:HB2	1:C:509:THR:HG22	1.61	0.80
1:E:168:ASP:OD2	1:E:224:ARG:HG2	1.80	0.80
1:O:107:VAL:HB	1:O:112:VAL:HG12	1.63	0.80
1:D:491:SER:HB2	1:D:509:THR:HG22	1.61	0.80
1:E:207:VAL:HB	1:E:216:VAL:HB	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:443:PRO:HA	1:F:462:GLU:O	1.81	0.80
1:L:491:SER:HB2	1:L:509:THR:HG22	1.60	0.80
1:N:107:VAL:HB	1:N:112:VAL:HG12	1.62	0.80
1:C:207:VAL:HB	1:C:216:VAL:HB	1.62	0.80
1:E:265:SER:HB3	1:E:292:LEU:HD22	1.62	0.80
1:G:575:LEU:HD13	1:G:581:TYR:HD1	1.44	0.80
1:K:575:LEU:HD13	1:K:581:TYR:HD1	1.44	0.80
1:A:328:GLN:NE2	1:B:517:LEU:H	1.79	0.80
1:A:510:ARG:HD2	1:A:566:LEU:CD2	2.12	0.80
1:J:115:LEU:HD22	1:J:118:LEU:HD13	1.63	0.80
1:O:106:PRO:HB3	1:O:139:VAL:HG12	1.61	0.80
1:A:338:ILE:HD11	1:O:596:GLN:HE21	1.46	0.80
1:B:207:VAL:HB	1:B:216:VAL:HB	1.61	0.80
1:G:466:VAL:HG21	1:G:507:PHE:HE1	1.47	0.80
1:H:136:PRO:HD3	1:I:110:VAL:HG11	1.61	0.80
1:I:440:GLN:HB2	1:J:507:PHE:O	1.80	0.80
1:J:245:ARG:HD3	1:J:247:PHE:CZ	2.17	0.80
1:F:575:LEU:HD13	1:F:581:TYR:HD1	1.46	0.80
1:I:491:SER:HB2	1:I:509:THR:HG22	1.62	0.80
1:E:258:VAL:O	1:E:262:LYS:HG2	1.82	0.80
1:H:328:GLN:HE21	1:I:517:LEU:H	1.30	0.80
1:K:207:VAL:HB	1:K:216:VAL:HB	1.61	0.80
1:M:106:PRO:HB3	1:M:139:VAL:HG12	1.63	0.80
1:B:510:ARG:HD2	1:B:566:LEU:CD2	2.11	0.80
1:H:205:LYS:NZ	1:I:188:ASN:HD22	1.80	0.80
1:K:510:ARG:HD2	1:K:566:LEU:CD2	2.12	0.80
1:M:510:ARG:HD2	1:M:566:LEU:CD2	2.12	0.80
1:A:445:GLN:HB2	1:O:461:ILE:CG1	2.11	0.80
1:L:118:LEU:HD22	1:L:119:LEU:HD23	1.64	0.80
1:N:443:PRO:HA	1:N:462:GLU:O	1.82	0.80
1:O:510:ARG:HD2	1:O:566:LEU:CD2	2.12	0.80
1:A:115:LEU:HD22	1:A:118:LEU:HD13	1.62	0.79
1:F:258:VAL:O	1:F:262:LYS:HG2	1.82	0.79
1:H:167:VAL:CG2	1:I:230:MET:CE	2.60	0.79
1:H:207:VAL:HB	1:H:216:VAL:HB	1.64	0.79
1:J:443:PRO:HA	1:J:462:GLU:O	1.83	0.79
1:K:118:LEU:HD22	1:K:119:LEU:HD23	1.64	0.79
1:K:443:PRO:HA	1:K:462:GLU:O	1.82	0.79
1:A:106:PRO:HB3	1:A:139:VAL:HG12	1.62	0.79
1:D:340:ASP:HB2	1:D:416:THR:O	1.82	0.79
1:I:593:ARG:NH1	1:I:597:LEU:HD11	1.98	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:141:LEU:CD2	1:L:159:VAL:HG22	2.11	0.79
1:A:107:VAL:HB	1:A:112:VAL:HG12	1.64	0.79
1:B:575:LEU:HD13	1:B:581:TYR:HD1	1.45	0.79
1:C:340:ASP:HB2	1:C:416:THR:O	1.83	0.79
1:H:245:ARG:HD3	1:H:247:PHE:CZ	2.17	0.79
1:J:106:PRO:HB3	1:J:139:VAL:HG12	1.64	0.79
1:K:245:ARG:HD3	1:K:247:PHE:CZ	2.17	0.79
1:L:258:VAL:O	1:L:262:LYS:HG2	1.83	0.79
1:N:258:VAL:O	1:N:262:LYS:HG2	1.83	0.79
1:O:118:LEU:HD22	1:O:119:LEU:HD23	1.64	0.79
1:A:169:ILE:HG21	1:B:234:LEU:HD21	1.65	0.79
1:A:245:ARG:HD3	1:A:247:PHE:CZ	2.17	0.79
1:A:507:PHE:O	1:O:440:GLN:HB2	1.81	0.79
1:C:106:PRO:HB3	1:C:139:VAL:HG12	1.64	0.79
1:D:258:VAL:O	1:D:262:LYS:HG2	1.83	0.79
1:J:207:VAL:HB	1:J:216:VAL:HB	1.61	0.79
1:K:340:ASP:HB2	1:K:416:THR:O	1.82	0.79
1:M:118:LEU:HD22	1:M:119:LEU:HD23	1.65	0.79
1:M:258:VAL:O	1:M:262:LYS:HG2	1.83	0.79
1:A:340:ASP:HB2	1:A:416:THR:O	1.83	0.79
1:B:340:ASP:HB2	1:B:416:THR:O	1.83	0.79
1:H:258:VAL:O	1:H:262:LYS:HG2	1.82	0.79
1:L:510:ARG:HD2	1:L:566:LEU:CD2	2.12	0.79
1:N:510:ARG:HD2	1:N:566:LEU:CD2	2.12	0.79
1:O:443:PRO:HA	1:O:462:GLU:O	1.83	0.79
1:A:158:ARG:HD2	1:O:104:VAL:CG2	2.12	0.79
1:B:106:PRO:HB3	1:B:139:VAL:HG12	1.63	0.79
1:D:245:ARG:HD3	1:D:247:PHE:CZ	2.17	0.79
1:G:258:VAL:O	1:G:262:LYS:HG2	1.82	0.79
1:H:108:ARG:HB2	1:I:220:GLU:OE1	1.80	0.79
1:H:167:VAL:HG21	1:I:230:MET:HE1	1.65	0.79
1:I:245:ARG:HD3	1:I:247:PHE:CZ	2.18	0.79
1:K:258:VAL:O	1:K:262:LYS:HG2	1.83	0.79
1:L:340:ASP:HB2	1:L:416:THR:O	1.83	0.79
1:M:245:ARG:HD3	1:M:247:PHE:CZ	2.17	0.79
1:N:245:ARG:HD3	1:N:247:PHE:CZ	2.17	0.79
1:O:491:SER:HB3	1:O:509:THR:HG22	1.65	0.79
1:B:461:ILE:HG12	1:C:445:GLN:HB2	1.64	0.79
1:C:510:ARG:HD2	1:C:566:LEU:CD2	2.11	0.79
1:F:108:ARG:HD3	1:G:220:GLU:OE1	1.81	0.79
1:H:575:LEU:HD13	1:H:581:TYR:HD1	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:118:LEU:HD22	1:N:119:LEU:HD23	1.65	0.79
1:N:491:SER:HB3	1:N:509:THR:HG22	1.65	0.79
1:O:258:VAL:O	1:O:262:LYS:HG2	1.83	0.79
1:C:258:VAL:O	1:C:262:LYS:HG2	1.83	0.79
1:H:581:TYR:CE2	1:I:524:VAL:HG11	2.17	0.79
1:I:394:ASN:HD21	1:J:361:THR:CG2	1.95	0.79
1:J:510:ARG:HD2	1:J:566:LEU:CD2	2.12	0.79
1:K:108:ARG:CD	1:L:220:GLU:OE1	2.31	0.79
1:L:107:VAL:HB	1:L:112:VAL:HG12	1.62	0.79
1:M:340:ASP:HB2	1:M:416:THR:O	1.83	0.79
1:E:106:PRO:HB3	1:E:139:VAL:HG12	1.64	0.79
1:F:340:ASP:HB2	1:F:416:THR:O	1.82	0.79
1:H:443:PRO:HA	1:H:462:GLU:O	1.82	0.79
1:J:258:VAL:O	1:J:262:LYS:HG2	1.83	0.79
1:M:443:PRO:HA	1:M:462:GLU:O	1.83	0.79
1:D:510:ARG:HD2	1:D:566:LEU:CD2	2.12	0.79
1:F:581:TYR:CE2	1:G:524:VAL:HG11	2.18	0.79
1:G:245:ARG:HD3	1:G:247:PHE:CZ	2.18	0.79
1:H:136:PRO:HD2	1:I:110:VAL:CG1	2.12	0.79
1:H:201:LEU:C	1:I:189:LYS:CG	2.51	0.79
1:H:510:ARG:HD2	1:H:566:LEU:CD2	2.12	0.79
1:L:115:LEU:HD22	1:L:118:LEU:HD13	1.65	0.79
1:O:340:ASP:HB2	1:O:416:THR:O	1.83	0.79
1:B:115:LEU:HD22	1:B:118:LEU:HD13	1.63	0.78
1:B:245:ARG:HD3	1:B:247:PHE:CZ	2.17	0.78
1:F:510:ARG:HD2	1:F:566:LEU:CD2	2.12	0.78
1:I:211:ARG:HD2	1:J:179:GLU:HB2	1.63	0.78
1:I:510:ARG:HD2	1:I:566:LEU:CD2	2.12	0.78
1:C:245:ARG:HD3	1:C:247:PHE:CZ	2.17	0.78
1:G:340:ASP:HB2	1:G:416:THR:O	1.82	0.78
1:N:340:ASP:HB2	1:N:416:THR:O	1.83	0.78
1:A:329:VAL:CG2	1:A:476:ILE:HD11	2.14	0.78
1:A:580:VAL:O	1:A:584:ILE:HG12	1.83	0.78
1:E:118:LEU:HD22	1:E:119:LEU:HD23	1.64	0.78
1:E:245:ARG:HD3	1:E:247:PHE:CZ	2.17	0.78
1:H:118:LEU:HD22	1:H:119:LEU:HD23	1.64	0.78
1:I:123:ASN:OD1	1:I:130:ASN:HB2	1.84	0.78
1:J:118:LEU:HD22	1:J:119:LEU:HD23	1.65	0.78
1:J:340:ASP:HB2	1:J:416:THR:O	1.83	0.78
1:A:575:LEU:HD13	1:A:581:TYR:HD1	1.45	0.78
1:B:258:VAL:O	1:B:262:LYS:HG2	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:580:VAL:O	1:F:584:ILE:HG12	1.84	0.78
1:H:205:LYS:HZ3	1:I:188:ASN:HD22	1.28	0.78
1:H:340:ASP:HB2	1:H:416:THR:O	1.83	0.78
1:H:580:VAL:O	1:H:584:ILE:HG12	1.84	0.78
1:O:245:ARG:HD3	1:O:247:PHE:CZ	2.17	0.78
1:O:580:VAL:O	1:O:584:ILE:HG12	1.84	0.78
1:B:443:PRO:HA	1:B:462:GLU:O	1.83	0.78
1:D:580:VAL:O	1:D:584:ILE:HG12	1.84	0.78
1:F:245:ARG:HD3	1:F:247:PHE:CZ	2.18	0.78
1:G:118:LEU:HD22	1:G:119:LEU:HD23	1.64	0.78
1:J:580:VAL:O	1:J:584:ILE:HG12	1.84	0.78
1:K:135:ASP:HB3	1:L:110:VAL:HG21	1.65	0.78
1:L:245:ARG:HD3	1:L:247:PHE:CZ	2.17	0.78
1:L:108:ARG:HD3	1:M:220:GLU:OE1	1.82	0.78
1:B:118:LEU:HD22	1:B:119:LEU:HD23	1.65	0.78
1:C:115:LEU:HD22	1:C:118:LEU:HD13	1.64	0.78
1:F:211:ARG:HA	1:G:243:ASN:ND2	1.99	0.78
1:L:461:ILE:HG12	1:M:445:GLN:HB2	1.66	0.78
1:L:580:VAL:O	1:L:584:ILE:HG12	1.84	0.78
1:M:491:SER:HB3	1:M:509:THR:HG22	1.66	0.78
1:A:443:PRO:HA	1:A:462:GLU:O	1.83	0.78
1:E:491:SER:HB3	1:E:509:THR:HG22	1.65	0.78
1:F:461:ILE:HD11	1:G:445:GLN:O	1.84	0.78
1:H:596:GLN:HE21	1:I:338:ILE:HD11	1.49	0.78
1:I:328:GLN:NE2	1:J:517:LEU:H	1.82	0.78
1:J:575:LEU:HD13	1:J:581:TYR:HD1	1.44	0.78
1:E:443:PRO:HA	1:E:462:GLU:O	1.83	0.78
1:F:608:SER:N	1:F:609:PRO:HD3	1.99	0.78
1:G:329:VAL:CG2	1:G:476:ILE:HD11	2.13	0.78
1:H:337:GLU:HB2	1:H:566:LEU:HD13	1.66	0.78
1:I:443:PRO:HA	1:I:462:GLU:O	1.83	0.78
1:L:443:PRO:HA	1:L:462:GLU:O	1.83	0.78
1:A:104:VAL:HG11	1:B:162:ALA:HB1	1.64	0.78
1:B:491:SER:HB3	1:B:509:THR:HG22	1.66	0.78
1:M:115:LEU:HD22	1:M:118:LEU:HD13	1.65	0.78
1:A:118:LEU:HD22	1:A:119:LEU:HD23	1.65	0.77
1:C:443:PRO:HA	1:C:462:GLU:O	1.83	0.77
1:C:491:SER:HB3	1:C:509:THR:HG22	1.66	0.77
1:D:491:SER:HB3	1:D:509:THR:HG22	1.65	0.77
1:F:466:VAL:HG21	1:F:507:PHE:HE1	1.45	0.77
1:I:258:VAL:CG2	1:I:296:ALA:HB2	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:608:SER:N	1:M:609:PRO:HD3	1.99	0.77
1:B:580:VAL:O	1:B:584:ILE:HG12	1.84	0.77
1:C:118:LEU:HD22	1:C:119:LEU:HD23	1.65	0.77
1:D:445:GLN:HE21	1:E:503:LEU:CD2	1.98	0.77
1:F:118:LEU:HD22	1:F:119:LEU:HD23	1.65	0.77
1:K:491:SER:HB3	1:K:509:THR:HG22	1.66	0.77
1:L:491:SER:HB3	1:L:509:THR:HG22	1.66	0.77
1:A:258:VAL:O	1:A:262:LYS:HG2	1.83	0.77
1:E:340:ASP:HB2	1:E:416:THR:O	1.84	0.77
1:E:580:VAL:O	1:E:584:ILE:HG12	1.83	0.77
1:G:491:SER:HB3	1:G:509:THR:HG22	1.64	0.77
1:I:461:ILE:HG12	1:J:445:GLN:HB2	1.66	0.77
1:K:115:LEU:HD22	1:K:118:LEU:HD13	1.67	0.77
1:N:580:VAL:O	1:N:584:ILE:HG12	1.84	0.77
1:N:608:SER:N	1:N:609:PRO:HD3	2.00	0.77
1:A:491:SER:HB3	1:A:509:THR:HG22	1.66	0.77
1:B:115:LEU:HD11	1:B:159:VAL:HG21	1.66	0.77
1:E:608:SER:N	1:E:609:PRO:HD3	1.99	0.77
1:F:461:ILE:HG12	1:G:445:GLN:HB2	1.67	0.77
1:F:491:SER:HB3	1:F:509:THR:HG22	1.65	0.77
1:G:136:PRO:CD	1:H:110:VAL:HG13	2.15	0.77
1:O:115:LEU:HD11	1:O:159:VAL:HG21	1.67	0.77
1:D:115:LEU:HD22	1:D:118:LEU:HD13	1.66	0.77
1:D:118:LEU:HD22	1:D:119:LEU:HD23	1.65	0.77
1:G:167:VAL:HG21	1:H:230:MET:HE1	1.67	0.77
1:I:207:VAL:HG21	1:J:186:ASN:CB	2.13	0.77
1:J:337:GLU:HB2	1:J:566:LEU:HD13	1.67	0.77
1:F:329:VAL:CG2	1:F:476:ILE:HD11	2.13	0.77
1:G:608:SER:N	1:G:609:PRO:HD3	1.99	0.77
1:I:580:VAL:O	1:I:584:ILE:HG12	1.84	0.77
1:C:580:VAL:O	1:C:584:ILE:HG12	1.84	0.77
1:E:596:GLN:CG	1:F:338:ILE:HD11	2.15	0.77
1:H:141:LEU:HD13	1:I:158:ARG:CG	2.14	0.77
1:K:580:VAL:O	1:K:584:ILE:HG12	1.84	0.77
1:O:115:LEU:HD22	1:O:118:LEU:HD13	1.66	0.77
1:N:115:LEU:HD22	1:N:118:LEU:HD13	1.66	0.77
1:B:141:LEU:HD22	1:C:159:VAL:HG22	1.67	0.77
1:E:596:GLN:HG2	1:F:338:ILE:HD11	1.67	0.77
1:F:593:ARG:NH1	1:F:597:LEU:HD11	2.00	0.77
1:H:169:ILE:HD12	1:I:234:LEU:CD2	2.11	0.77
1:H:328:GLN:HE22	1:I:517:LEU:C	1.86	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:337:GLU:HB2	1:I:566:LEU:HD13	1.67	0.77
1:I:340:ASP:HB2	1:I:416:THR:O	1.83	0.77
1:D:329:VAL:CG2	1:D:476:ILE:HD11	2.15	0.77
1:D:443:PRO:HA	1:D:462:GLU:O	1.83	0.77
1:D:608:SER:N	1:D:609:PRO:HD3	2.00	0.77
1:F:440:GLN:HB2	1:G:507:PHE:O	1.85	0.77
1:J:491:SER:HB3	1:J:509:THR:HG22	1.66	0.77
1:K:115:LEU:HD21	1:K:159:VAL:HG21	1.67	0.77
1:A:104:VAL:HG11	1:B:162:ALA:CB	2.14	0.76
1:G:292:LEU:HG	1:G:307:ALA:HB2	1.67	0.76
1:G:510:ARG:HD2	1:G:566:LEU:CD2	2.14	0.76
1:G:580:VAL:O	1:G:584:ILE:HG12	1.84	0.76
1:H:329:VAL:CG2	1:H:476:ILE:HD11	2.15	0.76
1:I:261:LEU:HD12	1:I:303:LEU:HD21	1.66	0.76
1:L:337:GLU:HB2	1:L:566:LEU:HD13	1.67	0.76
1:L:608:SER:N	1:L:609:PRO:HD3	2.00	0.76
1:O:608:SER:N	1:O:609:PRO:HD3	2.00	0.76
1:B:608:SER:N	1:B:609:PRO:HD3	2.00	0.76
1:C:608:SER:N	1:C:609:PRO:HD3	2.00	0.76
1:K:329:VAL:CG2	1:K:476:ILE:HD11	2.15	0.76
1:M:337:GLU:HB2	1:M:566:LEU:HD13	1.67	0.76
1:B:108:ARG:HD3	1:C:220:GLU:OE1	1.85	0.76
1:H:115:LEU:HD22	1:H:118:LEU:HD13	1.68	0.76
1:H:491:SER:HB3	1:H:509:THR:HG22	1.65	0.76
1:I:258:VAL:HG23	1:I:296:ALA:HB2	1.67	0.76
1:K:337:GLU:HB2	1:K:566:LEU:HD13	1.67	0.76
1:L:329:VAL:CG2	1:L:476:ILE:HD11	2.15	0.76
1:M:329:VAL:CG2	1:M:476:ILE:HD11	2.15	0.76
1:D:337:GLU:HB2	1:D:566:LEU:HD13	1.67	0.76
1:F:115:LEU:HD22	1:F:118:LEU:HD13	1.68	0.76
1:I:491:SER:HB3	1:I:509:THR:HG22	1.66	0.76
1:M:580:VAL:O	1:M:584:ILE:HG12	1.84	0.76
1:N:337:GLU:HB2	1:N:566:LEU:HD13	1.67	0.76
1:A:517:LEU:H	1:O:328:GLN:HE21	1.34	0.76
1:E:115:LEU:HD21	1:E:159:VAL:HG21	1.68	0.76
1:M:440:GLN:HB2	1:N:507:PHE:O	1.85	0.76
1:N:115:LEU:HD21	1:N:159:VAL:HG21	1.67	0.76
1:G:337:GLU:HB2	1:G:566:LEU:HD13	1.68	0.76
1:H:608:SER:N	1:H:609:PRO:HD3	2.00	0.76
1:I:118:LEU:HD22	1:I:119:LEU:HD23	1.67	0.76
1:I:207:VAL:CG2	1:J:186:ASN:HB3	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:115:LEU:HD21	1:J:159:VAL:HG21	1.68	0.76
1:D:115:LEU:HD21	1:D:159:VAL:HG21	1.67	0.76
1:E:115:LEU:HD22	1:E:118:LEU:HD13	1.68	0.76
1:F:337:GLU:HB2	1:F:566:LEU:HD13	1.67	0.76
1:H:328:GLN:NE2	1:I:517:LEU:C	2.39	0.76
1:C:593:ARG:NH1	1:C:597:LEU:HD11	2.01	0.76
1:E:605:TYR:CZ	1:G:548:PRO:HB3	2.21	0.76
1:G:139:VAL:CG2	1:H:163:GLY:CA	2.64	0.76
1:K:328:GLN:HE21	1:L:517:LEU:H	1.34	0.76
1:O:329:VAL:CG2	1:O:476:ILE:HD11	2.15	0.76
1:A:337:GLU:HB2	1:A:566:LEU:HD13	1.67	0.76
1:B:329:VAL:CG2	1:B:476:ILE:HD11	2.16	0.76
1:B:593:ARG:NH1	1:B:597:LEU:HD11	2.01	0.76
1:F:104:VAL:CG2	1:G:158:ARG:HD2	2.16	0.76
1:C:337:GLU:HB2	1:C:566:LEU:HD13	1.67	0.76
1:J:461:ILE:HG12	1:K:445:GLN:HB2	1.68	0.76
1:D:593:ARG:NH1	1:D:597:LEU:HD11	2.01	0.75
1:E:510:ARG:HD2	1:E:566:LEU:CD2	2.15	0.75
1:G:139:VAL:HG21	1:H:162:ALA:O	1.84	0.75
1:H:108:ARG:CD	1:I:220:GLU:OE1	2.34	0.75
1:B:328:GLN:HE21	1:C:517:LEU:H	1.33	0.75
1:G:115:LEU:HD22	1:G:118:LEU:HD13	1.68	0.75
1:G:301:ASN:HB2	1:H:431:ASN:ND2	2.01	0.75
1:I:106:PRO:HB3	1:I:139:VAL:HG12	1.67	0.75
1:N:596:GLN:HE21	1:O:338:ILE:HD11	1.51	0.75
1:A:608:SER:N	1:A:609:PRO:HD3	2.00	0.75
1:E:115:LEU:HD11	1:E:159:VAL:HG21	1.69	0.75
1:F:292:LEU:HG	1:F:307:ALA:HB2	1.68	0.75
1:H:205:LYS:HZ3	1:I:188:ASN:CB	1.99	0.75
1:J:608:SER:N	1:J:609:PRO:HD3	2.00	0.75
1:K:608:SER:N	1:K:609:PRO:HD3	2.00	0.75
1:N:329:VAL:CG2	1:N:476:ILE:HD11	2.15	0.75
1:B:337:GLU:HB2	1:B:566:LEU:HD13	1.67	0.75
1:G:136:PRO:HD2	1:H:110:VAL:HG13	1.66	0.75
1:J:329:VAL:CG2	1:J:476:ILE:HD11	2.16	0.75
1:O:337:GLU:HB2	1:O:566:LEU:HD13	1.67	0.75
1:C:329:VAL:CG2	1:C:476:ILE:HD11	2.16	0.75
1:C:440:GLN:HB2	1:D:507:PHE:O	1.85	0.75
1:H:201:LEU:O	1:I:189:LYS:CG	2.35	0.75
1:I:608:SER:N	1:I:609:PRO:HD3	2.00	0.75
1:N:593:ARG:NH1	1:N:597:LEU:HD11	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:593:ARG:NH1	1:O:597:LEU:HD11	2.02	0.75
1:I:396:MET:HA	1:J:358:THR:HA	1.68	0.75
1:J:593:ARG:NH1	1:J:597:LEU:HD11	2.02	0.75
1:A:609:PRO:HD2	1:A:609:PRO:O	1.85	0.75
1:C:581:TYR:CE2	1:D:524:VAL:HG11	2.21	0.75
1:E:292:LEU:HG	1:E:307:ALA:HB2	1.69	0.75
1:G:417:LYS:HB2	1:H:536:GLU:HB3	1.69	0.75
1:H:292:LEU:HG	1:H:307:ALA:HB2	1.68	0.75
1:H:593:ARG:NH1	1:H:597:LEU:HD11	2.01	0.75
1:I:335:ILE:O	1:I:421:LEU:HA	1.87	0.75
1:I:394:ASN:HD21	1:J:361:THR:HB	1.50	0.74
1:I:328:GLN:HE21	1:J:517:LEU:H	1.35	0.74
1:A:258:VAL:CG2	1:A:296:ALA:HB2	2.16	0.74
1:G:299:THR:HB	1:H:326:ARG:CZ	2.16	0.74
1:G:394:ASN:OD1	1:H:360:PHE:HA	1.88	0.74
1:I:575:LEU:HD13	1:I:581:TYR:HD1	1.49	0.74
1:L:440:GLN:HB2	1:M:507:PHE:O	1.86	0.74
1:A:220:GLU:OE1	1:O:108:ARG:CD	2.35	0.74
1:J:335:ILE:O	1:J:421:LEU:HA	1.88	0.74
1:K:335:ILE:O	1:K:421:LEU:HA	1.88	0.74
1:F:141:LEU:HD22	1:G:159:VAL:HG22	1.69	0.74
1:G:581:TYR:CE2	1:H:524:VAL:HG11	2.23	0.74
1:G:593:ARG:NH1	1:G:597:LEU:HD11	2.01	0.74
1:I:418:SER:HA	1:J:534:THR:O	1.88	0.74
1:A:492:SER:O	1:A:507:PHE:HA	1.88	0.74
1:A:593:ARG:NH1	1:A:597:LEU:HD11	2.03	0.74
1:C:258:VAL:CG2	1:C:296:ALA:HB2	2.18	0.74
1:F:299:THR:HB	1:G:326:ARG:CZ	2.17	0.74
1:G:402:GLN:HB3	1:G:405:TRP:CZ2	2.23	0.74
1:H:205:LYS:NZ	1:I:188:ASN:HB2	2.02	0.74
1:C:115:LEU:HD11	1:C:159:VAL:HG21	1.70	0.74
1:H:104:VAL:HG23	1:I:158:ARG:CZ	2.17	0.74
1:J:440:GLN:HB2	1:K:507:PHE:O	1.86	0.74
1:N:440:GLN:HB2	1:O:507:PHE:O	1.87	0.74
1:A:159:VAL:HG22	1:O:141:LEU:CD2	2.17	0.74
1:A:335:ILE:O	1:A:421:LEU:HA	1.88	0.74
1:B:335:ILE:O	1:B:421:LEU:HA	1.88	0.74
1:C:461:ILE:HG12	1:D:445:GLN:HB2	1.70	0.74
1:E:609:PRO:HD2	1:E:609:PRO:O	1.86	0.74
1:D:258:VAL:CG2	1:D:296:ALA:HB2	2.17	0.74
1:F:596:GLN:HE21	1:G:338:ILE:HD11	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:492:SER:O	1:J:507:PHE:HA	1.88	0.74
1:M:593:ARG:NH1	1:M:597:LEU:HD11	2.02	0.74
1:E:337:GLU:HB2	1:E:566:LEU:HD13	1.69	0.74
1:H:136:PRO:HD2	1:I:110:VAL:HG13	1.68	0.74
1:I:492:SER:O	1:I:507:PHE:HA	1.88	0.74
1:L:335:ILE:O	1:L:421:LEU:HA	1.88	0.74
1:M:115:LEU:HD11	1:M:159:VAL:HG21	1.70	0.74
1:C:335:ILE:O	1:C:421:LEU:HA	1.88	0.73
1:F:402:GLN:HB3	1:F:405:TRP:CZ2	2.23	0.73
1:H:104:VAL:HG21	1:I:158:ARG:CD	2.16	0.73
1:H:258:VAL:HG23	1:H:296:ALA:HB2	1.69	0.73
1:H:335:ILE:O	1:H:421:LEU:HA	1.88	0.73
1:H:492:SER:O	1:H:507:PHE:HA	1.88	0.73
1:I:292:LEU:HG	1:I:307:ALA:HB2	1.70	0.73
1:K:111:SER:HB3	1:L:198:THR:CA	2.16	0.73
1:K:596:GLN:HE21	1:L:338:ILE:HD11	1.52	0.73
1:M:184:VAL:O	1:M:187:LEU:HB3	1.89	0.73
1:N:184:VAL:O	1:N:187:LEU:HB3	1.88	0.73
1:O:258:VAL:CG2	1:O:296:ALA:HB2	2.18	0.73
1:B:258:VAL:CG2	1:B:296:ALA:HB2	2.18	0.73
1:F:258:VAL:CG2	1:F:296:ALA:HB2	2.17	0.73
1:F:258:VAL:HG23	1:F:296:ALA:HB2	1.69	0.73
1:I:207:VAL:HG11	1:J:186:ASN:HD22	1.53	0.73
1:K:390:ALA:O	1:L:359:GLN:NE2	2.20	0.73
1:M:492:SER:O	1:M:507:PHE:HA	1.88	0.73
1:A:517:LEU:H	1:O:328:GLN:NE2	1.86	0.73
1:B:440:GLN:HB2	1:C:507:PHE:O	1.87	0.73
1:H:136:PRO:CB	1:I:202:LEU:HD22	2.16	0.73
1:N:258:VAL:CG2	1:N:296:ALA:HB2	2.18	0.73
1:F:139:VAL:HG21	1:G:162:ALA:O	1.88	0.73
1:H:258:VAL:CG2	1:H:296:ALA:HB2	2.17	0.73
1:H:402:GLN:HB3	1:H:405:TRP:CZ2	2.24	0.73
1:N:492:SER:O	1:N:507:PHE:HA	1.89	0.73
1:O:335:ILE:O	1:O:421:LEU:HA	1.88	0.73
1:F:108:ARG:CD	1:G:220:GLU:OE1	2.35	0.73
1:K:440:GLN:HB2	1:L:507:PHE:O	1.88	0.73
1:B:609:PRO:O	1:B:609:PRO:HD2	1.89	0.73
1:G:492:SER:O	1:G:507:PHE:HA	1.89	0.73
1:H:205:LYS:NZ	1:I:188:ASN:ND2	2.35	0.73
1:K:492:SER:O	1:K:507:PHE:HA	1.89	0.73
1:O:184:VAL:O	1:O:187:LEU:HB3	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:492:SER:O	1:O:507:PHE:HA	1.89	0.73
1:D:335:ILE:O	1:D:421:LEU:HA	1.88	0.73
1:D:394:ASN:HB3	1:D:412:LEU:HD22	1.71	0.73
1:K:593:ARG:NH1	1:K:597:LEU:HD11	2.02	0.73
1:M:581:TYR:CE2	1:N:524:VAL:HG11	2.23	0.73
1:O:292:LEU:HG	1:O:307:ALA:HB2	1.71	0.73
1:A:110:VAL:HG21	1:O:135:ASP:HB3	1.71	0.73
1:I:395:GLY:O	1:J:358:THR:HA	1.89	0.73
1:A:292:LEU:HG	1:A:307:ALA:HB2	1.71	0.73
1:C:328:GLN:HE21	1:D:517:LEU:H	1.34	0.73
1:F:335:ILE:O	1:F:421:LEU:HA	1.88	0.73
1:G:135:ASP:HB3	1:H:110:VAL:CG2	2.18	0.73
1:H:301:ASN:HB2	1:I:431:ASN:CG	2.08	0.73
1:I:609:PRO:HD2	1:I:609:PRO:O	1.89	0.73
1:L:184:VAL:O	1:L:187:LEU:HB3	1.89	0.73
1:L:593:ARG:NH1	1:L:597:LEU:HD11	2.02	0.73
1:M:115:LEU:HD21	1:M:159:VAL:HG21	1.70	0.73
1:A:361:THR:HB	1:O:394:ASN:HD21	1.54	0.73
1:B:492:SER:O	1:B:507:PHE:HA	1.88	0.73
1:D:258:VAL:HG23	1:D:296:ALA:HB2	1.69	0.73
1:D:292:LEU:HG	1:D:307:ALA:HB2	1.70	0.73
1:E:335:ILE:O	1:E:421:LEU:HA	1.88	0.73
1:G:139:VAL:CG2	1:H:163:GLY:N	2.41	0.73
1:I:373:ALA:CB	1:I:386:LEU:HB2	2.19	0.73
1:K:184:VAL:O	1:K:187:LEU:HB3	1.89	0.73
1:L:492:SER:O	1:L:507:PHE:HA	1.88	0.73
1:B:184:VAL:O	1:B:187:LEU:HB3	1.89	0.72
1:E:417:LYS:O	1:F:536:GLU:N	2.19	0.72
1:F:184:VAL:O	1:F:187:LEU:HB3	1.89	0.72
1:G:104:VAL:CG2	1:H:158:ARG:CD	2.66	0.72
1:N:108:ARG:CD	1:O:220:GLU:OE1	2.37	0.72
1:D:184:VAL:O	1:D:187:LEU:HB3	1.88	0.72
1:F:492:SER:O	1:F:507:PHE:HA	1.89	0.72
1:G:258:VAL:HG23	1:G:296:ALA:HB2	1.70	0.72
1:G:335:ILE:O	1:G:421:LEU:HA	1.88	0.72
1:H:108:ARG:NH2	1:I:226:ARG:HD2	2.04	0.72
1:H:184:VAL:O	1:H:187:LEU:HB3	1.90	0.72
1:M:335:ILE:O	1:M:421:LEU:HA	1.88	0.72
1:C:258:VAL:HG23	1:C:296:ALA:HB2	1.70	0.72
1:C:292:LEU:HG	1:C:307:ALA:HB2	1.72	0.72
1:E:184:VAL:O	1:E:187:LEU:HB3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:258:VAL:CG2	1:E:296:ALA:HB2	2.19	0.72
1:G:184:VAL:O	1:G:187:LEU:HB3	1.89	0.72
1:H:115:LEU:HD21	1:H:159:VAL:HG21	1.72	0.72
1:K:258:VAL:CG2	1:K:296:ALA:HB2	2.19	0.72
1:M:461:ILE:HG12	1:N:445:GLN:HB2	1.70	0.72
1:N:292:LEU:HG	1:N:307:ALA:HB2	1.70	0.72
1:A:258:VAL:HG23	1:A:296:ALA:HB2	1.68	0.72
1:E:492:SER:O	1:E:507:PHE:HA	1.88	0.72
1:H:141:LEU:HD22	1:I:158:ARG:C	2.10	0.72
1:J:581:TYR:CE2	1:K:524:VAL:HG11	2.24	0.72
1:N:335:ILE:O	1:N:421:LEU:HA	1.88	0.72
1:C:492:SER:O	1:C:507:PHE:HA	1.88	0.72
1:D:394:ASN:CB	1:D:412:LEU:HD22	2.20	0.72
1:J:184:VAL:O	1:J:187:LEU:HB3	1.89	0.72
1:L:258:VAL:CG2	1:L:296:ALA:HB2	2.19	0.72
1:D:402:GLN:HB3	1:D:405:TRP:CZ2	2.25	0.72
1:D:418:SER:HA	1:E:534:THR:O	1.89	0.72
1:E:301:ASN:HB2	1:F:431:ASN:ND2	2.03	0.72
1:A:184:VAL:O	1:A:187:LEU:HB3	1.89	0.72
1:C:609:PRO:HD2	1:C:609:PRO:O	1.90	0.72
1:D:442:VAL:HG21	1:D:507:PHE:HZ	1.55	0.72
1:F:442:VAL:HG21	1:F:507:PHE:HZ	1.55	0.72
1:E:258:VAL:HG23	1:E:296:ALA:HB2	1.70	0.72
1:G:258:VAL:CG2	1:G:296:ALA:HB2	2.19	0.72
1:I:115:LEU:HD22	1:I:118:LEU:CD1	2.19	0.72
1:I:207:VAL:HG11	1:J:186:ASN:ND2	2.04	0.72
1:K:292:LEU:HG	1:K:307:ALA:HB2	1.70	0.72
1:K:402:GLN:HB3	1:K:405:TRP:CZ2	2.25	0.72
1:O:115:LEU:HD21	1:O:159:VAL:HG21	1.71	0.72
1:G:177:ALA:O	1:G:181:VAL:HG23	1.89	0.72
1:K:136:PRO:HD2	1:L:110:VAL:HG13	1.72	0.72
1:K:258:VAL:HG23	1:K:296:ALA:HB2	1.70	0.72
1:A:209:ASP:HB2	1:B:183:LEU:HD21	1.71	0.72
1:B:596:GLN:HE21	1:C:338:ILE:HD11	1.55	0.72
1:H:104:VAL:HG21	1:I:158:ARG:HD3	1.71	0.72
1:N:258:VAL:HG23	1:N:296:ALA:HB2	1.70	0.72
1:B:258:VAL:HG23	1:B:296:ALA:HB2	1.70	0.71
1:C:115:LEU:HD21	1:C:159:VAL:HG21	1.70	0.71
1:D:139:VAL:HG21	1:E:162:ALA:C	2.10	0.71
1:F:177:ALA:O	1:F:181:VAL:HG23	1.90	0.71
1:H:328:GLN:HE21	1:I:517:LEU:N	1.88	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:596:GLN:HE21	1:M:338:ILE:HD11	1.55	0.71
1:M:596:GLN:HE21	1:N:338:ILE:HD11	1.53	0.71
1:C:184:VAL:O	1:C:187:LEU:HB3	1.88	0.71
1:C:402:GLN:HB3	1:C:405:TRP:CZ2	2.25	0.71
1:E:496:GLN:HA	1:F:501:ASP:OD2	1.89	0.71
1:J:258:VAL:HG23	1:J:296:ALA:HB2	1.71	0.71
1:D:492:SER:O	1:D:507:PHE:HA	1.89	0.71
1:E:177:ALA:O	1:E:181:VAL:HG23	1.90	0.71
1:H:141:LEU:HB2	1:I:158:ARG:HD2	1.73	0.71
1:L:258:VAL:HG23	1:L:296:ALA:HB2	1.71	0.71
1:M:292:LEU:HG	1:M:307:ALA:HB2	1.72	0.71
1:E:592:PHE:CZ	1:F:336:VAL:HB	2.25	0.71
1:G:133:HIS:NE2	1:H:114:GLU:CB	2.49	0.71
1:G:141:LEU:HD22	1:H:159:VAL:HA	1.70	0.71
1:H:135:ASP:OD2	1:I:159:VAL:O	2.09	0.71
1:H:328:GLN:NE2	1:I:517:LEU:H	1.88	0.71
1:H:440:GLN:HB2	1:I:507:PHE:O	1.90	0.71
1:G:108:ARG:CG	1:H:220:GLU:OE1	2.39	0.71
1:G:442:VAL:HG21	1:G:507:PHE:HZ	1.54	0.71
1:J:609:PRO:O	1:J:609:PRO:HD2	1.89	0.71
1:M:258:VAL:HG23	1:M:296:ALA:HB2	1.71	0.71
1:N:609:PRO:HD2	1:N:609:PRO:O	1.91	0.71
1:O:258:VAL:HG23	1:O:296:ALA:HB2	1.70	0.71
1:O:609:PRO:O	1:O:609:PRO:HD2	1.91	0.71
1:D:115:LEU:HD11	1:D:159:VAL:HG21	1.73	0.71
1:G:139:VAL:CG1	1:H:163:GLY:HA2	2.20	0.71
1:G:172:LEU:HB2	1:G:213:ASN:HD22	1.53	0.71
1:H:135:ASP:OD1	1:I:159:VAL:O	2.07	0.71
1:J:328:GLN:HE21	1:K:517:LEU:H	1.39	0.71
1:J:552:TYR:HA	1:J:555:ARG:HG2	1.72	0.71
1:K:328:GLN:NE2	1:L:517:LEU:H	1.89	0.71
1:H:442:VAL:HG21	1:H:507:PHE:HZ	1.56	0.71
1:L:328:GLN:HE21	1:M:517:LEU:H	1.38	0.71
1:M:258:VAL:CG2	1:M:296:ALA:HB2	2.19	0.71
1:A:402:GLN:HB3	1:A:405:TRP:CZ2	2.25	0.71
1:A:581:TYR:CE2	1:B:524:VAL:HG11	2.25	0.71
1:B:292:LEU:HG	1:B:307:ALA:HB2	1.72	0.71
1:D:104:VAL:CG2	1:E:158:ARG:HD2	2.21	0.71
1:D:133:HIS:NE2	1:E:114:GLU:O	2.24	0.71
1:D:461:ILE:HG12	1:E:445:GLN:CB	2.20	0.71
1:G:102:THR:HG23	1:H:158:ARG:HH21	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:102:THR:HG23	1:H:158:ARG:NH2	2.06	0.71
1:J:258:VAL:CG2	1:J:296:ALA:HB2	2.20	0.71
1:N:390:ALA:O	1:O:359:GLN:NE2	2.24	0.71
1:F:394:ASN:HD21	1:G:361:THR:CG2	2.03	0.71
1:H:141:LEU:CG	1:I:158:ARG:HG3	2.21	0.71
1:K:552:TYR:HA	1:K:555:ARG:HG2	1.72	0.71
1:I:137:SER:HB2	1:J:202:LEU:HD22	1.73	0.71
1:L:402:GLN:HB3	1:L:405:TRP:CZ2	2.26	0.71
1:L:138:ASN:ND2	1:M:198:THR:O	2.21	0.70
1:L:609:PRO:O	1:L:609:PRO:HD2	1.89	0.70
1:O:347:GLY:CA	1:O:556:SER:HA	2.21	0.70
1:A:108:ARG:CD	1:B:220:GLU:OE1	2.37	0.70
1:A:197:ASN:O	1:O:113:ARG:HG3	1.91	0.70
1:E:614:LEU:HD13	1:F:336:VAL:HG11	1.73	0.70
1:H:347:GLY:CA	1:H:556:SER:HA	2.21	0.70
1:H:552:TYR:HA	1:H:555:ARG:HG2	1.72	0.70
1:J:596:GLN:HE21	1:K:338:ILE:HD11	1.55	0.70
1:K:442:VAL:HG21	1:K:507:PHE:HZ	1.56	0.70
1:N:402:GLN:HB3	1:N:405:TRP:CZ2	2.26	0.70
1:D:108:ARG:CD	1:E:220:GLU:OE1	2.37	0.70
1:E:596:GLN:HE21	1:F:338:ILE:HD11	1.55	0.70
1:F:102:THR:HG23	1:G:158:ARG:NH2	2.06	0.70
1:H:301:ASN:HB2	1:I:431:ASN:ND2	2.06	0.70
1:I:395:GLY:N	1:J:359:GLN:O	2.22	0.70
1:I:397:ALA:N	1:J:357:GLY:O	2.24	0.70
1:K:347:GLY:CA	1:K:556:SER:HA	2.21	0.70
1:F:347:GLY:CA	1:F:556:SER:HA	2.21	0.70
1:I:328:GLN:NE2	1:J:517:LEU:O	2.22	0.70
1:I:329:VAL:HG22	1:I:574:ILE:HG12	1.72	0.70
1:I:347:GLY:CA	1:I:556:SER:HA	2.21	0.70
1:M:402:GLN:HB3	1:M:405:TRP:CZ2	2.26	0.70
1:M:609:PRO:HD2	1:M:609:PRO:O	1.89	0.70
1:N:347:GLY:CA	1:N:556:SER:HA	2.21	0.70
1:A:111:SER:HB2	1:B:198:THR:HA	1.73	0.70
1:C:329:VAL:HG22	1:C:574:ILE:HG12	1.73	0.70
1:G:115:LEU:HD11	1:G:159:VAL:HG21	1.74	0.70
1:H:207:VAL:HG12	1:I:183:LEU:HD23	1.74	0.70
1:J:402:GLN:HB3	1:J:405:TRP:CZ2	2.26	0.70
1:L:292:LEU:HG	1:L:307:ALA:HB2	1.71	0.70
1:A:440:GLN:HB2	1:B:507:PHE:O	1.90	0.70
1:D:377:TYR:OH	1:E:375:LYS:CG	2.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:461:ILE:CG1	1:E:445:GLN:HB2	2.19	0.70
1:F:172:LEU:HB2	1:F:213:ASN:HD22	1.55	0.70
1:H:141:LEU:CD2	1:I:159:VAL:CG2	2.69	0.70
1:J:292:LEU:HG	1:J:307:ALA:HB2	1.72	0.70
1:O:402:GLN:HB3	1:O:405:TRP:CZ2	2.26	0.70
1:B:329:VAL:HG22	1:B:574:ILE:HG12	1.74	0.70
1:D:329:VAL:HG22	1:D:574:ILE:HG12	1.73	0.70
1:H:167:VAL:HG23	1:I:230:MET:SD	2.32	0.70
1:N:104:VAL:CG2	1:O:158:ARG:HD2	2.22	0.70
1:O:442:VAL:HG21	1:O:507:PHE:HZ	1.55	0.70
1:A:347:GLY:CA	1:A:556:SER:HA	2.21	0.70
1:D:141:LEU:CD2	1:E:159:VAL:HG22	2.17	0.70
1:E:500:THR:CG2	1:E:506:THR:HG23	2.21	0.70
1:G:347:GLY:CA	1:G:556:SER:HA	2.21	0.70
1:H:169:ILE:HG21	1:I:234:LEU:HD23	1.74	0.70
1:I:412:LEU:CD1	1:J:360:PHE:HE1	2.05	0.70
1:K:115:LEU:HD11	1:K:159:VAL:HG21	1.73	0.70
1:M:599:ALA:HB1	1:M:611:ARG:HD3	1.74	0.70
1:N:115:LEU:HD11	1:N:159:VAL:HG21	1.73	0.70
1:A:158:ARG:HD2	1:O:104:VAL:HG23	1.72	0.70
1:B:261:LEU:HD12	1:B:303:LEU:HD21	1.74	0.70
1:G:172:LEU:HB2	1:G:213:ASN:ND2	2.06	0.70
1:J:115:LEU:HD11	1:J:159:VAL:HG21	1.74	0.70
1:L:552:TYR:HA	1:L:555:ARG:HG2	1.72	0.70
1:N:442:VAL:HG21	1:N:507:PHE:HZ	1.56	0.70
1:A:599:ALA:HB1	1:A:611:ARG:HD3	1.73	0.69
1:B:552:TYR:HA	1:B:555:ARG:HG2	1.73	0.69
1:C:552:TYR:HA	1:C:555:ARG:HG2	1.73	0.69
1:E:177:ALA:HB1	1:E:208:ALA:CB	2.19	0.69
1:E:402:GLN:HB3	1:E:405:TRP:CZ2	2.27	0.69
1:I:599:ALA:HB1	1:I:611:ARG:HD3	1.74	0.69
1:M:347:GLY:CA	1:M:556:SER:HA	2.21	0.69
1:N:581:TYR:CE2	1:O:524:VAL:HG11	2.26	0.69
1:O:552:TYR:HA	1:O:555:ARG:HG2	1.73	0.69
1:D:347:GLY:CA	1:D:556:SER:HA	2.21	0.69
1:E:172:LEU:HB2	1:E:213:ASN:HD22	1.55	0.69
1:E:596:GLN:CB	1:E:613:VAL:HG23	2.22	0.69
1:I:329:VAL:CG2	1:I:476:ILE:HD11	2.22	0.69
1:N:552:TYR:HA	1:N:555:ARG:HG2	1.73	0.69
1:A:115:LEU:HD22	1:A:118:LEU:CD1	2.22	0.69
1:F:329:VAL:HG22	1:F:574:ILE:HG12	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:108:ARG:HG3	1:I:220:GLU:CD	2.10	0.69
1:H:135:ASP:CB	1:I:110:VAL:HG21	2.22	0.69
1:H:168:ASP:HA	1:I:233:GLN:NE2	2.07	0.69
1:I:184:VAL:O	1:I:187:LEU:HB3	1.92	0.69
1:J:347:GLY:CA	1:J:556:SER:HA	2.21	0.69
1:M:261:LEU:HD12	1:M:303:LEU:HD21	1.75	0.69
1:B:402:GLN:HB3	1:B:405:TRP:CZ2	2.27	0.69
1:D:552:TYR:HA	1:D:555:ARG:HG2	1.73	0.69
1:G:104:VAL:HG11	1:H:162:ALA:CA	2.21	0.69
1:G:177:ALA:HB1	1:G:208:ALA:CB	2.22	0.69
1:H:202:LEU:HD12	1:I:189:LYS:CD	2.22	0.69
1:M:461:ILE:HD11	1:N:445:GLN:O	1.92	0.69
1:A:328:GLN:HE21	1:B:517:LEU:N	1.90	0.69
1:B:115:LEU:HD22	1:B:118:LEU:CD1	2.22	0.69
1:C:347:GLY:CA	1:C:556:SER:HA	2.21	0.69
1:E:347:GLY:CA	1:E:556:SER:HA	2.21	0.69
1:H:177:ALA:O	1:H:181:VAL:HG23	1.92	0.69
1:N:328:GLN:HE21	1:O:517:LEU:H	1.41	0.69
1:N:599:ALA:HB1	1:N:611:ARG:HD3	1.74	0.69
1:B:581:TYR:CE2	1:C:524:VAL:HG11	2.27	0.69
1:G:394:ASN:HA	1:H:359:GLN:O	1.93	0.69
1:G:412:LEU:HD12	1:H:540:LYS:O	1.92	0.69
1:M:552:TYR:HA	1:M:555:ARG:HG2	1.73	0.69
1:B:472:LEU:HG	1:B:474:PRO:HD3	1.75	0.69
1:D:177:ALA:O	1:D:181:VAL:HG23	1.93	0.69
1:H:329:VAL:HG22	1:H:574:ILE:HG12	1.74	0.69
1:J:115:LEU:HD22	1:J:118:LEU:CD1	2.22	0.69
1:N:177:ALA:O	1:N:181:VAL:HG23	1.92	0.69
1:O:261:LEU:HD12	1:O:303:LEU:HD21	1.75	0.69
1:O:472:LEU:HG	1:O:474:PRO:HD3	1.75	0.69
1:A:329:VAL:HG22	1:A:574:ILE:HG12	1.74	0.69
1:A:500:THR:CG2	1:A:506:THR:HG23	2.22	0.69
1:B:115:LEU:HD21	1:B:159:VAL:HG21	1.73	0.69
1:E:394:ASN:HD21	1:F:361:THR:HB	1.57	0.69
1:H:177:ALA:HB1	1:H:208:ALA:CB	2.22	0.69
1:H:394:ASN:OD1	1:I:360:PHE:HA	1.93	0.69
1:I:221:PRO:CB	1:I:224:ARG:HH21	2.03	0.69
1:I:350:TRP:CZ2	1:I:553:LEU:HB3	2.27	0.69
1:K:177:ALA:O	1:K:181:VAL:HG23	1.93	0.69
1:K:329:VAL:HG22	1:K:574:ILE:HG12	1.74	0.69
1:L:329:VAL:HG22	1:L:574:ILE:HG12	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:472:LEU:HG	1:L:474:PRO:HD3	1.75	0.69
1:L:599:ALA:HB1	1:L:611:ARG:HD3	1.74	0.69
1:M:329:VAL:HG22	1:M:574:ILE:HG12	1.73	0.69
1:G:329:VAL:HG22	1:G:574:ILE:HG12	1.74	0.69
1:D:461:ILE:HD11	1:E:445:GLN:O	1.93	0.69
1:F:104:VAL:HG21	1:G:158:ARG:HD2	1.75	0.69
1:I:394:ASN:HD21	1:J:361:THR:CB	2.06	0.69
1:I:394:ASN:CB	1:I:412:LEU:HD22	2.23	0.69
1:L:347:GLY:CA	1:L:556:SER:HA	2.21	0.69
1:O:599:ALA:HB1	1:O:611:ARG:HD3	1.75	0.69
1:A:261:LEU:HD12	1:A:303:LEU:HD21	1.74	0.68
1:A:552:TYR:HA	1:A:555:ARG:HG2	1.74	0.68
1:A:611:ARG:NH2	1:B:417:LYS:HD2	2.08	0.68
1:B:328:GLN:NE2	1:C:517:LEU:H	1.90	0.68
1:D:177:ALA:HB1	1:D:208:ALA:CB	2.22	0.68
1:D:599:ALA:HB1	1:D:611:ARG:HD3	1.75	0.68
1:E:333:ALA:O	1:E:423:THR:HA	1.94	0.68
1:G:552:TYR:HA	1:G:555:ARG:HG2	1.73	0.68
1:H:172:LEU:HB2	1:H:213:ASN:HD22	1.58	0.68
1:K:609:PRO:HD2	1:K:609:PRO:O	1.91	0.68
1:M:115:LEU:HD22	1:M:118:LEU:CD1	2.23	0.68
1:N:472:LEU:HG	1:N:474:PRO:HD3	1.75	0.68
1:A:163:GLY:N	1:O:139:VAL:HG21	2.08	0.68
1:H:109:ASN:HB3	1:H:163:GLY:O	1.92	0.68
1:H:201:LEU:HB3	1:I:189:LYS:HG2	1.76	0.68
1:I:394:ASN:HA	1:J:359:GLN:O	1.94	0.68
1:I:500:THR:CG2	1:I:506:THR:HG23	2.22	0.68
1:J:329:VAL:HG22	1:J:574:ILE:HG12	1.74	0.68
1:L:115:LEU:HD21	1:L:159:VAL:HG21	1.74	0.68
1:N:104:VAL:HG23	1:O:158:ARG:HD2	1.75	0.68
1:H:207:VAL:CG1	1:I:183:LEU:HD23	2.23	0.68
1:K:261:LEU:HD12	1:K:303:LEU:HD21	1.75	0.68
1:B:347:GLY:CA	1:B:556:SER:HA	2.21	0.68
1:C:461:ILE:HD11	1:D:445:GLN:O	1.92	0.68
1:G:111:SER:HB3	1:H:198:THR:HG23	1.76	0.68
1:G:141:LEU:HD21	1:H:159:VAL:HG22	1.73	0.68
1:L:115:LEU:HD22	1:L:118:LEU:CD1	2.23	0.68
1:O:329:VAL:HG22	1:O:574:ILE:HG12	1.74	0.68
1:A:472:LEU:HG	1:A:474:PRO:HD3	1.74	0.68
1:E:552:TYR:HA	1:E:555:ARG:HG2	1.75	0.68
1:L:177:ALA:O	1:L:181:VAL:HG23	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:177:ALA:O	1:O:181:VAL:HG23	1.93	0.68
1:B:138:ASN:ND2	1:C:198:THR:O	2.25	0.68
1:C:177:ALA:O	1:C:181:VAL:HG23	1.94	0.68
1:D:472:LEU:HG	1:D:474:PRO:HD3	1.74	0.68
1:E:350:TRP:CZ2	1:E:553:LEU:HB3	2.28	0.68
1:F:172:LEU:HB2	1:F:213:ASN:ND2	2.08	0.68
1:F:390:ALA:O	1:G:359:GLN:NE2	2.27	0.68
1:H:207:VAL:HG21	1:I:183:LEU:O	1.94	0.68
1:K:350:TRP:CZ2	1:K:553:LEU:HB3	2.29	0.68
1:L:350:TRP:CZ2	1:L:553:LEU:HB3	2.29	0.68
1:A:110:VAL:HG13	1:O:136:PRO:HD2	1.74	0.68
1:A:503:LEU:CD2	1:O:445:GLN:HE21	2.05	0.68
1:C:599:ALA:HB1	1:C:611:ARG:HD3	1.74	0.68
1:J:261:LEU:HD12	1:J:303:LEU:HD21	1.74	0.68
1:K:111:SER:HB2	1:L:198:THR:HA	1.74	0.68
1:M:442:VAL:HG21	1:M:507:PHE:HZ	1.58	0.68
1:N:329:VAL:HG22	1:N:574:ILE:HG12	1.74	0.68
1:N:350:TRP:CZ2	1:N:553:LEU:HB3	2.29	0.68
1:O:115:LEU:HD22	1:O:118:LEU:CD1	2.24	0.68
1:J:472:LEU:HG	1:J:474:PRO:HD3	1.75	0.68
1:M:596:GLN:CB	1:M:613:VAL:HG23	2.24	0.68
1:C:115:LEU:HD22	1:C:118:LEU:CD1	2.23	0.68
1:D:609:PRO:O	1:D:609:PRO:HD2	1.92	0.68
1:E:461:ILE:HD11	1:F:445:GLN:O	1.93	0.68
1:E:599:ALA:HB1	1:E:611:ARG:HD3	1.76	0.68
1:G:500:THR:CG2	1:G:506:THR:HG23	2.23	0.68
1:H:599:ALA:HB1	1:H:611:ARG:HD3	1.75	0.68
1:I:292:LEU:CD1	1:I:311:VAL:CG1	2.71	0.68
1:L:261:LEU:HD12	1:L:303:LEU:HD21	1.74	0.68
1:L:500:THR:CG2	1:L:506:THR:HG23	2.23	0.68
1:M:472:LEU:HG	1:M:474:PRO:HD3	1.75	0.68
1:N:172:LEU:HB2	1:N:213:ASN:HD22	1.59	0.68
1:O:350:TRP:CZ2	1:O:553:LEU:HB3	2.29	0.68
1:B:109:ASN:HB3	1:B:163:GLY:O	1.93	0.68
1:B:177:ALA:O	1:B:181:VAL:HG23	1.94	0.68
1:C:109:ASN:HB3	1:C:163:GLY:O	1.94	0.68
1:E:472:LEU:HG	1:E:474:PRO:HD3	1.74	0.68
1:F:412:LEU:HD12	1:G:540:LYS:O	1.94	0.68
1:F:418:SER:HA	1:G:534:THR:O	1.94	0.68
1:L:177:ALA:HB1	1:L:208:ALA:CB	2.24	0.68
1:C:394:ASN:HD21	1:D:361:THR:CG2	2.06	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:442:VAL:HG21	1:C:507:PHE:HZ	1.58	0.67
1:D:261:LEU:HD12	1:D:303:LEU:HD21	1.75	0.67
1:G:333:ALA:O	1:G:423:THR:HA	1.94	0.67
1:H:350:TRP:CZ2	1:H:553:LEU:HB3	2.29	0.67
1:H:472:LEU:HG	1:H:474:PRO:HD3	1.75	0.67
1:I:115:LEU:HD11	1:I:159:VAL:CG2	2.24	0.67
1:J:109:ASN:HB3	1:J:163:GLY:O	1.94	0.67
1:A:596:GLN:CB	1:A:613:VAL:HG23	2.24	0.67
1:F:472:LEU:HG	1:F:474:PRO:HD3	1.75	0.67
1:F:552:TYR:HA	1:F:555:ARG:HG2	1.74	0.67
1:H:102:THR:HG23	1:I:158:ARG:NH2	2.10	0.67
1:J:599:ALA:HB1	1:J:611:ARG:HD3	1.74	0.67
1:L:596:GLN:CB	1:L:613:VAL:HG23	2.24	0.67
1:A:177:ALA:HB1	1:A:208:ALA:CB	2.23	0.67
1:A:495:LYS:CB	1:A:498:THR:OG1	2.42	0.67
1:B:599:ALA:HB1	1:B:611:ARG:HD3	1.74	0.67
1:E:593:ARG:NH1	1:E:597:LEU:HD11	2.08	0.67
1:F:596:GLN:CB	1:F:613:VAL:HG23	2.25	0.67
1:G:350:TRP:CZ2	1:G:553:LEU:HB3	2.29	0.67
1:G:472:LEU:HG	1:G:474:PRO:HD3	1.74	0.67
1:H:201:LEU:O	1:I:189:LYS:HB2	1.94	0.67
1:J:350:TRP:CZ2	1:J:553:LEU:HB3	2.29	0.67
1:K:599:ALA:HB1	1:K:611:ARG:HD3	1.75	0.67
1:N:596:GLN:CB	1:N:613:VAL:HG23	2.25	0.67
1:E:172:LEU:HB2	1:E:213:ASN:ND2	2.08	0.67
1:H:216:VAL:HG11	1:I:183:LEU:HB3	1.77	0.67
1:H:500:THR:CG2	1:H:506:THR:HG23	2.22	0.67
1:I:333:ALA:O	1:I:423:THR:HG23	1.94	0.67
1:J:596:GLN:CB	1:J:613:VAL:HG23	2.24	0.67
1:K:139:VAL:HG21	1:L:163:GLY:N	2.10	0.67
1:K:581:TYR:CE2	1:L:524:VAL:HG11	2.29	0.67
1:M:177:ALA:O	1:M:181:VAL:HG23	1.93	0.67
1:M:350:TRP:CZ2	1:M:553:LEU:HB3	2.29	0.67
1:C:261:LEU:HD12	1:C:303:LEU:HD21	1.74	0.67
1:G:111:SER:HB3	1:H:198:THR:HA	1.76	0.67
1:G:596:GLN:CB	1:G:613:VAL:HG23	2.25	0.67
1:I:472:LEU:HG	1:I:474:PRO:HD3	1.75	0.67
1:J:177:ALA:O	1:J:181:VAL:HG23	1.94	0.67
1:M:333:ALA:O	1:M:423:THR:HA	1.94	0.67
1:M:394:ASN:HD21	1:N:361:THR:CG2	2.08	0.67
1:O:373:ALA:CB	1:O:386:LEU:HB2	2.21	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:LEU:HD21	1:A:159:VAL:HG21	1.75	0.67
1:C:495:LYS:CB	1:C:498:THR:OG1	2.42	0.67
1:D:350:TRP:CZ2	1:D:553:LEU:HB3	2.29	0.67
1:E:495:LYS:CB	1:E:498:THR:OG1	2.41	0.67
1:F:333:ALA:O	1:F:423:THR:HA	1.95	0.67
1:I:331:VAL:HG11	1:I:472:LEU:CD2	2.24	0.67
1:K:109:ASN:HB3	1:K:163:GLY:O	1.95	0.67
1:L:333:ALA:O	1:L:423:THR:HA	1.94	0.67
1:L:581:TYR:CE2	1:M:524:VAL:HG11	2.28	0.67
1:N:115:LEU:HD22	1:N:118:LEU:CD1	2.25	0.67
1:N:394:ASN:HD21	1:O:361:THR:CG2	2.08	0.67
1:A:162:ALA:O	1:O:139:VAL:CB	2.43	0.67
1:A:358:THR:HA	1:O:395:GLY:O	1.95	0.67
1:A:373:ALA:CB	1:A:386:LEU:HB2	2.22	0.67
1:B:495:LYS:CB	1:B:498:THR:OG1	2.42	0.67
1:C:472:LEU:HG	1:C:474:PRO:HD3	1.75	0.67
1:D:172:LEU:HB2	1:D:213:ASN:HD22	1.59	0.67
1:D:333:ALA:O	1:D:423:THR:HA	1.95	0.67
1:D:500:THR:CG2	1:D:506:THR:HG23	2.24	0.67
1:E:329:VAL:HG22	1:E:574:ILE:HG12	1.76	0.67
1:H:261:LEU:HD12	1:H:303:LEU:HD21	1.75	0.67
1:J:442:VAL:HG21	1:J:507:PHE:HZ	1.59	0.67
1:M:177:ALA:HB1	1:M:208:ALA:CB	2.23	0.67
1:O:333:ALA:O	1:O:423:THR:HA	1.94	0.67
1:C:350:TRP:CZ2	1:C:553:LEU:HB3	2.29	0.67
1:C:418:SER:HA	1:D:534:THR:O	1.94	0.67
1:G:216:VAL:HG21	1:H:183:LEU:HD22	1.77	0.67
1:G:328:GLN:HE21	1:H:517:LEU:H	1.41	0.67
1:H:172:LEU:HB2	1:H:213:ASN:ND2	2.10	0.67
1:M:328:GLN:HE21	1:N:517:LEU:H	1.43	0.67
1:N:261:LEU:HD12	1:N:303:LEU:HD21	1.75	0.67
1:N:333:ALA:O	1:N:423:THR:HA	1.95	0.67
1:B:333:ALA:O	1:B:423:THR:HG23	1.95	0.67
1:B:350:TRP:CZ2	1:B:553:LEU:HB3	2.29	0.67
1:C:333:ALA:O	1:C:423:THR:HG23	1.95	0.67
1:C:596:GLN:CB	1:C:613:VAL:HG23	2.25	0.67
1:D:394:ASN:ND2	1:E:361:THR:CG2	2.58	0.67
1:H:333:ALA:O	1:H:423:THR:HA	1.95	0.67
1:H:609:PRO:HD2	1:H:609:PRO:O	1.93	0.67
1:J:611:ARG:NH2	1:K:417:LYS:HD2	2.09	0.67
1:K:472:LEU:HG	1:K:474:PRO:HD3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:109:ASN:HB3	1:L:163:GLY:O	1.95	0.67
1:N:373:ALA:CB	1:N:386:LEU:HB2	2.21	0.67
1:O:172:LEU:HB2	1:O:213:ASN:HD22	1.60	0.67
1:O:596:GLN:CB	1:O:613:VAL:HG23	2.25	0.67
1:A:139:VAL:CG1	1:B:162:ALA:O	2.41	0.67
1:D:109:ASN:HB3	1:D:163:GLY:O	1.95	0.67
1:D:596:GLN:CB	1:D:613:VAL:HG23	2.25	0.67
1:E:442:VAL:HG21	1:E:507:PHE:HZ	1.60	0.67
1:F:177:ALA:HB1	1:F:208:ALA:CB	2.22	0.67
1:J:331:VAL:HG11	1:J:472:LEU:CD2	2.25	0.67
1:K:596:GLN:CB	1:K:613:VAL:HG23	2.25	0.67
1:A:350:TRP:CZ2	1:A:553:LEU:HB3	2.29	0.66
1:C:333:ALA:O	1:C:423:THR:HA	1.95	0.66
1:H:107:VAL:CB	1:H:112:VAL:HG12	2.25	0.66
1:I:394:ASN:OD1	1:J:360:PHE:C	2.33	0.66
1:I:442:VAL:HG21	1:I:507:PHE:HZ	1.60	0.66
1:I:592:PHE:CE2	1:J:336:VAL:HG21	2.30	0.66
1:K:333:ALA:O	1:K:423:THR:HA	1.95	0.66
1:L:442:VAL:HG21	1:L:507:PHE:HZ	1.58	0.66
1:A:177:ALA:O	1:A:181:VAL:HG23	1.95	0.66
1:A:333:ALA:O	1:A:423:THR:HA	1.94	0.66
1:D:495:LYS:CB	1:D:498:THR:OG1	2.42	0.66
1:F:500:THR:CG2	1:F:506:THR:HG23	2.24	0.66
1:K:500:THR:CG2	1:K:506:THR:HG23	2.24	0.66
1:N:177:ALA:HB1	1:N:208:ALA:CB	2.22	0.66
1:C:611:ARG:NH2	1:D:417:LYS:HD2	2.10	0.66
1:D:333:ALA:O	1:D:423:THR:HG23	1.95	0.66
1:F:333:ALA:O	1:F:423:THR:HG23	1.94	0.66
1:K:331:VAL:HG11	1:K:472:LEU:CD2	2.25	0.66
1:M:109:ASN:HB3	1:M:163:GLY:O	1.94	0.66
1:A:326:ARG:CZ	1:O:299:THR:HB	2.26	0.66
1:F:599:ALA:HB1	1:F:611:ARG:HD3	1.76	0.66
1:H:102:THR:HG23	1:I:158:ARG:HH21	1.61	0.66
1:H:596:GLN:CB	1:H:613:VAL:HG23	2.25	0.66
1:L:394:ASN:HD21	1:M:361:THR:CG2	2.09	0.66
1:M:373:ALA:CB	1:M:386:LEU:HB2	2.21	0.66
1:B:373:ALA:CB	1:B:386:LEU:HB2	2.22	0.66
1:B:442:VAL:HG21	1:B:507:PHE:HZ	1.59	0.66
1:C:500:THR:CG2	1:C:506:THR:HG23	2.24	0.66
1:D:331:VAL:HG11	1:D:472:LEU:CD2	2.26	0.66
1:F:261:LEU:HD12	1:F:303:LEU:HD21	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:333:ALA:O	1:J:423:THR:HA	1.95	0.66
1:L:523:THR:HG1	1:L:571:ARG:HD3	1.60	0.66
1:O:495:LYS:CB	1:O:498:THR:OG1	2.42	0.66
1:B:394:ASN:HD21	1:C:361:THR:CG2	2.09	0.66
1:B:596:GLN:CB	1:B:613:VAL:HG23	2.25	0.66
1:F:350:TRP:CZ2	1:F:553:LEU:HB3	2.29	0.66
1:H:333:ALA:O	1:H:423:THR:HG23	1.95	0.66
1:J:333:ALA:O	1:J:423:THR:HG23	1.95	0.66
1:M:331:VAL:HG11	1:M:472:LEU:CD2	2.26	0.66
1:N:331:VAL:HG11	1:N:472:LEU:CD2	2.26	0.66
1:N:523:THR:HG1	1:N:571:ARG:HD3	1.61	0.66
1:A:333:ALA:O	1:A:423:THR:HG23	1.96	0.66
1:D:115:LEU:HD22	1:D:118:LEU:CD1	2.25	0.66
1:E:250:LYS:HD2	1:F:477:ASN:OD1	1.96	0.66
1:K:333:ALA:O	1:K:423:THR:HG23	1.95	0.66
1:B:611:ARG:NH2	1:C:417:LYS:HD2	2.10	0.66
1:C:328:GLN:NE2	1:D:517:LEU:H	1.94	0.66
1:E:596:GLN:HB3	1:E:613:VAL:HG23	1.78	0.66
1:F:609:PRO:HD2	1:F:609:PRO:O	1.96	0.66
1:H:331:VAL:HG11	1:H:472:LEU:CD2	2.26	0.66
1:I:333:ALA:O	1:I:423:THR:HA	1.95	0.66
1:I:394:ASN:HB3	1:I:412:LEU:HD22	1.77	0.66
1:J:417:LYS:O	1:K:536:GLU:N	2.21	0.66
1:K:113:ARG:HG3	1:L:197:ASN:O	1.96	0.66
1:A:109:ASN:HB3	1:A:163:GLY:O	1.94	0.66
1:A:202:LEU:HD22	1:O:136:PRO:HB2	1.78	0.66
1:B:331:VAL:HG11	1:B:472:LEU:CD2	2.26	0.66
1:B:333:ALA:O	1:B:423:THR:HA	1.94	0.66
1:G:599:ALA:HB1	1:G:611:ARG:HD3	1.76	0.66
1:I:461:ILE:HD11	1:J:445:GLN:O	1.96	0.66
1:J:500:THR:CG2	1:J:506:THR:HG23	2.25	0.66
1:N:333:ALA:O	1:N:423:THR:HG23	1.95	0.66
1:B:524:VAL:O	1:B:569:PHE:HA	1.96	0.66
1:C:177:ALA:HB1	1:C:208:ALA:CB	2.24	0.66
1:C:373:ALA:CB	1:C:386:LEU:HB2	2.21	0.66
1:D:221:PRO:CB	1:D:224:ARG:HH21	2.07	0.66
1:F:524:VAL:O	1:F:569:PHE:HA	1.96	0.66
1:G:261:LEU:HD12	1:G:303:LEU:HD21	1.77	0.66
1:G:331:VAL:HG11	1:G:472:LEU:CD2	2.26	0.66
1:G:333:ALA:O	1:G:423:THR:HG23	1.95	0.66
1:H:166:GLU:OE1	1:I:226:ARG:NH1	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:172:LEU:HB2	1:K:213:ASN:HD22	1.59	0.66
1:L:373:ALA:CB	1:L:386:LEU:HB2	2.21	0.66
1:O:333:ALA:O	1:O:423:THR:HG23	1.96	0.66
1:A:331:VAL:HG11	1:A:472:LEU:CD2	2.27	0.65
1:A:445:GLN:CB	1:O:461:ILE:HG12	2.21	0.65
1:C:172:LEU:HB2	1:C:213:ASN:HD22	1.61	0.65
1:F:331:VAL:HG11	1:F:472:LEU:CD2	2.26	0.65
1:H:115:LEU:HD22	1:H:118:LEU:CD1	2.26	0.65
1:M:333:ALA:O	1:M:423:THR:HG23	1.95	0.65
1:O:500:THR:CG2	1:O:506:THR:HG23	2.23	0.65
1:B:177:ALA:HB1	1:B:208:ALA:CB	2.24	0.65
1:D:104:VAL:HG21	1:E:158:ARG:HD2	1.79	0.65
1:F:394:ASN:CB	1:F:412:LEU:HD22	2.26	0.65
1:F:472:LEU:HD13	1:F:486:ILE:HG13	1.78	0.65
1:G:440:GLN:HB2	1:H:507:PHE:O	1.97	0.65
1:I:524:VAL:O	1:I:569:PHE:HA	1.96	0.65
1:J:524:VAL:O	1:J:569:PHE:HA	1.97	0.65
1:L:331:VAL:HG11	1:L:472:LEU:CD2	2.26	0.65
1:M:611:ARG:NH2	1:N:417:LYS:HD2	2.11	0.65
1:N:109:ASN:HB3	1:N:163:GLY:O	1.95	0.65
1:B:500:THR:CG2	1:B:506:THR:HG23	2.25	0.65
1:C:596:GLN:HE21	1:D:338:ILE:HD11	1.60	0.65
1:K:115:LEU:HD22	1:K:118:LEU:CD1	2.25	0.65
1:N:495:LYS:CB	1:N:498:THR:OG1	2.42	0.65
1:O:331:VAL:HG11	1:O:472:LEU:CD2	2.26	0.65
1:O:524:VAL:O	1:O:569:PHE:HA	1.97	0.65
1:B:172:LEU:HB2	1:B:213:ASN:HD22	1.62	0.65
1:D:472:LEU:HD13	1:D:486:ILE:HG13	1.78	0.65
1:G:461:ILE:CG1	1:H:445:GLN:HB2	2.26	0.65
1:I:109:ASN:HB3	1:I:163:GLY:O	1.95	0.65
1:L:524:VAL:O	1:L:569:PHE:HA	1.97	0.65
1:N:172:LEU:HB2	1:N:213:ASN:ND2	2.11	0.65
1:A:431:ASN:CG	1:O:301:ASN:HB2	2.17	0.65
1:C:331:VAL:HG11	1:C:472:LEU:CD2	2.26	0.65
1:D:172:LEU:HB2	1:D:213:ASN:ND2	2.11	0.65
1:D:524:VAL:O	1:D:569:PHE:HA	1.96	0.65
1:H:207:VAL:HG12	1:H:208:ALA:H	1.60	0.65
1:H:461:ILE:CG1	1:I:445:GLN:HB2	2.26	0.65
1:I:177:ALA:O	1:I:181:VAL:HG23	1.97	0.65
1:J:172:LEU:HB2	1:J:213:ASN:HD22	1.61	0.65
1:L:333:ALA:O	1:L:423:THR:HG23	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:524:VAL:O	1:N:569:PHE:HA	1.96	0.65
1:A:417:LYS:HD2	1:O:611:ARG:NH2	2.11	0.65
1:G:472:LEU:HD13	1:G:486:ILE:HG13	1.78	0.65
1:H:115:LEU:HD11	1:H:159:VAL:CG2	2.27	0.65
1:H:524:VAL:O	1:H:569:PHE:HA	1.97	0.65
1:M:172:LEU:HB2	1:M:213:ASN:HD22	1.61	0.65
1:O:575:LEU:CD1	1:O:581:TYR:HD1	2.10	0.65
1:A:610:ASP:O	1:C:534:THR:HG21	1.96	0.65
1:F:495:LYS:CB	1:F:498:THR:OG1	2.42	0.65
1:H:495:LYS:CB	1:H:498:THR:OG1	2.42	0.65
1:I:107:VAL:HB	1:I:112:VAL:CG1	2.25	0.65
1:J:394:ASN:HD21	1:K:361:THR:CG2	2.10	0.65
1:K:472:LEU:HD13	1:K:486:ILE:HG13	1.78	0.65
1:M:299:THR:HB	1:N:326:ARG:CZ	2.27	0.65
1:M:418:SER:HA	1:N:534:THR:O	1.97	0.65
1:M:500:THR:CG2	1:M:506:THR:HG23	2.24	0.65
1:O:109:ASN:HB3	1:O:163:GLY:O	1.95	0.65
1:C:524:VAL:O	1:C:569:PHE:HA	1.96	0.65
1:D:442:VAL:HG21	1:D:507:PHE:CZ	2.32	0.65
1:E:326:ARG:HH21	1:E:432:LYS:HE2	1.61	0.65
1:G:524:VAL:O	1:G:569:PHE:HA	1.96	0.65
1:J:418:SER:HA	1:K:534:THR:O	1.97	0.65
1:J:461:ILE:HD11	1:K:445:GLN:O	1.96	0.65
1:L:328:GLN:NE2	1:M:517:LEU:H	1.93	0.65
1:E:328:GLN:NE2	1:F:517:LEU:C	2.47	0.65
1:G:202:LEU:HD12	1:H:189:LYS:HE2	1.79	0.65
1:I:151:ARG:O	1:I:155:VAL:HG23	1.97	0.65
1:I:617:TYR:HE1	1:J:523:THR:O	1.80	0.65
1:M:575:LEU:CD1	1:M:581:TYR:HD1	2.10	0.65
1:C:472:LEU:HD13	1:C:486:ILE:HG13	1.78	0.65
1:E:575:LEU:CD1	1:E:581:TYR:HD1	2.08	0.65
1:G:394:ASN:CB	1:G:412:LEU:HD22	2.27	0.65
1:H:135:ASP:CG	1:I:159:VAL:O	2.34	0.65
1:J:172:LEU:HB2	1:J:213:ASN:ND2	2.12	0.65
1:J:373:ALA:CB	1:J:386:LEU:HB2	2.20	0.65
1:J:472:LEU:HD13	1:J:486:ILE:HG13	1.78	0.65
1:K:172:LEU:HB2	1:K:213:ASN:ND2	2.11	0.65
1:K:394:ASN:CB	1:K:412:LEU:HD22	2.27	0.65
1:K:524:VAL:O	1:K:569:PHE:HA	1.96	0.65
1:M:495:LYS:CB	1:M:498:THR:OG1	2.42	0.65
1:A:169:ILE:HG21	1:B:234:LEU:CD2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:115:LEU:HD22	1:E:118:LEU:CD1	2.27	0.64
1:G:395:GLY:O	1:H:358:THR:HA	1.97	0.64
1:K:221:PRO:CB	1:K:224:ARG:HH21	2.08	0.64
1:M:524:VAL:O	1:M:569:PHE:HA	1.97	0.64
1:O:394:ASN:CB	1:O:412:LEU:HD22	2.27	0.64
1:F:328:GLN:HE21	1:G:517:LEU:H	1.44	0.64
1:H:472:LEU:HD13	1:H:486:ILE:HG13	1.78	0.64
1:I:136:PRO:C	1:J:199:SER:CB	2.61	0.64
1:I:249:LEU:HD13	1:I:257:MET:HG3	1.78	0.64
1:I:596:GLN:CB	1:I:613:VAL:HG23	2.27	0.64
1:J:177:ALA:HB1	1:J:208:ALA:CB	2.24	0.64
1:J:495:LYS:CB	1:J:498:THR:OG1	2.42	0.64
1:L:472:LEU:HD13	1:L:486:ILE:HG13	1.79	0.64
1:N:394:ASN:CB	1:N:412:LEU:HD22	2.28	0.64
1:O:394:ASN:HB3	1:O:412:LEU:HD22	1.79	0.64
1:D:138:ASN:ND2	1:E:198:THR:O	2.27	0.64
1:G:495:LYS:CB	1:G:498:THR:OG1	2.42	0.64
1:K:495:LYS:CB	1:K:498:THR:OG1	2.42	0.64
1:L:495:LYS:CB	1:L:498:THR:OG1	2.42	0.64
1:M:473:THR:HG23	1:M:473:THR:O	1.97	0.64
1:N:418:SER:HA	1:O:534:THR:O	1.97	0.64
1:E:261:LEU:HD12	1:E:303:LEU:HD21	1.77	0.64
1:E:333:ALA:O	1:E:423:THR:HG23	1.96	0.64
1:E:524:VAL:O	1:E:569:PHE:HA	1.97	0.64
1:G:442:VAL:HG21	1:G:507:PHE:CZ	2.32	0.64
1:J:111:SER:HB3	1:K:198:THR:HA	1.80	0.64
1:K:104:VAL:HG11	1:L:162:ALA:CB	2.27	0.64
1:K:394:ASN:HD21	1:L:361:THR:CG2	2.10	0.64
1:A:216:VAL:HG21	1:B:183:LEU:HD22	1.80	0.64
1:A:442:VAL:HG21	1:A:507:PHE:HZ	1.62	0.64
1:C:326:ARG:HH21	1:C:432:LYS:HE2	1.62	0.64
1:D:373:ALA:CB	1:D:386:LEU:HB2	2.21	0.64
1:I:136:PRO:CB	1:J:199:SER:OG	2.46	0.64
1:I:495:LYS:CB	1:I:498:THR:OG1	2.42	0.64
1:J:326:ARG:HH21	1:J:432:LYS:HE2	1.62	0.64
1:K:373:ALA:CB	1:K:386:LEU:HB2	2.21	0.64
1:K:473:THR:O	1:K:473:THR:HG23	1.98	0.64
1:N:326:ARG:HH21	1:N:432:LYS:HE2	1.63	0.64
1:A:172:LEU:HB2	1:A:213:ASN:ND2	2.12	0.64
1:A:172:LEU:HB2	1:A:213:ASN:HD22	1.61	0.64
1:A:412:LEU:HD12	1:B:540:LYS:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:524:VAL:O	1:A:569:PHE:HA	1.97	0.64
1:G:445:GLN:HE21	1:H:503:LEU:CD2	2.11	0.64
1:J:394:ASN:CB	1:J:412:LEU:HD22	2.28	0.64
1:J:394:ASN:HB3	1:J:412:LEU:HD22	1.80	0.64
1:L:418:SER:HA	1:M:534:THR:O	1.98	0.64
1:L:473:THR:HG23	1:L:473:THR:O	1.98	0.64
1:O:442:VAL:HG21	1:O:507:PHE:CZ	2.32	0.64
1:C:299:THR:HB	1:D:326:ARG:CZ	2.28	0.64
1:G:107:VAL:CB	1:G:112:VAL:HG12	2.28	0.64
1:I:169:ILE:CD1	1:I:216:VAL:HG22	2.28	0.64
1:I:552:TYR:HA	1:I:555:ARG:HG2	1.79	0.64
1:J:473:THR:HG23	1:J:473:THR:O	1.98	0.64
1:K:169:ILE:CD1	1:K:216:VAL:HG22	2.28	0.64
1:L:172:LEU:HB2	1:L:213:ASN:ND2	2.12	0.64
1:L:575:LEU:CD1	1:L:581:TYR:HD1	2.10	0.64
1:N:473:THR:HG23	1:N:473:THR:O	1.98	0.64
1:O:472:LEU:HD13	1:O:486:ILE:HG13	1.78	0.64
1:A:158:ARG:HD2	1:O:104:VAL:HG21	1.79	0.64
1:A:575:LEU:CD1	1:A:581:TYR:HD1	2.10	0.64
1:F:301:ASN:HB2	1:G:431:ASN:ND2	2.13	0.64
1:I:473:THR:HG23	1:I:473:THR:O	1.97	0.64
1:K:177:ALA:HB1	1:K:208:ALA:CB	2.22	0.64
1:K:442:VAL:HG21	1:K:507:PHE:CZ	2.33	0.64
1:L:394:ASN:CB	1:L:412:LEU:HD22	2.28	0.64
1:O:172:LEU:HB2	1:O:213:ASN:ND2	2.11	0.64
1:B:326:ARG:HH21	1:B:432:LYS:HE2	1.62	0.64
1:B:575:LEU:CD1	1:B:581:TYR:HD1	2.11	0.64
1:D:326:ARG:HH21	1:D:432:LYS:HE2	1.63	0.64
1:E:473:THR:HG23	1:E:473:THR:O	1.97	0.64
1:G:500:THR:HG21	1:G:506:THR:CG2	2.27	0.64
1:I:117:PRO:O	1:I:121:GLN:CB	2.44	0.64
1:I:472:LEU:HD13	1:I:486:ILE:HG13	1.79	0.64
1:L:326:ARG:HH21	1:L:432:LYS:HE2	1.63	0.64
1:M:472:LEU:HD13	1:M:486:ILE:HG13	1.79	0.64
1:N:500:THR:CG2	1:N:506:THR:HG23	2.24	0.64
1:E:592:PHE:CE2	1:F:336:VAL:HB	2.33	0.64
1:F:221:PRO:CB	1:F:224:ARG:HH21	2.09	0.64
1:G:609:PRO:O	1:G:609:PRO:HD2	1.97	0.64
1:H:205:LYS:HE2	1:I:186:ASN:O	1.98	0.64
1:O:473:THR:HG23	1:O:473:THR:O	1.98	0.64
1:C:575:LEU:CD1	1:C:581:TYR:HD1	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:141:LEU:CD2	1:G:159:VAL:HG22	2.26	0.63
1:F:326:ARG:HH21	1:F:432:LYS:HE2	1.63	0.63
1:G:109:ASN:HB3	1:G:163:GLY:O	1.98	0.63
1:H:116:ALA:HA	1:H:134:TYR:OH	1.99	0.63
1:H:133:HIS:CE1	1:I:114:GLU:HB3	2.33	0.63
1:I:138:ASN:OD1	1:J:197:ASN:O	2.16	0.63
1:M:300:THR:CG2	1:N:324:ILE:HD11	2.28	0.63
1:N:472:LEU:HD13	1:N:486:ILE:HG13	1.79	0.63
1:O:177:ALA:HB1	1:O:208:ALA:CB	2.22	0.63
1:A:198:THR:HG23	1:O:111:SER:HB3	1.78	0.63
1:B:169:ILE:CD1	1:B:216:VAL:HG22	2.29	0.63
1:C:394:ASN:CB	1:C:412:LEU:HD22	2.28	0.63
1:D:328:GLN:NE2	1:E:517:LEU:H	1.95	0.63
1:E:253:LYS:HG2	1:F:475:GLN:OE1	1.98	0.63
1:F:133:HIS:NE2	1:G:114:GLU:HB3	2.13	0.63
1:G:116:ALA:HA	1:G:134:TYR:OH	1.98	0.63
1:G:211:ARG:NH1	1:H:176:SER:HB2	2.13	0.63
1:G:473:THR:HG23	1:G:473:THR:O	1.98	0.63
1:I:107:VAL:CB	1:I:112:VAL:HG12	2.28	0.63
1:L:172:LEU:HB2	1:L:213:ASN:HD22	1.61	0.63
1:M:221:PRO:CB	1:M:224:ARG:HH21	2.11	0.63
1:A:104:VAL:HG23	1:B:158:ARG:HD2	1.79	0.63
1:A:169:ILE:CD1	1:A:216:VAL:HG22	2.28	0.63
1:A:472:LEU:HD13	1:A:486:ILE:HG13	1.78	0.63
1:B:172:LEU:HB2	1:B:213:ASN:ND2	2.13	0.63
1:B:418:SER:HA	1:C:534:THR:O	1.98	0.63
1:C:300:THR:CG2	1:D:324:ILE:HD11	2.28	0.63
1:E:136:PRO:O	1:F:198:THR:O	2.16	0.63
1:F:115:LEU:HD11	1:F:159:VAL:HG21	1.80	0.63
1:H:301:ASN:ND2	1:I:431:ASN:OD1	2.32	0.63
1:J:292:LEU:CD1	1:J:311:VAL:CG1	2.76	0.63
1:K:523:THR:HG1	1:K:571:ARG:HD3	1.62	0.63
1:M:172:LEU:HB2	1:M:213:ASN:ND2	2.12	0.63
1:A:328:GLN:HE22	1:B:517:LEU:C	1.97	0.63
1:D:575:LEU:CD1	1:D:581:TYR:HD1	2.10	0.63
1:E:472:LEU:HD13	1:E:486:ILE:HG13	1.80	0.63
1:I:172:LEU:HD21	1:I:215:VAL:HG23	1.80	0.63
1:I:402:GLN:HB3	1:I:405:TRP:CZ2	2.34	0.63
1:I:549:VAL:O	1:I:552:TYR:CE2	2.51	0.63
1:L:611:ARG:NH2	1:M:417:LYS:HD2	2.14	0.63
1:N:442:VAL:HG21	1:N:507:PHE:CZ	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:596:GLN:HE21	1:B:338:ILE:HD11	1.64	0.63
1:B:394:ASN:CB	1:B:412:LEU:HD22	2.29	0.63
1:C:172:LEU:HB2	1:C:213:ASN:ND2	2.12	0.63
1:D:136:PRO:HD2	1:E:110:VAL:HG13	1.80	0.63
1:F:300:THR:CG2	1:G:324:ILE:HD11	2.28	0.63
1:G:461:ILE:HG21	1:H:503:LEU:HB3	1.80	0.63
1:L:111:SER:HB2	1:M:198:THR:HA	1.81	0.63
1:O:169:ILE:CD1	1:O:216:VAL:HG22	2.28	0.63
1:A:418:SER:HA	1:B:534:THR:O	1.98	0.63
1:A:473:THR:HG23	1:A:473:THR:O	1.98	0.63
1:A:596:GLN:HG2	1:B:338:ILE:HD11	1.80	0.63
1:J:575:LEU:CD1	1:J:581:TYR:HD1	2.10	0.63
1:K:326:ARG:HH21	1:K:432:LYS:HE2	1.63	0.63
1:A:115:LEU:HD11	1:A:159:VAL:CG2	2.29	0.63
1:A:326:ARG:HH21	1:A:432:LYS:HE2	1.63	0.63
1:B:473:THR:HG23	1:B:473:THR:O	1.98	0.63
1:F:107:VAL:CB	1:F:112:VAL:HG12	2.28	0.63
1:F:116:ALA:HA	1:F:134:TYR:OH	1.98	0.63
1:F:442:VAL:HG21	1:F:507:PHE:CZ	2.33	0.63
1:H:207:VAL:HG12	1:I:183:LEU:CD2	2.29	0.63
1:I:394:ASN:ND2	1:J:361:THR:CG2	2.61	0.63
1:J:111:SER:CB	1:K:198:THR:HA	2.29	0.63
1:J:328:GLN:NE2	1:K:517:LEU:H	1.96	0.63
1:J:428:THR:HG21	1:J:474:PRO:HD2	1.81	0.63
1:J:549:VAL:O	1:J:552:TYR:CE2	2.52	0.63
1:K:394:ASN:HB3	1:K:412:LEU:HD22	1.80	0.63
1:N:461:ILE:HD11	1:O:445:GLN:O	1.99	0.63
1:B:472:LEU:HD13	1:B:486:ILE:HG13	1.79	0.63
1:I:331:VAL:HG11	1:I:472:LEU:HD22	1.80	0.63
1:J:300:THR:CG2	1:K:324:ILE:HD11	2.29	0.63
1:K:549:VAL:O	1:K:552:TYR:CE2	2.51	0.63
1:L:169:ILE:CD1	1:L:216:VAL:HG22	2.29	0.63
1:M:596:GLN:HB3	1:M:613:VAL:HG23	1.81	0.63
1:N:575:LEU:CD1	1:N:581:TYR:HD1	2.10	0.63
1:E:549:VAL:O	1:E:552:TYR:CE2	2.50	0.63
1:F:117:PRO:O	1:F:121:GLN:CB	2.47	0.63
1:F:346:LEU:HA	1:F:410:THR:O	1.98	0.63
1:G:117:PRO:O	1:G:121:GLN:CB	2.46	0.63
1:H:473:THR:O	1:H:473:THR:HG23	1.98	0.63
1:I:428:THR:HG21	1:I:474:PRO:HD2	1.81	0.63
1:K:292:LEU:CD1	1:K:311:VAL:CG1	2.77	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:418:SER:HA	1:L:534:THR:O	1.99	0.63
1:L:394:ASN:HB3	1:L:412:LEU:HD22	1.80	0.63
1:N:549:VAL:O	1:N:552:TYR:CE2	2.51	0.63
1:O:549:VAL:O	1:O:552:TYR:CE2	2.51	0.63
1:B:480:ASP:O	1:B:520:SER:HB3	1.99	0.62
1:C:442:VAL:HG21	1:C:507:PHE:CZ	2.34	0.62
1:C:473:THR:O	1:C:473:THR:HG23	1.98	0.62
1:D:398:ALA:HA	1:E:356:GLY:HA3	1.80	0.62
1:E:109:ASN:HB3	1:E:163:GLY:O	1.98	0.62
1:E:136:PRO:CB	1:F:199:SER:HB2	2.28	0.62
1:E:331:VAL:HG11	1:E:472:LEU:CD2	2.29	0.62
1:G:221:PRO:CB	1:G:224:ARG:HH21	2.07	0.62
1:G:575:LEU:CD1	1:G:581:TYR:HD1	2.10	0.62
1:I:394:ASN:ND2	1:J:361:THR:HB	2.14	0.62
1:K:480:ASP:O	1:K:520:SER:HB3	1.99	0.62
1:L:549:VAL:O	1:L:552:TYR:CE2	2.51	0.62
1:N:346:LEU:HA	1:N:410:THR:O	1.99	0.62
1:A:549:VAL:O	1:A:552:TYR:CE2	2.52	0.62
1:C:169:ILE:CD1	1:C:216:VAL:HG22	2.29	0.62
1:D:480:ASP:O	1:D:520:SER:HB3	1.99	0.62
1:E:373:ALA:CB	1:E:386:LEU:HB2	2.21	0.62
1:F:523:THR:HG1	1:F:571:ARG:HD3	1.61	0.62
1:H:155:VAL:O	1:H:159:VAL:HG23	1.98	0.62
1:I:394:ASN:OD1	1:J:361:THR:N	2.32	0.62
1:J:346:LEU:HA	1:J:410:THR:O	1.99	0.62
1:K:301:ASN:HB2	1:L:431:ASN:CG	2.19	0.62
1:L:346:LEU:HA	1:L:410:THR:O	2.00	0.62
1:N:169:ILE:CD1	1:N:216:VAL:HG22	2.29	0.62
1:N:299:THR:HB	1:O:326:ARG:CZ	2.30	0.62
1:A:328:GLN:NE2	1:B:517:LEU:N	2.46	0.62
1:A:359:GLN:O	1:O:394:ASN:HA	1.99	0.62
1:C:108:ARG:HD3	1:D:220:GLU:OE1	1.98	0.62
1:C:394:ASN:HB3	1:C:412:LEU:HD22	1.81	0.62
1:D:500:THR:HG21	1:D:506:THR:CG2	2.28	0.62
1:E:428:THR:HG21	1:E:474:PRO:HD2	1.80	0.62
1:G:133:HIS:CE1	1:H:114:GLU:HB3	2.32	0.62
1:G:346:LEU:HA	1:G:410:THR:O	1.99	0.62
1:G:596:GLN:HB3	1:G:613:VAL:HG23	1.82	0.62
1:H:575:LEU:CD1	1:H:581:TYR:HD1	2.11	0.62
1:I:137:SER:HB2	1:J:202:LEU:CD2	2.30	0.62
1:K:299:THR:HB	1:L:326:ARG:CZ	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:596:GLN:HB3	1:K:613:VAL:HG23	1.82	0.62
1:L:115:LEU:HD11	1:L:159:VAL:CG2	2.28	0.62
1:N:394:ASN:HB3	1:N:412:LEU:HD22	1.81	0.62
1:N:575:LEU:CD1	1:N:581:TYR:CD1	2.82	0.62
1:A:346:LEU:HA	1:A:410:THR:O	1.99	0.62
1:A:394:ASN:CB	1:A:412:LEU:HD22	2.30	0.62
1:A:592:PHE:CZ	1:B:336:VAL:HB	2.34	0.62
1:C:139:VAL:HG21	1:D:162:ALA:C	2.19	0.62
1:F:139:VAL:CB	1:G:162:ALA:O	2.47	0.62
1:F:151:ARG:O	1:F:155:VAL:HG23	1.99	0.62
1:F:221:PRO:HB3	1:F:224:ARG:CZ	2.30	0.62
1:G:151:ARG:O	1:G:155:VAL:HG23	1.99	0.62
1:H:117:PRO:O	1:H:121:GLN:CB	2.47	0.62
1:H:168:ASP:CG	1:H:224:ARG:HG2	2.20	0.62
1:I:187:LEU:HG	1:I:190:ASP:HB2	1.81	0.62
1:M:575:LEU:CD1	1:M:581:TYR:CD1	2.82	0.62
1:O:326:ARG:HH21	1:O:432:LYS:HE2	1.64	0.62
1:G:253:LYS:HG2	1:H:475:GLN:OE1	1.99	0.62
1:H:394:ASN:HD21	1:I:361:THR:CG2	2.12	0.62
1:J:299:THR:HB	1:K:326:ARG:CZ	2.29	0.62
1:J:480:ASP:O	1:J:520:SER:HB3	1.99	0.62
1:M:480:ASP:O	1:M:520:SER:HB3	1.99	0.62
1:O:480:ASP:O	1:O:520:SER:HB3	2.00	0.62
1:B:394:ASN:HB3	1:B:412:LEU:HD22	1.82	0.62
1:B:575:LEU:CD1	1:B:581:TYR:CD1	2.82	0.62
1:E:486:ILE:O	1:E:513:LYS:HA	2.00	0.62
1:F:611:ARG:NH2	1:G:417:LYS:HD2	2.15	0.62
1:H:106:PRO:HA	1:H:139:VAL:HA	1.81	0.62
1:K:575:LEU:CD1	1:K:581:TYR:HD1	2.10	0.62
1:L:442:VAL:HG21	1:L:507:PHE:CZ	2.35	0.62
1:M:326:ARG:HH21	1:M:432:LYS:HE2	1.63	0.62
1:M:394:ASN:CB	1:M:412:LEU:HD22	2.29	0.62
1:M:549:VAL:O	1:M:552:TYR:CE2	2.51	0.62
1:A:243:ASN:ND2	1:O:211:ARG:HA	2.14	0.62
1:C:480:ASP:O	1:C:520:SER:HB3	1.99	0.62
1:D:473:THR:HG23	1:D:473:THR:O	1.98	0.62
1:D:549:VAL:O	1:D:552:TYR:CE2	2.52	0.62
1:F:480:ASP:O	1:F:520:SER:HB3	2.00	0.62
1:H:373:ALA:CB	1:H:386:LEU:HB2	2.21	0.62
1:H:442:VAL:HG21	1:H:507:PHE:CZ	2.33	0.62
1:I:412:LEU:CD1	1:J:360:PHE:CE1	2.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:473:THR:HG22	1:I:485:THR:HB	1.82	0.62
1:I:486:ILE:O	1:I:513:LYS:HA	2.00	0.62
1:L:117:PRO:O	1:L:121:GLN:CB	2.48	0.62
1:L:480:ASP:O	1:L:520:SER:HB3	1.99	0.62
1:M:116:ALA:HA	1:M:134:TYR:OH	2.00	0.62
1:M:117:PRO:O	1:M:121:GLN:CB	2.48	0.62
1:A:292:LEU:CD1	1:A:311:VAL:CG1	2.76	0.62
1:A:428:THR:HG21	1:A:474:PRO:HD2	1.81	0.62
1:C:292:LEU:CD1	1:C:311:VAL:CG1	2.77	0.62
1:D:117:PRO:O	1:D:121:GLN:CB	2.48	0.62
1:E:117:PRO:O	1:E:121:GLN:CB	2.48	0.62
1:E:611:ARG:CZ	1:F:417:LYS:HD2	2.29	0.62
1:F:373:ALA:CB	1:F:386:LEU:HB2	2.20	0.62
1:K:116:ALA:HA	1:K:134:TYR:OH	1.99	0.62
1:N:116:ALA:HA	1:N:134:TYR:OH	1.99	0.62
1:N:221:PRO:CB	1:N:224:ARG:HH21	2.10	0.62
1:A:394:ASN:HB3	1:A:412:LEU:HD22	1.82	0.62
1:A:486:ILE:O	1:A:513:LYS:HA	2.00	0.62
1:A:596:GLN:HB3	1:A:613:VAL:HG23	1.80	0.62
1:B:292:LEU:CD1	1:B:311:VAL:CG1	2.76	0.62
1:D:292:LEU:CD1	1:D:311:VAL:CG1	2.77	0.62
1:F:136:PRO:HB2	1:G:202:LEU:HD22	1.82	0.62
1:F:473:THR:HG23	1:F:473:THR:O	1.98	0.62
1:H:107:VAL:HB	1:H:112:VAL:CG1	2.28	0.62
1:H:346:LEU:HA	1:H:410:THR:O	1.99	0.62
1:J:442:VAL:HG21	1:J:507:PHE:CZ	2.35	0.62
1:K:428:THR:HG21	1:K:474:PRO:HD2	1.82	0.62
1:L:116:ALA:HA	1:L:134:TYR:OH	2.00	0.62
1:M:442:VAL:HG21	1:M:507:PHE:CZ	2.35	0.62
1:N:328:GLN:NE2	1:O:517:LEU:H	1.96	0.62
1:N:480:ASP:O	1:N:520:SER:HB3	2.00	0.62
1:D:135:ASP:HB3	1:E:110:VAL:HG21	1.82	0.62
1:D:346:LEU:HA	1:D:410:THR:O	1.99	0.62
1:G:480:ASP:O	1:G:520:SER:HB3	2.00	0.62
1:G:486:ILE:O	1:G:513:LYS:HA	2.00	0.62
1:I:168:ASP:CG	1:I:224:ARG:HG2	2.20	0.62
1:J:117:PRO:O	1:J:121:GLN:CB	2.48	0.62
1:J:169:ILE:CD1	1:J:216:VAL:HG22	2.30	0.62
1:K:117:PRO:O	1:K:121:GLN:CB	2.48	0.62
1:A:207:VAL:HG21	1:B:186:ASN:HB2	1.81	0.61
1:B:442:VAL:HG21	1:B:507:PHE:CZ	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:417:LYS:O	1:D:536:GLU:N	2.23	0.61
1:C:549:VAL:O	1:C:552:TYR:CE2	2.52	0.61
1:H:201:LEU:HB3	1:I:189:LYS:CG	2.30	0.61
1:H:480:ASP:O	1:H:520:SER:HB3	1.99	0.61
1:J:331:VAL:HG11	1:J:472:LEU:HD22	1.82	0.61
1:M:169:ILE:CD1	1:M:216:VAL:HG22	2.30	0.61
1:M:394:ASN:HB3	1:M:412:LEU:HD22	1.81	0.61
1:N:301:ASN:HB2	1:O:431:ASN:CG	2.21	0.61
1:C:428:THR:HG21	1:C:474:PRO:HD2	1.82	0.61
1:E:292:LEU:CD1	1:E:311:VAL:CG1	2.76	0.61
1:F:107:VAL:HB	1:F:112:VAL:CG1	2.27	0.61
1:G:169:ILE:HD12	1:H:234:LEU:HD21	1.82	0.61
1:G:326:ARG:HH21	1:G:432:LYS:HE2	1.63	0.61
1:I:480:ASP:O	1:I:520:SER:HB3	1.99	0.61
1:I:500:THR:HG21	1:I:506:THR:CG2	2.28	0.61
1:L:139:VAL:HG21	1:M:162:ALA:C	2.21	0.61
1:A:480:ASP:O	1:A:520:SER:HB3	2.00	0.61
1:B:346:LEU:HA	1:B:410:THR:O	2.00	0.61
1:B:428:THR:HG21	1:B:474:PRO:HD2	1.82	0.61
1:B:486:ILE:O	1:B:513:LYS:HA	2.01	0.61
1:C:596:GLN:HB3	1:C:613:VAL:HG23	1.82	0.61
1:G:107:VAL:HB	1:G:112:VAL:CG1	2.27	0.61
1:G:373:ALA:CB	1:G:386:LEU:HB2	2.21	0.61
1:H:428:THR:HG21	1:H:474:PRO:HD2	1.82	0.61
1:L:428:THR:HG21	1:L:474:PRO:HD2	1.82	0.61
1:N:141:LEU:CD2	1:O:159:VAL:HG22	2.24	0.61
1:G:211:ARG:HA	1:H:243:ASN:HD22	1.65	0.61
1:H:244:THR:N	1:I:314:GLU:OE2	2.33	0.61
1:I:172:LEU:HB2	1:I:213:ASN:ND2	2.16	0.61
1:K:486:ILE:O	1:K:513:LYS:HA	2.01	0.61
1:L:221:PRO:CB	1:L:224:ARG:HH21	2.08	0.61
1:M:292:LEU:CD1	1:M:311:VAL:CG1	2.77	0.61
1:M:417:LYS:O	1:N:536:GLU:N	2.22	0.61
1:N:611:ARG:NH2	1:O:417:LYS:HD2	2.14	0.61
1:O:596:GLN:HB3	1:O:613:VAL:HG23	1.82	0.61
1:C:346:LEU:HA	1:C:410:THR:O	1.99	0.61
1:D:116:ALA:HA	1:D:134:TYR:OH	1.99	0.61
1:D:428:THR:HG21	1:D:474:PRO:HD2	1.82	0.61
1:H:133:HIS:HE1	1:I:114:GLU:HB3	1.65	0.61
1:J:116:ALA:HA	1:J:134:TYR:OH	2.00	0.61
1:K:346:LEU:HA	1:K:410:THR:O	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:486:ILE:O	1:M:513:LYS:HA	2.00	0.61
1:O:346:LEU:HA	1:O:410:THR:O	2.00	0.61
1:E:116:ALA:HA	1:E:134:TYR:OH	1.99	0.61
1:H:135:ASP:CB	1:I:110:VAL:CG2	2.78	0.61
1:H:169:ILE:CD1	1:H:216:VAL:HG22	2.30	0.61
1:I:116:ALA:HA	1:I:134:TYR:OH	2.00	0.61
1:I:189:LYS:HD3	1:I:193:SER:HB3	1.81	0.61
1:J:101:VAL:HG21	1:J:103:ARG:HH21	1.66	0.61
1:J:596:GLN:HB3	1:J:613:VAL:HG23	1.81	0.61
1:K:500:THR:HG21	1:K:506:THR:CG2	2.29	0.61
1:M:139:VAL:HG21	1:N:162:ALA:C	2.20	0.61
1:M:489:GLU:CA	1:M:510:ARG:O	2.45	0.61
1:O:116:ALA:HA	1:O:134:TYR:OH	1.99	0.61
1:O:500:THR:HG21	1:O:506:THR:CG2	2.28	0.61
1:O:523:THR:HG1	1:O:571:ARG:HD3	1.66	0.61
1:A:151:ARG:O	1:A:155:VAL:HG23	2.00	0.61
1:B:549:VAL:O	1:B:552:TYR:CE2	2.52	0.61
1:G:136:PRO:HD2	1:H:110:VAL:CG1	2.31	0.61
1:G:394:ASN:HB3	1:G:412:LEU:HD22	1.83	0.61
1:J:486:ILE:O	1:J:513:LYS:HA	2.00	0.61
1:L:486:ILE:O	1:L:513:LYS:HA	2.00	0.61
1:M:523:THR:HG1	1:M:571:ARG:HD3	1.66	0.61
1:D:151:ARG:O	1:D:155:VAL:HG23	2.00	0.61
1:D:169:ILE:CD1	1:D:216:VAL:HG22	2.30	0.61
1:D:299:THR:HB	1:E:326:ARG:CZ	2.30	0.61
1:F:109:ASN:HB3	1:F:163:GLY:O	1.99	0.61
1:F:394:ASN:HB3	1:F:412:LEU:HD22	1.83	0.61
1:G:169:ILE:CD1	1:G:216:VAL:HG22	2.30	0.61
1:K:135:ASP:CB	1:L:110:VAL:HG21	2.30	0.61
1:K:331:VAL:HG11	1:K:472:LEU:HD22	1.83	0.61
1:L:101:VAL:HG21	1:L:103:ARG:HH21	1.66	0.61
1:L:596:GLN:HB3	1:L:613:VAL:HG23	1.81	0.61
1:B:101:VAL:HG21	1:B:103:ARG:HH21	1.65	0.61
1:E:440:GLN:HB2	1:F:507:PHE:O	2.01	0.61
1:F:500:THR:HG21	1:F:506:THR:CG2	2.28	0.61
1:I:221:PRO:HB3	1:I:224:ARG:CZ	2.31	0.61
1:K:394:ASN:HA	1:L:359:GLN:O	2.00	0.61
1:N:135:ASP:HB3	1:O:110:VAL:HG21	1.82	0.61
1:O:428:THR:HG21	1:O:474:PRO:HD2	1.82	0.61
1:O:486:ILE:O	1:O:513:LYS:HA	2.00	0.61
1:B:151:ARG:O	1:B:155:VAL:HG23	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:461:ILE:HD11	1:C:445:GLN:O	2.01	0.61
1:C:116:ALA:HA	1:C:134:TYR:OH	2.00	0.61
1:C:151:ARG:O	1:C:155:VAL:HG23	2.00	0.61
1:C:523:THR:HG1	1:C:571:ARG:HD3	1.64	0.61
1:D:486:ILE:O	1:D:513:LYS:HA	2.00	0.61
1:E:151:ARG:O	1:E:155:VAL:HG23	2.00	0.61
1:E:575:LEU:CD1	1:E:581:TYR:CD1	2.80	0.61
1:F:115:LEU:HD22	1:F:118:LEU:CD1	2.30	0.61
1:I:395:GLY:O	1:J:359:GLN:N	2.34	0.61
1:L:331:VAL:HG11	1:L:472:LEU:HD22	1.83	0.61
1:M:346:LEU:HA	1:M:410:THR:O	2.00	0.61
1:M:428:THR:HG21	1:M:474:PRO:HD2	1.81	0.61
1:N:428:THR:HG21	1:N:474:PRO:HD2	1.82	0.61
1:O:151:ARG:O	1:O:155:VAL:HG23	2.00	0.61
1:A:101:VAL:HG21	1:A:103:ARG:HH21	1.66	0.60
1:B:300:THR:CG2	1:C:324:ILE:HD11	2.31	0.60
1:B:596:GLN:HB3	1:B:613:VAL:HG23	1.82	0.60
1:C:610:ASP:O	1:E:534:THR:HG21	2.01	0.60
1:E:107:VAL:CB	1:E:112:VAL:HG12	2.30	0.60
1:F:486:ILE:O	1:F:513:LYS:HA	2.01	0.60
1:F:549:VAL:O	1:F:552:TYR:CE2	2.52	0.60
1:F:575:LEU:CD1	1:F:581:TYR:HD1	2.12	0.60
1:H:205:LYS:CD	1:I:186:ASN:O	2.48	0.60
1:H:395:GLY:O	1:I:358:THR:HG23	2.01	0.60
1:I:115:LEU:HD21	1:I:159:VAL:HG21	1.82	0.60
1:I:172:LEU:HB2	1:I:213:ASN:HD22	1.65	0.60
1:K:139:VAL:CB	1:L:162:ALA:O	2.49	0.60
1:K:412:LEU:HD12	1:L:540:LYS:O	2.01	0.60
1:L:461:ILE:HD11	1:M:445:GLN:O	2.00	0.60
1:N:486:ILE:O	1:N:513:LYS:HA	2.00	0.60
1:A:116:ALA:HA	1:A:134:TYR:OH	2.00	0.60
1:A:198:THR:CA	1:O:111:SER:HB3	2.25	0.60
1:A:394:ASN:HD21	1:B:361:THR:CG2	2.13	0.60
1:A:575:LEU:CD1	1:A:581:TYR:CD1	2.82	0.60
1:E:331:VAL:O	1:E:425:SER:HA	2.01	0.60
1:G:115:LEU:HD22	1:G:118:LEU:CD1	2.30	0.60
1:G:428:THR:HG21	1:G:474:PRO:HD2	1.82	0.60
1:H:176:SER:OG	1:I:308:GLN:CG	2.48	0.60
1:H:201:LEU:CD1	1:I:189:LYS:HZ3	2.13	0.60
1:H:326:ARG:HH21	1:H:432:LYS:HE2	1.66	0.60
1:J:151:ARG:O	1:J:155:VAL:HG23	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:412:LEU:HD12	1:O:540:LYS:O	2.00	0.60
1:N:596:GLN:HB3	1:N:613:VAL:HG23	1.81	0.60
1:C:486:ILE:O	1:C:513:LYS:HA	2.01	0.60
1:E:346:LEU:HA	1:E:410:THR:O	2.00	0.60
1:F:301:ASN:HB2	1:G:431:ASN:CG	2.21	0.60
1:H:151:ARG:O	1:H:155:VAL:HG23	2.00	0.60
1:H:486:ILE:O	1:H:513:LYS:HA	2.01	0.60
1:I:326:ARG:HH21	1:I:432:LYS:HE2	1.64	0.60
1:K:395:GLY:O	1:L:358:THR:HA	2.01	0.60
1:K:611:ARG:NH2	1:L:417:LYS:HD2	2.15	0.60
1:M:151:ARG:O	1:M:155:VAL:HG23	2.00	0.60
1:M:221:PRO:HB3	1:M:224:ARG:CZ	2.30	0.60
1:M:331:VAL:HG11	1:M:472:LEU:HD22	1.83	0.60
1:M:500:THR:HG21	1:M:506:THR:CG2	2.29	0.60
1:O:221:PRO:CB	1:O:224:ARG:HH21	2.08	0.60
1:B:116:ALA:HA	1:B:134:TYR:OH	2.00	0.60
1:B:139:VAL:HG21	1:C:162:ALA:C	2.21	0.60
1:C:337:GLU:OE2	1:C:339:ALA:HB2	2.02	0.60
1:D:107:VAL:CB	1:D:112:VAL:HG12	2.31	0.60
1:G:328:GLN:NE2	1:H:517:LEU:H	2.00	0.60
1:H:201:LEU:O	1:I:189:LYS:HG3	2.00	0.60
1:I:442:VAL:HG21	1:I:507:PHE:CZ	2.36	0.60
1:G:611:ARG:NH2	1:H:417:LYS:HD2	2.15	0.60
1:K:151:ARG:O	1:K:155:VAL:HG23	2.00	0.60
1:K:328:GLN:HE21	1:L:517:LEU:N	2.00	0.60
1:N:151:ARG:O	1:N:155:VAL:HG23	2.00	0.60
1:N:337:GLU:OE2	1:N:339:ALA:HB2	2.02	0.60
1:A:500:THR:HG21	1:A:506:THR:CG2	2.30	0.60
1:G:337:GLU:OE2	1:G:339:ALA:HB2	2.02	0.60
1:H:337:GLU:OE2	1:H:339:ALA:HB2	2.02	0.60
1:H:445:GLN:HE21	1:I:503:LEU:CD2	2.15	0.60
1:I:337:GLU:OE2	1:I:339:ALA:HB2	2.02	0.60
1:M:101:VAL:HG21	1:M:103:ARG:HH21	1.66	0.60
1:M:107:VAL:CB	1:M:112:VAL:HG12	2.32	0.60
1:A:162:ALA:O	1:O:139:VAL:HG21	2.02	0.60
1:D:394:ASN:HD21	1:E:361:THR:HG21	1.64	0.60
1:F:169:ILE:CD1	1:F:216:VAL:HG22	2.32	0.60
1:G:168:ASP:CG	1:G:224:ARG:HG2	2.22	0.60
1:G:549:VAL:O	1:G:552:TYR:CE2	2.51	0.60
1:H:108:ARG:HH21	1:I:226:ARG:HD2	1.65	0.60
1:K:461:ILE:CG1	1:L:445:GLN:HB2	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:394:ASN:HA	1:O:359:GLN:O	2.02	0.60
1:O:107:VAL:CB	1:O:112:VAL:HG12	2.32	0.60
1:A:122:LEU:HD12	1:A:152:LEU:HD23	1.84	0.60
1:F:253:LYS:HG2	1:G:475:GLN:OE1	2.02	0.60
1:H:251:TYR:OH	1:I:477:ASN:ND2	2.35	0.60
1:H:331:VAL:HG11	1:H:472:LEU:HD22	1.84	0.60
1:H:549:VAL:O	1:H:552:TYR:CE2	2.52	0.60
1:I:180:MET:O	1:I:184:VAL:HG23	2.02	0.60
1:J:221:PRO:HB3	1:J:224:ARG:CZ	2.31	0.60
1:J:337:GLU:OE2	1:J:339:ALA:HB2	2.02	0.60
1:L:155:VAL:O	1:L:159:VAL:HG23	2.01	0.60
1:L:292:LEU:CD1	1:L:311:VAL:CG1	2.77	0.60
1:O:101:VAL:HG21	1:O:103:ARG:HH21	1.67	0.60
1:O:292:LEU:CD1	1:O:311:VAL:CG1	2.77	0.60
1:B:221:PRO:CB	1:B:224:ARG:HH21	2.11	0.60
1:B:395:GLY:O	1:C:358:THR:HA	2.02	0.60
1:D:437:ASN:HB3	1:E:511:THR:HB	1.84	0.60
1:E:221:PRO:HB3	1:E:224:ARG:CZ	2.32	0.60
1:F:596:GLN:HB3	1:F:613:VAL:HG23	1.82	0.60
1:H:160:ASP:OD1	1:I:222:LYS:HD3	2.02	0.60
1:K:101:VAL:HG21	1:K:103:ARG:HH21	1.67	0.60
1:L:489:GLU:CA	1:L:510:ARG:O	2.45	0.60
1:M:337:GLU:OE2	1:M:339:ALA:HB2	2.02	0.60
1:N:111:SER:HB2	1:O:198:THR:HA	1.81	0.60
1:O:337:GLU:OE2	1:O:339:ALA:HB2	2.02	0.60
1:A:361:THR:CG2	1:O:394:ASN:HD21	2.14	0.60
1:A:461:ILE:HG12	1:B:445:GLN:HB2	1.84	0.60
1:B:111:SER:HB2	1:C:198:THR:HA	1.83	0.60
1:B:500:THR:HG21	1:B:506:THR:CG2	2.29	0.60
1:E:329:VAL:HG23	1:E:476:ILE:HD11	1.83	0.60
1:E:480:ASP:O	1:E:520:SER:HB3	2.01	0.60
1:E:500:THR:HG21	1:E:506:THR:CG2	2.28	0.60
1:G:118:LEU:HD22	1:G:119:LEU:CD2	2.32	0.60
1:H:596:GLN:HB3	1:H:613:VAL:HG23	1.83	0.60
1:L:390:ALA:O	1:M:359:GLN:NE2	2.33	0.60
1:B:337:GLU:OE2	1:B:339:ALA:HB2	2.02	0.59
1:D:337:GLU:OE2	1:D:339:ALA:HB2	2.02	0.59
1:E:169:ILE:CD1	1:E:216:VAL:HG22	2.32	0.59
1:E:442:VAL:HG21	1:E:507:PHE:CZ	2.36	0.59
1:H:202:LEU:HD12	1:I:189:LYS:CG	2.32	0.59
1:H:207:VAL:HG12	1:H:208:ALA:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:523:THR:HG1	1:H:571:ARG:HD3	1.66	0.59
1:I:383:THR:HB	1:J:372:ILE:HB	1.83	0.59
1:L:151:ARG:O	1:L:155:VAL:HG23	2.01	0.59
1:C:500:THR:HG21	1:C:506:THR:CG2	2.29	0.59
1:D:111:SER:HB3	1:E:198:THR:CA	2.20	0.59
1:G:104:VAL:HG21	1:H:158:ARG:CD	2.32	0.59
1:G:331:VAL:HG11	1:G:472:LEU:HD22	1.84	0.59
1:H:135:ASP:CB	1:I:163:GLY:HA3	2.31	0.59
1:H:201:LEU:HB2	1:I:189:LYS:NZ	2.18	0.59
1:N:117:PRO:O	1:N:121:GLN:CB	2.48	0.59
1:F:428:THR:HG21	1:F:474:PRO:HD2	1.83	0.59
1:G:207:VAL:HG11	1:H:183:LEU:HA	1.84	0.59
1:H:135:ASP:HB3	1:I:110:VAL:CG2	2.31	0.59
1:K:461:ILE:HG12	1:L:445:GLN:CB	2.32	0.59
1:N:300:THR:CG2	1:O:324:ILE:HD11	2.32	0.59
1:O:115:LEU:HD11	1:O:159:VAL:CG2	2.32	0.59
1:A:523:THR:HG1	1:A:571:ARG:HD3	1.66	0.59
1:B:394:ASN:HD21	1:C:361:THR:HB	1.68	0.59
1:C:221:PRO:HB3	1:C:224:ARG:CZ	2.32	0.59
1:K:107:VAL:CB	1:K:112:VAL:HG12	2.32	0.59
1:N:294:ILE:HG12	1:N:305:ILE:HG23	1.85	0.59
1:A:198:THR:HA	1:O:111:SER:HB2	1.78	0.59
1:B:115:LEU:HD11	1:B:159:VAL:CG2	2.32	0.59
1:B:122:LEU:HD12	1:B:152:LEU:HD23	1.85	0.59
1:B:221:PRO:HB3	1:B:224:ARG:CZ	2.31	0.59
1:C:107:VAL:CB	1:C:112:VAL:HG12	2.32	0.59
1:E:107:VAL:HB	1:E:112:VAL:CG1	2.32	0.59
1:I:377:TYR:OH	1:J:375:LYS:CB	2.50	0.59
1:M:328:GLN:NE2	1:N:517:LEU:H	2.00	0.59
1:O:294:ILE:HG12	1:O:305:ILE:HG23	1.85	0.59
1:A:155:VAL:O	1:A:159:VAL:HG23	2.03	0.59
1:B:299:THR:HB	1:C:326:ARG:CZ	2.32	0.59
1:B:331:VAL:HG11	1:B:472:LEU:HD22	1.83	0.59
1:B:331:VAL:O	1:B:425:SER:HA	2.03	0.59
1:F:445:GLN:HE21	1:G:503:LEU:CD2	2.15	0.59
1:H:500:THR:HG21	1:H:506:THR:CG2	2.28	0.59
1:O:575:LEU:CD1	1:O:581:TYR:CD1	2.82	0.59
1:A:117:PRO:O	1:A:121:GLN:CB	2.47	0.59
1:B:394:ASN:O	1:B:412:LEU:HD22	2.03	0.59
1:C:101:VAL:HG21	1:C:103:ARG:HH21	1.67	0.59
1:C:331:VAL:HG11	1:C:472:LEU:HD22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:118:LEU:HD22	1:F:119:LEU:CD2	2.33	0.59
1:H:394:ASN:CB	1:H:412:LEU:HD22	2.33	0.59
1:I:346:LEU:HA	1:I:410:THR:O	2.01	0.59
1:L:395:GLY:O	1:M:358:THR:HA	2.03	0.59
1:E:221:PRO:CB	1:E:224:ARG:HH21	2.10	0.59
1:E:394:ASN:O	1:E:412:LEU:HD22	2.02	0.59
1:F:292:LEU:CD1	1:F:311:VAL:CG1	2.79	0.59
1:H:473:THR:HG22	1:H:485:THR:HB	1.84	0.59
1:J:331:VAL:O	1:J:425:SER:HA	2.03	0.59
1:J:489:GLU:CA	1:J:510:ARG:O	2.45	0.59
1:J:500:THR:HG21	1:J:506:THR:CG2	2.29	0.59
1:K:337:GLU:OE2	1:K:339:ALA:HB2	2.02	0.59
1:L:337:GLU:OE2	1:L:339:ALA:HB2	2.02	0.59
1:M:111:SER:HB3	1:N:198:THR:HA	1.85	0.59
1:N:292:LEU:CD1	1:N:311:VAL:CG1	2.77	0.59
1:C:294:ILE:HG12	1:C:305:ILE:HG23	1.85	0.59
1:D:596:GLN:HB3	1:D:613:VAL:HG23	1.83	0.59
1:F:331:VAL:HG11	1:F:472:LEU:HD22	1.84	0.59
1:H:221:PRO:CB	1:H:224:ARG:HH21	2.08	0.59
1:I:516:VAL:HG11	1:I:526:LEU:CD2	2.33	0.59
1:J:133:HIS:NE2	1:K:114:GLU:HB3	2.18	0.59
1:J:187:LEU:HG	1:J:190:ASP:HB2	1.84	0.59
1:L:299:THR:HB	1:M:326:ARG:CZ	2.33	0.59
1:N:331:VAL:HG11	1:N:472:LEU:HD22	1.83	0.59
1:O:106:PRO:HA	1:O:139:VAL:HA	1.85	0.59
1:O:473:THR:HG22	1:O:485:THR:HB	1.84	0.59
1:C:221:PRO:CB	1:C:224:ARG:HH21	2.09	0.59
1:C:439:GLY:CA	1:C:467:GLY:HA3	2.28	0.59
1:C:489:GLU:CA	1:C:510:ARG:O	2.45	0.59
1:D:101:VAL:HG21	1:D:103:ARG:HH21	1.68	0.59
1:E:155:VAL:O	1:E:159:VAL:HG23	2.03	0.59
1:F:167:VAL:HG21	1:G:230:MET:HE1	1.83	0.59
1:H:575:LEU:CD1	1:H:581:TYR:CD1	2.82	0.59
1:I:109:ASN:CG	1:I:163:GLY:O	2.41	0.59
1:I:122:LEU:HD12	1:I:152:LEU:HD23	1.84	0.59
1:I:207:VAL:HG12	1:I:208:ALA:N	2.18	0.59
1:J:207:VAL:HG12	1:J:208:ALA:N	2.18	0.59
1:L:207:VAL:HG12	1:L:208:ALA:N	2.18	0.59
1:L:221:PRO:HB3	1:L:224:ARG:CZ	2.32	0.59
1:M:207:VAL:HG12	1:M:208:ALA:N	2.18	0.59
1:M:258:VAL:HG22	1:M:303:LEU:CD1	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:294:ILE:HG12	1:M:305:ILE:HG23	1.85	0.59
1:A:331:VAL:O	1:A:425:SER:HA	2.03	0.58
1:B:207:VAL:HG12	1:B:208:ALA:N	2.18	0.58
1:C:117:PRO:O	1:C:121:GLN:CB	2.48	0.58
1:D:473:THR:HG22	1:D:485:THR:HB	1.84	0.58
1:E:523:THR:HG1	1:E:571:ARG:HD3	1.67	0.58
1:F:337:GLU:OE2	1:F:339:ALA:HB2	2.03	0.58
1:G:115:LEU:HD13	1:G:155:VAL:HG12	1.85	0.58
1:G:292:LEU:CD1	1:G:311:VAL:CG1	2.79	0.58
1:H:216:VAL:CG2	1:I:183:LEU:HD13	2.25	0.58
1:H:258:VAL:HG22	1:H:303:LEU:CD1	2.33	0.58
1:I:167:VAL:HG21	1:J:187:LEU:HB2	1.83	0.58
1:I:575:LEU:CD1	1:I:581:TYR:HD1	2.14	0.58
1:L:108:ARG:CD	1:M:220:GLU:OE1	2.50	0.58
1:O:122:LEU:HD12	1:O:152:LEU:HD23	1.85	0.58
1:A:473:THR:HG22	1:A:485:THR:HB	1.84	0.58
1:B:117:PRO:O	1:B:121:GLN:CB	2.48	0.58
1:B:294:ILE:HG12	1:B:305:ILE:HG23	1.85	0.58
1:B:394:ASN:HA	1:C:359:GLN:O	2.02	0.58
1:D:294:ILE:HG12	1:D:305:ILE:HG23	1.85	0.58
1:G:106:PRO:HA	1:G:139:VAL:HA	1.85	0.58
1:I:417:LYS:N	1:J:536:GLU:O	2.35	0.58
1:K:107:VAL:HB	1:K:112:VAL:CG1	2.33	0.58
1:N:101:VAL:HG21	1:N:103:ARG:HH21	1.68	0.58
1:N:107:VAL:CB	1:N:112:VAL:HG12	2.32	0.58
1:A:442:VAL:HG21	1:A:507:PHE:CZ	2.38	0.58
1:A:489:GLU:CA	1:A:510:ARG:O	2.45	0.58
1:B:398:ALA:HA	1:C:356:GLY:HA3	1.85	0.58
1:B:489:GLU:CA	1:B:510:ARG:O	2.45	0.58
1:C:473:THR:HG22	1:C:485:THR:HB	1.84	0.58
1:C:575:LEU:CD1	1:C:581:TYR:CD1	2.82	0.58
1:D:331:VAL:HG11	1:D:472:LEU:HD22	1.83	0.58
1:E:207:VAL:HG12	1:E:208:ALA:N	2.18	0.58
1:E:426:ILE:HA	1:F:527:GLY:HA2	1.83	0.58
1:J:473:THR:HG22	1:J:485:THR:HB	1.84	0.58
1:K:331:VAL:O	1:K:425:SER:HA	2.03	0.58
1:N:473:THR:HG22	1:N:485:THR:HB	1.84	0.58
1:O:207:VAL:HG12	1:O:208:ALA:N	2.19	0.58
1:O:258:VAL:HG22	1:O:303:LEU:CD1	2.34	0.58
1:O:331:VAL:O	1:O:425:SER:HA	2.03	0.58
1:A:337:GLU:OE2	1:A:339:ALA:HB2	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:337:GLU:OE2	1:E:339:ALA:HB2	2.02	0.58
1:E:473:THR:HG22	1:E:485:THR:HB	1.85	0.58
1:G:112:VAL:HB	1:G:140:LEU:HD12	1.86	0.58
1:G:141:LEU:HD22	1:H:159:VAL:CG2	2.32	0.58
1:H:396:MET:O	1:H:396:MET:HG2	2.03	0.58
1:I:331:VAL:O	1:I:425:SER:HA	2.04	0.58
1:L:473:THR:HG22	1:L:485:THR:HB	1.84	0.58
1:B:107:VAL:CB	1:B:112:VAL:HG12	2.32	0.58
1:E:394:ASN:HB3	1:E:412:LEU:HD22	1.85	0.58
1:G:258:VAL:HG22	1:G:303:LEU:CD1	2.33	0.58
1:G:473:THR:HG22	1:G:485:THR:HB	1.85	0.58
1:H:101:VAL:HG21	1:H:103:ARG:HH21	1.68	0.58
1:I:394:ASN:O	1:I:412:LEU:HD22	2.04	0.58
1:I:596:GLN:HB3	1:I:613:VAL:HG23	1.86	0.58
1:L:300:THR:CG2	1:M:324:ILE:HD11	2.33	0.58
1:M:473:THR:HG22	1:M:485:THR:HB	1.84	0.58
1:A:106:PRO:HA	1:A:139:VAL:HA	1.86	0.58
1:A:107:VAL:CB	1:A:112:VAL:HG12	2.33	0.58
1:B:473:THR:HG22	1:B:485:THR:HB	1.84	0.58
1:C:122:LEU:HD12	1:C:152:LEU:HD23	1.85	0.58
1:C:331:VAL:O	1:C:425:SER:HA	2.03	0.58
1:E:348:VAL:HG12	1:E:350:TRP:NE1	2.18	0.58
1:F:122:LEU:HD12	1:F:152:LEU:HD23	1.86	0.58
1:F:417:LYS:O	1:G:536:GLU:N	2.25	0.58
1:G:136:PRO:CD	1:H:110:VAL:CG1	2.82	0.58
1:G:523:THR:HG1	1:G:571:ARG:HD3	1.69	0.58
1:H:328:GLN:HE21	1:I:517:LEU:CA	2.16	0.58
1:J:439:GLY:CA	1:J:467:GLY:HA3	2.29	0.58
1:K:473:THR:HG22	1:K:485:THR:HB	1.84	0.58
1:N:211:ARG:HA	1:O:243:ASN:ND2	2.17	0.58
1:O:331:VAL:HG11	1:O:472:LEU:HD22	1.83	0.58
1:C:111:SER:HB3	1:D:198:THR:HA	1.84	0.58
1:D:394:ASN:OD1	1:E:361:THR:N	2.37	0.58
1:E:251:TYR:OH	1:F:477:ASN:ND2	2.36	0.58
1:F:331:VAL:O	1:F:425:SER:HA	2.04	0.58
1:H:328:GLN:NE2	1:I:517:LEU:CA	2.67	0.58
1:K:258:VAL:HG22	1:K:303:LEU:CD1	2.34	0.58
1:K:489:GLU:CA	1:K:510:ARG:O	2.46	0.58
1:L:394:ASN:HA	1:M:359:GLN:O	2.03	0.58
1:N:331:VAL:O	1:N:425:SER:HA	2.03	0.58
1:A:221:PRO:HB3	1:A:224:ARG:CZ	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:207:VAL:HG12	1:C:208:ALA:N	2.19	0.58
1:D:489:GLU:CA	1:D:510:ARG:O	2.46	0.58
1:G:331:VAL:O	1:G:425:SER:HA	2.03	0.58
1:H:122:LEU:HD12	1:H:152:LEU:HD23	1.86	0.58
1:H:221:PRO:HB3	1:H:224:ARG:CZ	2.34	0.58
1:H:394:ASN:O	1:H:412:LEU:HD22	2.04	0.58
1:I:155:VAL:O	1:I:159:VAL:HG23	2.02	0.58
1:I:177:ALA:HB1	1:I:208:ALA:CB	2.32	0.58
1:J:258:VAL:HG22	1:J:303:LEU:CD1	2.34	0.58
1:M:122:LEU:HD12	1:M:152:LEU:HD23	1.85	0.58
1:N:122:LEU:HD12	1:N:152:LEU:HD23	1.86	0.58
1:N:258:VAL:HG22	1:N:303:LEU:CD1	2.34	0.58
1:A:461:ILE:HD11	1:B:445:GLN:O	2.04	0.58
1:D:592:PHE:CE2	1:E:336:VAL:HG21	2.38	0.58
1:E:294:ILE:HG12	1:E:305:ILE:HG23	1.85	0.58
1:F:328:GLN:NE2	1:G:517:LEU:C	2.55	0.58
1:G:102:THR:O	1:H:158:ARG:NH2	2.36	0.58
1:G:122:LEU:HD12	1:G:152:LEU:HD23	1.86	0.58
1:G:201:LEU:HB3	1:H:189:LYS:NZ	2.18	0.58
1:G:221:PRO:HB3	1:G:224:ARG:CZ	2.32	0.58
1:H:294:ILE:HG12	1:H:305:ILE:HG23	1.85	0.58
1:I:523:THR:HG1	1:I:571:ARG:HD3	1.68	0.58
1:J:122:LEU:HD12	1:J:152:LEU:HD23	1.85	0.58
1:K:221:PRO:HB3	1:K:224:ARG:CZ	2.32	0.58
1:L:107:VAL:HB	1:L:112:VAL:CG1	2.33	0.58
1:L:331:VAL:O	1:L:425:SER:HA	2.03	0.58
1:A:136:PRO:O	1:B:199:SER:HB2	2.04	0.58
1:A:324:ILE:HD11	1:O:300:THR:CG2	2.34	0.58
1:G:141:LEU:HD22	1:H:159:VAL:CA	2.34	0.58
1:H:133:HIS:CD2	1:I:115:LEU:HD23	2.38	0.58
1:H:136:PRO:HG2	1:I:110:VAL:HG13	1.82	0.58
1:H:167:VAL:CG2	1:I:230:MET:SD	2.92	0.58
1:H:468:THR:HG21	1:I:529:LEU:HD13	1.86	0.58
1:I:119:LEU:HD22	1:I:152:LEU:HD23	1.86	0.58
1:I:136:PRO:HB3	1:J:199:SER:OG	2.04	0.58
1:J:107:VAL:HB	1:J:112:VAL:CG1	2.33	0.58
1:J:108:ARG:HD3	1:K:220:GLU:OE1	2.04	0.58
1:J:294:ILE:HG12	1:J:305:ILE:HG23	1.85	0.58
1:L:394:ASN:O	1:L:412:LEU:HD22	2.04	0.58
1:L:500:THR:HG21	1:L:506:THR:CG2	2.29	0.58
1:M:107:VAL:HB	1:M:112:VAL:CG1	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:VAL:HG12	1:A:208:ALA:N	2.19	0.57
1:A:394:ASN:O	1:A:412:LEU:HD22	2.03	0.57
1:E:258:VAL:HG22	1:E:303:LEU:CD1	2.34	0.57
1:F:473:THR:HG22	1:F:485:THR:HB	1.85	0.57
1:H:202:LEU:N	1:I:189:LYS:HG3	2.19	0.57
1:H:243:ASN:HB3	1:I:314:GLU:OE2	2.04	0.57
1:H:292:LEU:CD1	1:H:311:VAL:CG1	2.79	0.57
1:K:111:SER:HB3	1:L:198:THR:HG23	1.85	0.57
1:K:294:ILE:HG12	1:K:305:ILE:HG23	1.85	0.57
1:L:122:LEU:HD12	1:L:152:LEU:HD23	1.85	0.57
1:M:301:ASN:HB2	1:N:431:ASN:CG	2.25	0.57
1:M:331:VAL:O	1:M:425:SER:HA	2.03	0.57
1:N:138:ASN:ND2	1:O:198:THR:O	2.34	0.57
1:A:328:GLN:NE2	1:B:517:LEU:C	2.55	0.57
1:A:331:VAL:HG11	1:A:472:LEU:HD22	1.84	0.57
1:E:101:VAL:HG21	1:E:103:ARG:HH21	1.70	0.57
1:F:115:LEU:HD13	1:F:155:VAL:HG12	1.86	0.57
1:H:102:THR:C	1:I:158:ARG:HH21	2.07	0.57
1:H:108:ARG:HA	1:I:220:GLU:CD	2.24	0.57
1:J:221:PRO:CB	1:J:224:ARG:HH21	2.10	0.57
1:M:394:ASN:O	1:M:412:LEU:HD22	2.04	0.57
1:N:106:PRO:HA	1:N:139:VAL:HA	1.86	0.57
1:N:221:PRO:HB3	1:N:224:ARG:CZ	2.32	0.57
1:A:390:ALA:O	1:B:359:GLN:NE2	2.37	0.57
1:B:258:VAL:HG22	1:B:303:LEU:CD1	2.34	0.57
1:E:581:TYR:CE2	1:F:524:VAL:CG1	2.86	0.57
1:F:258:VAL:HG22	1:F:303:LEU:CD1	2.34	0.57
1:H:411:ALA:HB1	1:I:542:PRO:HG2	1.86	0.57
1:I:109:ASN:CB	1:I:163:GLY:O	2.52	0.57
1:L:294:ILE:HG12	1:L:305:ILE:HG23	1.85	0.57
1:M:108:ARG:HD3	1:N:220:GLU:OE1	2.04	0.57
1:A:294:ILE:HG12	1:A:305:ILE:HG23	1.85	0.57
1:B:106:PRO:HA	1:B:139:VAL:HA	1.86	0.57
1:D:106:PRO:HA	1:D:139:VAL:HA	1.87	0.57
1:E:136:PRO:HB3	1:F:199:SER:OG	2.04	0.57
1:F:489:GLU:CA	1:F:510:ARG:O	2.45	0.57
1:G:575:LEU:CD1	1:G:581:TYR:CD1	2.82	0.57
1:H:489:GLU:CA	1:H:510:ARG:O	2.45	0.57
1:M:466:VAL:HG11	1:M:507:PHE:CE1	2.40	0.57
1:O:117:PRO:O	1:O:121:GLN:CB	2.48	0.57
1:A:517:LEU:N	1:O:328:GLN:HE21	2.01	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:122:LEU:HD12	1:D:152:LEU:HD23	1.86	0.57
1:E:591:LEU:O	1:E:595:GLN:HG3	2.04	0.57
1:H:137:SER:OG	1:I:163:GLY:O	2.22	0.57
1:H:201:LEU:O	1:I:189:LYS:CB	2.53	0.57
1:H:331:VAL:O	1:H:425:SER:HA	2.04	0.57
1:K:207:VAL:HG21	1:L:186:ASN:HB2	1.86	0.57
1:L:258:VAL:HG22	1:L:303:LEU:CD1	2.33	0.57
1:L:466:VAL:HG11	1:L:507:PHE:CE1	2.39	0.57
1:O:155:VAL:O	1:O:159:VAL:HG23	2.04	0.57
1:B:301:ASN:HB2	1:C:431:ASN:CG	2.25	0.57
1:B:466:VAL:HG11	1:B:507:PHE:CE1	2.39	0.57
1:D:258:VAL:HG22	1:D:303:LEU:CD1	2.34	0.57
1:E:394:ASN:CB	1:E:412:LEU:HD22	2.34	0.57
1:E:605:TYR:OH	1:G:548:PRO:CB	2.48	0.57
1:J:466:VAL:HG11	1:J:507:PHE:CE1	2.39	0.57
1:O:394:ASN:O	1:O:412:LEU:HD22	2.05	0.57
1:A:361:THR:CB	1:O:394:ASN:HD21	2.17	0.57
1:C:111:SER:CB	1:D:198:THR:HA	2.35	0.57
1:C:466:VAL:HG11	1:C:507:PHE:CE1	2.40	0.57
1:E:172:LEU:HD21	1:E:215:VAL:HG23	1.87	0.57
1:E:596:GLN:HG2	1:F:338:ILE:CD1	2.35	0.57
1:G:119:LEU:HD22	1:G:152:LEU:HD23	1.86	0.57
1:G:294:ILE:HG12	1:G:305:ILE:HG23	1.86	0.57
1:J:523:THR:HG1	1:J:571:ARG:HD3	1.67	0.57
1:N:107:VAL:HB	1:N:112:VAL:CG1	2.33	0.57
1:N:394:ASN:O	1:N:412:LEU:HD22	2.05	0.57
1:N:417:LYS:O	1:O:536:GLU:N	2.23	0.57
1:N:466:VAL:HG11	1:N:507:PHE:CE1	2.40	0.57
1:D:331:VAL:O	1:D:425:SER:HA	2.04	0.57
1:E:596:GLN:NE2	1:F:338:ILE:HD11	2.20	0.57
1:F:168:ASP:CG	1:F:224:ARG:HG2	2.25	0.57
1:H:328:GLN:NE2	1:I:517:LEU:N	2.49	0.57
1:J:394:ASN:O	1:J:412:LEU:HD22	2.04	0.57
1:K:417:LYS:O	1:L:536:GLU:N	2.23	0.57
1:L:107:VAL:CB	1:L:112:VAL:HG12	2.32	0.57
1:M:115:LEU:HD11	1:M:159:VAL:CG2	2.34	0.57
1:O:221:PRO:HB3	1:O:224:ARG:CZ	2.33	0.57
1:A:466:VAL:HG11	1:A:507:PHE:CE1	2.39	0.57
1:A:524:VAL:HG11	1:O:581:TYR:CE2	2.39	0.57
1:C:328:GLN:HE21	1:D:517:LEU:N	2.00	0.57
1:C:394:ASN:O	1:C:412:LEU:HD22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:139:VAL:CG2	1:G:162:ALA:O	2.52	0.57
1:F:402:GLN:HB3	1:F:405:TRP:CE2	2.40	0.57
1:G:348:VAL:HG12	1:G:350:TRP:NE1	2.20	0.57
1:H:500:THR:CG2	1:H:506:THR:CG2	2.83	0.57
1:I:466:VAL:HG11	1:I:507:PHE:CE1	2.39	0.57
1:K:348:VAL:HG12	1:K:350:TRP:NE1	2.20	0.57
1:K:394:ASN:O	1:K:412:LEU:HD22	2.05	0.57
1:K:461:ILE:HD11	1:L:445:GLN:O	2.04	0.57
1:L:398:ALA:HA	1:M:356:GLY:HA3	1.87	0.57
1:N:395:GLY:O	1:O:358:THR:HA	2.03	0.57
1:A:301:ASN:HB2	1:B:431:ASN:CG	2.25	0.57
1:C:106:PRO:HA	1:C:139:VAL:HA	1.87	0.57
1:D:107:VAL:HB	1:D:112:VAL:CG1	2.32	0.57
1:G:300:THR:CG2	1:H:324:ILE:HD11	2.35	0.57
1:G:438:VAL:HB	1:H:529:LEU:CD2	2.35	0.57
1:H:295:SER:OG	1:I:260:VAL:O	2.18	0.57
1:I:118:LEU:HD22	1:I:119:LEU:CD2	2.34	0.57
1:L:301:ASN:HB2	1:M:431:ASN:CG	2.25	0.57
1:L:575:LEU:CD1	1:L:581:TYR:CD1	2.82	0.57
1:N:394:ASN:OD1	1:O:360:PHE:HA	2.05	0.57
1:O:489:GLU:CA	1:O:510:ARG:O	2.46	0.57
1:B:107:VAL:HB	1:B:112:VAL:CG1	2.33	0.56
1:F:466:VAL:HG11	1:F:507:PHE:CE1	2.40	0.56
1:H:348:VAL:HG12	1:H:350:TRP:NE1	2.21	0.56
1:H:424:PRO:HA	1:I:528:GLY:O	2.04	0.56
1:I:489:GLU:CA	1:I:510:ARG:O	2.46	0.56
1:K:106:PRO:HA	1:K:139:VAL:HA	1.86	0.56
1:K:167:VAL:HG21	1:L:230:MET:HE1	1.87	0.56
1:K:211:ARG:HA	1:L:243:ASN:ND2	2.20	0.56
1:K:394:ASN:OD1	1:L:360:PHE:HA	2.05	0.56
1:O:466:VAL:HG11	1:O:507:PHE:CE1	2.40	0.56
1:A:258:VAL:HG22	1:A:303:LEU:CD1	2.35	0.56
1:C:258:VAL:HG22	1:C:303:LEU:CD1	2.35	0.56
1:D:207:VAL:HG12	1:D:208:ALA:N	2.20	0.56
1:E:122:LEU:HD12	1:E:152:LEU:HD23	1.87	0.56
1:H:108:ARG:CD	1:I:223:ALA:N	2.68	0.56
1:H:394:ASN:HD21	1:I:361:THR:HG22	1.69	0.56
1:I:369:SER:O	1:I:372:ILE:HG13	2.06	0.56
1:J:402:GLN:HB3	1:J:405:TRP:CE2	2.40	0.56
1:K:122:LEU:HD12	1:K:152:LEU:HD23	1.85	0.56
1:N:118:LEU:HD22	1:N:119:LEU:CD2	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:417:LYS:O	1:C:536:GLU:N	2.20	0.56
1:C:141:LEU:HD22	1:D:159:VAL:HG22	1.87	0.56
1:C:328:GLN:NE2	1:D:517:LEU:C	2.58	0.56
1:C:412:LEU:HD12	1:D:540:LYS:O	2.05	0.56
1:D:348:VAL:HG12	1:D:350:TRP:NE1	2.20	0.56
1:E:331:VAL:HG11	1:E:472:LEU:HD22	1.87	0.56
1:E:489:GLU:CA	1:E:510:ARG:O	2.47	0.56
1:F:119:LEU:HD22	1:F:152:LEU:HD23	1.86	0.56
1:F:139:VAL:HG21	1:G:163:GLY:N	2.20	0.56
1:F:348:VAL:HG12	1:F:350:TRP:NE1	2.21	0.56
1:G:207:VAL:HG12	1:G:208:ALA:N	2.20	0.56
1:G:500:THR:CG2	1:G:506:THR:CG2	2.83	0.56
1:H:102:THR:OG1	1:I:158:ARG:NE	2.31	0.56
1:H:108:ARG:HD3	1:I:223:ALA:N	2.21	0.56
1:H:187:LEU:HG	1:H:190:ASP:HB2	1.86	0.56
1:H:202:LEU:HD12	1:I:189:LYS:HE2	1.87	0.56
1:H:402:GLN:HB3	1:H:405:TRP:CE2	2.41	0.56
1:K:118:LEU:HD22	1:K:119:LEU:CD2	2.34	0.56
1:K:207:VAL:HG12	1:K:208:ALA:N	2.19	0.56
1:K:575:LEU:CD1	1:K:581:TYR:CD1	2.82	0.56
1:L:328:GLN:HE21	1:M:517:LEU:N	2.04	0.56
1:M:111:SER:CB	1:N:198:THR:HA	2.34	0.56
1:M:348:VAL:HG12	1:M:350:TRP:NE1	2.20	0.56
1:N:461:ILE:HG12	1:O:445:GLN:CB	2.33	0.56
1:F:328:GLN:NE2	1:G:517:LEU:H	2.03	0.56
1:K:300:THR:CG2	1:L:324:ILE:HD11	2.35	0.56
1:N:207:VAL:HG12	1:N:208:ALA:N	2.19	0.56
1:N:445:GLN:HE21	1:O:503:LEU:CD2	2.18	0.56
1:O:516:VAL:HG11	1:O:526:LEU:CD2	2.36	0.56
1:D:139:VAL:HG21	1:E:162:ALA:CB	2.35	0.56
1:H:300:THR:N	1:I:326:ARG:HD3	2.19	0.56
1:I:106:PRO:HA	1:I:139:VAL:HA	1.87	0.56
1:I:439:GLY:CA	1:I:467:GLY:HA3	2.28	0.56
1:K:466:VAL:HG11	1:K:507:PHE:CE1	2.40	0.56
1:L:106:PRO:HA	1:L:139:VAL:HA	1.87	0.56
1:N:500:THR:HG21	1:N:506:THR:CG2	2.28	0.56
1:G:139:VAL:HG11	1:H:163:GLY:HA2	1.87	0.56
1:G:340:ASP:CB	1:G:416:THR:O	2.54	0.56
1:G:417:LYS:O	1:H:536:GLU:N	2.28	0.56
1:I:611:ARG:NH2	1:J:417:LYS:HD2	2.21	0.56
1:J:348:VAL:HG12	1:J:350:TRP:NE1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:107:VAL:HB	1:O:112:VAL:CG1	2.33	0.56
1:B:348:VAL:HG12	1:B:350:TRP:NE1	2.20	0.56
1:C:348:VAL:HG12	1:C:350:TRP:NE1	2.21	0.56
1:D:221:PRO:HB3	1:D:224:ARG:CZ	2.33	0.56
1:E:106:PRO:HA	1:E:139:VAL:HA	1.88	0.56
1:F:106:PRO:HA	1:F:139:VAL:HA	1.88	0.56
1:F:468:THR:HG21	1:G:529:LEU:HD13	1.88	0.56
1:G:489:GLU:CA	1:G:510:ARG:O	2.46	0.56
1:H:109:ASN:CB	1:H:163:GLY:O	2.53	0.56
1:H:466:VAL:HG11	1:H:507:PHE:CE1	2.40	0.56
1:I:461:ILE:HG12	1:J:445:GLN:CB	2.34	0.56
1:L:168:ASP:CG	1:L:224:ARG:HG2	2.25	0.56
1:M:106:PRO:HA	1:M:139:VAL:HA	1.87	0.56
1:M:118:LEU:HD22	1:M:119:LEU:CD2	2.35	0.56
1:O:168:ASP:CG	1:O:224:ARG:HG2	2.26	0.56
1:A:172:LEU:HD21	1:A:215:VAL:HG23	1.88	0.56
1:B:155:VAL:O	1:B:159:VAL:HG23	2.06	0.56
1:C:115:LEU:HD11	1:C:159:VAL:CG2	2.35	0.56
1:D:394:ASN:O	1:D:412:LEU:HB2	2.06	0.56
1:D:466:VAL:HG11	1:D:507:PHE:CE1	2.40	0.56
1:E:115:LEU:HD11	1:E:159:VAL:CG2	2.34	0.56
1:F:294:ILE:HG12	1:F:305:ILE:HG23	1.86	0.56
1:F:340:ASP:CB	1:F:416:THR:O	2.53	0.56
1:F:596:GLN:HB2	1:F:613:VAL:HG23	1.87	0.56
1:G:402:GLN:HB3	1:G:405:TRP:CE2	2.40	0.56
1:G:461:ILE:HD11	1:H:445:GLN:O	2.06	0.56
1:I:348:VAL:HG12	1:I:350:TRP:NE1	2.21	0.56
1:J:301:ASN:HB2	1:K:431:ASN:CG	2.25	0.56
1:K:216:VAL:HG21	1:L:183:LEU:HD22	1.87	0.56
1:N:439:GLY:CA	1:N:467:GLY:HA3	2.29	0.56
1:O:348:VAL:HG12	1:O:350:TRP:NE1	2.20	0.56
1:A:221:PRO:CB	1:A:224:ARG:HH21	2.08	0.56
1:C:107:VAL:HB	1:C:112:VAL:CG1	2.33	0.56
1:D:596:GLN:HB2	1:D:613:VAL:HG23	1.88	0.56
1:H:516:VAL:HG11	1:H:526:LEU:CD2	2.36	0.56
1:J:575:LEU:CD1	1:J:581:TYR:CD1	2.82	0.56
1:M:133:HIS:NE2	1:N:114:GLU:HB3	2.20	0.56
1:N:348:VAL:HG12	1:N:350:TRP:NE1	2.20	0.56
1:N:516:VAL:HG11	1:N:526:LEU:CD2	2.36	0.56
1:A:308:GLN:HG2	1:O:176:SER:OG	2.06	0.56
1:E:348:VAL:CG1	1:E:350:TRP:HE1	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:172:LEU:HD21	1:F:215:VAL:HG23	1.88	0.56
1:F:500:THR:CG2	1:F:506:THR:CG2	2.84	0.56
1:J:395:GLY:O	1:K:358:THR:HA	2.06	0.56
1:J:596:GLN:HB2	1:J:613:VAL:HG23	1.88	0.56
1:K:402:GLN:HB3	1:K:405:TRP:CE2	2.41	0.56
1:M:168:ASP:CG	1:M:224:ARG:HG2	2.26	0.56
1:A:110:VAL:HG21	1:O:135:ASP:CB	2.36	0.55
1:A:133:HIS:NE2	1:B:114:GLU:O	2.39	0.55
1:A:348:VAL:HG12	1:A:350:TRP:NE1	2.20	0.55
1:A:439:GLY:CA	1:A:467:GLY:HA3	2.29	0.55
1:C:168:ASP:CG	1:C:224:ARG:HG2	2.26	0.55
1:D:523:THR:HG1	1:D:571:ARG:HD3	1.70	0.55
1:E:168:ASP:CG	1:E:224:ARG:HG2	2.27	0.55
1:E:395:GLY:O	1:F:358:THR:HA	2.06	0.55
1:E:500:THR:CG2	1:E:506:THR:CG2	2.82	0.55
1:G:466:VAL:HG11	1:G:507:PHE:CE1	2.41	0.55
1:H:104:VAL:CG2	1:I:158:ARG:NE	2.69	0.55
1:H:118:LEU:HD22	1:H:119:LEU:CD2	2.33	0.55
1:H:167:VAL:CG2	1:I:230:MET:HE3	2.27	0.55
1:H:596:GLN:HB2	1:H:613:VAL:HG23	1.88	0.55
1:I:207:VAL:HG12	1:I:208:ALA:H	1.70	0.55
1:I:500:THR:CG2	1:I:506:THR:CG2	2.84	0.55
1:I:575:LEU:CD1	1:I:581:TYR:CD1	2.85	0.55
1:J:168:ASP:CG	1:J:224:ARG:HG2	2.26	0.55
1:L:402:GLN:HB3	1:L:405:TRP:CE2	2.41	0.55
1:C:596:GLN:HB2	1:C:613:VAL:HG23	1.88	0.55
1:D:168:ASP:CG	1:D:224:ARG:HG2	2.26	0.55
1:E:346:LEU:O	1:E:557:THR:N	2.39	0.55
1:E:424:PRO:HB3	1:F:529:LEU:HD13	1.88	0.55
1:E:596:GLN:HB2	1:E:613:VAL:HG23	1.88	0.55
1:F:102:THR:HG23	1:G:158:ARG:CZ	2.35	0.55
1:F:329:VAL:HG23	1:F:476:ILE:HD11	1.86	0.55
1:G:104:VAL:HG22	1:G:141:LEU:HA	1.87	0.55
1:G:172:LEU:HD21	1:G:215:VAL:HG23	1.88	0.55
1:G:596:GLN:HB2	1:G:613:VAL:HG23	1.88	0.55
1:H:244:THR:OG1	1:I:314:GLU:OE2	2.15	0.55
1:H:418:SER:HA	1:I:534:THR:O	2.06	0.55
1:K:168:ASP:CG	1:K:224:ARG:HG2	2.26	0.55
1:K:176:SER:OG	1:L:308:GLN:HG2	2.06	0.55
1:K:596:GLN:HB2	1:K:613:VAL:HG23	1.88	0.55
1:L:596:GLN:HB2	1:L:613:VAL:HG23	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:402:GLN:HB3	1:M:405:TRP:CE2	2.41	0.55
1:M:596:GLN:HB2	1:M:613:VAL:HG23	1.88	0.55
1:N:111:SER:HB3	1:O:198:THR:HG23	1.87	0.55
1:N:489:GLU:CA	1:N:510:ARG:O	2.46	0.55
1:O:439:GLY:CA	1:O:467:GLY:HA3	2.29	0.55
1:C:133:HIS:NE2	1:D:114:GLU:HB3	2.21	0.55
1:D:136:PRO:HD2	1:E:110:VAL:CG1	2.35	0.55
1:D:209:ASP:HB2	1:E:183:LEU:HD21	1.88	0.55
1:E:119:LEU:HD22	1:E:152:LEU:HD23	1.88	0.55
1:E:516:VAL:HG11	1:E:526:LEU:CD2	2.36	0.55
1:F:104:VAL:HG23	1:G:158:ARG:HD2	1.88	0.55
1:F:516:VAL:HG11	1:F:526:LEU:CD2	2.36	0.55
1:G:394:ASN:O	1:G:412:LEU:HD22	2.07	0.55
1:K:138:ASN:ND2	1:L:198:THR:O	2.33	0.55
1:L:500:THR:CG2	1:L:506:THR:CG2	2.84	0.55
1:M:439:GLY:CA	1:M:467:GLY:HA3	2.29	0.55
1:N:500:THR:CG2	1:N:506:THR:CG2	2.85	0.55
1:O:118:LEU:HD22	1:O:119:LEU:CD2	2.34	0.55
1:A:431:ASN:ND2	1:O:301:ASN:HB2	2.22	0.55
1:B:523:THR:HG1	1:B:571:ARG:HD3	1.67	0.55
1:E:207:VAL:HG12	1:E:208:ALA:H	1.70	0.55
1:E:586:SER:O	1:E:590:THR:HG23	2.06	0.55
1:G:516:VAL:HG11	1:G:526:LEU:CD2	2.36	0.55
1:H:202:LEU:HD12	1:I:189:LYS:CE	2.36	0.55
1:H:437:ASN:HB3	1:I:511:THR:HB	1.88	0.55
1:I:180:MET:SD	1:I:234:LEU:HB3	2.46	0.55
1:I:402:GLN:HB3	1:I:405:TRP:CE2	2.41	0.55
1:K:500:THR:CG2	1:K:506:THR:CG2	2.85	0.55
1:L:417:LYS:O	1:M:536:GLU:N	2.21	0.55
1:M:172:LEU:HD21	1:M:215:VAL:HG23	1.89	0.55
1:O:442:VAL:CG2	1:O:507:PHE:HZ	2.19	0.55
1:A:329:VAL:HG23	1:A:476:ILE:HD11	1.88	0.55
1:B:168:ASP:CG	1:B:224:ARG:HG2	2.26	0.55
1:B:172:LEU:HD21	1:B:215:VAL:HG23	1.89	0.55
1:B:596:GLN:HB2	1:B:613:VAL:HG23	1.88	0.55
1:C:461:ILE:HG12	1:D:445:GLN:CB	2.37	0.55
1:D:328:GLN:HE21	1:E:517:LEU:H	1.53	0.55
1:D:500:THR:CG2	1:D:506:THR:CG2	2.84	0.55
1:E:482:VAL:HG21	1:E:572:PRO:CB	2.34	0.55
1:H:119:LEU:HD22	1:H:152:LEU:HD23	1.88	0.55
1:H:202:LEU:CD1	1:I:189:LYS:CD	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:207:VAL:HG11	1:I:183:LEU:CA	2.17	0.55
1:I:141:LEU:O	1:I:141:LEU:HD12	2.05	0.55
1:I:207:VAL:CG1	1:J:186:ASN:ND2	2.69	0.55
1:K:442:VAL:CG2	1:K:507:PHE:HZ	2.20	0.55
1:K:516:VAL:HG11	1:K:526:LEU:CD2	2.36	0.55
1:L:348:VAL:HG12	1:L:350:TRP:NE1	2.20	0.55
1:N:168:ASP:CG	1:N:224:ARG:HG2	2.26	0.55
1:A:230:MET:HE1	1:O:167:VAL:HG21	1.89	0.55
1:A:402:GLN:HB3	1:A:405:TRP:CE2	2.41	0.55
1:B:108:ARG:CD	1:C:220:GLU:OE1	2.54	0.55
1:B:328:GLN:HE21	1:C:517:LEU:N	2.00	0.55
1:C:402:GLN:HB3	1:C:405:TRP:CE2	2.41	0.55
1:D:104:VAL:HG23	1:E:158:ARG:HD2	1.88	0.55
1:D:300:THR:CG2	1:E:324:ILE:HD11	2.36	0.55
1:D:516:VAL:HG11	1:D:526:LEU:CD2	2.36	0.55
1:E:250:LYS:HB2	1:F:477:ASN:HA	1.89	0.55
1:E:402:GLN:HB3	1:E:405:TRP:CE2	2.41	0.55
1:E:466:VAL:HG11	1:E:507:PHE:CE1	2.41	0.55
1:F:321:LYS:O	1:F:324:ILE:HG23	2.07	0.55
1:F:436:PHE:CE2	1:F:438:VAL:HG23	2.42	0.55
1:G:155:VAL:O	1:G:159:VAL:HG23	2.07	0.55
1:H:201:LEU:CD1	1:I:189:LYS:NZ	2.70	0.55
1:H:202:LEU:CD1	1:I:189:LYS:HD2	2.37	0.55
1:I:305:ILE:HG21	1:I:315:LEU:HD13	1.88	0.55
1:J:369:SER:O	1:J:372:ILE:HG13	2.07	0.55
1:K:133:HIS:NE2	1:L:114:GLU:CB	2.55	0.55
1:N:328:GLN:HE21	1:O:517:LEU:N	2.05	0.55
1:N:346:LEU:O	1:N:557:THR:N	2.40	0.55
1:O:500:THR:CG2	1:O:506:THR:CG2	2.84	0.55
1:B:516:VAL:HG11	1:B:526:LEU:CD2	2.37	0.55
1:D:596:GLN:HE21	1:E:338:ILE:HD11	1.71	0.55
1:E:578:ALA:HB3	1:F:519:LYS:HE3	1.88	0.55
1:G:394:ASN:O	1:G:412:LEU:HB2	2.06	0.55
1:H:169:ILE:CD1	1:I:234:LEU:CD2	2.79	0.55
1:J:106:PRO:HA	1:J:139:VAL:HA	1.87	0.55
1:J:172:LEU:HD21	1:J:215:VAL:HG23	1.89	0.55
1:K:112:VAL:HB	1:K:140:LEU:HD12	1.89	0.55
1:K:187:LEU:HG	1:K:190:ASP:HB2	1.89	0.55
1:L:116:ALA:HB3	1:L:117:PRO:HD3	1.89	0.55
1:L:394:ASN:HD21	1:M:361:THR:HB	1.72	0.55
1:N:111:SER:HB3	1:O:198:THR:CA	2.29	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:442:VAL:CG2	1:N:507:PHE:HZ	2.20	0.55
1:N:461:ILE:CG1	1:O:445:GLN:HB2	2.35	0.55
1:A:116:ALA:HB3	1:A:117:PRO:HD3	1.88	0.55
1:B:439:GLY:CA	1:B:467:GLY:HA3	2.29	0.55
1:F:211:ARG:HA	1:G:243:ASN:HD21	1.70	0.55
1:G:115:LEU:HD11	1:G:159:VAL:CG2	2.37	0.55
1:H:157:ARG:O	1:H:160:ASP:HB3	2.06	0.55
1:H:248:TYR:OH	1:I:324:ILE:HG21	2.06	0.55
1:H:383:THR:HB	1:I:372:ILE:HG21	1.88	0.55
1:J:107:VAL:CB	1:J:112:VAL:HG12	2.32	0.55
1:L:118:LEU:HD22	1:L:119:LEU:CD2	2.35	0.55
1:L:172:LEU:HD21	1:L:215:VAL:HG23	1.89	0.55
1:L:187:LEU:HG	1:L:190:ASP:HB2	1.89	0.55
1:L:207:VAL:HG12	1:L:208:ALA:H	1.72	0.55
1:M:394:ASN:HD21	1:N:361:THR:HB	1.72	0.55
1:N:172:LEU:HD21	1:N:215:VAL:HG23	1.89	0.55
1:B:442:VAL:CG2	1:B:507:PHE:HZ	2.20	0.55
1:C:172:LEU:HD21	1:C:215:VAL:HG23	1.89	0.55
1:D:402:GLN:HB3	1:D:405:TRP:CE2	2.41	0.55
1:E:488:GLN:O	1:E:511:THR:HA	2.07	0.55
1:G:104:VAL:HG23	1:H:158:ARG:HH11	1.71	0.55
1:J:139:VAL:HG21	1:K:162:ALA:C	2.28	0.55
1:K:329:VAL:HG23	1:K:476:ILE:HD11	1.89	0.55
1:M:346:LEU:O	1:M:557:THR:N	2.40	0.55
1:N:136:PRO:HD2	1:O:110:VAL:HG13	1.88	0.55
1:N:402:GLN:HB3	1:N:405:TRP:CE2	2.41	0.55
1:O:172:LEU:HD21	1:O:215:VAL:HG23	1.89	0.55
1:A:500:THR:CG2	1:A:506:THR:CG2	2.83	0.55
1:A:516:VAL:HG11	1:A:526:LEU:CD2	2.37	0.55
1:A:591:LEU:O	1:A:595:GLN:HG3	2.07	0.55
1:D:172:LEU:HD21	1:D:215:VAL:HG23	1.89	0.55
1:D:390:ALA:O	1:E:359:GLN:NE2	2.40	0.55
1:D:424:PRO:HA	1:E:528:GLY:O	2.07	0.55
1:F:394:ASN:O	1:F:412:LEU:HD22	2.06	0.55
1:F:394:ASN:O	1:F:412:LEU:HB2	2.06	0.55
1:G:141:LEU:CD2	1:H:159:VAL:HA	2.36	0.55
1:G:329:VAL:HG23	1:G:476:ILE:HD11	1.87	0.55
1:H:112:VAL:HB	1:H:140:LEU:HD12	1.88	0.55
1:H:439:GLY:CA	1:H:467:GLY:HA3	2.29	0.55
1:I:596:GLN:HB2	1:I:613:VAL:HG23	1.88	0.55
1:J:346:LEU:O	1:J:557:THR:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:329:VAL:HG23	1:L:476:ILE:HD11	1.89	0.55
1:M:348:VAL:CG1	1:M:350:TRP:HE1	2.20	0.55
1:N:348:VAL:CG1	1:N:350:TRP:HE1	2.20	0.55
1:N:596:GLN:HB2	1:N:613:VAL:HG23	1.88	0.55
1:O:348:VAL:CG1	1:O:350:TRP:HE1	2.20	0.55
1:O:402:GLN:HB3	1:O:405:TRP:CE2	2.41	0.55
1:A:168:ASP:CG	1:A:224:ARG:HG2	2.27	0.54
1:D:115:LEU:HD11	1:D:159:VAL:CG2	2.37	0.54
1:D:346:LEU:O	1:D:557:THR:N	2.40	0.54
1:E:581:TYR:HE2	1:F:518:VAL:HG22	1.72	0.54
1:G:205:LYS:HZ3	1:H:188:ASN:HB2	1.71	0.54
1:H:202:LEU:HD12	1:I:189:LYS:HG3	1.89	0.54
1:J:118:LEU:HD22	1:J:119:LEU:CD2	2.35	0.54
1:K:348:VAL:CG1	1:K:350:TRP:HE1	2.20	0.54
1:L:516:VAL:HG11	1:L:526:LEU:CD2	2.37	0.54
1:M:253:LYS:HG2	1:N:475:GLN:OE1	2.06	0.54
1:M:301:ASN:HB2	1:N:431:ASN:ND2	2.22	0.54
1:M:500:THR:CG2	1:M:506:THR:CG2	2.85	0.54
1:C:301:ASN:HB2	1:D:431:ASN:CG	2.27	0.54
1:D:383:THR:HB	1:E:372:ILE:HB	1.89	0.54
1:D:575:LEU:CD1	1:D:581:TYR:CD1	2.83	0.54
1:H:244:THR:HG23	1:H:305:ILE:O	2.07	0.54
1:H:461:ILE:HG12	1:I:445:GLN:CB	2.31	0.54
1:M:116:ALA:HB3	1:M:117:PRO:HD3	1.89	0.54
1:M:328:GLN:NE2	1:N:517:LEU:C	2.59	0.54
1:N:116:ALA:HB3	1:N:117:PRO:HD3	1.89	0.54
1:O:116:ALA:HB3	1:O:117:PRO:HD3	1.89	0.54
1:A:348:VAL:CG1	1:A:350:TRP:HE1	2.21	0.54
1:B:118:LEU:HD22	1:B:119:LEU:CD2	2.35	0.54
1:B:348:VAL:CG1	1:B:350:TRP:HE1	2.20	0.54
1:D:119:LEU:HD22	1:D:152:LEU:HD23	1.88	0.54
1:D:439:GLY:CA	1:D:467:GLY:HA3	2.28	0.54
1:E:139:VAL:HG11	1:F:162:ALA:O	2.07	0.54
1:E:328:GLN:HE21	1:F:517:LEU:H	1.53	0.54
1:F:207:VAL:HG12	1:F:208:ALA:N	2.22	0.54
1:G:369:SER:O	1:G:372:ILE:HG13	2.08	0.54
1:H:369:SER:O	1:H:372:ILE:HG13	2.08	0.54
1:J:394:ASN:HD21	1:K:361:THR:HB	1.73	0.54
1:K:116:ALA:HB3	1:K:117:PRO:HD3	1.89	0.54
1:N:115:LEU:HD11	1:N:159:VAL:CG2	2.37	0.54
1:N:301:ASN:HB2	1:O:431:ASN:ND2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:396:MET:O	1:N:396:MET:HG2	2.07	0.54
1:O:119:LEU:HD22	1:O:152:LEU:HD23	1.89	0.54
1:O:207:VAL:HG12	1:O:208:ALA:H	1.73	0.54
1:O:341:GLY:HA3	1:O:561:THR:O	2.08	0.54
1:B:402:GLN:HB3	1:B:405:TRP:CE2	2.41	0.54
1:B:493:VAL:O	1:B:493:VAL:HG22	2.08	0.54
1:C:442:VAL:CG2	1:C:507:PHE:HZ	2.20	0.54
1:E:118:LEU:HD22	1:E:119:LEU:CD2	2.33	0.54
1:E:369:SER:O	1:E:372:ILE:HG13	2.07	0.54
1:F:111:SER:HB3	1:G:198:THR:HA	1.88	0.54
1:F:461:ILE:HG12	1:G:445:GLN:CB	2.38	0.54
1:G:101:VAL:HG21	1:G:103:ARG:HH21	1.72	0.54
1:H:104:VAL:HG23	1:I:158:ARG:NE	2.22	0.54
1:H:172:LEU:HD21	1:H:215:VAL:HG23	1.89	0.54
1:H:201:LEU:HD12	1:I:189:LYS:HZ3	1.72	0.54
1:L:412:LEU:HD12	1:M:540:LYS:O	2.07	0.54
1:M:341:GLY:HA3	1:M:561:THR:O	2.08	0.54
1:A:118:LEU:HD22	1:A:119:LEU:CD2	2.35	0.54
1:A:136:PRO:HB3	1:B:199:SER:OG	2.06	0.54
1:A:341:GLY:HA3	1:A:561:THR:O	2.08	0.54
1:A:536:GLU:N	1:O:417:LYS:O	2.22	0.54
1:B:187:LEU:HG	1:B:190:ASP:HB2	1.88	0.54
1:C:436:PHE:CE2	1:C:438:VAL:HG23	2.42	0.54
1:D:187:LEU:HG	1:D:190:ASP:HB2	1.88	0.54
1:D:341:GLY:HA3	1:D:561:THR:O	2.08	0.54
1:E:341:GLY:HA3	1:E:561:THR:O	2.07	0.54
1:F:396:MET:O	1:F:396:MET:HG2	2.07	0.54
1:G:136:PRO:HD2	1:H:110:VAL:HG22	1.90	0.54
1:G:396:MET:HG2	1:G:396:MET:O	2.07	0.54
1:H:169:ILE:HD12	1:H:216:VAL:HG22	1.88	0.54
1:H:348:VAL:CG1	1:H:350:TRP:HE1	2.21	0.54
1:I:294:ILE:HG12	1:I:305:ILE:HG23	1.88	0.54
1:J:341:GLY:HA3	1:J:561:THR:O	2.07	0.54
1:J:396:MET:HG2	1:J:396:MET:O	2.07	0.54
1:J:436:PHE:CE2	1:J:438:VAL:HG23	2.43	0.54
1:J:442:VAL:CG2	1:J:507:PHE:HZ	2.20	0.54
1:L:348:VAL:CG1	1:L:350:TRP:HE1	2.20	0.54
1:M:207:VAL:HG12	1:M:208:ALA:H	1.73	0.54
1:M:516:VAL:HG11	1:M:526:LEU:CD2	2.37	0.54
1:N:341:GLY:HA3	1:N:561:THR:O	2.08	0.54
1:N:436:PHE:CE2	1:N:438:VAL:HG23	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:596:GLN:HB2	1:O:613:VAL:HG23	1.88	0.54
1:A:107:VAL:HB	1:A:112:VAL:CG1	2.34	0.54
1:A:115:LEU:HD13	1:A:155:VAL:HG12	1.90	0.54
1:A:396:MET:O	1:A:396:MET:HG2	2.08	0.54
1:C:187:LEU:HG	1:C:190:ASP:HB2	1.88	0.54
1:C:516:VAL:HG11	1:C:526:LEU:CD2	2.37	0.54
1:F:101:VAL:HG21	1:F:103:ARG:HH21	1.72	0.54
1:F:112:VAL:HB	1:F:140:LEU:HD12	1.88	0.54
1:H:141:LEU:HD12	1:H:141:LEU:O	2.08	0.54
1:H:169:ILE:HG13	1:I:234:LEU:CG	2.33	0.54
1:H:300:THR:CG2	1:I:324:ILE:HD11	2.38	0.54
1:H:394:ASN:HB3	1:H:412:LEU:HD22	1.90	0.54
1:I:297:ASP:OD2	1:J:322:LEU:HD11	2.07	0.54
1:J:394:ASN:HA	1:K:359:GLN:O	2.08	0.54
1:K:445:GLN:HE21	1:L:503:LEU:CD2	2.19	0.54
1:L:341:GLY:HA3	1:L:561:THR:O	2.08	0.54
1:M:155:VAL:O	1:M:159:VAL:HG23	2.07	0.54
1:M:187:LEU:HG	1:M:190:ASP:HB2	1.89	0.54
1:O:187:LEU:HG	1:O:190:ASP:HB2	1.89	0.54
1:A:187:LEU:HG	1:A:190:ASP:HB2	1.88	0.54
1:A:609:PRO:O	1:A:609:PRO:CD	2.53	0.54
1:C:116:ALA:HB3	1:C:117:PRO:HD3	1.89	0.54
1:C:493:VAL:HG22	1:C:493:VAL:O	2.08	0.54
1:D:118:LEU:HD22	1:D:119:LEU:CD2	2.34	0.54
1:D:155:VAL:O	1:D:159:VAL:HG23	2.08	0.54
1:D:394:ASN:OD1	1:E:361:THR:HB	2.07	0.54
1:D:396:MET:HG2	1:D:396:MET:O	2.07	0.54
1:G:216:VAL:HG11	1:H:183:LEU:HB3	1.90	0.54
1:H:346:LEU:O	1:H:557:THR:N	2.40	0.54
1:I:436:PHE:CE2	1:I:438:VAL:HG23	2.43	0.54
1:I:493:VAL:O	1:I:493:VAL:HG22	2.07	0.54
1:L:346:LEU:O	1:L:557:THR:N	2.40	0.54
1:L:591:LEU:O	1:L:595:GLN:HG3	2.08	0.54
1:M:396:MET:HG2	1:M:396:MET:O	2.08	0.54
1:N:119:LEU:HD22	1:N:152:LEU:HD23	1.89	0.54
1:O:340:ASP:CB	1:O:416:THR:O	2.54	0.54
1:B:116:ALA:HB3	1:B:117:PRO:HD3	1.89	0.54
1:B:396:MET:HG2	1:B:396:MET:O	2.08	0.54
1:C:253:LYS:HG2	1:D:475:GLN:OE1	2.08	0.54
1:C:341:GLY:HA3	1:C:561:THR:O	2.08	0.54
1:C:396:MET:O	1:C:396:MET:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:348:VAL:CG1	1:F:350:TRP:HE1	2.21	0.54
1:J:609:PRO:O	1:J:609:PRO:CD	2.56	0.54
1:K:104:VAL:HG22	1:K:141:LEU:HA	1.89	0.54
1:K:341:GLY:HA3	1:K:561:THR:O	2.08	0.54
1:K:369:SER:O	1:K:372:ILE:HG13	2.08	0.54
1:M:442:VAL:CG2	1:M:507:PHE:HZ	2.21	0.54
1:A:493:VAL:O	1:A:493:VAL:HG22	2.08	0.54
1:C:348:VAL:CG1	1:C:350:TRP:HE1	2.21	0.54
1:D:300:THR:HG23	1:E:324:ILE:HD11	1.89	0.54
1:D:369:SER:O	1:D:372:ILE:HG13	2.08	0.54
1:E:348:VAL:HG12	1:E:350:TRP:HE1	1.72	0.54
1:F:104:VAL:HG22	1:F:141:LEU:HA	1.89	0.54
1:F:111:SER:CB	1:G:198:THR:HA	2.38	0.54
1:G:482:VAL:HG21	1:G:572:PRO:CB	2.35	0.54
1:H:115:LEU:HD13	1:H:155:VAL:HG12	1.90	0.54
1:I:112:VAL:HB	1:I:140:LEU:HD12	1.89	0.54
1:I:115:LEU:HB3	1:I:119:LEU:HG	1.89	0.54
1:I:115:LEU:HD13	1:I:155:VAL:HG12	1.89	0.54
1:J:348:VAL:CG1	1:J:350:TRP:HE1	2.20	0.54
1:J:500:THR:CG2	1:J:506:THR:CG2	2.85	0.54
1:K:172:LEU:HD21	1:K:215:VAL:HG23	1.89	0.54
1:A:596:GLN:HB2	1:A:613:VAL:HG23	1.89	0.54
1:B:109:ASN:CB	1:B:163:GLY:O	2.56	0.54
1:B:115:LEU:HD13	1:B:155:VAL:HG12	1.90	0.54
1:C:369:SER:O	1:C:372:ILE:HG13	2.08	0.54
1:C:500:THR:CG2	1:C:506:THR:CG2	2.85	0.54
1:C:609:PRO:O	1:C:609:PRO:CD	2.56	0.54
1:F:369:SER:O	1:F:372:ILE:HG13	2.08	0.54
1:H:104:VAL:HG22	1:H:141:LEU:HA	1.89	0.54
1:H:461:ILE:HD11	1:I:445:GLN:O	2.08	0.54
1:J:115:LEU:HD11	1:J:159:VAL:CG2	2.37	0.54
1:J:207:VAL:HG12	1:J:208:ALA:H	1.73	0.54
1:J:253:LYS:HG2	1:K:475:GLN:OE1	2.08	0.54
1:K:119:LEU:HD22	1:K:152:LEU:HD23	1.89	0.54
1:K:396:MET:O	1:K:396:MET:HG2	2.08	0.54
1:O:396:MET:HG2	1:O:396:MET:O	2.08	0.54
1:A:586:SER:O	1:A:590:THR:HG23	2.08	0.53
1:C:155:VAL:O	1:C:159:VAL:HG23	2.08	0.53
1:E:588:LYS:HB3	1:F:567:MET:HE2	1.90	0.53
1:H:201:LEU:HD13	1:I:189:LYS:NZ	2.23	0.53
1:H:300:THR:CA	1:I:326:ARG:HD3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:329:VAL:HG23	1:H:476:ILE:HD11	1.88	0.53
1:H:436:PHE:CE2	1:H:438:VAL:HG23	2.43	0.53
1:J:116:ALA:HB3	1:J:117:PRO:HD3	1.90	0.53
1:J:340:ASP:CB	1:J:417:LYS:HD3	2.39	0.53
1:L:396:MET:HG2	1:L:396:MET:O	2.08	0.53
1:L:439:GLY:CA	1:L:467:GLY:HA3	2.29	0.53
1:M:340:ASP:CB	1:M:417:LYS:HD3	2.38	0.53
1:M:340:ASP:CB	1:M:416:THR:O	2.54	0.53
1:M:591:LEU:O	1:M:595:GLN:HG3	2.07	0.53
1:A:599:ALA:HB1	1:A:611:ARG:CD	2.38	0.53
1:B:436:PHE:CE2	1:B:438:VAL:HG23	2.43	0.53
1:D:348:VAL:CG1	1:D:350:TRP:HE1	2.21	0.53
1:F:341:GLY:HA3	1:F:561:THR:O	2.08	0.53
1:G:461:ILE:HG12	1:H:445:GLN:CB	2.33	0.53
1:G:488:GLN:O	1:G:511:THR:HA	2.08	0.53
1:H:205:LYS:CE	1:I:186:ASN:O	2.57	0.53
1:H:442:VAL:CG2	1:H:507:PHE:HZ	2.20	0.53
1:I:609:PRO:O	1:I:609:PRO:CD	2.55	0.53
1:J:136:PRO:HB3	1:K:199:SER:OG	2.07	0.53
1:K:398:ALA:HA	1:L:356:GLY:HA3	1.90	0.53
1:L:111:SER:HB3	1:M:198:THR:CA	2.30	0.53
1:L:369:SER:O	1:L:372:ILE:HG13	2.08	0.53
1:L:609:PRO:O	1:L:609:PRO:CD	2.56	0.53
1:N:104:VAL:HG22	1:N:141:LEU:HA	1.90	0.53
1:N:115:LEU:HD13	1:N:155:VAL:HG12	1.90	0.53
1:O:115:LEU:HD13	1:O:155:VAL:HG12	1.91	0.53
1:O:599:ALA:HB1	1:O:611:ARG:CD	2.39	0.53
1:B:136:PRO:HB3	1:C:199:SER:OG	2.07	0.53
1:B:207:VAL:HG12	1:B:208:ALA:H	1.73	0.53
1:B:249:LEU:HD13	1:B:257:MET:HG3	1.90	0.53
1:D:116:ALA:HB3	1:D:117:PRO:HD3	1.89	0.53
1:D:305:ILE:HG21	1:D:315:LEU:HD13	1.91	0.53
1:E:136:PRO:CB	1:F:199:SER:CB	2.86	0.53
1:F:394:ASN:OD1	1:G:360:PHE:HA	2.08	0.53
1:I:442:VAL:CG2	1:I:507:PHE:HZ	2.20	0.53
1:I:599:ALA:HB1	1:I:611:ARG:CD	2.37	0.53
1:K:133:HIS:NE2	1:L:114:GLU:O	2.41	0.53
1:K:340:ASP:CB	1:K:417:LYS:HD3	2.39	0.53
1:K:591:LEU:O	1:K:595:GLN:HG3	2.08	0.53
1:N:187:LEU:HG	1:N:190:ASP:HB2	1.89	0.53
1:A:109:ASN:CB	1:A:163:GLY:O	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:VAL:HB	1:A:140:LEU:HD12	1.89	0.53
1:B:591:LEU:O	1:B:595:GLN:HG3	2.08	0.53
1:C:305:ILE:HG21	1:C:315:LEU:HD13	1.90	0.53
1:C:346:LEU:O	1:C:557:THR:N	2.40	0.53
1:G:139:VAL:CG2	1:H:163:GLY:HA2	2.37	0.53
1:G:341:GLY:HA3	1:G:561:THR:O	2.08	0.53
1:I:346:LEU:O	1:I:557:THR:N	2.41	0.53
1:K:157:ARG:O	1:K:160:ASP:HB3	2.09	0.53
1:L:442:VAL:CG2	1:L:507:PHE:HZ	2.21	0.53
1:L:599:ALA:HB1	1:L:611:ARG:CD	2.39	0.53
1:M:119:LEU:HD22	1:M:152:LEU:HD23	1.90	0.53
1:M:436:PHE:CE2	1:M:438:VAL:HG23	2.43	0.53
1:M:493:VAL:HG22	1:M:493:VAL:O	2.08	0.53
1:N:398:ALA:HA	1:O:356:GLY:HA3	1.91	0.53
1:N:599:ALA:HB1	1:N:611:ARG:CD	2.39	0.53
1:O:436:PHE:CE2	1:O:438:VAL:HG23	2.44	0.53
1:O:591:LEU:O	1:O:595:GLN:HG3	2.08	0.53
1:B:599:ALA:HB1	1:B:611:ARG:CD	2.38	0.53
1:D:436:PHE:CE2	1:D:438:VAL:HG23	2.42	0.53
1:E:112:VAL:HB	1:E:140:LEU:HD12	1.90	0.53
1:E:340:ASP:CB	1:E:417:LYS:HD3	2.38	0.53
1:F:575:LEU:CD1	1:F:581:TYR:CD1	2.83	0.53
1:F:591:LEU:O	1:F:595:GLN:HG3	2.09	0.53
1:G:346:LEU:O	1:G:557:THR:N	2.40	0.53
1:G:439:GLY:CA	1:G:467:GLY:HA3	2.29	0.53
1:H:340:ASP:CB	1:H:417:LYS:HD3	2.39	0.53
1:H:427:VAL:O	1:I:516:VAL:HG12	2.09	0.53
1:H:591:LEU:O	1:H:595:GLN:HG3	2.08	0.53
1:I:482:VAL:HG21	1:I:572:PRO:CB	2.36	0.53
1:J:516:VAL:HG11	1:J:526:LEU:CD2	2.38	0.53
1:K:115:LEU:HD11	1:K:159:VAL:CG2	2.37	0.53
1:K:436:PHE:CE2	1:K:438:VAL:HG23	2.43	0.53
1:L:461:ILE:HG12	1:M:445:GLN:CB	2.36	0.53
1:O:104:VAL:HG22	1:O:141:LEU:HA	1.90	0.53
1:A:394:ASN:HA	1:B:359:GLN:O	2.09	0.53
1:B:341:GLY:HA3	1:B:561:THR:O	2.08	0.53
1:B:500:THR:CG2	1:B:506:THR:CG2	2.85	0.53
1:B:609:PRO:O	1:B:609:PRO:CD	2.55	0.53
1:C:109:ASN:CB	1:C:163:GLY:O	2.57	0.53
1:C:599:ALA:HB1	1:C:611:ARG:CD	2.38	0.53
1:D:591:LEU:O	1:D:595:GLN:HG3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:432:LYS:HD2	1:F:515:ALA:HB3	1.91	0.53
1:H:116:ALA:HB3	1:H:117:PRO:HD3	1.90	0.53
1:H:201:LEU:CB	1:I:189:LYS:NZ	2.72	0.53
1:J:115:LEU:HD13	1:J:155:VAL:HG12	1.90	0.53
1:K:439:GLY:CA	1:K:467:GLY:HA3	2.29	0.53
1:K:599:ALA:HB1	1:K:611:ARG:CD	2.39	0.53
1:L:493:VAL:O	1:L:493:VAL:HG22	2.08	0.53
1:M:211:ARG:HA	1:N:243:ASN:ND2	2.24	0.53
1:N:369:SER:O	1:N:372:ILE:HG13	2.08	0.53
1:B:369:SER:O	1:B:372:ILE:HG13	2.08	0.53
1:D:321:LYS:O	1:D:324:ILE:HG23	2.09	0.53
1:E:436:PHE:CE2	1:E:438:VAL:HG23	2.44	0.53
1:G:340:ASP:CB	1:G:417:LYS:HD3	2.39	0.53
1:H:341:GLY:HA3	1:H:561:THR:O	2.08	0.53
1:I:116:ALA:HB3	1:I:117:PRO:HD3	1.89	0.53
1:I:586:SER:O	1:I:590:THR:HG23	2.09	0.53
1:J:321:LYS:O	1:J:324:ILE:HG23	2.09	0.53
1:K:104:VAL:HG21	1:L:158:ARG:HD2	1.87	0.53
1:L:139:VAL:CG1	1:M:162:ALA:O	2.43	0.53
1:L:482:VAL:HG21	1:L:572:PRO:CB	2.36	0.53
1:M:141:LEU:HD22	1:N:159:VAL:HG22	1.90	0.53
1:N:591:LEU:O	1:N:595:GLN:HG3	2.08	0.53
1:O:369:SER:O	1:O:372:ILE:HG13	2.08	0.53
1:A:436:PHE:CE2	1:A:438:VAL:HG23	2.43	0.53
1:A:585:SER:HB2	1:B:524:VAL:HA	1.90	0.53
1:B:340:ASP:CB	1:B:417:LYS:HD3	2.39	0.53
1:D:209:ASP:HB2	1:E:183:LEU:HD11	1.90	0.53
1:D:394:ASN:ND2	1:E:361:THR:HG22	2.22	0.53
1:D:442:VAL:CG2	1:D:507:PHE:HZ	2.19	0.53
1:E:187:LEU:HG	1:E:190:ASP:HB2	1.90	0.53
1:G:436:PHE:CE2	1:G:438:VAL:HG23	2.44	0.53
1:J:488:GLN:O	1:J:511:THR:HA	2.09	0.53
1:J:591:LEU:O	1:J:595:GLN:HG3	2.08	0.53
1:K:155:VAL:O	1:K:159:VAL:HG23	2.09	0.53
1:K:586:SER:O	1:K:590:THR:HG23	2.09	0.53
1:O:112:VAL:HB	1:O:140:LEU:HD12	1.89	0.53
1:O:157:ARG:O	1:O:160:ASP:HB3	2.09	0.53
1:O:329:VAL:HG23	1:O:476:ILE:HD11	1.90	0.53
1:O:488:GLN:O	1:O:511:THR:HA	2.09	0.53
1:A:346:LEU:O	1:A:557:THR:N	2.40	0.53
1:B:157:ARG:O	1:B:160:ASP:HB3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:586:SER:O	1:B:590:THR:HG23	2.09	0.53
1:C:115:LEU:HD13	1:C:155:VAL:HG12	1.90	0.53
1:C:118:LEU:HD22	1:C:119:LEU:CD2	2.35	0.53
1:D:394:ASN:O	1:D:412:LEU:HD22	2.09	0.53
1:E:608:SER:N	1:E:609:PRO:CD	2.70	0.53
1:E:609:PRO:O	1:E:609:PRO:CD	2.54	0.53
1:F:437:ASN:HB3	1:G:511:THR:HB	1.91	0.53
1:G:591:LEU:O	1:G:595:GLN:HG3	2.09	0.53
1:H:383:THR:HB	1:I:372:ILE:CG2	2.38	0.53
1:I:396:MET:O	1:I:396:MET:HG2	2.08	0.53
1:J:301:ASN:HB2	1:K:431:ASN:ND2	2.24	0.53
1:J:461:ILE:HG12	1:K:445:GLN:CB	2.38	0.53
1:J:599:ALA:HB1	1:J:611:ARG:CD	2.38	0.53
1:K:136:PRO:HB2	1:L:202:LEU:HD22	1.91	0.53
1:L:157:ARG:O	1:L:160:ASP:HB3	2.09	0.53
1:M:394:ASN:HA	1:N:359:GLN:O	2.09	0.53
1:N:340:ASP:CB	1:N:417:LYS:HD3	2.39	0.53
1:A:207:VAL:HG12	1:A:208:ALA:H	1.73	0.53
1:C:586:SER:O	1:C:590:THR:HG23	2.09	0.53
1:D:109:ASN:CB	1:D:163:GLY:O	2.57	0.53
1:D:329:VAL:HG23	1:D:476:ILE:HD11	1.89	0.53
1:D:394:ASN:HD21	1:E:361:THR:CB	2.21	0.53
1:E:157:ARG:O	1:E:160:ASP:HB3	2.09	0.53
1:G:321:LYS:O	1:G:324:ILE:HG23	2.09	0.53
1:H:394:ASN:O	1:H:412:LEU:HB2	2.09	0.53
1:H:488:GLN:O	1:H:511:THR:HA	2.09	0.53
1:J:249:LEU:HD13	1:J:257:MET:HG3	1.91	0.53
1:J:348:VAL:HG12	1:J:350:TRP:HE1	1.74	0.53
1:K:328:GLN:HE22	1:L:517:LEU:C	2.06	0.53
1:M:328:GLN:HE21	1:N:517:LEU:N	2.07	0.53
1:M:488:GLN:O	1:M:511:THR:HA	2.09	0.53
1:A:369:SER:O	1:A:372:ILE:HG13	2.08	0.52
1:C:301:ASN:HB2	1:D:431:ASN:ND2	2.23	0.52
1:C:321:LYS:O	1:C:324:ILE:HG23	2.10	0.52
1:C:340:ASP:CB	1:C:417:LYS:HD3	2.39	0.52
1:D:104:VAL:HG22	1:D:141:LEU:HA	1.90	0.52
1:E:396:MET:O	1:E:396:MET:HG2	2.08	0.52
1:G:348:VAL:CG1	1:G:350:TRP:HE1	2.21	0.52
1:G:442:VAL:CG2	1:G:507:PHE:HZ	2.21	0.52
1:H:137:SER:HB3	1:I:163:GLY:HA3	1.91	0.52
1:H:205:LYS:HZ3	1:I:188:ASN:CG	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:340:ASP:CB	1:I:417:LYS:HD3	2.39	0.52
1:I:395:GLY:O	1:J:358:THR:CA	2.56	0.52
1:I:473:THR:CG2	1:I:485:THR:HB	2.39	0.52
1:J:328:GLN:HE21	1:K:517:LEU:N	2.04	0.52
1:J:586:SER:O	1:J:590:THR:HG23	2.09	0.52
1:K:115:LEU:HD13	1:K:155:VAL:HG12	1.90	0.52
1:K:340:ASP:CB	1:K:416:THR:O	2.54	0.52
1:K:346:LEU:O	1:K:557:THR:N	2.40	0.52
1:M:115:LEU:HD13	1:M:155:VAL:HG12	1.91	0.52
1:M:369:SER:O	1:M:372:ILE:HG13	2.08	0.52
1:M:592:PHE:CZ	1:N:336:VAL:HB	2.44	0.52
1:N:112:VAL:HB	1:N:140:LEU:HD12	1.89	0.52
1:N:329:VAL:HG23	1:N:476:ILE:HD11	1.89	0.52
1:O:321:LYS:O	1:O:324:ILE:HG23	2.09	0.52
1:O:394:ASN:O	1:O:412:LEU:HB2	2.09	0.52
1:O:609:PRO:O	1:O:609:PRO:CD	2.57	0.52
1:B:321:LYS:O	1:B:324:ILE:HG23	2.10	0.52
1:B:346:LEU:O	1:B:557:THR:N	2.40	0.52
1:B:461:ILE:HG12	1:C:445:GLN:CB	2.35	0.52
1:C:119:LEU:HD22	1:C:152:LEU:HD23	1.90	0.52
1:C:488:GLN:O	1:C:511:THR:HA	2.09	0.52
1:D:461:ILE:CD1	1:E:445:GLN:O	2.57	0.52
1:G:109:ASN:CB	1:G:163:GLY:O	2.57	0.52
1:G:394:ASN:HD21	1:H:361:THR:CG2	2.21	0.52
1:G:476:ILE:HG12	1:G:574:ILE:CD1	2.39	0.52
1:H:586:SER:O	1:H:590:THR:HG23	2.10	0.52
1:H:599:ALA:HB1	1:H:611:ARG:CD	2.39	0.52
1:I:258:VAL:HG22	1:I:303:LEU:CD1	2.38	0.52
1:I:591:LEU:O	1:I:595:GLN:HG3	2.09	0.52
1:L:119:LEU:HD22	1:L:152:LEU:HD23	1.90	0.52
1:L:209:ASP:HB2	1:M:183:LEU:HD21	1.90	0.52
1:L:249:LEU:HD13	1:L:257:MET:HG3	1.91	0.52
1:M:586:SER:O	1:M:590:THR:HG23	2.09	0.52
1:M:599:ALA:HB1	1:M:611:ARG:CD	2.38	0.52
1:A:104:VAL:CG2	1:B:158:ARG:HD2	2.39	0.52
1:A:356:GLY:HA3	1:O:398:ALA:HA	1.90	0.52
1:C:591:LEU:O	1:C:595:GLN:HG3	2.08	0.52
1:F:488:GLN:O	1:F:511:THR:HA	2.09	0.52
1:H:390:ALA:O	1:I:359:GLN:NE2	2.43	0.52
1:I:395:GLY:HA2	1:I:412:LEU:HD13	1.91	0.52
1:J:119:LEU:HD22	1:J:152:LEU:HD23	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:141:LEU:HD22	1:K:159:VAL:HG22	1.90	0.52
1:J:157:ARG:O	1:J:160:ASP:HB3	2.09	0.52
1:J:493:VAL:O	1:J:493:VAL:HG22	2.08	0.52
1:K:609:PRO:O	1:K:609:PRO:CD	2.57	0.52
1:L:112:VAL:HB	1:L:140:LEU:HD12	1.90	0.52
1:L:340:ASP:CB	1:L:417:LYS:HD3	2.39	0.52
1:L:488:GLN:O	1:L:511:THR:HA	2.09	0.52
1:N:157:ARG:O	1:N:160:ASP:HB3	2.09	0.52
1:N:216:VAL:HG21	1:O:183:LEU:HD22	1.91	0.52
1:A:104:VAL:HG22	1:A:141:LEU:HA	1.91	0.52
1:A:488:GLN:O	1:A:511:THR:HA	2.09	0.52
1:A:581:TYR:HE2	1:B:518:VAL:HG22	1.74	0.52
1:B:340:ASP:CB	1:B:416:THR:O	2.54	0.52
1:D:115:LEU:HD13	1:D:155:VAL:HG12	1.90	0.52
1:D:340:ASP:CB	1:D:416:THR:O	2.54	0.52
1:F:187:LEU:HG	1:F:190:ASP:HB2	1.90	0.52
1:F:461:ILE:CD1	1:G:445:GLN:O	2.55	0.52
1:G:136:PRO:CB	1:H:202:LEU:HD22	2.24	0.52
1:G:201:LEU:HB3	1:H:189:LYS:HZ3	1.74	0.52
1:H:253:LYS:HG2	1:I:475:GLN:OE1	2.10	0.52
1:H:305:ILE:HG21	1:H:315:LEU:HD13	1.91	0.52
1:I:348:VAL:CG1	1:I:350:TRP:HE1	2.23	0.52
1:K:348:VAL:HG12	1:K:350:TRP:HE1	1.75	0.52
1:K:488:GLN:O	1:K:511:THR:HA	2.09	0.52
1:L:115:LEU:HD13	1:L:155:VAL:HG12	1.90	0.52
1:M:461:ILE:HG12	1:N:445:GLN:CB	2.38	0.52
1:N:340:ASP:CB	1:N:416:THR:O	2.54	0.52
1:A:442:VAL:CG2	1:A:507:PHE:HZ	2.23	0.52
1:E:417:LYS:HB2	1:F:536:GLU:CB	2.33	0.52
1:G:608:SER:N	1:G:609:PRO:CD	2.72	0.52
1:I:111:SER:HB3	1:J:198:THR:OG1	2.08	0.52
1:I:341:GLY:HA3	1:I:561:THR:O	2.09	0.52
1:K:207:VAL:HG12	1:K:208:ALA:H	1.74	0.52
1:L:348:VAL:HG12	1:L:350:TRP:HE1	1.75	0.52
1:N:253:LYS:HG2	1:O:475:GLN:OE1	2.10	0.52
1:A:340:ASP:CB	1:A:417:LYS:HD3	2.39	0.52
1:A:394:ASN:OD1	1:B:360:PHE:HA	2.09	0.52
1:B:119:LEU:HD22	1:B:152:LEU:HD23	1.90	0.52
1:B:305:ILE:HG21	1:B:315:LEU:HD13	1.91	0.52
1:C:157:ARG:O	1:C:160:ASP:HB3	2.10	0.52
1:D:112:VAL:HB	1:D:140:LEU:HD12	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:157:ARG:O	1:D:160:ASP:HB3	2.09	0.52
1:D:340:ASP:CB	1:D:417:LYS:HD3	2.39	0.52
1:D:609:PRO:O	1:D:609:PRO:CD	2.58	0.52
1:F:476:ILE:HG12	1:F:574:ILE:CD1	2.39	0.52
1:G:157:ARG:O	1:G:160:ASP:HB3	2.09	0.52
1:M:395:GLY:O	1:N:358:THR:HA	2.09	0.52
1:M:468:THR:HG21	1:N:529:LEU:HD13	1.92	0.52
1:N:155:VAL:O	1:N:159:VAL:HG23	2.09	0.52
1:N:586:SER:O	1:N:590:THR:HG23	2.09	0.52
1:O:473:THR:CG2	1:O:485:THR:HB	2.40	0.52
1:A:207:VAL:CG1	1:B:186:ASN:HD22	2.22	0.52
1:B:112:VAL:HB	1:B:140:LEU:HD12	1.91	0.52
1:C:139:VAL:CG1	1:D:162:ALA:O	2.44	0.52
1:C:249:LEU:HD13	1:C:257:MET:HG3	1.91	0.52
1:D:460:THR:HA	1:E:446:THR:O	2.10	0.52
1:E:116:ALA:HB3	1:E:117:PRO:HD3	1.91	0.52
1:G:187:LEU:HG	1:G:190:ASP:HB2	1.90	0.52
1:K:169:ILE:HG21	1:L:234:LEU:HD21	1.92	0.52
1:L:436:PHE:CE2	1:L:438:VAL:HG23	2.44	0.52
1:M:157:ARG:O	1:M:160:ASP:HB3	2.09	0.52
1:M:348:VAL:HG12	1:M:350:TRP:HE1	1.74	0.52
1:N:473:THR:CG2	1:N:485:THR:HB	2.40	0.52
1:A:119:LEU:HD22	1:A:152:LEU:HD23	1.90	0.52
1:B:488:GLN:O	1:B:511:THR:HA	2.10	0.52
1:C:207:VAL:HG12	1:C:208:ALA:H	1.74	0.52
1:C:394:ASN:O	1:C:412:LEU:HB2	2.10	0.52
1:D:468:THR:HG21	1:E:529:LEU:HD13	1.91	0.52
1:D:473:THR:CG2	1:D:485:THR:HB	2.40	0.52
1:E:439:GLY:CA	1:E:467:GLY:HA3	2.29	0.52
1:G:108:ARG:HG3	1:H:220:GLU:OE1	2.10	0.52
1:G:442:VAL:HA	1:H:506:THR:HG22	1.92	0.52
1:H:476:ILE:HG12	1:H:574:ILE:CD1	2.39	0.52
1:J:358:THR:HG22	1:J:360:PHE:CZ	2.45	0.52
1:J:592:PHE:CZ	1:K:336:VAL:HB	2.45	0.52
1:K:301:ASN:HB2	1:L:431:ASN:ND2	2.24	0.52
1:K:394:ASN:O	1:K:412:LEU:HB2	2.10	0.52
1:L:340:ASP:CB	1:L:416:THR:O	2.55	0.52
1:L:592:PHE:CZ	1:M:336:VAL:HB	2.45	0.52
1:N:207:VAL:HG12	1:N:208:ALA:H	1.74	0.52
1:N:488:GLN:O	1:N:511:THR:HA	2.09	0.52
1:A:183:LEU:HD22	1:O:216:VAL:HG21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249:LEU:HD13	1:A:257:MET:HG3	1.91	0.52
1:C:592:PHE:CZ	1:D:336:VAL:HB	2.45	0.52
1:F:340:ASP:CB	1:F:417:LYS:HD3	2.38	0.52
1:I:592:PHE:CZ	1:J:336:VAL:HB	2.45	0.52
1:J:473:THR:CG2	1:J:485:THR:HB	2.40	0.52
1:K:321:LYS:O	1:K:324:ILE:HG23	2.10	0.52
1:L:586:SER:O	1:L:590:THR:HG23	2.09	0.52
1:M:109:ASN:CB	1:M:163:GLY:O	2.58	0.52
1:M:609:PRO:O	1:M:609:PRO:CD	2.56	0.52
1:N:321:LYS:O	1:N:324:ILE:HG23	2.09	0.52
1:N:394:ASN:O	1:N:412:LEU:HB2	2.10	0.52
1:N:609:PRO:O	1:N:609:PRO:CD	2.57	0.52
1:O:340:ASP:CB	1:O:417:LYS:HD3	2.39	0.52
1:A:473:THR:CG2	1:A:485:THR:HB	2.40	0.52
1:A:506:THR:HG22	1:O:442:VAL:HA	1.90	0.52
1:C:390:ALA:O	1:D:359:GLN:NE2	2.43	0.52
1:D:608:SER:N	1:D:609:PRO:CD	2.73	0.52
1:F:177:ALA:O	1:F:180:MET:HB2	2.10	0.52
1:F:211:ARG:NH1	1:G:176:SER:HB2	2.25	0.52
1:H:180:MET:O	1:H:184:VAL:HG23	2.10	0.52
1:I:340:ASP:CB	1:I:416:THR:O	2.55	0.52
1:J:305:ILE:HG21	1:J:315:LEU:HD13	1.91	0.52
1:J:398:ALA:HA	1:K:356:GLY:HA3	1.92	0.52
1:M:249:LEU:HD13	1:M:257:MET:HG3	1.92	0.52
1:O:476:ILE:HG12	1:O:574:ILE:CD1	2.40	0.52
1:A:321:LYS:O	1:A:324:ILE:HG23	2.10	0.51
1:A:395:GLY:HA2	1:A:412:LEU:HD13	1.92	0.51
1:A:534:THR:O	1:O:418:SER:HA	2.10	0.51
1:A:608:SER:N	1:A:609:PRO:CD	2.72	0.51
1:B:390:ALA:O	1:C:359:GLN:NE2	2.38	0.51
1:B:395:GLY:HA2	1:B:412:LEU:HD13	1.91	0.51
1:E:294:ILE:CG1	1:E:305:ILE:HG23	2.40	0.51
1:E:394:ASN:O	1:E:412:LEU:HB2	2.10	0.51
1:F:141:LEU:O	1:F:141:LEU:HD12	2.10	0.51
1:F:305:ILE:HG21	1:F:315:LEU:HD13	1.91	0.51
1:G:177:ALA:O	1:G:180:MET:HB2	2.10	0.51
1:G:348:VAL:HG12	1:G:350:TRP:HE1	1.75	0.51
1:H:340:ASP:CB	1:H:416:THR:O	2.54	0.51
1:I:151:ARG:HA	1:I:154:GLU:HB2	1.90	0.51
1:K:109:ASN:CB	1:K:163:GLY:O	2.57	0.51
1:M:473:THR:CG2	1:M:485:THR:HB	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:476:ILE:HG12	1:M:574:ILE:CD1	2.40	0.51
1:N:348:VAL:HG12	1:N:350:TRP:HE1	1.75	0.51
1:A:360:PHE:C	1:O:394:ASN:OD1	2.49	0.51
1:A:394:ASN:O	1:A:412:LEU:HB2	2.11	0.51
1:C:329:VAL:HG23	1:C:476:ILE:HD11	1.89	0.51
1:F:157:ARG:O	1:F:160:ASP:HB3	2.10	0.51
1:F:586:SER:O	1:F:590:THR:HG23	2.10	0.51
1:G:207:VAL:HG12	1:G:208:ALA:H	1.75	0.51
1:H:609:PRO:O	1:H:609:PRO:CD	2.58	0.51
1:K:608:SER:N	1:K:609:PRO:CD	2.73	0.51
1:L:109:ASN:CB	1:L:163:GLY:O	2.58	0.51
1:L:136:PRO:HB3	1:M:199:SER:OG	2.09	0.51
1:L:476:ILE:HG12	1:L:574:ILE:CD1	2.40	0.51
1:M:412:LEU:HD12	1:N:540:LYS:O	2.09	0.51
1:O:395:GLY:HA2	1:O:412:LEU:HD13	1.91	0.51
1:A:340:ASP:CB	1:A:416:THR:O	2.54	0.51
1:D:493:VAL:O	1:D:493:VAL:HG22	2.11	0.51
1:D:586:SER:O	1:D:590:THR:HG23	2.10	0.51
1:E:321:LYS:O	1:E:324:ILE:HG23	2.11	0.51
1:E:473:THR:CG2	1:E:485:THR:HB	2.39	0.51
1:F:439:GLY:CA	1:F:467:GLY:HA3	2.28	0.51
1:G:111:SER:HB3	1:H:198:THR:CG2	2.40	0.51
1:G:294:ILE:CG2	1:G:303:LEU:HD11	2.41	0.51
1:G:328:GLN:HE21	1:H:517:LEU:N	2.06	0.51
1:I:249:LEU:HD21	1:I:319:VAL:HG13	1.91	0.51
1:I:261:LEU:HD12	1:I:303:LEU:CD2	2.37	0.51
1:J:244:THR:HG23	1:J:305:ILE:O	2.10	0.51
1:J:340:ASP:CB	1:J:416:THR:O	2.54	0.51
1:K:177:ALA:O	1:K:180:MET:HB2	2.11	0.51
1:L:104:VAL:HG22	1:L:141:LEU:HA	1.92	0.51
1:O:346:LEU:O	1:O:557:THR:N	2.40	0.51
1:O:348:VAL:HG12	1:O:350:TRP:HE1	1.75	0.51
1:O:586:SER:O	1:O:590:THR:HG23	2.09	0.51
1:C:348:VAL:HG12	1:C:350:TRP:HE1	1.75	0.51
1:D:348:VAL:HG12	1:D:350:TRP:HE1	1.75	0.51
1:D:394:ASN:HD21	1:E:361:THR:HB	1.75	0.51
1:D:488:GLN:O	1:D:511:THR:HA	2.09	0.51
1:E:299:THR:HB	1:F:326:ARG:CZ	2.39	0.51
1:E:476:ILE:HG12	1:E:574:ILE:CD1	2.40	0.51
1:F:109:ASN:CB	1:F:163:GLY:O	2.59	0.51
1:F:482:VAL:HG21	1:F:572:PRO:CB	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:167:VAL:CG2	1:H:230:MET:HE1	2.38	0.51
1:G:293:ALA:HB3	1:G:306:THR:HG23	1.93	0.51
1:H:300:THR:HG21	1:I:324:ILE:CG1	2.41	0.51
1:H:321:LYS:O	1:H:324:ILE:HG23	2.09	0.51
1:I:346:LEU:C	1:I:346:LEU:HD12	2.30	0.51
1:K:476:ILE:HG12	1:K:574:ILE:CD1	2.40	0.51
1:M:329:VAL:HG23	1:M:476:ILE:HD11	1.89	0.51
1:N:177:ALA:O	1:N:180:MET:HB2	2.11	0.51
1:N:468:THR:HG21	1:O:529:LEU:HD13	1.93	0.51
1:A:186:ASN:HB2	1:O:207:VAL:HG21	1.92	0.51
1:A:294:ILE:CG1	1:A:305:ILE:HG23	2.41	0.51
1:C:244:THR:HG23	1:C:305:ILE:O	2.10	0.51
1:C:294:ILE:CG1	1:C:305:ILE:HG23	2.41	0.51
1:C:340:ASP:CB	1:C:416:THR:O	2.54	0.51
1:E:115:LEU:HD13	1:E:155:VAL:HG12	1.92	0.51
1:F:116:ALA:HB3	1:F:117:PRO:HD3	1.92	0.51
1:F:293:ALA:HB3	1:F:306:THR:HG23	1.93	0.51
1:F:442:VAL:CG2	1:F:507:PHE:HZ	2.21	0.51
1:F:608:SER:N	1:F:609:PRO:CD	2.72	0.51
1:G:205:LYS:NZ	1:H:188:ASN:ND2	2.58	0.51
1:G:298:GLU:O	1:H:431:ASN:HB3	2.11	0.51
1:I:488:GLN:O	1:I:511:THR:HA	2.09	0.51
1:J:394:ASN:O	1:J:412:LEU:HB2	2.10	0.51
1:J:608:SER:N	1:J:609:PRO:CD	2.72	0.51
1:K:493:VAL:HG22	1:K:493:VAL:O	2.10	0.51
1:L:321:LYS:O	1:L:324:ILE:HG23	2.10	0.51
1:M:112:VAL:HB	1:M:140:LEU:HD12	1.92	0.51
1:M:136:PRO:HB3	1:N:199:SER:OG	2.11	0.51
1:N:109:ASN:CB	1:N:163:GLY:O	2.58	0.51
1:A:216:VAL:HG21	1:B:183:LEU:HB3	1.93	0.51
1:A:517:LEU:N	1:O:328:GLN:NE2	2.56	0.51
1:E:177:ALA:O	1:E:180:MET:HB2	2.11	0.51
1:E:187:LEU:HG	1:E:187:LEU:O	2.11	0.51
1:F:348:VAL:HG12	1:F:350:TRP:HE1	1.75	0.51
1:G:116:ALA:HB3	1:G:117:PRO:HD3	1.92	0.51
1:G:187:LEU:HG	1:G:187:LEU:O	2.10	0.51
1:G:586:SER:O	1:G:590:THR:HG23	2.10	0.51
1:H:482:VAL:HG21	1:H:572:PRO:CB	2.35	0.51
1:I:104:VAL:HG22	1:I:141:LEU:HA	1.92	0.51
1:I:211:ARG:CD	1:J:179:GLU:HB2	2.39	0.51
1:J:476:ILE:HG12	1:J:574:ILE:CD1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:482:VAL:HG21	1:J:572:PRO:CB	2.36	0.51
1:J:510:ARG:HD2	1:J:566:LEU:HD21	1.92	0.51
1:M:294:ILE:CG1	1:M:305:ILE:HG23	2.41	0.51
1:N:493:VAL:O	1:N:493:VAL:HG22	2.10	0.51
1:A:110:VAL:CG1	1:O:136:PRO:HD2	2.38	0.51
1:A:305:ILE:HG21	1:A:315:LEU:HD13	1.91	0.51
1:B:244:THR:HG23	1:B:305:ILE:O	2.10	0.51
1:B:294:ILE:CG1	1:B:305:ILE:HG23	2.41	0.51
1:B:473:THR:CG2	1:B:485:THR:HB	2.40	0.51
1:C:112:VAL:HB	1:C:140:LEU:HD12	1.91	0.51
1:D:476:ILE:HG12	1:D:574:ILE:CD1	2.40	0.51
1:D:599:ALA:HB1	1:D:611:ARG:CD	2.39	0.51
1:E:305:ILE:HG21	1:E:315:LEU:HD13	1.93	0.51
1:F:599:ALA:HB1	1:F:611:ARG:CD	2.40	0.51
1:G:418:SER:HA	1:H:534:THR:O	2.11	0.51
1:G:473:THR:CG2	1:G:485:THR:HB	2.40	0.51
1:I:174:TYR:CE1	1:I:237:GLU:HB3	2.45	0.51
1:I:394:ASN:ND2	1:J:361:THR:HG22	2.26	0.51
1:I:608:SER:N	1:I:609:PRO:CD	2.73	0.51
1:J:109:ASN:CB	1:J:163:GLY:O	2.57	0.51
1:L:473:THR:CG2	1:L:485:THR:HB	2.40	0.51
1:L:608:SER:N	1:L:609:PRO:CD	2.72	0.51
1:M:608:SER:N	1:M:609:PRO:CD	2.72	0.51
1:N:305:ILE:HG21	1:N:315:LEU:HD13	1.91	0.51
1:N:394:ASN:HD21	1:O:361:THR:HB	1.76	0.51
1:O:294:ILE:CG1	1:O:305:ILE:HG23	2.40	0.51
1:A:157:ARG:O	1:A:160:ASP:HB3	2.10	0.51
1:C:468:THR:HG21	1:D:529:LEU:HD13	1.92	0.51
1:D:207:VAL:HG12	1:D:208:ALA:H	1.74	0.51
1:E:294:ILE:CG2	1:E:303:LEU:HD11	2.41	0.51
1:F:328:GLN:HE21	1:G:517:LEU:N	2.07	0.51
1:H:201:LEU:HB2	1:I:189:LYS:CE	2.40	0.51
1:I:179:GLU:O	1:I:183:LEU:HG	2.10	0.51
1:I:321:LYS:O	1:I:324:ILE:HG23	2.10	0.51
1:I:476:ILE:HG12	1:I:574:ILE:CD1	2.40	0.51
1:K:510:ARG:HD2	1:K:566:LEU:HD21	1.93	0.51
1:L:510:ARG:HD2	1:L:566:LEU:HD21	1.92	0.51
1:M:305:ILE:HG21	1:M:315:LEU:HD13	1.92	0.51
1:M:321:LYS:O	1:M:324:ILE:HG23	2.10	0.51
1:M:395:GLY:HA2	1:M:412:LEU:HD13	1.92	0.51
1:N:104:VAL:HG11	1:O:162:ALA:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:123:ASN:CG	1:N:130:ASN:HB2	2.32	0.51
1:N:294:ILE:CG1	1:N:305:ILE:HG23	2.40	0.51
1:O:109:ASN:CB	1:O:163:GLY:O	2.58	0.51
1:O:493:VAL:O	1:O:493:VAL:HG22	2.11	0.51
1:A:348:VAL:HG12	1:A:350:TRP:HE1	1.75	0.51
1:B:394:ASN:O	1:B:412:LEU:HB2	2.11	0.51
1:C:108:ARG:CD	1:D:220:GLU:OE1	2.58	0.51
1:D:177:ALA:O	1:D:180:MET:HB2	2.10	0.51
1:D:244:THR:N	1:E:314:GLU:OE2	2.43	0.51
1:E:216:VAL:HG21	1:F:183:LEU:HD22	1.93	0.51
1:F:294:ILE:CG1	1:F:305:ILE:HG23	2.40	0.51
1:F:346:LEU:O	1:F:557:THR:N	2.40	0.51
1:J:294:ILE:CG1	1:J:305:ILE:HG23	2.40	0.51
1:K:305:ILE:HG21	1:K:315:LEU:HD13	1.92	0.51
1:M:394:ASN:O	1:M:412:LEU:HB2	2.11	0.51
1:A:177:ALA:O	1:A:180:MET:HB2	2.10	0.51
1:A:211:ARG:NH1	1:B:176:SER:CB	2.74	0.51
1:A:510:ARG:HD2	1:A:566:LEU:HD21	1.92	0.51
1:B:209:ASP:HB2	1:C:183:LEU:HD21	1.92	0.51
1:B:510:ARG:HD2	1:B:566:LEU:HD21	1.91	0.51
1:C:395:GLY:HA2	1:C:412:LEU:HD13	1.92	0.51
1:E:394:ASN:HA	1:F:359:GLN:O	2.11	0.51
1:E:395:GLY:HA2	1:E:412:LEU:HD13	1.92	0.51
1:E:426:ILE:HD12	1:F:527:GLY:HA3	1.93	0.51
1:E:599:ALA:HB1	1:E:611:ARG:CD	2.41	0.51
1:F:187:LEU:HG	1:F:187:LEU:O	2.11	0.51
1:F:473:THR:CG2	1:F:485:THR:HB	2.41	0.51
1:H:104:VAL:CG2	1:I:158:ARG:NH1	2.73	0.51
1:H:133:HIS:HD2	1:I:115:LEU:HD21	1.62	0.51
1:H:210:GLU:O	1:I:243:ASN:ND2	2.44	0.51
1:J:112:VAL:HB	1:J:140:LEU:HD12	1.92	0.51
1:J:138:ASN:ND2	1:K:198:THR:O	2.41	0.51
1:J:395:GLY:HA2	1:J:412:LEU:HD13	1.92	0.51
1:K:169:ILE:HD12	1:K:216:VAL:HG22	1.93	0.51
1:K:244:THR:HG23	1:K:305:ILE:O	2.10	0.51
1:K:294:ILE:CG1	1:K:305:ILE:HG23	2.41	0.51
1:M:104:VAL:HG22	1:M:141:LEU:HA	1.93	0.51
1:N:476:ILE:HG12	1:N:574:ILE:CD1	2.40	0.51
1:A:476:ILE:HG12	1:A:574:ILE:CD1	2.41	0.50
1:B:329:VAL:HG23	1:B:476:ILE:HD11	1.89	0.50
1:B:412:LEU:HD12	1:C:540:LYS:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:461:ILE:CG1	1:C:445:GLN:HB2	2.37	0.50
1:D:395:GLY:HA2	1:D:412:LEU:HD13	1.92	0.50
1:H:108:ARG:HD2	1:I:223:ALA:HB2	1.92	0.50
1:H:177:ALA:O	1:H:180:MET:HB2	2.11	0.50
1:I:174:TYR:CD1	1:I:237:GLU:HB3	2.46	0.50
1:I:331:VAL:HG21	1:I:472:LEU:HD21	1.93	0.50
1:J:102:THR:OG1	1:J:142:ILE:O	2.25	0.50
1:L:177:ALA:O	1:L:180:MET:HB2	2.11	0.50
1:L:244:THR:HG23	1:L:305:ILE:O	2.10	0.50
1:L:394:ASN:O	1:L:412:LEU:HB2	2.11	0.50
1:L:461:ILE:CG1	1:M:445:GLN:HB2	2.39	0.50
1:A:139:VAL:HG11	1:B:163:GLY:HA2	1.92	0.50
1:A:612:GLN:HG3	1:C:532:GLU:OE1	2.12	0.50
1:B:301:ASN:HB2	1:C:431:ASN:ND2	2.26	0.50
1:C:473:THR:CG2	1:C:485:THR:HB	2.40	0.50
1:D:244:THR:HG23	1:D:305:ILE:O	2.11	0.50
1:J:187:LEU:HG	1:J:187:LEU:O	2.10	0.50
1:J:468:THR:HG21	1:K:529:LEU:HD13	1.93	0.50
1:K:169:ILE:HG21	1:L:234:LEU:CD2	2.41	0.50
1:K:249:LEU:HD13	1:K:257:MET:HG3	1.93	0.50
1:M:244:THR:HG23	1:M:305:ILE:O	2.10	0.50
1:O:244:THR:HG23	1:O:305:ILE:O	2.10	0.50
1:A:135:ASP:HB3	1:B:110:VAL:HG21	1.94	0.50
1:A:187:LEU:HG	1:A:187:LEU:O	2.12	0.50
1:A:244:THR:HG23	1:A:305:ILE:O	2.10	0.50
1:D:294:ILE:CG1	1:D:305:ILE:HG23	2.41	0.50
1:G:169:ILE:CD1	1:H:234:LEU:HD21	2.41	0.50
1:G:599:ALA:HB1	1:G:611:ARG:CD	2.40	0.50
1:H:109:ASN:CG	1:H:163:GLY:O	2.50	0.50
1:H:187:LEU:HG	1:H:187:LEU:O	2.11	0.50
1:H:207:VAL:CG1	1:I:183:LEU:CD2	2.87	0.50
1:I:187:LEU:HG	1:I:187:LEU:O	2.11	0.50
1:I:592:PHE:CE2	1:J:336:VAL:CG2	2.94	0.50
1:K:473:THR:CG2	1:K:485:THR:HB	2.40	0.50
1:L:305:ILE:HG21	1:L:315:LEU:HD13	1.92	0.50
1:M:482:VAL:HG21	1:M:572:PRO:CB	2.36	0.50
1:O:177:ALA:O	1:O:180:MET:HB2	2.11	0.50
1:O:582:SER:O	1:O:586:SER:N	2.40	0.50
1:A:482:VAL:HG21	1:A:572:PRO:CB	2.35	0.50
1:A:496:GLN:HA	1:B:501:ASP:OD2	2.12	0.50
1:B:111:SER:HB3	1:C:198:THR:HG23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:348:VAL:HG12	1:B:350:TRP:HE1	1.75	0.50
1:B:608:SER:N	1:B:609:PRO:CD	2.72	0.50
1:E:109:ASN:CB	1:E:163:GLY:O	2.59	0.50
1:E:299:THR:O	1:F:431:ASN:HB2	2.11	0.50
1:F:582:SER:O	1:F:586:SER:N	2.40	0.50
1:G:294:ILE:CG1	1:G:305:ILE:HG23	2.40	0.50
1:I:258:VAL:CG2	1:I:296:ALA:CB	2.88	0.50
1:J:390:ALA:O	1:K:359:GLN:NE2	2.43	0.50
1:L:395:GLY:HA2	1:L:412:LEU:HD13	1.92	0.50
1:N:395:GLY:HA2	1:N:412:LEU:HD13	1.92	0.50
1:O:123:ASN:CG	1:O:130:ASN:HB2	2.32	0.50
1:O:169:ILE:HD12	1:O:216:VAL:HG22	1.93	0.50
1:A:328:GLN:NE2	1:B:517:LEU:CA	2.75	0.50
1:B:476:ILE:HG12	1:B:574:ILE:CD1	2.41	0.50
1:C:177:ALA:O	1:C:180:MET:HB2	2.11	0.50
1:C:328:GLN:HE22	1:D:517:LEU:C	2.04	0.50
1:C:476:ILE:HG12	1:C:574:ILE:CD1	2.40	0.50
1:F:155:VAL:O	1:F:159:VAL:HG23	2.12	0.50
1:F:205:LYS:HZ3	1:G:188:ASN:HB2	1.77	0.50
1:H:473:THR:CG2	1:H:485:THR:HB	2.41	0.50
1:I:157:ARG:O	1:I:160:ASP:HB3	2.11	0.50
1:I:394:ASN:O	1:I:412:LEU:HB2	2.11	0.50
1:L:104:VAL:CG2	1:M:158:ARG:HD2	2.41	0.50
1:L:187:LEU:HG	1:L:187:LEU:O	2.11	0.50
1:N:244:THR:HG23	1:N:305:ILE:O	2.11	0.50
1:O:305:ILE:HG21	1:O:315:LEU:HD13	1.92	0.50
1:A:189:LYS:HE2	1:O:202:LEU:HD12	1.93	0.50
1:A:395:GLY:O	1:B:358:THR:HA	2.11	0.50
1:A:534:THR:HG21	1:N:610:ASP:O	2.10	0.50
1:F:294:ILE:CG2	1:F:303:LEU:HD11	2.42	0.50
1:H:202:LEU:CD1	1:I:189:LYS:CE	2.89	0.50
1:H:493:VAL:HG22	1:H:493:VAL:O	2.10	0.50
1:J:351:ALA:HA	1:J:357:GLY:HA2	1.93	0.50
1:K:104:VAL:HG11	1:L:162:ALA:HB1	1.93	0.50
1:M:437:ASN:HB3	1:N:511:THR:HB	1.93	0.50
1:A:445:GLN:O	1:O:461:ILE:HD11	2.11	0.50
1:B:136:PRO:HB3	1:C:199:SER:CB	2.42	0.50
1:B:187:LEU:HG	1:B:187:LEU:O	2.12	0.50
1:B:394:ASN:OD1	1:C:360:PHE:HA	2.12	0.50
1:C:437:ASN:HB3	1:D:511:THR:HB	1.92	0.50
1:D:328:GLN:HE21	1:E:517:LEU:HB3	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:394:ASN:HB3	1:D:412:LEU:CD2	2.41	0.50
1:F:115:LEU:HD11	1:F:159:VAL:CG2	2.42	0.50
1:G:305:ILE:HG21	1:G:315:LEU:HD13	1.92	0.50
1:H:123:ASN:CG	1:H:130:ASN:HB2	2.31	0.50
1:I:147:ALA:O	1:I:150:ASN:HB2	2.11	0.50
1:I:348:VAL:HG12	1:I:350:TRP:HE1	1.77	0.50
1:I:445:GLN:HE21	1:J:503:LEU:CD2	2.24	0.50
1:M:187:LEU:HG	1:M:187:LEU:O	2.12	0.50
1:N:139:VAL:HG21	1:O:163:GLY:N	2.27	0.50
1:N:169:ILE:HD12	1:N:216:VAL:HG22	1.94	0.50
1:O:187:LEU:HG	1:O:187:LEU:O	2.11	0.50
1:B:123:ASN:CG	1:B:130:ASN:HB2	2.32	0.50
1:E:211:ARG:NH1	1:F:176:SER:CB	2.75	0.50
1:G:109:ASN:CG	1:G:163:GLY:O	2.51	0.50
1:G:424:PRO:HB3	1:H:529:LEU:HD13	1.94	0.50
1:I:510:ARG:HD2	1:I:566:LEU:HD21	1.93	0.50
1:J:177:ALA:O	1:J:180:MET:HB2	2.12	0.50
1:L:294:ILE:CG1	1:L:305:ILE:HG23	2.41	0.50
1:M:177:ALA:O	1:M:180:MET:HB2	2.11	0.50
1:M:510:ARG:HD2	1:M:566:LEU:HD21	1.93	0.50
1:B:177:ALA:O	1:B:180:MET:HB2	2.11	0.50
1:D:343:GLY:N	1:D:414:THR:O	2.45	0.50
1:F:438:VAL:HB	1:G:529:LEU:CD2	2.42	0.50
1:F:609:PRO:O	1:F:609:PRO:CD	2.60	0.50
1:G:137:SER:HA	1:H:202:LEU:HB3	1.94	0.50
1:I:244:THR:HG23	1:I:305:ILE:O	2.12	0.50
1:L:394:ASN:OD1	1:M:360:PHE:HA	2.12	0.50
1:O:249:LEU:HD13	1:O:257:MET:HG3	1.93	0.50
1:A:169:ILE:HD12	1:A:216:VAL:HG22	1.94	0.49
1:C:343:GLY:N	1:C:414:THR:O	2.45	0.49
1:C:582:SER:O	1:C:586:SER:N	2.40	0.49
1:H:202:LEU:HD11	1:I:189:LYS:HD2	1.94	0.49
1:I:326:ARG:HD2	1:I:430:ASP:OD1	2.12	0.49
1:J:155:VAL:O	1:J:159:VAL:HG23	2.12	0.49
1:J:329:VAL:HG23	1:J:476:ILE:HD11	1.91	0.49
1:J:412:LEU:HD12	1:K:540:LYS:O	2.12	0.49
1:N:187:LEU:HG	1:N:187:LEU:O	2.12	0.49
1:O:482:VAL:HG21	1:O:572:PRO:CB	2.36	0.49
1:A:592:PHE:CE2	1:B:336:VAL:HG21	2.47	0.49
1:C:136:PRO:HB3	1:D:199:SER:OG	2.12	0.49
1:D:249:LEU:HD13	1:D:257:MET:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:300:THR:CG2	1:F:324:ILE:HD11	2.41	0.49
1:E:476:ILE:HG12	1:E:574:ILE:HD11	1.94	0.49
1:G:395:GLY:HA2	1:G:412:LEU:HD13	1.94	0.49
1:H:104:VAL:HG23	1:I:158:ARG:NH1	2.26	0.49
1:H:258:VAL:HG22	1:H:303:LEU:HD11	1.94	0.49
1:I:350:TRP:HZ2	1:I:553:LEU:HB3	1.77	0.49
1:M:123:ASN:CG	1:M:130:ASN:HB2	2.32	0.49
1:M:390:ALA:O	1:N:359:GLN:NE2	2.43	0.49
1:N:437:ASN:HB3	1:O:511:THR:HB	1.94	0.49
1:A:343:GLY:N	1:A:414:THR:O	2.45	0.49
1:E:603:GLU:CG	1:E:611:ARG:HD2	2.42	0.49
1:F:343:GLY:N	1:F:414:THR:O	2.45	0.49
1:H:108:ARG:HD3	1:I:222:LYS:CB	2.42	0.49
1:H:294:ILE:CG1	1:H:305:ILE:HG23	2.40	0.49
1:H:358:THR:HG22	1:H:360:PHE:CZ	2.47	0.49
1:I:472:LEU:HD21	1:I:484:LEU:HD22	1.94	0.49
1:I:582:SER:O	1:I:586:SER:N	2.40	0.49
1:K:136:PRO:HD2	1:L:110:VAL:CG1	2.40	0.49
1:K:437:ASN:HB3	1:L:511:THR:HB	1.94	0.49
1:L:118:LEU:HD13	1:L:155:VAL:HG11	1.93	0.49
1:L:169:ILE:HD12	1:L:216:VAL:HG22	1.95	0.49
1:L:258:VAL:HG22	1:L:303:LEU:HD11	1.94	0.49
1:L:437:ASN:HB3	1:M:511:THR:HB	1.94	0.49
1:M:258:VAL:HG22	1:M:303:LEU:HD11	1.94	0.49
1:B:111:SER:HB3	1:C:198:THR:CA	2.35	0.49
1:B:343:GLY:N	1:B:414:THR:O	2.46	0.49
1:B:482:VAL:HG21	1:B:572:PRO:CB	2.36	0.49
1:B:582:SER:O	1:B:586:SER:N	2.40	0.49
1:C:394:ASN:HD21	1:D:361:THR:HB	1.77	0.49
1:D:187:LEU:HG	1:D:187:LEU:O	2.12	0.49
1:D:211:ARG:NH1	1:E:176:SER:HB2	2.28	0.49
1:D:394:ASN:OD1	1:E:360:PHE:C	2.51	0.49
1:E:328:GLN:NE2	1:F:517:LEU:H	2.11	0.49
1:E:340:ASP:CB	1:E:416:THR:O	2.56	0.49
1:E:444:VAL:HG21	1:E:464:LYS:HE3	1.94	0.49
1:F:394:ASN:HA	1:G:359:GLN:O	2.13	0.49
1:J:118:LEU:HD13	1:J:155:VAL:HG11	1.94	0.49
1:L:328:GLN:HE22	1:M:517:LEU:C	2.06	0.49
1:L:468:THR:HG21	1:M:529:LEU:HD13	1.95	0.49
1:M:118:LEU:HD13	1:M:155:VAL:HG11	1.93	0.49
1:B:104:VAL:HG22	1:B:141:LEU:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:394:ASN:HA	1:D:359:GLN:O	2.12	0.49
1:D:510:ARG:HD2	1:D:566:LEU:HD21	1.92	0.49
1:F:244:THR:HG23	1:F:305:ILE:O	2.12	0.49
1:F:395:GLY:HA2	1:F:412:LEU:HD13	1.94	0.49
1:F:424:PRO:HA	1:G:528:GLY:O	2.12	0.49
1:G:211:ARG:NH1	1:H:176:SER:CB	2.75	0.49
1:G:258:VAL:HG22	1:G:303:LEU:HD11	1.94	0.49
1:H:133:HIS:CG	1:H:134:TYR:H	2.31	0.49
1:I:294:ILE:CG1	1:I:305:ILE:HG23	2.42	0.49
1:I:326:ARG:HB2	1:I:429:MET:CE	2.42	0.49
1:J:328:GLN:NE2	1:K:517:LEU:C	2.61	0.49
1:K:187:LEU:HG	1:K:187:LEU:O	2.12	0.49
1:B:253:LYS:HG2	1:C:475:GLN:OE1	2.12	0.49
1:E:141:LEU:HD12	1:E:141:LEU:O	2.13	0.49
1:G:151:ARG:HA	1:G:154:GLU:HB2	1.94	0.49
1:G:244:THR:HG23	1:G:305:ILE:O	2.13	0.49
1:G:432:LYS:HD2	1:H:515:ALA:HB3	1.95	0.49
1:G:495:LYS:HB2	1:G:498:THR:CB	2.43	0.49
1:G:581:TYR:HE2	1:H:524:VAL:HG11	1.77	0.49
1:H:180:MET:SD	1:H:234:LEU:HB3	2.52	0.49
1:H:249:LEU:HD13	1:H:257:MET:HG3	1.93	0.49
1:H:300:THR:HA	1:I:326:ARG:HD3	1.94	0.49
1:K:135:ASP:CG	1:L:110:VAL:HG21	2.33	0.49
1:K:395:GLY:HA2	1:K:412:LEU:HD13	1.93	0.49
1:N:608:SER:N	1:N:609:PRO:CD	2.72	0.49
1:C:510:ARG:HD2	1:C:566:LEU:HD21	1.92	0.49
1:G:395:GLY:O	1:H:358:THR:HG23	2.12	0.49
1:G:426:ILE:HA	1:H:527:GLY:HA2	1.95	0.49
1:H:115:LEU:CD1	1:H:159:VAL:HG21	2.37	0.49
1:H:133:HIS:HD2	1:I:159:VAL:CG2	2.26	0.49
1:H:208:ALA:O	1:I:183:LEU:HD21	2.13	0.49
1:H:611:ARG:NH2	1:I:417:LYS:HD2	2.28	0.49
1:J:258:VAL:HG22	1:J:303:LEU:HD11	1.95	0.49
1:K:258:VAL:HG22	1:K:303:LEU:HD11	1.95	0.49
1:L:111:SER:HB3	1:M:198:THR:HG23	1.94	0.49
1:L:216:VAL:HG21	1:M:183:LEU:HD22	1.95	0.49
1:L:253:LYS:HG2	1:M:475:GLN:OE1	2.13	0.49
1:N:258:VAL:HG22	1:N:303:LEU:HD11	1.95	0.49
1:O:258:VAL:HG22	1:O:303:LEU:HD11	1.94	0.49
1:G:107:VAL:CG2	1:G:112:VAL:HG12	2.43	0.49
1:G:167:VAL:HG21	1:H:230:MET:CE	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:217:VAL:HG22	1:G:227:ILE:HG21	1.95	0.49
1:J:343:GLY:N	1:J:414:THR:O	2.45	0.49
1:K:394:ASN:HD21	1:L:361:THR:HB	1.77	0.49
1:M:346:LEU:C	1:M:346:LEU:HD12	2.33	0.49
1:N:104:VAL:HG21	1:O:158:ARG:HD2	1.93	0.49
1:A:511:THR:HB	1:O:437:ASN:HB3	1.94	0.49
1:B:169:ILE:HD12	1:B:216:VAL:HG22	1.94	0.49
1:B:249:LEU:HD21	1:B:319:VAL:HG13	1.95	0.49
1:C:104:VAL:HG22	1:C:141:LEU:HA	1.93	0.49
1:C:187:LEU:HG	1:C:187:LEU:O	2.12	0.49
1:E:244:THR:HG23	1:E:305:ILE:O	2.13	0.49
1:E:250:LYS:HB3	1:F:478:GLU:H	1.78	0.49
1:E:345:ASN:O	1:E:411:ALA:HA	2.12	0.49
1:E:581:TYR:CE2	1:F:518:VAL:HG22	2.47	0.49
1:H:135:ASP:HB3	1:I:163:GLY:HA3	1.93	0.49
1:H:189:LYS:HD3	1:H:193:SER:HB3	1.95	0.49
1:I:343:GLY:N	1:I:414:THR:O	2.46	0.49
1:I:617:TYR:CE1	1:J:523:THR:O	2.64	0.49
1:J:346:LEU:C	1:J:346:LEU:HD12	2.34	0.49
1:M:169:ILE:HD12	1:M:216:VAL:HG22	1.95	0.49
1:M:343:GLY:N	1:M:414:THR:O	2.46	0.49
1:O:343:GLY:N	1:O:414:THR:O	2.46	0.49
1:A:445:GLN:CB	1:O:461:ILE:CG1	2.88	0.49
1:B:592:PHE:CZ	1:C:336:VAL:HB	2.48	0.49
1:C:395:GLY:O	1:D:358:THR:HA	2.13	0.49
1:C:608:SER:N	1:C:609:PRO:CD	2.73	0.49
1:D:293:ALA:HB3	1:D:306:THR:HG23	1.95	0.49
1:D:396:MET:HA	1:E:358:THR:HA	1.93	0.49
1:E:493:VAL:HG22	1:E:493:VAL:O	2.12	0.49
1:G:345:ASN:O	1:G:411:ALA:HA	2.13	0.49
1:H:104:VAL:CG2	1:I:158:ARG:CZ	2.88	0.49
1:H:108:ARG:HE	1:I:222:LYS:HB3	1.78	0.49
1:H:294:ILE:CG2	1:H:303:LEU:HD11	2.43	0.49
1:H:343:GLY:N	1:H:414:THR:O	2.45	0.49
1:H:348:VAL:HG12	1:H:350:TRP:HE1	1.75	0.49
1:I:111:SER:HB3	1:J:198:THR:CA	2.43	0.49
1:I:346:LEU:O	1:I:346:LEU:HD12	2.13	0.49
1:J:437:ASN:HB3	1:K:511:THR:HB	1.94	0.49
1:K:253:LYS:HG2	1:L:475:GLN:OE1	2.13	0.49
1:L:104:VAL:HG23	1:M:158:ARG:HD2	1.94	0.49
1:N:249:LEU:HD13	1:N:257:MET:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:294:ILE:CG2	1:N:303:LEU:HD11	2.43	0.49
1:N:438:VAL:HB	1:O:529:LEU:CD2	2.43	0.49
1:A:503:LEU:HB3	1:O:461:ILE:HG21	1.95	0.48
1:C:424:PRO:HA	1:D:528:GLY:O	2.13	0.48
1:D:249:LEU:HD21	1:D:319:VAL:HG13	1.95	0.48
1:E:104:VAL:HG22	1:E:141:LEU:HA	1.95	0.48
1:F:109:ASN:CG	1:F:163:GLY:O	2.51	0.48
1:F:493:VAL:O	1:F:493:VAL:HG22	2.13	0.48
1:H:216:VAL:HG21	1:I:183:LEU:CD1	2.29	0.48
1:H:299:THR:C	1:I:326:ARG:HD3	2.34	0.48
1:H:345:ASN:O	1:H:411:ALA:HA	2.14	0.48
1:H:608:SER:N	1:H:609:PRO:CD	2.73	0.48
1:J:169:ILE:HD12	1:J:216:VAL:HG22	1.95	0.48
1:K:118:LEU:HD13	1:K:155:VAL:HG11	1.95	0.48
1:K:468:THR:HG21	1:L:529:LEU:HD13	1.95	0.48
1:L:358:THR:HG22	1:L:360:PHE:CZ	2.48	0.48
1:M:582:SER:O	1:M:586:SER:N	2.40	0.48
1:B:139:VAL:CG1	1:C:162:ALA:O	2.44	0.48
1:C:328:GLN:NE2	1:D:517:LEU:N	2.60	0.48
1:E:350:TRP:HZ2	1:E:553:LEU:HB3	1.78	0.48
1:F:203:ALA:HB1	1:F:204:PRO:HD2	1.94	0.48
1:G:609:PRO:O	1:G:609:PRO:CD	2.62	0.48
1:H:104:VAL:HG21	1:I:158:ARG:HH11	1.77	0.48
1:H:395:GLY:HA2	1:H:412:LEU:HD13	1.96	0.48
1:I:612:GLN:HG3	1:K:532:GLU:OE1	2.13	0.48
1:J:104:VAL:HG22	1:J:141:LEU:HA	1.93	0.48
1:N:293:ALA:HB3	1:N:306:THR:HG23	1.95	0.48
1:N:343:GLY:N	1:N:414:THR:O	2.46	0.48
1:O:608:SER:N	1:O:609:PRO:CD	2.73	0.48
1:A:111:SER:HB3	1:B:198:THR:CB	2.43	0.48
1:A:292:LEU:HD12	1:A:311:VAL:CG1	2.26	0.48
1:A:361:THR:HB	1:O:394:ASN:ND2	2.24	0.48
1:C:180:MET:CE	1:C:234:LEU:HB2	2.44	0.48
1:D:207:VAL:HG22	1:E:186:ASN:HB3	1.95	0.48
1:E:424:PRO:HA	1:F:529:LEU:HA	1.96	0.48
1:G:394:ASN:OD1	1:H:360:PHE:CA	2.57	0.48
1:H:184:VAL:HG11	1:H:206:VAL:HG11	1.96	0.48
1:I:107:VAL:CG2	1:I:112:VAL:HG12	2.44	0.48
1:I:177:ALA:O	1:I:180:MET:HB2	2.13	0.48
1:I:180:MET:CE	1:I:234:LEU:HB2	2.43	0.48
1:K:328:GLN:NE2	1:L:517:LEU:C	2.63	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:343:GLY:N	1:K:414:THR:O	2.46	0.48
1:N:151:ARG:HA	1:N:154:GLU:HB2	1.95	0.48
1:A:123:ASN:CG	1:A:130:ASN:HB2	2.33	0.48
1:B:358:THR:HG22	1:B:360:PHE:CZ	2.48	0.48
1:E:293:ALA:HB3	1:E:306:THR:HG23	1.95	0.48
1:E:525:VAL:O	1:E:525:VAL:HG13	2.14	0.48
1:F:258:VAL:HG22	1:F:303:LEU:HD11	1.95	0.48
1:F:510:ARG:HD2	1:F:566:LEU:HD21	1.94	0.48
1:G:343:GLY:N	1:G:414:THR:O	2.46	0.48
1:H:169:ILE:CG1	1:I:234:LEU:HG	2.34	0.48
1:K:442:VAL:HA	1:L:506:THR:HG22	1.95	0.48
1:K:582:SER:O	1:K:586:SER:N	2.40	0.48
1:L:301:ASN:HB2	1:M:431:ASN:ND2	2.28	0.48
1:L:346:LEU:C	1:L:346:LEU:HD12	2.33	0.48
1:M:151:ARG:HA	1:M:154:GLU:HB2	1.96	0.48
1:N:346:LEU:C	1:N:346:LEU:HD12	2.33	0.48
1:N:510:ARG:HD2	1:N:566:LEU:HD21	1.93	0.48
1:O:346:LEU:HD12	1:O:346:LEU:C	2.33	0.48
1:B:346:LEU:C	1:B:346:LEU:HD12	2.33	0.48
1:B:394:ASN:HD21	1:C:361:THR:CB	2.25	0.48
1:C:346:LEU:C	1:C:346:LEU:HD12	2.34	0.48
1:E:318:VAL:O	1:E:322:LEU:HB2	2.13	0.48
1:G:383:THR:HB	1:H:372:ILE:CG2	2.44	0.48
1:G:444:VAL:HG21	1:G:464:LYS:HE3	1.94	0.48
1:H:141:LEU:HD23	1:I:162:ALA:CB	2.44	0.48
1:H:417:LYS:HB2	1:I:536:GLU:HB3	1.93	0.48
1:I:168:ASP:OD1	1:I:224:ARG:HD2	2.13	0.48
1:J:180:MET:CE	1:J:234:LEU:HB2	2.44	0.48
1:L:343:GLY:N	1:L:414:THR:O	2.46	0.48
1:N:176:SER:OG	1:O:308:GLN:HG2	2.13	0.48
1:A:207:VAL:HG21	1:B:186:ASN:CB	2.43	0.48
1:A:350:TRP:HZ2	1:A:553:LEU:HB3	1.78	0.48
1:A:375:LYS:HG3	1:O:377:TYR:OH	2.13	0.48
1:A:417:LYS:O	1:B:536:GLU:N	2.24	0.48
1:B:328:GLN:NE2	1:C:517:LEU:N	2.58	0.48
1:B:445:GLN:HE21	1:C:503:LEU:CD2	2.27	0.48
1:C:118:LEU:HD13	1:C:155:VAL:HG11	1.94	0.48
1:C:358:THR:HG22	1:C:360:PHE:CZ	2.48	0.48
1:D:581:TYR:CE2	1:E:524:VAL:HG11	2.49	0.48
1:E:258:VAL:HG22	1:E:303:LEU:HD11	1.95	0.48
1:H:139:VAL:HG21	1:I:161:LYS:C	2.33	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:438:VAL:HB	1:I:529:LEU:CD2	2.43	0.48
1:K:438:VAL:HB	1:L:529:LEU:CD2	2.44	0.48
1:M:136:PRO:HB3	1:N:199:SER:CB	2.43	0.48
1:M:249:LEU:HD21	1:M:319:VAL:HG13	1.95	0.48
1:M:358:THR:HG22	1:M:360:PHE:CZ	2.48	0.48
1:N:482:VAL:HG21	1:N:572:PRO:CB	2.35	0.48
1:O:294:ILE:CG2	1:O:303:LEU:HD11	2.43	0.48
1:A:180:MET:CE	1:A:234:LEU:HB2	2.44	0.48
1:A:346:LEU:C	1:A:346:LEU:HD12	2.34	0.48
1:A:351:ALA:HA	1:A:357:GLY:HA2	1.96	0.48
1:C:141:LEU:HD12	1:C:141:LEU:O	2.14	0.48
1:D:358:THR:HG22	1:D:360:PHE:CZ	2.48	0.48
1:D:417:LYS:O	1:E:536:GLU:N	2.27	0.48
1:E:118:LEU:HD13	1:E:155:VAL:HG11	1.96	0.48
1:E:249:LEU:HD21	1:E:319:VAL:HG13	1.96	0.48
1:F:217:VAL:HG22	1:F:227:ILE:HG21	1.96	0.48
1:F:345:ASN:O	1:F:411:ALA:HA	2.14	0.48
1:H:226:ARG:O	1:H:230:MET:HG3	2.14	0.48
1:H:510:ARG:HD2	1:H:566:LEU:HD21	1.93	0.48
1:I:188:ASN:O	1:I:189:LYS:HB2	2.14	0.48
1:I:377:TYR:HH	1:J:375:LYS:HG3	1.77	0.48
1:I:398:ALA:CB	1:J:356:GLY:HA3	2.43	0.48
1:K:294:ILE:CG2	1:K:303:LEU:HD11	2.43	0.48
1:O:118:LEU:HD13	1:O:155:VAL:HG11	1.94	0.48
1:C:169:ILE:HD12	1:C:216:VAL:HG22	1.95	0.48
1:C:253:LYS:HE2	1:C:253:LYS:HB3	1.62	0.48
1:C:294:ILE:CG2	1:C:303:LEU:HD11	2.44	0.48
1:D:123:ASN:CG	1:D:130:ASN:HB2	2.31	0.48
1:D:336:VAL:CG1	1:D:421:LEU:HD13	2.44	0.48
1:E:336:VAL:CG1	1:E:421:LEU:HD13	2.44	0.48
1:E:343:GLY:N	1:E:414:THR:O	2.47	0.48
1:F:336:VAL:CG1	1:F:421:LEU:HD13	2.44	0.48
1:G:299:THR:O	1:H:431:ASN:HB2	2.14	0.48
1:G:476:ILE:HG12	1:G:574:ILE:HD11	1.96	0.48
1:I:189:LYS:HD2	1:I:200:LEU:CD2	2.43	0.48
1:I:249:LEU:CD1	1:I:257:MET:HG3	2.42	0.48
1:I:328:GLN:HE21	1:J:517:LEU:N	2.07	0.48
1:I:599:ALA:CB	1:I:611:ARG:HD3	2.43	0.48
1:K:249:LEU:HD21	1:K:319:VAL:HG13	1.95	0.48
1:L:412:LEU:CD1	1:M:360:PHE:HE1	2.26	0.48
1:N:592:PHE:CZ	1:O:336:VAL:HB	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:249:LEU:HD21	1:O:319:VAL:HG13	1.95	0.48
1:O:358:THR:HG22	1:O:360:PHE:CZ	2.48	0.48
1:A:151:ARG:HA	1:A:154:GLU:HB2	1.96	0.48
1:A:249:LEU:HD21	1:A:319:VAL:HG13	1.95	0.48
1:B:151:ARG:HA	1:B:154:GLU:HB2	1.96	0.48
1:B:180:MET:CE	1:B:234:LEU:HB2	2.44	0.48
1:C:258:VAL:HG22	1:C:303:LEU:HD11	1.96	0.48
1:E:442:VAL:CG2	1:E:507:PHE:HZ	2.26	0.48
1:E:588:LYS:HD3	1:F:567:MET:HE1	1.95	0.48
1:G:358:THR:HG22	1:G:360:PHE:CZ	2.48	0.48
1:G:438:VAL:HB	1:H:529:LEU:HD22	1.96	0.48
1:H:151:ARG:HA	1:H:154:GLU:HB2	1.95	0.48
1:I:165:GLN:HG3	1:I:165:GLN:O	2.13	0.48
1:J:596:GLN:HG2	1:K:338:ILE:HD11	1.96	0.48
1:O:293:ALA:HB3	1:O:306:THR:HG23	1.96	0.48
1:A:115:LEU:CD1	1:A:159:VAL:HG21	2.40	0.48
1:A:162:ALA:O	1:O:139:VAL:CG2	2.61	0.48
1:A:251:TYR:OH	1:B:477:ASN:ND2	2.46	0.48
1:A:294:ILE:CG2	1:A:303:LEU:HD11	2.44	0.48
1:B:118:LEU:HD13	1:B:155:VAL:HG11	1.94	0.48
1:B:345:ASN:O	1:B:411:ALA:HA	2.14	0.48
1:D:346:LEU:C	1:D:346:LEU:HD12	2.34	0.48
1:E:358:THR:HG22	1:E:360:PHE:CZ	2.48	0.48
1:F:123:ASN:CG	1:F:130:ASN:HB2	2.33	0.48
1:G:141:LEU:HD12	1:G:141:LEU:O	2.14	0.48
1:G:251:TYR:OH	1:H:477:ASN:ND2	2.47	0.48
1:J:136:PRO:HB3	1:K:199:SER:CB	2.43	0.48
1:J:336:VAL:CG1	1:J:421:LEU:HD13	2.44	0.48
1:A:394:ASN:HD21	1:B:361:THR:HB	1.79	0.47
1:B:141:LEU:HD12	1:B:141:LEU:O	2.14	0.47
1:C:151:ARG:HA	1:C:154:GLU:HB2	1.96	0.47
1:C:603:GLU:CG	1:C:611:ARG:HD2	2.44	0.47
1:D:294:ILE:CG2	1:D:303:LEU:HD11	2.44	0.47
1:E:346:LEU:C	1:E:346:LEU:HD12	2.34	0.47
1:E:417:LYS:N	1:F:536:GLU:O	2.44	0.47
1:F:300:THR:HG23	1:G:324:ILE:HD11	1.96	0.47
1:H:461:ILE:HG21	1:I:503:LEU:HB3	1.96	0.47
1:I:329:VAL:HG23	1:I:476:ILE:HD11	1.93	0.47
1:K:328:GLN:NE2	1:L:517:LEU:N	2.57	0.47
1:L:445:GLN:HE21	1:M:503:LEU:CD2	2.27	0.47
1:M:180:MET:CE	1:M:234:LEU:HB2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:139:VAL:CB	1:O:162:ALA:O	2.62	0.47
1:A:300:THR:CG2	1:B:324:ILE:HD11	2.44	0.47
1:A:345:ASN:O	1:A:411:ALA:HA	2.14	0.47
1:C:249:LEU:HD21	1:C:319:VAL:HG13	1.95	0.47
1:D:102:THR:OG1	1:D:142:ILE:O	2.26	0.47
1:E:123:ASN:CG	1:E:130:ASN:HB2	2.32	0.47
1:E:582:SER:O	1:E:586:SER:N	2.41	0.47
1:F:603:GLU:CG	1:F:611:ARG:HD2	2.44	0.47
1:G:249:LEU:HD21	1:G:319:VAL:HG13	1.96	0.47
1:H:249:LEU:HD21	1:H:319:VAL:HG13	1.95	0.47
1:H:293:ALA:HB3	1:H:306:THR:HG23	1.96	0.47
1:H:350:TRP:HZ2	1:H:553:LEU:HB3	1.79	0.47
1:I:603:GLU:CG	1:I:611:ARG:HD2	2.44	0.47
1:J:345:ASN:O	1:J:411:ALA:HA	2.14	0.47
1:J:472:LEU:HD21	1:J:484:LEU:HD22	1.97	0.47
1:J:599:ALA:CB	1:J:611:ARG:HD3	2.44	0.47
1:K:180:MET:CE	1:K:234:LEU:HB2	2.44	0.47
1:L:151:ARG:HA	1:L:154:GLU:HB2	1.96	0.47
1:M:141:LEU:HD12	1:M:141:LEU:O	2.13	0.47
1:M:398:ALA:HA	1:N:356:GLY:HA3	1.97	0.47
1:N:180:MET:CE	1:N:234:LEU:HB2	2.44	0.47
1:A:358:THR:HG22	1:A:360:PHE:CZ	2.48	0.47
1:A:475:GLN:OE1	1:O:253:LYS:HG2	2.15	0.47
1:B:336:VAL:CG1	1:B:421:LEU:HD13	2.44	0.47
1:C:211:ARG:HA	1:D:243:ASN:ND2	2.29	0.47
1:C:345:ASN:O	1:C:411:ALA:HA	2.14	0.47
1:D:476:ILE:HG12	1:D:574:ILE:HD11	1.96	0.47
1:E:332:GLU:HG3	1:E:425:SER:HB3	1.95	0.47
1:F:122:LEU:HA	1:F:125:ASN:HB2	1.95	0.47
1:F:151:ARG:HA	1:F:154:GLU:HB2	1.95	0.47
1:G:468:THR:HG21	1:H:529:LEU:HD13	1.95	0.47
1:J:331:VAL:HG21	1:J:472:LEU:HD21	1.97	0.47
1:J:340:ASP:HB3	1:J:417:LYS:HD3	1.96	0.47
1:K:123:ASN:CG	1:K:130:ASN:HB2	2.32	0.47
1:K:293:ALA:HB3	1:K:306:THR:HG23	1.96	0.47
1:K:358:THR:HG22	1:K:360:PHE:CZ	2.48	0.47
1:L:610:ASP:O	1:N:534:THR:HG21	2.14	0.47
1:N:118:LEU:HD13	1:N:155:VAL:HG11	1.95	0.47
1:O:350:TRP:HZ2	1:O:553:LEU:HB3	1.78	0.47
1:A:603:GLU:CG	1:A:611:ARG:HD2	2.44	0.47
1:B:468:THR:HG21	1:C:529:LEU:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:603:GLU:CG	1:B:611:ARG:HD2	2.44	0.47
1:C:331:VAL:HG21	1:C:472:LEU:HD21	1.96	0.47
1:C:336:VAL:CG1	1:C:421:LEU:HD13	2.44	0.47
1:D:180:MET:CE	1:D:234:LEU:HB2	2.44	0.47
1:G:603:GLU:CG	1:G:611:ARG:HD2	2.44	0.47
1:H:107:VAL:CG2	1:H:112:VAL:HG12	2.45	0.47
1:K:119:LEU:HB2	1:K:132:VAL:HG11	1.96	0.47
1:K:482:VAL:HG21	1:K:572:PRO:CB	2.35	0.47
1:L:328:GLN:NE2	1:M:517:LEU:N	2.61	0.47
1:L:592:PHE:CE2	1:M:336:VAL:HG21	2.50	0.47
1:M:294:ILE:CG2	1:M:303:LEU:HD11	2.44	0.47
1:B:258:VAL:HG22	1:B:303:LEU:HD11	1.95	0.47
1:B:437:ASN:HB3	1:C:511:THR:HB	1.95	0.47
1:D:207:VAL:HG21	1:E:186:ASN:HB2	1.97	0.47
1:D:345:ASN:O	1:D:411:ALA:HA	2.15	0.47
1:F:476:ILE:HG12	1:F:574:ILE:HD11	1.96	0.47
1:F:581:TYR:HE2	1:G:524:VAL:HG11	1.75	0.47
1:G:336:VAL:CG1	1:G:421:LEU:HD13	2.45	0.47
1:H:141:LEU:CD2	1:I:159:VAL:CB	2.89	0.47
1:H:336:VAL:CG1	1:H:421:LEU:HD13	2.45	0.47
1:J:123:ASN:CG	1:J:130:ASN:HB2	2.32	0.47
1:J:141:LEU:HD12	1:J:141:LEU:O	2.13	0.47
1:J:211:ARG:HA	1:K:243:ASN:ND2	2.29	0.47
1:J:249:LEU:HD21	1:J:319:VAL:HG13	1.95	0.47
1:K:151:ARG:HA	1:K:154:GLU:HB2	1.96	0.47
1:K:336:VAL:CG1	1:K:421:LEU:HD13	2.44	0.47
1:L:294:ILE:CG2	1:L:303:LEU:HD11	2.44	0.47
1:N:358:THR:HG22	1:N:360:PHE:CZ	2.48	0.47
1:A:118:LEU:HD13	1:A:155:VAL:HG11	1.96	0.47
1:A:258:VAL:HG22	1:A:303:LEU:HD11	1.96	0.47
1:A:332:GLU:HG3	1:A:425:SER:HB3	1.96	0.47
1:A:360:PHE:HE1	1:O:412:LEU:CD1	2.27	0.47
1:B:331:VAL:HG21	1:B:472:LEU:HD21	1.97	0.47
1:B:472:LEU:HD21	1:B:484:LEU:HD22	1.97	0.47
1:C:472:LEU:HD21	1:C:484:LEU:HD22	1.97	0.47
1:C:482:VAL:HG21	1:C:572:PRO:CB	2.36	0.47
1:D:258:VAL:HG22	1:D:303:LEU:HD11	1.95	0.47
1:D:331:VAL:HG21	1:D:472:LEU:HD21	1.97	0.47
1:D:495:LYS:HB2	1:D:498:THR:CB	2.43	0.47
1:E:151:ARG:HA	1:E:154:GLU:HB2	1.95	0.47
1:F:253:LYS:HB3	1:F:253:LYS:HE2	1.64	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:203:ALA:HB1	1:G:204:PRO:HD2	1.95	0.47
1:G:318:VAL:O	1:G:322:LEU:HB2	2.14	0.47
1:H:217:VAL:HG22	1:H:227:ILE:HG21	1.97	0.47
1:H:326:ARG:HB2	1:H:429:MET:CE	2.45	0.47
1:I:115:LEU:CD1	1:I:159:VAL:HG21	2.38	0.47
1:I:336:VAL:CG1	1:I:421:LEU:HD13	2.45	0.47
1:J:318:VAL:O	1:J:322:LEU:HB2	2.14	0.47
1:K:139:VAL:HG11	1:L:163:GLY:HA2	1.97	0.47
1:K:331:VAL:HG21	1:K:472:LEU:HD21	1.97	0.47
1:K:345:ASN:O	1:K:411:ALA:HA	2.14	0.47
1:K:346:LEU:C	1:K:346:LEU:HD12	2.34	0.47
1:K:394:ASN:OD1	1:L:360:PHE:C	2.53	0.47
1:K:592:PHE:CZ	1:L:336:VAL:HB	2.50	0.47
1:K:603:GLU:CG	1:K:611:ARG:HD2	2.45	0.47
1:L:249:LEU:HD21	1:L:319:VAL:HG13	1.95	0.47
1:L:331:VAL:HG21	1:L:472:LEU:HD21	1.97	0.47
1:L:472:LEU:HD21	1:L:484:LEU:HD22	1.97	0.47
1:N:207:VAL:HG21	1:O:186:ASN:HB2	1.97	0.47
1:A:122:LEU:HB2	1:A:152:LEU:HD21	1.97	0.47
1:A:198:THR:CG2	1:O:111:SER:HB3	2.44	0.47
1:C:149:VAL:HA	1:C:152:LEU:HB2	1.97	0.47
1:C:438:VAL:HB	1:D:529:LEU:CD2	2.45	0.47
1:C:495:LYS:HB2	1:C:498:THR:CB	2.43	0.47
1:D:109:ASN:CG	1:D:163:GLY:O	2.53	0.47
1:D:118:LEU:HD13	1:D:155:VAL:HG11	1.96	0.47
1:D:119:LEU:HB2	1:D:132:VAL:HG11	1.96	0.47
1:D:122:LEU:HA	1:D:125:ASN:HB2	1.96	0.47
1:D:151:ARG:HA	1:D:154:GLU:HB2	1.95	0.47
1:D:169:ILE:HD12	1:D:216:VAL:HG22	1.95	0.47
1:D:350:TRP:HZ2	1:D:553:LEU:HB3	1.79	0.47
1:D:482:VAL:HG21	1:D:572:PRO:CB	2.35	0.47
1:E:136:PRO:HB3	1:F:199:SER:CB	2.45	0.47
1:E:419:ASP:N	1:F:534:THR:O	2.39	0.47
1:E:472:LEU:HD12	1:E:485:THR:O	2.15	0.47
1:E:611:ARG:HH22	1:F:417:LYS:HD2	1.75	0.47
1:F:331:VAL:HG21	1:F:472:LEU:HD21	1.97	0.47
1:F:395:GLY:O	1:G:358:THR:HA	2.14	0.47
1:G:169:ILE:HD12	1:G:216:VAL:HG22	1.96	0.47
1:H:119:LEU:HD21	1:H:155:VAL:HG11	1.96	0.47
1:H:179:GLU:O	1:H:183:LEU:HG	2.14	0.47
1:I:101:VAL:HG21	1:I:103:ARG:HH21	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:412:LEU:HD13	1:J:360:PHE:CE1	2.50	0.47
1:I:516:VAL:HG11	1:I:526:LEU:HD23	1.96	0.47
1:I:596:GLN:HG2	1:J:338:ILE:HD11	1.97	0.47
1:J:149:VAL:HA	1:J:152:LEU:HB2	1.97	0.47
1:J:151:ARG:HA	1:J:154:GLU:HB2	1.96	0.47
1:J:294:ILE:CG2	1:J:303:LEU:HD11	2.44	0.47
1:K:318:VAL:O	1:K:322:LEU:HB2	2.15	0.47
1:L:180:MET:CE	1:L:234:LEU:HB2	2.45	0.47
1:L:336:VAL:CG1	1:L:421:LEU:HD13	2.44	0.47
1:L:345:ASN:O	1:L:411:ALA:HA	2.14	0.47
1:M:203:ALA:HB1	1:M:204:PRO:HD2	1.96	0.47
1:M:331:VAL:HG21	1:M:472:LEU:HD21	1.97	0.47
1:M:472:LEU:HD21	1:M:484:LEU:HD22	1.97	0.47
1:N:203:ALA:HB1	1:N:204:PRO:HD2	1.97	0.47
1:N:331:VAL:HG21	1:N:472:LEU:HD21	1.97	0.47
1:O:151:ARG:HA	1:O:154:GLU:HB2	1.96	0.47
1:O:180:MET:CE	1:O:234:LEU:HB2	2.45	0.47
1:O:258:VAL:CG2	1:O:296:ALA:CB	2.92	0.47
1:O:292:LEU:HD12	1:O:311:VAL:CG1	2.27	0.47
1:O:331:VAL:HG21	1:O:472:LEU:HD21	1.97	0.47
1:O:345:ASN:O	1:O:411:ALA:HA	2.14	0.47
1:A:331:VAL:HG21	1:A:472:LEU:HD21	1.97	0.47
1:B:394:ASN:OD1	1:C:360:PHE:C	2.53	0.47
1:B:412:LEU:CD1	1:C:360:PHE:HE1	2.27	0.47
1:D:466:VAL:HG23	1:D:466:VAL:O	2.15	0.47
1:D:472:LEU:HD21	1:D:484:LEU:HD22	1.97	0.47
1:E:109:ASN:CG	1:E:163:GLY:O	2.53	0.47
1:F:107:VAL:CG2	1:F:112:VAL:HG12	2.45	0.47
1:F:444:VAL:HG21	1:F:464:LYS:HE3	1.95	0.47
1:F:495:LYS:HB2	1:F:498:THR:CB	2.42	0.47
1:F:516:VAL:HG11	1:F:526:LEU:HD23	1.97	0.47
1:G:104:VAL:HG23	1:H:158:ARG:CD	2.33	0.47
1:G:189:LYS:HD3	1:G:193:SER:HB3	1.97	0.47
1:G:331:VAL:HG21	1:G:472:LEU:HD21	1.97	0.47
1:H:135:ASP:CA	1:I:110:VAL:CG2	2.85	0.47
1:H:166:GLU:CD	1:I:229:GLN:OE1	2.53	0.47
1:H:201:LEU:HB2	1:I:189:LYS:HZ3	1.79	0.47
1:H:331:VAL:HG21	1:H:472:LEU:HD21	1.97	0.47
1:I:293:ALA:HB3	1:I:306:THR:HG23	1.97	0.47
1:I:332:GLU:HG3	1:I:425:SER:HB3	1.97	0.47
1:J:603:GLU:CG	1:J:611:ARG:HD2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:149:VAL:HA	1:K:152:LEU:HB2	1.97	0.47
1:L:119:LEU:HB2	1:L:132:VAL:HG11	1.96	0.47
1:L:340:ASP:HB3	1:L:417:LYS:HD3	1.96	0.47
1:M:345:ASN:O	1:M:411:ALA:HA	2.14	0.47
1:N:318:VAL:O	1:N:322:LEU:HB2	2.15	0.47
1:N:328:GLN:NE2	1:O:517:LEU:C	2.61	0.47
1:N:350:TRP:HZ2	1:N:553:LEU:HB3	1.78	0.47
1:C:340:ASP:HB3	1:C:417:LYS:HD3	1.97	0.47
1:D:258:VAL:CG2	1:D:296:ALA:CB	2.91	0.47
1:D:592:PHE:CZ	1:E:336:VAL:HB	2.50	0.47
1:E:122:LEU:HA	1:E:125:ASN:HB2	1.96	0.47
1:H:122:LEU:HA	1:H:125:ASN:HB2	1.95	0.47
1:H:261:LEU:HD12	1:H:303:LEU:CD2	2.44	0.47
1:I:111:SER:HB3	1:J:198:THR:N	2.30	0.47
1:J:119:LEU:HB2	1:J:132:VAL:HG11	1.97	0.47
1:K:216:VAL:HG21	1:L:183:LEU:HB3	1.97	0.47
1:K:344:LEU:HB3	1:K:559:ASN:HB2	1.97	0.47
1:L:115:LEU:CD1	1:L:159:VAL:HG21	2.39	0.47
1:L:596:GLN:HG2	1:M:338:ILE:HD11	1.97	0.47
1:M:293:ALA:HB3	1:M:306:THR:HG23	1.97	0.47
1:N:253:LYS:HB3	1:N:253:LYS:HE2	1.63	0.47
1:O:318:VAL:O	1:O:322:LEU:HB2	2.15	0.47
1:O:516:VAL:HG11	1:O:526:LEU:HD23	1.97	0.47
1:O:603:GLU:CG	1:O:611:ARG:HD2	2.45	0.47
1:A:254:ALA:HB1	1:A:296:ALA:HB1	1.97	0.47
1:B:294:ILE:CG2	1:B:303:LEU:HD11	2.44	0.47
1:B:328:GLN:NE2	1:C:517:LEU:C	2.64	0.47
1:B:340:ASP:HB3	1:B:417:LYS:HD3	1.97	0.47
1:B:476:ILE:HG12	1:B:574:ILE:HD11	1.97	0.47
1:B:599:ALA:CB	1:B:611:ARG:HD3	2.44	0.47
1:D:328:GLN:HE21	1:E:517:LEU:N	2.13	0.47
1:D:599:ALA:CB	1:D:611:ARG:HD3	2.44	0.47
1:F:169:ILE:HD12	1:F:216:VAL:HG22	1.96	0.47
1:F:180:MET:CE	1:F:234:LEU:HB2	2.44	0.47
1:F:344:LEU:HB3	1:F:559:ASN:HB2	1.97	0.47
1:G:340:ASP:HB3	1:G:417:LYS:HD3	1.96	0.47
1:G:493:VAL:O	1:G:493:VAL:HG22	2.15	0.47
1:G:582:SER:O	1:G:586:SER:N	2.40	0.47
1:H:265:SER:CB	1:H:292:LEU:HD22	2.38	0.47
1:H:346:LEU:C	1:H:346:LEU:HD12	2.35	0.47
1:L:123:ASN:CG	1:L:130:ASN:HB2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:136:PRO:HB3	1:M:199:SER:CB	2.45	0.47
1:L:332:GLU:HG3	1:L:425:SER:HB3	1.97	0.47
1:M:261:LEU:HD12	1:M:303:LEU:CD2	2.44	0.47
1:M:445:GLN:HE21	1:N:503:LEU:CD2	2.28	0.47
1:M:603:GLU:CG	1:M:611:ARG:HD2	2.44	0.47
1:A:109:ASN:CG	1:A:163:GLY:O	2.54	0.46
1:A:336:VAL:CG1	1:A:421:LEU:HD13	2.44	0.46
1:A:472:LEU:HD21	1:A:484:LEU:HD22	1.97	0.46
1:B:149:VAL:HA	1:B:152:LEU:HB2	1.97	0.46
1:B:174:TYR:CE1	1:B:237:GLU:HB3	2.50	0.46
1:C:123:ASN:CG	1:C:130:ASN:HB2	2.32	0.46
1:C:351:ALA:HA	1:C:357:GLY:HA2	1.97	0.46
1:D:149:VAL:HA	1:D:152:LEU:HB2	1.98	0.46
1:D:383:THR:CB	1:E:372:ILE:HB	2.45	0.46
1:E:328:GLN:HE21	1:F:517:LEU:N	2.12	0.46
1:E:516:VAL:HG11	1:E:526:LEU:HD23	1.97	0.46
1:G:226:ARG:O	1:G:230:MET:HG3	2.16	0.46
1:H:201:LEU:CB	1:I:189:LYS:CG	2.94	0.46
1:K:209:ASP:HB2	1:L:183:LEU:HD11	1.97	0.46
1:K:472:LEU:HD21	1:K:484:LEU:HD22	1.97	0.46
1:L:149:VAL:HA	1:L:152:LEU:HB2	1.97	0.46
1:M:332:GLU:HG3	1:M:425:SER:HB3	1.97	0.46
1:M:472:LEU:HD12	1:M:485:THR:O	2.16	0.46
1:N:292:LEU:HD12	1:N:311:VAL:CG1	2.27	0.46
1:N:599:ALA:CB	1:N:611:ARG:HD3	2.45	0.46
1:O:203:ALA:HB1	1:O:204:PRO:HD2	1.97	0.46
1:O:261:LEU:HD12	1:O:303:LEU:CD2	2.44	0.46
1:O:510:ARG:HD2	1:O:566:LEU:HD21	1.93	0.46
1:A:495:LYS:HB2	1:A:498:THR:CB	2.44	0.46
1:B:216:VAL:HG21	1:C:183:LEU:HD22	1.96	0.46
1:B:261:LEU:HD12	1:B:303:LEU:CD2	2.44	0.46
1:B:292:LEU:HD12	1:B:311:VAL:CG1	2.26	0.46
1:B:337:GLU:OE2	1:B:564:ARG:HG3	2.16	0.46
1:C:122:LEU:HB2	1:C:152:LEU:HD21	1.98	0.46
1:C:476:ILE:HG12	1:C:574:ILE:HD11	1.97	0.46
1:D:254:ALA:HB1	1:D:296:ALA:HB1	1.97	0.46
1:E:217:VAL:HG22	1:E:227:ILE:HG21	1.98	0.46
1:E:331:VAL:HG21	1:E:472:LEU:HD21	1.98	0.46
1:E:337:GLU:HB2	1:E:510:ARG:NH2	2.31	0.46
1:F:209:ASP:O	1:F:213:ASN:HA	2.16	0.46
1:G:122:LEU:HA	1:G:125:ASN:HB2	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:141:LEU:HD21	1:I:159:VAL:CB	2.44	0.46
1:H:340:ASP:HB3	1:H:417:LYS:HD3	1.96	0.46
1:H:472:LEU:HD21	1:H:484:LEU:HD22	1.97	0.46
1:I:340:ASP:HB3	1:I:417:LYS:HD3	1.97	0.46
1:I:461:ILE:CG1	1:J:445:GLN:HB2	2.40	0.46
1:I:472:LEU:HD12	1:I:485:THR:O	2.15	0.46
1:L:141:LEU:HD12	1:L:141:LEU:O	2.14	0.46
1:M:118:LEU:CD1	1:M:155:VAL:HG11	2.46	0.46
1:M:394:ASN:HD21	1:N:361:THR:CB	2.28	0.46
1:M:438:VAL:HB	1:N:529:LEU:CD2	2.45	0.46
1:N:249:LEU:HD21	1:N:319:VAL:HG13	1.95	0.46
1:N:345:ASN:O	1:N:411:ALA:HA	2.14	0.46
1:O:119:LEU:HB2	1:O:132:VAL:HG11	1.96	0.46
1:O:466:VAL:HG23	1:O:466:VAL:O	2.16	0.46
1:O:472:LEU:HD21	1:O:484:LEU:HD22	1.97	0.46
1:A:293:ALA:HB3	1:A:306:THR:HG23	1.97	0.46
1:A:476:ILE:HG12	1:A:574:ILE:HD11	1.97	0.46
1:A:518:VAL:CG2	1:A:524:VAL:HG21	2.46	0.46
1:B:253:LYS:HE2	1:B:253:LYS:HB3	1.62	0.46
1:B:442:VAL:HA	1:C:506:THR:HG22	1.97	0.46
1:C:254:ALA:HB1	1:C:296:ALA:HB1	1.97	0.46
1:D:344:LEU:HB3	1:D:559:ASN:HB2	1.98	0.46
1:E:351:ALA:HA	1:E:357:GLY:HA2	1.98	0.46
1:G:123:ASN:CG	1:G:130:ASN:HB2	2.34	0.46
1:H:603:GLU:CG	1:H:611:ARG:HD2	2.45	0.46
1:I:466:VAL:HG23	1:I:466:VAL:O	2.16	0.46
1:J:122:LEU:HB2	1:J:152:LEU:HD21	1.98	0.46
1:J:344:LEU:HB3	1:J:559:ASN:HB2	1.96	0.46
1:J:412:LEU:CD1	1:K:360:PHE:HE1	2.29	0.46
1:K:122:LEU:HA	1:K:125:ASN:HB2	1.97	0.46
1:K:412:LEU:CD1	1:L:360:PHE:HE1	2.28	0.46
1:L:293:ALA:HB3	1:L:306:THR:HG23	1.98	0.46
1:L:351:ALA:HA	1:L:357:GLY:HA2	1.97	0.46
1:L:472:LEU:HD12	1:L:485:THR:O	2.16	0.46
1:M:111:SER:HB3	1:N:198:THR:HG23	1.97	0.46
1:M:211:ARG:HA	1:N:243:ASN:HD21	1.79	0.46
1:M:350:TRP:HZ2	1:M:553:LEU:HB3	1.78	0.46
1:M:394:ASN:OD1	1:N:360:PHE:HA	2.15	0.46
1:N:337:GLU:OE2	1:N:564:ARG:HG3	2.16	0.46
1:A:115:LEU:HB3	1:A:119:LEU:HG	1.98	0.46
1:A:582:SER:O	1:A:586:SER:N	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:495:LYS:HB2	1:B:498:THR:CB	2.44	0.46
1:B:596:GLN:HG2	1:C:338:ILE:HD11	1.96	0.46
1:D:318:VAL:O	1:D:322:LEU:HB2	2.14	0.46
1:D:340:ASP:HB3	1:D:417:LYS:HD3	1.97	0.46
1:E:337:GLU:OE2	1:E:564:ARG:HG3	2.16	0.46
1:F:119:LEU:HD21	1:F:155:VAL:HG11	1.97	0.46
1:F:394:ASN:ND2	1:G:361:THR:CG2	2.77	0.46
1:G:301:ASN:ND2	1:H:431:ASN:OD1	2.48	0.46
1:H:118:LEU:HD13	1:H:155:VAL:HG11	1.97	0.46
1:H:516:VAL:HG11	1:H:526:LEU:HD23	1.97	0.46
1:I:383:THR:CB	1:J:372:ILE:HB	2.45	0.46
1:J:111:SER:HB3	1:K:198:THR:HG23	1.97	0.46
1:K:137:SER:HA	1:L:202:LEU:HB3	1.98	0.46
1:L:318:VAL:O	1:L:322:LEU:HB2	2.16	0.46
1:M:318:VAL:O	1:M:322:LEU:HB2	2.15	0.46
1:M:344:LEU:HB3	1:M:559:ASN:HB2	1.98	0.46
1:N:472:LEU:HD12	1:N:485:THR:O	2.16	0.46
1:N:603:GLU:CG	1:N:611:ARG:HD2	2.44	0.46
1:O:332:GLU:HG3	1:O:425:SER:HB3	1.98	0.46
1:A:472:LEU:HD12	1:A:485:THR:O	2.16	0.46
1:A:581:TYR:CE2	1:B:518:VAL:HG22	2.51	0.46
1:B:168:ASP:OD1	1:B:224:ARG:HD2	2.16	0.46
1:C:592:PHE:CE2	1:D:336:VAL:HG21	2.51	0.46
1:D:582:SER:O	1:D:586:SER:N	2.40	0.46
1:D:603:GLU:CG	1:D:611:ARG:HD2	2.45	0.46
1:E:209:ASP:O	1:E:213:ASN:HA	2.15	0.46
1:E:365:PRO:HB3	1:E:389:LEU:HD11	1.98	0.46
1:F:249:LEU:HD21	1:F:319:VAL:HG13	1.96	0.46
1:F:472:LEU:HD21	1:F:484:LEU:HD22	1.98	0.46
1:G:102:THR:HG23	1:H:158:ARG:CZ	2.45	0.46
1:G:184:VAL:HG11	1:G:206:VAL:HG11	1.98	0.46
1:G:346:LEU:HD12	1:G:346:LEU:C	2.36	0.46
1:H:344:LEU:HB3	1:H:559:ASN:HB2	1.97	0.46
1:J:438:VAL:HB	1:K:529:LEU:CD2	2.45	0.46
1:L:394:ASN:OD1	1:M:360:PHE:C	2.54	0.46
1:M:149:VAL:HA	1:M:152:LEU:HB2	1.97	0.46
1:M:337:GLU:OE2	1:M:564:ARG:HG3	2.16	0.46
1:M:476:ILE:HG12	1:M:574:ILE:HD11	1.97	0.46
1:M:596:GLN:HG2	1:N:338:ILE:HD11	1.97	0.46
1:N:332:GLU:HG3	1:N:425:SER:HB3	1.98	0.46
1:O:344:LEU:HB3	1:O:559:ASN:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:114:GLU:HB3	1:O:133:HIS:CE1	2.43	0.46
1:A:340:ASP:HB3	1:A:417:LYS:HD3	1.97	0.46
1:A:361:THR:CG2	1:O:394:ASN:ND2	2.79	0.46
1:B:174:TYR:CD1	1:B:237:GLU:HB3	2.51	0.46
1:B:332:GLU:HG3	1:B:425:SER:HB3	1.97	0.46
1:B:344:LEU:HB3	1:B:559:ASN:HB2	1.97	0.46
1:C:119:LEU:HB2	1:C:132:VAL:HG11	1.97	0.46
1:C:293:ALA:HB3	1:C:306:THR:HG23	1.98	0.46
1:E:180:MET:CE	1:E:234:LEU:HB2	2.45	0.46
1:G:326:ARG:HB2	1:G:429:MET:CE	2.46	0.46
1:G:344:LEU:HB3	1:G:559:ASN:HB2	1.98	0.46
1:H:472:LEU:HD12	1:H:485:THR:O	2.16	0.46
1:I:226:ARG:O	1:I:230:MET:HG3	2.15	0.46
1:J:461:ILE:CG1	1:K:445:GLN:HB2	2.43	0.46
1:K:476:ILE:HG12	1:K:574:ILE:HD11	1.96	0.46
1:M:265:SER:CB	1:M:292:LEU:HD22	2.39	0.46
1:M:336:VAL:CG1	1:M:421:LEU:HD13	2.44	0.46
1:N:466:VAL:O	1:N:466:VAL:HG23	2.16	0.46
1:O:336:VAL:CG1	1:O:421:LEU:HD13	2.45	0.46
1:A:116:ALA:HB1	1:A:120:ARG:NH2	2.30	0.46
1:B:116:ALA:HB1	1:B:120:ARG:NH2	2.31	0.46
1:B:254:ALA:HB1	1:B:296:ALA:HB1	1.98	0.46
1:C:136:PRO:HB3	1:D:199:SER:CB	2.46	0.46
1:C:265:SER:CB	1:C:292:LEU:HD22	2.40	0.46
1:C:466:VAL:O	1:C:466:VAL:HG23	2.16	0.46
1:E:249:LEU:HD13	1:E:257:MET:HG3	1.98	0.46
1:F:346:LEU:C	1:F:346:LEU:HD12	2.36	0.46
1:G:111:SER:HB3	1:H:198:THR:CA	2.44	0.46
1:G:119:LEU:HD21	1:G:155:VAL:HG11	1.96	0.46
1:G:510:ARG:HD2	1:G:566:LEU:HD21	1.96	0.46
1:G:516:VAL:HG11	1:G:526:LEU:HD23	1.98	0.46
1:H:119:LEU:HB2	1:H:132:VAL:HG11	1.97	0.46
1:H:137:SER:CB	1:I:163:GLY:O	2.64	0.46
1:I:254:ALA:HB1	1:I:296:ALA:HB1	1.97	0.46
1:J:337:GLU:OE2	1:J:564:ARG:HG3	2.15	0.46
1:J:476:ILE:HG12	1:J:574:ILE:HD11	1.97	0.46
1:K:332:GLU:HG3	1:K:425:SER:HB3	1.98	0.46
1:L:122:LEU:HB2	1:L:152:LEU:HD21	1.98	0.46
1:M:340:ASP:HB3	1:M:417:LYS:HD3	1.97	0.46
1:M:351:ALA:HA	1:M:357:GLY:HA2	1.97	0.46
1:M:424:PRO:HA	1:N:528:GLY:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:113:ARG:HG3	1:O:197:ASN:O	2.16	0.46
1:N:167:VAL:HG21	1:O:230:MET:HE1	1.97	0.46
1:N:258:VAL:CG2	1:N:296:ALA:CB	2.92	0.46
1:O:472:LEU:HD12	1:O:485:THR:O	2.16	0.46
1:A:318:VAL:O	1:A:322:LEU:HB2	2.16	0.46
1:A:424:PRO:HA	1:B:528:GLY:O	2.16	0.46
1:B:265:SER:CB	1:B:292:LEU:HD22	2.40	0.46
1:C:337:GLU:OE2	1:C:564:ARG:HG3	2.16	0.46
1:D:139:VAL:CG2	1:E:162:ALA:HB1	2.46	0.46
1:D:472:LEU:HD12	1:D:485:THR:O	2.16	0.46
1:F:326:ARG:HB2	1:F:429:MET:CE	2.46	0.46
1:G:180:MET:CE	1:G:234:LEU:HB2	2.45	0.46
1:G:350:TRP:HZ2	1:G:553:LEU:HB3	1.79	0.46
1:H:102:THR:O	1:I:158:ARG:NH2	2.49	0.46
1:I:122:LEU:HB2	1:I:152:LEU:HD21	1.97	0.46
1:I:344:LEU:HB3	1:I:559:ASN:HB2	1.97	0.46
1:I:358:THR:HG22	1:I:360:PHE:CZ	2.51	0.46
1:J:258:VAL:CG2	1:J:296:ALA:CB	2.93	0.46
1:K:109:ASN:CG	1:K:163:GLY:O	2.54	0.46
1:L:337:GLU:OE2	1:L:564:ARG:HG3	2.16	0.46
1:L:466:VAL:HG23	1:L:466:VAL:O	2.16	0.46
1:L:603:GLU:CG	1:L:611:ARG:HD2	2.44	0.46
1:M:119:LEU:HB2	1:M:132:VAL:HG11	1.97	0.46
1:M:253:LYS:HB3	1:M:253:LYS:HE2	1.63	0.46
1:N:119:LEU:HB2	1:N:132:VAL:HG11	1.96	0.46
1:N:351:ALA:HA	1:N:357:GLY:HA2	1.98	0.46
1:N:412:LEU:CD1	1:O:360:PHE:HE1	2.28	0.46
1:N:516:VAL:HG11	1:N:526:LEU:HD23	1.98	0.46
1:O:351:ALA:HA	1:O:357:GLY:HA2	1.98	0.46
1:O:476:ILE:HG12	1:O:574:ILE:HD11	1.97	0.46
1:A:139:VAL:HG21	1:B:162:ALA:C	2.37	0.46
1:A:141:LEU:HD12	1:A:141:LEU:O	2.16	0.46
1:A:337:GLU:OE2	1:A:564:ARG:HG3	2.16	0.46
1:B:122:LEU:HB2	1:B:152:LEU:HD21	1.97	0.46
1:B:516:VAL:HG11	1:B:526:LEU:HD23	1.98	0.46
1:C:445:GLN:HE21	1:D:503:LEU:CD2	2.29	0.46
1:E:119:LEU:HB2	1:E:132:VAL:HG11	1.98	0.46
1:E:253:LYS:HE2	1:E:253:LYS:HB3	1.64	0.46
1:E:518:VAL:CG2	1:E:524:VAL:HG21	2.45	0.46
1:F:351:ALA:HA	1:F:357:GLY:HA2	1.98	0.46
1:F:466:VAL:O	1:F:466:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:258:VAL:CG2	1:G:296:ALA:CB	2.93	0.46
1:H:209:ASP:O	1:H:213:ASN:HA	2.16	0.46
1:H:351:ALA:HA	1:H:357:GLY:HA2	1.97	0.46
1:I:337:GLU:OE2	1:I:564:ARG:HG3	2.16	0.46
1:I:345:ASN:O	1:I:411:ALA:HA	2.16	0.46
1:I:476:ILE:HG12	1:I:574:ILE:HD11	1.97	0.46
1:L:350:TRP:HZ2	1:L:553:LEU:HB3	1.78	0.46
1:M:466:VAL:HG23	1:M:466:VAL:O	2.16	0.46
1:N:109:ASN:CG	1:N:163:GLY:O	2.54	0.46
1:N:328:GLN:NE2	1:O:517:LEU:N	2.63	0.46
1:N:394:ASN:OD1	1:O:360:PHE:C	2.54	0.46
1:N:472:LEU:HD21	1:N:484:LEU:HD22	1.97	0.46
1:N:518:VAL:CG2	1:N:524:VAL:HG21	2.46	0.46
1:O:109:ASN:CG	1:O:163:GLY:O	2.54	0.46
1:A:503:LEU:HD21	1:O:445:GLN:HE21	1.80	0.46
1:B:293:ALA:HB3	1:B:306:THR:HG23	1.98	0.46
1:B:351:ALA:HA	1:B:357:GLY:HA2	1.98	0.46
1:B:438:VAL:HB	1:C:529:LEU:CD2	2.46	0.46
1:D:265:SER:CB	1:D:292:LEU:HD22	2.40	0.46
1:D:351:ALA:HA	1:D:357:GLY:HA2	1.98	0.46
1:E:203:ALA:HB1	1:E:204:PRO:HD2	1.96	0.46
1:E:344:LEU:HB3	1:E:559:ASN:HB2	1.97	0.46
1:E:581:TYR:HE2	1:F:524:VAL:HG11	1.76	0.46
1:F:189:LYS:HD3	1:F:193:SER:HB3	1.98	0.46
1:F:438:VAL:HB	1:G:529:LEU:HD22	1.97	0.46
1:G:104:VAL:HG11	1:H:162:ALA:CB	2.46	0.46
1:G:253:LYS:O	1:G:257:MET:HG2	2.16	0.46
1:G:328:GLN:NE2	1:H:517:LEU:C	2.61	0.46
1:G:472:LEU:HD21	1:G:484:LEU:HD22	1.98	0.46
1:I:328:GLN:NE2	1:J:517:LEU:N	2.57	0.46
1:J:254:ALA:HB1	1:J:296:ALA:HB1	1.98	0.46
1:J:293:ALA:HB3	1:J:306:THR:HG23	1.98	0.46
1:J:445:GLN:HE21	1:K:503:LEU:CD2	2.29	0.46
1:J:518:VAL:CG2	1:J:524:VAL:HG21	2.45	0.46
1:K:466:VAL:HG23	1:K:466:VAL:O	2.16	0.46
1:K:472:LEU:HD12	1:K:485:THR:O	2.16	0.46
1:K:516:VAL:HG11	1:K:526:LEU:HD23	1.98	0.46
1:L:118:LEU:CD1	1:L:155:VAL:HG11	2.46	0.46
1:L:438:VAL:HB	1:M:529:LEU:CD2	2.46	0.46
1:N:336:VAL:CG1	1:N:421:LEU:HD13	2.44	0.46
1:O:337:GLU:OE2	1:O:564:ARG:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:340:ASP:HB3	1:O:417:LYS:HD3	1.96	0.46
1:A:149:VAL:HA	1:A:152:LEU:HB2	1.97	0.45
1:A:516:VAL:HG11	1:A:526:LEU:HD23	1.98	0.45
1:B:318:VAL:O	1:B:322:LEU:HB2	2.16	0.45
1:B:472:LEU:HD12	1:B:485:THR:O	2.16	0.45
1:C:109:ASN:CG	1:C:163:GLY:O	2.54	0.45
1:D:141:LEU:HD12	1:D:141:LEU:O	2.16	0.45
1:D:328:GLN:NE2	1:E:517:LEU:N	2.62	0.45
1:D:440:GLN:CB	1:E:507:PHE:O	2.53	0.45
1:D:516:VAL:HG11	1:D:526:LEU:HD23	1.98	0.45
1:E:149:VAL:HA	1:E:152:LEU:HB2	1.98	0.45
1:F:207:VAL:HG12	1:F:208:ALA:H	1.80	0.45
1:F:226:ARG:O	1:F:230:MET:HG3	2.16	0.45
1:G:104:VAL:HG21	1:H:158:ARG:HD3	1.98	0.45
1:G:122:LEU:HB2	1:G:152:LEU:HD21	1.98	0.45
1:G:169:ILE:HG21	1:H:234:LEU:CD2	2.46	0.45
1:G:444:VAL:HG12	1:G:505:PRO:HG2	1.97	0.45
1:H:135:ASP:HA	1:I:110:VAL:CG2	2.26	0.45
1:H:476:ILE:HG12	1:H:574:ILE:HD11	1.96	0.45
1:H:495:LYS:HB2	1:H:498:THR:CB	2.43	0.45
1:J:109:ASN:CG	1:J:163:GLY:O	2.55	0.45
1:J:203:ALA:HB1	1:J:204:PRO:HD2	1.97	0.45
1:J:332:GLU:HG3	1:J:425:SER:HB3	1.98	0.45
1:K:203:ALA:HB1	1:K:204:PRO:HD2	1.97	0.45
1:K:254:ALA:HB1	1:K:296:ALA:HB1	1.98	0.45
1:K:261:LEU:HD12	1:K:303:LEU:CD2	2.45	0.45
1:K:337:GLU:OE2	1:K:564:ARG:HG3	2.16	0.45
1:K:599:ALA:CB	1:K:611:ARG:HD3	2.45	0.45
1:L:211:ARG:HA	1:M:243:ASN:ND2	2.30	0.45
1:M:168:ASP:OD1	1:M:224:ARG:HD2	2.16	0.45
1:M:518:VAL:CG2	1:M:524:VAL:HG21	2.46	0.45
1:O:495:LYS:HB2	1:O:498:THR:CB	2.43	0.45
1:A:119:LEU:HB2	1:A:132:VAL:HG11	1.97	0.45
1:A:167:VAL:HG21	1:B:230:MET:HE1	1.97	0.45
1:A:203:ALA:HB1	1:A:204:PRO:HD2	1.99	0.45
1:A:265:SER:CB	1:A:292:LEU:HD22	2.40	0.45
1:B:104:VAL:CG2	1:C:158:ARG:HD2	2.45	0.45
1:B:115:LEU:HB3	1:B:119:LEU:HG	1.99	0.45
1:B:119:LEU:HB2	1:B:132:VAL:HG11	1.97	0.45
1:B:466:VAL:HG23	1:B:466:VAL:O	2.16	0.45
1:C:116:ALA:HB1	1:C:120:ARG:NH2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:203:ALA:HB1	1:C:204:PRO:HD2	1.98	0.45
1:C:318:VAL:O	1:C:322:LEU:HB2	2.15	0.45
1:C:472:LEU:HD12	1:C:485:THR:O	2.16	0.45
1:D:211:ARG:NH1	1:E:176:SER:CB	2.80	0.45
1:D:395:GLY:O	1:E:358:THR:HA	2.16	0.45
1:E:226:ARG:O	1:E:230:MET:HG3	2.16	0.45
1:E:607:THR:HG22	1:E:608:SER:N	2.31	0.45
1:F:318:VAL:O	1:F:322:LEU:HB2	2.16	0.45
1:F:358:THR:HG22	1:F:360:PHE:CZ	2.51	0.45
1:G:205:LYS:HZ1	1:H:188:ASN:ND2	2.14	0.45
1:G:265:SER:CB	1:G:292:LEU:HD22	2.40	0.45
1:H:581:TYR:OH	1:I:524:VAL:HG21	2.16	0.45
1:J:472:LEU:HD12	1:J:485:THR:O	2.16	0.45
1:J:525:VAL:O	1:J:525:VAL:HG13	2.17	0.45
1:K:518:VAL:CG2	1:K:524:VAL:HG21	2.46	0.45
1:L:254:ALA:HB1	1:L:296:ALA:HB1	1.98	0.45
1:L:344:LEU:HB3	1:L:559:ASN:HB2	1.97	0.45
1:L:518:VAL:CG2	1:L:524:VAL:HG21	2.46	0.45
1:N:149:VAL:HA	1:N:152:LEU:HB2	1.97	0.45
1:N:209:ASP:O	1:N:213:ASN:HA	2.17	0.45
1:N:340:ASP:HB3	1:N:417:LYS:HD3	1.97	0.45
1:N:344:LEU:HB3	1:N:559:ASN:HB2	1.97	0.45
1:N:476:ILE:HG12	1:N:574:ILE:HD11	1.96	0.45
1:O:118:LEU:CD1	1:O:155:VAL:HG11	2.46	0.45
1:O:226:ARG:O	1:O:230:MET:HG3	2.16	0.45
1:A:176:SER:OG	1:B:308:GLN:HG2	2.17	0.45
1:A:596:GLN:CG	1:B:338:ILE:HD11	2.47	0.45
1:B:203:ALA:HB1	1:B:204:PRO:HD2	1.98	0.45
1:C:612:GLN:HG3	1:E:532:GLU:OE1	2.16	0.45
1:D:261:LEU:HD12	1:D:303:LEU:CD2	2.45	0.45
1:E:136:PRO:HB2	1:F:199:SER:CB	2.47	0.45
1:E:253:LYS:O	1:E:257:MET:HG2	2.16	0.45
1:E:426:ILE:CD1	1:F:512:VAL:HG23	2.46	0.45
1:F:122:LEU:HB2	1:F:152:LEU:HD21	1.98	0.45
1:F:136:PRO:HD2	1:G:110:VAL:HG13	1.99	0.45
1:F:249:LEU:HD13	1:F:257:MET:HG3	1.97	0.45
1:F:261:LEU:HD12	1:F:303:LEU:CD2	2.45	0.45
1:G:209:ASP:O	1:G:213:ASN:HA	2.16	0.45
1:H:122:LEU:HB2	1:H:152:LEU:HD21	1.99	0.45
1:H:149:VAL:HA	1:H:152:LEU:HB2	1.97	0.45
1:H:201:LEU:HB2	1:I:189:LYS:HE2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:202:LEU:CD1	1:I:189:LYS:HE2	2.45	0.45
1:H:253:LYS:HE2	1:H:253:LYS:HB3	1.64	0.45
1:H:332:GLU:HG3	1:H:425:SER:HB3	1.98	0.45
1:H:337:GLU:OE2	1:H:564:ARG:HG3	2.16	0.45
1:I:119:LEU:HD21	1:I:155:VAL:HG11	1.97	0.45
1:I:394:ASN:HB3	1:I:412:LEU:CD2	2.46	0.45
1:J:209:ASP:HB2	1:K:183:LEU:HD21	1.99	0.45
1:K:119:LEU:HD21	1:K:155:VAL:HG11	1.98	0.45
1:L:476:ILE:HG12	1:L:574:ILE:HD11	1.97	0.45
1:M:109:ASN:CG	1:M:163:GLY:O	2.55	0.45
1:N:136:PRO:HB3	1:O:199:SER:CB	2.46	0.45
1:A:209:ASP:HB2	1:B:183:LEU:HD11	1.99	0.45
1:A:468:THR:HG21	1:B:529:LEU:HD13	1.98	0.45
1:B:394:ASN:ND2	1:C:361:THR:CG2	2.79	0.45
1:C:258:VAL:CG2	1:C:296:ALA:CB	2.92	0.45
1:D:119:LEU:HD21	1:D:155:VAL:HG11	1.98	0.45
1:D:337:GLU:OE2	1:D:564:ARG:HG3	2.16	0.45
1:D:610:ASP:O	1:F:534:THR:HG21	2.17	0.45
1:E:189:LYS:HD3	1:E:193:SER:HB3	1.99	0.45
1:G:472:LEU:HD12	1:G:485:THR:O	2.16	0.45
1:H:250:LYS:HB3	1:I:478:GLU:H	1.82	0.45
1:H:438:VAL:HB	1:I:529:LEU:HD22	1.97	0.45
1:I:151:ARG:HG2	1:I:154:GLU:OE1	2.16	0.45
1:J:165:GLN:O	1:J:165:GLN:HG3	2.16	0.45
1:J:466:VAL:HG23	1:J:466:VAL:O	2.16	0.45
1:K:340:ASP:HB3	1:K:417:LYS:HD3	1.97	0.45
1:K:592:PHE:CE2	1:L:336:VAL:HG21	2.52	0.45
1:L:104:VAL:HG11	1:M:162:ALA:HB1	1.97	0.45
1:L:253:LYS:HB3	1:L:253:LYS:HE2	1.63	0.45
1:M:108:ARG:CD	1:N:220:GLU:OE1	2.65	0.45
1:N:226:ARG:O	1:N:230:MET:HG3	2.17	0.45
1:O:119:LEU:HD21	1:O:155:VAL:HG11	1.98	0.45
1:O:518:VAL:CG2	1:O:524:VAL:HG21	2.46	0.45
1:B:610:ASP:O	1:D:534:THR:HG21	2.16	0.45
1:C:251:TYR:OH	1:D:477:ASN:ND2	2.49	0.45
1:C:350:TRP:HZ2	1:C:553:LEU:HB3	1.78	0.45
1:E:254:ALA:HB1	1:E:296:ALA:HB1	1.98	0.45
1:E:326:ARG:HB2	1:E:429:MET:CE	2.47	0.45
1:E:495:LYS:HB2	1:E:498:THR:CB	2.45	0.45
1:E:581:TYR:CZ	1:F:524:VAL:HB	2.52	0.45
1:F:111:SER:HB3	1:G:198:THR:HG23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:337:GLU:OE2	1:F:564:ARG:HG3	2.16	0.45
1:F:599:ALA:CB	1:F:611:ARG:HD3	2.46	0.45
1:G:139:VAL:HG13	1:H:163:GLY:HA2	1.96	0.45
1:G:179:GLU:O	1:G:183:LEU:HG	2.15	0.45
1:I:158:ARG:HD3	1:I:158:ARG:HA	1.72	0.45
1:I:390:ALA:O	1:J:359:GLN:NE2	2.45	0.45
1:J:118:LEU:CD1	1:J:155:VAL:HG11	2.47	0.45
1:J:394:ASN:HD21	1:K:361:THR:CB	2.29	0.45
1:K:217:VAL:HG22	1:K:227:ILE:HG21	1.99	0.45
1:K:351:ALA:HA	1:K:357:GLY:HA2	1.97	0.45
1:L:207:VAL:HG21	1:M:186:ASN:HB2	1.98	0.45
1:L:582:SER:O	1:L:586:SER:N	2.40	0.45
1:M:495:LYS:HB2	1:M:498:THR:CB	2.44	0.45
1:M:516:VAL:HG11	1:M:526:LEU:HD23	1.98	0.45
1:N:495:LYS:HB2	1:N:498:THR:CB	2.43	0.45
1:A:162:ALA:C	1:O:139:VAL:CG2	2.67	0.45
1:A:168:ASP:OD1	1:A:224:ARG:HD2	2.17	0.45
1:A:176:SER:HB2	1:O:211:ARG:NH1	2.32	0.45
1:A:258:VAL:CG2	1:A:296:ALA:CB	2.91	0.45
1:A:525:VAL:HG13	1:A:525:VAL:O	2.16	0.45
1:A:592:PHE:CE2	1:B:336:VAL:HB	2.51	0.45
1:C:332:GLU:HG3	1:C:425:SER:HB3	1.98	0.45
1:C:394:ASN:OD1	1:D:360:PHE:HA	2.15	0.45
1:C:518:VAL:CG2	1:C:524:VAL:HG21	2.46	0.45
1:C:596:GLN:HG2	1:D:338:ILE:HD11	1.98	0.45
1:D:217:VAL:HG22	1:D:227:ILE:HG21	1.99	0.45
1:E:188:ASN:O	1:E:189:LYS:HB2	2.17	0.45
1:E:518:VAL:HG21	1:E:524:VAL:HG21	1.98	0.45
1:E:605:TYR:CE2	1:G:548:PRO:HB3	2.52	0.45
1:F:184:VAL:HG11	1:F:206:VAL:HG11	1.99	0.45
1:F:258:VAL:CG2	1:F:296:ALA:CB	2.91	0.45
1:F:293:ALA:HB3	1:F:306:THR:CG2	2.46	0.45
1:F:472:LEU:HD12	1:F:485:THR:O	2.16	0.45
1:G:518:VAL:CG2	1:G:524:VAL:HG21	2.46	0.45
1:H:599:ALA:CB	1:H:611:ARG:HD3	2.44	0.45
1:I:384:THR:O	1:I:388:LYS:HG3	2.15	0.45
1:I:437:ASN:HB3	1:J:511:THR:HB	1.98	0.45
1:I:581:TYR:CE2	1:J:524:VAL:HG11	2.51	0.45
1:J:188:ASN:O	1:J:189:LYS:HB2	2.16	0.45
1:L:203:ALA:HB1	1:L:204:PRO:HD2	1.97	0.45
1:N:169:ILE:HG21	1:O:234:LEU:HD21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:168:ASP:OD1	1:C:224:ARG:HD2	2.17	0.45
1:E:607:THR:O	1:E:609:PRO:HD3	2.12	0.45
1:F:176:SER:OG	1:G:308:GLN:HG2	2.16	0.45
1:F:339:ALA:HA	1:F:563:LYS:O	2.17	0.45
1:G:211:ARG:HH12	1:I:308:GLN:HG2	1.82	0.45
1:G:337:GLU:OE2	1:G:564:ARG:HG3	2.16	0.45
1:G:441:GLU:HB2	1:H:507:PHE:HB2	1.99	0.45
1:G:466:VAL:HG23	1:G:466:VAL:O	2.16	0.45
1:H:318:VAL:O	1:H:322:LEU:HB2	2.16	0.45
1:I:253:LYS:O	1:I:257:MET:HG2	2.17	0.45
1:L:109:ASN:CG	1:L:163:GLY:O	2.55	0.45
1:L:119:LEU:HD21	1:L:155:VAL:HG11	1.99	0.45
1:L:168:ASP:OD1	1:L:224:ARG:HD2	2.17	0.45
1:L:265:SER:CB	1:L:292:LEU:HD22	2.39	0.45
1:N:119:LEU:HD21	1:N:155:VAL:HG11	1.99	0.45
1:O:149:VAL:HA	1:O:152:LEU:HB2	1.97	0.45
1:A:162:ALA:CB	1:O:104:VAL:HG11	2.47	0.45
1:A:326:ARG:HB2	1:A:429:MET:CE	2.46	0.45
1:B:165:GLN:O	1:B:165:GLN:HG3	2.16	0.45
1:D:226:ARG:O	1:D:230:MET:HG3	2.16	0.45
1:E:339:ALA:HA	1:E:563:LYS:O	2.17	0.45
1:E:581:TYR:CD2	1:F:524:VAL:HG11	2.51	0.45
1:F:168:ASP:OD1	1:F:224:ARG:HD2	2.17	0.45
1:F:179:GLU:O	1:F:183:LEU:HG	2.16	0.45
1:G:599:ALA:CB	1:G:611:ARG:HD3	2.46	0.45
1:G:607:THR:HG22	1:G:608:SER:N	2.32	0.45
1:H:293:ALA:HB3	1:H:306:THR:CG2	2.47	0.45
1:H:326:ARG:HD2	1:H:430:ASP:OD1	2.16	0.45
1:I:318:VAL:O	1:I:322:LEU:HB2	2.16	0.45
1:I:337:GLU:HB2	1:I:510:ARG:NH2	2.31	0.45
1:J:394:ASN:ND2	1:K:361:THR:CG2	2.79	0.45
1:J:592:PHE:CE2	1:K:336:VAL:HG21	2.52	0.45
1:K:209:ASP:O	1:K:213:ASN:HA	2.17	0.45
1:L:179:GLU:O	1:L:183:LEU:HG	2.16	0.45
1:L:258:VAL:CG2	1:L:296:ALA:CB	2.93	0.45
1:L:261:LEU:HD12	1:L:303:LEU:CD2	2.44	0.45
1:N:118:LEU:CD1	1:N:155:VAL:HG11	2.47	0.45
1:N:141:LEU:O	1:N:141:LEU:HD12	2.16	0.45
1:O:473:THR:O	1:O:473:THR:CG2	2.65	0.45
1:A:180:MET:O	1:A:184:VAL:HG23	2.17	0.45
1:D:332:GLU:HG3	1:D:425:SER:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:118:LEU:CD1	1:E:155:VAL:HG11	2.46	0.45
1:E:293:ALA:HB3	1:E:306:THR:CG2	2.47	0.45
1:E:428:THR:HG21	1:E:474:PRO:CD	2.47	0.45
1:F:253:LYS:O	1:F:257:MET:HG2	2.17	0.45
1:H:203:ALA:HB1	1:H:204:PRO:HD2	1.98	0.45
1:H:466:VAL:HG23	1:H:466:VAL:O	2.16	0.45
1:H:473:THR:O	1:H:473:THR:CG2	2.65	0.45
1:I:258:VAL:HG22	1:I:303:LEU:HD11	1.98	0.45
1:J:217:VAL:HG22	1:J:227:ILE:HG21	1.99	0.45
1:J:610:ASP:O	1:L:534:THR:HG21	2.17	0.45
1:K:350:TRP:HZ2	1:K:553:LEU:HB3	1.79	0.45
1:L:226:ARG:O	1:L:230:MET:HG3	2.17	0.45
1:L:495:LYS:HB2	1:L:498:THR:CB	2.44	0.45
1:M:165:GLN:O	1:M:165:GLN:HG3	2.17	0.45
1:M:254:ALA:HB1	1:M:296:ALA:HB1	1.98	0.45
1:M:592:PHE:CE2	1:N:336:VAL:HG21	2.52	0.45
1:N:122:LEU:HA	1:N:125:ASN:HB2	1.97	0.45
1:N:211:ARG:NH1	1:O:176:SER:HB2	2.31	0.45
1:O:179:GLU:O	1:O:183:LEU:HG	2.17	0.45
1:O:209:ASP:O	1:O:213:ASN:HA	2.17	0.45
1:A:209:ASP:O	1:A:213:ASN:HA	2.16	0.45
1:B:109:ASN:CG	1:B:163:GLY:O	2.55	0.45
1:C:292:LEU:HD12	1:C:311:VAL:CG1	2.27	0.45
1:C:337:GLU:HB2	1:C:510:ARG:NH2	2.32	0.45
1:D:189:LYS:HD3	1:D:193:SER:HB3	1.99	0.45
1:D:592:PHE:CZ	1:E:336:VAL:CG2	3.00	0.45
1:E:258:VAL:CG2	1:E:296:ALA:CB	2.93	0.45
1:E:301:ASN:ND2	1:F:431:ASN:OD1	2.50	0.45
1:E:511:THR:HG22	1:E:512:VAL:N	2.32	0.45
1:G:115:LEU:HB3	1:G:119:LEU:HG	1.99	0.45
1:G:253:LYS:HE2	1:G:253:LYS:HB3	1.66	0.45
1:G:473:THR:O	1:G:473:THR:CG2	2.65	0.45
1:H:258:VAL:CG2	1:H:296:ALA:CB	2.91	0.45
1:I:294:ILE:CG2	1:I:303:LEU:HD11	2.47	0.45
1:K:495:LYS:HB2	1:K:498:THR:CB	2.43	0.45
1:K:607:THR:HG22	1:K:608:SER:N	2.33	0.45
1:L:115:LEU:HB3	1:L:119:LEU:HG	1.99	0.45
1:L:473:THR:O	1:L:473:THR:CG2	2.65	0.45
1:N:168:ASP:OD1	1:N:224:ARG:HD2	2.17	0.45
1:A:136:PRO:HD2	1:B:110:VAL:HG13	1.99	0.44
1:A:253:LYS:HE2	1:A:253:LYS:HB3	1.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:328:GLN:HE21	1:B:517:LEU:CA	2.29	0.44
1:B:147:ALA:O	1:B:150:ASN:HB2	2.17	0.44
1:B:179:GLU:O	1:B:183:LEU:HG	2.17	0.44
1:B:226:ARG:O	1:B:230:MET:HG3	2.17	0.44
1:C:122:LEU:HA	1:C:125:ASN:HB2	1.99	0.44
1:C:138:ASN:ND2	1:D:198:THR:O	2.50	0.44
1:C:344:LEU:HB3	1:C:559:ASN:HB2	1.98	0.44
1:D:203:ALA:HB1	1:D:204:PRO:HD2	1.97	0.44
1:E:168:ASP:OD1	1:E:224:ARG:HD2	2.17	0.44
1:E:340:ASP:HB3	1:E:417:LYS:HD3	1.97	0.44
1:E:472:LEU:HD21	1:E:484:LEU:HD22	1.99	0.44
1:F:337:GLU:HB2	1:F:510:ARG:NH2	2.32	0.44
1:G:339:ALA:HA	1:G:563:LYS:O	2.17	0.44
1:H:339:ALA:HA	1:H:563:LYS:O	2.18	0.44
1:H:518:VAL:CG2	1:H:524:VAL:HG21	2.46	0.44
1:I:154:GLU:O	1:I:158:ARG:HB2	2.16	0.44
1:I:339:ALA:HA	1:I:563:LYS:O	2.17	0.44
1:J:168:ASP:OD1	1:J:224:ARG:HD2	2.16	0.44
1:J:495:LYS:HB2	1:J:498:THR:CB	2.44	0.44
1:L:180:MET:O	1:L:184:VAL:HG23	2.16	0.44
1:L:442:VAL:HA	1:M:506:THR:HG22	1.98	0.44
1:M:394:ASN:ND2	1:N:361:THR:CG2	2.78	0.44
1:N:122:LEU:HB2	1:N:152:LEU:HD21	1.99	0.44
1:O:265:SER:CB	1:O:292:LEU:HD22	2.40	0.44
1:O:599:ALA:CB	1:O:611:ARG:HD3	2.44	0.44
1:A:466:VAL:HG23	1:A:466:VAL:O	2.17	0.44
1:B:118:LEU:CD1	1:B:155:VAL:HG11	2.47	0.44
1:B:592:PHE:CE2	1:C:336:VAL:HG21	2.52	0.44
1:D:115:LEU:CD2	1:D:159:VAL:HG21	2.45	0.44
1:D:326:ARG:HB2	1:D:429:MET:CE	2.47	0.44
1:D:444:VAL:HG21	1:D:464:LYS:HE3	1.99	0.44
1:E:510:ARG:HD2	1:E:566:LEU:HD21	1.97	0.44
1:F:332:GLU:HG3	1:F:425:SER:HB3	1.99	0.44
1:G:136:PRO:HD2	1:H:110:VAL:CG2	2.46	0.44
1:G:249:LEU:HD13	1:G:257:MET:HG3	1.98	0.44
1:G:351:ALA:HA	1:G:357:GLY:HA2	1.98	0.44
1:G:438:VAL:HB	1:H:529:LEU:HD23	1.99	0.44
1:H:218:SER:CB	1:I:187:LEU:HB2	2.47	0.44
1:I:253:LYS:HB3	1:I:253:LYS:HE2	1.60	0.44
1:K:118:LEU:CD1	1:K:155:VAL:HG11	2.46	0.44
1:K:135:ASP:HB3	1:L:110:VAL:CG2	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:207:VAL:CG1	1:L:186:ASN:HD22	2.30	0.44
1:L:209:ASP:O	1:L:213:ASN:HA	2.17	0.44
1:L:394:ASN:HD21	1:M:361:THR:CB	2.29	0.44
1:M:461:ILE:CG1	1:N:445:GLN:HB2	2.45	0.44
1:O:254:ALA:HB1	1:O:296:ALA:HB1	1.98	0.44
1:O:525:VAL:O	1:O:525:VAL:HG13	2.17	0.44
1:A:119:LEU:HD21	1:A:155:VAL:HG11	1.98	0.44
1:A:207:VAL:CG2	1:B:186:ASN:CB	2.95	0.44
1:A:428:THR:HG21	1:A:474:PRO:CD	2.47	0.44
1:A:437:ASN:HB3	1:B:511:THR:HB	1.98	0.44
1:B:169:ILE:HG21	1:C:234:LEU:HD21	2.00	0.44
1:C:115:LEU:HB3	1:C:119:LEU:HG	2.00	0.44
1:C:179:GLU:O	1:C:183:LEU:HG	2.17	0.44
1:C:394:ASN:ND2	1:D:361:THR:CG2	2.77	0.44
1:D:209:ASP:O	1:D:213:ASN:HA	2.16	0.44
1:D:339:ALA:HA	1:D:563:LYS:O	2.18	0.44
1:F:384:THR:O	1:F:388:LYS:HG3	2.17	0.44
1:G:337:GLU:HB2	1:G:510:ARG:NH2	2.32	0.44
1:H:167:VAL:C	1:I:233:GLN:OE1	2.53	0.44
1:H:180:MET:CE	1:H:234:LEU:HB2	2.47	0.44
1:H:254:ALA:HB1	1:H:296:ALA:HB1	1.98	0.44
1:I:329:VAL:HG22	1:I:574:ILE:CG1	2.45	0.44
1:I:525:VAL:HG13	1:I:525:VAL:O	2.17	0.44
1:J:226:ARG:O	1:J:230:MET:HG3	2.18	0.44
1:J:253:LYS:HE2	1:J:253:LYS:HB3	1.63	0.44
1:J:328:GLN:NE2	1:K:517:LEU:N	2.63	0.44
1:K:226:ARG:O	1:K:230:MET:HG3	2.17	0.44
1:K:326:ARG:HB2	1:K:429:MET:CE	2.48	0.44
1:L:328:GLN:NE2	1:M:517:LEU:C	2.63	0.44
1:M:179:GLU:O	1:M:183:LEU:HG	2.17	0.44
1:M:511:THR:HG22	1:M:512:VAL:N	2.33	0.44
1:N:438:VAL:HB	1:O:529:LEU:HD22	2.00	0.44
1:A:344:LEU:HB3	1:A:559:ASN:HB2	1.97	0.44
1:B:209:ASP:O	1:B:213:ASN:HA	2.17	0.44
1:C:209:ASP:O	1:C:213:ASN:HA	2.17	0.44
1:C:211:ARG:NH1	1:D:176:SER:CB	2.81	0.44
1:C:326:ARG:HB2	1:C:429:MET:CE	2.47	0.44
1:C:516:VAL:HG11	1:C:526:LEU:HD23	1.98	0.44
1:E:503:LEU:HD12	1:E:503:LEU:HA	1.85	0.44
1:F:149:VAL:HA	1:F:152:LEU:HB2	1.99	0.44
1:F:468:THR:HG21	1:G:529:LEU:CD1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:111:SER:HB2	1:H:198:THR:HA	1.95	0.44
1:G:293:ALA:HB3	1:G:306:THR:CG2	2.47	0.44
1:I:428:THR:HG21	1:I:474:PRO:CD	2.47	0.44
1:J:119:LEU:HD21	1:J:155:VAL:HG11	1.99	0.44
1:J:516:VAL:HG11	1:J:526:LEU:HD23	1.99	0.44
1:K:253:LYS:HB3	1:K:253:LYS:HE2	1.63	0.44
1:L:169:ILE:HG21	1:M:234:LEU:HD21	1.99	0.44
1:L:217:VAL:HG22	1:L:227:ILE:HG21	2.00	0.44
1:L:326:ARG:HB2	1:L:429:MET:CE	2.48	0.44
1:L:339:ALA:HA	1:L:563:LYS:O	2.17	0.44
1:L:607:THR:HG22	1:L:608:SER:N	2.32	0.44
1:M:122:LEU:HB2	1:M:152:LEU:HD21	1.98	0.44
1:M:523:THR:OG1	1:M:571:ARG:HB2	2.17	0.44
1:N:254:ALA:HB1	1:N:296:ALA:HB1	1.98	0.44
1:O:115:LEU:HB3	1:O:119:LEU:HG	2.00	0.44
1:O:122:LEU:HA	1:O:125:ASN:HB2	1.98	0.44
1:C:111:SER:HB3	1:D:198:THR:HG23	1.99	0.44
1:C:118:LEU:CD1	1:C:155:VAL:HG11	2.47	0.44
1:D:118:LEU:CD1	1:D:155:VAL:HG11	2.48	0.44
1:D:122:LEU:HB2	1:D:152:LEU:HD21	1.99	0.44
1:D:207:VAL:HG13	1:E:186:ASN:HD22	1.82	0.44
1:D:293:ALA:HB3	1:D:306:THR:CG2	2.48	0.44
1:F:340:ASP:HB2	1:F:417:LYS:HD3	1.99	0.44
1:G:332:GLU:HG3	1:G:425:SER:HB3	1.99	0.44
1:H:607:THR:HG22	1:H:608:SER:N	2.32	0.44
1:J:116:ALA:HB1	1:J:120:ARG:NH2	2.32	0.44
1:J:251:TYR:OH	1:K:477:ASN:ND2	2.51	0.44
1:J:607:THR:HG22	1:J:608:SER:N	2.33	0.44
1:M:217:VAL:HG22	1:M:227:ILE:HG21	1.99	0.44
1:M:226:ARG:O	1:M:230:MET:HG3	2.17	0.44
1:M:607:THR:HG22	1:M:608:SER:N	2.33	0.44
1:O:122:LEU:HB2	1:O:152:LEU:HD21	1.98	0.44
1:O:141:LEU:HD12	1:O:141:LEU:O	2.17	0.44
1:O:217:VAL:HG22	1:O:227:ILE:HG21	1.99	0.44
1:A:179:GLU:O	1:A:183:LEU:HG	2.17	0.44
1:A:226:ARG:O	1:A:230:MET:HG3	2.17	0.44
1:B:211:ARG:NH1	1:C:176:SER:CB	2.81	0.44
1:B:525:VAL:O	1:B:525:VAL:HG13	2.17	0.44
1:C:217:VAL:HG22	1:C:227:ILE:HG21	2.00	0.44
1:C:226:ARG:O	1:C:230:MET:HG3	2.17	0.44
1:C:261:LEU:HD12	1:C:303:LEU:CD2	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:339:ALA:HA	1:C:563:LYS:O	2.17	0.44
1:C:473:THR:O	1:C:473:THR:CG2	2.65	0.44
1:C:599:ALA:CB	1:C:611:ARG:HD3	2.44	0.44
1:D:412:LEU:CD1	1:E:360:PHE:HE1	2.31	0.44
1:E:122:LEU:HB2	1:E:152:LEU:HD21	2.00	0.44
1:E:136:PRO:HB2	1:F:199:SER:HB2	1.99	0.44
1:E:169:ILE:HD12	1:E:216:VAL:HG22	1.98	0.44
1:F:251:TYR:OH	1:G:477:ASN:ND2	2.51	0.44
1:F:254:ALA:HB1	1:F:296:ALA:HB1	1.98	0.44
1:F:394:ASN:ND2	1:G:361:THR:HG22	2.33	0.44
1:F:483:LEU:HB2	1:F:517:LEU:HD12	2.00	0.44
1:G:147:ALA:O	1:G:150:ASN:HB2	2.18	0.44
1:G:168:ASP:OD1	1:G:224:ARG:HD2	2.18	0.44
1:I:113:ARG:CD	1:J:197:ASN:HB3	2.47	0.44
1:I:133:HIS:CG	1:I:134:TYR:H	2.36	0.44
1:I:365:PRO:HB3	1:I:389:LEU:HD11	1.99	0.44
1:J:394:ASN:OD1	1:K:360:PHE:HA	2.18	0.44
1:J:442:VAL:HA	1:K:506:THR:HG22	2.00	0.44
1:J:523:THR:OG1	1:J:571:ARG:HB2	2.18	0.44
1:K:179:GLU:O	1:K:183:LEU:HG	2.17	0.44
1:K:337:GLU:HB2	1:K:510:ARG:NH2	2.32	0.44
1:L:116:ALA:HB1	1:L:120:ARG:NH2	2.32	0.44
1:L:147:ALA:O	1:L:150:ASN:HB2	2.18	0.44
1:L:337:GLU:HB2	1:L:510:ARG:NH2	2.32	0.44
1:M:115:LEU:HB3	1:M:119:LEU:HG	2.00	0.44
1:M:119:LEU:HD21	1:M:155:VAL:HG11	1.99	0.44
1:M:258:VAL:CG2	1:M:296:ALA:CB	2.93	0.44
1:M:337:GLU:HB2	1:M:510:ARG:NH2	2.32	0.44
1:M:525:VAL:O	1:M:525:VAL:HG13	2.17	0.44
1:N:424:PRO:HA	1:O:528:GLY:O	2.17	0.44
1:A:523:THR:OG1	1:A:571:ARG:HB2	2.18	0.44
1:C:188:ASN:O	1:C:189:LYS:HB2	2.18	0.44
1:C:300:THR:HG23	1:D:324:ILE:HD11	2.00	0.44
1:D:473:THR:O	1:D:473:THR:CG2	2.65	0.44
1:F:518:VAL:CG2	1:F:524:VAL:HG21	2.48	0.44
1:H:137:SER:OG	1:I:163:GLY:C	2.55	0.44
1:H:444:VAL:HG21	1:H:464:LYS:HE3	1.99	0.44
1:J:111:SER:HB2	1:K:198:THR:HA	1.98	0.44
1:J:424:PRO:HA	1:K:528:GLY:O	2.17	0.44
1:J:581:TYR:HE2	1:K:524:VAL:HG11	1.81	0.44
1:K:461:ILE:HG21	1:L:503:LEU:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:116:ALA:HB1	1:M:120:ARG:NH2	2.32	0.44
1:M:384:THR:O	1:M:388:LYS:HG3	2.18	0.44
1:N:217:VAL:HG22	1:N:227:ILE:HG21	1.99	0.44
1:N:337:GLU:HB2	1:N:510:ARG:NH2	2.32	0.44
1:N:607:THR:HG22	1:N:608:SER:N	2.33	0.44
1:A:337:GLU:HB2	1:A:510:ARG:NH2	2.32	0.44
1:A:511:THR:HG22	1:A:512:VAL:N	2.32	0.44
1:B:258:VAL:CG2	1:B:296:ALA:CB	2.92	0.44
1:B:339:ALA:O	1:B:418:SER:N	2.44	0.44
1:C:165:GLN:HG3	1:C:165:GLN:O	2.18	0.44
1:C:189:LYS:HD3	1:C:193:SER:HB3	2.00	0.44
1:C:211:ARG:NH1	1:D:176:SER:HB2	2.33	0.44
1:D:253:LYS:HB3	1:D:253:LYS:HE2	1.62	0.44
1:D:518:VAL:CG2	1:D:524:VAL:HG21	2.47	0.44
1:D:525:VAL:HG13	1:D:525:VAL:O	2.18	0.44
1:D:529:LEU:CD2	1:D:564:ARG:HH21	2.31	0.44
1:F:427:VAL:O	1:G:516:VAL:HG12	2.18	0.44
1:F:444:VAL:HG12	1:F:505:PRO:HG2	1.98	0.44
1:F:607:THR:HG22	1:F:608:SER:N	2.33	0.44
1:H:108:ARG:CA	1:I:220:GLU:OE1	2.62	0.44
1:H:133:HIS:NE2	1:I:115:LEU:HD23	2.32	0.44
1:I:397:ALA:O	1:J:357:GLY:N	2.33	0.44
1:J:582:SER:O	1:J:586:SER:N	2.40	0.44
1:K:168:ASP:OD1	1:K:224:ARG:HD2	2.17	0.44
1:K:202:LEU:HD12	1:L:189:LYS:HE2	2.00	0.44
1:K:511:THR:HG22	1:K:512:VAL:N	2.33	0.44
1:L:511:THR:HG22	1:L:512:VAL:N	2.32	0.44
1:L:516:VAL:HG11	1:L:526:LEU:HD23	1.98	0.44
1:L:599:ALA:CB	1:L:611:ARG:HD3	2.44	0.44
1:O:180:MET:O	1:O:184:VAL:HG23	2.18	0.44
1:B:217:VAL:HG22	1:B:227:ILE:HG21	2.00	0.44
1:B:337:GLU:HB2	1:B:510:ARG:NH2	2.32	0.44
1:C:119:LEU:HD21	1:C:155:VAL:HG11	1.99	0.44
1:C:147:ALA:O	1:C:150:ASN:HB2	2.18	0.44
1:C:438:VAL:HB	1:D:529:LEU:HD22	1.99	0.44
1:D:139:VAL:HG21	1:E:162:ALA:HB1	1.99	0.44
1:D:445:GLN:HE21	1:E:503:LEU:HD21	1.81	0.44
1:F:265:SER:CB	1:F:292:LEU:HD22	2.40	0.44
1:F:326:ARG:HD2	1:F:430:ASP:OD1	2.17	0.44
1:F:461:ILE:HG21	1:G:503:LEU:HB3	1.99	0.44
1:G:254:ALA:O	1:G:258:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:326:ARG:HD2	1:G:430:ASP:OD1	2.18	0.44
1:G:525:VAL:O	1:G:525:VAL:HG13	2.18	0.44
1:I:169:ILE:HD12	1:I:216:VAL:HG22	1.99	0.44
1:J:337:GLU:HB2	1:J:510:ARG:NH2	2.32	0.44
1:J:339:ALA:HA	1:J:563:LYS:O	2.17	0.44
1:J:529:LEU:CD2	1:J:564:ARG:HH21	2.31	0.44
1:K:111:SER:HB3	1:L:198:THR:CG2	2.48	0.44
1:K:115:LEU:HB3	1:K:119:LEU:HG	2.00	0.44
1:L:384:THR:O	1:L:388:LYS:HG3	2.18	0.44
1:N:115:LEU:HB3	1:N:119:LEU:HG	2.00	0.44
1:A:384:THR:O	1:A:388:LYS:HG3	2.18	0.43
1:B:339:ALA:HA	1:B:563:LYS:O	2.18	0.43
1:B:384:THR:O	1:B:388:LYS:HG3	2.18	0.43
1:B:511:THR:HG22	1:B:512:VAL:N	2.33	0.43
1:B:529:LEU:CD2	1:B:564:ARG:HH21	2.31	0.43
1:D:115:LEU:HB3	1:D:119:LEU:HG	2.00	0.43
1:D:384:THR:O	1:D:388:LYS:HG3	2.17	0.43
1:E:265:SER:CB	1:E:292:LEU:HD22	2.41	0.43
1:E:337:GLU:HB2	1:E:510:ARG:HH22	1.83	0.43
1:E:426:ILE:HD11	1:F:512:VAL:HG23	1.99	0.43
1:F:115:LEU:HB3	1:F:119:LEU:HG	1.99	0.43
1:F:529:LEU:CD2	1:F:564:ARG:HH21	2.31	0.43
1:G:115:LEU:CD2	1:G:159:VAL:HG21	2.41	0.43
1:G:136:PRO:HD3	1:H:110:VAL:CG1	2.48	0.43
1:G:437:ASN:HB3	1:H:511:THR:HB	1.99	0.43
1:H:118:LEU:CD1	1:H:155:VAL:HG11	2.48	0.43
1:H:442:VAL:HA	1:I:506:THR:HG22	2.00	0.43
1:H:525:VAL:O	1:H:525:VAL:HG13	2.18	0.43
1:I:442:VAL:HA	1:J:506:THR:HG22	2.00	0.43
1:I:495:LYS:HB2	1:I:498:THR:CB	2.44	0.43
1:J:115:LEU:HB3	1:J:119:LEU:HG	2.00	0.43
1:J:209:ASP:O	1:J:213:ASN:HA	2.17	0.43
1:K:293:ALA:HB3	1:K:306:THR:CG2	2.48	0.43
1:K:339:ALA:HA	1:K:563:LYS:O	2.18	0.43
1:L:525:VAL:HG13	1:L:525:VAL:O	2.17	0.43
1:L:529:LEU:CD2	1:L:564:ARG:HH21	2.31	0.43
1:M:209:ASP:O	1:M:213:ASN:HA	2.17	0.43
1:N:592:PHE:CE2	1:O:336:VAL:HG21	2.53	0.43
1:O:511:THR:HG22	1:O:512:VAL:N	2.33	0.43
1:O:607:THR:HG22	1:O:608:SER:N	2.33	0.43
1:A:118:LEU:CD1	1:A:155:VAL:HG11	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:338:ILE:HD11	1:O:596:GLN:HG2	2.00	0.43
1:B:119:LEU:HD21	1:B:155:VAL:HG11	1.99	0.43
1:B:473:THR:O	1:B:473:THR:CG2	2.65	0.43
1:B:523:THR:OG1	1:B:571:ARG:HB2	2.18	0.43
1:C:394:ASN:HD21	1:D:361:THR:CB	2.31	0.43
1:C:398:ALA:HA	1:D:356:GLY:HA3	2.00	0.43
1:D:337:GLU:HB2	1:D:510:ARG:NH2	2.32	0.43
1:D:428:THR:HG21	1:D:474:PRO:CD	2.48	0.43
1:E:119:LEU:HD21	1:E:155:VAL:HG11	2.00	0.43
1:E:523:THR:OG1	1:E:571:ARG:HB2	2.18	0.43
1:E:611:ARG:NH2	1:F:417:LYS:CD	2.68	0.43
1:F:254:ALA:O	1:F:258:VAL:HG23	2.19	0.43
1:G:119:LEU:HB2	1:G:132:VAL:HG11	1.99	0.43
1:G:529:LEU:CD2	1:G:564:ARG:HH21	2.31	0.43
1:H:529:LEU:CD2	1:H:564:ARG:HH21	2.31	0.43
1:I:262:LYS:O	1:I:265:SER:OG	2.34	0.43
1:I:529:LEU:CD2	1:I:564:ARG:HH21	2.31	0.43
1:L:104:VAL:HG11	1:M:162:ALA:CB	2.48	0.43
1:L:165:GLN:HG3	1:L:165:GLN:O	2.18	0.43
1:O:339:ALA:HA	1:O:563:LYS:O	2.17	0.43
1:O:384:THR:O	1:O:388:LYS:HG3	2.18	0.43
1:O:529:LEU:CD2	1:O:564:ARG:HH21	2.31	0.43
1:A:147:ALA:O	1:A:150:ASN:HB2	2.18	0.43
1:A:299:THR:HB	1:B:326:ARG:CZ	2.48	0.43
1:B:428:THR:HG21	1:B:474:PRO:CD	2.48	0.43
1:C:104:VAL:CG2	1:D:158:ARG:HD2	2.47	0.43
1:C:428:THR:HG21	1:C:474:PRO:CD	2.48	0.43
1:D:133:HIS:CG	1:D:134:TYR:H	2.36	0.43
1:D:394:ASN:ND2	1:E:361:THR:HB	2.33	0.43
1:E:133:HIS:CG	1:E:134:TYR:H	2.37	0.43
1:E:423:THR:HG22	1:E:423:THR:O	2.18	0.43
1:E:570:ILE:HG23	1:E:570:ILE:O	2.19	0.43
1:F:136:PRO:HD2	1:G:110:VAL:CG1	2.48	0.43
1:G:254:ALA:HB1	1:G:296:ALA:HB1	1.99	0.43
1:G:412:LEU:CD1	1:H:540:LYS:O	2.64	0.43
1:G:468:THR:HG21	1:H:529:LEU:CD1	2.48	0.43
1:H:384:THR:O	1:H:388:LYS:HG3	2.18	0.43
1:H:441:GLU:HB2	1:I:507:PHE:HB2	2.00	0.43
1:H:511:THR:HG22	1:H:512:VAL:N	2.33	0.43
1:H:585:SER:HB2	1:I:524:VAL:HA	2.00	0.43
1:I:189:LYS:HD3	1:I:193:SER:CB	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:394:ASN:OD1	1:J:361:THR:HB	2.19	0.43
1:J:147:ALA:O	1:J:150:ASN:HB2	2.18	0.43
1:K:107:VAL:CG2	1:K:112:VAL:HG12	2.48	0.43
1:K:122:LEU:HB2	1:K:152:LEU:HD21	1.99	0.43
1:K:207:VAL:HG13	1:L:186:ASN:HD22	1.82	0.43
1:K:438:VAL:HB	1:L:529:LEU:HD22	2.00	0.43
1:K:525:VAL:HG13	1:K:525:VAL:O	2.18	0.43
1:M:147:ALA:O	1:M:150:ASN:HB2	2.18	0.43
1:M:174:TYR:CE1	1:M:237:GLU:HB3	2.53	0.43
1:M:412:LEU:CD1	1:N:360:PHE:HE1	2.30	0.43
1:M:461:ILE:CD1	1:N:445:GLN:O	2.65	0.43
1:N:136:PRO:HB3	1:O:199:SER:OG	2.18	0.43
1:N:444:VAL:HG21	1:N:464:LYS:HE3	1.99	0.43
1:N:525:VAL:HG13	1:N:525:VAL:O	2.18	0.43
1:N:529:LEU:CD2	1:N:564:ARG:HH21	2.31	0.43
1:O:253:LYS:O	1:O:257:MET:HG2	2.18	0.43
1:A:217:VAL:HG22	1:A:227:ILE:HG21	2.01	0.43
1:A:339:ALA:HA	1:A:563:LYS:O	2.17	0.43
1:A:607:THR:HG22	1:A:608:SER:N	2.32	0.43
1:D:511:THR:HG22	1:D:512:VAL:N	2.34	0.43
1:D:617:TYR:HE1	1:E:523:THR:O	2.01	0.43
1:E:292:LEU:HD12	1:E:311:VAL:CG1	2.26	0.43
1:H:211:ARG:HA	1:I:243:ASN:ND2	2.33	0.43
1:H:582:SER:O	1:H:586:SER:N	2.40	0.43
1:I:523:THR:OG1	1:I:571:ARG:HB2	2.18	0.43
1:J:438:VAL:HB	1:K:529:LEU:HD22	2.01	0.43
1:K:265:SER:CB	1:K:292:LEU:HD22	2.40	0.43
1:M:138:ASN:ND2	1:N:198:THR:O	2.48	0.43
1:M:251:TYR:OH	1:N:477:ASN:ND2	2.51	0.43
1:M:339:ALA:HA	1:M:563:LYS:O	2.18	0.43
1:M:529:LEU:CD2	1:M:564:ARG:HH21	2.31	0.43
1:N:179:GLU:O	1:N:183:LEU:HG	2.18	0.43
1:N:293:ALA:HB3	1:N:306:THR:CG2	2.48	0.43
1:N:339:ALA:HA	1:N:563:LYS:O	2.17	0.43
1:N:444:VAL:HG12	1:N:505:PRO:HG2	2.00	0.43
1:O:293:ALA:HB3	1:O:306:THR:CG2	2.48	0.43
1:A:529:LEU:CD2	1:A:564:ARG:HH21	2.31	0.43
1:C:104:VAL:HG21	1:D:158:ARG:HD2	2.00	0.43
1:D:107:VAL:CG2	1:D:112:VAL:HG12	2.48	0.43
1:E:254:ALA:O	1:E:258:VAL:HG23	2.18	0.43
1:E:529:LEU:CD2	1:E:564:ARG:HH21	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:585:SER:HB2	1:F:524:VAL:HA	2.01	0.43
1:F:298:GLU:O	1:G:431:ASN:HB3	2.18	0.43
1:F:426:ILE:HA	1:G:527:GLY:HA2	1.99	0.43
1:G:149:VAL:HA	1:G:152:LEU:HB2	2.00	0.43
1:G:483:LEU:HB2	1:G:517:LEU:HD12	2.01	0.43
1:G:518:VAL:HG21	1:G:524:VAL:HG21	2.00	0.43
1:J:262:LYS:O	1:J:265:SER:OG	2.34	0.43
1:J:428:THR:HG21	1:J:474:PRO:CD	2.48	0.43
1:N:136:PRO:HB2	1:O:202:LEU:HD22	2.01	0.43
1:N:189:LYS:HD3	1:N:193:SER:HB3	2.00	0.43
1:N:211:ARG:HA	1:O:243:ASN:HD21	1.81	0.43
1:N:251:TYR:OH	1:O:477:ASN:ND2	2.51	0.43
1:N:442:VAL:HA	1:O:506:THR:HG22	1.99	0.43
1:N:582:SER:O	1:N:586:SER:N	2.40	0.43
1:O:168:ASP:OD1	1:O:224:ARG:HD2	2.18	0.43
1:A:165:GLN:HG3	1:A:165:GLN:O	2.18	0.43
1:B:188:ASN:O	1:B:189:LYS:HB2	2.18	0.43
1:B:253:LYS:O	1:B:257:MET:HG2	2.19	0.43
1:C:511:THR:HG22	1:C:512:VAL:N	2.34	0.43
1:C:525:VAL:HG13	1:C:525:VAL:O	2.18	0.43
1:C:529:LEU:CD2	1:C:564:ARG:HH21	2.31	0.43
1:G:139:VAL:HG22	1:H:163:GLY:CA	2.45	0.43
1:G:180:MET:O	1:G:184:VAL:HG23	2.18	0.43
1:G:328:GLN:NE2	1:H:517:LEU:N	2.66	0.43
1:G:337:GLU:HB2	1:G:510:ARG:HH22	1.84	0.43
1:H:141:LEU:CD2	1:I:159:VAL:N	2.36	0.43
1:I:123:ASN:CG	1:I:130:ASN:HB2	2.37	0.43
1:K:211:ARG:NH1	1:L:176:SER:HB2	2.33	0.43
1:L:523:THR:OG1	1:L:571:ARG:HB2	2.18	0.43
1:M:253:LYS:O	1:M:257:MET:HG2	2.19	0.43
1:M:438:VAL:HB	1:N:529:LEU:HD22	2.01	0.43
1:N:169:ILE:HG21	1:O:234:LEU:CD2	2.49	0.43
1:N:326:ARG:HB2	1:N:429:MET:CE	2.47	0.43
1:O:337:GLU:HB2	1:O:510:ARG:NH2	2.32	0.43
1:O:444:VAL:HG21	1:O:464:LYS:HE3	2.00	0.43
1:A:174:TYR:CE1	1:A:237:GLU:HB3	2.53	0.43
1:A:599:ALA:CB	1:A:611:ARG:HD3	2.43	0.43
1:B:326:ARG:HB2	1:B:429:MET:CE	2.48	0.43
1:E:427:VAL:HG21	1:F:525:VAL:HG13	1.99	0.43
1:F:119:LEU:HB2	1:F:132:VAL:HG11	1.99	0.43
1:G:216:VAL:HG21	1:H:183:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:139:VAL:CG1	1:I:164:ASP:H	2.31	0.43
1:H:141:LEU:HD23	1:I:162:ALA:HB2	2.00	0.43
1:H:254:ALA:O	1:H:258:VAL:HG23	2.19	0.43
1:H:337:GLU:HB2	1:H:510:ARG:NH2	2.33	0.43
1:H:428:THR:HG21	1:H:474:PRO:CD	2.48	0.43
1:J:122:LEU:HA	1:J:125:ASN:HB2	2.00	0.43
1:J:261:LEU:HD12	1:J:303:LEU:CD2	2.43	0.43
1:J:265:SER:CB	1:J:292:LEU:HD22	2.40	0.43
1:J:350:TRP:HZ2	1:J:553:LEU:HB3	1.78	0.43
1:J:384:THR:O	1:J:388:LYS:HG3	2.18	0.43
1:K:251:TYR:OH	1:L:477:ASN:ND2	2.51	0.43
1:K:444:VAL:HG12	1:K:505:PRO:HG2	2.00	0.43
1:K:529:LEU:CD2	1:K:564:ARG:HH21	2.31	0.43
1:L:254:ALA:O	1:L:258:VAL:HG23	2.19	0.43
1:M:189:LYS:HD3	1:M:193:SER:HB3	2.00	0.43
1:M:426:ILE:HA	1:N:527:GLY:HA2	2.00	0.43
1:N:384:THR:O	1:N:388:LYS:HG3	2.18	0.43
1:O:326:ARG:HB2	1:O:429:MET:CE	2.48	0.43
1:A:174:TYR:CD1	1:A:237:GLU:HB3	2.53	0.43
1:A:293:ALA:HB3	1:A:306:THR:CG2	2.49	0.43
1:A:507:PHE:HB2	1:O:441:GLU:HB2	2.00	0.43
1:C:174:TYR:CD1	1:C:237:GLU:HB3	2.54	0.43
1:D:607:THR:HG22	1:D:608:SER:N	2.33	0.43
1:E:298:GLU:O	1:F:431:ASN:HB3	2.19	0.43
1:E:612:GLN:HG3	1:G:532:GLU:OE1	2.19	0.43
1:F:361:THR:HG23	1:F:362:ASN:N	2.34	0.43
1:I:331:VAL:HG21	1:I:472:LEU:CD2	2.49	0.43
1:I:617:TYR:HE2	1:J:522:GLU:OE1	2.01	0.43
1:J:179:GLU:O	1:J:183:LEU:HG	2.18	0.43
1:K:139:VAL:CG1	1:L:163:GLY:HA2	2.49	0.43
1:K:377:TYR:OH	1:L:375:LYS:HG3	2.18	0.43
1:L:107:VAL:CG2	1:L:112:VAL:HG12	2.49	0.43
1:M:211:ARG:NH1	1:N:176:SER:HB2	2.34	0.43
1:M:326:ARG:HB2	1:M:429:MET:CE	2.48	0.43
1:M:610:ASP:O	1:O:534:THR:HG21	2.18	0.43
1:N:253:LYS:O	1:N:257:MET:HG2	2.18	0.43
1:N:523:THR:OG1	1:N:571:ARG:HB2	2.19	0.43
1:O:115:LEU:CD1	1:O:159:VAL:HG21	2.43	0.43
1:O:116:ALA:HB1	1:O:120:ARG:NH2	2.34	0.43
1:O:188:ASN:O	1:O:189:LYS:HB2	2.19	0.43
1:O:444:VAL:HG12	1:O:505:PRO:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:529:LEU:CD2	1:O:438:VAL:HB	2.49	0.43
1:B:249:LEU:CD1	1:B:257:MET:HG3	2.49	0.43
1:B:607:THR:HG22	1:B:608:SER:N	2.33	0.43
1:D:253:LYS:O	1:D:257:MET:HG2	2.19	0.43
1:D:254:ALA:O	1:D:258:VAL:HG23	2.19	0.43
1:D:365:PRO:HB3	1:D:389:LEU:HD11	2.01	0.43
1:E:115:LEU:HB3	1:E:119:LEU:HG	2.01	0.43
1:G:169:ILE:HG13	1:H:234:LEU:CD2	2.49	0.43
1:H:253:LYS:O	1:H:257:MET:HG2	2.19	0.43
1:J:108:ARG:CD	1:K:220:GLU:OE1	2.67	0.43
1:J:339:ALA:O	1:J:418:SER:N	2.44	0.43
1:K:113:ARG:CG	1:L:197:ASN:O	2.66	0.43
1:K:115:LEU:CD2	1:K:159:VAL:HG21	2.44	0.43
1:K:147:ALA:O	1:K:150:ASN:HB2	2.19	0.43
1:K:188:ASN:O	1:K:189:LYS:HB2	2.18	0.43
1:L:133:HIS:CG	1:L:134:TYR:H	2.37	0.43
1:N:265:SER:CB	1:N:292:LEU:HD22	2.41	0.43
1:A:336:VAL:HB	1:O:592:PHE:CZ	2.53	0.43
1:B:518:VAL:CG2	1:B:524:VAL:HG21	2.48	0.43
1:C:293:ALA:HB3	1:C:306:THR:CG2	2.49	0.43
1:D:179:GLU:O	1:D:183:LEU:HG	2.19	0.43
1:E:328:GLN:HE21	1:F:517:LEU:CA	2.32	0.43
1:F:241:GLN:H	1:F:241:GLN:HG3	1.65	0.43
1:F:428:THR:HG21	1:F:474:PRO:CD	2.49	0.43
1:G:133:HIS:CG	1:G:134:TYR:H	2.37	0.43
1:G:365:PRO:HB3	1:G:389:LEU:HD11	2.00	0.43
1:G:511:THR:HG22	1:G:512:VAL:N	2.34	0.43
1:H:592:PHE:CE2	1:I:336:VAL:HG21	2.53	0.43
1:I:254:ALA:O	1:I:258:VAL:HG23	2.19	0.43
1:I:293:ALA:HB3	1:I:306:THR:CG2	2.49	0.43
1:I:518:VAL:CG2	1:I:524:VAL:HG21	2.48	0.43
1:K:189:LYS:HD3	1:K:193:SER:HB3	2.00	0.43
1:N:394:ASN:HD21	1:O:361:THR:CB	2.31	0.43
1:A:133:HIS:CG	1:A:134:TYR:H	2.36	0.42
1:A:249:LEU:CD1	1:A:257:MET:HG3	2.49	0.42
1:A:359:GLN:NE2	1:O:390:ALA:O	2.44	0.42
1:B:189:LYS:HD3	1:B:193:SER:HB3	2.00	0.42
1:B:254:ALA:O	1:B:258:VAL:HG23	2.19	0.42
1:B:293:ALA:HB3	1:B:306:THR:CG2	2.49	0.42
1:B:438:VAL:HB	1:C:529:LEU:HD22	2.01	0.42
1:C:384:THR:O	1:C:388:LYS:HG3	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:169:ILE:HG21	1:E:234:LEU:HD21	2.00	0.42
1:D:188:ASN:O	1:D:189:LYS:HB2	2.18	0.42
1:D:292:LEU:HD12	1:D:311:VAL:CG1	2.27	0.42
1:E:115:LEU:CD1	1:E:159:VAL:HG21	2.45	0.42
1:H:115:LEU:HB3	1:H:119:LEU:HG	2.01	0.42
1:H:168:ASP:OD1	1:H:224:ARG:HD2	2.18	0.42
1:H:468:THR:HG21	1:I:529:LEU:CD1	2.49	0.42
1:H:483:LEU:HB2	1:H:517:LEU:HD12	2.02	0.42
1:I:209:ASP:O	1:I:213:ASN:HA	2.19	0.42
1:I:337:GLU:HB2	1:I:510:ARG:HH22	1.84	0.42
1:I:495:LYS:O	1:J:501:ASP:OD2	2.36	0.42
1:I:610:ASP:O	1:K:534:THR:HG21	2.19	0.42
1:K:444:VAL:HG21	1:K:464:LYS:HE3	2.00	0.42
1:L:326:ARG:HD2	1:L:430:ASP:OD1	2.19	0.42
1:N:254:ALA:O	1:N:258:VAL:HG23	2.19	0.42
1:N:329:VAL:HG22	1:N:574:ILE:CG1	2.48	0.42
1:N:337:GLU:CB	1:N:510:ARG:HH22	2.32	0.42
1:N:511:THR:HG22	1:N:512:VAL:N	2.34	0.42
1:O:107:VAL:CG2	1:O:112:VAL:HG12	2.48	0.42
1:O:337:GLU:CB	1:O:510:ARG:HH22	2.32	0.42
1:A:183:LEU:HD11	1:O:209:ASP:HB2	2.01	0.42
1:A:336:VAL:HG21	1:O:592:PHE:CE2	2.54	0.42
1:A:529:LEU:HD13	1:O:424:PRO:HB3	2.01	0.42
1:B:424:PRO:HA	1:C:528:GLY:O	2.19	0.42
1:C:180:MET:HE1	1:C:234:LEU:HB2	2.01	0.42
1:C:607:THR:HG22	1:C:608:SER:N	2.33	0.42
1:E:466:VAL:O	1:E:466:VAL:HG23	2.18	0.42
1:F:340:ASP:HB3	1:F:417:LYS:HD3	2.00	0.42
1:F:511:THR:HG22	1:F:512:VAL:N	2.34	0.42
1:F:523:THR:OG1	1:F:571:ARG:HB2	2.20	0.42
1:G:167:VAL:CG2	1:H:230:MET:CE	2.97	0.42
1:G:384:THR:O	1:G:388:LYS:HG3	2.18	0.42
1:H:248:TYR:HH	1:I:324:ILE:CG2	2.32	0.42
1:H:300:THR:HA	1:I:326:ARG:CD	2.49	0.42
1:I:148:VAL:HG12	1:I:152:LEU:CD1	2.49	0.42
1:I:396:MET:HA	1:J:358:THR:CA	2.45	0.42
1:J:254:ALA:O	1:J:258:VAL:HG23	2.19	0.42
1:K:253:LYS:O	1:K:257:MET:HG2	2.19	0.42
1:K:384:THR:O	1:K:388:LYS:HG3	2.18	0.42
1:K:523:THR:OG1	1:K:571:ARG:HB2	2.19	0.42
1:L:174:TYR:CE1	1:L:237:GLU:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:188:ASN:O	1:L:189:LYS:HB2	2.19	0.42
1:L:189:LYS:HD3	1:L:193:SER:HB3	2.01	0.42
1:L:293:ALA:HB3	1:L:306:THR:CG2	2.49	0.42
1:L:438:VAL:HB	1:M:529:LEU:HD22	2.01	0.42
1:M:139:VAL:CG1	1:N:162:ALA:O	2.50	0.42
1:M:188:ASN:O	1:M:189:LYS:HB2	2.18	0.42
1:N:188:ASN:O	1:N:189:LYS:HB2	2.18	0.42
1:O:147:ALA:O	1:O:150:ASN:HB2	2.19	0.42
1:O:326:ARG:HD2	1:O:430:ASP:OD1	2.20	0.42
1:B:180:MET:O	1:B:184:VAL:HG23	2.19	0.42
1:B:350:TRP:HZ2	1:B:553:LEU:HB3	1.78	0.42
1:B:365:PRO:HB3	1:B:389:LEU:HD11	2.02	0.42
1:D:168:ASP:OD1	1:D:224:ARG:HD2	2.18	0.42
1:D:326:ARG:HD2	1:D:430:ASP:OD1	2.20	0.42
1:E:326:ARG:HD2	1:E:430:ASP:OD1	2.19	0.42
1:F:133:HIS:CG	1:F:134:TYR:H	2.37	0.42
1:F:147:ALA:O	1:F:150:ASN:HB2	2.19	0.42
1:F:337:GLU:HB2	1:F:510:ARG:HH22	1.84	0.42
1:F:350:TRP:HZ2	1:F:553:LEU:HB3	1.80	0.42
1:F:472:LEU:HG	1:F:474:PRO:CD	2.47	0.42
1:G:211:ARG:HH12	1:I:308:GLN:CG	2.31	0.42
1:H:383:THR:HG21	1:I:372:ILE:HG22	2.01	0.42
1:I:337:GLU:CB	1:I:510:ARG:HH22	2.32	0.42
1:I:400:PHE:CE1	1:J:355:GLY:HA2	2.54	0.42
1:K:141:LEU:HD12	1:K:141:LEU:O	2.18	0.42
1:M:107:VAL:CG2	1:M:112:VAL:HG12	2.50	0.42
1:M:174:TYR:CD1	1:M:237:GLU:HB3	2.53	0.42
1:N:184:VAL:HG11	1:N:206:VAL:HG11	2.01	0.42
1:N:461:ILE:HG21	1:O:503:LEU:HB3	2.01	0.42
1:N:518:VAL:HG21	1:N:524:VAL:HG21	2.01	0.42
1:O:523:THR:OG1	1:O:571:ARG:HB2	2.20	0.42
1:A:122:LEU:HA	1:A:125:ASN:HB2	2.01	0.42
1:A:398:ALA:HA	1:B:356:GLY:HA3	2.01	0.42
1:A:461:ILE:HG12	1:B:445:GLN:CB	2.49	0.42
1:A:536:GLU:O	1:O:417:LYS:N	2.47	0.42
1:C:365:PRO:HB3	1:C:389:LEU:HD11	2.02	0.42
1:C:523:THR:OG1	1:C:571:ARG:HB2	2.19	0.42
1:E:107:VAL:CG2	1:E:112:VAL:HG12	2.48	0.42
1:E:180:MET:O	1:E:184:VAL:HG23	2.20	0.42
1:G:188:ASN:O	1:G:189:LYS:HB2	2.20	0.42
1:G:428:THR:HG21	1:G:474:PRO:CD	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:468:THR:HG21	1:J:529:LEU:HD13	2.01	0.42
1:J:394:ASN:OD1	1:K:360:PHE:C	2.58	0.42
1:K:133:HIS:CG	1:K:134:TYR:H	2.37	0.42
1:K:337:GLU:CB	1:K:510:ARG:HH22	2.32	0.42
1:L:122:LEU:HA	1:L:125:ASN:HB2	2.00	0.42
1:M:139:VAL:HG21	1:N:162:ALA:O	2.19	0.42
1:M:329:VAL:HG22	1:M:574:ILE:CG1	2.48	0.42
1:M:472:LEU:HG	1:M:474:PRO:CD	2.48	0.42
1:N:104:VAL:HG11	1:O:162:ALA:HB1	2.01	0.42
1:N:147:ALA:O	1:N:150:ASN:HB2	2.19	0.42
1:O:254:ALA:O	1:O:258:VAL:HG23	2.19	0.42
1:O:365:PRO:HB3	1:O:389:LEU:HD11	2.01	0.42
1:A:197:ASN:O	1:O:113:ARG:CG	2.65	0.42
1:A:207:VAL:HG11	1:B:186:ASN:HD22	1.83	0.42
1:A:253:LYS:O	1:A:257:MET:HG2	2.19	0.42
1:A:254:ALA:O	1:A:258:VAL:HG23	2.20	0.42
1:B:122:LEU:HA	1:B:125:ASN:HB2	2.01	0.42
1:C:174:TYR:CE1	1:C:237:GLU:HB3	2.54	0.42
1:D:184:VAL:HG11	1:D:206:VAL:HG11	2.01	0.42
1:D:483:LEU:HB2	1:D:517:LEU:HD12	2.02	0.42
1:E:184:VAL:HG11	1:E:206:VAL:HG11	2.01	0.42
1:E:213:ASN:HB2	1:F:309:PRO:HG3	2.01	0.42
1:E:599:ALA:CB	1:E:611:ARG:HD3	2.48	0.42
1:H:147:ALA:O	1:H:150:ASN:HB2	2.20	0.42
1:I:174:TYR:CD1	1:I:237:GLU:CB	3.02	0.42
1:I:221:PRO:HA	1:I:224:ARG:HE	1.85	0.42
1:I:330:LEU:HD21	1:I:332:GLU:OE2	2.20	0.42
1:I:511:THR:HG22	1:I:512:VAL:N	2.35	0.42
1:J:253:LYS:O	1:J:257:MET:HG2	2.19	0.42
1:K:184:VAL:HG11	1:K:206:VAL:HG11	2.01	0.42
1:K:339:ALA:O	1:K:418:SER:N	2.44	0.42
1:L:337:GLU:CB	1:L:510:ARG:HH22	2.33	0.42
1:M:133:HIS:CG	1:M:134:TYR:H	2.37	0.42
1:M:254:ALA:O	1:M:258:VAL:HG23	2.19	0.42
1:M:326:ARG:HD2	1:M:430:ASP:OD1	2.20	0.42
1:M:581:TYR:HE2	1:N:524:VAL:HG11	1.80	0.42
1:N:107:VAL:CG2	1:N:112:VAL:HG12	2.48	0.42
1:N:261:LEU:HD12	1:N:303:LEU:CD2	2.45	0.42
1:O:115:LEU:CD2	1:O:159:VAL:HG21	2.46	0.42
1:A:114:GLU:O	1:O:133:HIS:NE2	2.53	0.42
1:C:254:ALA:O	1:C:258:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:337:GLU:HB2	1:C:510:ARG:HH22	1.85	0.42
1:D:147:ALA:O	1:D:150:ASN:HB2	2.20	0.42
1:D:297:ASP:CB	1:E:322:LEU:HD11	2.49	0.42
1:D:337:GLU:HB2	1:D:510:ARG:HH22	1.85	0.42
1:E:415:ASN:HB3	1:F:540:LYS:NZ	2.34	0.42
1:F:337:GLU:CB	1:F:510:ARG:HH22	2.32	0.42
1:F:365:PRO:HB3	1:F:389:LEU:HD11	2.01	0.42
1:F:518:VAL:HG21	1:F:524:VAL:HG21	2.01	0.42
1:G:250:LYS:HD2	1:H:477:ASN:OD1	2.19	0.42
1:G:337:GLU:CB	1:G:510:ARG:HH22	2.32	0.42
1:H:518:VAL:HG21	1:H:524:VAL:HG21	2.01	0.42
1:J:189:LYS:HD3	1:J:193:SER:HB3	2.00	0.42
1:J:241:GLN:H	1:J:241:GLN:HG3	1.68	0.42
1:J:511:THR:HG22	1:J:512:VAL:N	2.34	0.42
1:K:244:THR:N	1:L:314:GLU:OE2	2.51	0.42
1:L:180:MET:SD	1:L:234:LEU:HB3	2.59	0.42
1:L:200:LEU:HD12	1:L:200:LEU:HA	1.95	0.42
1:L:329:VAL:HG22	1:L:574:ILE:CG1	2.48	0.42
1:L:424:PRO:HA	1:M:528:GLY:O	2.18	0.42
1:L:444:VAL:HG12	1:L:505:PRO:HG2	2.01	0.42
1:O:189:LYS:HD3	1:O:193:SER:HB3	2.00	0.42
1:O:518:VAL:HG21	1:O:524:VAL:HG21	2.01	0.42
1:A:189:LYS:HD3	1:A:193:SER:HB3	2.01	0.42
1:A:261:LEU:HD12	1:A:303:LEU:CD2	2.44	0.42
1:B:104:VAL:HG11	1:C:162:ALA:HB1	2.02	0.42
1:B:337:GLU:HB2	1:B:510:ARG:HH22	1.85	0.42
1:B:337:GLU:CB	1:B:510:ARG:HH22	2.33	0.42
1:C:249:LEU:CD1	1:C:257:MET:HG3	2.49	0.42
1:E:179:GLU:O	1:E:183:LEU:HG	2.19	0.42
1:E:306:THR:HG23	1:E:306:THR:O	2.19	0.42
1:E:417:LYS:O	1:F:536:GLU:O	2.37	0.42
1:G:261:LEU:HD12	1:G:303:LEU:CD2	2.45	0.42
1:G:412:LEU:CD1	1:H:360:PHE:HE1	2.33	0.42
1:H:104:VAL:HG11	1:I:162:ALA:HA	2.02	0.42
1:H:444:VAL:HG12	1:H:505:PRO:HG2	2.00	0.42
1:J:329:VAL:HG22	1:J:574:ILE:CG1	2.48	0.42
1:K:254:ALA:O	1:K:258:VAL:HG23	2.19	0.42
1:K:329:VAL:HG22	1:K:574:ILE:CG1	2.48	0.42
1:L:253:LYS:O	1:L:257:MET:HG2	2.19	0.42
1:M:518:VAL:HG21	1:M:524:VAL:HG21	2.01	0.42
1:N:116:ALA:HB1	1:N:120:ARG:NH2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:133:HIS:CG	1:N:134:TYR:H	2.37	0.42
1:N:365:PRO:HB3	1:N:389:LEU:HD11	2.01	0.42
1:O:133:HIS:CG	1:O:134:TYR:H	2.37	0.42
1:A:326:ARG:HD2	1:A:430:ASP:OD1	2.19	0.42
1:B:180:MET:SD	1:B:234:LEU:HB3	2.60	0.42
1:B:483:LEU:HB2	1:B:517:LEU:HD12	2.02	0.42
1:C:253:LYS:O	1:C:257:MET:HG2	2.19	0.42
1:C:326:ARG:HD2	1:C:430:ASP:OD1	2.20	0.42
1:D:337:GLU:CB	1:D:510:ARG:HH22	2.32	0.42
1:F:119:LEU:HD21	1:F:155:VAL:CG1	2.50	0.42
1:F:461:ILE:CG1	1:G:445:GLN:HB2	2.46	0.42
1:H:133:HIS:HD2	1:I:159:VAL:HG21	1.85	0.42
1:H:523:THR:OG1	1:H:571:ARG:HB2	2.20	0.42
1:I:109:ASN:ND2	1:I:163:GLY:O	2.52	0.42
1:J:365:PRO:HB3	1:J:389:LEU:HD11	2.01	0.42
1:K:258:VAL:CG2	1:K:296:ALA:CB	2.93	0.42
1:L:428:THR:HG21	1:L:474:PRO:CD	2.48	0.42
1:N:133:HIS:NE2	1:O:114:GLU:O	2.52	0.42
1:N:326:ARG:HD2	1:N:430:ASP:OD1	2.19	0.42
1:N:394:ASN:OD1	1:O:360:PHE:CA	2.68	0.42
1:A:188:ASN:O	1:A:189:LYS:HB2	2.19	0.42
1:B:115:LEU:CD1	1:B:159:VAL:HG21	2.44	0.42
1:D:603:GLU:OE1	1:D:609:PRO:HG2	2.20	0.42
1:E:337:GLU:CB	1:E:510:ARG:HH22	2.32	0.42
1:E:361:THR:HG23	1:E:362:ASN:N	2.35	0.42
1:F:216:VAL:HG21	1:G:183:LEU:HD22	2.02	0.42
1:F:529:LEU:HD21	1:F:564:ARG:HH21	1.85	0.42
1:G:361:THR:HG23	1:G:362:ASN:N	2.35	0.42
1:G:581:TYR:CE2	1:H:524:VAL:CG1	3.01	0.42
1:H:426:ILE:HD12	1:I:526:LEU:O	2.19	0.42
1:J:293:ALA:HB3	1:J:306:THR:CG2	2.49	0.42
1:J:337:GLU:HB2	1:J:510:ARG:HH22	1.85	0.42
1:K:326:ARG:HD2	1:K:430:ASP:OD1	2.20	0.42
1:K:428:THR:HG21	1:K:474:PRO:CD	2.49	0.42
1:M:115:LEU:CD2	1:M:159:VAL:HG21	2.47	0.42
1:M:444:VAL:HG21	1:M:464:LYS:HE3	2.01	0.42
1:O:184:VAL:HG11	1:O:206:VAL:HG11	2.01	0.42
1:O:241:GLN:H	1:O:241:GLN:HG3	1.66	0.42
1:O:337:GLU:HB2	1:O:510:ARG:HH22	1.84	0.42
1:A:107:VAL:CG2	1:A:112:VAL:HG12	2.49	0.42
1:A:207:VAL:HG22	1:B:186:ASN:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:VAL:HG13	1:B:186:ASN:HD22	1.84	0.42
1:B:104:VAL:HG23	1:C:158:ARG:HD2	2.01	0.42
1:B:251:TYR:OH	1:C:477:ASN:ND2	2.52	0.42
1:C:483:LEU:HB2	1:C:517:LEU:HD12	2.02	0.42
1:D:444:VAL:HG12	1:D:505:PRO:HG2	2.00	0.42
1:E:116:ALA:HB1	1:E:120:ARG:NH2	2.35	0.42
1:E:438:VAL:HB	1:F:529:LEU:CD2	2.49	0.42
1:G:394:ASN:HD21	1:H:361:THR:HB	1.84	0.42
1:G:523:THR:OG1	1:G:571:ARG:HB2	2.20	0.42
1:H:209:ASP:CG	1:I:179:GLU:CD	2.78	0.42
1:I:119:LEU:HB2	1:I:132:VAL:HG11	2.02	0.42
1:I:394:ASN:HD21	1:J:361:THR:HG21	1.82	0.42
1:I:603:GLU:OE1	1:I:609:PRO:HG2	2.19	0.42
1:J:107:VAL:CG2	1:J:112:VAL:HG12	2.50	0.42
1:J:300:THR:HG23	1:K:324:ILE:HD11	2.00	0.42
1:L:339:ALA:O	1:L:418:SER:N	2.44	0.42
1:M:122:LEU:HA	1:M:125:ASN:HB2	2.00	0.42
1:M:293:ALA:HB3	1:M:306:THR:CG2	2.49	0.42
1:M:328:GLN:HE22	1:N:517:LEU:C	2.05	0.42
1:M:337:GLU:CB	1:M:510:ARG:HH22	2.33	0.42
1:M:394:ASN:OD1	1:N:360:PHE:C	2.59	0.42
1:N:472:LEU:HG	1:N:474:PRO:CD	2.48	0.42
1:B:107:VAL:CG2	1:B:112:VAL:HG12	2.49	0.41
1:B:211:ARG:HA	1:C:243:ASN:ND2	2.34	0.41
1:C:337:GLU:CB	1:C:510:ARG:HH22	2.32	0.41
1:D:361:THR:HG23	1:D:362:ASN:N	2.35	0.41
1:D:463:ARG:HH21	1:E:507:PHE:HD2	1.68	0.41
1:E:108:ARG:HD3	1:F:220:GLU:OE1	2.20	0.41
1:F:394:ASN:HD21	1:G:361:THR:HG22	1.83	0.41
1:H:115:LEU:CD2	1:H:159:VAL:HG21	2.46	0.41
1:H:139:VAL:HG23	1:I:162:ALA:CB	2.04	0.41
1:H:208:ALA:C	1:I:183:LEU:HD21	2.39	0.41
1:I:306:THR:HG23	1:I:306:THR:O	2.20	0.41
1:I:351:ALA:HA	1:I:357:GLY:HA2	2.01	0.41
1:I:617:TYR:OH	1:J:522:GLU:HB3	2.20	0.41
1:J:570:ILE:O	1:J:570:ILE:HG23	2.20	0.41
1:K:518:VAL:HG21	1:K:524:VAL:HG21	2.01	0.41
1:L:174:TYR:CD1	1:L:237:GLU:HB3	2.54	0.41
1:L:518:VAL:HG21	1:L:524:VAL:HG21	2.01	0.41
1:M:337:GLU:HB2	1:M:510:ARG:HH22	1.85	0.41
1:O:253:LYS:HE2	1:O:253:LYS:HB3	1.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:483:LEU:HB2	1:O:517:LEU:HD12	2.02	0.41
1:A:365:PRO:HB3	1:A:389:LEU:HD11	2.02	0.41
1:A:442:VAL:HA	1:B:506:THR:HG22	2.02	0.41
1:A:605:TYR:OH	1:C:548:PRO:HB3	2.21	0.41
1:B:200:LEU:HD12	1:B:200:LEU:HA	1.96	0.41
1:C:180:MET:O	1:C:184:VAL:HG23	2.21	0.41
1:C:339:ALA:O	1:C:418:SER:N	2.44	0.41
1:E:418:SER:HA	1:F:534:THR:O	2.20	0.41
1:E:483:LEU:HB2	1:E:517:LEU:HD12	2.02	0.41
1:G:300:THR:N	1:H:326:ARG:HD3	2.35	0.41
1:H:297:ASP:CB	1:I:322:LEU:HD11	2.50	0.41
1:H:329:VAL:HG22	1:H:574:ILE:CG1	2.48	0.41
1:H:581:TYR:HE2	1:I:518:VAL:HG22	1.85	0.41
1:I:149:VAL:HA	1:I:152:LEU:HB2	2.01	0.41
1:J:174:TYR:CE1	1:J:237:GLU:HB3	2.55	0.41
1:L:394:ASN:ND2	1:M:361:THR:CG2	2.80	0.41
1:M:365:PRO:HB3	1:M:389:LEU:HD11	2.01	0.41
1:M:428:THR:HG21	1:M:474:PRO:CD	2.48	0.41
1:N:426:ILE:HA	1:O:527:GLY:HA2	2.02	0.41
1:O:249:LEU:CD1	1:O:257:MET:HG3	2.51	0.41
1:A:189:LYS:NZ	1:O:201:LEU:HB3	2.35	0.41
1:A:314:GLU:OE2	1:O:244:THR:N	2.53	0.41
1:A:337:GLU:HB2	1:A:510:ARG:HH22	1.85	0.41
1:A:550:LEU:HD23	1:A:550:LEU:HA	1.90	0.41
1:A:592:PHE:CE2	1:B:336:VAL:CG2	3.03	0.41
1:A:614:LEU:HD13	1:B:336:VAL:HG11	2.02	0.41
1:C:427:VAL:O	1:D:516:VAL:HG12	2.21	0.41
1:D:445:GLN:HE21	1:E:503:LEU:HD23	1.81	0.41
1:D:523:THR:OG1	1:D:571:ARG:HB2	2.20	0.41
1:F:592:PHE:CZ	1:G:336:VAL:HB	2.54	0.41
1:G:119:LEU:HD21	1:G:155:VAL:CG1	2.50	0.41
1:G:169:ILE:HG13	1:H:234:LEU:HG	2.01	0.41
1:H:104:VAL:CG1	1:I:162:ALA:HA	2.49	0.41
1:H:207:VAL:HG11	1:I:183:LEU:HD23	1.98	0.41
1:H:361:THR:HG23	1:H:362:ASN:N	2.35	0.41
1:I:483:LEU:HB2	1:I:517:LEU:HD12	2.02	0.41
1:J:337:GLU:CB	1:J:510:ARG:HH22	2.32	0.41
1:K:424:PRO:HA	1:L:528:GLY:O	2.19	0.41
1:K:596:GLN:HG2	1:L:338:ILE:HD11	2.02	0.41
1:L:337:GLU:HB2	1:L:510:ARG:HH22	1.85	0.41
1:M:442:VAL:HA	1:N:506:THR:HG22	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:472:LEU:HG	1:O:474:PRO:CD	2.47	0.41
1:A:483:LEU:HB2	1:A:517:LEU:HD12	2.03	0.41
1:A:518:VAL:HG21	1:A:524:VAL:HG21	2.01	0.41
1:B:326:ARG:HD2	1:B:430:ASP:OD1	2.20	0.41
1:C:107:VAL:CG2	1:C:112:VAL:HG12	2.49	0.41
1:C:552:TYR:HA	1:C:555:ARG:CG	2.47	0.41
1:E:365:PRO:CB	1:E:389:LEU:HD11	2.50	0.41
1:F:118:LEU:HD13	1:F:155:VAL:HG11	2.02	0.41
1:G:211:ARG:HH12	1:I:308:GLN:CB	2.33	0.41
1:G:329:VAL:HG22	1:G:574:ILE:CG1	2.48	0.41
1:H:139:VAL:H	1:I:163:GLY:HA2	1.84	0.41
1:I:258:VAL:HG21	1:I:296:ALA:CB	2.50	0.41
1:I:570:ILE:O	1:I:570:ILE:HG23	2.21	0.41
1:J:133:HIS:CG	1:J:134:TYR:H	2.37	0.41
1:J:249:LEU:CD1	1:J:257:MET:HG3	2.50	0.41
1:L:365:PRO:HB3	1:L:389:LEU:HD11	2.02	0.41
1:O:165:GLN:HG3	1:O:165:GLN:O	2.21	0.41
1:A:472:LEU:HG	1:A:474:PRO:CD	2.47	0.41
1:B:133:HIS:CG	1:B:134:TYR:H	2.37	0.41
1:C:426:ILE:HA	1:D:527:GLY:HA2	2.02	0.41
1:F:188:ASN:O	1:F:189:LYS:HB2	2.20	0.41
1:F:329:VAL:HG22	1:F:574:ILE:CG1	2.48	0.41
1:G:216:VAL:CG2	1:H:183:LEU:HD22	2.47	0.41
1:G:570:ILE:O	1:G:570:ILE:HG23	2.21	0.41
1:H:119:LEU:HD21	1:H:155:VAL:CG1	2.49	0.41
1:H:581:TYR:CE2	1:I:518:VAL:HG22	2.56	0.41
1:I:342:ASP:OD1	1:I:561:THR:HB	2.21	0.41
1:I:516:VAL:HG11	1:I:526:LEU:HD22	2.02	0.41
1:J:174:TYR:CD1	1:J:237:GLU:HB3	2.56	0.41
1:J:444:VAL:HG21	1:J:464:LYS:HE3	2.02	0.41
1:K:165:GLN:HG3	1:K:165:GLN:O	2.21	0.41
1:K:394:ASN:HD21	1:L:361:THR:CB	2.33	0.41
1:K:483:LEU:HB2	1:K:517:LEU:HD12	2.02	0.41
1:L:444:VAL:HG21	1:L:464:LYS:HE3	2.02	0.41
1:N:180:MET:O	1:N:184:VAL:HG23	2.20	0.41
1:A:186:ASN:HD22	1:O:207:VAL:CG1	2.34	0.41
1:A:361:THR:HG23	1:A:362:ASN:N	2.35	0.41
1:B:207:VAL:HG21	1:C:186:ASN:HB2	2.01	0.41
1:B:444:VAL:HG21	1:B:464:LYS:HE3	2.02	0.41
1:B:570:ILE:HG23	1:B:570:ILE:O	2.21	0.41
1:C:133:HIS:CG	1:C:134:TYR:H	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:444:VAL:HG12	1:C:505:PRO:HG2	2.01	0.41
1:C:461:ILE:CD1	1:D:445:GLN:O	2.65	0.41
1:C:518:VAL:HG21	1:C:524:VAL:HG21	2.02	0.41
1:F:108:ARG:NH2	1:G:226:ARG:HD2	2.35	0.41
1:G:299:THR:HB	1:H:326:ARG:NE	2.35	0.41
1:I:444:VAL:HG12	1:I:505:PRO:HG2	2.01	0.41
1:K:104:VAL:HG11	1:L:162:ALA:HA	2.02	0.41
1:K:180:MET:O	1:K:184:VAL:HG23	2.21	0.41
1:K:365:PRO:HB3	1:K:389:LEU:HD11	2.02	0.41
1:L:211:ARG:HA	1:M:243:ASN:HD21	1.86	0.41
1:M:104:VAL:CG2	1:N:158:ARG:HD2	2.50	0.41
1:M:444:VAL:HG12	1:M:505:PRO:HG2	2.01	0.41
1:M:570:ILE:O	1:M:570:ILE:HG23	2.21	0.41
1:N:394:ASN:ND2	1:O:361:THR:CG2	2.80	0.41
1:C:361:THR:HG23	1:C:362:ASN:N	2.35	0.41
1:D:116:ALA:HB1	1:D:120:ARG:NH2	2.35	0.41
1:F:603:GLU:OE1	1:F:609:PRO:HG2	2.20	0.41
1:G:118:LEU:HD13	1:G:155:VAL:HG11	2.03	0.41
1:G:394:ASN:OD1	1:H:360:PHE:C	2.59	0.41
1:H:135:ASP:HB2	1:I:163:GLY:HA3	2.01	0.41
1:H:337:GLU:CB	1:H:510:ARG:HH22	2.33	0.41
1:H:603:GLU:OE1	1:H:609:PRO:HG2	2.20	0.41
1:I:365:PRO:CB	1:I:389:LEU:HD11	2.50	0.41
1:J:211:ARG:NH1	1:K:176:SER:HB2	2.36	0.41
1:J:426:ILE:HA	1:K:527:GLY:HA2	2.02	0.41
1:K:330:LEU:HD21	1:K:332:GLU:OE2	2.21	0.41
1:L:207:VAL:CG1	1:M:186:ASN:HD22	2.34	0.41
1:L:570:ILE:O	1:L:570:ILE:HG23	2.21	0.41
1:N:361:THR:HG23	1:N:362:ASN:N	2.35	0.41
1:N:483:LEU:HB2	1:N:517:LEU:HD12	2.02	0.41
1:N:570:ILE:O	1:N:570:ILE:HG23	2.21	0.41
1:N:603:GLU:OE1	1:N:609:PRO:HG2	2.21	0.41
1:A:301:ASN:HB2	1:B:431:ASN:ND2	2.36	0.41
1:C:184:VAL:HG11	1:C:206:VAL:HG11	2.03	0.41
1:C:526:LEU:HD12	1:C:568:VAL:HG12	2.03	0.41
1:D:328:GLN:NE2	1:E:517:LEU:CA	2.84	0.41
1:E:384:THR:O	1:E:388:LYS:HG3	2.20	0.41
1:F:330:LEU:HD21	1:F:332:GLU:OE2	2.21	0.41
1:F:395:GLY:HA3	1:F:411:ALA:O	2.20	0.41
1:G:169:ILE:HG21	1:H:234:LEU:HD23	2.03	0.41
1:H:205:LYS:CE	1:I:188:ASN:HD22	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:116:ALA:HB1	1:I:120:ARG:HH21	1.85	0.41
1:I:122:LEU:HA	1:I:125:ASN:HB2	2.02	0.41
1:I:300:THR:CG2	1:J:324:ILE:HD11	2.51	0.41
1:I:444:VAL:HG21	1:I:464:LYS:HE3	2.01	0.41
1:J:211:ARG:HA	1:K:243:ASN:HD21	1.85	0.41
1:J:361:THR:HG23	1:J:362:ASN:N	2.35	0.41
1:J:483:LEU:HB2	1:J:517:LEU:HD12	2.03	0.41
1:K:116:ALA:HB1	1:K:120:ARG:NH2	2.35	0.41
1:K:200:LEU:HD12	1:K:200:LEU:HA	1.96	0.41
1:K:249:LEU:CD1	1:K:257:MET:HG3	2.51	0.41
1:K:394:ASN:OD1	1:L:360:PHE:CA	2.68	0.41
1:L:472:LEU:HG	1:L:474:PRO:CD	2.47	0.41
1:M:599:ALA:CB	1:M:611:ARG:HD3	2.44	0.41
1:N:550:LEU:HD23	1:N:550:LEU:HA	1.90	0.41
1:A:111:SER:HB3	1:B:198:THR:HG23	2.03	0.41
1:A:186:ASN:HD22	1:O:207:VAL:HG13	1.86	0.41
1:A:199:SER:CB	1:O:136:PRO:HB3	2.50	0.41
1:B:472:LEU:HG	1:B:474:PRO:CD	2.47	0.41
1:B:603:GLU:OE1	1:B:609:PRO:HG2	2.21	0.41
1:C:337:GLU:HB2	1:C:566:LEU:CD1	2.46	0.41
1:C:394:ASN:OD1	1:D:360:PHE:C	2.58	0.41
1:D:306:THR:HG23	1:D:306:THR:O	2.21	0.41
1:D:394:ASN:HA	1:E:359:GLN:O	2.20	0.41
1:D:526:LEU:HD12	1:D:568:VAL:HG12	2.03	0.41
1:E:261:LEU:HD12	1:E:303:LEU:CD2	2.46	0.41
1:E:340:ASP:HB2	1:E:417:LYS:HD3	2.02	0.41
1:E:430:ASP:OD1	1:E:430:ASP:O	2.39	0.41
1:E:472:LEU:HG	1:E:474:PRO:CD	2.47	0.41
1:F:337:GLU:HB2	1:F:566:LEU:CD1	2.46	0.41
1:F:339:ALA:O	1:F:418:SER:N	2.44	0.41
1:F:394:ASN:HD21	1:G:361:THR:HB	1.86	0.41
1:F:503:LEU:HD12	1:F:503:LEU:HA	1.88	0.41
1:F:592:PHE:CE2	1:G:336:VAL:HG21	2.55	0.41
1:G:365:PRO:CB	1:G:389:LEU:HD11	2.51	0.41
1:H:137:SER:HG	1:I:163:GLY:C	2.23	0.41
1:H:241:GLN:H	1:H:241:GLN:HG3	1.65	0.41
1:H:330:LEU:HD21	1:H:332:GLU:OE2	2.21	0.41
1:I:119:LEU:HD21	1:I:155:VAL:CG1	2.50	0.41
1:I:326:ARG:HB2	1:I:429:MET:HE3	2.03	0.41
1:I:337:GLU:HB2	1:I:566:LEU:CD1	2.46	0.41
1:J:394:ASN:HB3	1:J:412:LEU:CD2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:518:VAL:HG21	1:J:524:VAL:HG21	2.01	0.41
1:K:603:GLU:OE1	1:K:609:PRO:HG2	2.21	0.41
1:L:211:ARG:NH1	1:M:176:SER:CB	2.84	0.41
1:L:330:LEU:HD21	1:L:332:GLU:OE2	2.21	0.41
1:L:483:LEU:HB2	1:L:517:LEU:HD12	2.02	0.41
1:M:483:LEU:HB2	1:M:517:LEU:HD12	2.02	0.41
1:M:552:TYR:HA	1:M:555:ARG:CG	2.47	0.41
1:N:249:LEU:CD1	1:N:257:MET:HG3	2.51	0.41
1:A:348:VAL:HG13	1:A:409:VAL:HG22	2.03	0.41
1:C:119:LEU:HD21	1:C:155:VAL:CG1	2.51	0.41
1:C:139:VAL:HG21	1:D:162:ALA:O	2.21	0.41
1:C:412:LEU:CD1	1:D:360:PHE:HE1	2.34	0.41
1:C:550:LEU:HD23	1:C:550:LEU:HA	1.90	0.41
1:D:119:LEU:HD21	1:D:155:VAL:CG1	2.51	0.41
1:D:518:VAL:HG21	1:D:524:VAL:HG21	2.02	0.41
1:F:526:LEU:HD12	1:F:568:VAL:HG12	2.03	0.41
1:G:330:LEU:HD21	1:G:332:GLU:OE2	2.21	0.41
1:H:202:LEU:HG	1:I:189:LYS:HB3	2.02	0.41
1:H:337:GLU:HB2	1:H:510:ARG:HH22	1.86	0.41
1:H:365:PRO:HB3	1:H:389:LEU:HD11	2.03	0.41
1:H:472:LEU:HG	1:H:474:PRO:CD	2.47	0.41
1:H:529:LEU:HD21	1:H:564:ARG:HH21	1.86	0.41
1:J:180:MET:O	1:J:184:VAL:HG23	2.21	0.41
1:J:444:VAL:HG12	1:J:505:PRO:HG2	2.02	0.41
1:K:570:ILE:O	1:K:570:ILE:HG23	2.21	0.41
1:O:361:THR:HG23	1:O:362:ASN:N	2.36	0.41
1:A:184:VAL:HG11	1:A:206:VAL:HG11	2.03	0.40
1:A:529:LEU:HD13	1:O:468:THR:HG21	2.03	0.40
1:B:207:VAL:CG1	1:C:186:ASN:HD22	2.34	0.40
1:B:361:THR:HG23	1:B:362:ASN:N	2.36	0.40
1:C:241:GLN:H	1:C:241:GLN:HG3	1.67	0.40
1:E:427:VAL:HG11	1:E:581:TYR:HE1	1.86	0.40
1:E:526:LEU:HD12	1:E:568:VAL:HG12	2.04	0.40
1:E:581:TYR:OH	1:F:524:VAL:HG21	2.21	0.40
1:G:211:ARG:HB3	1:I:310:ASP:OD2	2.21	0.40
1:I:203:ALA:HB1	1:I:204:PRO:HD2	2.03	0.40
1:J:358:THR:HG22	1:J:360:PHE:CE2	2.56	0.40
1:K:136:PRO:HB3	1:L:199:SER:CB	2.50	0.40
1:K:207:VAL:CG2	1:L:186:ASN:HB2	2.51	0.40
1:L:249:LEU:CD1	1:L:257:MET:HG3	2.50	0.40
1:M:330:LEU:HD21	1:M:332:GLU:OE2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:496:GLN:HA	1:N:501:ASP:OD2	2.21	0.40
1:N:596:GLN:HG2	1:O:338:ILE:HD11	2.03	0.40
1:A:110:VAL:HG21	1:O:135:ASP:CG	2.42	0.40
1:A:306:THR:HG23	1:A:306:THR:O	2.22	0.40
1:A:337:GLU:CB	1:A:510:ARG:HH22	2.33	0.40
1:A:444:VAL:HG21	1:A:464:LYS:HE3	2.03	0.40
1:B:426:ILE:HA	1:C:527:GLY:HA2	2.03	0.40
1:D:174:TYR:CD1	1:D:237:GLU:HB3	2.56	0.40
1:D:180:MET:O	1:D:184:VAL:HG23	2.20	0.40
1:D:330:LEU:HD21	1:D:332:GLU:OE2	2.21	0.40
1:E:147:ALA:O	1:E:150:ASN:HB2	2.21	0.40
1:F:102:THR:OG1	1:F:142:ILE:O	2.28	0.40
1:G:169:ILE:CG1	1:H:234:LEU:HD21	2.51	0.40
1:H:251:TYR:CZ	1:I:477:ASN:CG	2.94	0.40
1:H:301:ASN:CB	1:I:431:ASN:ND2	2.79	0.40
1:H:348:VAL:HG13	1:H:409:VAL:HG22	2.03	0.40
1:I:340:ASP:HB2	1:I:417:LYS:HD3	2.03	0.40
1:I:341:GLY:O	1:I:415:ASN:HA	2.21	0.40
1:I:592:PHE:CZ	1:J:336:VAL:CG2	3.04	0.40
1:K:472:LEU:HG	1:K:474:PRO:CD	2.47	0.40
1:L:342:ASP:OD1	1:L:561:THR:HB	2.21	0.40
1:M:300:THR:HG23	1:N:324:ILE:HD11	1.99	0.40
1:M:603:GLU:OE1	1:M:609:PRO:HG2	2.22	0.40
1:N:337:GLU:HB2	1:N:510:ARG:HH22	1.84	0.40
1:N:365:PRO:CB	1:N:389:LEU:HD11	2.52	0.40
1:O:570:ILE:O	1:O:570:ILE:HG23	2.21	0.40
1:A:412:LEU:CD1	1:B:360:PHE:HE1	2.33	0.40
1:B:444:VAL:HG12	1:B:505:PRO:HG2	2.02	0.40
1:C:342:ASP:OD1	1:C:561:THR:HB	2.22	0.40
1:C:442:VAL:HA	1:D:506:THR:HG22	2.03	0.40
1:D:211:ARG:HA	1:E:243:ASN:ND2	2.36	0.40
1:D:342:ASP:OD1	1:D:561:THR:HB	2.22	0.40
1:G:603:GLU:OE1	1:G:609:PRO:HG2	2.21	0.40
1:H:116:ALA:HB1	1:H:120:ARG:NH2	2.36	0.40
1:H:306:THR:HG23	1:H:306:THR:O	2.20	0.40
1:H:570:ILE:O	1:H:570:ILE:HG23	2.22	0.40
1:I:419:ASP:N	1:J:534:THR:O	2.52	0.40
1:J:326:ARG:HB2	1:J:429:MET:CE	2.51	0.40
1:J:330:LEU:HD21	1:J:332:GLU:OE2	2.22	0.40
1:K:337:GLU:HB2	1:K:510:ARG:HH22	1.85	0.40
1:K:473:THR:O	1:K:473:THR:CG2	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:603:GLU:OE1	1:L:609:PRO:HG2	2.21	0.40
1:M:339:ALA:O	1:M:418:SER:N	2.44	0.40
1:M:361:THR:HG23	1:M:362:ASN:N	2.36	0.40
1:N:165:GLN:HG3	1:N:165:GLN:O	2.22	0.40
1:N:428:THR:HG21	1:N:474:PRO:CD	2.49	0.40
1:N:468:THR:HG21	1:O:529:LEU:CD1	2.51	0.40
1:N:552:TYR:HA	1:N:555:ARG:CG	2.47	0.40
1:O:526:LEU:HD12	1:O:568:VAL:HG12	2.03	0.40
1:O:603:GLU:OE1	1:O:609:PRO:HG2	2.21	0.40
1:A:234:LEU:CD2	1:O:169:ILE:HG21	2.52	0.40
1:C:444:VAL:HG21	1:C:464:LYS:HE3	2.02	0.40
1:D:329:VAL:HG22	1:D:574:ILE:CG1	2.47	0.40
1:F:343:GLY:HA2	1:F:560:ASN:HA	2.03	0.40
1:G:180:MET:SD	1:G:234:LEU:HB3	2.61	0.40
1:G:550:LEU:HD23	1:G:550:LEU:HA	1.91	0.40
1:H:201:LEU:CB	1:I:189:LYS:HG3	2.52	0.40
1:I:607:THR:HG22	1:I:608:SER:N	2.37	0.40
1:K:340:ASP:HB2	1:K:417:LYS:HD3	2.03	0.40
1:K:361:THR:HG23	1:K:362:ASN:N	2.35	0.40
1:N:115:LEU:CD2	1:N:159:VAL:HG21	2.44	0.40
1:N:330:LEU:HD21	1:N:332:GLU:OE2	2.21	0.40
1:O:330:LEU:HD21	1:O:332:GLU:OE2	2.21	0.40
1:O:365:PRO:CB	1:O:389:LEU:HD11	2.51	0.40
1:B:342:ASP:OD1	1:B:561:THR:HB	2.22	0.40
1:E:341:GLY:O	1:E:415:ASN:HA	2.21	0.40
1:F:416:THR:C	1:F:417:LYS:HG2	2.41	0.40
1:G:526:LEU:HD12	1:G:568:VAL:HG12	2.03	0.40
1:H:135:ASP:HB2	1:I:163:GLY:CA	2.51	0.40
1:I:172:LEU:HD21	1:I:215:VAL:CG2	2.49	0.40
1:I:482:VAL:HG22	1:I:574:ILE:CD1	2.51	0.40
1:K:342:ASP:OD1	1:K:561:THR:HB	2.22	0.40
1:L:119:LEU:HD21	1:L:155:VAL:CG1	2.51	0.40
1:L:251:TYR:OH	1:M:477:ASN:ND2	2.54	0.40
1:M:104:VAL:HG21	1:N:158:ARG:HD2	2.03	0.40
1:M:180:MET:O	1:M:184:VAL:HG23	2.21	0.40
1:M:341:GLY:O	1:M:415:ASN:HA	2.22	0.40
1:N:339:ALA:O	1:N:418:SER:N	2.44	0.40
1:O:174:TYR:CE1	1:O:237:GLU:HB3	2.57	0.40
1:O:394:ASN:HB3	1:O:412:LEU:CD2	2.49	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	480/524 (92%)	435 (91%)	36 (8%)	9 (2%)	8	40
1	B	480/524 (92%)	435 (91%)	36 (8%)	9 (2%)	8	40
1	C	480/524 (92%)	435 (91%)	36 (8%)	9 (2%)	8	40
1	D	480/524 (92%)	434 (90%)	37 (8%)	9 (2%)	8	40
1	E	480/524 (92%)	435 (91%)	36 (8%)	9 (2%)	8	40
1	F	480/524 (92%)	434 (90%)	37 (8%)	9 (2%)	8	40
1	G	480/524 (92%)	435 (91%)	36 (8%)	9 (2%)	8	40
1	H	480/524 (92%)	435 (91%)	36 (8%)	9 (2%)	8	40
1	I	480/524 (92%)	435 (91%)	35 (7%)	10 (2%)	7	38
1	J	480/524 (92%)	436 (91%)	35 (7%)	9 (2%)	8	40
1	K	480/524 (92%)	436 (91%)	35 (7%)	9 (2%)	8	40
1	L	480/524 (92%)	435 (91%)	36 (8%)	9 (2%)	8	40
1	M	480/524 (92%)	435 (91%)	36 (8%)	9 (2%)	8	40
1	N	480/524 (92%)	434 (90%)	37 (8%)	9 (2%)	8	40
1	O	480/524 (92%)	435 (91%)	36 (8%)	9 (2%)	8	40
All	All	7200/7860 (92%)	6524 (91%)	540 (8%)	136 (2%)	11	40

All (136) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	609	PRO
1	B	609	PRO
1	C	609	PRO
1	D	609	PRO
1	E	609	PRO
1	F	609	PRO
1	G	609	PRO
1	H	609	PRO

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Mol	Chain	Res	Type
1	I	609	PRO
1	J	609	PRO
1	K	609	PRO
1	L	609	PRO
1	M	609	PRO
1	N	609	PRO
1	O	609	PRO
1	A	240	SER
1	B	240	SER
1	B	478	GLU
1	C	240	SER
1	C	478	GLU
1	D	240	SER
1	D	478	GLU
1	F	478	GLU
1	G	478	GLU
1	H	478	GLU
1	I	240	SER
1	I	478	GLU
1	J	240	SER
1	J	478	GLU
1	K	240	SER
1	K	478	GLU
1	L	240	SER
1	L	478	GLU
1	M	240	SER
1	M	478	GLU
1	N	240	SER
1	N	478	GLU
1	O	478	GLU
1	A	187	LEU
1	A	365	PRO
1	A	478	GLU
1	B	187	LEU
1	B	365	PRO
1	C	187	LEU
1	C	365	PRO
1	D	187	LEU
1	D	365	PRO
1	E	187	LEU
1	E	240	SER
1	E	365	PRO

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Mol	Chain	Res	Type
1	E	478	GLU
1	F	187	LEU
1	F	240	SER
1	F	365	PRO
1	G	187	LEU
1	G	240	SER
1	G	365	PRO
1	H	187	LEU
1	H	240	SER
1	H	365	PRO
1	I	187	LEU
1	I	365	PRO
1	J	187	LEU
1	J	365	PRO
1	K	187	LEU
1	K	365	PRO
1	L	187	LEU
1	L	365	PRO
1	M	187	LEU
1	M	365	PRO
1	N	187	LEU
1	N	365	PRO
1	O	187	LEU
1	O	240	SER
1	O	365	PRO
1	B	608	SER
1	C	608	SER
1	D	608	SER
1	E	608	SER
1	F	608	SER
1	G	608	SER
1	H	608	SER
1	I	608	SER
1	J	608	SER
1	K	608	SER
1	L	608	SER
1	M	608	SER
1	N	608	SER
1	O	608	SER
1	A	608	SER
1	B	196	GLY
1	I	196	GLY

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Mol	Chain	Res	Type
1	A	196	GLY
1	C	196	GLY
1	D	196	GLY
1	E	196	GLY
1	F	196	GLY
1	G	196	GLY
1	K	196	GLY
1	L	196	GLY
1	M	196	GLY
1	O	196	GLY
1	H	196	GLY
1	N	196	GLY
1	A	615	PRO
1	B	615	PRO
1	C	615	PRO
1	D	615	PRO
1	E	615	PRO
1	G	615	PRO
1	H	615	PRO
1	I	493	VAL
1	J	196	GLY
1	J	615	PRO
1	K	615	PRO
1	L	615	PRO
1	M	615	PRO
1	N	615	PRO
1	O	615	PRO
1	A	493	VAL
1	B	493	VAL
1	C	493	VAL
1	D	493	VAL
1	E	493	VAL
1	F	493	VAL
1	F	615	PRO
1	G	493	VAL
1	H	493	VAL
1	I	494	GLY
1	I	615	PRO
1	J	493	VAL
1	K	493	VAL
1	L	493	VAL
1	M	493	VAL

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Mol	Chain	Res	Type
1	N	493	VAL
1	O	493	VAL

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	403/426 (95%)	388 (96%)	15 (4%)	34 61
1	B	403/426 (95%)	388 (96%)	15 (4%)	34 61
1	C	403/426 (95%)	388 (96%)	15 (4%)	34 61
1	D	403/426 (95%)	388 (96%)	15 (4%)	34 61
1	E	403/426 (95%)	388 (96%)	15 (4%)	34 61
1	F	403/426 (95%)	388 (96%)	15 (4%)	34 61
1	G	403/426 (95%)	387 (96%)	16 (4%)	31 60
1	H	403/426 (95%)	389 (96%)	14 (4%)	36 63
1	I	403/426 (95%)	389 (96%)	14 (4%)	36 63
1	J	403/426 (95%)	388 (96%)	15 (4%)	34 61
1	K	403/426 (95%)	388 (96%)	15 (4%)	34 61
1	L	403/426 (95%)	388 (96%)	15 (4%)	34 61
1	M	403/426 (95%)	388 (96%)	15 (4%)	34 61
1	N	403/426 (95%)	388 (96%)	15 (4%)	34 61
1	O	403/426 (95%)	388 (96%)	15 (4%)	34 61
All	All	6045/6390 (95%)	5821 (96%)	224 (4%)	37 61

All (224) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	168	ASP
1	A	172	LEU
1	A	190	ASP
1	A	193	SER

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Mol	Chain	Res	Type
1	A	215	VAL
1	A	238	LEU
1	A	420	ILE
1	A	463	ARG
1	A	480	ASP
1	A	482	VAL
1	A	500	THR
1	A	501	ASP
1	A	503	LEU
1	A	593	ARG
1	A	616	GLU
1	B	168	ASP
1	B	172	LEU
1	B	190	ASP
1	B	193	SER
1	B	215	VAL
1	B	238	LEU
1	B	420	ILE
1	B	463	ARG
1	B	480	ASP
1	B	482	VAL
1	B	500	THR
1	B	501	ASP
1	B	503	LEU
1	B	593	ARG
1	B	616	GLU
1	C	168	ASP
1	C	172	LEU
1	C	190	ASP
1	C	193	SER
1	C	215	VAL
1	C	238	LEU
1	C	420	ILE
1	C	463	ARG
1	C	480	ASP
1	C	482	VAL
1	C	500	THR
1	C	501	ASP
1	C	503	LEU
1	C	593	ARG
1	C	616	GLU
1	D	168	ASP

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Mol	Chain	Res	Type
1	D	172	LEU
1	D	190	ASP
1	D	193	SER
1	D	215	VAL
1	D	238	LEU
1	D	420	ILE
1	D	463	ARG
1	D	480	ASP
1	D	482	VAL
1	D	500	THR
1	D	501	ASP
1	D	503	LEU
1	D	593	ARG
1	D	616	GLU
1	E	168	ASP
1	E	172	LEU
1	E	190	ASP
1	E	193	SER
1	E	215	VAL
1	E	238	LEU
1	E	241	GLN
1	E	420	ILE
1	E	463	ARG
1	E	480	ASP
1	E	482	VAL
1	E	501	ASP
1	E	503	LEU
1	E	593	ARG
1	E	616	GLU
1	F	168	ASP
1	F	172	LEU
1	F	190	ASP
1	F	193	SER
1	F	215	VAL
1	F	238	LEU
1	F	420	ILE
1	F	463	ARG
1	F	480	ASP
1	F	482	VAL
1	F	500	THR
1	F	501	ASP
1	F	503	LEU

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Mol	Chain	Res	Type
1	F	593	ARG
1	F	616	GLU
1	G	168	ASP
1	G	172	LEU
1	G	190	ASP
1	G	193	SER
1	G	215	VAL
1	G	238	LEU
1	G	241	GLN
1	G	420	ILE
1	G	463	ARG
1	G	480	ASP
1	G	482	VAL
1	G	500	THR
1	G	501	ASP
1	G	503	LEU
1	G	593	ARG
1	G	616	GLU
1	H	172	LEU
1	H	190	ASP
1	H	193	SER
1	H	215	VAL
1	H	238	LEU
1	H	420	ILE
1	H	463	ARG
1	H	480	ASP
1	H	482	VAL
1	H	500	THR
1	H	501	ASP
1	H	503	LEU
1	H	593	ARG
1	H	616	GLU
1	I	172	LEU
1	I	176	SER
1	I	190	ASP
1	I	215	VAL
1	I	238	LEU
1	I	420	ILE
1	I	463	ARG
1	I	480	ASP
1	I	482	VAL
1	I	500	THR

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Mol	Chain	Res	Type
1	I	501	ASP
1	I	503	LEU
1	I	593	ARG
1	I	616	GLU
1	J	168	ASP
1	J	172	LEU
1	J	190	ASP
1	J	193	SER
1	J	215	VAL
1	J	238	LEU
1	J	420	ILE
1	J	463	ARG
1	J	480	ASP
1	J	482	VAL
1	J	500	THR
1	J	501	ASP
1	J	503	LEU
1	J	593	ARG
1	J	616	GLU
1	K	168	ASP
1	K	172	LEU
1	K	190	ASP
1	K	193	SER
1	K	215	VAL
1	K	238	LEU
1	K	420	ILE
1	K	463	ARG
1	K	480	ASP
1	K	482	VAL
1	K	500	THR
1	K	501	ASP
1	K	503	LEU
1	K	593	ARG
1	K	616	GLU
1	L	168	ASP
1	L	172	LEU
1	L	190	ASP
1	L	193	SER
1	L	215	VAL
1	L	238	LEU
1	L	420	ILE
1	L	463	ARG

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Mol	Chain	Res	Type
1	L	480	ASP
1	L	482	VAL
1	L	500	THR
1	L	501	ASP
1	L	503	LEU
1	L	593	ARG
1	L	616	GLU
1	M	168	ASP
1	M	172	LEU
1	M	190	ASP
1	M	193	SER
1	M	215	VAL
1	M	238	LEU
1	M	420	ILE
1	M	463	ARG
1	M	480	ASP
1	M	482	VAL
1	M	500	THR
1	M	501	ASP
1	M	503	LEU
1	M	593	ARG
1	M	616	GLU
1	N	168	ASP
1	N	172	LEU
1	N	190	ASP
1	N	193	SER
1	N	215	VAL
1	N	238	LEU
1	N	420	ILE
1	N	463	ARG
1	N	480	ASP
1	N	482	VAL
1	N	500	THR
1	N	501	ASP
1	N	503	LEU
1	N	593	ARG
1	N	616	GLU
1	O	168	ASP
1	O	172	LEU
1	O	190	ASP
1	O	193	SER
1	O	215	VAL

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Mol	Chain	Res	Type
1	O	238	LEU
1	O	420	ILE
1	O	463	ARG
1	O	480	ASP
1	O	482	VAL
1	O	500	THR
1	O	501	ASP
1	O	503	LEU
1	O	593	ARG
1	O	616	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (71) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	186	ASN
1	A	328	GLN
1	A	477	ASN
1	B	186	ASN
1	B	328	GLN
1	B	445	GLN
1	B	477	ASN
1	B	488	GLN
1	C	186	ASN
1	C	328	GLN
1	C	445	GLN
1	C	477	ASN
1	D	186	ASN
1	D	328	GLN
1	D	445	GLN
1	D	477	ASN
1	E	186	ASN
1	E	440	GLN
1	E	477	ASN
1	E	488	GLN
1	E	496	GLN
1	F	243	ASN
1	F	328	GLN
1	F	445	GLN
1	F	477	ASN
1	F	488	GLN
1	G	188	ASN
1	G	328	GLN

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Mol	Chain	Res	Type
1	G	445	GLN
1	G	477	ASN
1	G	488	GLN
1	H	133	HIS
1	H	188	ASN
1	H	328	GLN
1	H	445	GLN
1	H	477	ASN
1	H	488	GLN
1	I	109	ASN
1	I	188	ASN
1	I	328	GLN
1	I	445	GLN
1	I	477	ASN
1	J	186	ASN
1	J	328	GLN
1	J	445	GLN
1	J	488	GLN
1	K	186	ASN
1	K	328	GLN
1	K	445	GLN
1	K	477	ASN
1	K	488	GLN
1	L	186	ASN
1	L	328	GLN
1	L	445	GLN
1	L	477	ASN
1	L	488	GLN
1	M	186	ASN
1	M	328	GLN
1	M	445	GLN
1	M	477	ASN
1	M	488	GLN
1	N	243	ASN
1	N	328	GLN
1	N	445	GLN
1	N	477	ASN
1	N	488	GLN
1	O	186	ASN
1	O	328	GLN
1	O	445	GLN
1	O	477	ASN

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Mol	Chain	Res	Type
1	O	488	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

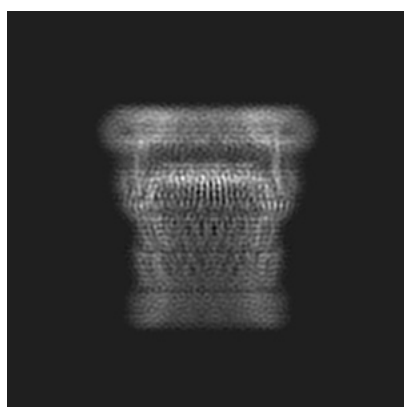
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-0326. These allow visual inspection of the internal detail of the map and identification of artifacts.

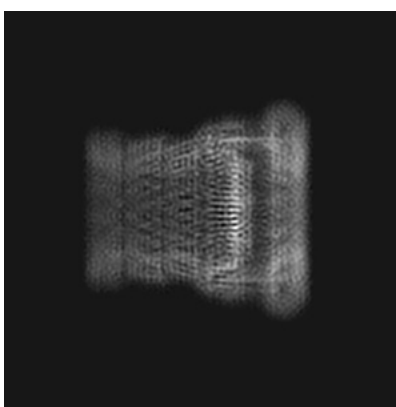
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

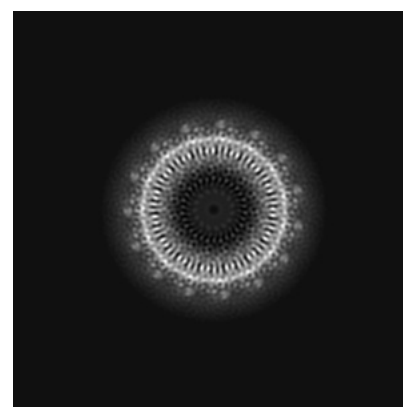
6.1.1 Primary map



X



Y

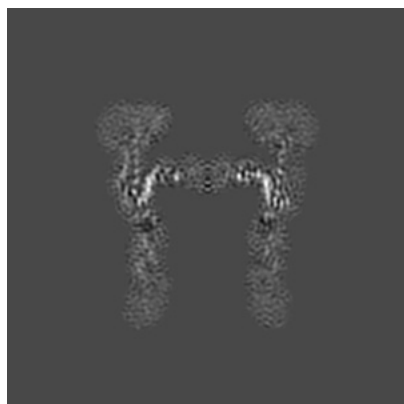


Z

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

6.2 Central slices [i](#)

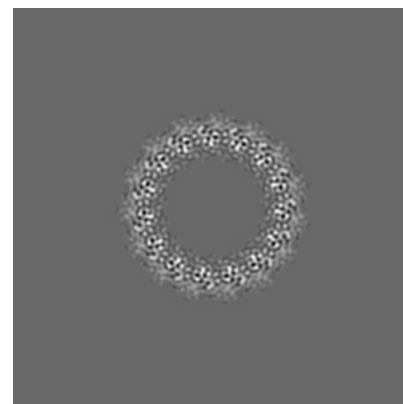
6.2.1 Primary map



X Index: 125



Y Index: 125



Z Index: 125

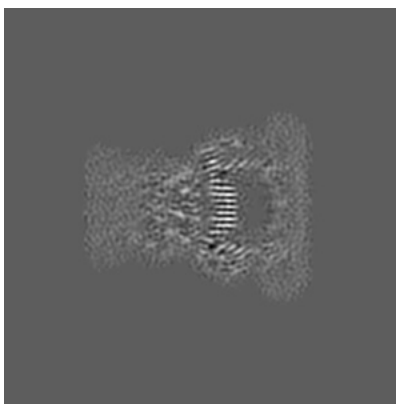
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

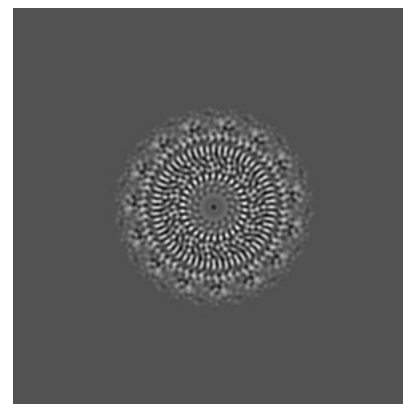
6.3.1 Primary map



X Index: 89



Y Index: 89

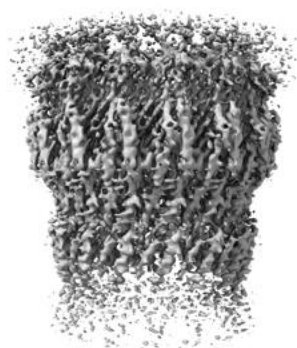


Z Index: 143

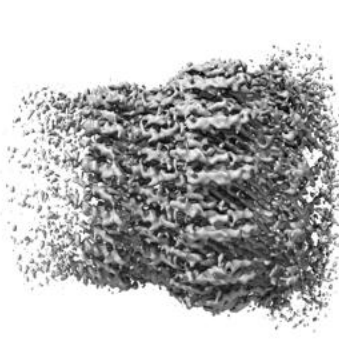
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

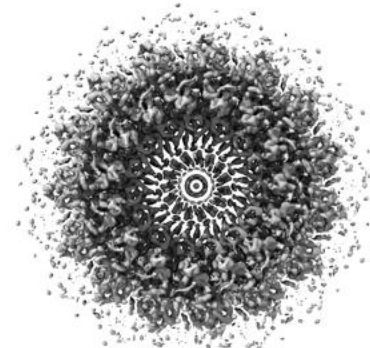
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.04595. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

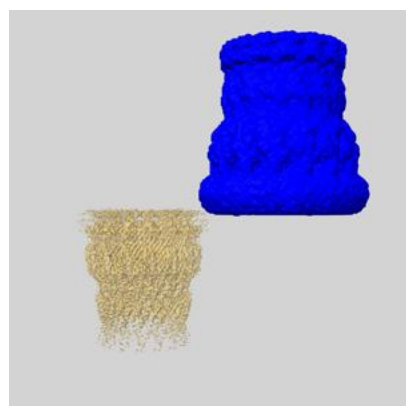
6.5 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

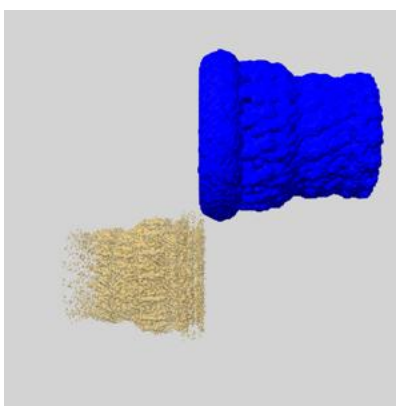
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

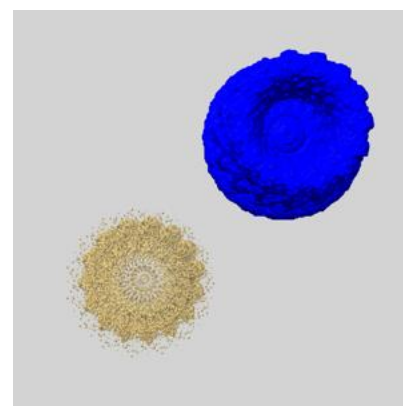
6.5.1 emd_0326_msk_1.map [i](#)



X



Y

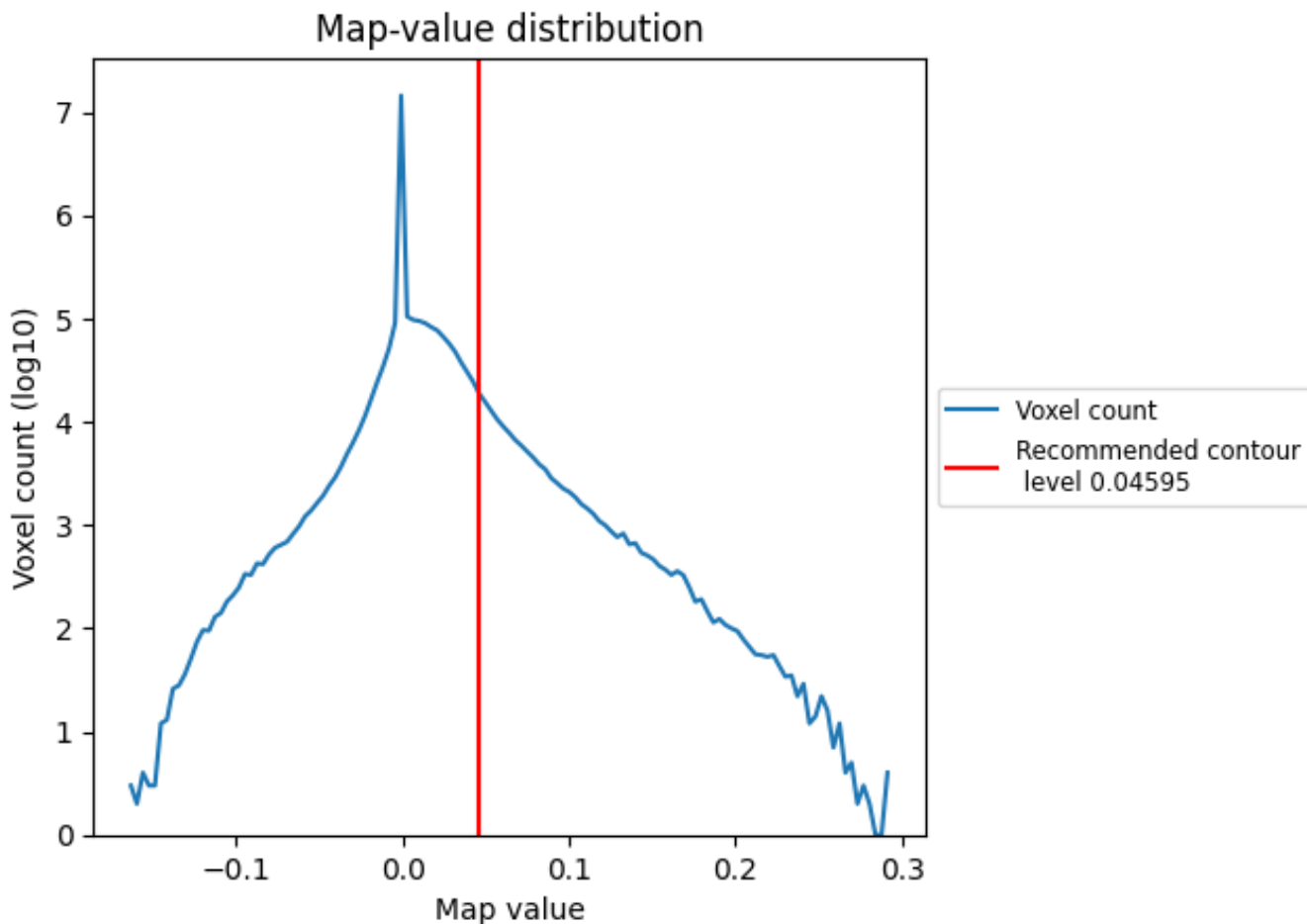


Z

7 Map analysis [i](#)

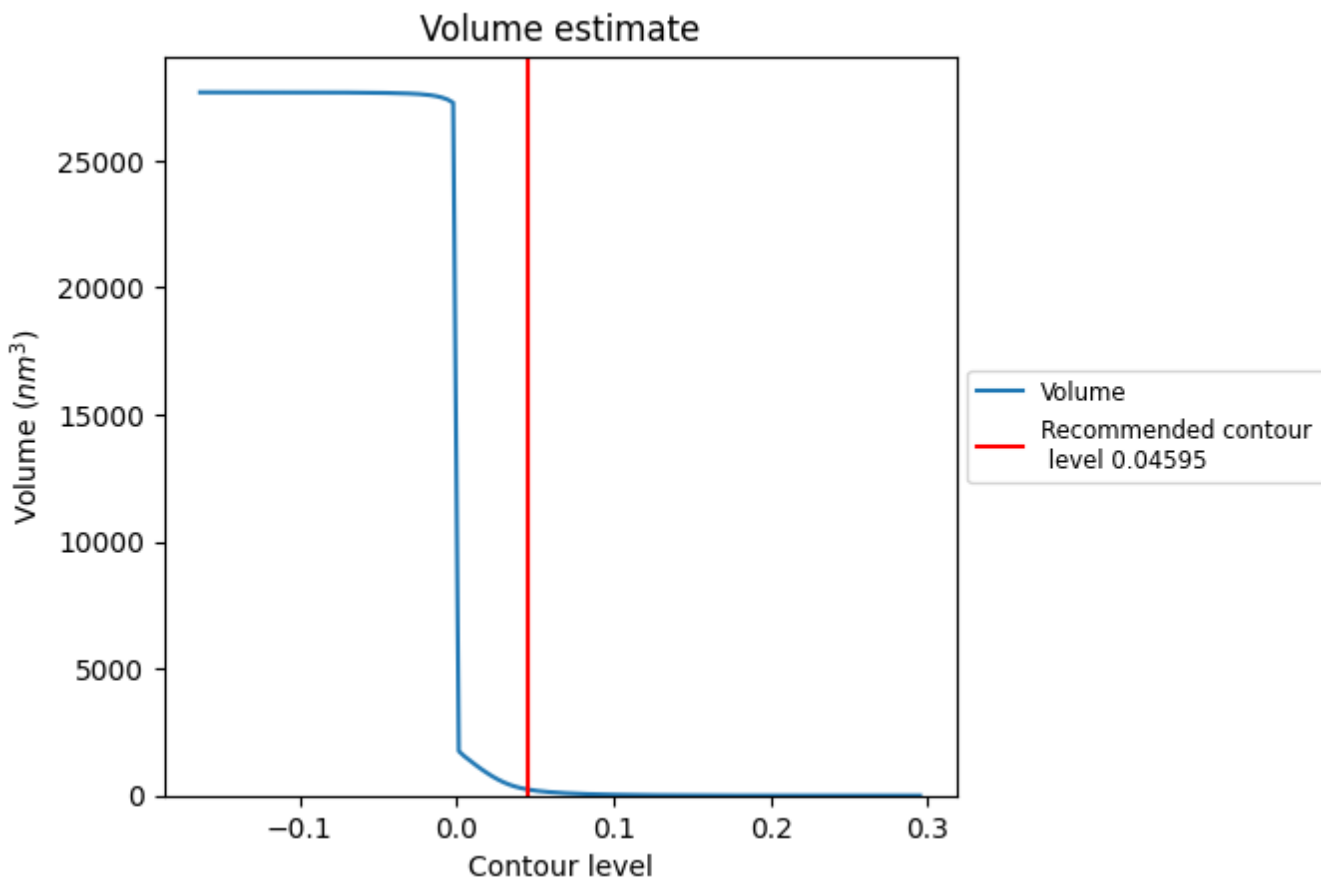
This section contains the results of statistical analysis of the map.

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.

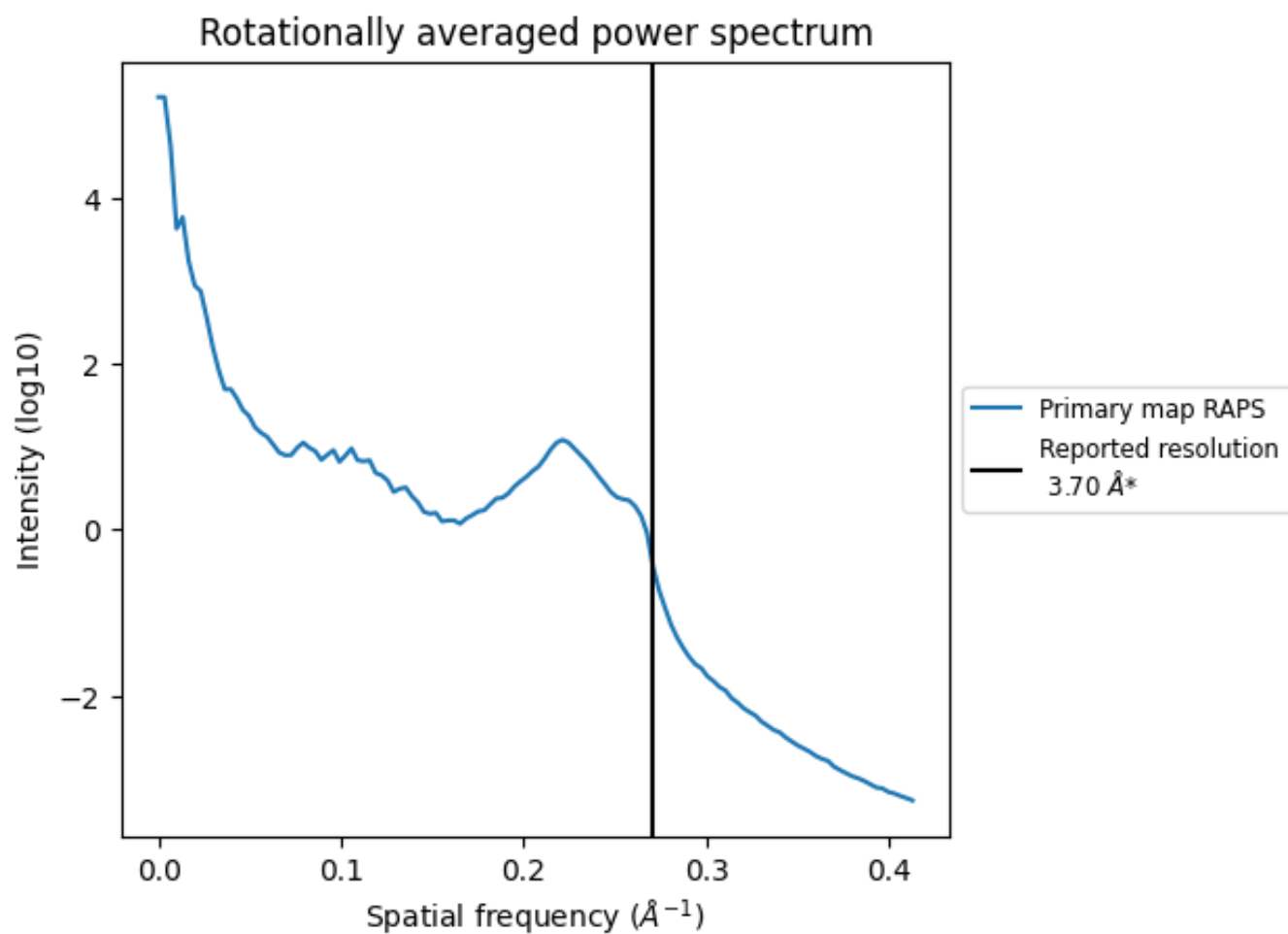
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 235 nm³; this corresponds to an approximate mass of 212 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](#)

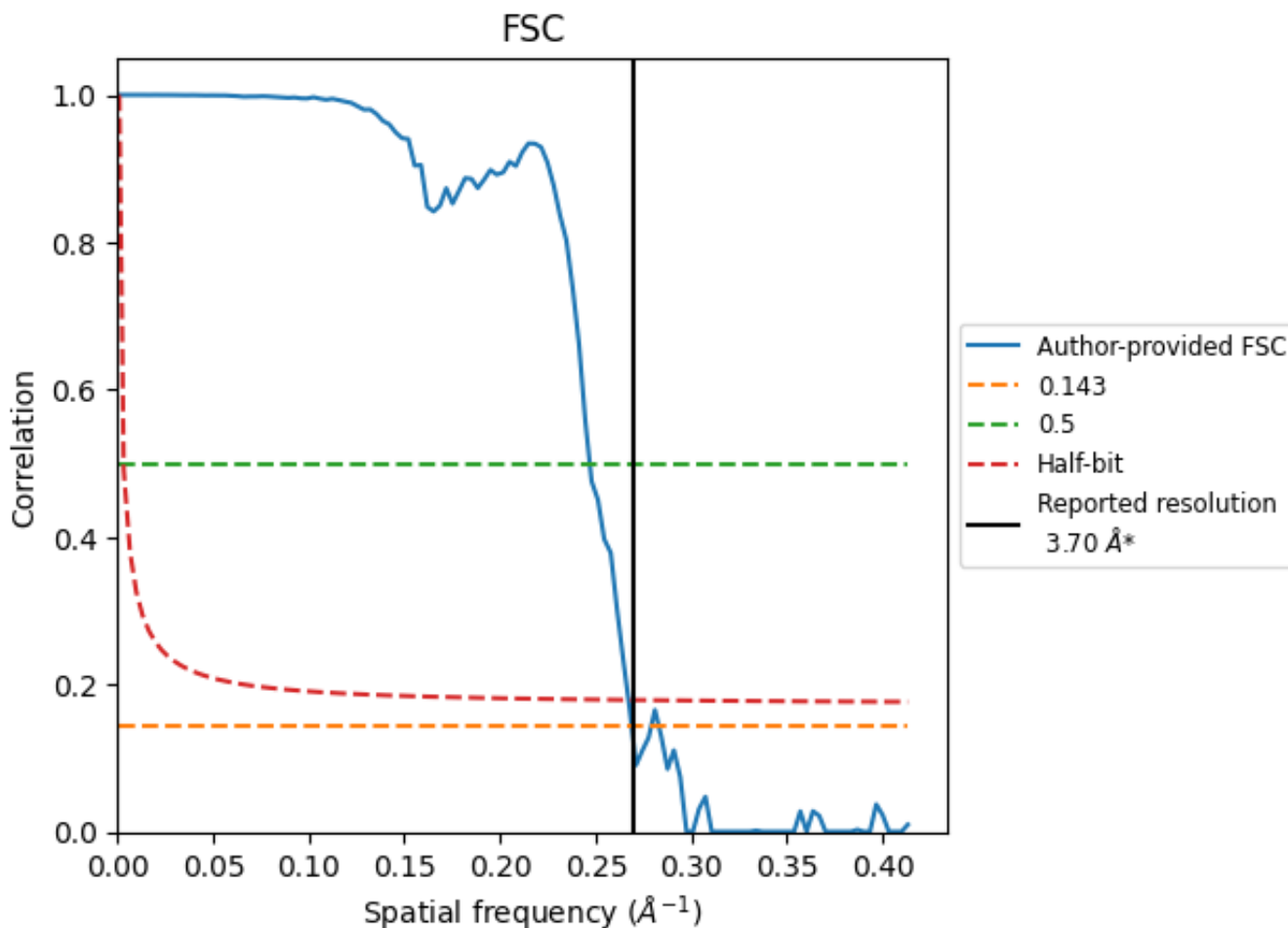


*Reported resolution corresponds to spatial frequency of 0.270 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.270 Å⁻¹

8.2 Resolution estimates [i](#)

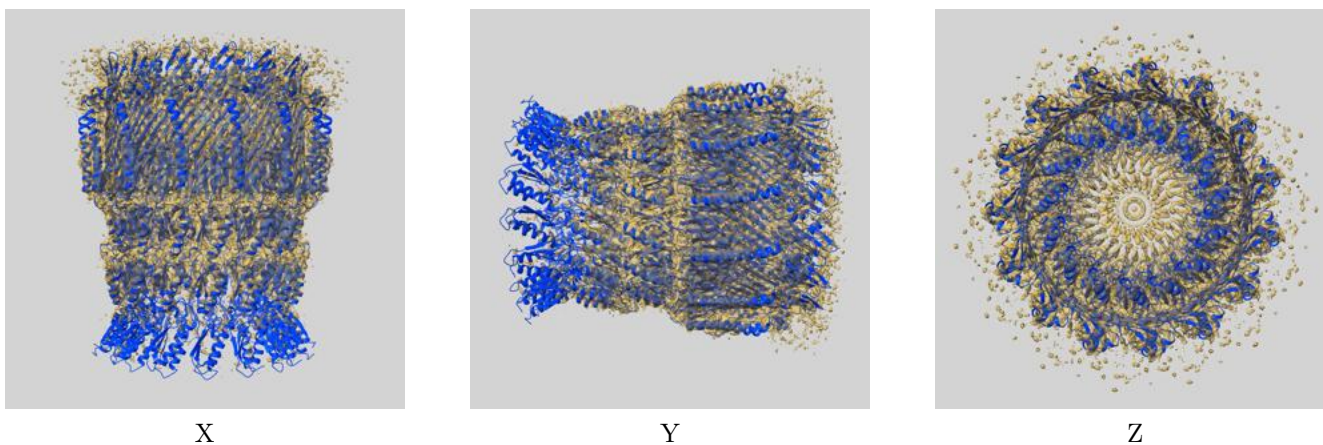
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.70	-	-
Author-provided FSC curve	3.72	4.05	3.74
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

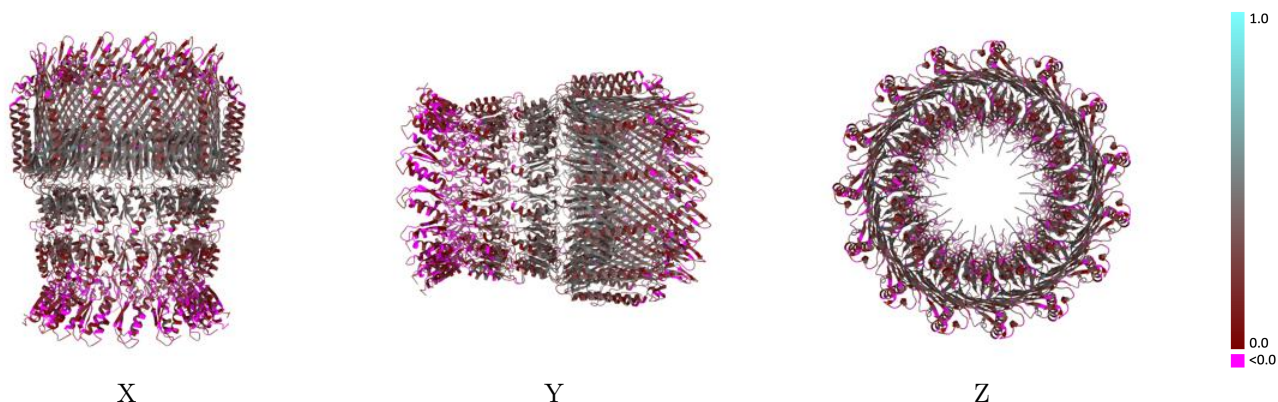
This section contains information regarding the fit between EMDB map EMD-0326 and PDB model 6I1X. Per-residue inclusion information can be found in section 3 on page 6.

9.1 Map-model overlay [i](#)



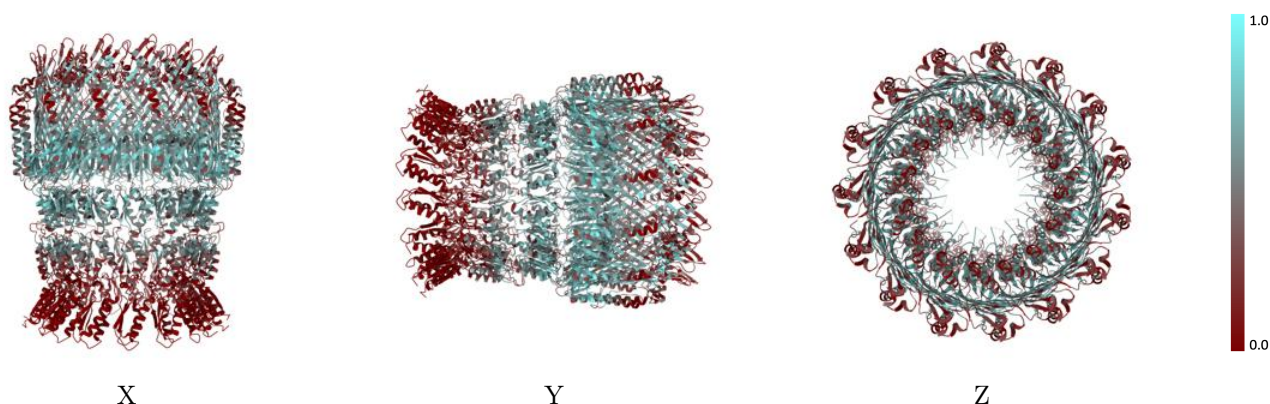
The images above show the 3D surface view of the map at the recommended contour level 0.04595 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



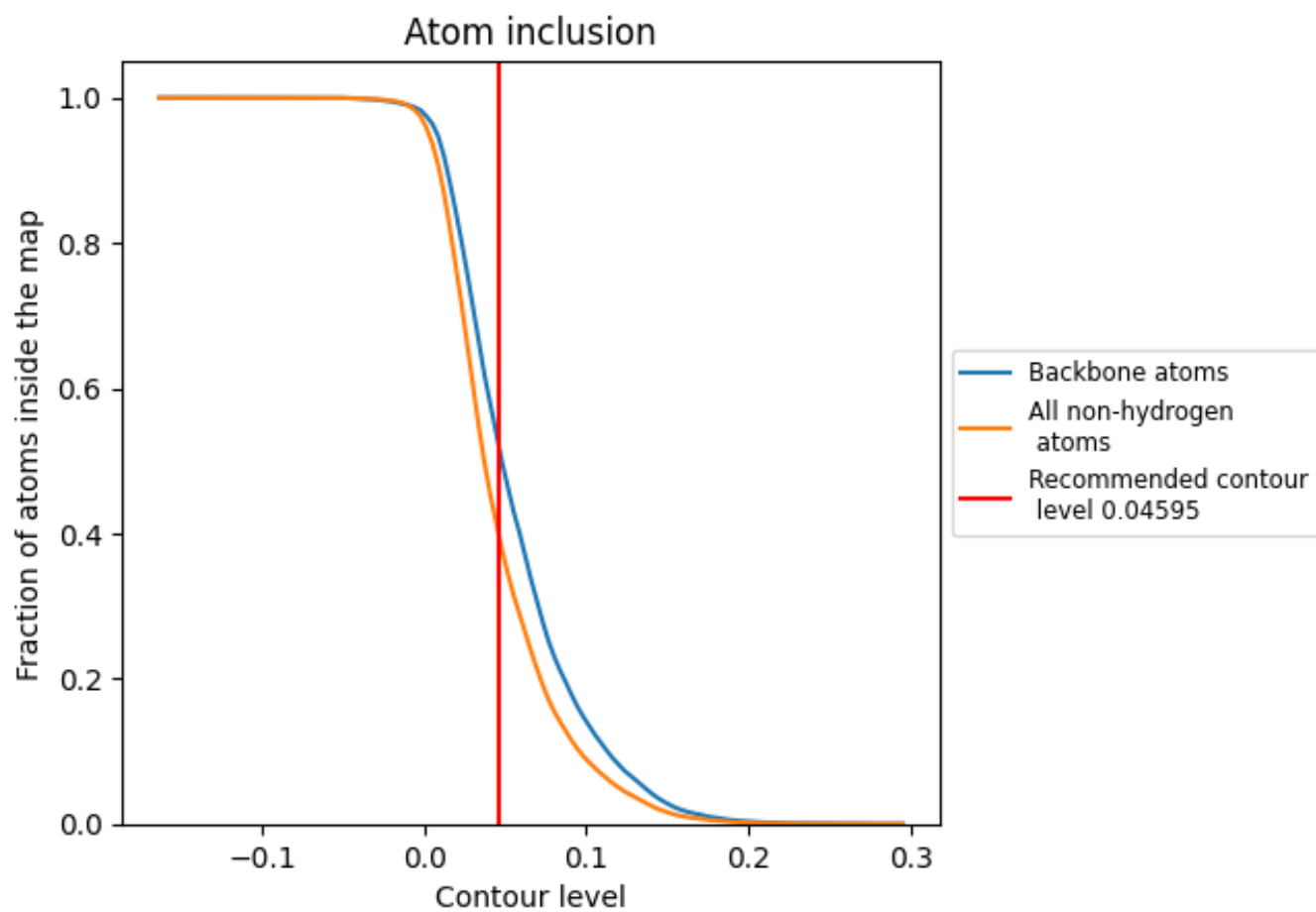
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.04595).

9.4 Atom inclusion [i](#)



At the recommended contour level, 52% of all backbone atoms, 40% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (0.04595) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.3979	0.2530
A	0.4055	0.2650
B	0.4019	0.2600
C	0.4030	0.2590
D	0.3972	0.2550
E	0.3958	0.2500
F	0.3927	0.2370
G	0.3936	0.2340
H	0.3947	0.2500
I	0.3849	0.2390
J	0.3997	0.2580
K	0.3991	0.2560
L	0.3997	0.2580
M	0.4005	0.2570
N	0.3994	0.2560
O	0.4016	0.2580

