Full wwPDB EM Validation Report ⓘ

Nov 20, 2022 – 10:55 am GMT

PDB ID	:	6I1Y
EMDB ID	:	EMD-0327
Title	:	Vibrio vulnificus EpsD
Authors	:	Contreras-Martel, C.; Farias Estrozi, L.
Deposited on	:	2018-10-30
Resolution	:	3.40 Å(reported)
Based on initial model	:	5WQ8

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:

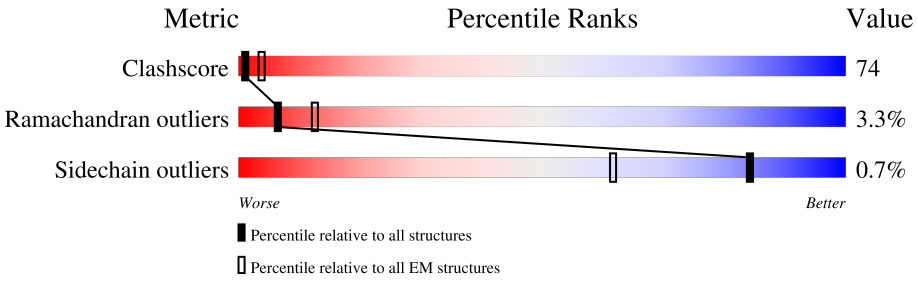
EMDB validation analysis	:	0.0.1.dev43
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.2

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 3.40 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=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	553	27% 28% 56% 5% • 10%
1	B	553	27% 28% 56% 5% • 10%
1	C	553	26% 28% 56% 5% • 10%
1	D	553	27% 28% 56% 5% • 10%
1	E	553	27% 28% 56% 5% • 10%
1	F	553	27% 28% 56% 5% • 10%
1	G	553	27% 28% 56% 5% • 10%
1	H	553	27% 28% 56% 5% • 10%

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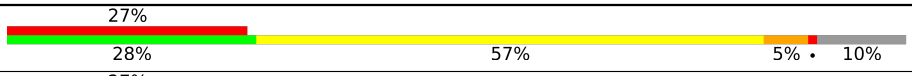
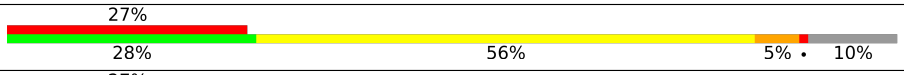
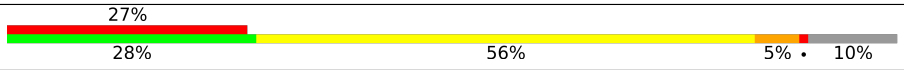
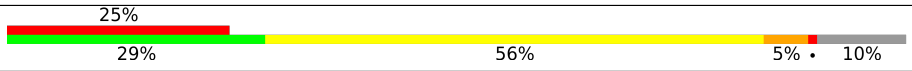
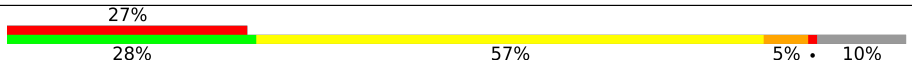
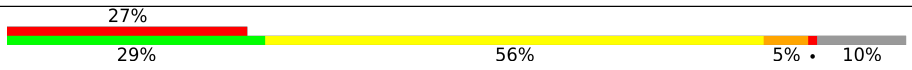
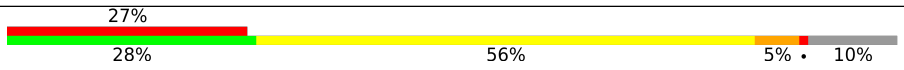
Mol	Chain	Length	Quality of chain
1	I	553	
1	J	553	
1	K	553	
1	L	553	
1	M	553	
1	N	553	
1	O	553	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 56520 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 General secretion pathway protein GspD.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	B	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	C	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	D	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	E	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	F	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	G	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	H	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	I	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	J	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	K	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	L	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	M	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	N	496	Total 3768	C 2355	N 664	O 736	S 13	0	0
1	O	496	Total 3768	C 2355	N 664	O 736	S 13	0	0

There are 30 discrepancies between the modelled and reference sequences:

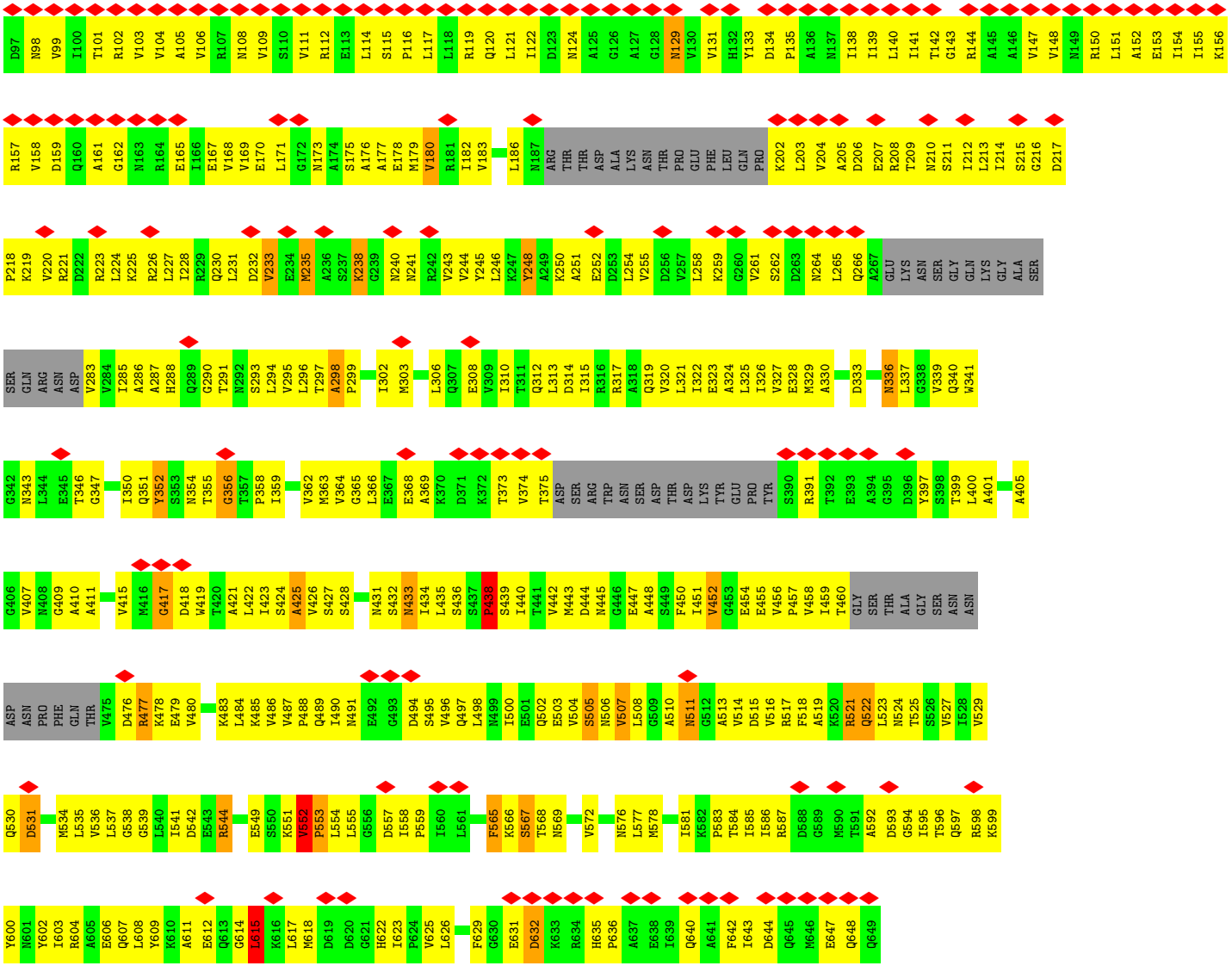
Chain	Residue	Modelled	Actual	Comment	Reference
A	163	ASN	ASP	conflict	UNP A0A087IFK6
A	164	ARG	THR	conflict	UNP A0A087IFK6
B	163	ASN	ASP	conflict	UNP A0A087IFK6
B	164	ARG	THR	conflict	UNP A0A087IFK6
C	163	ASN	ASP	conflict	UNP A0A087IFK6
C	164	ARG	THR	conflict	UNP A0A087IFK6
D	163	ASN	ASP	conflict	UNP A0A087IFK6
D	164	ARG	THR	conflict	UNP A0A087IFK6
E	163	ASN	ASP	conflict	UNP A0A087IFK6
E	164	ARG	THR	conflict	UNP A0A087IFK6
F	163	ASN	ASP	conflict	UNP A0A087IFK6
F	164	ARG	THR	conflict	UNP A0A087IFK6
G	163	ASN	ASP	conflict	UNP A0A087IFK6
G	164	ARG	THR	conflict	UNP A0A087IFK6
H	163	ASN	ASP	conflict	UNP A0A087IFK6
H	164	ARG	THR	conflict	UNP A0A087IFK6
I	163	ASN	ASP	conflict	UNP A0A087IFK6
I	164	ARG	THR	conflict	UNP A0A087IFK6
J	163	ASN	ASP	conflict	UNP A0A087IFK6
J	164	ARG	THR	conflict	UNP A0A087IFK6
K	163	ASN	ASP	conflict	UNP A0A087IFK6
K	164	ARG	THR	conflict	UNP A0A087IFK6
L	163	ASN	ASP	conflict	UNP A0A087IFK6
L	164	ARG	THR	conflict	UNP A0A087IFK6
M	163	ASN	ASP	conflict	UNP A0A087IFK6
M	164	ARG	THR	conflict	UNP A0A087IFK6
N	163	ASN	ASP	conflict	UNP A0A087IFK6
N	164	ARG	THR	conflict	UNP A0A087IFK6
O	163	ASN	ASP	conflict	UNP A0A087IFK6
O	164	ARG	THR	conflict	UNP A0A087IFK6

3 Residue-property plots (i)

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.

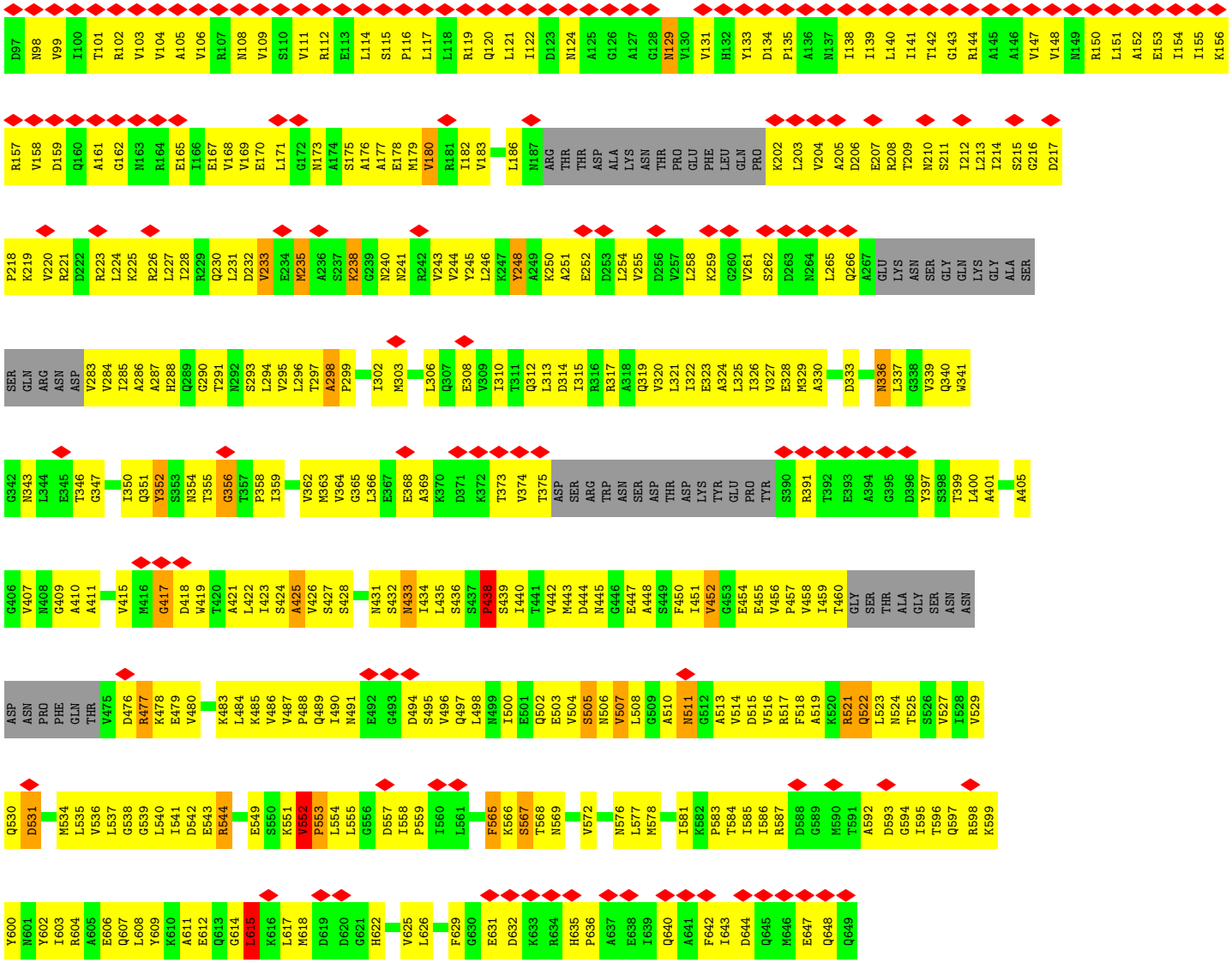
• Molecule 1: General secretion pathway protein GspD

Chain A:



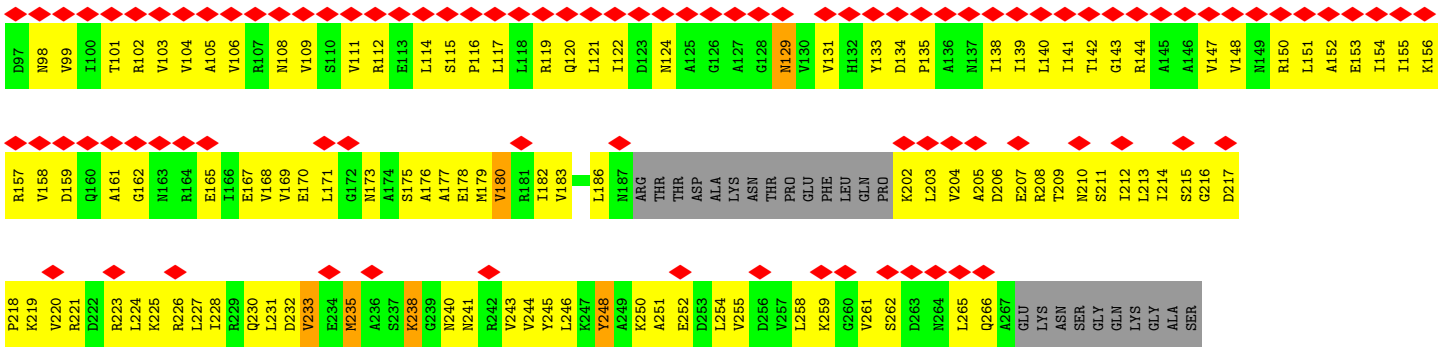
• Molecule 1: General secretion pathway protein GspD

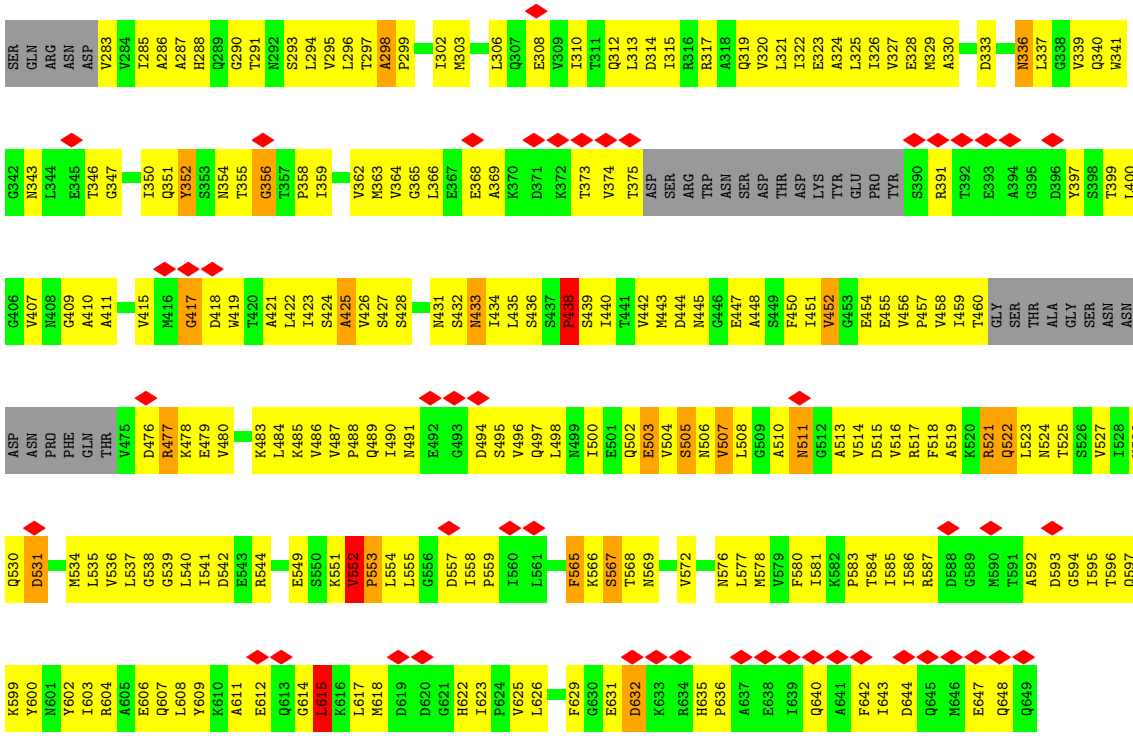
Chain B:



• Molecule 1: General secretion pathway protein GspD

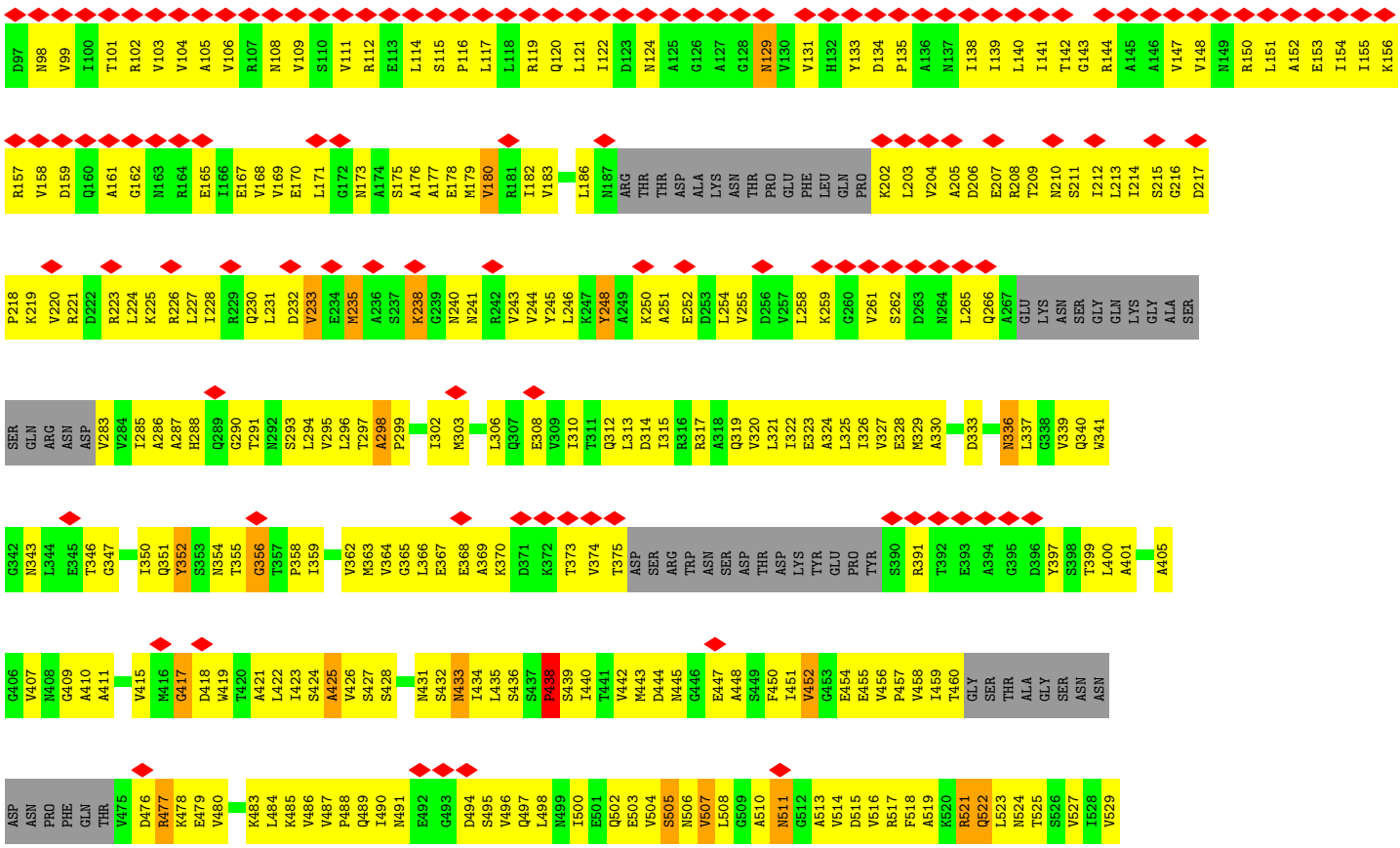
Chain C:

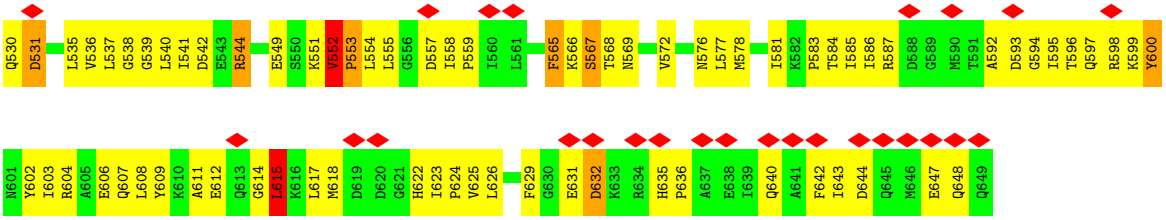




• Molecule 1: General secretion pathway protein GspD

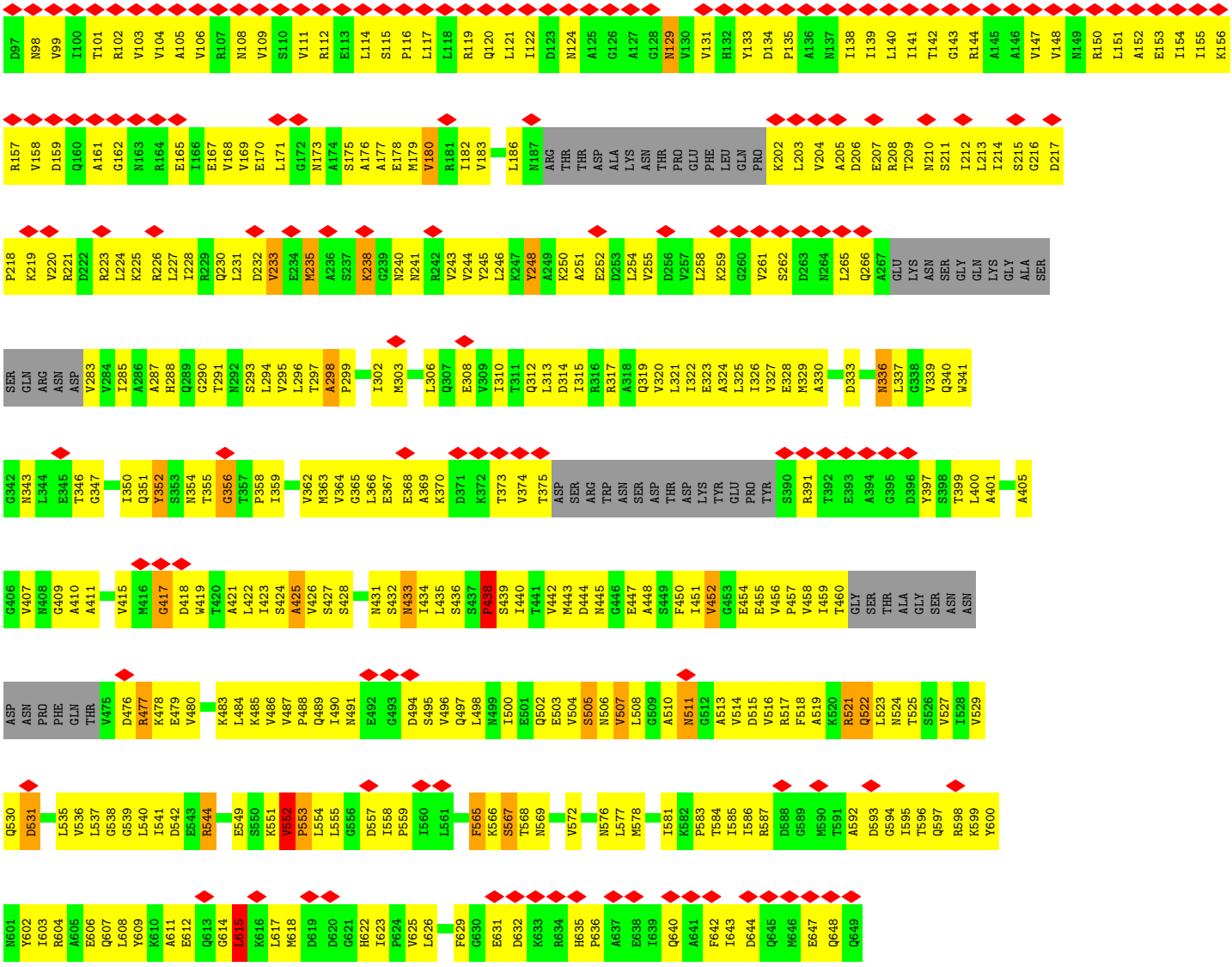
Chain D:





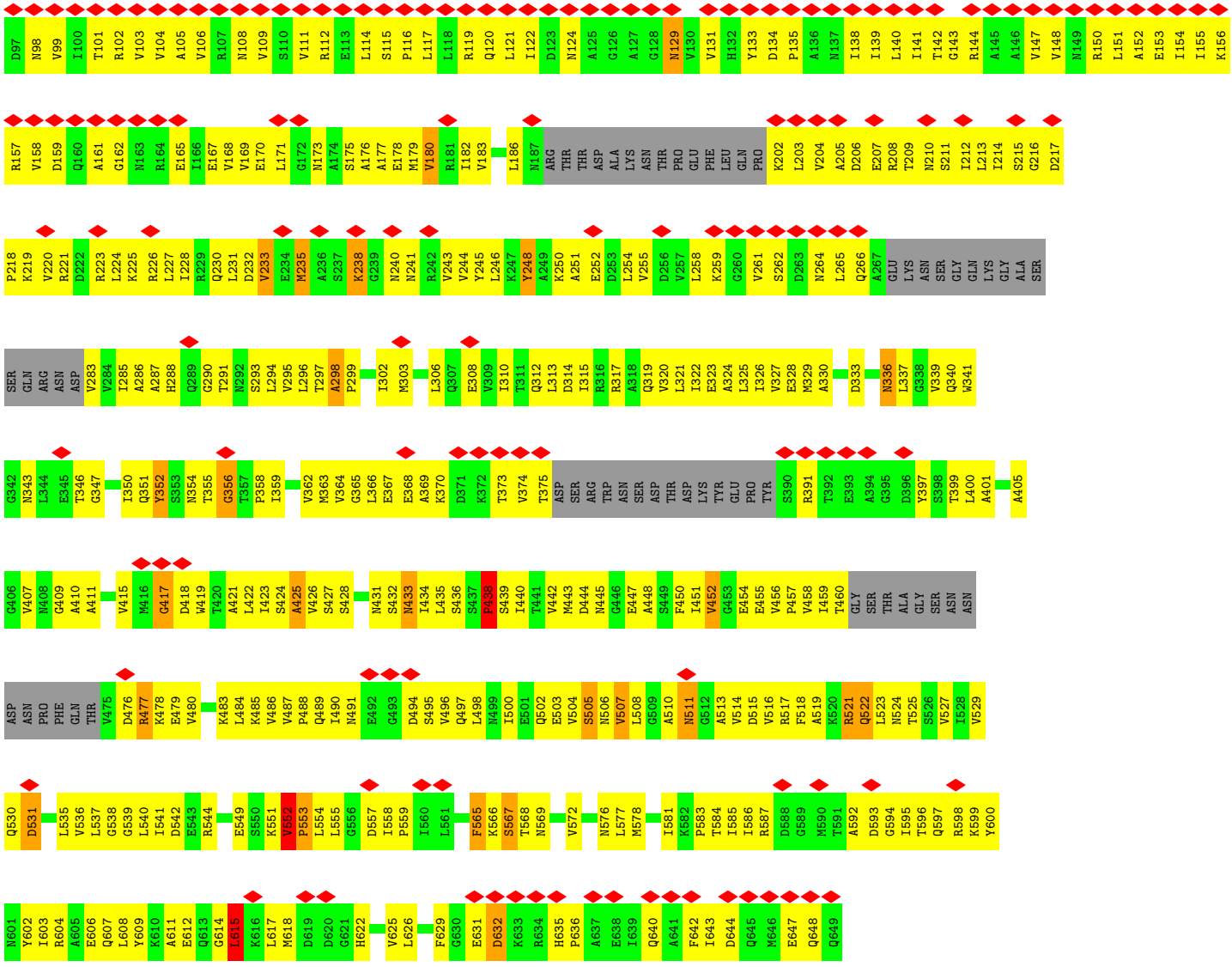
• Molecule 1: General secretion pathway protein GspD

Chain E:



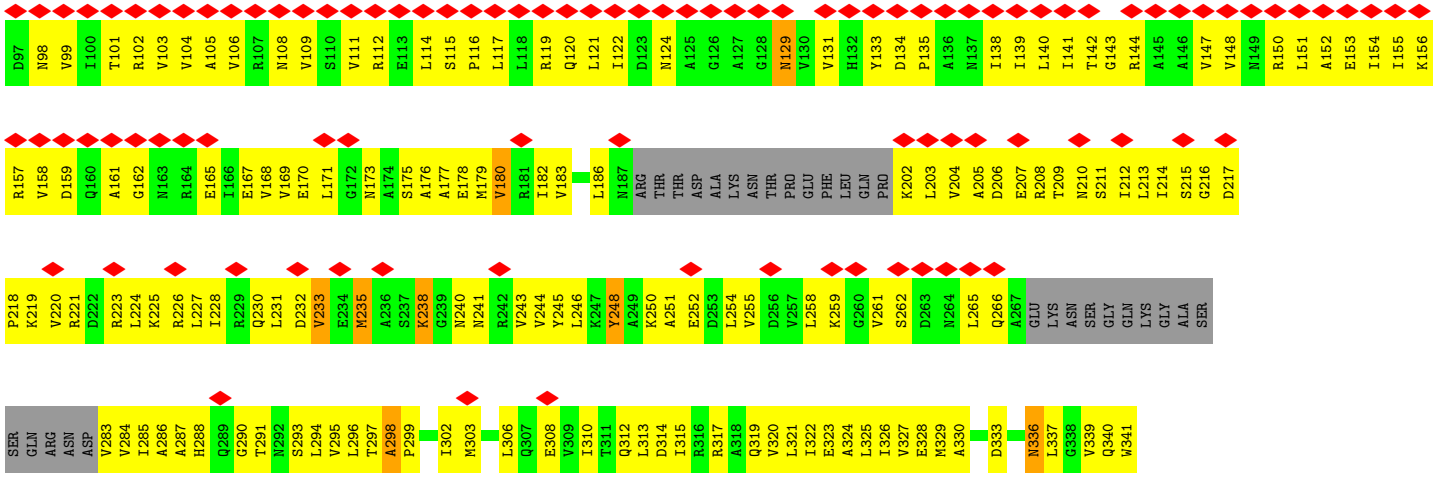
• Molecule 1: General secretion pathway protein GspD

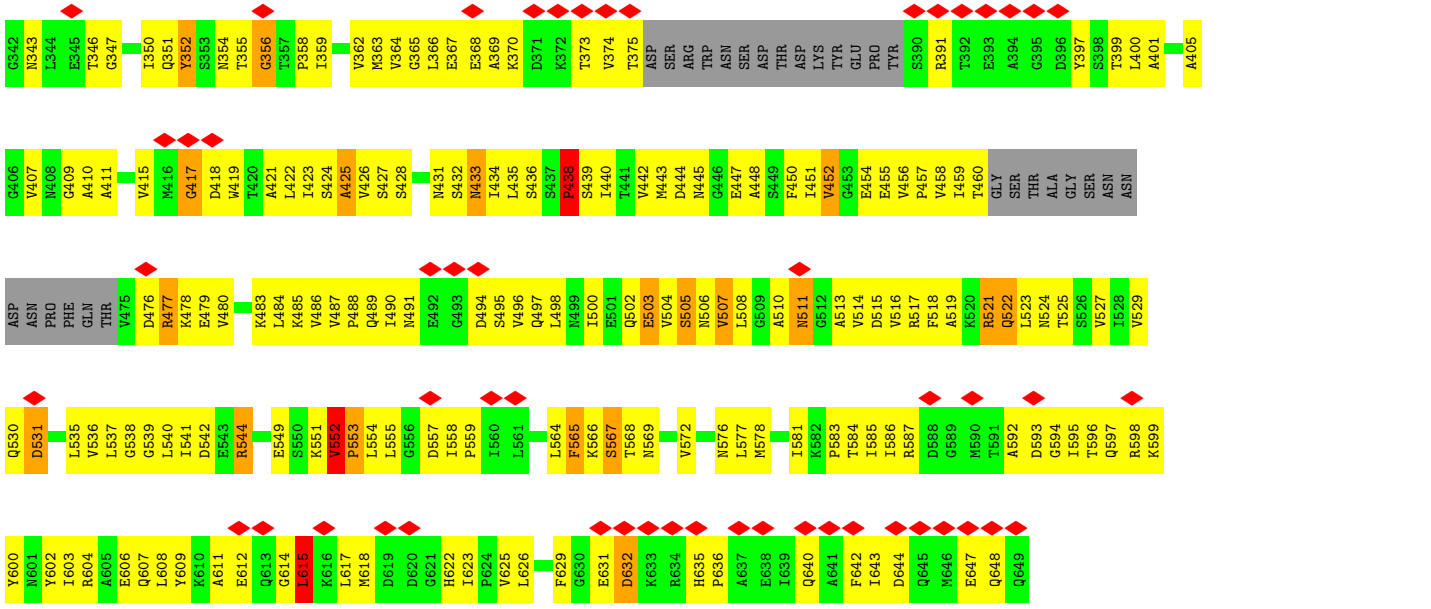
Chain F:



• Molecule 1: General secretion pathway protein GspD

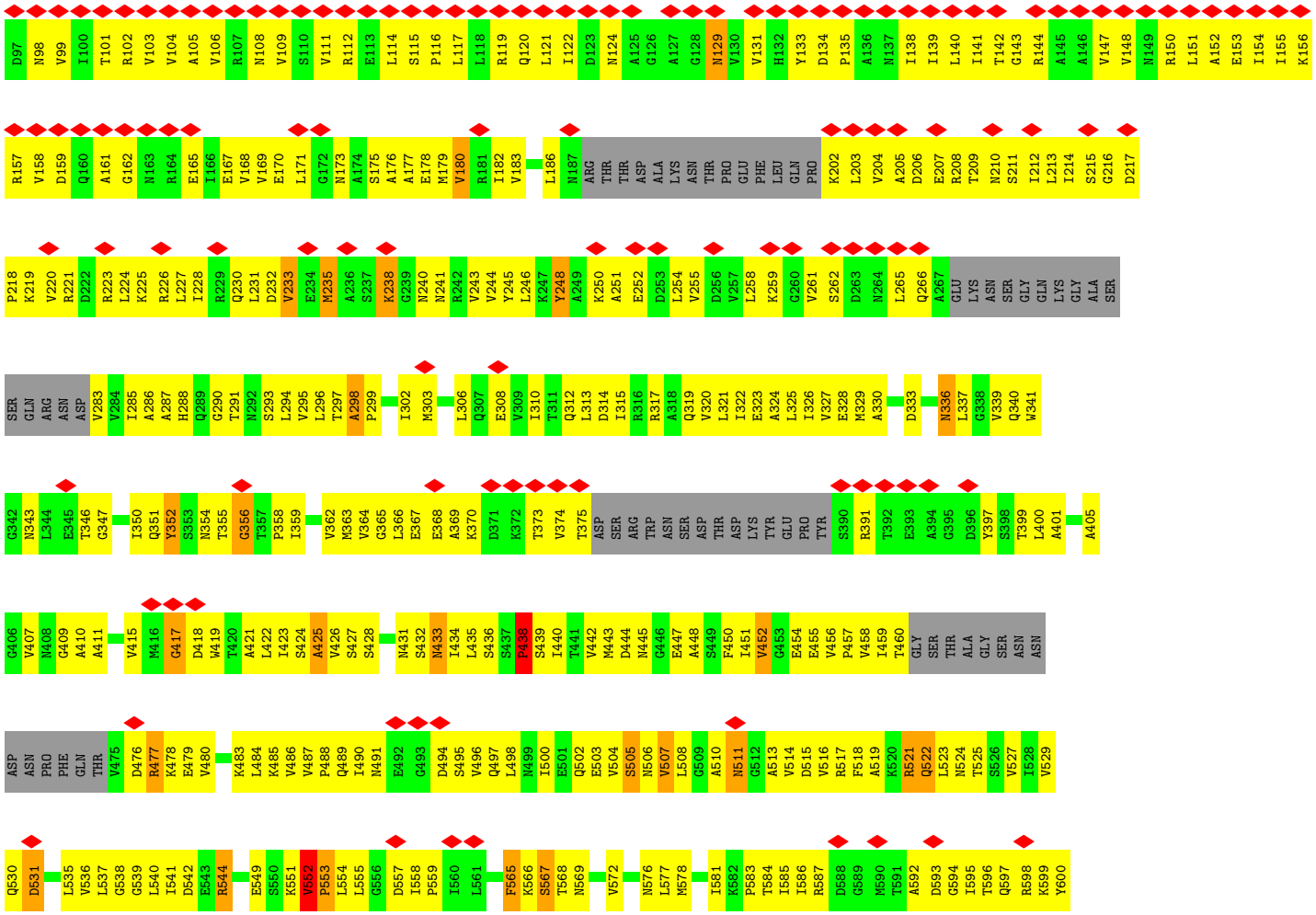
Chain G:

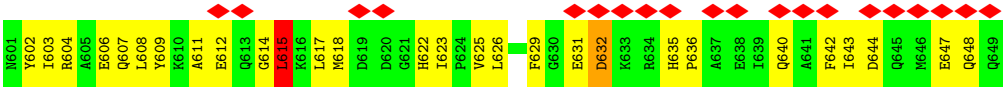




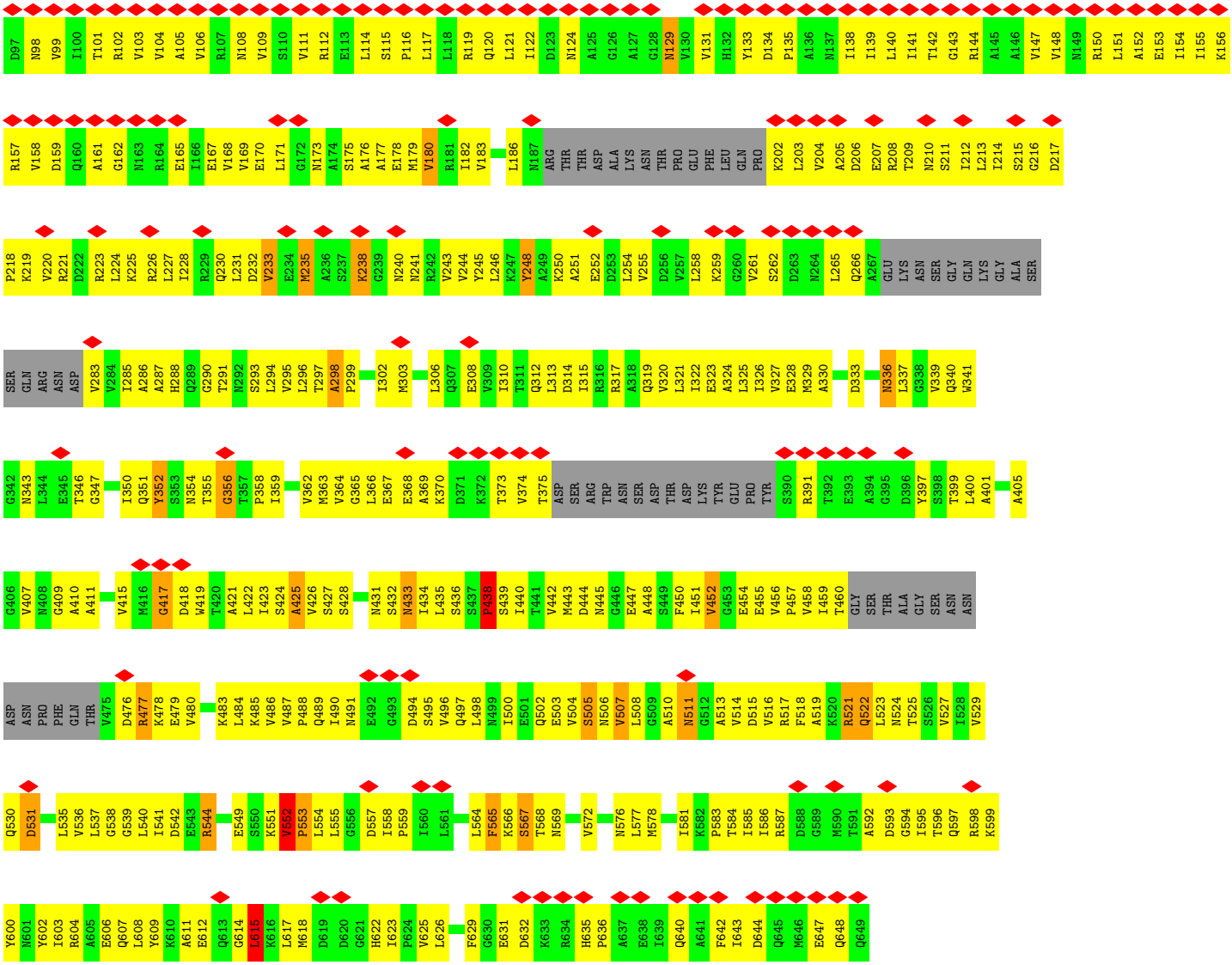
• Molecule 1: General secretion pathway protein GspD

Chain H:

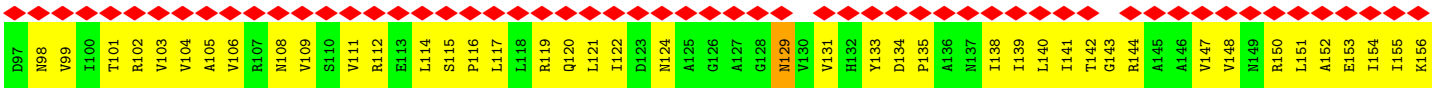


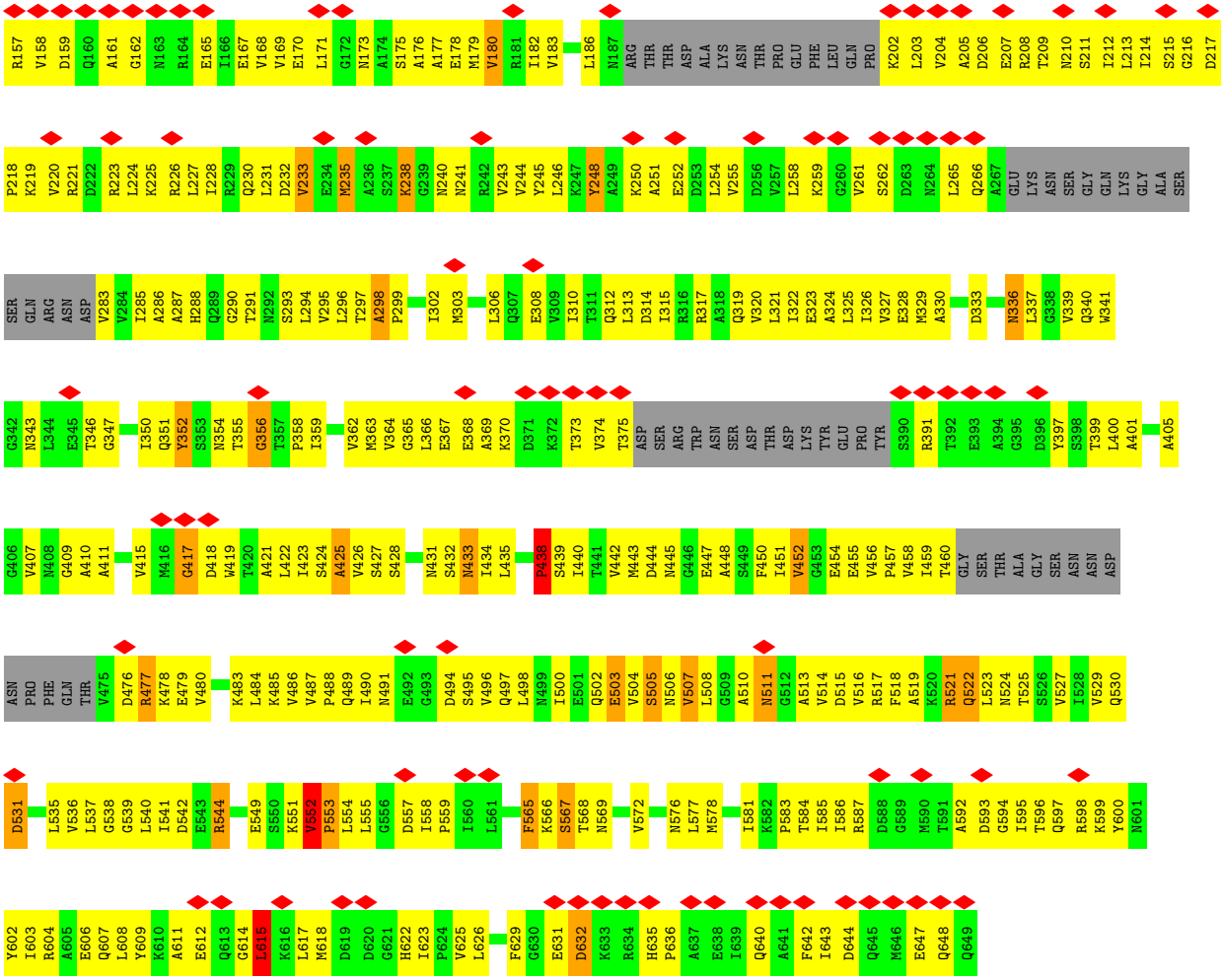


• Molecule 1: General secretion pathway protein GspD



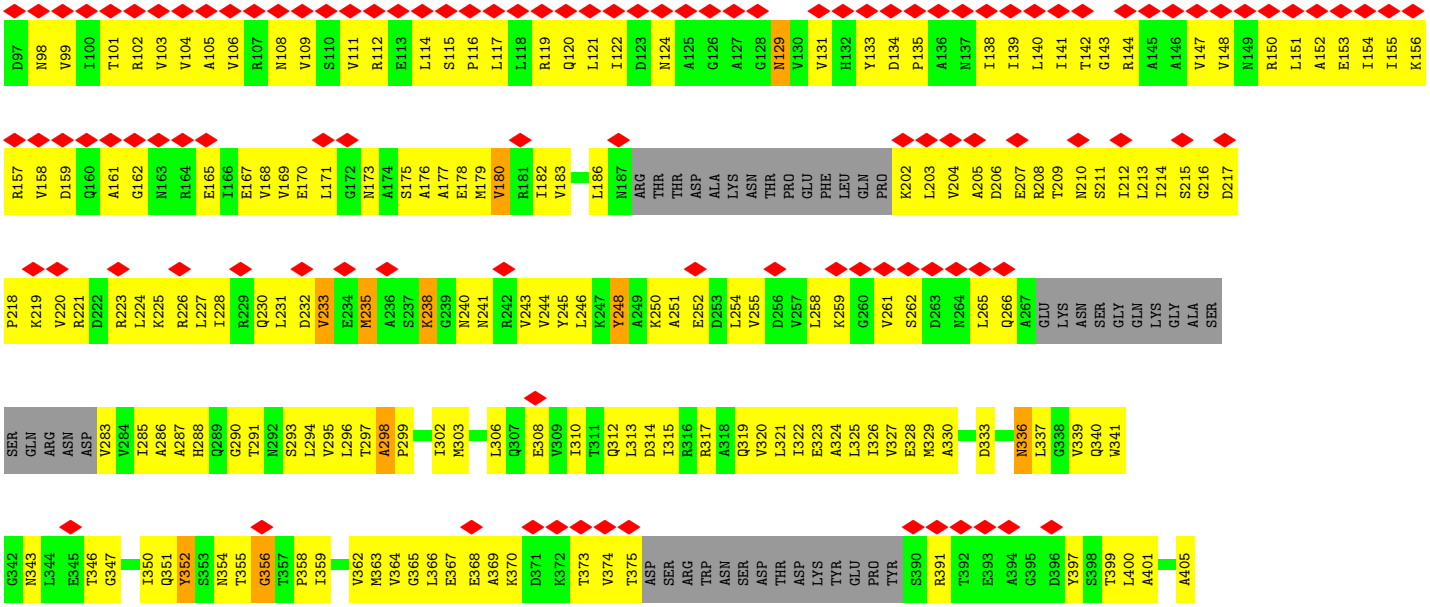
• Molecule 1: General secretion pathway protein GspD

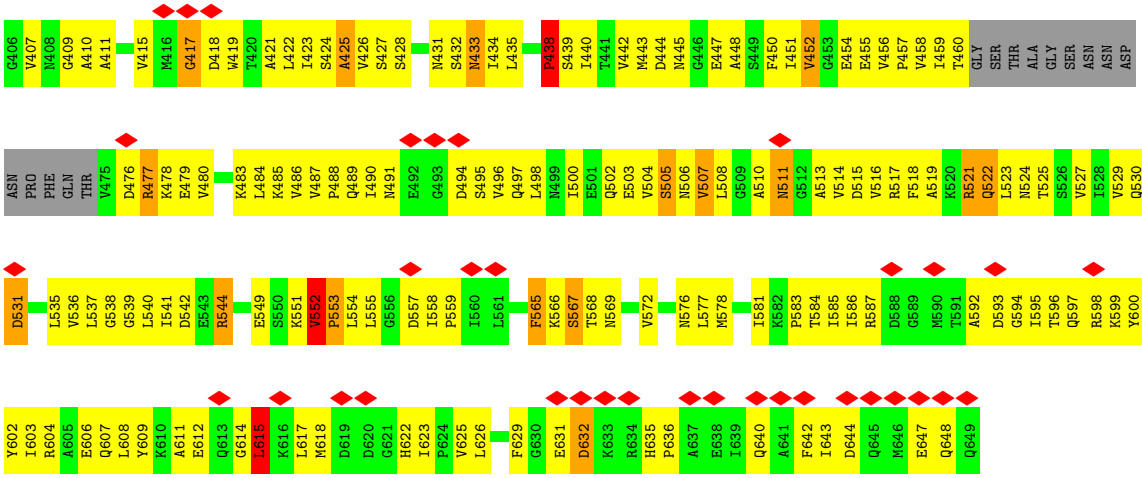




• Molecule 1: General secretion pathway protein GspD

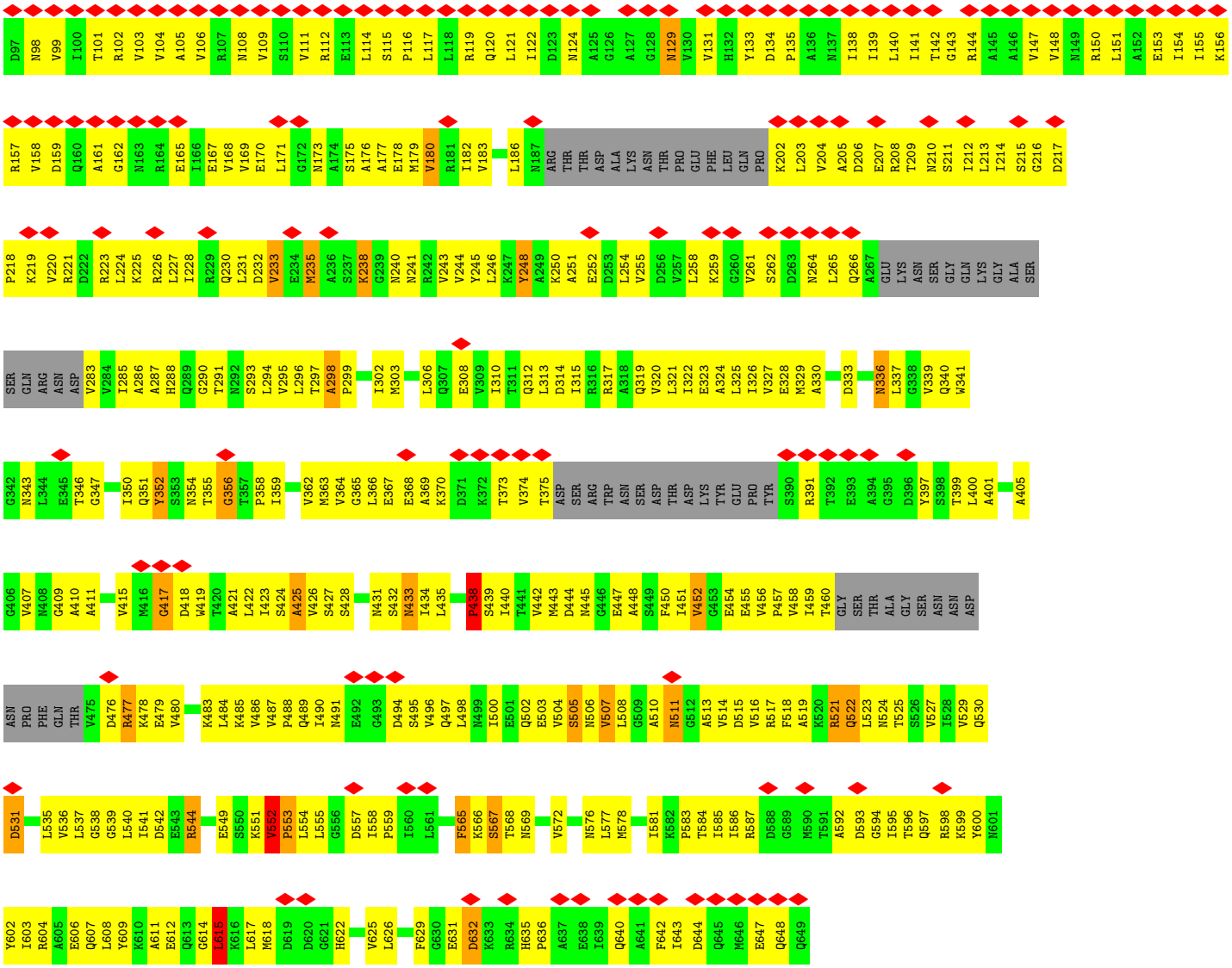
Chain K:





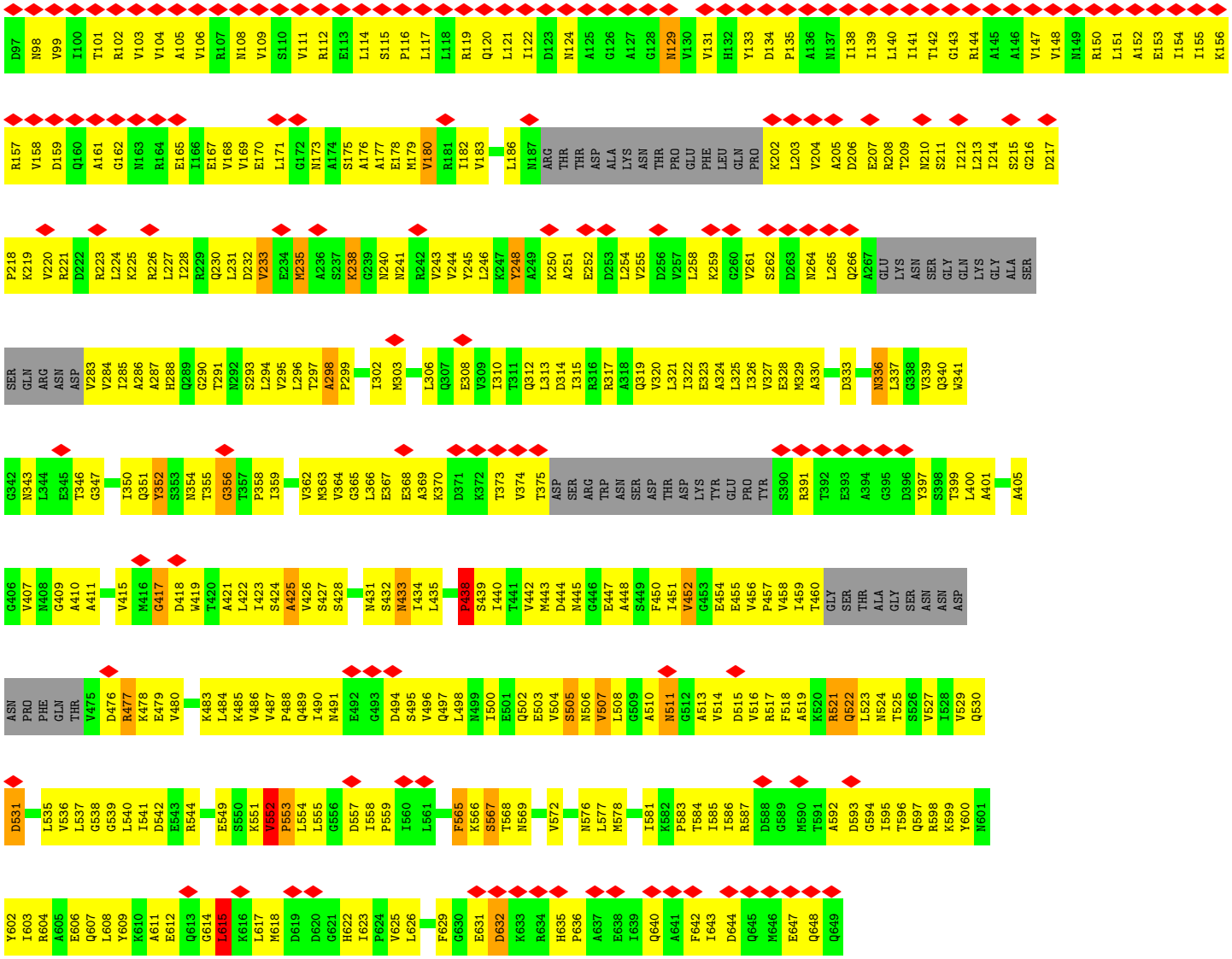
• Molecule 1: General secretion pathway protein GspD

Chain L:



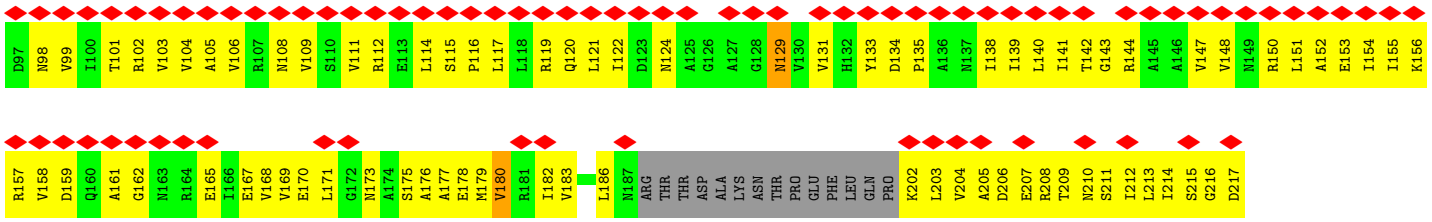
• Molecule 1: General secretion pathway protein GspD

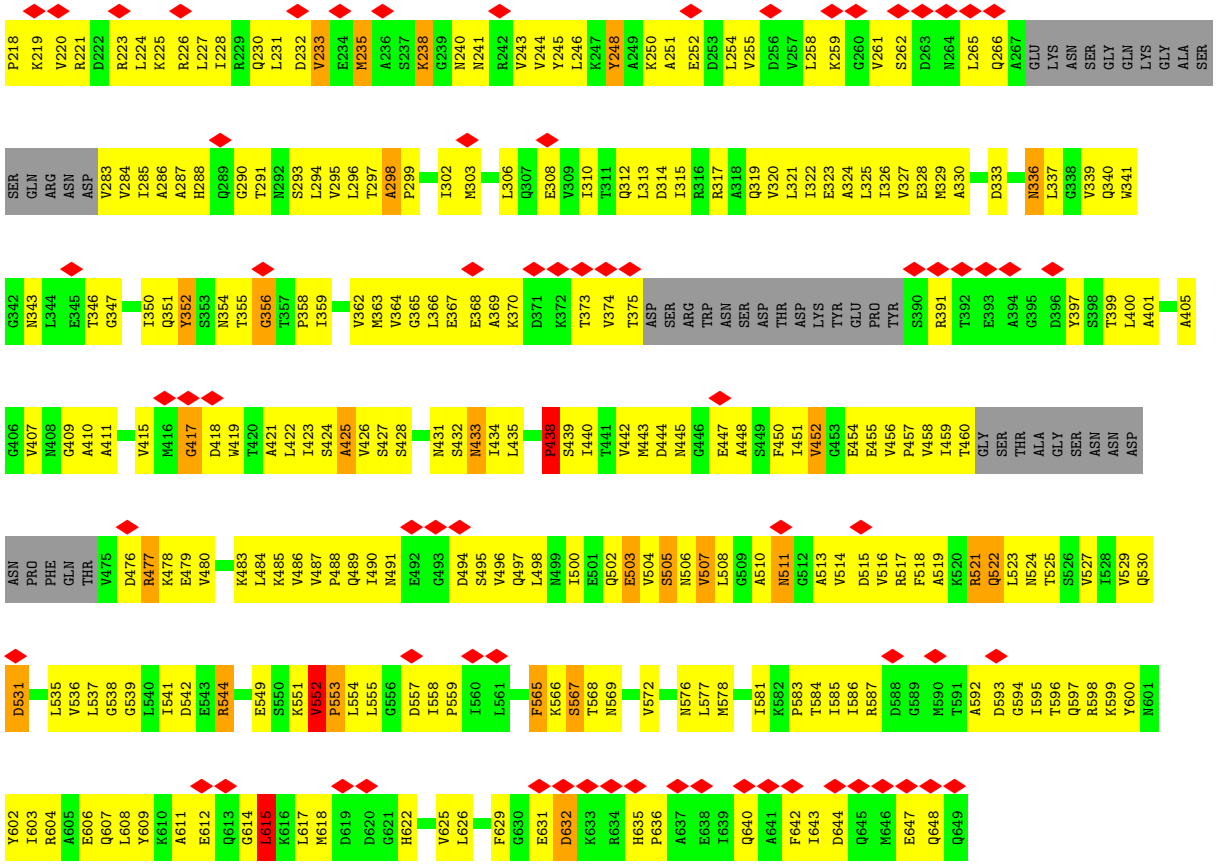
Chain M:



• Molecule 1: General secretion pathway protein GspD

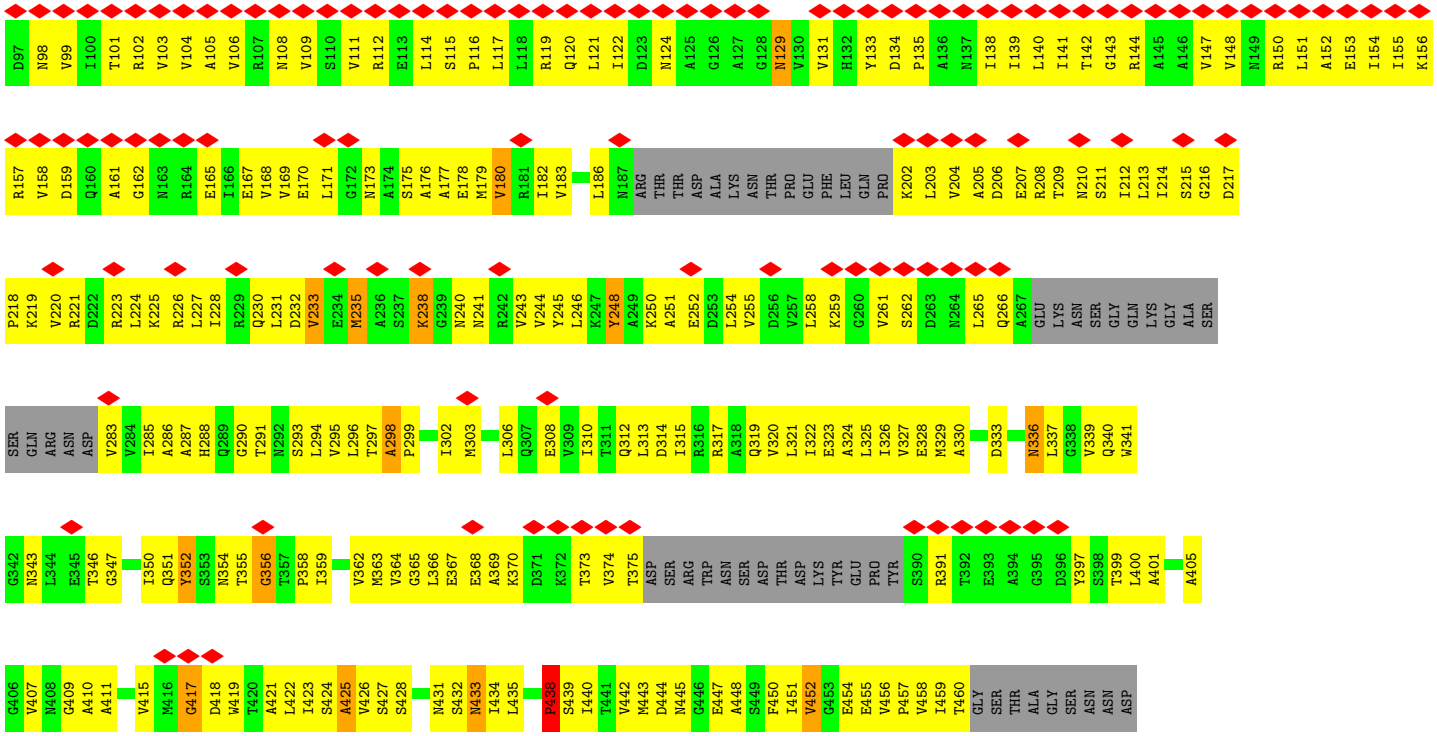
Chain N:

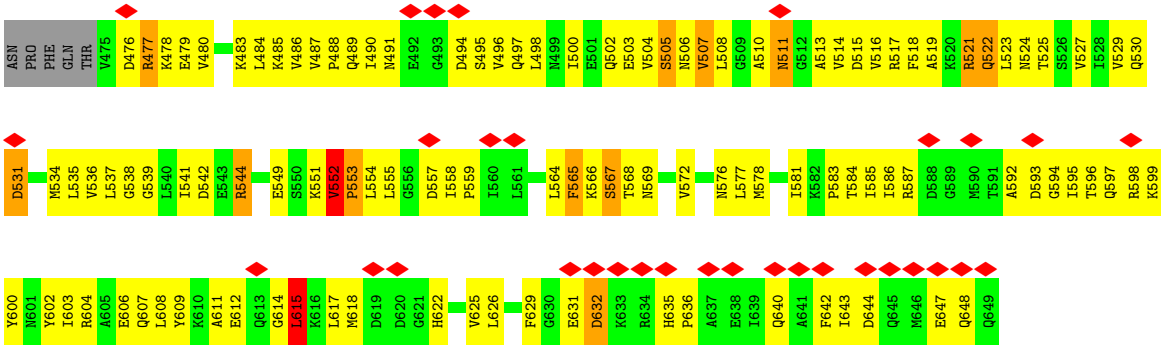




• Molecule 1: General secretion pathway protein GspD

Chain O:




ASN PRO PHE GLN THR V475 D476 R477 K478 E479 V480 K483 L484 K485 V486 V487 P488 Q489 I490 N491 E492 G493 D494 S495 V496 Q497 L498 N499 I500 E501 Q502 E503 V504 S505 N506 V507 L508 G509 A510 N511 G512 A513 V514 D515 V516 R517 F518 A519 K520 R521 Q522 L523 N524 T525 S526 V527 I528 V529 Q530
D531 M534 L535 V536 L537 G538 G539 L540 I541 D542 E543 R544 E549 S550 K551 V552 P553 L554 L555 G556 D557 I558 P559 I560 L561 L564 F565 K566 S567 T568 N569 V572 N576 L577 M578 I581 K582 P583 T584 I585 T586 R587 D588 G589 M590 T591 A592 D593 G594 I595 T596 Q597 R598 K599
Y600 N601 Y602 I603 R604 A605 E606 Q607 L608 Y609 K610 A611 E612 Q613 G614 L615 K616 L617 M618 D619 D620 G621 H622 V625 L626 F629 G630 E631 D632 K633 R634 H635 P636 A637 E638 I639 Q640 A641 F642 I643 D644 Q645 M646 E647 Q648 Q649

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C15	Depositor
Number of particles used	46126	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 ($e^-/Å^2$)	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	0.319	Depositor
Minimum map value	-0.166	Depositor
Average map value	0.002	Depositor
Map value standard deviation	0.013	Depositor
Recommended contour level	0.063795	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	0.72	1/3801 (0.0%)	0.95	6/5145 (0.1%)
1	B	0.73	1/3801 (0.0%)	0.95	6/5145 (0.1%)
1	C	0.72	1/3801 (0.0%)	0.95	7/5145 (0.1%)
1	D	0.73	1/3801 (0.0%)	0.95	6/5145 (0.1%)
1	E	0.73	1/3801 (0.0%)	0.95	6/5145 (0.1%)
1	F	0.72	1/3801 (0.0%)	0.95	6/5145 (0.1%)
1	G	0.72	1/3801 (0.0%)	0.95	7/5145 (0.1%)
1	H	0.73	1/3801 (0.0%)	0.95	6/5145 (0.1%)
1	I	0.73	1/3801 (0.0%)	0.95	6/5145 (0.1%)
1	J	0.72	1/3801 (0.0%)	0.95	7/5145 (0.1%)
1	K	0.72	1/3801 (0.0%)	0.95	6/5145 (0.1%)
1	L	0.73	1/3801 (0.0%)	0.95	6/5145 (0.1%)
1	M	0.73	1/3801 (0.0%)	0.95	6/5145 (0.1%)
1	N	0.72	1/3801 (0.0%)	0.95	7/5145 (0.1%)
1	O	0.72	1/3801 (0.0%)	0.95	6/5145 (0.1%)
All	All	0.72	15/57015 (0.0%)	0.95	94/77175 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	16
1	B	0	15
1	C	0	15
1	D	0	16
1	E	0	15
1	F	0	15
1	G	0	16
1	H	0	16
1	I	0	15
1	J	0	16

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	K	0	16
1	L	0	16
1	M	0	15
1	N	0	16
1	O	0	16
All	All	0	234

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	567	SER	CA-CB	-6.16	1.43	1.52
1	E	567	SER	CA-CB	-6.13	1.43	1.52
1	L	567	SER	CA-CB	-6.09	1.43	1.52
1	I	567	SER	CA-CB	-6.08	1.43	1.52
1	K	567	SER	CA-CB	-6.07	1.43	1.52
1	D	567	SER	CA-CB	-6.06	1.43	1.52
1	M	567	SER	CA-CB	-6.05	1.43	1.52
1	J	567	SER	CA-CB	-6.05	1.43	1.52
1	A	567	SER	CA-CB	-6.04	1.43	1.52
1	F	567	SER	CA-CB	-6.04	1.43	1.52
1	G	567	SER	CA-CB	-6.04	1.43	1.52
1	O	567	SER	CA-CB	-6.03	1.44	1.52
1	B	567	SER	CA-CB	-6.02	1.44	1.52
1	N	567	SER	CA-CB	-6.01	1.44	1.52
1	C	567	SER	CA-CB	-5.99	1.44	1.52

All (94) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	521	ARG	NE-CZ-NH1	-6.34	117.13	120.30
1	F	521	ARG	NE-CZ-NH1	-6.29	117.15	120.30
1	C	521	ARG	NE-CZ-NH1	-6.27	117.16	120.30
1	N	521	ARG	NE-CZ-NH1	-6.27	117.16	120.30
1	M	521	ARG	NE-CZ-NH1	-6.23	117.18	120.30
1	H	521	ARG	NE-CZ-NH1	-6.22	117.19	120.30
1	E	521	ARG	NE-CZ-NH1	-6.21	117.19	120.30
1	B	521	ARG	NE-CZ-NH1	-6.21	117.19	120.30
1	I	521	ARG	NE-CZ-NH1	-6.20	117.20	120.30
1	D	521	ARG	NE-CZ-NH1	-6.17	117.22	120.30
1	K	521	ARG	NE-CZ-NH1	-6.16	117.22	120.30
1	A	521	ARG	NE-CZ-NH1	-6.15	117.22	120.30
1	O	521	ARG	NE-CZ-NH1	-6.12	117.24	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	521	ARG	NE-CZ-NH1	-6.12	117.24	120.30
1	J	521	ARG	NE-CZ-NH1	-6.07	117.27	120.30
1	B	477	ARG	CG-CD-NE	-5.89	99.44	111.80
1	J	477	ARG	CG-CD-NE	-5.85	99.52	111.80
1	I	477	ARG	CG-CD-NE	-5.84	99.53	111.80
1	C	531	ASP	CB-CA-C	-5.84	98.72	110.40
1	N	531	ASP	CB-CA-C	-5.84	98.72	110.40
1	F	477	ARG	CG-CD-NE	-5.83	99.55	111.80
1	M	477	ARG	CG-CD-NE	-5.83	99.55	111.80
1	M	531	ASP	CB-CA-C	-5.83	98.73	110.40
1	F	531	ASP	CB-CA-C	-5.83	98.73	110.40
1	L	531	ASP	CB-CA-C	-5.83	98.74	110.40
1	B	531	ASP	CB-CA-C	-5.83	98.74	110.40
1	D	531	ASP	CB-CA-C	-5.83	98.75	110.40
1	E	477	ARG	CG-CD-NE	-5.82	99.58	111.80
1	G	531	ASP	CB-CA-C	-5.82	98.77	110.40
1	O	531	ASP	CB-CA-C	-5.82	98.77	110.40
1	J	531	ASP	CB-CA-C	-5.82	98.77	110.40
1	K	531	ASP	CB-CA-C	-5.81	98.77	110.40
1	E	531	ASP	CB-CA-C	-5.81	98.78	110.40
1	I	531	ASP	CB-CA-C	-5.80	98.79	110.40
1	C	477	ARG	CG-CD-NE	-5.80	99.62	111.80
1	H	531	ASP	CB-CA-C	-5.79	98.81	110.40
1	D	477	ARG	CG-CD-NE	-5.79	99.64	111.80
1	A	531	ASP	CB-CA-C	-5.79	98.82	110.40
1	G	477	ARG	CG-CD-NE	-5.79	99.64	111.80
1	N	477	ARG	CG-CD-NE	-5.79	99.65	111.80
1	A	477	ARG	CG-CD-NE	-5.78	99.66	111.80
1	L	477	ARG	CG-CD-NE	-5.77	99.69	111.80
1	H	477	ARG	CG-CD-NE	-5.74	99.74	111.80
1	K	477	ARG	CG-CD-NE	-5.73	99.77	111.80
1	O	477	ARG	CG-CD-NE	-5.71	99.81	111.80
1	E	352	TYR	CB-CG-CD1	-5.36	117.78	121.00
1	L	352	TYR	CB-CG-CD1	-5.35	117.79	121.00
1	O	352	TYR	CB-CG-CD1	-5.35	117.79	121.00
1	K	352	TYR	CB-CG-CD1	-5.34	117.80	121.00
1	M	352	TYR	CB-CG-CD1	-5.33	117.80	121.00
1	D	352	TYR	CB-CG-CD1	-5.32	117.81	121.00
1	B	352	TYR	CB-CG-CD1	-5.30	117.82	121.00
1	A	352	TYR	CB-CG-CD1	-5.29	117.82	121.00
1	N	352	TYR	CB-CG-CD1	-5.29	117.83	121.00
1	H	352	TYR	CB-CG-CD1	-5.28	117.83	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	600	TYR	CB-CG-CD2	-5.28	117.83	121.00
1	F	600	TYR	CB-CG-CD2	-5.26	117.84	121.00
1	C	600	TYR	CB-CG-CD2	-5.26	117.85	121.00
1	C	352	TYR	CB-CG-CD1	-5.24	117.86	121.00
1	F	248	TYR	C-N-CA	-5.24	108.61	121.70
1	I	352	TYR	CB-CG-CD1	-5.23	117.86	121.00
1	E	248	TYR	C-N-CA	-5.22	108.64	121.70
1	I	248	TYR	C-N-CA	-5.22	108.66	121.70
1	M	248	TYR	C-N-CA	-5.22	108.66	121.70
1	L	248	TYR	C-N-CA	-5.21	108.66	121.70
1	A	248	TYR	C-N-CA	-5.21	108.67	121.70
1	G	352	TYR	CB-CG-CD1	-5.21	117.87	121.00
1	J	600	TYR	CB-CG-CD2	-5.21	117.88	121.00
1	K	248	TYR	C-N-CA	-5.20	108.69	121.70
1	F	352	TYR	CB-CG-CD1	-5.20	117.88	121.00
1	J	248	TYR	C-N-CA	-5.20	108.69	121.70
1	C	248	TYR	C-N-CA	-5.20	108.70	121.70
1	D	248	TYR	C-N-CA	-5.20	108.70	121.70
1	O	248	TYR	C-N-CA	-5.20	108.70	121.70
1	N	248	TYR	C-N-CA	-5.20	108.71	121.70
1	B	248	TYR	C-N-CA	-5.20	108.71	121.70
1	H	248	TYR	C-N-CA	-5.20	108.71	121.70
1	J	352	TYR	CB-CG-CD1	-5.20	117.88	121.00
1	G	600	TYR	CB-CG-CD2	-5.19	117.89	121.00
1	I	600	TYR	CB-CG-CD2	-5.19	117.89	121.00
1	D	600	TYR	CB-CG-CD2	-5.19	117.89	121.00
1	B	600	TYR	CB-CG-CD2	-5.19	117.89	121.00
1	G	248	TYR	C-N-CA	-5.17	108.76	121.70
1	H	600	TYR	CB-CG-CD2	-5.15	117.91	121.00
1	A	600	TYR	CB-CG-CD2	-5.13	117.92	121.00
1	N	600	TYR	CB-CG-CD2	-5.12	117.92	121.00
1	L	600	TYR	CB-CG-CD2	-5.11	117.94	121.00
1	E	600	TYR	CB-CG-CD2	-5.10	117.94	121.00
1	K	600	TYR	CB-CG-CD2	-5.05	117.97	121.00
1	O	600	TYR	CB-CG-CD2	-5.04	117.97	121.00
1	N	503	GLU	C-N-CA	-5.04	109.11	121.70
1	C	503	GLU	C-N-CA	-5.03	109.13	121.70
1	J	503	GLU	C-N-CA	-5.01	109.17	121.70
1	G	503	GLU	C-N-CA	-5.01	109.18	121.70

There are no chirality outliers.

All (234) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	129	ASN	Peptide
1	A	297	THR	Mainchain
1	A	298	ALA	Peptide
1	A	336	ASN	Mainchain
1	A	425	ALA	Mainchain
1	A	433	ASN	Mainchain
1	A	438	PRO	Mainchain
1	A	452	VAL	Peptide
1	A	505	SER	Mainchain,Peptide
1	A	544	ARG	Mainchain
1	A	552	VAL	Mainchain
1	A	565	PHE	Sidechain,Mainchain
1	A	615	LEU	Peptide
1	A	632	ASP	Mainchain
1	B	129	ASN	Peptide
1	B	297	THR	Mainchain
1	B	298	ALA	Peptide
1	B	336	ASN	Mainchain
1	B	425	ALA	Mainchain
1	B	433	ASN	Mainchain
1	B	438	PRO	Mainchain
1	B	452	VAL	Peptide
1	B	505	SER	Mainchain,Peptide
1	B	544	ARG	Mainchain
1	B	552	VAL	Mainchain
1	B	565	PHE	Sidechain,Mainchain
1	B	615	LEU	Peptide
1	C	129	ASN	Peptide
1	C	297	THR	Mainchain
1	C	298	ALA	Peptide
1	C	336	ASN	Mainchain
1	C	425	ALA	Mainchain
1	C	433	ASN	Mainchain
1	C	438	PRO	Mainchain
1	C	452	VAL	Peptide
1	C	505	SER	Mainchain,Peptide
1	C	552	VAL	Mainchain
1	C	565	PHE	Sidechain,Mainchain
1	C	615	LEU	Peptide
1	C	632	ASP	Mainchain
1	D	129	ASN	Peptide
1	D	297	THR	Mainchain
1	D	298	ALA	Peptide

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Mol	Chain	Res	Type	Group
1	D	336	ASN	Mainchain
1	D	425	ALA	Mainchain
1	D	433	ASN	Mainchain
1	D	438	PRO	Mainchain
1	D	452	VAL	Peptide
1	D	505	SER	Mainchain,Peptide
1	D	544	ARG	Mainchain
1	D	552	VAL	Mainchain
1	D	565	PHE	Sidechain,Mainchain
1	D	615	LEU	Peptide
1	D	632	ASP	Mainchain
1	E	129	ASN	Peptide
1	E	297	THR	Mainchain
1	E	298	ALA	Peptide
1	E	336	ASN	Mainchain
1	E	425	ALA	Mainchain
1	E	433	ASN	Mainchain
1	E	438	PRO	Mainchain
1	E	452	VAL	Peptide
1	E	505	SER	Mainchain,Peptide
1	E	544	ARG	Mainchain
1	E	552	VAL	Mainchain
1	E	565	PHE	Sidechain,Mainchain
1	E	615	LEU	Peptide
1	F	129	ASN	Peptide
1	F	297	THR	Mainchain
1	F	298	ALA	Peptide
1	F	336	ASN	Mainchain
1	F	425	ALA	Mainchain
1	F	433	ASN	Mainchain
1	F	438	PRO	Mainchain
1	F	452	VAL	Peptide
1	F	505	SER	Mainchain,Peptide
1	F	552	VAL	Mainchain
1	F	565	PHE	Sidechain,Mainchain
1	F	615	LEU	Peptide
1	F	632	ASP	Mainchain
1	G	129	ASN	Peptide
1	G	297	THR	Mainchain
1	G	298	ALA	Peptide
1	G	336	ASN	Mainchain
1	G	425	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	G	433	ASN	Mainchain
1	G	438	PRO	Mainchain
1	G	452	VAL	Peptide
1	G	505	SER	Mainchain,Peptide
1	G	544	ARG	Mainchain
1	G	552	VAL	Mainchain
1	G	565	PHE	Sidechain,Mainchain
1	G	615	LEU	Peptide
1	G	632	ASP	Mainchain
1	H	129	ASN	Peptide
1	H	297	THR	Mainchain
1	H	298	ALA	Peptide
1	H	336	ASN	Mainchain
1	H	425	ALA	Mainchain
1	H	433	ASN	Mainchain
1	H	438	PRO	Mainchain
1	H	452	VAL	Peptide
1	H	505	SER	Mainchain,Peptide
1	H	544	ARG	Mainchain
1	H	552	VAL	Mainchain
1	H	565	PHE	Sidechain,Mainchain
1	H	615	LEU	Peptide
1	H	632	ASP	Mainchain
1	I	129	ASN	Peptide
1	I	297	THR	Mainchain
1	I	298	ALA	Peptide
1	I	336	ASN	Mainchain
1	I	425	ALA	Mainchain
1	I	433	ASN	Mainchain
1	I	438	PRO	Mainchain
1	I	452	VAL	Peptide
1	I	505	SER	Mainchain,Peptide
1	I	544	ARG	Mainchain
1	I	552	VAL	Mainchain
1	I	565	PHE	Sidechain,Mainchain
1	I	615	LEU	Peptide
1	J	129	ASN	Peptide
1	J	297	THR	Mainchain
1	J	298	ALA	Peptide
1	J	336	ASN	Mainchain
1	J	425	ALA	Mainchain
1	J	433	ASN	Mainchain

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Mol	Chain	Res	Type	Group
1	J	438	PRO	Mainchain
1	J	452	VAL	Peptide
1	J	505	SER	Mainchain,Peptide
1	J	544	ARG	Mainchain
1	J	552	VAL	Mainchain
1	J	565	PHE	Sidechain,Mainchain
1	J	615	LEU	Peptide
1	J	632	ASP	Mainchain
1	K	129	ASN	Peptide
1	K	297	THR	Mainchain
1	K	298	ALA	Peptide
1	K	336	ASN	Mainchain
1	K	425	ALA	Mainchain
1	K	433	ASN	Mainchain
1	K	438	PRO	Mainchain
1	K	452	VAL	Peptide
1	K	505	SER	Mainchain,Peptide
1	K	544	ARG	Mainchain
1	K	552	VAL	Mainchain
1	K	565	PHE	Sidechain,Mainchain
1	K	615	LEU	Peptide
1	K	632	ASP	Mainchain
1	L	129	ASN	Peptide
1	L	297	THR	Mainchain
1	L	298	ALA	Peptide
1	L	336	ASN	Mainchain
1	L	425	ALA	Mainchain
1	L	433	ASN	Mainchain
1	L	438	PRO	Mainchain
1	L	452	VAL	Peptide
1	L	505	SER	Mainchain,Peptide
1	L	544	ARG	Mainchain
1	L	552	VAL	Mainchain
1	L	565	PHE	Sidechain,Mainchain
1	L	615	LEU	Peptide
1	L	632	ASP	Mainchain
1	M	129	ASN	Peptide
1	M	297	THR	Mainchain
1	M	298	ALA	Peptide
1	M	336	ASN	Mainchain
1	M	425	ALA	Mainchain
1	M	433	ASN	Mainchain

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Mol	Chain	Res	Type	Group
1	M	438	PRO	Mainchain
1	M	452	VAL	Peptide
1	M	505	SER	Mainchain,Peptide
1	M	552	VAL	Mainchain
1	M	565	PHE	Sidechain,Mainchain
1	M	615	LEU	Peptide
1	M	632	ASP	Mainchain
1	N	129	ASN	Peptide
1	N	297	THR	Mainchain
1	N	298	ALA	Peptide
1	N	336	ASN	Mainchain
1	N	425	ALA	Mainchain
1	N	433	ASN	Mainchain
1	N	438	PRO	Mainchain
1	N	452	VAL	Peptide
1	N	505	SER	Mainchain,Peptide
1	N	544	ARG	Mainchain
1	N	552	VAL	Mainchain
1	N	565	PHE	Sidechain,Mainchain
1	N	615	LEU	Peptide
1	N	632	ASP	Mainchain
1	O	129	ASN	Peptide
1	O	297	THR	Mainchain
1	O	298	ALA	Peptide
1	O	336	ASN	Mainchain
1	O	425	ALA	Mainchain
1	O	433	ASN	Mainchain
1	O	438	PRO	Mainchain
1	O	452	VAL	Peptide
1	O	505	SER	Mainchain,Peptide
1	O	544	ARG	Mainchain
1	O	552	VAL	Mainchain
1	O	565	PHE	Sidechain,Mainchain
1	O	615	LEU	Peptide
1	O	632	ASP	Mainchain

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	3768	0	3877	663	0
1	B	3768	0	3877	666	0
1	C	3768	0	3877	664	0
1	D	3768	0	3877	658	0
1	E	3768	0	3877	659	0
1	F	3768	0	3877	656	0
1	G	3768	0	3877	662	0
1	H	3768	0	3877	663	0
1	I	3768	0	3877	653	0
1	J	3768	0	3877	659	0
1	K	3768	0	3877	662	0
1	L	3768	0	3877	650	0
1	M	3768	0	3877	665	0
1	N	3768	0	3877	664	0
1	O	3768	0	3877	667	0
All	All	56520	0	58155	8518	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 74.

All (8518) 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:L:328:GLU:CD	1:L:521:ARG:NH1	1.69	1.46
1:H:328:GLU:CD	1:H:521:ARG:NH1	1.69	1.46
1:K:328:GLU:CD	1:K:521:ARG:NH1	1.69	1.46
1:M:328:GLU:CD	1:M:521:ARG:NH1	1.69	1.46
1:J:328:GLU:CD	1:J:521:ARG:NH1	1.69	1.45
1:F:328:GLU:CD	1:F:521:ARG:NH1	1.69	1.45
1:O:328:GLU:CD	1:O:521:ARG:NH1	1.69	1.45
1:N:328:GLU:CD	1:N:521:ARG:NH1	1.69	1.44
1:A:328:GLU:CD	1:A:521:ARG:NH1	1.69	1.44
1:I:328:GLU:CD	1:I:521:ARG:NH1	1.69	1.44
1:B:328:GLU:CD	1:B:521:ARG:NH1	1.69	1.43
1:D:328:GLU:CD	1:D:521:ARG:NH1	1.69	1.43
1:G:328:GLU:CD	1:G:521:ARG:NH1	1.69	1.42
1:C:328:GLU:CD	1:C:521:ARG:NH1	1.69	1.42
1:E:328:GLU:CD	1:E:521:ARG:NH1	1.69	1.41
1:A:440:ILE:CD1	1:O:523:LEU:HD11	1.52	1.40
1:H:523:LEU:HD11	1:I:440:ILE:CD1	1.52	1.40
1:E:523:LEU:HD11	1:F:440:ILE:CD1	1.52	1.39
1:G:523:LEU:HD11	1:H:440:ILE:CD1	1.52	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:523:LEU:HD11	1:J:440:ILE:CD1	1.52	1.39
1:N:523:LEU:HD11	1:O:440:ILE:CD1	1.52	1.39
1:D:523:LEU:HD11	1:E:440:ILE:CD1	1.52	1.39
1:F:523:LEU:HD11	1:G:440:ILE:CD1	1.52	1.39
1:J:523:LEU:HD11	1:K:440:ILE:CD1	1.52	1.39
1:M:523:LEU:HD11	1:N:440:ILE:CD1	1.52	1.39
1:K:523:LEU:HD11	1:L:440:ILE:CD1	1.52	1.39
1:A:523:LEU:HD11	1:B:440:ILE:CD1	1.52	1.38
1:C:523:LEU:HD11	1:D:440:ILE:CD1	1.52	1.38
1:L:523:LEU:HD11	1:M:440:ILE:CD1	1.52	1.37
1:B:523:LEU:HD11	1:C:440:ILE:CD1	1.52	1.37
1:O:214:ILE:HD11	1:O:220:VAL:CG1	1.56	1.36
1:A:214:ILE:HD11	1:A:220:VAL:CG1	1.56	1.36
1:I:214:ILE:HD11	1:I:220:VAL:CG1	1.56	1.35
1:N:214:ILE:HD11	1:N:220:VAL:CG1	1.56	1.35
1:M:214:ILE:HD11	1:M:220:VAL:CG1	1.56	1.35
1:E:214:ILE:HD11	1:E:220:VAL:CG1	1.56	1.35
1:B:214:ILE:HD11	1:B:220:VAL:CG1	1.56	1.35
1:J:214:ILE:HD11	1:J:220:VAL:CG1	1.56	1.35
1:D:214:ILE:HD11	1:D:220:VAL:CG1	1.56	1.34
1:H:214:ILE:HD11	1:H:220:VAL:CG1	1.56	1.34
1:L:214:ILE:HD11	1:L:220:VAL:CG1	1.56	1.34
1:F:214:ILE:HD11	1:F:220:VAL:CG1	1.56	1.34
1:K:214:ILE:HD11	1:K:220:VAL:CG1	1.56	1.33
1:C:214:ILE:HD11	1:C:220:VAL:CG1	1.56	1.32
1:G:214:ILE:HD11	1:G:220:VAL:CG1	1.56	1.31
1:G:153:GLU:O	1:G:157:ARG:HG2	1.09	1.27
1:F:153:GLU:O	1:F:157:ARG:HG2	1.09	1.27
1:H:153:GLU:O	1:H:157:ARG:HG2	1.09	1.26
1:O:153:GLU:O	1:O:157:ARG:HG2	1.10	1.26
1:N:153:GLU:O	1:N:157:ARG:HG2	1.09	1.26
1:E:153:GLU:O	1:E:157:ARG:HG2	1.09	1.25
1:I:153:GLU:O	1:I:157:ARG:HG2	1.09	1.25
1:A:153:GLU:O	1:A:157:ARG:HG2	1.09	1.25
1:M:153:GLU:O	1:M:157:ARG:HG2	1.09	1.25
1:J:153:GLU:O	1:J:157:ARG:HG2	1.09	1.24
1:B:153:GLU:O	1:B:157:ARG:HG2	1.09	1.24
1:M:157:ARG:O	1:N:140:LEU:CD1	1.85	1.24
1:D:153:GLU:O	1:D:157:ARG:HG2	1.09	1.23
1:E:157:ARG:O	1:F:140:LEU:CD1	1.86	1.23
1:H:444:ASP:OD2	1:H:490:ILE:HD12	1.06	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:153:GLU:O	1:L:157:ARG:HG2	1.09	1.23
1:K:157:ARG:O	1:L:140:LEU:CD1	1.87	1.23
1:K:153:GLU:O	1:K:157:ARG:HG2	1.09	1.23
1:K:444:ASP:OD2	1:K:490:ILE:HD12	1.05	1.23
1:D:157:ARG:O	1:E:140:LEU:CD1	1.87	1.23
1:L:328:GLU:OE2	1:L:521:ARG:NH1	1.72	1.23
1:F:157:ARG:O	1:G:140:LEU:CD1	1.87	1.22
1:O:328:GLU:OE2	1:O:521:ARG:NH1	1.72	1.22
1:L:444:ASP:OD2	1:L:490:ILE:HD12	1.06	1.22
1:A:328:GLU:OE2	1:A:521:ARG:NH1	1.72	1.22
1:C:153:GLU:O	1:C:157:ARG:HG2	1.09	1.22
1:C:328:GLU:OE2	1:C:521:ARG:NH1	1.72	1.22
1:E:444:ASP:OD2	1:E:490:ILE:HD12	1.05	1.22
1:J:157:ARG:O	1:K:140:LEU:CD1	1.88	1.22
1:L:157:ARG:O	1:M:140:LEU:CD1	1.88	1.22
1:I:157:ARG:O	1:J:140:LEU:CD1	1.87	1.22
1:H:157:ARG:O	1:I:140:LEU:CD1	1.88	1.22
1:I:444:ASP:OD2	1:I:490:ILE:HD12	1.05	1.22
1:N:157:ARG:O	1:O:140:LEU:CD1	1.88	1.22
1:G:444:ASP:OD2	1:G:490:ILE:HD12	1.05	1.21
1:G:157:ARG:O	1:H:140:LEU:CD1	1.87	1.21
1:I:328:GLU:OE2	1:I:521:ARG:NH1	1.72	1.21
1:B:157:ARG:O	1:C:140:LEU:CD1	1.88	1.21
1:F:214:ILE:CD1	1:F:220:VAL:HG12	1.71	1.21
1:J:328:GLU:OE2	1:J:521:ARG:NH1	1.72	1.21
1:I:214:ILE:CD1	1:I:220:VAL:HG12	1.71	1.21
1:J:214:ILE:CD1	1:J:220:VAL:HG12	1.71	1.21
1:M:328:GLU:OE2	1:M:521:ARG:NH1	1.72	1.21
1:N:444:ASP:OD2	1:N:490:ILE:HD12	1.05	1.21
1:A:157:ARG:O	1:B:140:LEU:CD1	1.88	1.20
1:G:214:ILE:CD1	1:G:220:VAL:HG12	1.71	1.20
1:F:157:ARG:O	1:G:140:LEU:HD12	1.42	1.20
1:J:444:ASP:OD2	1:J:490:ILE:HD12	1.05	1.20
1:K:328:GLU:OE2	1:K:521:ARG:NH1	1.72	1.20
1:A:140:LEU:CD1	1:O:157:ARG:O	1.89	1.20
1:D:328:GLU:OE2	1:D:521:ARG:NH1	1.72	1.20
1:E:214:ILE:CD1	1:E:220:VAL:HG12	1.71	1.20
1:O:214:ILE:HD12	1:O:224:LEU:HD23	1.24	1.20
1:F:444:ASP:OD2	1:F:490:ILE:HD12	1.05	1.20
1:H:157:ARG:O	1:I:140:LEU:HD12	1.41	1.20
1:L:157:ARG:O	1:M:140:LEU:HD12	1.42	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:444:ASP:OD2	1:O:490:ILE:HD12	1.05	1.20
1:B:444:ASP:OD2	1:B:490:ILE:HD12	1.05	1.20
1:D:444:ASP:OD2	1:D:490:ILE:HD12	1.05	1.20
1:H:214:ILE:CD1	1:H:220:VAL:HG12	1.71	1.20
1:A:214:ILE:CD1	1:A:220:VAL:HG12	1.71	1.19
1:E:328:GLU:OE2	1:E:521:ARG:NH1	1.72	1.19
1:K:157:ARG:O	1:L:140:LEU:HD12	1.41	1.19
1:K:214:ILE:CD1	1:K:220:VAL:HG12	1.71	1.19
1:N:214:ILE:CD1	1:N:220:VAL:HG12	1.71	1.19
1:C:214:ILE:CD1	1:C:220:VAL:HG12	1.71	1.19
1:E:167:GLU:HG2	1:E:214:ILE:CG2	1.73	1.19
1:G:328:GLU:OE2	1:G:521:ARG:NH1	1.72	1.19
1:M:444:ASP:OD2	1:M:490:ILE:HD12	1.06	1.19
1:B:214:ILE:CD1	1:B:220:VAL:HG12	1.71	1.19
1:C:157:ARG:O	1:D:140:LEU:CD1	1.89	1.19
1:L:214:ILE:HD12	1:L:224:LEU:HD23	1.24	1.19
1:C:167:GLU:HG2	1:C:214:ILE:CG2	1.73	1.19
1:C:444:ASP:OD2	1:C:490:ILE:HD12	1.05	1.19
1:G:157:ARG:O	1:H:140:LEU:HD12	1.43	1.19
1:B:167:GLU:HG2	1:B:214:ILE:CG2	1.73	1.19
1:B:328:GLU:OE2	1:B:521:ARG:NH1	1.72	1.19
1:D:167:GLU:HG2	1:D:214:ILE:CG2	1.73	1.19
1:F:328:GLU:OE2	1:F:521:ARG:NH1	1.72	1.19
1:N:328:GLU:OE2	1:N:521:ARG:NH1	1.72	1.19
1:O:167:GLU:HG2	1:O:214:ILE:CG2	1.73	1.19
1:D:214:ILE:CD1	1:D:220:VAL:HG12	1.71	1.18
1:F:167:GLU:HG2	1:F:214:ILE:CG2	1.73	1.18
1:H:167:GLU:HG2	1:H:214:ILE:CG2	1.73	1.18
1:L:214:ILE:CD1	1:L:220:VAL:HG12	1.71	1.18
1:M:214:ILE:CD1	1:M:220:VAL:HG12	1.71	1.18
1:O:214:ILE:CD1	1:O:220:VAL:HG12	1.71	1.18
1:A:444:ASP:OD2	1:A:490:ILE:HD12	1.05	1.18
1:H:328:GLU:OE2	1:H:521:ARG:NH1	1.72	1.18
1:L:516:VAL:O	1:M:477:ARG:NH2	1.77	1.18
1:K:214:ILE:HD12	1:K:224:LEU:HD23	1.24	1.18
1:N:167:GLU:HG2	1:N:214:ILE:CG2	1.73	1.18
1:I:167:GLU:HG2	1:I:214:ILE:CG2	1.73	1.17
1:L:167:GLU:HG2	1:L:214:ILE:CG2	1.73	1.17
1:A:167:GLU:HG2	1:A:214:ILE:CG2	1.73	1.17
1:D:516:VAL:O	1:E:477:ARG:NH2	1.77	1.17
1:G:167:GLU:HG2	1:G:214:ILE:CG2	1.73	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:516:VAL:O	1:I:477:ARG:NH2	1.78	1.17
1:K:516:VAL:O	1:L:477:ARG:NH2	1.78	1.17
1:C:516:VAL:O	1:D:477:ARG:NH2	1.78	1.17
1:K:167:GLU:HG2	1:K:214:ILE:CG2	1.73	1.17
1:A:214:ILE:HD12	1:A:224:LEU:HD23	1.24	1.17
1:M:516:VAL:O	1:N:477:ARG:NH2	1.77	1.17
1:E:516:VAL:O	1:F:477:ARG:NH2	1.78	1.17
1:G:516:VAL:O	1:H:477:ARG:NH2	1.78	1.17
1:I:516:VAL:O	1:J:477:ARG:NH2	1.77	1.17
1:J:157:ARG:O	1:K:140:LEU:HD12	1.42	1.17
1:F:365:GLY:HA2	1:F:399:THR:HG23	1.28	1.16
1:J:167:GLU:HG2	1:J:214:ILE:CG2	1.73	1.16
1:M:167:GLU:HG2	1:M:214:ILE:CG2	1.73	1.16
1:G:365:GLY:HA2	1:G:399:THR:HG23	1.27	1.16
1:M:157:ARG:O	1:N:140:LEU:HD12	1.41	1.16
1:B:516:VAL:O	1:C:477:ARG:NH2	1.78	1.16
1:I:157:ARG:O	1:J:140:LEU:HD12	1.45	1.16
1:E:365:GLY:HA2	1:E:399:THR:HG23	1.28	1.15
1:J:516:VAL:O	1:K:477:ARG:NH2	1.78	1.15
1:C:157:ARG:O	1:D:140:LEU:HD12	1.42	1.15
1:A:516:VAL:O	1:B:477:ARG:NH2	1.78	1.15
1:F:516:VAL:O	1:G:477:ARG:NH2	1.78	1.15
1:N:516:VAL:O	1:O:477:ARG:NH2	1.78	1.15
1:H:365:GLY:HA2	1:H:399:THR:HG23	1.27	1.14
1:J:442:VAL:HG11	1:J:488:PRO:HG3	1.30	1.14
1:A:477:ARG:NH2	1:O:516:VAL:O	1.77	1.14
1:C:442:VAL:HG11	1:C:488:PRO:HG3	1.30	1.14
1:H:523:LEU:CD1	1:I:440:ILE:HD13	1.78	1.14
1:A:109:VAL:HG21	1:B:135:PRO:HD2	1.29	1.13
1:C:523:LEU:CD1	1:D:440:ILE:HD13	1.78	1.13
1:F:523:LEU:CD1	1:G:440:ILE:HD13	1.79	1.13
1:H:442:VAL:HG11	1:H:488:PRO:HG3	1.30	1.13
1:E:442:VAL:HG11	1:E:488:PRO:HG3	1.30	1.13
1:I:523:LEU:CD1	1:J:440:ILE:HD13	1.78	1.13
1:K:523:LEU:CD1	1:L:440:ILE:HD13	1.78	1.13
1:A:444:ASP:OD2	1:A:490:ILE:CD1	1.96	1.13
1:E:523:LEU:CD1	1:F:440:ILE:HD13	1.78	1.13
1:N:214:ILE:HD12	1:N:224:LEU:HD23	1.24	1.13
1:N:444:ASP:OD2	1:N:490:ILE:CD1	1.96	1.13
1:B:444:ASP:OD2	1:B:490:ILE:CD1	1.96	1.13
1:E:157:ARG:O	1:F:140:LEU:HD12	1.40	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:444:ASP:OD2	1:O:490:ILE:CD1	1.96	1.13
1:B:109:VAL:HG21	1:C:135:PRO:HD2	1.30	1.12
1:D:365:GLY:HA2	1:D:399:THR:HG23	1.27	1.13
1:D:523:LEU:CD1	1:E:440:ILE:HD13	1.78	1.12
1:L:523:LEU:CD1	1:M:440:ILE:HD13	1.78	1.12
1:M:214:ILE:HD12	1:M:224:LEU:HD23	1.24	1.12
1:A:440:ILE:HD13	1:O:523:LEU:CD1	1.78	1.12
1:C:444:ASP:OD2	1:C:490:ILE:CD1	1.96	1.12
1:E:525:THR:HG21	1:F:440:ILE:HD11	1.31	1.12
1:L:442:VAL:HG11	1:L:488:PRO:HG3	1.30	1.12
1:M:444:ASP:OD2	1:M:490:ILE:CD1	1.97	1.12
1:D:525:THR:HG21	1:E:440:ILE:HD11	1.31	1.12
1:H:444:ASP:OD2	1:H:490:ILE:CD1	1.96	1.12
1:L:444:ASP:OD2	1:L:490:ILE:CD1	1.97	1.12
1:A:157:ARG:O	1:B:140:LEU:HD12	1.40	1.12
1:D:214:ILE:HD12	1:D:224:LEU:HD23	1.23	1.12
1:D:444:ASP:OD2	1:D:490:ILE:CD1	1.96	1.12
1:I:444:ASP:OD2	1:I:490:ILE:CD1	1.96	1.12
1:K:444:ASP:OD2	1:K:490:ILE:CD1	1.96	1.12
1:B:523:LEU:CD1	1:C:440:ILE:HD13	1.79	1.12
1:F:214:ILE:HD12	1:F:224:LEU:HD23	1.24	1.12
1:F:442:VAL:HG11	1:F:488:PRO:HG3	1.30	1.12
1:G:214:ILE:HD12	1:G:224:LEU:HD23	1.24	1.12
1:G:444:ASP:OD2	1:G:490:ILE:CD1	1.96	1.12
1:G:523:LEU:CD1	1:H:440:ILE:HD13	1.78	1.12
1:J:444:ASP:OD2	1:J:490:ILE:CD1	1.96	1.12
1:N:523:LEU:CD1	1:O:440:ILE:HD13	1.78	1.12
1:A:442:VAL:HG11	1:A:488:PRO:HG3	1.30	1.11
1:A:523:LEU:CD1	1:B:440:ILE:HD13	1.78	1.11
1:H:214:ILE:HD12	1:H:224:LEU:HD23	1.24	1.11
1:I:365:GLY:HA2	1:I:399:THR:HG23	1.28	1.11
1:J:214:ILE:HD12	1:J:224:LEU:HD23	1.24	1.11
1:B:157:ARG:O	1:C:140:LEU:HD12	1.42	1.11
1:C:214:ILE:HD12	1:C:224:LEU:HD23	1.24	1.11
1:E:214:ILE:HD12	1:E:224:LEU:HD23	1.24	1.11
1:J:523:LEU:CD1	1:K:440:ILE:HD13	1.79	1.11
1:M:365:GLY:HA2	1:M:399:THR:HG23	1.27	1.11
1:A:153:GLU:O	1:A:157:ARG:CG	1.99	1.11
1:B:214:ILE:HD12	1:B:224:LEU:HD23	1.24	1.11
1:E:444:ASP:OD2	1:E:490:ILE:CD1	1.96	1.11
1:E:523:LEU:HD11	1:F:440:ILE:HD13	1.11	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:365:GLY:HA2	1:L:399:THR:HG23	1.27	1.11
1:N:442:VAL:HG11	1:N:488:PRO:HG3	1.30	1.11
1:D:153:GLU:O	1:D:157:ARG:CG	1.99	1.11
1:F:444:ASP:OD2	1:F:490:ILE:CD1	1.96	1.11
1:F:525:THR:HG21	1:G:440:ILE:HD11	1.32	1.11
1:O:153:GLU:O	1:O:157:ARG:CG	1.99	1.11
1:C:109:VAL:HG21	1:D:135:PRO:HD2	1.30	1.11
1:E:153:GLU:O	1:E:157:ARG:CG	1.99	1.11
1:L:153:GLU:O	1:L:157:ARG:CG	1.99	1.11
1:N:157:ARG:O	1:O:140:LEU:HD12	1.44	1.10
1:N:365:GLY:HA2	1:N:399:THR:HG23	1.27	1.10
1:M:153:GLU:O	1:M:157:ARG:CG	1.99	1.10
1:M:523:LEU:CD1	1:N:440:ILE:HD13	1.78	1.10
1:B:153:GLU:O	1:B:157:ARG:CG	1.99	1.10
1:G:442:VAL:HG11	1:G:488:PRO:HG3	1.30	1.10
1:I:214:ILE:HD12	1:I:224:LEU:HD23	1.24	1.10
1:D:157:ARG:O	1:E:140:LEU:HD12	1.43	1.10
1:M:109:VAL:HG21	1:N:135:PRO:HD2	1.29	1.10
1:C:153:GLU:O	1:C:157:ARG:CG	1.99	1.10
1:D:523:LEU:HD11	1:E:440:ILE:HD13	1.10	1.10
1:K:153:GLU:O	1:K:157:ARG:CG	1.99	1.10
1:N:153:GLU:O	1:N:157:ARG:CG	1.99	1.10
1:F:523:LEU:HD11	1:G:440:ILE:HD13	1.11	1.09
1:H:153:GLU:O	1:H:157:ARG:CG	1.99	1.09
1:I:109:VAL:HG21	1:J:135:PRO:HD2	1.30	1.09
1:K:365:GLY:HA2	1:K:399:THR:HG23	1.28	1.09
1:N:109:VAL:HG21	1:O:135:PRO:HD2	1.30	1.09
1:A:140:LEU:HD12	1:O:157:ARG:O	1.49	1.09
1:I:153:GLU:O	1:I:157:ARG:CG	1.99	1.09
1:C:525:THR:HG21	1:D:440:ILE:HD11	1.31	1.09
1:F:153:GLU:O	1:F:157:ARG:CG	1.99	1.09
1:G:153:GLU:O	1:G:157:ARG:CG	1.99	1.09
1:G:525:THR:HG21	1:H:440:ILE:HD11	1.31	1.09
1:H:106:VAL:HG21	1:H:158:VAL:HG13	1.33	1.09
1:I:523:LEU:HD11	1:J:440:ILE:HD13	1.11	1.09
1:J:525:THR:HG21	1:K:440:ILE:HD11	1.31	1.09
1:K:442:VAL:HG11	1:K:488:PRO:HG3	1.30	1.09
1:O:365:GLY:HA2	1:O:399:THR:HG23	1.28	1.09
1:C:365:GLY:HA2	1:C:399:THR:HG23	1.27	1.09
1:D:442:VAL:HG11	1:D:488:PRO:HG3	1.30	1.09
1:E:109:VAL:HG21	1:F:135:PRO:HD2	1.29	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:525:THR:HG21	1:L:440:ILE:HD11	1.31	1.09
1:I:106:VAL:HG21	1:I:158:VAL:HG13	1.34	1.09
1:J:365:GLY:HA2	1:J:399:THR:HG23	1.28	1.09
1:C:523:LEU:HD11	1:D:440:ILE:HD13	1.09	1.08
1:J:523:LEU:HD11	1:K:440:ILE:HD13	1.10	1.08
1:H:109:VAL:HG21	1:I:135:PRO:HD2	1.30	1.08
1:D:109:VAL:HG21	1:E:135:PRO:HD2	1.30	1.08
1:B:523:LEU:HD11	1:C:440:ILE:HD13	1.11	1.08
1:I:525:THR:HG21	1:J:440:ILE:HD11	1.32	1.08
1:J:153:GLU:O	1:J:157:ARG:CG	1.99	1.08
1:L:109:VAL:HG21	1:M:135:PRO:HD2	1.30	1.08
1:A:365:GLY:HA2	1:A:399:THR:HG23	1.27	1.08
1:M:523:LEU:HD11	1:N:440:ILE:HD13	1.12	1.08
1:G:106:VAL:HG21	1:G:158:VAL:HG13	1.33	1.07
1:M:442:VAL:HG11	1:M:488:PRO:HG3	1.30	1.07
1:F:109:VAL:HG21	1:G:135:PRO:HD2	1.30	1.07
1:O:106:VAL:HG21	1:O:158:VAL:HG13	1.33	1.07
1:J:106:VAL:HG21	1:J:158:VAL:HG13	1.33	1.07
1:A:135:PRO:HD2	1:O:109:VAL:HG21	1.32	1.07
1:A:440:ILE:HD11	1:O:525:THR:HG21	1.31	1.07
1:I:442:VAL:HG11	1:I:488:PRO:HG3	1.30	1.07
1:K:109:VAL:HG21	1:L:135:PRO:HD2	1.30	1.07
1:K:523:LEU:HD11	1:L:440:ILE:HD13	1.10	1.07
1:B:442:VAL:HG11	1:B:488:PRO:HG3	1.30	1.07
1:G:101:THR:HG23	1:G:141:ILE:O	1.55	1.07
1:H:525:THR:HG21	1:I:440:ILE:HD11	1.31	1.07
1:M:101:THR:HG23	1:M:141:ILE:O	1.55	1.07
1:G:109:VAL:HG21	1:H:135:PRO:HD2	1.30	1.06
1:H:101:THR:HG23	1:H:141:ILE:O	1.55	1.06
1:J:101:THR:HG23	1:J:141:ILE:O	1.55	1.06
1:E:101:THR:HG23	1:E:141:ILE:O	1.55	1.06
1:H:523:LEU:HD11	1:I:440:ILE:HD13	1.10	1.06
1:L:121:LEU:HD22	1:L:151:LEU:HG	1.06	1.06
1:O:442:VAL:HG11	1:O:488:PRO:HG3	1.30	1.06
1:A:106:VAL:HG21	1:A:158:VAL:HG13	1.33	1.06
1:D:101:THR:HG23	1:D:141:ILE:O	1.55	1.06
1:O:121:LEU:HD22	1:O:151:LEU:HG	1.07	1.06
1:L:523:LEU:HD11	1:M:440:ILE:HD13	1.10	1.06
1:L:525:THR:HG21	1:M:440:ILE:HD11	1.31	1.06
1:A:121:LEU:HD22	1:A:151:LEU:HG	1.06	1.06
1:B:106:VAL:HG21	1:B:158:VAL:HG13	1.33	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:109:VAL:HG21	1:K:135:PRO:HD2	1.30	1.06
1:K:101:THR:HG23	1:K:141:ILE:O	1.55	1.06
1:N:525:THR:HG21	1:O:440:ILE:HD11	1.32	1.06
1:A:525:THR:HG21	1:B:440:ILE:HD11	1.32	1.05
1:B:365:GLY:HA2	1:B:399:THR:HG23	1.27	1.05
1:L:101:THR:HG23	1:L:141:ILE:O	1.55	1.05
1:N:523:LEU:HD11	1:O:440:ILE:HD13	1.11	1.05
1:A:101:THR:HG23	1:A:141:ILE:O	1.56	1.05
1:N:106:VAL:HG21	1:N:158:VAL:HG13	1.33	1.05
1:A:523:LEU:HD11	1:B:440:ILE:HD13	1.11	1.05
1:B:101:THR:HG23	1:B:141:ILE:O	1.55	1.05
1:G:523:LEU:HD11	1:H:440:ILE:HD13	1.10	1.05
1:K:121:LEU:HD22	1:K:151:LEU:HG	1.06	1.05
1:M:106:VAL:HG21	1:M:158:VAL:HG13	1.33	1.05
1:M:121:LEU:HD22	1:M:151:LEU:HG	1.06	1.05
1:N:101:THR:HG23	1:N:141:ILE:O	1.55	1.05
1:C:106:VAL:HG21	1:C:158:VAL:HG13	1.33	1.05
1:G:326:ILE:HD11	1:G:502:GLN:HE21	1.20	1.05
1:I:326:ILE:HD11	1:I:502:GLN:HE21	1.20	1.05
1:F:106:VAL:HG21	1:F:158:VAL:HG13	1.33	1.05
1:F:101:THR:HG23	1:F:141:ILE:O	1.55	1.04
1:I:101:THR:HG23	1:I:141:ILE:O	1.55	1.04
1:N:326:ILE:HD11	1:N:502:GLN:HE21	1.20	1.04
1:O:101:THR:HG23	1:O:141:ILE:O	1.55	1.04
1:D:106:VAL:HG21	1:D:158:VAL:HG13	1.33	1.04
1:H:326:ILE:HD11	1:H:502:GLN:HE21	1.20	1.04
1:K:106:VAL:HG21	1:K:158:VAL:HG13	1.33	1.04
1:M:525:THR:HG21	1:N:440:ILE:HD11	1.32	1.04
1:B:525:THR:HG21	1:C:440:ILE:HD11	1.32	1.04
1:N:262:SER:HB2	1:N:283:VAL:CG1	1.88	1.04
1:A:440:ILE:HD13	1:O:523:LEU:HD11	1.10	1.04
1:B:121:LEU:HD22	1:B:151:LEU:HG	1.06	1.04
1:F:326:ILE:HD11	1:F:502:GLN:HE21	1.20	1.04
1:H:262:SER:HB2	1:H:283:VAL:CG1	1.88	1.04
1:J:326:ILE:HD11	1:J:502:GLN:HE21	1.20	1.04
1:L:106:VAL:HG21	1:L:158:VAL:HG13	1.33	1.04
1:M:262:SER:HB2	1:M:283:VAL:CG1	1.88	1.04
1:N:121:LEU:HD22	1:N:151:LEU:HG	1.06	1.04
1:G:262:SER:HB2	1:G:283:VAL:CG1	1.88	1.03
1:H:121:LEU:HD22	1:H:151:LEU:HG	1.06	1.03
1:I:121:LEU:HD22	1:I:151:LEU:HG	1.06	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:321:LEU:HD22	1:N:595:ILE:HG21	1.40	1.03
1:E:106:VAL:HG21	1:E:158:VAL:HG13	1.34	1.03
1:I:262:SER:HB2	1:I:283:VAL:CG1	1.88	1.03
1:B:369:ALA:HB1	1:B:397:TYR:CD1	1.93	1.03
1:H:369:ALA:HB1	1:H:397:TYR:CD1	1.93	1.03
1:J:369:ALA:HB1	1:J:397:TYR:CD1	1.93	1.03
1:C:101:THR:HG23	1:C:141:ILE:O	1.55	1.03
1:C:262:SER:HB2	1:C:283:VAL:CG1	1.88	1.03
1:D:262:SER:HB2	1:D:283:VAL:CG1	1.88	1.03
1:D:369:ALA:HB1	1:D:397:TYR:CD1	1.93	1.03
1:G:121:LEU:HD22	1:G:151:LEU:HG	1.06	1.03
1:I:369:ALA:HB1	1:I:397:TYR:CD1	1.93	1.03
1:M:369:ALA:HB1	1:M:397:TYR:CD1	1.93	1.03
1:O:321:LEU:HD22	1:O:595:ILE:HG21	1.41	1.03
1:C:369:ALA:HB1	1:C:397:TYR:CD1	1.93	1.03
1:D:121:LEU:HD22	1:D:151:LEU:HG	1.06	1.03
1:E:121:LEU:HD22	1:E:151:LEU:HG	1.06	1.03
1:F:121:LEU:HD22	1:F:151:LEU:HG	1.06	1.03
1:K:369:ALA:HB1	1:K:397:TYR:CD1	1.94	1.03
1:A:369:ALA:HB1	1:A:397:TYR:CD1	1.93	1.02
1:E:369:ALA:HB1	1:E:397:TYR:CD1	1.93	1.02
1:F:262:SER:HB2	1:F:283:VAL:CG1	1.88	1.02
1:F:369:ALA:HB1	1:F:397:TYR:CD1	1.93	1.02
1:G:369:ALA:HB1	1:G:397:TYR:CD1	1.93	1.02
1:J:262:SER:HB2	1:J:283:VAL:CG1	1.88	1.02
1:L:369:ALA:HB1	1:L:397:TYR:CD1	1.93	1.02
1:O:262:SER:HB2	1:O:283:VAL:CG1	1.88	1.02
1:O:326:ILE:HD11	1:O:502:GLN:HE21	1.20	1.02
1:B:262:SER:HB2	1:B:283:VAL:CG1	1.88	1.02
1:E:262:SER:HB2	1:E:283:VAL:CG1	1.88	1.02
1:J:121:LEU:HD22	1:J:151:LEU:HG	1.06	1.02
1:M:321:LEU:HD22	1:M:595:ILE:HG21	1.41	1.02
1:M:326:ILE:HD11	1:M:502:GLN:HE21	1.20	1.02
1:A:262:SER:HB2	1:A:283:VAL:CG1	1.88	1.02
1:C:121:LEU:HD22	1:C:151:LEU:HG	1.06	1.02
1:D:326:ILE:HD11	1:D:502:GLN:HE21	1.19	1.02
1:E:326:ILE:HD11	1:E:502:GLN:HE21	1.20	1.02
1:K:326:ILE:HD11	1:K:502:GLN:HE21	1.20	1.02
1:L:326:ILE:HD11	1:L:502:GLN:HE21	1.20	1.02
1:N:369:ALA:HB1	1:N:397:TYR:CD1	1.93	1.02
1:O:369:ALA:HB1	1:O:397:TYR:CD1	1.94	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:321:LEU:HD22	1:J:595:ILE:HG21	1.41	1.02
1:C:326:ILE:HD11	1:C:502:GLN:HE21	1.20	1.01
1:I:321:LEU:HD22	1:I:595:ILE:HG21	1.41	1.01
1:K:262:SER:HB2	1:K:283:VAL:CG1	1.88	1.01
1:L:262:SER:HB2	1:L:283:VAL:CG1	1.88	1.01
1:A:321:LEU:HD22	1:A:595:ILE:HG21	1.41	1.01
1:A:326:ILE:HD11	1:A:502:GLN:HE21	1.20	1.01
1:B:326:ILE:HD11	1:B:502:GLN:HE21	1.20	1.01
1:H:321:LEU:HD22	1:H:595:ILE:HG21	1.41	1.01
1:L:321:LEU:HD22	1:L:595:ILE:HG21	1.41	1.00
1:G:321:LEU:HD22	1:G:595:ILE:HG21	1.41	1.00
1:C:121:LEU:HD22	1:C:151:LEU:CG	1.91	1.00
1:J:169:VAL:HG11	1:J:228:ILE:HG21	1.44	1.00
1:B:121:LEU:HD22	1:B:151:LEU:CG	1.91	1.00
1:D:121:LEU:HD22	1:D:151:LEU:CG	1.91	1.00
1:F:169:VAL:HG11	1:F:228:ILE:HG21	1.44	1.00
1:J:167:GLU:H	1:J:214:ILE:HG22	1.27	1.00
1:N:552:VAL:HG22	1:N:565:PHE:HB3	1.44	1.00
1:G:169:VAL:HG11	1:G:228:ILE:HG21	1.44	1.00
1:B:321:LEU:HD22	1:B:595:ILE:HG21	1.41	0.99
1:F:321:LEU:HD22	1:F:595:ILE:HG21	1.41	0.99
1:G:167:GLU:H	1:G:214:ILE:HG22	1.27	0.99
1:K:169:VAL:HG11	1:K:228:ILE:HG21	1.44	0.99
1:M:169:VAL:HG11	1:M:228:ILE:HG21	1.44	0.99
1:A:523:LEU:CD1	1:B:440:ILE:CD1	2.39	0.99
1:B:523:LEU:CD1	1:C:440:ILE:CD1	2.39	0.99
1:I:169:VAL:HG11	1:I:228:ILE:HG21	1.44	0.99
1:N:523:LEU:CD1	1:O:440:ILE:CD1	2.39	0.99
1:O:552:VAL:HG22	1:O:565:PHE:HB3	1.44	0.99
1:C:523:LEU:CD1	1:D:440:ILE:CD1	2.39	0.99
1:D:523:LEU:CD1	1:E:440:ILE:CD1	2.39	0.99
1:E:121:LEU:HD22	1:E:151:LEU:CG	1.91	0.99
1:E:167:GLU:H	1:E:214:ILE:HG22	1.27	0.99
1:E:169:VAL:HG11	1:E:228:ILE:HG21	1.44	0.99
1:H:169:VAL:HG11	1:H:228:ILE:HG21	1.44	0.99
1:J:552:VAL:HG22	1:J:565:PHE:HB3	1.44	0.99
1:M:442:VAL:CG1	1:M:488:PRO:HG3	1.92	0.99
1:M:552:VAL:HG22	1:M:565:PHE:HB3	1.44	0.99
1:N:169:VAL:HG11	1:N:228:ILE:HG21	1.44	0.99
1:E:523:LEU:CD1	1:F:440:ILE:CD1	2.39	0.99
1:I:552:VAL:HG22	1:I:565:PHE:HB3	1.44	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:321:LEU:HD22	1:K:595:ILE:HG21	1.41	0.99
1:A:440:ILE:CD1	1:O:523:LEU:CD1	2.39	0.99
1:C:169:VAL:HG11	1:C:228:ILE:HG21	1.44	0.99
1:H:121:LEU:HD22	1:H:151:LEU:CG	1.91	0.99
1:L:169:VAL:HG11	1:L:228:ILE:HG21	1.44	0.99
1:N:121:LEU:HD22	1:N:151:LEU:CG	1.91	0.99
1:O:321:LEU:HD22	1:O:595:ILE:CG2	1.93	0.99
1:A:121:LEU:HD22	1:A:151:LEU:CG	1.91	0.99
1:F:442:VAL:CG1	1:F:488:PRO:HG3	1.92	0.99
1:K:552:VAL:HG22	1:K:565:PHE:HB3	1.44	0.99
1:L:552:VAL:HG22	1:L:565:PHE:HB3	1.45	0.99
1:M:121:LEU:HD22	1:M:151:LEU:CG	1.91	0.99
1:N:321:LEU:HD22	1:N:595:ILE:CG2	1.93	0.99
1:N:442:VAL:CG1	1:N:488:PRO:HG3	1.92	0.99
1:O:121:LEU:HD22	1:O:151:LEU:CG	1.91	0.99
1:E:321:LEU:HD22	1:E:595:ILE:HG21	1.41	0.99
1:F:167:GLU:H	1:F:214:ILE:HG22	1.27	0.99
1:G:121:LEU:HD22	1:G:151:LEU:CG	1.91	0.99
1:G:442:VAL:CG1	1:G:488:PRO:HG3	1.93	0.99
1:I:121:LEU:HD22	1:I:151:LEU:CG	1.91	0.99
1:J:121:LEU:HD22	1:J:151:LEU:CG	1.91	0.99
1:L:121:LEU:HD22	1:L:151:LEU:CG	1.91	0.99
1:D:169:VAL:HG11	1:D:228:ILE:HG21	1.44	0.98
1:A:169:VAL:HG11	1:A:228:ILE:HG21	1.44	0.98
1:A:442:VAL:CG1	1:A:488:PRO:HG3	1.92	0.98
1:H:167:GLU:H	1:H:214:ILE:HG22	1.27	0.98
1:J:321:LEU:HD22	1:J:595:ILE:CG2	1.93	0.98
1:A:552:VAL:HG22	1:A:565:PHE:HB3	1.45	0.98
1:B:552:VAL:HG22	1:B:565:PHE:HB3	1.44	0.98
1:K:121:LEU:HD22	1:K:151:LEU:CG	1.91	0.98
1:A:321:LEU:HD22	1:A:595:ILE:CG2	1.94	0.98
1:J:442:VAL:CG1	1:J:488:PRO:HG3	1.92	0.98
1:D:167:GLU:H	1:D:214:ILE:HG22	1.27	0.98
1:H:442:VAL:CG1	1:H:488:PRO:HG3	1.93	0.98
1:K:442:VAL:CG1	1:K:488:PRO:HG3	1.92	0.98
1:L:167:GLU:H	1:L:214:ILE:HG22	1.28	0.98
1:L:321:LEU:HD22	1:L:595:ILE:CG2	1.93	0.98
1:M:321:LEU:HD22	1:M:595:ILE:CG2	1.94	0.98
1:B:321:LEU:HD22	1:B:595:ILE:CG2	1.93	0.98
1:K:321:LEU:HD22	1:K:595:ILE:CG2	1.93	0.98
1:O:169:VAL:HG11	1:O:228:ILE:HG21	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:321:LEU:HD22	1:D:595:ILE:HG21	1.40	0.98
1:F:121:LEU:HD22	1:F:151:LEU:CG	1.91	0.98
1:B:167:GLU:H	1:B:214:ILE:HG22	1.27	0.98
1:C:321:LEU:HD22	1:C:595:ILE:CG2	1.93	0.98
1:B:442:VAL:CG1	1:B:488:PRO:HG3	1.93	0.98
1:I:167:GLU:H	1:I:214:ILE:HG22	1.27	0.98
1:D:321:LEU:HD22	1:D:595:ILE:CG2	1.93	0.98
1:E:442:VAL:CG1	1:E:488:PRO:HG3	1.93	0.98
1:N:167:GLU:H	1:N:214:ILE:HG22	1.27	0.98
1:B:169:VAL:HG11	1:B:228:ILE:HG21	1.44	0.97
1:L:442:VAL:CG1	1:L:488:PRO:HG3	1.93	0.97
1:C:321:LEU:HD22	1:C:595:ILE:HG21	1.41	0.97
1:I:442:VAL:CG1	1:I:488:PRO:HG3	1.92	0.97
1:C:442:VAL:CG1	1:C:488:PRO:HG3	1.93	0.97
1:I:321:LEU:HD22	1:I:595:ILE:CG2	1.94	0.97
1:O:167:GLU:H	1:O:214:ILE:HG22	1.27	0.97
1:C:552:VAL:HG22	1:C:565:PHE:HB3	1.44	0.97
1:J:523:LEU:CD1	1:K:440:ILE:CD1	2.40	0.97
1:M:167:GLU:H	1:M:214:ILE:HG22	1.27	0.97
1:G:321:LEU:HD22	1:G:595:ILE:CG2	1.93	0.97
1:O:442:VAL:CG1	1:O:488:PRO:HG3	1.92	0.97
1:B:104:VAL:O	1:B:139:ILE:HB	1.65	0.97
1:B:214:ILE:HD11	1:B:220:VAL:HG12	0.97	0.97
1:F:321:LEU:HD22	1:F:595:ILE:CG2	1.93	0.97
1:F:523:LEU:CD1	1:G:440:ILE:CD1	2.39	0.97
1:D:442:VAL:CG1	1:D:488:PRO:HG3	1.93	0.97
1:E:321:LEU:HD22	1:E:595:ILE:CG2	1.94	0.97
1:G:552:VAL:HG22	1:G:565:PHE:HB3	1.44	0.97
1:H:104:VAL:O	1:H:139:ILE:HB	1.65	0.97
1:H:552:VAL:HG22	1:H:565:PHE:HB3	1.45	0.97
1:N:214:ILE:HD11	1:N:220:VAL:HG12	0.97	0.97
1:C:104:VAL:O	1:C:139:ILE:HB	1.65	0.96
1:C:167:GLU:H	1:C:214:ILE:HG22	1.27	0.96
1:E:552:VAL:HG22	1:E:565:PHE:HB3	1.45	0.96
1:F:552:VAL:HG22	1:F:565:PHE:HB3	1.44	0.96
1:I:214:ILE:HD11	1:I:220:VAL:HG12	0.97	0.96
1:K:214:ILE:HD11	1:K:220:VAL:HG12	0.97	0.96
1:H:321:LEU:HD22	1:H:595:ILE:CG2	1.93	0.96
1:D:214:ILE:HD11	1:D:220:VAL:HG12	0.97	0.96
1:F:214:ILE:HD11	1:F:220:VAL:HG12	0.97	0.96
1:G:328:GLU:OE1	1:G:521:ARG:NH2	1.98	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:214:ILE:HD11	1:H:220:VAL:HG12	0.97	0.96
1:I:104:VAL:O	1:I:139:ILE:HB	1.65	0.96
1:K:167:GLU:H	1:K:214:ILE:HG22	1.27	0.96
1:A:328:GLU:OE1	1:A:521:ARG:NH2	1.98	0.96
1:D:552:VAL:HG22	1:D:565:PHE:HB3	1.45	0.96
1:A:104:VAL:O	1:A:139:ILE:HB	1.65	0.96
1:I:328:GLU:OE1	1:I:521:ARG:NH2	1.98	0.96
1:B:328:GLU:OE1	1:B:521:ARG:NH2	1.99	0.96
1:K:523:LEU:CD1	1:L:440:ILE:CD1	2.39	0.96
1:N:328:GLU:OE1	1:N:521:ARG:NH2	1.98	0.96
1:G:104:VAL:O	1:G:139:ILE:HB	1.65	0.96
1:O:214:ILE:HD11	1:O:220:VAL:HG12	0.97	0.96
1:D:104:VAL:O	1:D:139:ILE:HB	1.65	0.96
1:D:586:ILE:HG12	1:D:595:ILE:HD12	1.48	0.96
1:O:104:VAL:O	1:O:139:ILE:HB	1.65	0.96
1:A:214:ILE:HD11	1:A:220:VAL:HG12	0.97	0.96
1:E:214:ILE:HD11	1:E:220:VAL:HG12	0.97	0.96
1:L:214:ILE:HD11	1:L:220:VAL:HG12	0.97	0.96
1:N:176:ALA:HB1	1:N:205:ALA:HB3	1.48	0.96
1:F:328:GLU:OE1	1:F:521:ARG:NH1	1.99	0.95
1:M:328:GLU:OE1	1:M:521:ARG:NH2	1.99	0.95
1:E:104:VAL:O	1:E:139:ILE:HB	1.65	0.95
1:J:104:VAL:O	1:J:139:ILE:HB	1.65	0.95
1:N:104:VAL:O	1:N:139:ILE:HB	1.65	0.95
1:B:176:ALA:HB1	1:B:205:ALA:HB3	1.48	0.95
1:C:176:ALA:HB1	1:C:205:ALA:HB3	1.48	0.95
1:G:214:ILE:HD11	1:G:220:VAL:HG12	0.97	0.95
1:H:328:GLU:OE1	1:H:521:ARG:NH2	1.98	0.95
1:E:328:GLU:OE1	1:E:521:ARG:NH2	1.99	0.95
1:E:328:GLU:OE1	1:E:521:ARG:NH1	2.00	0.95
1:F:104:VAL:O	1:F:139:ILE:HB	1.65	0.95
1:J:214:ILE:HD11	1:J:220:VAL:HG12	0.97	0.95
1:K:104:VAL:O	1:K:139:ILE:HB	1.65	0.95
1:K:328:GLU:OE1	1:K:521:ARG:NH2	1.98	0.95
1:B:328:GLU:OE1	1:B:521:ARG:NH1	1.99	0.95
1:C:214:ILE:HD11	1:C:220:VAL:HG12	0.97	0.95
1:C:586:ILE:HG12	1:C:595:ILE:HD12	1.48	0.95
1:G:586:ILE:HG12	1:G:595:ILE:HD12	1.48	0.95
1:H:586:ILE:HG12	1:H:595:ILE:HD12	1.48	0.95
1:I:523:LEU:CD1	1:J:440:ILE:CD1	2.39	0.95
1:L:328:GLU:OE1	1:L:521:ARG:NH2	1.98	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:167:GLU:H	1:A:214:ILE:HG22	1.27	0.95
1:A:176:ALA:HB1	1:A:205:ALA:HB3	1.48	0.95
1:A:586:ILE:HG12	1:A:595:ILE:HD12	1.48	0.95
1:J:328:GLU:OE1	1:J:521:ARG:NH2	1.98	0.95
1:H:523:LEU:CD1	1:I:440:ILE:CD1	2.39	0.95
1:M:176:ALA:HB1	1:M:205:ALA:HB3	1.48	0.95
1:O:176:ALA:HB1	1:O:205:ALA:HB3	1.49	0.95
1:A:328:GLU:OE1	1:A:521:ARG:NH1	2.00	0.95
1:C:328:GLU:OE1	1:C:521:ARG:NH2	1.98	0.95
1:M:104:VAL:O	1:M:139:ILE:HB	1.65	0.95
1:M:214:ILE:HD11	1:M:220:VAL:HG12	0.97	0.95
1:O:586:ILE:HG12	1:O:595:ILE:HD12	1.48	0.95
1:H:169:VAL:HG21	1:H:228:ILE:HD13	1.49	0.94
1:I:169:VAL:HG21	1:I:228:ILE:HD13	1.49	0.94
1:I:328:GLU:OE1	1:I:521:ARG:NH1	2.00	0.94
1:L:523:LEU:CD1	1:M:440:ILE:CD1	2.39	0.94
1:E:586:ILE:HG12	1:E:595:ILE:HD12	1.48	0.94
1:G:169:VAL:HG21	1:G:228:ILE:HD13	1.49	0.94
1:G:328:GLU:OE1	1:G:521:ARG:NH1	2.00	0.94
1:J:328:GLU:OE1	1:J:521:ARG:NH1	2.00	0.94
1:O:328:GLU:OE1	1:O:521:ARG:NH2	1.98	0.94
1:D:328:GLU:OE1	1:D:521:ARG:NH2	1.98	0.94
1:F:169:VAL:HG21	1:F:228:ILE:HD13	1.49	0.94
1:G:523:LEU:CD1	1:H:440:ILE:CD1	2.40	0.94
1:B:167:GLU:HG2	1:B:214:ILE:HG22	1.50	0.94
1:D:176:ALA:HB1	1:D:205:ALA:HB3	1.49	0.94
1:L:104:VAL:O	1:L:139:ILE:HB	1.65	0.94
1:J:169:VAL:HG21	1:J:228:ILE:HD13	1.50	0.94
1:M:167:GLU:HG2	1:M:214:ILE:HG21	1.50	0.94
1:A:167:GLU:HG2	1:A:214:ILE:HG22	1.50	0.94
1:E:169:VAL:HG21	1:E:228:ILE:HD13	1.49	0.94
1:L:176:ALA:HB1	1:L:205:ALA:HB3	1.49	0.94
1:C:167:GLU:HG2	1:C:214:ILE:HG22	1.50	0.94
1:D:328:GLU:OE1	1:D:521:ARG:NH1	2.00	0.94
1:I:586:ILE:HG12	1:I:595:ILE:HD12	1.48	0.94
1:M:523:LEU:CD1	1:N:440:ILE:CD1	2.39	0.94
1:N:586:ILE:HG12	1:N:595:ILE:HD12	1.48	0.94
1:O:167:GLU:HG2	1:O:214:ILE:HG22	1.50	0.94
1:C:169:VAL:HG21	1:C:228:ILE:HD13	1.50	0.94
1:E:176:ALA:HB1	1:E:205:ALA:HB3	1.48	0.94
1:F:328:GLU:OE1	1:F:521:ARG:NH2	1.99	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:167:GLU:HG2	1:L:214:ILE:HG21	1.50	0.94
1:C:328:GLU:OE1	1:C:521:ARG:NH1	2.00	0.94
1:L:169:VAL:HG21	1:L:228:ILE:HD13	1.49	0.94
1:D:169:VAL:HG21	1:D:228:ILE:HD13	1.50	0.93
1:B:169:VAL:HG21	1:B:228:ILE:HD13	1.50	0.93
1:K:169:VAL:HG21	1:K:228:ILE:HD13	1.50	0.93
1:N:167:GLU:HG2	1:N:214:ILE:HG21	1.50	0.93
1:N:169:VAL:HG21	1:N:228:ILE:HD13	1.49	0.93
1:D:167:GLU:HG2	1:D:214:ILE:HG22	1.50	0.93
1:F:586:ILE:HG12	1:F:595:ILE:HD12	1.48	0.93
1:A:169:VAL:HG21	1:A:228:ILE:HD13	1.49	0.93
1:H:328:GLU:OE1	1:H:521:ARG:NH1	2.00	0.93
1:K:176:ALA:HB1	1:K:205:ALA:HB3	1.48	0.93
1:M:328:GLU:OE1	1:M:521:ARG:NH1	2.00	0.93
1:G:167:GLU:HG2	1:G:214:ILE:HG21	1.50	0.93
1:M:169:VAL:HG21	1:M:228:ILE:HD13	1.49	0.93
1:N:167:GLU:HG2	1:N:214:ILE:HG22	1.49	0.93
1:O:169:VAL:HG21	1:O:228:ILE:HD13	1.50	0.93
1:C:167:GLU:HG2	1:C:214:ILE:HG21	1.50	0.93
1:H:167:GLU:HG2	1:H:214:ILE:HG21	1.50	0.93
1:K:167:GLU:HG2	1:K:214:ILE:HG21	1.50	0.93
1:M:586:ILE:HG12	1:M:595:ILE:HD12	1.48	0.93
1:N:328:GLU:OE1	1:N:521:ARG:NH1	2.00	0.93
1:K:328:GLU:OE1	1:K:521:ARG:NH1	2.00	0.93
1:L:328:GLU:OE1	1:L:521:ARG:NH1	2.00	0.93
1:O:167:GLU:HG2	1:O:214:ILE:HG21	1.50	0.93
1:F:176:ALA:HB1	1:F:205:ALA:HB3	1.48	0.92
1:O:328:GLU:OE1	1:O:521:ARG:NH1	2.00	0.92
1:E:167:GLU:HG2	1:E:214:ILE:HG22	1.50	0.92
1:B:586:ILE:HG12	1:B:595:ILE:HD12	1.48	0.92
1:F:167:GLU:HG2	1:F:214:ILE:HG21	1.50	0.92
1:J:176:ALA:HB1	1:J:205:ALA:HB3	1.48	0.92
1:M:167:GLU:HG2	1:M:214:ILE:HG22	1.50	0.92
1:B:167:GLU:HG2	1:B:214:ILE:HG21	1.50	0.92
1:G:176:ALA:HB1	1:G:205:ALA:HB3	1.48	0.92
1:J:586:ILE:HG12	1:J:595:ILE:HD12	1.49	0.92
1:L:169:VAL:HG11	1:L:228:ILE:CG2	1.99	0.92
1:J:167:GLU:HG2	1:J:214:ILE:HG21	1.50	0.92
1:J:169:VAL:HG11	1:J:228:ILE:CG2	1.99	0.92
1:M:157:ARG:HB3	1:N:140:LEU:HD11	1.51	0.92
1:E:169:VAL:HG11	1:E:228:ILE:CG2	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:169:VAL:HG11	1:I:228:ILE:CG2	1.99	0.91
1:D:167:GLU:HG2	1:D:214:ILE:HG21	1.50	0.91
1:I:167:GLU:HG2	1:I:214:ILE:HG21	1.50	0.91
1:K:169:VAL:HG11	1:K:228:ILE:CG2	2.00	0.91
1:N:169:VAL:HG11	1:N:228:ILE:CG2	1.99	0.91
1:O:169:VAL:HG11	1:O:228:ILE:CG2	1.99	0.91
1:F:167:GLU:HG2	1:F:214:ILE:HG22	1.49	0.91
1:F:169:VAL:HG11	1:F:228:ILE:CG2	1.99	0.91
1:L:586:ILE:HG12	1:L:595:ILE:HD12	1.48	0.91
1:M:169:VAL:HG11	1:M:228:ILE:CG2	1.99	0.91
1:A:169:VAL:HG11	1:A:228:ILE:CG2	1.99	0.91
1:D:169:VAL:HG11	1:D:228:ILE:CG2	1.99	0.91
1:H:169:VAL:HG11	1:H:228:ILE:CG2	1.99	0.91
1:I:176:ALA:HB1	1:I:205:ALA:HB3	1.49	0.91
1:J:167:GLU:HG2	1:J:214:ILE:HG22	1.50	0.91
1:K:167:GLU:HG2	1:K:214:ILE:HG22	1.50	0.91
1:L:167:GLU:HG2	1:L:214:ILE:HG22	1.49	0.91
1:G:169:VAL:HG11	1:G:228:ILE:CG2	1.99	0.91
1:C:169:VAL:HG11	1:C:228:ILE:CG2	1.99	0.91
1:H:176:ALA:HB1	1:H:205:ALA:HB3	1.49	0.91
1:H:602:TYR:CD1	1:I:635:HIS:NE2	2.39	0.91
1:K:586:ILE:HG12	1:K:595:ILE:HD12	1.48	0.91
1:L:602:TYR:CD1	1:M:635:HIS:NE2	2.39	0.91
1:B:169:VAL:HG11	1:B:228:ILE:CG2	1.99	0.91
1:I:157:ARG:HB3	1:J:140:LEU:HD11	1.51	0.91
1:A:602:TYR:CD1	1:B:635:HIS:NE2	2.39	0.90
1:N:157:ARG:HB3	1:O:140:LEU:HD11	1.53	0.90
1:A:167:GLU:HG2	1:A:214:ILE:HG21	1.50	0.90
1:I:167:GLU:HG2	1:I:214:ILE:HG22	1.50	0.90
1:L:328:GLU:OE1	1:L:521:ARG:CZ	2.20	0.90
1:D:168:VAL:HG12	1:D:213:LEU:HG	1.54	0.90
1:F:168:VAL:HG12	1:F:213:LEU:HG	1.54	0.90
1:E:138:ILE:HG22	1:E:139:ILE:H	1.37	0.90
1:G:167:GLU:HG2	1:G:214:ILE:HG22	1.50	0.90
1:K:602:TYR:CD1	1:L:635:HIS:NE2	2.41	0.90
1:L:157:ARG:HB3	1:M:140:LEU:HD11	1.53	0.90
1:G:157:ARG:HB3	1:H:140:LEU:HD11	1.53	0.89
1:G:168:VAL:HG12	1:G:213:LEU:HG	1.54	0.89
1:J:138:ILE:HG22	1:J:139:ILE:H	1.37	0.89
1:L:138:ILE:HG22	1:L:139:ILE:H	1.37	0.89
1:D:602:TYR:CD1	1:E:635:HIS:NE2	2.39	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:168:VAL:HG12	1:E:213:LEU:HG	1.54	0.89
1:E:602:TYR:CD1	1:F:635:HIS:NE2	2.40	0.89
1:H:168:VAL:HG12	1:H:213:LEU:HG	1.54	0.89
1:I:168:VAL:HG12	1:I:213:LEU:HG	1.54	0.89
1:E:167:GLU:HG2	1:E:214:ILE:HG21	1.50	0.89
1:I:328:GLU:OE1	1:I:521:ARG:CZ	2.20	0.89
1:J:328:GLU:OE1	1:J:521:ARG:CZ	2.20	0.89
1:K:328:GLU:OE1	1:K:521:ARG:CZ	2.20	0.89
1:A:138:ILE:HG22	1:A:139:ILE:H	1.37	0.89
1:B:168:VAL:HG12	1:B:213:LEU:HG	1.54	0.89
1:C:168:VAL:HG12	1:C:213:LEU:HG	1.54	0.89
1:I:602:TYR:CD1	1:J:635:HIS:NE2	2.40	0.89
1:N:328:GLU:OE1	1:N:521:ARG:CZ	2.20	0.89
1:O:138:ILE:HG22	1:O:139:ILE:H	1.37	0.89
1:C:138:ILE:HG22	1:C:139:ILE:H	1.37	0.89
1:O:328:GLU:OE1	1:O:521:ARG:CZ	2.20	0.89
1:K:525:THR:CG2	1:L:440:ILE:HD11	2.03	0.89
1:A:168:VAL:HG12	1:A:213:LEU:HG	1.54	0.89
1:C:328:GLU:OE1	1:C:521:ARG:CZ	2.20	0.89
1:E:525:THR:CG2	1:F:440:ILE:HD11	2.03	0.89
1:L:525:THR:CG2	1:M:440:ILE:HD11	2.03	0.89
1:M:328:GLU:OE1	1:M:521:ARG:CZ	2.20	0.89
1:D:233:VAL:O	1:D:235:MET:HE1	1.73	0.89
1:F:157:ARG:HB3	1:G:140:LEU:HD11	1.53	0.89
1:G:328:GLU:OE1	1:G:521:ARG:CZ	2.20	0.89
1:A:635:HIS:NE2	1:O:602:TYR:CD1	2.40	0.89
1:D:328:GLU:OE1	1:D:521:ARG:CZ	2.20	0.89
1:G:525:THR:CG2	1:H:440:ILE:HD11	2.03	0.89
1:H:167:GLU:HG2	1:H:214:ILE:HG22	1.50	0.89
1:A:140:LEU:HD11	1:O:157:ARG:HB3	1.53	0.88
1:D:525:THR:CG2	1:E:440:ILE:HD11	2.03	0.88
1:F:262:SER:HB2	1:F:283:VAL:HG11	1.55	0.88
1:F:525:THR:CG2	1:G:440:ILE:HD11	2.04	0.88
1:G:138:ILE:HG22	1:G:139:ILE:H	1.37	0.88
1:H:328:GLU:OE1	1:H:521:ARG:CZ	2.20	0.88
1:J:168:VAL:HG12	1:J:213:LEU:HG	1.54	0.88
1:B:285:ILE:HG12	1:B:296:LEU:CD2	2.04	0.88
1:E:328:GLU:OE1	1:E:521:ARG:CZ	2.20	0.88
1:H:138:ILE:HG22	1:H:139:ILE:H	1.37	0.88
1:M:456:VAL:HG21	1:M:518:PHE:CE1	2.09	0.88
1:M:602:TYR:CD1	1:N:635:HIS:NE2	2.41	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:138:ILE:HG22	1:N:139:ILE:H	1.37	0.88
1:O:233:VAL:O	1:O:235:MET:HE1	1.73	0.88
1:F:328:GLU:OE1	1:F:521:ARG:CZ	2.20	0.88
1:F:444:ASP:CG	1:F:490:ILE:HD12	1.94	0.88
1:J:525:THR:CG2	1:K:440:ILE:HD11	2.04	0.88
1:L:551:LYS:HB3	1:L:566:LYS:HG2	1.56	0.88
1:A:328:GLU:OE1	1:A:521:ARG:CZ	2.20	0.88
1:B:233:VAL:O	1:B:235:MET:HE1	1.74	0.88
1:E:157:ARG:HB3	1:F:140:LEU:HD11	1.53	0.88
1:H:525:THR:CG2	1:I:440:ILE:HD11	2.02	0.88
1:B:456:VAL:HG21	1:B:518:PHE:CE1	2.08	0.88
1:D:262:SER:HB2	1:D:283:VAL:HG11	1.55	0.88
1:E:444:ASP:CG	1:E:490:ILE:HD12	1.94	0.88
1:G:444:ASP:CG	1:G:490:ILE:HD12	1.94	0.88
1:G:602:TYR:CD1	1:H:635:HIS:NE2	2.41	0.88
1:J:456:VAL:HG21	1:J:518:PHE:CE1	2.08	0.88
1:K:551:LYS:HB3	1:K:566:LYS:HG2	1.56	0.88
1:D:157:ARG:HB3	1:E:140:LEU:HD11	1.53	0.88
1:E:285:ILE:HG12	1:E:296:LEU:CD2	2.04	0.88
1:H:285:ILE:HG12	1:H:296:LEU:CD2	2.04	0.88
1:K:168:VAL:HG12	1:K:213:LEU:HG	1.54	0.88
1:L:456:VAL:HG21	1:L:518:PHE:CE1	2.09	0.88
1:A:456:VAL:HG21	1:A:518:PHE:CE1	2.09	0.88
1:B:328:GLU:OE1	1:B:521:ARG:CZ	2.20	0.88
1:L:262:SER:HB2	1:L:283:VAL:HG11	1.54	0.88
1:M:551:LYS:HB3	1:M:566:LYS:HG2	1.56	0.88
1:O:168:VAL:HG12	1:O:213:LEU:HG	1.54	0.88
1:B:138:ILE:HG22	1:B:139:ILE:H	1.38	0.88
1:G:456:VAL:HG21	1:G:518:PHE:CE1	2.08	0.88
1:I:551:LYS:HB3	1:I:566:LYS:HG2	1.56	0.88
1:M:285:ILE:HG12	1:M:296:LEU:CD2	2.04	0.88
1:N:285:ILE:HG12	1:N:296:LEU:CD2	2.04	0.88
1:O:285:ILE:HG12	1:O:296:LEU:CD2	2.04	0.88
1:A:262:SER:HB2	1:A:283:VAL:HG12	1.56	0.88
1:B:121:LEU:HD11	1:B:150:ARG:HB2	1.56	0.88
1:D:444:ASP:CG	1:D:490:ILE:HD12	1.94	0.88
1:G:285:ILE:HG12	1:G:296:LEU:CD2	2.04	0.88
1:H:262:SER:HB2	1:H:283:VAL:HG11	1.54	0.88
1:H:551:LYS:HB3	1:H:566:LYS:HG2	1.56	0.88
1:I:285:ILE:HG12	1:I:296:LEU:CD2	2.04	0.88
1:I:444:ASP:CG	1:I:490:ILE:HD12	1.94	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:551:LYS:HB3	1:J:566:LYS:HG2	1.56	0.88
1:L:168:VAL:HG12	1:L:213:LEU:HG	1.54	0.88
1:C:444:ASP:CG	1:C:490:ILE:HD12	1.94	0.88
1:H:444:ASP:CG	1:H:490:ILE:HD12	1.94	0.88
1:I:121:LEU:HD11	1:I:150:ARG:HB2	1.56	0.88
1:O:262:SER:HB2	1:O:283:VAL:HG12	1.55	0.88
1:A:262:SER:HB2	1:A:283:VAL:HG11	1.54	0.87
1:B:262:SER:HB2	1:B:283:VAL:HG12	1.56	0.87
1:B:444:ASP:CG	1:B:490:ILE:HD12	1.94	0.87
1:C:262:SER:HB2	1:C:283:VAL:HG11	1.55	0.87
1:H:456:VAL:HG21	1:H:518:PHE:CE1	2.09	0.87
1:J:444:ASP:CG	1:J:490:ILE:HD12	1.94	0.87
1:M:168:VAL:HG12	1:M:213:LEU:HG	1.54	0.87
1:N:456:VAL:HG21	1:N:518:PHE:CE1	2.08	0.87
1:N:551:LYS:HB3	1:N:566:LYS:HG2	1.56	0.87
1:A:157:ARG:HB3	1:B:140:LEU:HD11	1.56	0.87
1:C:121:LEU:HD11	1:C:150:ARG:HB2	1.57	0.87
1:C:525:THR:CG2	1:D:440:ILE:HD11	2.03	0.87
1:F:456:VAL:HG21	1:F:518:PHE:CE1	2.08	0.87
1:M:176:ALA:HB1	1:M:205:ALA:CB	2.05	0.87
1:A:285:ILE:HG12	1:A:296:LEU:CD2	2.04	0.87
1:E:262:SER:HB2	1:E:283:VAL:HG11	1.55	0.87
1:J:121:LEU:HD11	1:J:150:ARG:HB2	1.56	0.87
1:K:157:ARG:HB3	1:L:140:LEU:HD11	1.54	0.87
1:M:525:THR:CG2	1:N:440:ILE:HD11	2.04	0.87
1:C:456:VAL:HG21	1:C:518:PHE:CE1	2.08	0.87
1:D:285:ILE:HG12	1:D:296:LEU:CD2	2.04	0.87
1:I:456:VAL:HG21	1:I:518:PHE:CE1	2.09	0.87
1:J:285:ILE:HG12	1:J:296:LEU:CD2	2.04	0.87
1:L:176:ALA:HB1	1:L:205:ALA:CB	2.05	0.87
1:A:551:LYS:HB3	1:A:566:LYS:HG2	1.56	0.87
1:C:602:TYR:CD1	1:D:635:HIS:NE2	2.42	0.87
1:E:121:LEU:HD11	1:E:150:ARG:HB2	1.56	0.87
1:F:121:LEU:HD11	1:F:150:ARG:HB2	1.57	0.87
1:G:121:LEU:HD11	1:G:150:ARG:HB2	1.57	0.87
1:G:551:LYS:HB3	1:G:566:LYS:HG2	1.56	0.87
1:N:168:VAL:HG12	1:N:213:LEU:HG	1.54	0.87
1:N:602:TYR:CD1	1:O:635:HIS:NE2	2.42	0.87
1:O:121:LEU:HD11	1:O:150:ARG:HB2	1.57	0.87
1:O:444:ASP:CG	1:O:490:ILE:HD12	1.94	0.87
1:B:176:ALA:HB1	1:B:205:ALA:CB	2.05	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:365:GLY:HA2	1:D:399:THR:CG2	2.05	0.87
1:I:525:THR:CG2	1:J:440:ILE:HD11	2.04	0.87
1:J:602:TYR:CD1	1:K:635:HIS:NE2	2.43	0.87
1:K:262:SER:HB2	1:K:283:VAL:HG11	1.55	0.87
1:K:444:ASP:CG	1:K:490:ILE:HD12	1.94	0.87
1:K:456:VAL:HG21	1:K:518:PHE:CE1	2.09	0.87
1:L:285:ILE:HG12	1:L:296:LEU:CD2	2.04	0.87
1:O:551:LYS:HB3	1:O:566:LYS:HG2	1.56	0.87
1:A:365:GLY:HA2	1:A:399:THR:CG2	2.05	0.87
1:A:440:ILE:HD11	1:O:525:THR:CG2	2.03	0.87
1:C:365:GLY:HA2	1:C:399:THR:CG2	2.05	0.87
1:F:551:LYS:HB3	1:F:566:LYS:HG2	1.56	0.87
1:H:121:LEU:HD11	1:H:150:ARG:HB2	1.57	0.87
1:N:365:GLY:HA2	1:N:399:THR:CG2	2.05	0.87
1:N:444:ASP:CG	1:N:490:ILE:HD12	1.94	0.87
1:A:121:LEU:HD11	1:A:150:ARG:HB2	1.56	0.87
1:B:365:GLY:HA2	1:B:399:THR:CG2	2.05	0.87
1:E:365:GLY:HA2	1:E:399:THR:CG2	2.05	0.87
1:F:138:ILE:HG22	1:F:139:ILE:H	1.37	0.87
1:G:233:VAL:O	1:G:235:MET:HE1	1.75	0.87
1:K:138:ILE:HG22	1:K:139:ILE:H	1.37	0.87
1:L:121:LEU:HD11	1:L:150:ARG:HB2	1.56	0.87
1:L:365:GLY:HA2	1:L:399:THR:CG2	2.05	0.87
1:M:365:GLY:HA2	1:M:399:THR:CG2	2.05	0.87
1:N:176:ALA:HB1	1:N:205:ALA:CB	2.05	0.87
1:N:525:THR:CG2	1:O:440:ILE:HD11	2.04	0.87
1:A:444:ASP:CG	1:A:490:ILE:HD12	1.95	0.87
1:B:602:TYR:CD1	1:C:635:HIS:NE2	2.42	0.87
1:C:176:ALA:HB1	1:C:205:ALA:CB	2.05	0.87
1:D:121:LEU:HD11	1:D:150:ARG:HB2	1.57	0.87
1:D:456:VAL:HG21	1:D:518:PHE:CE1	2.09	0.87
1:I:138:ILE:HG22	1:I:139:ILE:H	1.38	0.87
1:O:365:GLY:HA2	1:O:399:THR:CG2	2.05	0.87
1:B:262:SER:HB2	1:B:283:VAL:HG11	1.55	0.86
1:C:157:ARG:HB3	1:D:140:LEU:HD11	1.55	0.86
1:C:262:SER:HB2	1:C:283:VAL:HG12	1.55	0.86
1:D:176:ALA:HB1	1:D:205:ALA:CB	2.05	0.86
1:E:176:ALA:HB1	1:E:205:ALA:CB	2.05	0.86
1:K:262:SER:HB2	1:K:283:VAL:HG12	1.55	0.86
1:M:262:SER:HB2	1:M:283:VAL:HG11	1.54	0.86
1:M:444:ASP:CG	1:M:490:ILE:HD12	1.94	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:121:LEU:HD11	1:N:150:ARG:HB2	1.57	0.86
1:B:157:ARG:HB3	1:C:140:LEU:HD11	1.54	0.86
1:D:551:LYS:HB3	1:D:566:LYS:HG2	1.56	0.86
1:E:456:VAL:HG21	1:E:518:PHE:CE1	2.09	0.86
1:F:285:ILE:HG12	1:F:296:LEU:CD2	2.04	0.86
1:H:157:ARG:HB3	1:I:140:LEU:HD11	1.55	0.86
1:K:176:ALA:HB1	1:K:205:ALA:CB	2.05	0.86
1:K:586:ILE:HG12	1:K:595:ILE:CD1	2.05	0.86
1:M:121:LEU:HD11	1:M:150:ARG:HB2	1.56	0.86
1:C:551:LYS:HB3	1:C:566:LYS:HG2	1.56	0.86
1:D:586:ILE:HG12	1:D:595:ILE:CD1	2.06	0.86
1:F:262:SER:HB2	1:F:283:VAL:HG12	1.55	0.86
1:K:365:GLY:HA2	1:K:399:THR:CG2	2.05	0.86
1:L:444:ASP:CG	1:L:490:ILE:HD12	1.94	0.86
1:N:262:SER:HB2	1:N:283:VAL:HG12	1.55	0.86
1:O:262:SER:HB2	1:O:283:VAL:HG11	1.55	0.86
1:E:586:ILE:HG12	1:E:595:ILE:CD1	2.06	0.86
1:I:262:SER:HB2	1:I:283:VAL:HG12	1.55	0.86
1:K:285:ILE:HG12	1:K:296:LEU:CD2	2.04	0.86
1:L:262:SER:HB2	1:L:283:VAL:HG12	1.55	0.86
1:L:586:ILE:HG12	1:L:595:ILE:CD1	2.06	0.86
1:M:138:ILE:HG22	1:M:139:ILE:H	1.37	0.86
1:C:233:VAL:O	1:C:235:MET:HE1	1.75	0.86
1:C:285:ILE:HG12	1:C:296:LEU:CD2	2.04	0.86
1:F:365:GLY:HA2	1:F:399:THR:CG2	2.05	0.86
1:J:157:ARG:HB3	1:K:140:LEU:HD11	1.54	0.86
1:J:176:ALA:HB1	1:J:205:ALA:CB	2.05	0.86
1:K:121:LEU:HD11	1:K:150:ARG:HB2	1.57	0.86
1:O:456:VAL:HG21	1:O:518:PHE:CE1	2.09	0.86
1:A:176:ALA:HB1	1:A:205:ALA:CB	2.05	0.86
1:A:586:ILE:HG12	1:A:595:ILE:CD1	2.06	0.86
1:B:551:LYS:HB3	1:B:566:LYS:HG2	1.56	0.86
1:E:551:LYS:HB3	1:E:566:LYS:HG2	1.56	0.86
1:F:602:TYR:CD1	1:G:635:HIS:NE2	2.43	0.86
1:F:176:ALA:HB1	1:F:205:ALA:CB	2.05	0.86
1:F:586:ILE:HG12	1:F:595:ILE:CD1	2.06	0.86
1:G:365:GLY:HA2	1:G:399:THR:CG2	2.05	0.86
1:H:176:ALA:HB1	1:H:205:ALA:CB	2.05	0.86
1:J:262:SER:HB2	1:J:283:VAL:HG12	1.55	0.86
1:M:586:ILE:HG12	1:M:595:ILE:CD1	2.05	0.86
1:N:262:SER:HB2	1:N:283:VAL:HG11	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:586:ILE:HG12	1:O:595:ILE:CD1	2.06	0.86
1:A:525:THR:CG2	1:B:440:ILE:HD11	2.03	0.86
1:I:262:SER:HB2	1:I:283:VAL:HG11	1.55	0.86
1:J:365:GLY:HA2	1:J:399:THR:CG2	2.05	0.86
1:J:586:ILE:HG12	1:J:595:ILE:CD1	2.06	0.86
1:K:233:VAL:O	1:K:235:MET:HE1	1.75	0.86
1:C:217:ASP:HB2	1:C:220:VAL:H	1.41	0.86
1:M:214:ILE:CD1	1:M:224:LEU:HD23	2.06	0.86
1:A:217:ASP:HB2	1:A:220:VAL:H	1.41	0.86
1:B:214:ILE:CD1	1:B:224:LEU:HD23	2.06	0.86
1:H:262:SER:HB2	1:H:283:VAL:HG12	1.56	0.86
1:I:176:ALA:HB1	1:I:205:ALA:CB	2.05	0.86
1:G:214:ILE:CD1	1:G:224:LEU:HD23	2.06	0.85
1:H:167:GLU:H	1:H:214:ILE:CG2	1.89	0.85
1:H:365:GLY:HA2	1:H:399:THR:CG2	2.05	0.85
1:I:217:ASP:HB2	1:I:220:VAL:H	1.41	0.85
1:N:233:VAL:O	1:N:235:MET:HE1	1.76	0.85
1:B:586:ILE:HG12	1:B:595:ILE:CD1	2.05	0.85
1:C:553:PRO:HG2	1:D:425:ALA:HB1	1.58	0.85
1:C:586:ILE:HG12	1:C:595:ILE:CD1	2.05	0.85
1:D:138:ILE:HG22	1:D:139:ILE:H	1.37	0.85
1:E:233:VAL:O	1:E:235:MET:HE1	1.76	0.85
1:I:365:GLY:HA2	1:I:399:THR:CG2	2.05	0.85
1:I:586:ILE:HG12	1:I:595:ILE:CD1	2.05	0.85
1:J:217:ASP:HB2	1:J:220:VAL:H	1.41	0.85
1:K:167:GLU:H	1:K:214:ILE:CG2	1.89	0.85
1:B:525:THR:CG2	1:C:440:ILE:HD11	2.04	0.85
1:M:262:SER:HB2	1:M:283:VAL:HG12	1.55	0.85
1:O:176:ALA:HB1	1:O:205:ALA:CB	2.05	0.85
1:E:167:GLU:H	1:E:214:ILE:CG2	1.90	0.85
1:E:262:SER:HB2	1:E:283:VAL:HG12	1.55	0.85
1:F:214:ILE:CD1	1:F:224:LEU:HD23	2.06	0.85
1:G:586:ILE:HG12	1:G:595:ILE:CD1	2.06	0.85
1:H:214:ILE:CD1	1:H:224:LEU:HD23	2.06	0.85
1:A:214:ILE:CD1	1:A:224:LEU:HD23	2.06	0.85
1:A:553:PRO:HG2	1:B:425:ALA:HB1	1.58	0.85
1:B:553:PRO:HG2	1:C:425:ALA:HB1	1.58	0.85
1:C:214:ILE:HD12	1:C:224:LEU:CD2	2.07	0.85
1:D:214:ILE:HD12	1:D:224:LEU:CD2	2.06	0.85
1:F:217:ASP:HB2	1:F:220:VAL:H	1.41	0.85
1:G:176:ALA:HB1	1:G:205:ALA:CB	2.05	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:596:THR:HG23	1:K:597:GLN:N	1.92	0.85
1:M:233:VAL:O	1:M:235:MET:HE1	1.76	0.85
1:G:262:SER:HB2	1:G:283:VAL:HG11	1.55	0.85
1:I:214:ILE:CD1	1:I:224:LEU:HD23	2.06	0.85
1:L:214:ILE:CD1	1:L:224:LEU:HD23	2.06	0.85
1:A:233:VAL:O	1:A:235:MET:HE1	1.76	0.85
1:A:642:PHE:CE2	1:O:612:GLU:HG3	2.11	0.85
1:E:217:ASP:HB2	1:E:220:VAL:H	1.41	0.85
1:G:167:GLU:H	1:G:214:ILE:CG2	1.90	0.85
1:H:214:ILE:HD12	1:H:224:LEU:CD2	2.07	0.85
1:J:262:SER:HB2	1:J:283:VAL:HG11	1.55	0.85
1:L:596:THR:HG23	1:L:597:GLN:N	1.92	0.85
1:N:217:ASP:HB2	1:N:220:VAL:H	1.41	0.85
1:N:586:ILE:HG12	1:N:595:ILE:CD1	2.06	0.85
1:A:425:ALA:HB1	1:O:553:PRO:HG2	1.58	0.85
1:D:167:GLU:H	1:D:214:ILE:CG2	1.90	0.85
1:D:262:SER:HB2	1:D:283:VAL:HG12	1.55	0.85
1:E:214:ILE:CD1	1:E:224:LEU:HD23	2.06	0.85
1:G:262:SER:HB2	1:G:283:VAL:HG12	1.55	0.85
1:H:217:ASP:HB2	1:H:220:VAL:H	1.41	0.85
1:B:167:GLU:H	1:B:214:ILE:CG2	1.90	0.85
1:H:586:ILE:HG12	1:H:595:ILE:CD1	2.06	0.85
1:I:214:ILE:HD12	1:I:224:LEU:CD2	2.07	0.85
1:J:167:GLU:H	1:J:214:ILE:CG2	1.90	0.85
1:C:121:LEU:CD2	1:C:151:LEU:HG	2.02	0.85
1:D:553:PRO:HG2	1:E:425:ALA:HB1	1.58	0.85
1:G:214:ILE:HD12	1:G:224:LEU:CD2	2.07	0.85
1:D:602:TYR:HD1	1:E:635:HIS:CE1	1.95	0.84
1:L:285:ILE:HG12	1:L:296:LEU:HD22	1.58	0.84
1:M:217:ASP:HB2	1:M:220:VAL:H	1.41	0.84
1:M:596:THR:HG23	1:M:597:GLN:N	1.92	0.84
1:M:612:GLU:HG3	1:N:642:PHE:CE2	2.12	0.84
1:N:167:GLU:H	1:N:214:ILE:CG2	1.90	0.84
1:N:596:THR:HG23	1:N:597:GLN:N	1.92	0.84
1:E:285:ILE:HG12	1:E:296:LEU:HD22	1.58	0.84
1:E:553:PRO:HG2	1:F:425:ALA:HB1	1.58	0.84
1:J:596:THR:HG23	1:J:597:GLN:N	1.92	0.84
1:K:285:ILE:HG12	1:K:296:LEU:HD22	1.59	0.84
1:L:233:VAL:O	1:L:235:MET:HE1	1.77	0.84
1:M:167:GLU:H	1:M:214:ILE:CG2	1.90	0.84
1:C:596:THR:HG23	1:C:597:GLN:N	1.92	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:214:ILE:CD1	1:D:224:LEU:HD23	2.06	0.84
1:E:612:GLU:HG3	1:F:642:PHE:CE2	2.13	0.84
1:J:285:ILE:HG12	1:J:296:LEU:HD22	1.58	0.84
1:O:217:ASP:HB2	1:O:220:VAL:H	1.41	0.84
1:A:167:GLU:H	1:A:214:ILE:CG2	1.90	0.84
1:F:233:VAL:O	1:F:235:MET:HE1	1.77	0.84
1:F:285:ILE:HG12	1:F:296:LEU:HD22	1.58	0.84
1:I:612:GLU:HG3	1:J:642:PHE:CE2	2.12	0.84
1:K:214:ILE:CD1	1:K:224:LEU:HD23	2.06	0.84
1:O:596:THR:HG23	1:O:597:GLN:N	1.92	0.84
1:C:167:GLU:H	1:C:214:ILE:CG2	1.90	0.84
1:D:285:ILE:HG12	1:D:296:LEU:HD22	1.58	0.84
1:D:596:THR:HG23	1:D:597:GLN:N	1.92	0.84
1:F:167:GLU:H	1:F:214:ILE:CG2	1.90	0.84
1:I:167:GLU:H	1:I:214:ILE:CG2	1.90	0.84
1:M:285:ILE:HG12	1:M:296:LEU:HD22	1.58	0.84
1:A:596:THR:HG23	1:A:597:GLN:N	1.92	0.84
1:B:596:THR:HG23	1:B:597:GLN:N	1.92	0.84
1:L:245:TYR:HD1	1:L:293:SER:HB3	1.43	0.84
1:M:245:TYR:HD1	1:M:293:SER:HB3	1.43	0.84
1:E:214:ILE:HD12	1:E:224:LEU:CD2	2.07	0.84
1:K:602:TYR:HD1	1:L:635:HIS:CE1	1.96	0.84
1:K:612:GLU:HG3	1:L:642:PHE:CE2	2.12	0.84
1:I:285:ILE:HG12	1:I:296:LEU:HD22	1.58	0.84
1:J:214:ILE:HD12	1:J:224:LEU:CD2	2.07	0.84
1:K:217:ASP:HB2	1:K:220:VAL:H	1.41	0.84
1:A:635:HIS:CE1	1:O:602:TYR:HD1	1.96	0.84
1:G:217:ASP:HB2	1:G:220:VAL:H	1.41	0.84
1:L:167:GLU:H	1:L:214:ILE:CG2	1.90	0.84
1:L:612:GLU:HG3	1:M:642:PHE:CE2	2.13	0.84
1:N:612:GLU:HG3	1:O:642:PHE:CE2	2.13	0.84
1:O:214:ILE:CD1	1:O:224:LEU:HD23	2.06	0.84
1:D:612:GLU:HG3	1:E:642:PHE:CE2	2.13	0.84
1:J:233:VAL:O	1:J:235:MET:HE1	1.78	0.84
1:J:245:TYR:HD1	1:J:293:SER:HB3	1.43	0.84
1:J:612:GLU:HG3	1:K:642:PHE:CE2	2.13	0.84
1:K:214:ILE:HD12	1:K:224:LEU:CD2	2.07	0.84
1:O:167:GLU:H	1:O:214:ILE:CG2	1.90	0.84
1:E:596:THR:HG23	1:E:597:GLN:N	1.92	0.83
1:F:214:ILE:HD12	1:F:224:LEU:CD2	2.07	0.83
1:F:612:GLU:HG3	1:G:642:PHE:CE2	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:553:PRO:HG2	1:I:425:ALA:HB1	1.58	0.83
1:K:245:TYR:HD1	1:K:293:SER:HB3	1.43	0.83
1:C:173:ASN:ND2	1:C:232:ASP:O	2.12	0.83
1:D:217:ASP:HB2	1:D:220:VAL:H	1.41	0.83
1:G:612:GLU:HG3	1:H:642:PHE:CE2	2.13	0.83
1:L:217:ASP:HB2	1:L:220:VAL:H	1.41	0.83
1:L:602:TYR:HD1	1:M:635:HIS:CE1	1.97	0.83
1:F:596:THR:HG23	1:F:597:GLN:N	1.92	0.83
1:G:553:PRO:HG2	1:H:425:ALA:HB1	1.58	0.83
1:G:596:THR:HG23	1:G:597:GLN:N	1.92	0.83
1:O:173:ASN:ND2	1:O:232:ASP:O	2.12	0.83
1:D:121:LEU:CD2	1:D:151:LEU:HG	2.02	0.83
1:G:245:TYR:HD1	1:G:293:SER:HB3	1.43	0.83
1:N:121:LEU:CD2	1:N:151:LEU:HG	2.02	0.83
1:N:553:PRO:HG2	1:O:425:ALA:HB1	1.59	0.83
1:G:285:ILE:HG12	1:G:296:LEU:HD22	1.58	0.83
1:H:233:VAL:O	1:H:235:MET:HE1	1.78	0.83
1:H:602:TYR:HD1	1:I:635:HIS:CE1	1.95	0.83
1:I:553:PRO:HG2	1:J:425:ALA:HB1	1.58	0.83
1:I:596:THR:HG23	1:I:597:GLN:N	1.93	0.83
1:A:245:TYR:HD1	1:A:293:SER:HB3	1.43	0.83
1:N:173:ASN:ND2	1:N:232:ASP:O	2.12	0.83
1:N:285:ILE:HG12	1:N:296:LEU:HD22	1.58	0.83
1:A:602:TYR:HD1	1:B:635:HIS:CE1	1.96	0.83
1:B:217:ASP:HB2	1:B:220:VAL:H	1.41	0.83
1:C:285:ILE:HG12	1:C:296:LEU:HD22	1.59	0.83
1:D:173:ASN:ND2	1:D:232:ASP:O	2.12	0.83
1:D:602:TYR:CD1	1:E:635:HIS:CE1	2.66	0.83
1:F:553:PRO:HG2	1:G:425:ALA:HB1	1.58	0.83
1:H:612:GLU:HG3	1:I:642:PHE:CE2	2.13	0.83
1:I:245:TYR:HD1	1:I:293:SER:HB3	1.43	0.83
1:L:553:PRO:HG2	1:M:425:ALA:HB1	1.58	0.83
1:M:553:PRO:HG2	1:N:425:ALA:HB1	1.59	0.83
1:A:173:ASN:ND2	1:A:232:ASP:O	2.12	0.83
1:O:245:TYR:HD1	1:O:293:SER:HB3	1.43	0.83
1:O:285:ILE:HG12	1:O:296:LEU:HD22	1.58	0.83
1:A:635:HIS:CE1	1:O:602:TYR:CD1	2.67	0.83
1:H:596:THR:HG23	1:H:597:GLN:N	1.92	0.83
1:J:214:ILE:CD1	1:J:224:LEU:HD23	2.06	0.83
1:B:612:GLU:HG3	1:C:642:PHE:CE2	2.13	0.82
1:H:602:TYR:CD1	1:I:635:HIS:CE1	2.67	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:245:TYR:HD1	1:N:293:SER:HB3	1.43	0.82
1:A:612:GLU:HG3	1:B:642:PHE:CE2	2.13	0.82
1:B:173:ASN:ND2	1:B:232:ASP:O	2.12	0.82
1:C:612:GLU:HG3	1:D:642:PHE:CE2	2.13	0.82
1:H:285:ILE:HG12	1:H:296:LEU:HD22	1.58	0.82
1:J:553:PRO:HG2	1:K:425:ALA:HB1	1.58	0.82
1:K:553:PRO:HG2	1:L:425:ALA:HB1	1.58	0.82
1:L:214:ILE:HD12	1:L:224:LEU:CD2	2.07	0.82
1:D:204:VAL:HG12	1:D:205:ALA:N	1.95	0.82
1:M:204:VAL:HG12	1:M:205:ALA:N	1.95	0.82
1:A:602:TYR:CD1	1:B:635:HIS:CE1	2.68	0.82
1:D:245:TYR:HD1	1:D:293:SER:HB3	1.43	0.82
1:E:121:LEU:CD2	1:E:151:LEU:HG	2.02	0.82
1:H:202:LYS:C	1:H:203:LEU:HD12	2.00	0.82
1:I:202:LYS:C	1:I:203:LEU:HD12	2.00	0.82
1:J:202:LYS:C	1:J:203:LEU:HD12	2.00	0.82
1:K:265:LEU:CD2	1:K:302:ILE:HG12	2.10	0.82
1:C:214:ILE:CD1	1:C:224:LEU:HD23	2.06	0.82
1:K:602:TYR:CD1	1:L:635:HIS:CE1	2.67	0.82
1:E:204:VAL:HG12	1:E:205:ALA:N	1.95	0.82
1:H:173:ASN:ND2	1:H:232:ASP:O	2.12	0.82
1:H:245:TYR:HD1	1:H:293:SER:HB3	1.43	0.82
1:L:204:VAL:HG12	1:L:205:ALA:N	1.95	0.82
1:N:204:VAL:HG12	1:N:205:ALA:N	1.95	0.82
1:A:265:LEU:CD2	1:A:302:ILE:HG12	2.10	0.82
1:B:202:LYS:C	1:B:203:LEU:HD12	2.00	0.82
1:C:204:VAL:HG12	1:C:205:ALA:N	1.95	0.82
1:C:265:LEU:CD2	1:C:302:ILE:HG12	2.10	0.82
1:F:204:VAL:HG12	1:F:205:ALA:N	1.95	0.82
1:G:602:TYR:HD1	1:H:635:HIS:CE1	1.97	0.82
1:K:202:LYS:C	1:K:203:LEU:HD12	2.00	0.82
1:M:173:ASN:ND2	1:M:232:ASP:O	2.12	0.82
1:A:285:ILE:HG12	1:A:296:LEU:HD22	1.58	0.82
1:B:285:ILE:HG12	1:B:296:LEU:HD22	1.58	0.82
1:F:173:ASN:ND2	1:F:232:ASP:O	2.11	0.82
1:I:233:VAL:O	1:I:235:MET:HE1	1.79	0.82
1:N:265:LEU:CD2	1:N:302:ILE:HG12	2.10	0.82
1:O:202:LYS:C	1:O:203:LEU:HD12	2.00	0.82
1:O:265:LEU:CD2	1:O:302:ILE:HG12	2.10	0.82
1:E:173:ASN:ND2	1:E:232:ASP:O	2.12	0.82
1:F:245:TYR:HD1	1:F:293:SER:HB3	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:173:ASN:ND2	1:G:232:ASP:O	2.12	0.82
1:G:202:LYS:C	1:G:203:LEU:HD12	2.00	0.82
1:M:231:LEU:HD11	1:N:213:LEU:HD21	1.61	0.82
1:B:265:LEU:CD2	1:B:302:ILE:HG12	2.10	0.82
1:C:245:TYR:HD1	1:C:293:SER:HB3	1.43	0.82
1:I:173:ASN:ND2	1:I:232:ASP:O	2.12	0.82
1:F:265:LEU:CD2	1:F:302:ILE:HG12	2.10	0.81
1:I:204:VAL:HG12	1:I:205:ALA:N	1.95	0.81
1:J:173:ASN:ND2	1:J:232:ASP:O	2.12	0.81
1:K:326:ILE:CD1	1:K:502:GLN:HE21	1.93	0.81
1:A:326:ILE:CD1	1:A:502:GLN:HE21	1.93	0.81
1:D:265:LEU:CD2	1:D:302:ILE:HG12	2.10	0.81
1:I:265:LEU:CD2	1:I:302:ILE:HG12	2.10	0.81
1:M:214:ILE:HD12	1:M:224:LEU:CD2	2.07	0.81
1:O:204:VAL:HG12	1:O:205:ALA:N	1.95	0.81
1:O:435:LEU:HD23	1:O:435:LEU:O	1.81	0.81
1:B:204:VAL:HG12	1:B:205:ALA:N	1.95	0.81
1:B:435:LEU:O	1:B:435:LEU:HD23	1.80	0.81
1:I:333:ASP:CG	1:K:618:MET:HE3	2.00	0.81
1:K:121:LEU:CD2	1:K:151:LEU:HG	2.02	0.81
1:L:202:LYS:C	1:L:203:LEU:HD12	2.00	0.81
1:L:602:TYR:CD1	1:M:635:HIS:CE1	2.68	0.81
1:O:214:ILE:HD12	1:O:224:LEU:CD2	2.07	0.81
1:A:202:LYS:C	1:A:203:LEU:HD12	2.00	0.81
1:D:202:LYS:C	1:D:203:LEU:HD12	2.00	0.81
1:E:245:TYR:HD1	1:E:293:SER:HB3	1.43	0.81
1:E:435:LEU:O	1:E:435:LEU:HD23	1.80	0.81
1:I:326:ILE:CD1	1:I:502:GLN:HE21	1.93	0.81
1:M:326:ILE:CD1	1:M:502:GLN:HE21	1.93	0.81
1:N:214:ILE:CD1	1:N:224:LEU:HD23	2.06	0.81
1:A:213:LEU:HD21	1:O:231:LEU:HD11	1.62	0.81
1:B:245:TYR:HD1	1:B:293:SER:HB3	1.43	0.81
1:F:121:LEU:CD2	1:F:151:LEU:HG	2.02	0.81
1:I:602:TYR:HD1	1:J:635:HIS:CE1	1.99	0.81
1:J:265:LEU:CD2	1:J:302:ILE:HG12	2.10	0.81
1:K:173:ASN:ND2	1:K:232:ASP:O	2.12	0.81
1:L:265:LEU:CD2	1:L:302:ILE:HG12	2.10	0.81
1:L:326:ILE:CD1	1:L:502:GLN:HE21	1.93	0.81
1:M:265:LEU:CD2	1:M:302:ILE:HG12	2.10	0.81
1:A:435:LEU:HD23	1:A:435:LEU:O	1.81	0.81
1:N:214:ILE:HD12	1:N:224:LEU:CD2	2.07	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:326:ILE:CD1	1:N:502:GLN:HE21	1.93	0.81
1:G:602:TYR:CD1	1:H:635:HIS:CE1	2.69	0.81
1:N:202:LYS:C	1:N:203:LEU:HD12	2.00	0.81
1:F:202:LYS:C	1:F:203:LEU:HD12	2.00	0.81
1:H:204:VAL:HG12	1:H:205:ALA:N	1.95	0.81
1:I:435:LEU:HD23	1:I:435:LEU:O	1.80	0.81
1:L:173:ASN:ND2	1:L:232:ASP:O	2.12	0.81
1:N:435:LEU:O	1:N:435:LEU:HD23	1.81	0.81
1:C:202:LYS:C	1:C:203:LEU:HD12	2.00	0.81
1:H:265:LEU:CD2	1:H:302:ILE:HG12	2.10	0.81
1:B:489:GLN:O	1:B:489:GLN:HG2	1.81	0.81
1:E:265:LEU:CD2	1:E:302:ILE:HG12	2.10	0.81
1:F:333:ASP:CG	1:H:618:MET:HE3	2.01	0.81
1:F:435:LEU:O	1:F:435:LEU:HD23	1.80	0.81
1:J:435:LEU:HD23	1:J:435:LEU:O	1.81	0.81
1:G:265:LEU:CD2	1:G:302:ILE:HG12	2.10	0.80
1:O:326:ILE:CD1	1:O:502:GLN:HE21	1.93	0.80
1:A:204:VAL:HG12	1:A:205:ALA:N	1.95	0.80
1:C:489:GLN:HG2	1:C:489:GLN:O	1.81	0.80
1:E:202:LYS:C	1:E:203:LEU:HD12	2.00	0.80
1:E:602:TYR:HD1	1:F:635:HIS:CE1	1.98	0.80
1:G:435:LEU:HD23	1:G:435:LEU:O	1.81	0.80
1:C:586:ILE:CG1	1:C:595:ILE:HD12	2.12	0.80
1:D:326:ILE:CD1	1:D:502:GLN:HE21	1.93	0.80
1:F:326:ILE:CD1	1:F:502:GLN:HE21	1.93	0.80
1:M:202:LYS:C	1:M:203:LEU:HD12	2.00	0.80
1:C:326:ILE:CD1	1:C:502:GLN:HE21	1.93	0.80
1:C:435:LEU:O	1:C:435:LEU:HD23	1.80	0.80
1:N:602:TYR:HD1	1:O:635:HIS:CE1	1.99	0.80
1:A:214:ILE:HD12	1:A:224:LEU:CD2	2.07	0.80
1:A:586:ILE:CG1	1:A:595:ILE:HD12	2.12	0.80
1:E:489:GLN:HG2	1:E:489:GLN:O	1.81	0.80
1:K:489:GLN:HG2	1:K:489:GLN:O	1.81	0.80
1:L:435:LEU:HD23	1:L:435:LEU:O	1.81	0.80
1:E:586:ILE:CG1	1:E:595:ILE:HD12	2.12	0.80
1:F:489:GLN:HG2	1:F:489:GLN:O	1.81	0.80
1:H:435:LEU:O	1:H:435:LEU:HD23	1.81	0.80
1:L:352:TYR:CD2	1:L:567:SER:HB2	2.17	0.80
1:A:489:GLN:O	1:A:489:GLN:HG2	1.80	0.80
1:B:214:ILE:HD12	1:B:224:LEU:CD2	2.07	0.80
1:E:326:ILE:CD1	1:E:502:GLN:HE21	1.93	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:489:GLN:O	1:I:489:GLN:HG2	1.81	0.80
1:J:204:VAL:HG12	1:J:205:ALA:N	1.95	0.80
1:J:352:TYR:CD2	1:J:567:SER:HB2	2.17	0.80
1:K:435:LEU:O	1:K:435:LEU:HD23	1.80	0.80
1:M:182:ILE:HB	1:N:204:VAL:HG11	1.64	0.80
1:N:231:LEU:HD11	1:O:213:LEU:HD21	1.63	0.80
1:O:121:LEU:CD2	1:O:151:LEU:HG	2.02	0.80
1:C:602:TYR:HD1	1:D:635:HIS:CE1	1.99	0.80
1:D:586:ILE:CG1	1:D:595:ILE:HD12	2.11	0.80
1:G:326:ILE:CD1	1:G:502:GLN:HE21	1.93	0.80
1:H:326:ILE:CD1	1:H:502:GLN:HE21	1.93	0.80
1:I:231:LEU:HD11	1:J:213:LEU:HD21	1.62	0.80
1:J:326:ILE:CD1	1:J:502:GLN:HE21	1.93	0.80
1:K:204:VAL:HG12	1:K:205:ALA:N	1.95	0.80
1:K:352:TYR:CD2	1:K:567:SER:HB2	2.17	0.80
1:O:640:GLN:O	1:O:643:ILE:HG22	1.82	0.80
1:F:586:ILE:CG1	1:F:595:ILE:HD12	2.12	0.80
1:G:121:LEU:CD2	1:G:151:LEU:HG	2.02	0.80
1:I:352:TYR:CD2	1:I:567:SER:HB2	2.17	0.80
1:M:121:LEU:CD2	1:M:151:LEU:HG	2.02	0.80
1:M:435:LEU:O	1:M:435:LEU:HD23	1.81	0.80
1:B:176:ALA:CB	1:B:205:ALA:HB3	2.12	0.80
1:B:640:GLN:O	1:B:643:ILE:HG22	1.82	0.80
1:G:352:TYR:CD2	1:G:567:SER:HB2	2.17	0.80
1:J:640:GLN:O	1:J:643:ILE:HG22	1.82	0.80
1:H:586:ILE:CG1	1:H:595:ILE:HD12	2.12	0.79
1:J:246:LEU:HD22	1:J:251:ALA:HB2	1.64	0.79
1:J:333:ASP:CG	1:L:618:MET:HE3	2.01	0.79
1:K:640:GLN:O	1:K:643:ILE:HG22	1.82	0.79
1:L:231:LEU:HD11	1:M:213:LEU:HD21	1.64	0.79
1:O:176:ALA:CB	1:O:205:ALA:HB3	2.12	0.79
1:D:640:GLN:O	1:D:643:ILE:HG22	1.82	0.79
1:E:333:ASP:CG	1:G:618:MET:HE3	2.01	0.79
1:L:121:LEU:CD2	1:L:151:LEU:HG	2.02	0.79
1:M:602:TYR:HD1	1:N:635:HIS:CE1	1.99	0.79
1:O:352:TYR:CD2	1:O:567:SER:HB2	2.17	0.79
1:E:602:TYR:CD1	1:F:635:HIS:CE1	2.70	0.79
1:K:231:LEU:HD11	1:L:213:LEU:HD21	1.63	0.79
1:M:352:TYR:CD2	1:M:567:SER:HB2	2.17	0.79
1:N:176:ALA:CB	1:N:205:ALA:HB3	2.12	0.79
1:N:352:TYR:CD2	1:N:567:SER:HB2	2.17	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:586:ILE:CG1	1:A:595:ILE:CD1	2.61	0.79
1:D:435:LEU:HD23	1:D:435:LEU:O	1.81	0.79
1:E:231:LEU:HD11	1:F:213:LEU:HD21	1.63	0.79
1:I:246:LEU:HD22	1:I:251:ALA:HB2	1.64	0.79
1:N:586:ILE:CG1	1:N:595:ILE:HD12	2.12	0.79
1:O:586:ILE:CG1	1:O:595:ILE:HD12	2.12	0.79
1:A:121:LEU:CD2	1:A:151:LEU:HG	2.02	0.79
1:B:326:ILE:CD1	1:B:502:GLN:HE21	1.93	0.79
1:B:586:ILE:CG1	1:B:595:ILE:CD1	2.61	0.79
1:C:176:ALA:CB	1:C:205:ALA:HB3	2.12	0.79
1:E:109:VAL:HG21	1:F:135:PRO:CD	2.12	0.79
1:F:179:MET:HE1	1:F:227:LEU:HB3	1.65	0.79
1:F:640:GLN:O	1:F:643:ILE:HG22	1.82	0.79
1:G:489:GLN:O	1:G:489:GLN:HG2	1.81	0.79
1:H:246:LEU:HD22	1:H:251:ALA:HB2	1.64	0.79
1:I:586:ILE:CG1	1:I:595:ILE:CD1	2.60	0.79
1:J:602:TYR:HD1	1:K:635:HIS:CE1	2.00	0.79
1:K:586:ILE:CG1	1:K:595:ILE:CD1	2.60	0.79
1:L:176:ALA:CB	1:L:205:ALA:HB3	2.12	0.79
1:O:586:ILE:CG1	1:O:595:ILE:CD1	2.60	0.79
1:C:333:ASP:CG	1:E:618:MET:HE3	2.01	0.79
1:D:176:ALA:CB	1:D:205:ALA:HB3	2.12	0.79
1:D:586:ILE:CG1	1:D:595:ILE:CD1	2.60	0.79
1:E:176:ALA:CB	1:E:205:ALA:HB3	2.12	0.79
1:F:352:TYR:CD2	1:F:567:SER:HB2	2.17	0.79
1:G:204:VAL:HG12	1:G:205:ALA:N	1.95	0.79
1:J:586:ILE:CG1	1:J:595:ILE:HD12	2.12	0.79
1:K:246:LEU:HD22	1:K:251:ALA:HB2	1.64	0.79
1:M:640:GLN:O	1:M:643:ILE:HG22	1.82	0.79
1:A:176:ALA:CB	1:A:205:ALA:HB3	2.12	0.79
1:C:352:TYR:CD2	1:C:567:SER:HB2	2.17	0.79
1:E:586:ILE:CG1	1:E:595:ILE:CD1	2.61	0.79
1:G:246:LEU:HD22	1:G:251:ALA:HB2	1.64	0.79
1:G:586:ILE:CG1	1:G:595:ILE:HD12	2.12	0.79
1:H:333:ASP:CG	1:J:618:MET:HE3	2.02	0.79
1:H:586:ILE:CG1	1:H:595:ILE:CD1	2.61	0.79
1:I:586:ILE:CG1	1:I:595:ILE:HD12	2.12	0.79
1:J:586:ILE:CG1	1:J:595:ILE:CD1	2.61	0.79
1:M:489:GLN:HG2	1:M:489:GLN:O	1.81	0.79
1:B:586:ILE:CG1	1:B:595:ILE:HD12	2.12	0.79
1:G:231:LEU:HD11	1:H:213:LEU:HD21	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:640:GLN:O	1:G:643:ILE:HG22	1.82	0.79
1:K:176:ALA:CB	1:K:205:ALA:HB3	2.12	0.79
1:L:246:LEU:HD22	1:L:251:ALA:HB2	1.64	0.79
1:D:333:ASP:CG	1:F:618:MET:HE3	2.03	0.79
1:D:352:TYR:CD2	1:D:567:SER:HB2	2.17	0.79
1:E:640:GLN:O	1:E:643:ILE:HG22	1.83	0.79
1:J:231:LEU:HD11	1:K:213:LEU:HD21	1.64	0.79
1:L:489:GLN:O	1:L:489:GLN:HG2	1.81	0.79
1:B:121:LEU:CD2	1:B:151:LEU:HG	2.02	0.79
1:D:489:GLN:O	1:D:489:GLN:HG2	1.81	0.79
1:E:182:ILE:HB	1:F:204:VAL:HG11	1.64	0.79
1:G:586:ILE:CG1	1:G:595:ILE:CD1	2.61	0.79
1:H:109:VAL:HG21	1:I:135:PRO:CD	2.13	0.79
1:H:176:ALA:CB	1:H:205:ALA:HB3	2.12	0.79
1:H:352:TYR:CD2	1:H:567:SER:HB2	2.17	0.79
1:I:640:GLN:O	1:I:643:ILE:HG22	1.83	0.79
1:L:586:ILE:CG1	1:L:595:ILE:CD1	2.61	0.79
1:L:640:GLN:O	1:L:643:ILE:HG22	1.83	0.79
1:M:109:VAL:HG21	1:N:135:PRO:CD	2.12	0.79
1:M:586:ILE:CG1	1:M:595:ILE:HD12	2.12	0.79
1:C:640:GLN:O	1:C:643:ILE:HG22	1.82	0.78
1:D:182:ILE:HB	1:E:204:VAL:HG11	1.65	0.78
1:D:322:ILE:HD11	1:D:498:LEU:HD21	1.65	0.78
1:E:322:ILE:HD11	1:E:498:LEU:HD21	1.65	0.78
1:F:231:LEU:HD11	1:G:213:LEU:HD21	1.63	0.78
1:G:108:ASN:HB3	1:G:162:GLY:O	1.84	0.78
1:A:182:ILE:HB	1:B:204:VAL:HG11	1.66	0.78
1:E:179:MET:HE1	1:E:227:LEU:HB3	1.65	0.78
1:F:108:ASN:HB3	1:F:162:GLY:O	1.84	0.78
1:J:167:GLU:N	1:J:214:ILE:HG22	1.98	0.78
1:K:586:ILE:CG1	1:K:595:ILE:HD12	2.12	0.78
1:L:182:ILE:HB	1:M:204:VAL:HG11	1.65	0.78
1:L:586:ILE:CG1	1:L:595:ILE:HD12	2.12	0.78
1:M:352:TYR:OH	1:M:565:PHE:O	2.01	0.78
1:N:489:GLN:HG2	1:N:489:GLN:O	1.81	0.78
1:A:246:LEU:HD22	1:A:251:ALA:HB2	1.64	0.78
1:A:352:TYR:CD2	1:A:567:SER:HB2	2.17	0.78
1:B:246:LEU:HD22	1:B:251:ALA:HB2	1.64	0.78
1:B:352:TYR:CD2	1:B:567:SER:HB2	2.17	0.78
1:B:352:TYR:OH	1:B:565:PHE:O	2.01	0.78
1:D:231:LEU:HD11	1:E:213:LEU:HD21	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:586:ILE:CG1	1:F:595:ILE:CD1	2.61	0.78
1:G:352:TYR:OH	1:G:565:PHE:O	2.01	0.78
1:J:109:VAL:HG21	1:K:135:PRO:CD	2.13	0.78
1:L:352:TYR:OH	1:L:565:PHE:O	2.02	0.78
1:M:108:ASN:HB3	1:M:162:GLY:O	1.84	0.78
1:M:586:ILE:CG1	1:M:595:ILE:CD1	2.60	0.78
1:B:182:ILE:HB	1:C:204:VAL:HG11	1.66	0.78
1:B:602:TYR:HD1	1:C:635:HIS:CE1	2.01	0.78
1:C:108:ASN:HB3	1:C:162:GLY:O	1.84	0.78
1:D:108:ASN:HB3	1:D:162:GLY:O	1.84	0.78
1:E:108:ASN:HB3	1:E:162:GLY:O	1.84	0.78
1:E:246:LEU:HD22	1:E:251:ALA:HB2	1.64	0.78
1:H:352:TYR:OH	1:H:565:PHE:O	2.01	0.78
1:J:108:ASN:HB3	1:J:162:GLY:O	1.84	0.78
1:N:586:ILE:CG1	1:N:595:ILE:CD1	2.61	0.78
1:C:352:TYR:OH	1:C:565:PHE:O	2.02	0.78
1:C:586:ILE:CG1	1:C:595:ILE:CD1	2.61	0.78
1:C:602:TYR:CD1	1:D:635:HIS:CE1	2.71	0.78
1:H:108:ASN:HB3	1:H:162:GLY:O	1.84	0.78
1:I:167:GLU:N	1:I:214:ILE:HG22	1.99	0.78
1:K:109:VAL:HG21	1:L:135:PRO:CD	2.13	0.78
1:N:108:ASN:HB3	1:N:162:GLY:O	1.83	0.78
1:C:322:ILE:HD11	1:C:498:LEU:HD21	1.65	0.78
1:B:231:LEU:HD11	1:C:213:LEU:HD21	1.64	0.78
1:D:352:TYR:OH	1:D:565:PHE:O	2.02	0.78
1:G:176:ALA:CB	1:G:205:ALA:HB3	2.12	0.78
1:K:182:ILE:HB	1:L:204:VAL:HG11	1.65	0.78
1:N:182:ILE:HB	1:O:204:VAL:HG11	1.66	0.78
1:A:231:LEU:HD11	1:B:213:LEU:HD21	1.65	0.78
1:A:352:TYR:OH	1:A:565:PHE:O	2.01	0.78
1:B:167:GLU:N	1:B:214:ILE:HG22	1.99	0.78
1:F:176:ALA:CB	1:F:205:ALA:HB3	2.12	0.78
1:J:176:ALA:CB	1:J:205:ALA:HB3	2.12	0.78
1:J:179:MET:HE1	1:J:227:LEU:HB3	1.65	0.78
1:J:489:GLN:O	1:J:489:GLN:HG2	1.81	0.78
1:K:167:GLU:N	1:K:214:ILE:HG22	1.99	0.78
1:B:108:ASN:HB3	1:B:162:GLY:O	1.84	0.78
1:C:167:GLU:N	1:C:214:ILE:HG22	1.99	0.78
1:C:246:LEU:HD22	1:C:251:ALA:HB2	1.64	0.78
1:H:167:GLU:N	1:H:214:ILE:HG22	1.99	0.78
1:H:489:GLN:HG2	1:H:489:GLN:O	1.81	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:352:TYR:OH	1:K:565:PHE:O	2.02	0.78
1:D:109:VAL:HG21	1:E:135:PRO:CD	2.13	0.78
1:E:352:TYR:CD2	1:E:567:SER:HB2	2.17	0.78
1:F:109:VAL:HG21	1:G:135:PRO:CD	2.13	0.78
1:F:322:ILE:HD11	1:F:498:LEU:HD21	1.65	0.78
1:H:121:LEU:CD2	1:H:151:LEU:HG	2.02	0.78
1:I:108:ASN:HB3	1:I:162:GLY:O	1.84	0.78
1:I:602:TYR:CD1	1:J:635:HIS:CE1	2.71	0.78
1:J:121:LEU:CD2	1:J:151:LEU:HG	2.02	0.78
1:L:108:ASN:HB3	1:L:162:GLY:O	1.84	0.78
1:L:179:MET:HE1	1:L:227:LEU:HB3	1.66	0.78
1:M:179:MET:HE1	1:M:227:LEU:HB3	1.65	0.78
1:O:489:GLN:O	1:O:489:GLN:HG2	1.81	0.78
1:B:618:MET:HE3	1:O:333:ASP:CG	2.03	0.77
1:F:246:LEU:HD22	1:F:251:ALA:HB2	1.65	0.77
1:H:640:GLN:O	1:H:643:ILE:HG22	1.82	0.77
1:I:176:ALA:CB	1:I:205:ALA:HB3	2.13	0.77
1:L:333:ASP:CG	1:N:618:MET:HE3	2.04	0.77
1:M:176:ALA:CB	1:M:205:ALA:HB3	2.13	0.77
1:M:602:TYR:CD1	1:N:635:HIS:CE1	2.72	0.77
1:A:640:GLN:O	1:A:643:ILE:HG22	1.83	0.77
1:D:167:GLU:N	1:D:214:ILE:HG22	1.99	0.77
1:I:322:ILE:HD11	1:I:498:LEU:HD21	1.65	0.77
1:I:552:VAL:CG2	1:I:565:PHE:HB3	2.15	0.77
1:N:640:GLN:O	1:N:643:ILE:HG22	1.82	0.77
1:O:246:LEU:HD22	1:O:251:ALA:HB2	1.64	0.77
1:A:204:VAL:HG11	1:O:182:ILE:HB	1.67	0.77
1:B:340:GLN:NE2	1:B:355:THR:OG1	2.18	0.77
1:H:322:ILE:HD11	1:H:498:LEU:HD21	1.65	0.77
1:I:352:TYR:OH	1:I:565:PHE:O	2.02	0.77
1:J:322:ILE:HD11	1:J:498:LEU:HD21	1.65	0.77
1:K:108:ASN:HB3	1:K:162:GLY:O	1.84	0.77
1:M:246:LEU:HD22	1:M:251:ALA:HB2	1.65	0.77
1:N:352:TYR:OH	1:N:565:PHE:O	2.02	0.77
1:A:167:GLU:N	1:A:214:ILE:HG22	1.99	0.77
1:E:352:TYR:OH	1:E:565:PHE:O	2.01	0.77
1:G:167:GLU:N	1:G:214:ILE:HG22	1.99	0.77
1:H:231:LEU:HD11	1:I:213:LEU:HD21	1.65	0.77
1:J:340:GLN:NE2	1:J:355:THR:OG1	2.18	0.77
1:L:129:ASN:HA	1:L:142:THR:O	1.85	0.77
1:N:602:TYR:CD1	1:O:635:HIS:CE1	2.72	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:182:ILE:HB	1:D:204:VAL:HG11	1.66	0.77
1:C:231:LEU:HD11	1:D:213:LEU:HD21	1.65	0.77
1:D:246:LEU:HD22	1:D:251:ALA:HB2	1.64	0.77
1:F:182:ILE:HB	1:G:204:VAL:HG11	1.65	0.77
1:F:602:TYR:HD1	1:G:635:HIS:CE1	2.01	0.77
1:M:129:ASN:HA	1:M:142:THR:O	1.85	0.77
1:A:108:ASN:HB3	1:A:162:GLY:O	1.84	0.77
1:C:340:GLN:NE2	1:C:355:THR:OG1	2.18	0.77
1:I:340:GLN:NE2	1:I:355:THR:OG1	2.18	0.77
1:K:129:ASN:HA	1:K:142:THR:O	1.85	0.77
1:A:340:GLN:NE2	1:A:355:THR:OG1	2.18	0.77
1:B:322:ILE:HD11	1:B:498:LEU:HD21	1.65	0.77
1:C:139:ILE:HD13	1:C:155:ILE:HG23	1.67	0.77
1:E:139:ILE:HD13	1:E:155:ILE:HG23	1.67	0.77
1:F:340:GLN:NE2	1:F:355:THR:OG1	2.18	0.77
1:J:552:VAL:CG2	1:J:565:PHE:HB3	2.15	0.77
1:K:340:GLN:NE2	1:K:355:THR:OG1	2.18	0.77
1:K:523:LEU:CD2	1:K:538:GLY:HA3	2.15	0.77
1:N:246:LEU:HD22	1:N:251:ALA:HB2	1.64	0.77
1:D:129:ASN:HA	1:D:142:THR:O	1.85	0.77
1:E:129:ASN:HA	1:E:142:THR:O	1.85	0.77
1:G:552:VAL:CG2	1:G:565:PHE:HB3	2.15	0.77
1:L:167:GLU:N	1:L:214:ILE:HG22	1.99	0.77
1:M:322:ILE:HD11	1:M:498:LEU:HD21	1.65	0.77
1:D:523:LEU:CD2	1:D:538:GLY:HA3	2.15	0.77
1:E:167:GLU:N	1:E:214:ILE:HG22	1.99	0.77
1:H:552:VAL:CG2	1:H:565:PHE:HB3	2.15	0.77
1:I:182:ILE:HB	1:J:204:VAL:HG11	1.65	0.77
1:K:322:ILE:HD11	1:K:498:LEU:HD21	1.65	0.77
1:M:552:VAL:CG2	1:M:565:PHE:HB3	2.15	0.77
1:N:129:ASN:HA	1:N:142:THR:O	1.85	0.77
1:O:340:GLN:NE2	1:O:355:THR:OG1	2.18	0.77
1:B:333:ASP:CG	1:D:618:MET:HE3	2.03	0.77
1:B:451:ILE:CD1	1:B:479:GLU:HB3	2.15	0.77
1:L:523:LEU:CD2	1:L:538:GLY:HA3	2.15	0.77
1:N:133:TYR:CD1	1:N:133:TYR:O	2.38	0.77
1:O:108:ASN:HB3	1:O:162:GLY:O	1.83	0.77
1:O:167:GLU:N	1:O:214:ILE:HG22	1.99	0.77
1:C:129:ASN:HA	1:C:142:THR:O	1.85	0.76
1:E:340:GLN:NE2	1:E:355:THR:OG1	2.18	0.76
1:H:182:ILE:HB	1:I:204:VAL:HG11	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:552:VAL:CG2	1:K:565:PHE:HB3	2.15	0.76
1:L:340:GLN:NE2	1:L:355:THR:OG1	2.18	0.76
1:A:139:ILE:HD13	1:A:155:ILE:HG23	1.67	0.76
1:C:106:VAL:CG2	1:C:158:VAL:HG13	2.15	0.76
1:E:552:VAL:CG2	1:E:565:PHE:HB3	2.15	0.76
1:F:343:ASN:HB2	1:F:419:TRP:CD2	2.21	0.76
1:G:182:ILE:HB	1:H:204:VAL:HG11	1.65	0.76
1:I:451:ILE:CD1	1:I:479:GLU:HB3	2.16	0.76
1:J:182:ILE:HB	1:K:204:VAL:HG11	1.66	0.76
1:O:523:LEU:CD2	1:O:538:GLY:HA3	2.15	0.76
1:O:552:VAL:CG2	1:O:565:PHE:HB3	2.15	0.76
1:B:109:VAL:HG21	1:C:135:PRO:CD	2.13	0.76
1:B:133:TYR:O	1:B:133:TYR:CD1	2.39	0.76
1:B:602:TYR:CD1	1:C:635:HIS:CE1	2.74	0.76
1:C:133:TYR:CD1	1:C:133:TYR:O	2.38	0.76
1:C:451:ILE:CD1	1:C:479:GLU:HB3	2.16	0.76
1:E:343:ASN:HB2	1:E:419:TRP:CD2	2.21	0.76
1:F:326:ILE:HD11	1:F:502:GLN:NE2	2.00	0.76
1:F:552:VAL:CG2	1:F:565:PHE:HB3	2.15	0.76
1:G:322:ILE:HD11	1:G:498:LEU:HD21	1.65	0.76
1:H:340:GLN:NE2	1:H:355:THR:OG1	2.18	0.76
1:L:106:VAL:CG2	1:L:158:VAL:HG13	2.15	0.76
1:L:451:ILE:CD1	1:L:479:GLU:HB3	2.16	0.76
1:O:352:TYR:OH	1:O:565:PHE:O	2.01	0.76
1:A:109:VAL:HG21	1:B:135:PRO:CD	2.13	0.76
1:A:133:TYR:O	1:A:133:TYR:CD1	2.39	0.76
1:D:451:ILE:CD1	1:D:479:GLU:HB3	2.16	0.76
1:F:129:ASN:HA	1:F:142:THR:O	1.85	0.76
1:F:167:GLU:N	1:F:214:ILE:HG22	1.99	0.76
1:G:326:ILE:HD11	1:G:502:GLN:NE2	2.00	0.76
1:G:343:ASN:HB2	1:G:419:TRP:CD2	2.21	0.76
1:I:109:VAL:HG21	1:J:135:PRO:CD	2.13	0.76
1:J:106:VAL:CG2	1:J:158:VAL:HG13	2.15	0.76
1:J:129:ASN:HA	1:J:142:THR:O	1.85	0.76
1:J:352:TYR:OH	1:J:565:PHE:O	2.01	0.76
1:K:343:ASN:HB2	1:K:419:TRP:CD2	2.21	0.76
1:L:343:ASN:HB2	1:L:419:TRP:CD2	2.21	0.76
1:M:133:TYR:O	1:M:133:TYR:CD1	2.38	0.76
1:N:109:VAL:HG21	1:O:135:PRO:CD	2.13	0.76
1:N:552:VAL:CG2	1:N:565:PHE:HB3	2.15	0.76
1:A:451:ILE:CD1	1:A:479:GLU:HB3	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:343:ASN:HB2	1:D:419:TRP:CD2	2.21	0.76
1:E:451:ILE:CD1	1:E:479:GLU:HB3	2.16	0.76
1:G:129:ASN:HA	1:G:142:THR:O	1.85	0.76
1:G:133:TYR:O	1:G:133:TYR:CD1	2.38	0.76
1:G:139:ILE:HD13	1:G:155:ILE:HG23	1.67	0.76
1:G:340:GLN:NE2	1:G:355:THR:OG1	2.18	0.76
1:K:179:MET:HE1	1:K:227:LEU:HB3	1.66	0.76
1:N:167:GLU:N	1:N:214:ILE:HG22	1.99	0.76
1:N:340:GLN:NE2	1:N:355:THR:OG1	2.18	0.76
1:O:133:TYR:O	1:O:133:TYR:CD1	2.39	0.76
1:A:552:VAL:CG2	1:A:565:PHE:HB3	2.15	0.76
1:C:109:VAL:HG21	1:D:135:PRO:CD	2.13	0.76
1:C:343:ASN:HB2	1:C:419:TRP:CD2	2.21	0.76
1:G:596:THR:CG2	1:G:597:GLN:H	1.99	0.76
1:I:121:LEU:CD2	1:I:151:LEU:HG	2.02	0.76
1:K:596:THR:CG2	1:K:597:GLN:H	1.99	0.76
1:O:179:MET:HE1	1:O:227:LEU:HB3	1.65	0.76
1:O:596:THR:CG2	1:O:597:GLN:H	1.99	0.76
1:F:106:VAL:CG2	1:F:158:VAL:HG13	2.15	0.76
1:H:343:ASN:HB2	1:H:419:TRP:CD2	2.21	0.76
1:L:322:ILE:HD11	1:L:498:LEU:HD21	1.66	0.76
1:M:167:GLU:N	1:M:214:ILE:HG22	1.99	0.76
1:M:340:GLN:NE2	1:M:355:THR:OG1	2.18	0.76
1:N:139:ILE:HD13	1:N:155:ILE:HG23	1.67	0.76
1:N:322:ILE:HD11	1:N:498:LEU:HD21	1.65	0.76
1:O:322:ILE:HD11	1:O:498:LEU:HD21	1.65	0.76
1:B:129:ASN:HA	1:B:142:THR:O	1.85	0.76
1:D:133:TYR:O	1:D:133:TYR:CD1	2.39	0.76
1:E:523:LEU:CD2	1:E:538:GLY:HA3	2.16	0.76
1:H:106:VAL:CG2	1:H:158:VAL:HG13	2.15	0.76
1:I:343:ASN:HB2	1:I:419:TRP:CD2	2.21	0.76
1:J:602:TYR:CD1	1:K:635:HIS:CE1	2.73	0.76
1:N:451:ILE:CD1	1:N:479:GLU:HB3	2.16	0.76
1:A:322:ILE:HD11	1:A:498:LEU:HD21	1.65	0.76
1:B:343:ASN:HB2	1:B:419:TRP:CD2	2.21	0.76
1:C:596:THR:CG2	1:C:597:GLN:H	1.99	0.76
1:D:340:GLN:NE2	1:D:355:THR:OG1	2.18	0.76
1:D:552:VAL:CG2	1:D:565:PHE:HB3	2.15	0.76
1:E:106:VAL:CG2	1:E:158:VAL:HG13	2.15	0.76
1:F:602:TYR:CD1	1:G:635:HIS:CE1	2.74	0.76
1:H:322:ILE:HG13	1:H:486:VAL:HG21	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:523:LEU:CD2	1:I:538:GLY:HA3	2.16	0.76
1:K:451:ILE:CD1	1:K:479:GLU:HB3	2.16	0.76
1:L:552:VAL:CG2	1:L:565:PHE:HB3	2.16	0.76
1:A:343:ASN:HB2	1:A:419:TRP:CD2	2.21	0.76
1:B:523:LEU:CD2	1:B:538:GLY:HA3	2.16	0.76
1:E:133:TYR:O	1:E:133:TYR:CD1	2.39	0.76
1:F:133:TYR:CD1	1:F:133:TYR:O	2.38	0.76
1:F:352:TYR:OH	1:F:565:PHE:O	2.01	0.76
1:I:596:THR:CG2	1:I:597:GLN:H	1.99	0.76
1:M:523:LEU:CD2	1:M:538:GLY:HA3	2.16	0.76
1:N:596:THR:CG2	1:N:597:GLN:H	1.99	0.76
1:A:523:LEU:CD2	1:A:538:GLY:HA3	2.15	0.75
1:B:139:ILE:HD13	1:B:155:ILE:HG23	1.67	0.75
1:B:552:VAL:CG2	1:B:565:PHE:HB3	2.15	0.75
1:C:523:LEU:CD2	1:C:538:GLY:HA3	2.16	0.75
1:F:596:THR:CG2	1:F:597:GLN:H	1.99	0.75
1:H:129:ASN:HA	1:H:142:THR:O	1.85	0.75
1:H:326:ILE:HD11	1:H:502:GLN:NE2	2.00	0.75
1:H:451:ILE:CD1	1:H:479:GLU:HB3	2.15	0.75
1:H:523:LEU:CD2	1:H:538:GLY:HA3	2.15	0.75
1:L:133:TYR:O	1:L:133:TYR:CD1	2.39	0.75
1:O:129:ASN:HA	1:O:142:THR:O	1.85	0.75
1:I:133:TYR:O	1:I:133:TYR:CD1	2.39	0.75
1:I:179:MET:HE1	1:I:227:LEU:HB3	1.67	0.75
1:I:322:ILE:HG13	1:I:486:VAL:HG21	1.69	0.75
1:I:586:ILE:HD11	1:I:595:ILE:HD13	1.68	0.75
1:J:133:TYR:O	1:J:133:TYR:CD1	2.38	0.75
1:J:343:ASN:HB2	1:J:419:TRP:CD2	2.21	0.75
1:L:525:THR:HG21	1:M:440:ILE:CD1	2.15	0.75
1:L:596:THR:CG2	1:L:597:GLN:H	1.99	0.75
1:F:451:ILE:CD1	1:F:479:GLU:HB3	2.16	0.75
1:J:322:ILE:HG13	1:J:486:VAL:HG21	1.68	0.75
1:J:451:ILE:CD1	1:J:479:GLU:HB3	2.16	0.75
1:J:523:LEU:CD2	1:J:538:GLY:HA3	2.16	0.75
1:K:133:TYR:CD1	1:K:133:TYR:O	2.39	0.75
1:O:322:ILE:HG13	1:O:486:VAL:HG21	1.68	0.75
1:O:451:ILE:CD1	1:O:479:GLU:HB3	2.16	0.75
1:A:593:ASP:O	1:A:597:GLN:HB2	1.87	0.75
1:C:552:VAL:CG2	1:C:565:PHE:HB3	2.15	0.75
1:D:596:THR:CG2	1:D:597:GLN:H	1.99	0.75
1:G:523:LEU:CD2	1:G:538:GLY:HA3	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:586:ILE:HD11	1:H:595:ILE:HD13	1.68	0.75
1:M:343:ASN:HB2	1:M:419:TRP:CD2	2.21	0.75
1:A:129:ASN:HA	1:A:142:THR:O	1.85	0.75
1:D:139:ILE:HD13	1:D:155:ILE:HG23	1.67	0.75
1:E:596:THR:CG2	1:E:597:GLN:H	1.99	0.75
1:F:523:LEU:CD2	1:F:538:GLY:HA3	2.16	0.75
1:G:322:ILE:HG13	1:G:486:VAL:HG21	1.68	0.75
1:H:179:MET:HE1	1:H:227:LEU:HB3	1.69	0.75
1:I:326:ILE:HD11	1:I:502:GLN:NE2	2.00	0.75
1:J:169:VAL:O	1:J:212:ILE:N	2.20	0.75
1:L:109:VAL:HG21	1:M:135:PRO:CD	2.13	0.75
1:M:369:ALA:HB1	1:M:397:TYR:HD1	1.52	0.75
1:N:169:VAL:O	1:N:212:ILE:N	2.20	0.75
1:N:343:ASN:HB2	1:N:419:TRP:CD2	2.21	0.75
1:O:326:ILE:HD11	1:O:502:GLN:NE2	2.00	0.75
1:O:343:ASN:HB2	1:O:419:TRP:CD2	2.21	0.75
1:A:135:PRO:CD	1:O:109:VAL:HG21	2.15	0.75
1:A:596:THR:CG2	1:A:597:GLN:H	1.99	0.75
1:B:593:ASP:O	1:B:597:GLN:HB2	1.87	0.75
1:N:322:ILE:HG13	1:N:486:VAL:HG21	1.68	0.75
1:A:179:MET:HE1	1:A:227:LEU:HB3	1.68	0.75
1:A:440:ILE:CD1	1:O:525:THR:HG21	2.15	0.75
1:B:179:MET:HE1	1:B:227:LEU:HB3	1.67	0.75
1:C:179:MET:HE1	1:C:227:LEU:HB3	1.67	0.75
1:C:206:ASP:HB3	1:C:209:THR:HG22	1.69	0.75
1:D:417:GLY:O	1:D:418:ASP:HB3	1.87	0.75
1:G:586:ILE:HD11	1:G:595:ILE:HD13	1.69	0.75
1:I:129:ASN:HA	1:I:142:THR:O	1.85	0.75
1:I:139:ILE:HD13	1:I:155:ILE:HG23	1.67	0.75
1:J:593:ASP:O	1:J:597:GLN:HB2	1.87	0.75
1:L:417:GLY:O	1:L:418:ASP:HB3	1.87	0.75
1:M:169:VAL:O	1:M:212:ILE:N	2.20	0.75
1:M:333:ASP:OD2	1:O:618:MET:HE3	1.87	0.75
1:B:596:THR:CG2	1:B:597:GLN:H	1.99	0.75
1:E:417:GLY:O	1:E:418:ASP:HB3	1.87	0.75
1:G:206:ASP:HB3	1:G:209:THR:HG22	1.69	0.75
1:G:417:GLY:O	1:G:418:ASP:HB3	1.87	0.75
1:G:596:THR:CG2	1:G:597:GLN:N	2.50	0.75
1:H:133:TYR:CD1	1:H:133:TYR:O	2.39	0.75
1:I:169:VAL:O	1:I:212:ILE:N	2.20	0.75
1:I:417:GLY:O	1:I:418:ASP:HB3	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:596:THR:CG2	1:I:597:GLN:N	2.50	0.75
1:J:596:THR:CG2	1:J:597:GLN:H	1.99	0.75
1:K:322:ILE:HG13	1:K:486:VAL:HG21	1.68	0.75
1:K:593:ASP:O	1:K:597:GLN:HB2	1.87	0.75
1:K:596:THR:CG2	1:K:597:GLN:N	2.50	0.75
1:M:245:TYR:CD1	1:M:293:SER:HB3	2.22	0.75
1:M:322:ILE:HG13	1:M:486:VAL:HG21	1.68	0.75
1:N:326:ILE:HD11	1:N:502:GLN:NE2	2.00	0.75
1:O:417:GLY:O	1:O:418:ASP:HB3	1.87	0.75
1:O:593:ASP:O	1:O:597:GLN:HB2	1.87	0.75
1:A:523:LEU:HD11	1:B:440:ILE:HD11	1.67	0.75
1:B:586:ILE:HD11	1:B:595:ILE:HD13	1.68	0.75
1:C:593:ASP:O	1:C:597:GLN:HB2	1.87	0.75
1:F:139:ILE:HD13	1:F:155:ILE:HG23	1.67	0.75
1:F:206:ASP:HB3	1:F:209:THR:HG22	1.69	0.75
1:G:106:VAL:CG2	1:G:158:VAL:HG13	2.15	0.75
1:G:333:ASP:CG	1:I:618:MET:HE3	2.07	0.75
1:G:451:ILE:CD1	1:G:479:GLU:HB3	2.16	0.75
1:H:417:GLY:O	1:H:418:ASP:HB3	1.87	0.75
1:L:139:ILE:HD13	1:L:155:ILE:HG23	1.67	0.75
1:L:245:TYR:CD1	1:L:293:SER:HB3	2.22	0.75
1:M:593:ASP:O	1:M:597:GLN:HB2	1.87	0.75
1:M:596:THR:CG2	1:M:597:GLN:H	1.99	0.75
1:N:245:TYR:CD1	1:N:293:SER:HB3	2.22	0.75
1:O:139:ILE:HD13	1:O:155:ILE:HG23	1.67	0.75
1:O:206:ASP:HB3	1:O:209:THR:HG22	1.69	0.75
1:A:112:ARG:HD3	1:A:133:TYR:CE2	2.23	0.74
1:A:322:ILE:HG13	1:A:486:VAL:HG21	1.68	0.74
1:B:510:ALA:HA	1:B:517:ARG:HG3	1.69	0.74
1:F:245:TYR:CD1	1:F:293:SER:HB3	2.22	0.74
1:J:326:ILE:HD11	1:J:502:GLN:NE2	2.00	0.74
1:K:139:ILE:HD13	1:K:155:ILE:HG23	1.67	0.74
1:K:417:GLY:O	1:K:418:ASP:HB3	1.87	0.74
1:M:451:ILE:CD1	1:M:479:GLU:HB3	2.16	0.74
1:A:417:GLY:O	1:A:418:ASP:HB3	1.87	0.74
1:B:206:ASP:HB3	1:B:209:THR:HG22	1.69	0.74
1:F:596:THR:CG2	1:F:597:GLN:N	2.50	0.74
1:G:245:TYR:CD1	1:G:293:SER:HB3	2.22	0.74
1:H:596:THR:CG2	1:H:597:GLN:H	1.99	0.74
1:I:593:ASP:O	1:I:597:GLN:HB2	1.87	0.74
1:K:169:VAL:O	1:K:212:ILE:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:523:LEU:CD2	1:N:538:GLY:HA3	2.17	0.74
1:A:607:GLN:HG3	1:O:329:MET:SD	2.27	0.74
1:C:525:THR:HG21	1:D:440:ILE:CD1	2.16	0.74
1:D:206:ASP:HB3	1:D:209:THR:HG22	1.69	0.74
1:E:245:TYR:CD1	1:E:293:SER:HB3	2.22	0.74
1:I:106:VAL:CG2	1:I:158:VAL:HG13	2.16	0.74
1:L:596:THR:CG2	1:L:597:GLN:N	2.50	0.74
1:M:112:ARG:HD3	1:M:133:TYR:CE2	2.23	0.74
1:N:417:GLY:O	1:N:418:ASP:HB3	1.87	0.74
1:N:593:ASP:O	1:N:597:GLN:HB2	1.87	0.74
1:O:596:THR:CG2	1:O:597:GLN:N	2.50	0.74
1:A:586:ILE:HD11	1:A:595:ILE:HD13	1.68	0.74
1:B:112:ARG:HD3	1:B:133:TYR:CE2	2.23	0.74
1:B:322:ILE:HG13	1:B:486:VAL:HG21	1.68	0.74
1:C:112:ARG:HD3	1:C:133:TYR:CE2	2.23	0.74
1:D:525:THR:HG21	1:E:440:ILE:CD1	2.15	0.74
1:G:109:VAL:HG21	1:H:135:PRO:CD	2.13	0.74
1:H:139:ILE:HD13	1:H:155:ILE:HG23	1.67	0.74
1:H:206:ASP:HB3	1:H:209:THR:HG22	1.69	0.74
1:H:245:TYR:CD1	1:H:293:SER:HB3	2.22	0.74
1:I:245:TYR:CD1	1:I:293:SER:HB3	2.22	0.74
1:J:139:ILE:HD13	1:J:155:ILE:HG23	1.67	0.74
1:J:206:ASP:HB3	1:J:209:THR:HG22	1.69	0.74
1:J:417:GLY:O	1:J:418:ASP:HB3	1.87	0.74
1:J:586:ILE:HD11	1:J:595:ILE:HD13	1.68	0.74
1:J:596:THR:CG2	1:J:597:GLN:N	2.50	0.74
1:L:112:ARG:HD3	1:L:133:TYR:CE2	2.23	0.74
1:N:206:ASP:HB3	1:N:209:THR:HG22	1.69	0.74
1:N:510:ALA:HA	1:N:517:ARG:HG3	1.69	0.74
1:A:206:ASP:HB3	1:A:209:THR:HG22	1.69	0.74
1:B:169:VAL:O	1:B:212:ILE:N	2.20	0.74
1:B:333:ASP:OD2	1:D:618:MET:HE3	1.87	0.74
1:C:417:GLY:O	1:C:418:ASP:HB3	1.87	0.74
1:F:586:ILE:HD11	1:F:595:ILE:HD13	1.69	0.74
1:N:112:ARG:HD3	1:N:133:TYR:CE2	2.23	0.74
1:O:245:TYR:CD1	1:O:293:SER:HB3	2.22	0.74
1:A:596:THR:CG2	1:A:597:GLN:N	2.50	0.74
1:B:525:THR:HG21	1:C:440:ILE:CD1	2.16	0.74
1:C:312:GLN:OE1	1:D:243:VAL:HG12	1.88	0.74
1:C:329:MET:SD	1:D:607:GLN:HG3	2.28	0.74
1:C:596:THR:CG2	1:C:597:GLN:N	2.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:179:MET:HE1	1:D:227:LEU:HB3	1.68	0.74
1:D:593:ASP:O	1:D:597:GLN:HB2	1.87	0.74
1:E:206:ASP:HB3	1:E:209:THR:HG22	1.69	0.74
1:G:179:MET:HE1	1:G:227:LEU:HB3	1.69	0.74
1:L:169:VAL:O	1:L:212:ILE:N	2.20	0.74
1:L:510:ALA:HA	1:L:517:ARG:HG3	1.70	0.74
1:L:593:ASP:O	1:L:597:GLN:HB2	1.87	0.74
1:O:112:ARG:HD3	1:O:133:TYR:CE2	2.23	0.74
1:O:169:VAL:O	1:O:212:ILE:N	2.20	0.74
1:O:510:ALA:HA	1:O:517:ARG:HG3	1.69	0.74
1:A:510:ALA:HA	1:A:517:ARG:HG3	1.69	0.74
1:B:329:MET:SD	1:C:607:GLN:HG3	2.28	0.74
1:C:586:ILE:HD11	1:C:595:ILE:HD13	1.68	0.74
1:D:112:ARG:HD3	1:D:133:TYR:CE2	2.23	0.74
1:D:245:TYR:CD1	1:D:293:SER:HB3	2.22	0.74
1:G:114:LEU:HD11	1:G:158:VAL:HG11	1.70	0.74
1:H:596:THR:CG2	1:H:597:GLN:N	2.50	0.74
1:A:169:VAL:O	1:A:212:ILE:N	2.20	0.74
1:A:329:MET:SD	1:B:607:GLN:HG3	2.28	0.74
1:D:510:ALA:HA	1:D:517:ARG:HG3	1.70	0.74
1:F:169:VAL:O	1:F:212:ILE:N	2.20	0.74
1:H:593:ASP:O	1:H:597:GLN:HB2	1.87	0.74
1:I:206:ASP:HB3	1:I:209:THR:HG22	1.69	0.74
1:J:114:LEU:HD11	1:J:158:VAL:HG11	1.70	0.74
1:M:510:ALA:HA	1:M:517:ARG:HG3	1.69	0.74
1:N:179:MET:HE1	1:N:227:LEU:HB3	1.68	0.74
1:N:596:THR:CG2	1:N:597:GLN:N	2.50	0.74
1:O:106:VAL:CG2	1:O:158:VAL:HG13	2.15	0.74
1:B:106:VAL:CG2	1:B:158:VAL:HG13	2.15	0.74
1:C:169:VAL:O	1:C:212:ILE:N	2.20	0.74
1:C:245:TYR:CD1	1:C:293:SER:HB3	2.22	0.74
1:E:112:ARG:HD3	1:E:133:TYR:CE2	2.23	0.74
1:E:258:LEU:HB3	1:E:285:ILE:CD1	2.18	0.74
1:E:593:ASP:O	1:E:597:GLN:HB2	1.87	0.74
1:F:322:ILE:HG13	1:F:486:VAL:HG21	1.68	0.74
1:F:593:ASP:O	1:F:597:GLN:HB2	1.87	0.74
1:G:169:VAL:O	1:G:212:ILE:N	2.20	0.74
1:L:206:ASP:HB3	1:L:209:THR:HG22	1.69	0.74
1:L:322:ILE:HG13	1:L:486:VAL:HG21	1.68	0.74
1:M:417:GLY:O	1:M:418:ASP:HB3	1.87	0.74
1:N:329:MET:SD	1:O:607:GLN:HG3	2.28	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:586:ILE:HD11	1:O:595:ILE:HD13	1.68	0.74
1:D:329:MET:SD	1:E:607:GLN:HG3	2.28	0.74
1:D:523:LEU:HD11	1:E:440:ILE:HD11	1.68	0.74
1:D:596:THR:CG2	1:D:597:GLN:N	2.50	0.74
1:J:456:VAL:CG2	1:J:518:PHE:CZ	2.71	0.74
1:K:245:TYR:CD1	1:K:293:SER:HB3	2.23	0.74
1:L:329:MET:SD	1:M:607:GLN:HG3	2.28	0.74
1:M:139:ILE:HD13	1:M:155:ILE:HG23	1.67	0.74
1:A:243:VAL:HG12	1:O:312:GLN:OE1	1.89	0.73
1:A:245:TYR:CD1	1:A:293:SER:HB3	2.22	0.73
1:E:586:ILE:HD11	1:E:595:ILE:HD13	1.68	0.73
1:E:596:THR:CG2	1:E:597:GLN:N	2.50	0.73
1:G:333:ASP:OD2	1:I:618:MET:HE3	1.88	0.73
1:J:525:THR:HG21	1:K:440:ILE:CD1	2.16	0.73
1:K:326:ILE:HD11	1:K:502:GLN:NE2	2.00	0.73
1:M:206:ASP:HB3	1:M:209:THR:HG22	1.69	0.73
1:M:329:MET:SD	1:N:607:GLN:HG3	2.28	0.73
1:B:245:TYR:CD1	1:B:293:SER:HB3	2.22	0.73
1:C:322:ILE:HG13	1:C:486:VAL:HG21	1.69	0.73
1:D:586:ILE:HD11	1:D:595:ILE:HD13	1.68	0.73
1:G:312:GLN:OE1	1:H:243:VAL:HG12	1.88	0.73
1:H:112:ARG:HD3	1:H:133:TYR:CE2	2.23	0.73
1:H:169:VAL:O	1:H:212:ILE:N	2.20	0.73
1:H:258:LEU:HB3	1:H:285:ILE:CD1	2.18	0.73
1:I:112:ARG:HD3	1:I:133:TYR:CE2	2.22	0.73
1:I:258:LEU:HB3	1:I:285:ILE:CD1	2.19	0.73
1:J:312:GLN:OE1	1:K:243:VAL:HG12	1.88	0.73
1:K:206:ASP:HB3	1:K:209:THR:HG22	1.69	0.73
1:K:586:ILE:HD11	1:K:595:ILE:HD13	1.68	0.73
1:L:258:LEU:HB3	1:L:285:ILE:CD1	2.18	0.73
1:A:369:ALA:HB1	1:A:397:TYR:HD1	1.52	0.73
1:C:510:ALA:HA	1:C:517:ARG:HG3	1.69	0.73
1:E:329:MET:SD	1:F:607:GLN:HG3	2.28	0.73
1:K:106:VAL:CG2	1:K:158:VAL:HG13	2.15	0.73
1:K:329:MET:SD	1:L:607:GLN:HG3	2.28	0.73
1:C:456:VAL:CG2	1:C:518:PHE:CZ	2.72	0.73
1:E:169:VAL:O	1:E:212:ILE:N	2.20	0.73
1:F:112:ARG:HD3	1:F:133:TYR:CE2	2.23	0.73
1:F:114:LEU:HD11	1:F:158:VAL:HG11	1.70	0.73
1:H:525:THR:HG21	1:I:440:ILE:CD1	2.15	0.73
1:M:106:VAL:CG2	1:M:158:VAL:HG13	2.15	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:586:ILE:HD11	1:M:595:ILE:HD13	1.68	0.73
1:M:596:THR:CG2	1:M:597:GLN:N	2.50	0.73
1:N:312:GLN:OE1	1:O:243:VAL:HG12	1.88	0.73
1:N:586:ILE:HD11	1:N:595:ILE:HD13	1.68	0.73
1:D:106:VAL:CG2	1:D:158:VAL:HG13	2.15	0.73
1:F:206:ASP:OD2	1:F:208:ARG:HB3	1.89	0.73
1:F:258:LEU:HB3	1:F:285:ILE:CD1	2.19	0.73
1:F:329:MET:SD	1:G:607:GLN:HG3	2.28	0.73
1:F:417:GLY:O	1:F:418:ASP:HB3	1.87	0.73
1:G:329:MET:SD	1:H:607:GLN:HG3	2.28	0.73
1:H:317:ARG:NH2	1:H:444:ASP:O	2.22	0.73
1:H:329:MET:SD	1:I:607:GLN:HG3	2.28	0.73
1:I:114:LEU:HD11	1:I:158:VAL:HG11	1.70	0.73
1:I:329:MET:SD	1:J:607:GLN:HG3	2.28	0.73
1:J:510:ALA:HA	1:J:517:ARG:HG3	1.69	0.73
1:K:312:GLN:OE1	1:L:243:VAL:HG12	1.89	0.73
1:A:326:ILE:HD11	1:A:502:GLN:NE2	2.00	0.73
1:B:456:VAL:CG2	1:B:518:PHE:CZ	2.72	0.73
1:C:206:ASP:OD2	1:C:208:ARG:HB3	1.89	0.73
1:E:525:THR:HG21	1:F:440:ILE:CD1	2.16	0.73
1:F:312:GLN:OE1	1:G:243:VAL:HG12	1.89	0.73
1:F:510:ALA:HA	1:F:517:ARG:HG3	1.70	0.73
1:G:206:ASP:OD2	1:G:208:ARG:HB3	1.89	0.73
1:G:456:VAL:CG2	1:G:518:PHE:CZ	2.72	0.73
1:G:510:ALA:HA	1:G:517:ARG:HG3	1.69	0.73
1:I:312:GLN:OE1	1:J:243:VAL:HG12	1.89	0.73
1:I:525:THR:HG21	1:J:440:ILE:CD1	2.16	0.73
1:J:245:TYR:CD1	1:J:293:SER:HB3	2.22	0.73
1:J:258:LEU:HB3	1:J:285:ILE:CD1	2.19	0.73
1:K:114:LEU:HD11	1:K:158:VAL:HG11	1.70	0.73
1:N:369:ALA:HB1	1:N:397:TYR:CE1	2.24	0.73
1:B:369:ALA:HB1	1:B:397:TYR:CE1	2.24	0.73
1:D:169:VAL:O	1:D:212:ILE:N	2.20	0.73
1:D:317:ARG:NH2	1:D:444:ASP:O	2.22	0.73
1:D:322:ILE:HG13	1:D:486:VAL:HG21	1.69	0.73
1:E:206:ASP:OD2	1:E:208:ARG:HB3	1.89	0.73
1:E:322:ILE:CD1	1:E:498:LEU:HD21	2.19	0.73
1:G:317:ARG:NH2	1:G:444:ASP:O	2.22	0.73
1:G:525:THR:HG21	1:H:440:ILE:CD1	2.16	0.73
1:G:593:ASP:O	1:G:597:GLN:HB2	1.87	0.73
1:H:114:LEU:HD11	1:H:158:VAL:HG11	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:525:THR:HG21	1:N:440:ILE:CD1	2.16	0.73
1:A:114:LEU:HD11	1:A:158:VAL:HG11	1.70	0.73
1:B:417:GLY:O	1:B:418:ASP:HB3	1.87	0.73
1:D:114:LEU:HD11	1:D:158:VAL:HG11	1.70	0.73
1:I:510:ALA:HA	1:I:517:ARG:HG3	1.69	0.73
1:J:329:MET:SD	1:K:607:GLN:HG3	2.28	0.73
1:K:510:ALA:HB2	1:K:516:VAL:HA	1.71	0.73
1:L:317:ARG:NH2	1:L:444:ASP:O	2.22	0.73
1:M:326:ILE:HD11	1:M:502:GLN:NE2	2.00	0.73
1:N:456:VAL:CG2	1:N:518:PHE:CZ	2.71	0.73
1:O:206:ASP:OD2	1:O:208:ARG:HB3	1.89	0.73
1:A:618:MET:HE3	1:N:333:ASP:OD2	1.89	0.73
1:D:456:VAL:CG2	1:D:518:PHE:CZ	2.72	0.73
1:I:317:ARG:NH2	1:I:444:ASP:O	2.22	0.73
1:K:112:ARG:HD3	1:K:133:TYR:CE2	2.23	0.73
1:A:226:ARG:O	1:A:230:GLN:HG2	1.89	0.73
1:B:258:LEU:HB3	1:B:285:ILE:CD1	2.19	0.73
1:D:206:ASP:OD2	1:D:208:ARG:HB3	1.89	0.73
1:F:456:VAL:CG2	1:F:518:PHE:CZ	2.72	0.73
1:G:112:ARG:HD3	1:G:133:TYR:CE2	2.23	0.73
1:L:114:LEU:HD11	1:L:158:VAL:HG11	1.70	0.73
1:L:312:GLN:OE1	1:M:243:VAL:HG12	1.89	0.73
1:M:114:LEU:HD11	1:M:158:VAL:HG11	1.70	0.73
1:M:369:ALA:HB1	1:M:397:TYR:CE1	2.23	0.73
1:B:226:ARG:O	1:B:230:GLN:HG2	1.89	0.72
1:C:258:LEU:HB3	1:C:285:ILE:CD1	2.19	0.72
1:E:322:ILE:HG13	1:E:486:VAL:HG21	1.69	0.72
1:E:451:ILE:HD11	1:E:479:GLU:HB3	1.71	0.72
1:E:456:VAL:CG2	1:E:518:PHE:CZ	2.72	0.72
1:K:258:LEU:HB3	1:K:285:ILE:CD1	2.19	0.72
1:K:369:ALA:HB1	1:K:397:TYR:HD1	1.52	0.72
1:L:510:ALA:HB2	1:L:516:VAL:HA	1.72	0.72
1:L:586:ILE:HD11	1:L:595:ILE:HD13	1.68	0.72
1:M:312:GLN:OE1	1:N:243:VAL:HG12	1.89	0.72
1:N:206:ASP:OD2	1:N:208:ARG:HB3	1.89	0.72
1:N:317:ARG:NH2	1:N:444:ASP:O	2.22	0.72
1:O:258:LEU:HB3	1:O:285:ILE:CD1	2.19	0.72
1:O:510:ALA:HB2	1:O:516:VAL:HA	1.71	0.72
1:B:596:THR:CG2	1:B:597:GLN:N	2.50	0.72
1:C:322:ILE:CD1	1:C:498:LEU:HD21	2.19	0.72
1:D:258:LEU:HB3	1:D:285:ILE:CD1	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:451:ILE:HD11	1:F:479:GLU:HB3	1.71	0.72
1:G:322:ILE:CD1	1:G:498:LEU:HD21	2.19	0.72
1:H:456:VAL:CG2	1:H:518:PHE:CZ	2.72	0.72
1:J:369:ALA:HB1	1:J:397:TYR:CE1	2.24	0.72
1:K:317:ARG:NH2	1:K:444:ASP:O	2.22	0.72
1:L:223:ARG:HE	1:L:226:ARG:NH2	1.87	0.72
1:M:258:LEU:HB3	1:M:285:ILE:CD1	2.19	0.72
1:M:317:ARG:NH2	1:M:444:ASP:O	2.22	0.72
1:M:456:VAL:CG2	1:M:518:PHE:CZ	2.72	0.72
1:M:523:LEU:HD11	1:N:440:ILE:HD11	1.67	0.72
1:N:226:ARG:O	1:N:230:GLN:HG2	1.89	0.72
1:N:510:ALA:HB2	1:N:516:VAL:HA	1.71	0.72
1:O:226:ARG:O	1:O:230:GLN:HG2	1.90	0.72
1:O:322:ILE:CD1	1:O:498:LEU:HD21	2.19	0.72
1:A:317:ARG:NH2	1:A:444:ASP:O	2.22	0.72
1:A:440:ILE:HD11	1:O:523:LEU:HD11	1.68	0.72
1:B:114:LEU:HD11	1:B:158:VAL:HG11	1.70	0.72
1:B:312:GLN:OE1	1:C:243:VAL:HG12	1.89	0.72
1:F:525:THR:HG21	1:G:440:ILE:CD1	2.16	0.72
1:H:206:ASP:OD2	1:H:208:ARG:HB3	1.89	0.72
1:H:223:ARG:HE	1:H:226:ARG:NH2	1.87	0.72
1:H:322:ILE:CD1	1:H:498:LEU:HD21	2.19	0.72
1:J:112:ARG:HD3	1:J:133:TYR:CE2	2.23	0.72
1:K:369:ALA:HB1	1:K:397:TYR:CE1	2.25	0.72
1:K:456:VAL:CG2	1:K:518:PHE:CZ	2.72	0.72
1:M:226:ARG:O	1:M:230:GLN:HG2	1.90	0.72
1:O:456:VAL:CG2	1:O:518:PHE:CZ	2.72	0.72
1:A:456:VAL:CG2	1:A:518:PHE:CZ	2.72	0.72
1:D:312:GLN:OE1	1:E:243:VAL:HG12	1.89	0.72
1:E:114:LEU:HD11	1:E:158:VAL:HG11	1.70	0.72
1:I:586:ILE:HD11	1:I:595:ILE:CD1	2.20	0.72
1:M:206:ASP:OD2	1:M:208:ARG:HB3	1.89	0.72
1:O:114:LEU:HD11	1:O:158:VAL:HG11	1.70	0.72
1:C:317:ARG:NH2	1:C:444:ASP:O	2.22	0.72
1:E:369:ALA:HB1	1:E:397:TYR:CE1	2.24	0.72
1:I:206:ASP:OD2	1:I:208:ARG:HB3	1.89	0.72
1:I:510:ALA:HB2	1:I:516:VAL:HA	1.71	0.72
1:J:510:ALA:HB2	1:J:516:VAL:HA	1.71	0.72
1:L:369:ALA:HB1	1:L:397:TYR:CE1	2.24	0.72
1:N:258:LEU:HB3	1:N:285:ILE:CD1	2.19	0.72
1:A:206:ASP:OD2	1:A:208:ARG:HB3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:206:ASP:OD2	1:B:208:ARG:HB3	1.89	0.72
1:B:317:ARG:NH2	1:B:444:ASP:O	2.22	0.72
1:B:322:ILE:CD1	1:B:498:LEU:HD21	2.19	0.72
1:C:369:ALA:HB1	1:C:397:TYR:CE1	2.24	0.72
1:D:326:ILE:HD11	1:D:502:GLN:NE2	2.00	0.72
1:K:374:VAL:O	1:K:391:ARG:HG2	1.90	0.72
1:L:226:ARG:O	1:L:230:GLN:HG2	1.90	0.72
1:L:326:ILE:HD11	1:L:502:GLN:NE2	2.00	0.72
1:N:322:ILE:CD1	1:N:498:LEU:HD21	2.19	0.72
1:O:369:ALA:HB1	1:O:397:TYR:CE1	2.25	0.72
1:A:451:ILE:HD11	1:A:479:GLU:HB3	1.72	0.72
1:C:226:ARG:O	1:C:230:GLN:HG2	1.90	0.72
1:C:451:ILE:HD11	1:C:479:GLU:HB3	1.72	0.72
1:D:223:ARG:HE	1:D:226:ARG:NH2	1.87	0.72
1:E:317:ARG:NH2	1:E:444:ASP:O	2.22	0.72
1:E:369:ALA:HB1	1:E:397:TYR:HD1	1.52	0.72
1:I:369:ALA:HB1	1:I:397:TYR:CE1	2.24	0.72
1:L:374:VAL:O	1:L:391:ARG:HG2	1.90	0.72
1:A:510:ALA:HB2	1:A:516:VAL:HA	1.72	0.72
1:C:523:LEU:HD11	1:D:440:ILE:HD11	1.68	0.72
1:D:322:ILE:CD1	1:D:498:LEU:HD21	2.19	0.72
1:E:326:ILE:HD11	1:E:502:GLN:NE2	2.00	0.72
1:F:317:ARG:NH2	1:F:444:ASP:O	2.22	0.72
1:G:258:LEU:HB3	1:G:285:ILE:CD1	2.19	0.72
1:H:106:VAL:HG21	1:H:158:VAL:CG1	2.17	0.72
1:H:369:ALA:HB1	1:H:397:TYR:CE1	2.24	0.72
1:H:510:ALA:HB2	1:H:516:VAL:HA	1.72	0.72
1:I:456:VAL:CG2	1:I:518:PHE:CZ	2.73	0.72
1:J:317:ARG:NH2	1:J:444:ASP:O	2.22	0.72
1:L:456:VAL:CG2	1:L:518:PHE:CZ	2.72	0.72
1:M:322:ILE:CD1	1:M:498:LEU:HD21	2.19	0.72
1:M:374:VAL:O	1:M:391:ARG:HG2	1.90	0.72
1:M:510:ALA:HB2	1:M:516:VAL:HA	1.72	0.72
1:A:322:ILE:CD1	1:A:498:LEU:HD21	2.19	0.72
1:A:369:ALA:HB1	1:A:397:TYR:CE1	2.24	0.72
1:C:114:LEU:HD11	1:C:158:VAL:HG11	1.70	0.72
1:C:510:ALA:HB2	1:C:516:VAL:HA	1.71	0.72
1:D:451:ILE:HD11	1:D:479:GLU:HB3	1.72	0.72
1:E:223:ARG:HE	1:E:226:ARG:NH2	1.88	0.72
1:I:322:ILE:CD1	1:I:498:LEU:HD21	2.19	0.72
1:J:586:ILE:HD11	1:J:595:ILE:CD1	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:525:THR:HG21	1:L:440:ILE:CD1	2.15	0.72
1:L:206:ASP:OD2	1:L:208:ARG:HB3	1.89	0.72
1:L:333:ASP:OD2	1:N:618:MET:HE3	1.88	0.72
1:B:326:ILE:HD11	1:B:502:GLN:NE2	2.00	0.72
1:D:223:ARG:HE	1:D:226:ARG:HH22	1.36	0.72
1:F:322:ILE:CD1	1:F:498:LEU:HD21	2.19	0.72
1:F:369:ALA:HB1	1:F:397:TYR:CE1	2.24	0.72
1:G:586:ILE:HD11	1:G:595:ILE:CD1	2.20	0.72
1:H:312:GLN:OE1	1:I:243:VAL:HG12	1.89	0.72
1:H:586:ILE:HD11	1:H:595:ILE:CD1	2.20	0.72
1:J:322:ILE:CD1	1:J:498:LEU:HD21	2.19	0.72
1:M:451:ILE:HD11	1:M:479:GLU:HB3	1.72	0.72
1:N:374:VAL:O	1:N:391:ARG:HG2	1.90	0.72
1:A:258:LEU:HB3	1:A:285:ILE:CD1	2.18	0.71
1:E:333:ASP:OD2	1:G:618:MET:HE3	1.90	0.71
1:E:510:ALA:HA	1:E:517:ARG:HG3	1.70	0.71
1:F:333:ASP:OD2	1:H:618:MET:HE3	1.90	0.71
1:H:223:ARG:HE	1:H:226:ARG:HH22	1.36	0.71
1:I:223:ARG:HE	1:I:226:ARG:NH2	1.88	0.71
1:J:333:ASP:OD2	1:L:618:MET:HE3	1.89	0.71
1:J:374:VAL:O	1:J:391:ARG:HG2	1.90	0.71
1:K:552:VAL:HG22	1:K:565:PHE:CB	2.20	0.71
1:L:322:ILE:CD1	1:L:498:LEU:HD21	2.19	0.71
1:N:451:ILE:HD11	1:N:479:GLU:HB3	1.72	0.71
1:B:451:ILE:HD11	1:B:479:GLU:HB3	1.72	0.71
1:D:226:ARG:O	1:D:230:GLN:HG2	1.90	0.71
1:G:341:TRP:CE3	1:G:421:ALA:HB2	2.25	0.71
1:H:510:ALA:HA	1:H:517:ARG:HG3	1.69	0.71
1:J:206:ASP:OD2	1:J:208:ARG:HB3	1.89	0.71
1:K:322:ILE:CD1	1:K:498:LEU:HD21	2.19	0.71
1:K:510:ALA:HA	1:K:517:ARG:HG3	1.70	0.71
1:K:586:ILE:HD11	1:K:595:ILE:CD1	2.20	0.71
1:L:451:ILE:HD11	1:L:479:GLU:HB3	1.72	0.71
1:O:374:VAL:O	1:O:391:ARG:HG2	1.90	0.71
1:O:451:ILE:HD11	1:O:479:GLU:HB3	1.72	0.71
1:A:312:GLN:OE1	1:B:243:VAL:HG12	1.89	0.71
1:A:525:THR:HG21	1:B:440:ILE:CD1	2.16	0.71
1:G:451:ILE:HD11	1:G:479:GLU:HB3	1.72	0.71
1:G:552:VAL:HG12	1:H:410:ALA:HB2	1.72	0.71
1:K:206:ASP:OD2	1:K:208:ARG:HB3	1.89	0.71
1:K:226:ARG:O	1:K:230:GLN:HG2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:586:ILE:HD11	1:L:595:ILE:CD1	2.20	0.71
1:M:223:ARG:HE	1:M:226:ARG:NH2	1.89	0.71
1:N:114:LEU:HD11	1:N:158:VAL:HG11	1.70	0.71
1:O:138:ILE:HG22	1:O:139:ILE:N	2.06	0.71
1:O:223:ARG:HE	1:O:226:ARG:HH22	1.37	0.71
1:A:374:VAL:O	1:A:391:ARG:HG2	1.90	0.71
1:E:312:GLN:OE1	1:F:243:VAL:HG12	1.89	0.71
1:F:510:ALA:HB2	1:F:516:VAL:HA	1.71	0.71
1:G:510:ALA:HB2	1:G:516:VAL:HA	1.71	0.71
1:I:374:VAL:O	1:I:391:ARG:HG2	1.90	0.71
1:J:523:LEU:HD13	1:K:450:PHE:HD1	1.56	0.71
1:K:523:LEU:HD13	1:L:450:PHE:HD1	1.56	0.71
1:N:369:ALA:HB1	1:N:397:TYR:HD1	1.52	0.71
1:O:223:ARG:HE	1:O:226:ARG:NH2	1.88	0.71
1:D:586:ILE:HD11	1:D:595:ILE:CD1	2.20	0.71
1:E:226:ARG:O	1:E:230:GLN:HG2	1.89	0.71
1:F:106:VAL:HG21	1:F:158:VAL:CG1	2.17	0.71
1:H:341:TRP:CE3	1:H:421:ALA:HB2	2.25	0.71
1:H:552:VAL:HG22	1:H:565:PHE:CB	2.20	0.71
1:I:223:ARG:HE	1:I:226:ARG:HH22	1.37	0.71
1:I:523:LEU:HD11	1:J:440:ILE:HD11	1.67	0.71
1:M:138:ILE:HG22	1:M:139:ILE:N	2.06	0.71
1:O:317:ARG:NH2	1:O:444:ASP:O	2.22	0.71
1:B:138:ILE:HG22	1:B:139:ILE:N	2.06	0.71
1:B:510:ALA:HB2	1:B:516:VAL:HA	1.72	0.71
1:B:586:ILE:HD11	1:B:595:ILE:CD1	2.20	0.71
1:C:586:ILE:HD11	1:C:595:ILE:CD1	2.20	0.71
1:D:510:ALA:HB2	1:D:516:VAL:HA	1.71	0.71
1:D:523:LEU:HD13	1:E:450:PHE:HD1	1.56	0.71
1:D:552:VAL:HG22	1:D:565:PHE:CB	2.20	0.71
1:J:226:ARG:O	1:J:230:GLN:HG2	1.89	0.71
1:K:138:ILE:HG22	1:K:139:ILE:N	2.06	0.71
1:L:223:ARG:HE	1:L:226:ARG:HH22	1.36	0.71
1:M:586:ILE:HD11	1:M:595:ILE:CD1	2.20	0.71
1:A:121:LEU:HD11	1:A:150:ARG:CB	2.21	0.71
1:A:333:ASP:OD2	1:C:618:MET:HE3	1.90	0.71
1:A:517:ARG:HD2	1:B:456:VAL:HG12	1.73	0.71
1:E:552:VAL:HG22	1:E:565:PHE:CB	2.20	0.71
1:F:586:ILE:HD11	1:F:595:ILE:CD1	2.20	0.71
1:H:451:ILE:HD11	1:H:479:GLU:HB3	1.72	0.71
1:B:374:VAL:O	1:B:391:ARG:HG2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:510:ALA:HB2	1:E:516:VAL:HA	1.72	0.71
1:G:369:ALA:HB1	1:G:397:TYR:HD1	1.52	0.71
1:E:586:ILE:HD11	1:E:595:ILE:CD1	2.20	0.71
1:H:374:VAL:O	1:H:391:ARG:HG2	1.90	0.71
1:K:333:ASP:OD2	1:M:618:MET:HE3	1.91	0.71
1:K:451:ILE:HD11	1:K:479:GLU:HB3	1.72	0.71
1:L:523:LEU:HD13	1:M:450:PHE:HD1	1.56	0.71
1:L:552:VAL:HG22	1:L:565:PHE:CB	2.20	0.71
1:M:219:LYS:NZ	1:N:105:ALA:HB2	2.06	0.71
1:D:121:LEU:HD11	1:D:150:ARG:CB	2.21	0.71
1:D:138:ILE:HG22	1:D:139:ILE:N	2.06	0.71
1:D:341:TRP:CE3	1:D:421:ALA:HB2	2.25	0.71
1:G:369:ALA:HB1	1:G:397:TYR:CE1	2.25	0.71
1:I:451:ILE:HD11	1:I:479:GLU:HB3	1.72	0.71
1:J:552:VAL:HG12	1:K:410:ALA:HB2	1.72	0.71
1:L:552:VAL:HG12	1:M:410:ALA:HB2	1.73	0.71
1:O:552:VAL:HG22	1:O:565:PHE:CB	2.20	0.71
1:C:552:VAL:HG22	1:C:565:PHE:CB	2.20	0.70
1:E:223:ARG:HE	1:E:226:ARG:HH22	1.37	0.70
1:F:523:LEU:HD11	1:G:440:ILE:HD11	1.68	0.70
1:F:552:VAL:HG12	1:G:410:ALA:HB2	1.73	0.70
1:K:552:VAL:HG12	1:L:410:ALA:HB2	1.73	0.70
1:M:552:VAL:HG12	1:N:410:ALA:HB2	1.73	0.70
1:A:586:ILE:HD11	1:A:595:ILE:CD1	2.20	0.70
1:C:326:ILE:HD11	1:C:502:GLN:NE2	2.00	0.70
1:C:369:ALA:HB1	1:C:397:TYR:HD1	1.52	0.70
1:D:369:ALA:HB1	1:D:397:TYR:CE1	2.24	0.70
1:F:226:ARG:O	1:F:230:GLN:HG2	1.89	0.70
1:G:121:LEU:HD11	1:G:150:ARG:CB	2.22	0.70
1:K:223:ARG:HE	1:K:226:ARG:NH2	1.89	0.70
1:N:552:VAL:HG12	1:O:410:ALA:HB2	1.72	0.70
1:B:121:LEU:HD11	1:B:150:ARG:CB	2.21	0.70
1:D:333:ASP:OD2	1:F:618:MET:HE3	1.91	0.70
1:H:552:VAL:HG12	1:I:410:ALA:HB2	1.73	0.70
1:I:138:ILE:HG22	1:I:139:ILE:N	2.06	0.70
1:I:226:ARG:O	1:I:230:GLN:HG2	1.89	0.70
1:I:552:VAL:HG22	1:I:565:PHE:CB	2.19	0.70
1:J:451:ILE:HD11	1:J:479:GLU:HB3	1.72	0.70
1:L:341:TRP:CE3	1:L:421:ALA:HB2	2.25	0.70
1:M:258:LEU:HB3	1:M:285:ILE:HD13	1.73	0.70
1:A:106:VAL:CG2	1:A:158:VAL:HG13	2.15	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:341:TRP:CE3	1:E:421:ALA:HB2	2.26	0.70
1:F:341:TRP:CE3	1:F:421:ALA:HB2	2.27	0.70
1:H:226:ARG:O	1:H:230:GLN:HG2	1.90	0.70
1:I:121:LEU:HD11	1:I:150:ARG:CB	2.21	0.70
1:C:523:LEU:HD13	1:D:450:PHE:HD1	1.56	0.70
1:E:121:LEU:HD11	1:E:150:ARG:CB	2.21	0.70
1:F:121:LEU:HD11	1:F:150:ARG:CB	2.21	0.70
1:G:138:ILE:HG22	1:G:139:ILE:N	2.06	0.70
1:G:523:LEU:HD13	1:H:450:PHE:HD1	1.56	0.70
1:H:176:ALA:CB	1:H:205:ALA:CB	2.70	0.70
1:K:106:VAL:HG21	1:K:158:VAL:CG1	2.17	0.70
1:M:121:LEU:HD11	1:M:150:ARG:CB	2.21	0.70
1:O:258:LEU:HB3	1:O:285:ILE:HD13	1.73	0.70
1:E:552:VAL:HG12	1:F:410:ALA:HB2	1.73	0.70
1:G:223:ARG:HE	1:G:226:ARG:NH2	1.90	0.70
1:G:226:ARG:O	1:G:230:GLN:HG2	1.90	0.70
1:J:121:LEU:HD11	1:J:150:ARG:CB	2.21	0.70
1:K:341:TRP:CE3	1:K:421:ALA:HB2	2.25	0.70
1:N:258:LEU:HB3	1:N:285:ILE:HD13	1.74	0.70
1:N:523:LEU:HD13	1:O:450:PHE:HD1	1.56	0.70
1:O:586:ILE:HD11	1:O:595:ILE:CD1	2.20	0.70
1:F:369:ALA:HB1	1:F:397:TYR:HD1	1.52	0.70
1:F:374:VAL:O	1:F:391:ARG:HG2	1.90	0.70
1:G:374:VAL:O	1:G:391:ARG:HG2	1.90	0.70
1:I:219:LYS:NZ	1:J:105:ALA:HB2	2.06	0.70
1:I:333:ASP:OD2	1:K:618:MET:HE3	1.92	0.70
1:I:341:TRP:CE3	1:I:421:ALA:HB2	2.26	0.70
1:I:552:VAL:HG12	1:J:410:ALA:HB2	1.72	0.70
1:N:173:ASN:HB3	1:N:235:MET:SD	2.32	0.70
1:F:138:ILE:HG22	1:F:139:ILE:N	2.06	0.70
1:F:552:VAL:HG22	1:F:565:PHE:CB	2.20	0.70
1:K:523:LEU:HD11	1:L:440:ILE:HD11	1.68	0.70
1:B:618:MET:HE3	1:O:333:ASP:OD2	1.90	0.70
1:C:341:TRP:CE3	1:C:421:ALA:HB2	2.26	0.70
1:F:523:LEU:HD13	1:G:450:PHE:HD1	1.56	0.70
1:L:258:LEU:HB3	1:L:285:ILE:HD13	1.73	0.70
1:N:121:LEU:HD11	1:N:150:ARG:CB	2.21	0.70
1:N:523:LEU:HD11	1:O:440:ILE:HD11	1.68	0.70
1:A:223:ARG:HE	1:A:226:ARG:NH2	1.89	0.70
1:A:450:PHE:HD1	1:O:523:LEU:HD13	1.56	0.70
1:C:121:LEU:HD11	1:C:150:ARG:CB	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:442:VAL:CG1	1:D:488:PRO:CG	2.70	0.70
1:E:258:LEU:HB3	1:E:285:ILE:HD13	1.73	0.70
1:E:374:VAL:O	1:E:391:ARG:HG2	1.90	0.70
1:H:523:LEU:HD13	1:I:450:PHE:HD1	1.56	0.70
1:B:258:LEU:HB3	1:B:285:ILE:HD13	1.73	0.69
1:B:369:ALA:HB1	1:B:397:TYR:HD1	1.52	0.69
1:C:442:VAL:CG1	1:C:488:PRO:CG	2.70	0.69
1:I:173:ASN:HB3	1:I:235:MET:SD	2.32	0.69
1:I:523:LEU:HD13	1:J:450:PHE:HD1	1.57	0.69
1:C:374:VAL:O	1:C:391:ARG:HG2	1.90	0.69
1:C:517:ARG:HD2	1:D:456:VAL:HG12	1.74	0.69
1:D:313:LEU:HD11	1:E:295:VAL:HG21	1.75	0.69
1:E:313:LEU:HD11	1:F:295:VAL:HG21	1.74	0.69
1:E:442:VAL:CG1	1:E:488:PRO:CG	2.70	0.69
1:F:173:ASN:HB3	1:F:235:MET:SD	2.32	0.69
1:H:333:ASP:OD2	1:J:618:MET:HE3	1.91	0.69
1:J:169:VAL:CG2	1:J:228:ILE:HD13	2.23	0.69
1:L:121:LEU:HD11	1:L:150:ARG:CB	2.21	0.69
1:N:525:THR:HG21	1:O:440:ILE:CD1	2.16	0.69
1:N:586:ILE:HD11	1:N:595:ILE:CD1	2.20	0.69
1:A:258:LEU:HB3	1:A:285:ILE:HD13	1.73	0.69
1:B:523:LEU:HD11	1:C:440:ILE:HD11	1.67	0.69
1:D:173:ASN:HB3	1:D:235:MET:SD	2.33	0.69
1:F:442:VAL:CG1	1:F:488:PRO:CG	2.70	0.69
1:H:121:LEU:HD11	1:H:150:ARG:CB	2.21	0.69
1:I:169:VAL:CG2	1:I:228:ILE:HD13	2.22	0.69
1:I:176:ALA:CB	1:I:205:ALA:CB	2.70	0.69
1:I:313:LEU:HD11	1:J:295:VAL:HG21	1.74	0.69
1:L:219:LYS:NZ	1:M:105:ALA:HB2	2.08	0.69
1:L:523:LEU:HD11	1:M:440:ILE:HD11	1.68	0.69
1:O:341:TRP:CE3	1:O:421:ALA:HB2	2.25	0.69
1:B:341:TRP:CE3	1:B:421:ALA:HB2	2.27	0.69
1:C:218:PRO:HA	1:C:221:ARG:HB2	1.75	0.69
1:C:313:LEU:HD11	1:D:295:VAL:HG21	1.75	0.69
1:H:313:LEU:HD11	1:I:295:VAL:HG21	1.75	0.69
1:M:523:LEU:HD13	1:N:450:PHE:HD1	1.57	0.69
1:N:106:VAL:CG2	1:N:158:VAL:HG13	2.15	0.69
1:O:121:LEU:HD11	1:O:150:ARG:CB	2.21	0.69
1:B:173:ASN:HB3	1:B:235:MET:SD	2.33	0.69
1:B:218:PRO:HA	1:B:221:ARG:HB2	1.75	0.69
1:C:169:VAL:CG2	1:C:228:ILE:HD13	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:374:VAL:O	1:D:391:ARG:HG2	1.90	0.69
1:E:173:ASN:HB3	1:E:235:MET:SD	2.32	0.69
1:E:219:LYS:NZ	1:F:105:ALA:HB2	2.07	0.69
1:E:523:LEU:HD13	1:F:450:PHE:HD1	1.57	0.69
1:F:313:LEU:HD11	1:G:295:VAL:HG21	1.74	0.69
1:G:442:VAL:CG1	1:G:488:PRO:CG	2.70	0.69
1:H:138:ILE:HG22	1:H:139:ILE:N	2.06	0.69
1:H:442:VAL:CG1	1:H:488:PRO:CG	2.71	0.69
1:I:369:ALA:HB1	1:I:397:TYR:HD1	1.52	0.69
1:I:442:VAL:CG1	1:I:488:PRO:CG	2.70	0.69
1:J:586:ILE:CD1	1:J:595:ILE:HD12	2.23	0.69
1:N:517:ARG:HD2	1:O:456:VAL:HG12	1.74	0.69
1:A:138:ILE:HG22	1:A:139:ILE:N	2.06	0.69
1:A:313:LEU:HD11	1:B:295:VAL:HG21	1.75	0.69
1:B:313:LEU:HD11	1:C:295:VAL:HG21	1.75	0.69
1:C:596:THR:HG23	1:C:597:GLN:H	1.57	0.69
1:D:218:PRO:HA	1:D:221:ARG:HB2	1.75	0.69
1:E:218:PRO:HA	1:E:221:ARG:HB2	1.75	0.69
1:H:517:ARG:HD2	1:I:456:VAL:HG12	1.73	0.69
1:J:173:ASN:HB3	1:J:235:MET:SD	2.33	0.69
1:J:341:TRP:CE3	1:J:421:ALA:HB2	2.27	0.69
1:M:173:ASN:HB3	1:M:235:MET:SD	2.32	0.69
1:M:517:ARG:HD2	1:N:456:VAL:HG12	1.73	0.69
1:M:552:VAL:HG22	1:M:565:PHE:CB	2.20	0.69
1:A:218:PRO:HA	1:A:221:ARG:HB2	1.75	0.69
1:A:341:TRP:CE3	1:A:421:ALA:HB2	2.26	0.69
1:C:258:LEU:HB3	1:C:285:ILE:HD13	1.74	0.69
1:D:176:ALA:CB	1:D:205:ALA:CB	2.70	0.69
1:J:313:LEU:HD11	1:K:295:VAL:HG21	1.74	0.69
1:K:121:LEU:HD11	1:K:150:ARG:CB	2.21	0.69
1:M:341:TRP:CE3	1:M:421:ALA:HB2	2.27	0.69
1:O:176:ALA:CB	1:O:205:ALA:CB	2.70	0.69
1:A:105:ALA:HB2	1:O:219:LYS:NZ	2.07	0.69
1:A:176:ALA:CB	1:A:205:ALA:CB	2.70	0.69
1:A:586:ILE:CD1	1:A:595:ILE:HD12	2.23	0.69
1:B:169:VAL:CG2	1:B:228:ILE:HD13	2.23	0.69
1:B:176:ALA:CB	1:B:205:ALA:CB	2.70	0.69
1:B:365:GLY:CA	1:B:399:THR:HG23	2.17	0.69
1:B:523:LEU:HD13	1:C:450:PHE:HD1	1.57	0.69
1:B:586:ILE:CD1	1:B:595:ILE:HD12	2.23	0.69
1:C:176:ALA:CB	1:C:205:ALA:CB	2.70	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:480:VAL:HG23	1:C:480:VAL:O	1.93	0.69
1:C:586:ILE:CD1	1:C:595:ILE:HD12	2.23	0.69
1:D:258:LEU:HB3	1:D:285:ILE:HD13	1.73	0.69
1:D:369:ALA:HB1	1:D:397:TYR:HD1	1.52	0.69
1:D:552:VAL:HG12	1:E:410:ALA:HB2	1.73	0.69
1:E:517:ARG:HD2	1:F:456:VAL:HG12	1.74	0.69
1:F:218:PRO:HA	1:F:221:ARG:HB2	1.75	0.69
1:G:313:LEU:HD11	1:H:295:VAL:HG21	1.75	0.69
1:H:169:VAL:CG2	1:H:228:ILE:HD13	2.23	0.69
1:H:219:LYS:NZ	1:I:105:ALA:HB2	2.08	0.69
1:H:258:LEU:HD11	1:H:310:ILE:HG12	1.75	0.69
1:J:202:LYS:N	1:J:215:SER:O	2.26	0.69
1:J:442:VAL:CG1	1:J:488:PRO:CG	2.70	0.69
1:J:552:VAL:HG22	1:J:565:PHE:CB	2.20	0.69
1:K:219:LYS:NZ	1:L:105:ALA:HB2	2.07	0.69
1:K:313:LEU:HD11	1:L:295:VAL:HG21	1.75	0.69
1:K:480:VAL:HG23	1:K:480:VAL:O	1.93	0.69
1:K:586:ILE:CD1	1:K:595:ILE:HD12	2.23	0.69
1:L:173:ASN:HB3	1:L:235:MET:SD	2.32	0.69
1:L:602:TYR:CE1	1:M:635:HIS:CD2	2.81	0.69
1:N:218:PRO:HA	1:N:221:ARG:HB2	1.75	0.69
1:N:341:TRP:CE3	1:N:421:ALA:HB2	2.26	0.69
1:N:586:ILE:CD1	1:N:595:ILE:HD12	2.23	0.69
1:O:586:ILE:CD1	1:O:595:ILE:HD12	2.23	0.69
1:A:410:ALA:HB2	1:O:552:VAL:HG12	1.73	0.69
1:A:552:VAL:HG22	1:A:565:PHE:CB	2.20	0.69
1:B:517:ARG:HD2	1:C:456:VAL:HG12	1.73	0.69
1:C:138:ILE:HG22	1:C:139:ILE:N	2.06	0.69
1:C:202:LYS:N	1:C:215:SER:O	2.26	0.69
1:G:173:ASN:HB3	1:G:235:MET:SD	2.33	0.69
1:G:258:LEU:HB3	1:G:285:ILE:HD13	1.73	0.69
1:G:586:ILE:CD1	1:G:595:ILE:HD12	2.23	0.69
1:K:202:LYS:N	1:K:215:SER:O	2.26	0.69
1:K:223:ARG:HE	1:K:226:ARG:HH22	1.39	0.69
1:M:258:LEU:HD11	1:M:310:ILE:HG12	1.75	0.69
1:N:138:ILE:HG22	1:N:139:ILE:N	2.06	0.69
1:N:313:LEU:HD11	1:O:295:VAL:HG21	1.74	0.69
1:A:223:ARG:HE	1:A:226:ARG:HH22	1.39	0.69
1:A:295:VAL:HG21	1:O:313:LEU:HD11	1.75	0.69
1:B:223:ARG:HE	1:B:226:ARG:NH2	1.91	0.69
1:B:480:VAL:HG23	1:B:480:VAL:O	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:596:THR:HG23	1:B:597:GLN:H	1.57	0.69
1:C:171:LEU:HD11	1:C:212:ILE:HB	1.75	0.69
1:C:552:VAL:HG12	1:D:410:ALA:HB2	1.73	0.69
1:F:202:LYS:N	1:F:215:SER:O	2.26	0.69
1:F:258:LEU:HB3	1:F:285:ILE:HD13	1.74	0.69
1:F:258:LEU:HD11	1:F:310:ILE:HG12	1.75	0.69
1:G:258:LEU:HD11	1:G:310:ILE:HG12	1.75	0.69
1:H:138:ILE:CG2	1:H:139:ILE:H	2.06	0.69
1:H:218:PRO:HA	1:H:221:ARG:HB2	1.75	0.69
1:K:258:LEU:HB3	1:K:285:ILE:HD13	1.74	0.69
1:L:258:LEU:HD11	1:L:310:ILE:HG12	1.75	0.69
1:M:202:LYS:N	1:M:215:SER:O	2.26	0.69
1:M:313:LEU:HD11	1:N:295:VAL:HG21	1.75	0.69
1:N:258:LEU:HD11	1:N:310:ILE:HG12	1.75	0.69
1:O:218:PRO:HA	1:O:221:ARG:HB2	1.75	0.69
1:O:258:LEU:HD11	1:O:310:ILE:HG12	1.75	0.69
1:A:169:VAL:CG2	1:A:228:ILE:HD13	2.23	0.68
1:A:202:LYS:N	1:A:215:SER:O	2.26	0.68
1:C:333:ASP:OD2	1:E:618:MET:HE3	1.92	0.68
1:D:586:ILE:CD1	1:D:595:ILE:HD12	2.23	0.68
1:E:138:ILE:HG22	1:E:139:ILE:N	2.06	0.68
1:E:258:LEU:HD11	1:E:310:ILE:HG12	1.75	0.68
1:I:138:ILE:CG2	1:I:139:ILE:H	2.06	0.68
1:J:138:ILE:HG22	1:J:139:ILE:N	2.06	0.68
1:L:138:ILE:HG22	1:L:139:ILE:N	2.06	0.68
1:L:313:LEU:HD11	1:M:295:VAL:HG21	1.75	0.68
1:M:223:ARG:HE	1:M:226:ARG:HH22	1.38	0.68
1:O:101:THR:CG2	1:O:141:ILE:O	2.39	0.68
1:A:258:LEU:HD11	1:A:310:ILE:HG12	1.75	0.68
1:A:552:VAL:HG12	1:B:410:ALA:HB2	1.73	0.68
1:B:455:GLU:OE2	1:B:477:ARG:HB3	1.94	0.68
1:E:138:ILE:CG2	1:E:139:ILE:H	2.06	0.68
1:E:176:ALA:CB	1:E:205:ALA:CB	2.70	0.68
1:E:202:LYS:N	1:E:215:SER:O	2.26	0.68
1:F:101:THR:CG2	1:F:141:ILE:O	2.39	0.68
1:G:202:LYS:N	1:G:215:SER:O	2.26	0.68
1:G:218:PRO:HA	1:G:221:ARG:HB2	1.75	0.68
1:H:586:ILE:CD1	1:H:595:ILE:HD12	2.23	0.68
1:K:258:LEU:HD11	1:K:310:ILE:HG12	1.75	0.68
1:N:219:LYS:NZ	1:O:105:ALA:HB2	2.08	0.68
1:O:173:ASN:HB3	1:O:235:MET:SD	2.33	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:171:LEU:HD11	1:B:212:ILE:HB	1.76	0.68
1:B:202:LYS:N	1:B:215:SER:O	2.26	0.68
1:B:552:VAL:HG12	1:C:410:ALA:HB2	1.73	0.68
1:F:219:LYS:NZ	1:G:105:ALA:HB2	2.08	0.68
1:G:552:VAL:HG22	1:G:565:PHE:CB	2.20	0.68
1:J:176:ALA:CB	1:J:205:ALA:CB	2.70	0.68
1:K:173:ASN:HB3	1:K:235:MET:SD	2.33	0.68
1:K:517:ARG:HD2	1:L:456:VAL:HG12	1.74	0.68
1:N:171:LEU:HD11	1:N:212:ILE:HB	1.76	0.68
1:N:480:VAL:HG23	1:N:480:VAL:O	1.93	0.68
1:A:106:VAL:HG21	1:A:158:VAL:CG1	2.18	0.68
1:A:219:LYS:NZ	1:B:105:ALA:HB2	2.09	0.68
1:A:365:GLY:CA	1:A:399:THR:HG23	2.17	0.68
1:E:455:GLU:OE2	1:E:477:ARG:HB3	1.94	0.68
1:F:171:LEU:HD11	1:F:212:ILE:HB	1.76	0.68
1:G:219:LYS:NZ	1:H:105:ALA:HB2	2.08	0.68
1:H:602:TYR:CE1	1:I:635:HIS:CD2	2.81	0.68
1:J:517:ARG:HD2	1:K:456:VAL:HG12	1.74	0.68
1:L:176:ALA:CB	1:L:205:ALA:CB	2.70	0.68
1:M:218:PRO:HA	1:M:221:ARG:HB2	1.75	0.68
1:M:586:ILE:CD1	1:M:595:ILE:HD12	2.23	0.68
1:O:171:LEU:HD11	1:O:212:ILE:HB	1.76	0.68
1:A:523:LEU:HD13	1:B:450:PHE:HD1	1.57	0.68
1:A:596:THR:HG23	1:A:597:GLN:H	1.57	0.68
1:B:106:VAL:HG21	1:B:158:VAL:CG1	2.18	0.68
1:B:254:LEU:HD23	1:B:294:LEU:HD21	1.76	0.68
1:C:173:ASN:HB3	1:C:235:MET:SD	2.33	0.68
1:D:202:LYS:N	1:D:215:SER:O	2.26	0.68
1:D:219:LYS:NZ	1:E:105:ALA:HB2	2.07	0.68
1:D:258:LEU:HD11	1:D:310:ILE:HG12	1.75	0.68
1:D:480:VAL:O	1:D:480:VAL:HG23	1.93	0.68
1:F:455:GLU:OE2	1:F:477:ARG:HB3	1.94	0.68
1:F:517:ARG:HD2	1:G:456:VAL:HG12	1.74	0.68
1:G:106:VAL:HG21	1:G:158:VAL:CG1	2.18	0.68
1:G:138:ILE:CG2	1:G:139:ILE:H	2.06	0.68
1:G:169:VAL:CG2	1:G:228:ILE:HD13	2.22	0.68
1:G:171:LEU:HD11	1:G:212:ILE:HB	1.76	0.68
1:G:517:ARG:HD2	1:H:456:VAL:HG12	1.73	0.68
1:H:202:LYS:N	1:H:215:SER:O	2.26	0.68
1:I:202:LYS:N	1:I:215:SER:O	2.27	0.68
1:M:455:GLU:OE2	1:M:477:ARG:HB3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:455:GLU:OE2	1:N:477:ARG:HB3	1.94	0.68
1:O:202:LYS:N	1:O:215:SER:O	2.26	0.68
1:O:455:GLU:OE2	1:O:477:ARG:HB3	1.94	0.68
1:A:173:ASN:HB3	1:A:235:MET:SD	2.33	0.68
1:A:455:GLU:OE2	1:A:477:ARG:HB3	1.94	0.68
1:C:223:ARG:HE	1:C:226:ARG:NH2	1.91	0.68
1:D:171:LEU:HD11	1:D:212:ILE:HB	1.76	0.68
1:H:455:GLU:OE2	1:H:477:ARG:HB3	1.94	0.68
1:I:218:PRO:HA	1:I:221:ARG:HB2	1.75	0.68
1:I:258:LEU:HD11	1:I:310:ILE:HG12	1.76	0.68
1:I:455:GLU:OE2	1:I:477:ARG:HB3	1.94	0.68
1:J:258:LEU:HD11	1:J:310:ILE:HG12	1.75	0.68
1:L:455:GLU:OE2	1:L:477:ARG:HB3	1.94	0.68
1:O:169:VAL:CG2	1:O:228:ILE:HD13	2.23	0.68
1:A:171:LEU:HD11	1:A:212:ILE:HB	1.76	0.68
1:C:254:LEU:HD23	1:C:294:LEU:HD21	1.76	0.68
1:D:254:LEU:HD23	1:D:294:LEU:HD21	1.76	0.68
1:I:106:VAL:HG21	1:I:158:VAL:CG1	2.18	0.68
1:K:455:GLU:OE2	1:K:477:ARG:HB3	1.94	0.68
1:N:169:VAL:CG2	1:N:228:ILE:HD13	2.22	0.68
1:N:254:LEU:HD23	1:N:294:LEU:HD21	1.76	0.68
1:N:369:ALA:CB	1:N:397:TYR:CD1	2.76	0.68
1:A:456:VAL:HG12	1:O:517:ARG:HD2	1.74	0.68
1:E:171:LEU:HD11	1:E:212:ILE:HB	1.76	0.68
1:E:586:ILE:CD1	1:E:595:ILE:HD12	2.23	0.68
1:F:138:ILE:CG2	1:F:139:ILE:H	2.06	0.68
1:H:173:ASN:HB3	1:H:235:MET:SD	2.33	0.68
1:H:258:LEU:HB3	1:H:285:ILE:HD13	1.73	0.68
1:H:369:ALA:HB1	1:H:397:TYR:HD1	1.52	0.68
1:H:523:LEU:HD11	1:I:440:ILE:HD11	1.68	0.68
1:I:258:LEU:HB3	1:I:285:ILE:HD13	1.73	0.68
1:J:101:THR:CG2	1:J:141:ILE:O	2.40	0.68
1:N:202:LYS:N	1:N:215:SER:O	2.26	0.68
1:N:456:VAL:HG23	1:N:518:PHE:HZ	1.59	0.68
1:A:254:LEU:HD23	1:A:294:LEU:HD21	1.76	0.68
1:B:223:ARG:HE	1:B:226:ARG:HH22	1.42	0.68
1:C:258:LEU:HD11	1:C:310:ILE:HG12	1.75	0.68
1:C:455:GLU:OE2	1:C:477:ARG:HB3	1.94	0.68
1:E:523:LEU:HD11	1:F:440:ILE:HD11	1.68	0.68
1:E:602:TYR:CE1	1:F:635:HIS:CD2	2.81	0.68
1:G:258:LEU:CD1	1:G:310:ILE:HD11	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:456:VAL:HG21	1:G:518:PHE:HE1	1.59	0.68
1:K:218:PRO:HA	1:K:221:ARG:HB2	1.75	0.68
1:L:202:LYS:N	1:L:215:SER:O	2.27	0.68
1:O:106:VAL:HG21	1:O:158:VAL:CG1	2.17	0.68
1:O:254:LEU:HD23	1:O:294:LEU:HD21	1.76	0.68
1:O:351:GLN:NE2	1:O:358:PRO:HB2	2.09	0.68
1:O:480:VAL:O	1:O:480:VAL:HG23	1.93	0.68
1:A:480:VAL:HG23	1:A:480:VAL:O	1.94	0.68
1:B:258:LEU:HD11	1:B:310:ILE:HG12	1.75	0.68
1:C:204:VAL:O	1:C:212:ILE:HD12	1.94	0.68
1:D:204:VAL:O	1:D:212:ILE:HD12	1.94	0.68
1:E:254:LEU:HD23	1:E:294:LEU:HD21	1.76	0.68
1:F:456:VAL:HG21	1:F:518:PHE:HE1	1.59	0.68
1:G:351:GLN:NE2	1:G:358:PRO:HB2	2.09	0.68
1:H:206:ASP:O	1:H:210:ASN:N	2.27	0.68
1:I:602:TYR:CE1	1:J:635:HIS:CD2	2.82	0.68
1:J:258:LEU:HB3	1:J:285:ILE:HD13	1.74	0.68
1:J:455:GLU:OE2	1:J:477:ARG:HB3	1.94	0.68
1:M:176:ALA:CB	1:M:205:ALA:CB	2.70	0.68
1:M:602:TYR:CE1	1:N:635:HIS:CD2	2.82	0.68
1:N:552:VAL:HG22	1:N:565:PHE:CB	2.20	0.68
1:E:204:VAL:O	1:E:212:ILE:HD12	1.94	0.67
1:F:254:LEU:HD23	1:F:294:LEU:HD21	1.76	0.67
1:G:554:LEU:HD12	1:G:557:ASP:OD2	1.95	0.67
1:J:218:PRO:HA	1:J:221:ARG:HB2	1.75	0.67
1:K:602:TYR:CE1	1:L:635:HIS:CD2	2.83	0.67
1:L:369:ALA:HB1	1:L:397:TYR:HD1	1.52	0.67
1:N:206:ASP:O	1:N:210:ASN:N	2.28	0.67
1:O:206:ASP:O	1:O:210:ASN:N	2.27	0.67
1:A:212:ILE:HG21	1:A:228:ILE:HG12	1.77	0.67
1:A:602:TYR:CE1	1:B:635:HIS:CD2	2.82	0.67
1:B:219:LYS:NZ	1:C:105:ALA:HB2	2.09	0.67
1:D:517:ARG:HD2	1:E:456:VAL:HG12	1.74	0.67
1:F:480:VAL:HG23	1:F:480:VAL:O	1.94	0.67
1:G:206:ASP:O	1:G:210:ASN:N	2.27	0.67
1:G:480:VAL:O	1:G:480:VAL:HG23	1.94	0.67
1:H:171:LEU:HD11	1:H:212:ILE:HB	1.76	0.67
1:I:586:ILE:CD1	1:I:595:ILE:HD12	2.23	0.67
1:J:138:ILE:CG2	1:J:139:ILE:H	2.07	0.67
1:K:554:LEU:HD12	1:K:557:ASP:OD2	1.95	0.67
1:L:218:PRO:HA	1:L:221:ARG:HB2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:254:LEU:HD23	1:M:294:LEU:HD21	1.76	0.67
1:N:442:VAL:CG1	1:N:488:PRO:CG	2.70	0.67
1:B:204:VAL:O	1:B:212:ILE:HD12	1.95	0.67
1:B:212:ILE:HG21	1:B:228:ILE:HG12	1.77	0.67
1:D:455:GLU:OE2	1:D:477:ARG:HB3	1.94	0.67
1:F:212:ILE:HG21	1:F:228:ILE:HG12	1.77	0.67
1:F:258:LEU:CD1	1:F:310:ILE:HD11	2.25	0.67
1:G:223:ARG:HE	1:G:226:ARG:HH22	1.40	0.67
1:H:480:VAL:HG23	1:H:480:VAL:O	1.94	0.67
1:I:171:LEU:HD11	1:I:212:ILE:HB	1.76	0.67
1:I:206:ASP:O	1:I:210:ASN:N	2.28	0.67
1:I:517:ARG:HD2	1:J:456:VAL:HG12	1.74	0.67
1:K:171:LEU:HD11	1:K:212:ILE:HB	1.76	0.67
1:L:517:ARG:HD2	1:M:456:VAL:HG12	1.74	0.67
1:M:510:ALA:CB	1:M:515:ASP:O	2.42	0.67
1:O:596:THR:HG23	1:O:597:GLN:H	1.57	0.67
1:A:351:GLN:NE2	1:A:358:PRO:HB2	2.10	0.67
1:A:510:ALA:CB	1:A:515:ASP:O	2.42	0.67
1:C:106:VAL:HG21	1:C:158:VAL:CG1	2.18	0.67
1:C:258:LEU:CD1	1:C:310:ILE:HD11	2.24	0.67
1:D:258:LEU:CD1	1:D:310:ILE:HD11	2.25	0.67
1:D:351:GLN:NE2	1:D:358:PRO:HB2	2.10	0.67
1:D:602:TYR:CE1	1:E:635:HIS:CD2	2.82	0.67
1:G:212:ILE:HG21	1:G:228:ILE:HG12	1.77	0.67
1:H:258:LEU:CD1	1:H:310:ILE:HD11	2.24	0.67
1:I:510:ALA:CB	1:I:515:ASP:O	2.43	0.67
1:K:176:ALA:CB	1:K:205:ALA:CB	2.70	0.67
1:L:171:LEU:HD11	1:L:212:ILE:HB	1.76	0.67
1:M:171:LEU:HD11	1:M:212:ILE:HB	1.76	0.67
1:M:206:ASP:O	1:M:210:ASN:N	2.28	0.67
1:M:401:ALA:O	1:M:405:ALA:HB2	1.95	0.67
1:M:442:VAL:CG1	1:M:488:PRO:CG	2.71	0.67
1:B:554:LEU:HD12	1:B:557:ASP:OD2	1.95	0.67
1:C:206:ASP:O	1:C:210:ASN:N	2.28	0.67
1:D:206:ASP:O	1:D:210:ASN:N	2.27	0.67
1:D:554:LEU:HD12	1:D:557:ASP:OD2	1.95	0.67
1:E:456:VAL:HG21	1:E:518:PHE:HE1	1.59	0.67
1:F:176:ALA:CB	1:F:205:ALA:CB	2.70	0.67
1:F:204:VAL:O	1:F:212:ILE:HD12	1.95	0.67
1:F:586:ILE:CD1	1:F:595:ILE:HD12	2.23	0.67
1:H:212:ILE:HG21	1:H:228:ILE:HG12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:351:GLN:NE2	1:I:358:PRO:HB2	2.09	0.67
1:J:456:VAL:HG23	1:J:518:PHE:HZ	1.59	0.67
1:L:456:VAL:HG23	1:L:518:PHE:CZ	2.30	0.67
1:L:586:ILE:CD1	1:L:595:ILE:HD12	2.23	0.67
1:M:554:LEU:HD12	1:M:557:ASP:OD2	1.95	0.67
1:N:204:VAL:O	1:N:212:ILE:HD12	1.94	0.67
1:N:212:ILE:HG21	1:N:228:ILE:HG12	1.77	0.67
1:N:456:VAL:HG23	1:N:518:PHE:CZ	2.29	0.67
1:O:212:ILE:HG21	1:O:228:ILE:HG12	1.77	0.67
1:A:101:THR:CG2	1:A:141:ILE:O	2.40	0.67
1:B:456:VAL:HG23	1:B:518:PHE:HZ	1.60	0.67
1:E:258:LEU:CD1	1:E:310:ILE:HD11	2.25	0.67
1:E:554:LEU:HD12	1:E:557:ASP:OD2	1.95	0.67
1:F:223:ARG:HE	1:F:226:ARG:NH2	1.92	0.67
1:F:351:GLN:NE2	1:F:358:PRO:HB2	2.10	0.67
1:G:490:ILE:HG12	1:G:496:VAL:HG22	1.77	0.67
1:J:171:LEU:HD11	1:J:212:ILE:HB	1.76	0.67
1:J:401:ALA:O	1:J:405:ALA:HB2	1.95	0.67
1:J:523:LEU:HD11	1:K:440:ILE:HD11	1.68	0.67
1:M:169:VAL:CG2	1:M:228:ILE:HD13	2.23	0.67
1:M:258:LEU:CD1	1:M:310:ILE:HD11	2.25	0.67
1:N:258:LEU:CD1	1:N:310:ILE:HD11	2.25	0.67
1:N:351:GLN:NE2	1:N:358:PRO:HB2	2.10	0.67
1:N:554:LEU:HD12	1:N:557:ASP:OD2	1.95	0.67
1:A:169:VAL:O	1:A:212:ILE:HG22	1.95	0.67
1:A:204:VAL:O	1:A:212:ILE:HD12	1.95	0.67
1:A:456:VAL:HG23	1:A:518:PHE:CZ	2.30	0.67
1:A:635:HIS:CD2	1:O:602:TYR:CE1	2.83	0.67
1:B:351:GLN:NE2	1:B:358:PRO:HB2	2.10	0.67
1:B:442:VAL:CG1	1:B:488:PRO:CG	2.70	0.67
1:C:212:ILE:HG21	1:C:228:ILE:HG12	1.77	0.67
1:D:510:ALA:CB	1:D:515:ASP:O	2.43	0.67
1:E:212:ILE:HG21	1:E:228:ILE:HG12	1.77	0.67
1:E:510:ALA:CB	1:E:515:ASP:O	2.43	0.67
1:F:169:VAL:CG2	1:F:228:ILE:HD13	2.23	0.67
1:F:225:LYS:HA	1:F:228:ILE:HD12	1.77	0.67
1:F:369:ALA:CB	1:F:397:TYR:CD1	2.76	0.67
1:H:351:GLN:NE2	1:H:358:PRO:HB2	2.10	0.67
1:I:554:LEU:HD12	1:I:557:ASP:OD2	1.95	0.67
1:J:212:ILE:HG21	1:J:228:ILE:HG12	1.76	0.67
1:J:510:ALA:CB	1:J:515:ASP:O	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:225:LYS:HA	1:K:228:ILE:HD12	1.77	0.67
1:K:258:LEU:CD1	1:K:310:ILE:HD11	2.24	0.67
1:K:456:VAL:HG23	1:K:518:PHE:CZ	2.29	0.67
1:L:206:ASP:O	1:L:210:ASN:N	2.27	0.67
1:M:480:VAL:HG23	1:M:480:VAL:O	1.93	0.67
1:N:510:ALA:O	1:N:511:ASN:C	2.33	0.67
1:O:365:GLY:CA	1:O:399:THR:HG23	2.17	0.67
1:O:442:VAL:CG1	1:O:488:PRO:CG	2.70	0.67
1:O:456:VAL:HG23	1:O:518:PHE:CZ	2.29	0.67
1:B:552:VAL:HG22	1:B:565:PHE:CB	2.20	0.67
1:C:401:ALA:O	1:C:405:ALA:HB2	1.95	0.67
1:E:206:ASP:O	1:E:210:ASN:N	2.28	0.67
1:E:401:ALA:O	1:E:405:ALA:HB2	1.95	0.67
1:E:490:ILE:HG12	1:E:496:VAL:HG22	1.77	0.67
1:F:510:ALA:CB	1:F:515:ASP:O	2.43	0.67
1:G:204:VAL:O	1:G:212:ILE:HD12	1.94	0.67
1:H:456:VAL:HG21	1:H:518:PHE:HE1	1.59	0.67
1:I:212:ILE:HG21	1:I:228:ILE:HG12	1.77	0.67
1:J:225:LYS:HA	1:J:228:ILE:HD12	1.76	0.67
1:J:369:ALA:HB1	1:J:397:TYR:HD1	1.52	0.67
1:L:254:LEU:HD23	1:L:294:LEU:HD21	1.76	0.67
1:L:258:LEU:CD1	1:L:310:ILE:HD11	2.25	0.67
1:O:169:VAL:O	1:O:212:ILE:HG22	1.95	0.67
1:O:258:LEU:CD1	1:O:310:ILE:HD11	2.25	0.67
1:O:510:ALA:CB	1:O:515:ASP:O	2.43	0.67
1:O:552:VAL:HG23	1:O:555:LEU:HB2	1.77	0.67
1:A:554:LEU:HD12	1:A:557:ASP:OD2	1.95	0.67
1:B:206:ASP:O	1:B:210:ASN:N	2.27	0.67
1:B:456:VAL:HG23	1:B:518:PHE:CZ	2.30	0.67
1:C:456:VAL:HG23	1:C:518:PHE:HZ	1.60	0.67
1:F:206:ASP:O	1:F:210:ASN:N	2.28	0.67
1:G:225:LYS:HA	1:G:228:ILE:HD12	1.77	0.67
1:G:510:ALA:CB	1:G:515:ASP:O	2.43	0.67
1:I:401:ALA:O	1:I:405:ALA:HB2	1.95	0.67
1:I:480:VAL:HG23	1:I:480:VAL:O	1.93	0.67
1:I:490:ILE:HG12	1:I:496:VAL:HG22	1.77	0.67
1:K:510:ALA:O	1:K:511:ASN:C	2.34	0.67
1:L:225:LYS:HA	1:L:228:ILE:HD12	1.77	0.67
1:L:442:VAL:CG1	1:L:488:PRO:CG	2.70	0.67
1:L:456:VAL:HG23	1:L:518:PHE:HZ	1.60	0.67
1:M:212:ILE:HG21	1:M:228:ILE:HG12	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:456:VAL:HG23	1:M:518:PHE:CZ	2.30	0.67
1:O:456:VAL:HG23	1:O:518:PHE:HZ	1.60	0.67
1:O:510:ALA:O	1:O:511:ASN:C	2.33	0.67
1:A:206:ASP:O	1:A:210:ASN:N	2.28	0.67
1:A:207:GLU:HA	1:A:210:ASN:OD1	1.95	0.67
1:A:552:VAL:HG23	1:A:555:LEU:HB2	1.77	0.67
1:C:602:TYR:CE1	1:D:635:HIS:CD2	2.83	0.67
1:G:455:GLU:OE2	1:G:477:ARG:HB3	1.94	0.67
1:H:169:VAL:O	1:H:212:ILE:HG22	1.95	0.67
1:J:510:ALA:O	1:J:511:ASN:C	2.34	0.67
1:K:456:VAL:HG23	1:K:518:PHE:HZ	1.60	0.67
1:M:351:GLN:NE2	1:M:358:PRO:HB2	2.10	0.67
1:N:106:VAL:HG21	1:N:158:VAL:CG1	2.17	0.67
1:B:169:VAL:O	1:B:212:ILE:HG22	1.95	0.66
1:G:254:LEU:HD23	1:G:294:LEU:HD21	1.76	0.66
1:G:602:TYR:CE1	1:H:635:HIS:CD2	2.82	0.66
1:H:456:VAL:HG23	1:H:518:PHE:HZ	1.60	0.66
1:I:258:LEU:CD1	1:I:310:ILE:HD11	2.25	0.66
1:J:206:ASP:O	1:J:210:ASN:N	2.27	0.66
1:J:480:VAL:HG23	1:J:480:VAL:O	1.93	0.66
1:K:206:ASP:O	1:K:210:ASN:N	2.27	0.66
1:K:254:LEU:HD23	1:K:294:LEU:HD21	1.76	0.66
1:L:207:GLU:HA	1:L:210:ASN:OD1	1.95	0.66
1:L:510:ALA:O	1:L:511:ASN:C	2.34	0.66
1:M:106:VAL:HG21	1:M:158:VAL:CG1	2.18	0.66
1:N:401:ALA:O	1:N:405:ALA:HB2	1.95	0.66
1:N:596:THR:HG23	1:N:597:GLN:H	1.57	0.66
1:O:204:VAL:O	1:O:212:ILE:HD12	1.95	0.66
1:O:554:LEU:HD12	1:O:557:ASP:OD2	1.95	0.66
1:A:456:VAL:HG23	1:A:518:PHE:HZ	1.61	0.66
1:C:320:VAL:HG21	1:C:488:PRO:HB2	1.77	0.66
1:C:510:ALA:O	1:C:511:ASN:C	2.33	0.66
1:D:456:VAL:HG21	1:D:518:PHE:HE1	1.59	0.66
1:D:456:VAL:HG23	1:D:518:PHE:CZ	2.30	0.66
1:E:207:GLU:HA	1:E:210:ASN:OD1	1.96	0.66
1:E:351:GLN:NE2	1:E:358:PRO:HB2	2.10	0.66
1:E:480:VAL:HG23	1:E:480:VAL:O	1.94	0.66
1:F:320:VAL:HG21	1:F:488:PRO:HB2	1.77	0.66
1:F:456:VAL:HG23	1:F:518:PHE:CZ	2.29	0.66
1:H:207:GLU:HA	1:H:210:ASN:OD1	1.95	0.66
1:H:410:ALA:O	1:H:424:SER:HA	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:410:ALA:O	1:I:424:SER:HA	1.96	0.66
1:I:456:VAL:HG23	1:I:518:PHE:HZ	1.61	0.66
1:J:169:VAL:O	1:J:212:ILE:HG22	1.95	0.66
1:J:219:LYS:NZ	1:K:105:ALA:HB2	2.09	0.66
1:J:524:ASN:OD1	1:J:524:ASN:O	2.13	0.66
1:J:602:TYR:CE1	1:K:635:HIS:CD2	2.83	0.66
1:K:169:VAL:O	1:K:212:ILE:HG22	1.95	0.66
1:L:351:GLN:NE2	1:L:358:PRO:HB2	2.10	0.66
1:L:401:ALA:O	1:L:405:ALA:HB2	1.95	0.66
1:M:225:LYS:HA	1:M:228:ILE:HD12	1.77	0.66
1:N:510:ALA:CB	1:N:515:ASP:O	2.43	0.66
1:O:369:ALA:CB	1:O:397:TYR:CD1	2.76	0.66
1:B:101:THR:CG2	1:B:141:ILE:O	2.39	0.66
1:B:258:LEU:CD1	1:B:310:ILE:HD11	2.25	0.66
1:B:510:ALA:CB	1:B:515:ASP:O	2.43	0.66
1:C:410:ALA:O	1:C:424:SER:HA	1.96	0.66
1:C:456:VAL:HG23	1:C:518:PHE:CZ	2.29	0.66
1:D:552:VAL:HG23	1:D:555:LEU:HB2	1.77	0.66
1:E:225:LYS:HA	1:E:228:ILE:HD12	1.77	0.66
1:G:456:VAL:HG23	1:G:518:PHE:HZ	1.60	0.66
1:I:456:VAL:HG23	1:I:518:PHE:CZ	2.30	0.66
1:I:524:ASN:O	1:I:524:ASN:OD1	2.13	0.66
1:K:510:ALA:CB	1:K:515:ASP:O	2.43	0.66
1:L:169:VAL:CG2	1:L:228:ILE:HD13	2.22	0.66
1:L:480:VAL:O	1:L:480:VAL:HG23	1.94	0.66
1:N:138:ILE:CG2	1:N:139:ILE:H	2.06	0.66
1:N:602:TYR:CE1	1:O:635:HIS:CD2	2.83	0.66
1:B:207:GLU:HA	1:B:210:ASN:OD1	1.96	0.66
1:B:320:VAL:HG21	1:B:488:PRO:HB2	1.77	0.66
1:C:351:GLN:NE2	1:C:358:PRO:HB2	2.10	0.66
1:C:552:VAL:HG23	1:C:555:LEU:HB2	1.77	0.66
1:C:554:LEU:HD12	1:C:557:ASP:OD2	1.95	0.66
1:D:212:ILE:HG21	1:D:228:ILE:HG12	1.77	0.66
1:E:456:VAL:HG23	1:E:518:PHE:CZ	2.30	0.66
1:H:254:LEU:HD23	1:H:294:LEU:HD21	1.76	0.66
1:I:369:ALA:CB	1:I:397:TYR:CD1	2.76	0.66
1:I:521:ARG:NH1	1:I:577:LEU:HD12	2.11	0.66
1:J:351:GLN:NE2	1:J:358:PRO:HB2	2.10	0.66
1:J:369:ALA:CB	1:J:397:TYR:CD1	2.76	0.66
1:J:410:ALA:O	1:J:424:SER:HA	1.96	0.66
1:K:101:THR:CG2	1:K:141:ILE:O	2.39	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:410:ALA:O	1:K:424:SER:HA	1.96	0.66
1:L:410:ALA:O	1:L:424:SER:HA	1.96	0.66
1:L:510:ALA:CB	1:L:515:ASP:O	2.43	0.66
1:M:204:VAL:O	1:M:212:ILE:HD12	1.95	0.66
1:N:169:VAL:O	1:N:212:ILE:HG22	1.95	0.66
1:N:552:VAL:HG23	1:N:555:LEU:HB2	1.77	0.66
1:B:602:TYR:CE1	1:C:635:HIS:CD2	2.82	0.66
1:C:490:ILE:HG12	1:C:496:VAL:HG22	1.76	0.66
1:D:456:VAL:HG23	1:D:518:PHE:HZ	1.60	0.66
1:E:320:VAL:HG21	1:E:488:PRO:HB2	1.77	0.66
1:F:169:VAL:O	1:F:212:ILE:HG22	1.95	0.66
1:F:602:TYR:CE1	1:G:635:HIS:CD2	2.83	0.66
1:G:101:THR:CG2	1:G:141:ILE:O	2.39	0.66
1:G:410:ALA:O	1:G:424:SER:HA	1.96	0.66
1:H:204:VAL:O	1:H:212:ILE:HD12	1.95	0.66
1:H:456:VAL:HG23	1:H:518:PHE:CZ	2.30	0.66
1:I:207:GLU:HA	1:I:210:ASN:OD1	1.96	0.66
1:I:254:LEU:HD23	1:I:294:LEU:HD21	1.76	0.66
1:I:510:ALA:O	1:I:511:ASN:C	2.34	0.66
1:L:552:VAL:HG23	1:L:555:LEU:HB2	1.77	0.66
1:N:223:ARG:HE	1:N:226:ARG:NH2	1.93	0.66
1:O:207:GLU:HA	1:O:210:ASN:OD1	1.96	0.66
1:A:442:VAL:CG1	1:A:488:PRO:CG	2.70	0.66
1:B:138:ILE:CG2	1:B:139:ILE:H	2.07	0.66
1:C:112:ARG:HD3	1:C:133:TYR:CZ	2.31	0.66
1:C:207:GLU:HA	1:C:210:ASN:OD1	1.96	0.66
1:D:204:VAL:CG1	1:D:205:ALA:N	2.59	0.66
1:D:207:GLU:HA	1:D:210:ASN:OD1	1.96	0.66
1:D:410:ALA:O	1:D:424:SER:HA	1.96	0.66
1:F:554:LEU:HD12	1:F:557:ASP:OD2	1.95	0.66
1:H:225:LYS:HA	1:H:228:ILE:HD12	1.77	0.66
1:H:490:ILE:HG12	1:H:496:VAL:HG22	1.77	0.66
1:H:524:ASN:OD1	1:H:524:ASN:O	2.14	0.66
1:H:596:THR:HG23	1:H:597:GLN:H	1.57	0.66
1:I:169:VAL:O	1:I:212:ILE:HG22	1.95	0.66
1:J:521:ARG:NH1	1:J:577:LEU:HD12	2.11	0.66
1:J:554:LEU:HD12	1:J:557:ASP:OD2	1.95	0.66
1:K:138:ILE:CG2	1:K:139:ILE:H	2.06	0.66
1:K:351:GLN:NE2	1:K:358:PRO:HB2	2.09	0.66
1:K:401:ALA:O	1:K:405:ALA:HB2	1.95	0.66
1:K:490:ILE:HG12	1:K:496:VAL:HG22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:106:VAL:HG21	1:L:158:VAL:CG1	2.18	0.66
1:L:212:ILE:HG21	1:L:228:ILE:HG12	1.77	0.66
1:M:552:VAL:HG23	1:M:555:LEU:HB2	1.77	0.66
1:N:112:ARG:HD3	1:N:133:TYR:CZ	2.31	0.66
1:O:204:VAL:CG1	1:O:205:ALA:N	2.59	0.66
1:A:138:ILE:CG2	1:A:139:ILE:H	2.07	0.66
1:B:524:ASN:OD1	1:B:524:ASN:O	2.13	0.66
1:C:219:LYS:NZ	1:D:105:ALA:HB2	2.09	0.66
1:D:170:GLU:HA	1:D:211:SER:HA	1.77	0.66
1:D:224:LEU:O	1:D:224:LEU:HG	1.96	0.66
1:E:170:GLU:HA	1:E:211:SER:HA	1.78	0.66
1:G:169:VAL:O	1:G:212:ILE:HG22	1.95	0.66
1:G:320:VAL:HG21	1:G:488:PRO:HB2	1.77	0.66
1:H:521:ARG:NH1	1:H:577:LEU:HD12	2.11	0.66
1:H:554:LEU:HD12	1:H:557:ASP:OD2	1.95	0.66
1:I:553:PRO:HD3	1:J:427:SER:N	2.11	0.66
1:J:254:LEU:HD23	1:J:294:LEU:HD21	1.76	0.66
1:K:204:VAL:CG1	1:K:205:ALA:N	2.59	0.66
1:K:212:ILE:HG21	1:K:228:ILE:HG12	1.77	0.66
1:K:442:VAL:CG1	1:K:488:PRO:CG	2.70	0.66
1:K:521:ARG:NH1	1:K:577:LEU:HD12	2.11	0.66
1:K:586:ILE:CD1	1:K:595:ILE:CD1	2.74	0.66
1:L:169:VAL:O	1:L:212:ILE:HG22	1.95	0.66
1:L:554:LEU:HD12	1:L:557:ASP:OD2	1.95	0.66
1:M:410:ALA:O	1:M:424:SER:HA	1.96	0.66
1:N:365:GLY:CA	1:N:399:THR:HG23	2.17	0.66
1:A:112:ARG:HD3	1:A:133:TYR:CZ	2.31	0.66
1:A:255:VAL:O	1:A:259:LYS:HG2	1.96	0.66
1:A:258:LEU:CD1	1:A:310:ILE:HD11	2.25	0.66
1:B:255:VAL:O	1:B:259:LYS:HG2	1.96	0.66
1:B:552:VAL:HG23	1:B:555:LEU:HB2	1.78	0.66
1:C:204:VAL:CG1	1:C:205:ALA:N	2.59	0.66
1:C:223:ARG:HE	1:C:226:ARG:HH22	1.42	0.66
1:C:524:ASN:OD1	1:C:524:ASN:O	2.13	0.66
1:D:510:ALA:O	1:D:511:ASN:C	2.34	0.66
1:E:169:VAL:O	1:E:212:ILE:HG22	1.95	0.66
1:E:169:VAL:CG2	1:E:228:ILE:HD13	2.22	0.66
1:F:170:GLU:HA	1:F:211:SER:HA	1.78	0.66
1:F:207:GLU:HA	1:F:210:ASN:OD1	1.96	0.66
1:F:521:ARG:NH1	1:F:577:LEU:HD12	2.11	0.66
1:G:401:ALA:O	1:G:405:ALA:HB2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:521:ARG:NH1	1:G:577:LEU:HD12	2.11	0.66
1:H:510:ALA:CB	1:H:515:ASP:O	2.43	0.66
1:H:586:ILE:CD1	1:H:595:ILE:CD1	2.74	0.66
1:I:586:ILE:CD1	1:I:595:ILE:CD1	2.74	0.66
1:J:204:VAL:CG1	1:J:205:ALA:N	2.59	0.66
1:J:258:LEU:CD1	1:J:310:ILE:HD11	2.25	0.66
1:J:456:VAL:HG23	1:J:518:PHE:CZ	2.29	0.66
1:J:586:ILE:CD1	1:J:595:ILE:CD1	2.74	0.66
1:K:207:GLU:HA	1:K:210:ASN:OD1	1.96	0.66
1:K:524:ASN:OD1	1:K:524:ASN:O	2.14	0.66
1:L:524:ASN:O	1:L:524:ASN:OD1	2.14	0.66
1:M:510:ALA:O	1:M:511:ASN:C	2.34	0.66
1:N:225:LYS:HA	1:N:228:ILE:HD12	1.77	0.66
1:N:410:ALA:O	1:N:424:SER:HA	1.96	0.66
1:O:410:ALA:O	1:O:424:SER:HA	1.96	0.66
1:C:369:ALA:CB	1:C:397:TYR:CD1	2.76	0.66
1:C:510:ALA:CB	1:C:515:ASP:O	2.43	0.66
1:D:112:ARG:HD3	1:D:133:TYR:CZ	2.31	0.66
1:F:167:GLU:CG	1:F:214:ILE:HG22	2.26	0.66
1:F:490:ILE:HG12	1:F:496:VAL:HG22	1.77	0.66
1:G:255:VAL:O	1:G:259:LYS:HG2	1.96	0.66
1:G:456:VAL:HG23	1:G:518:PHE:CZ	2.30	0.66
1:G:586:ILE:CD1	1:G:595:ILE:CD1	2.74	0.66
1:H:255:VAL:O	1:H:259:LYS:HG2	1.96	0.66
1:I:204:VAL:CG1	1:I:205:ALA:N	2.59	0.66
1:J:255:VAL:O	1:J:259:LYS:HG2	1.96	0.66
1:L:444:ASP:CG	1:L:490:ILE:CD1	2.61	0.66
1:L:521:ARG:NH1	1:L:577:LEU:HD12	2.11	0.66
1:M:112:ARG:HD3	1:M:133:TYR:CZ	2.31	0.66
1:N:176:ALA:CB	1:N:205:ALA:CB	2.70	0.66
1:O:112:ARG:HD3	1:O:133:TYR:CZ	2.31	0.66
1:A:204:VAL:CG1	1:A:205:ALA:N	2.59	0.66
1:A:375:THR:O	1:B:391:ARG:HA	1.96	0.66
1:A:401:ALA:O	1:A:405:ALA:HB2	1.95	0.66
1:A:521:ARG:NH1	1:A:577:LEU:HD12	2.11	0.66
1:C:170:GLU:HA	1:C:211:SER:HA	1.77	0.66
1:D:106:VAL:HG21	1:D:158:VAL:CG1	2.18	0.66
1:D:320:VAL:HG21	1:D:488:PRO:HB2	1.78	0.66
1:E:224:LEU:HG	1:E:224:LEU:O	1.96	0.66
1:F:608:LEU:CD2	1:F:625:VAL:HG11	2.26	0.66
1:I:204:VAL:O	1:I:212:ILE:HD12	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:255:VAL:O	1:I:259:LYS:HG2	1.96	0.66
1:J:553:PRO:HD3	1:K:427:SER:N	2.11	0.66
1:K:552:VAL:HG23	1:K:555:LEU:HB2	1.77	0.66
1:L:204:VAL:CG1	1:L:205:ALA:N	2.59	0.66
1:M:524:ASN:OD1	1:M:524:ASN:O	2.13	0.66
1:N:207:GLU:HA	1:N:210:ASN:OD1	1.96	0.66
1:N:608:LEU:CD2	1:N:625:VAL:HG11	2.26	0.66
1:A:320:VAL:HG21	1:A:488:PRO:HB2	1.77	0.65
1:A:410:ALA:O	1:A:424:SER:HA	1.96	0.65
1:B:410:ALA:O	1:B:424:SER:HA	1.96	0.65
1:B:510:ALA:O	1:B:511:ASN:C	2.34	0.65
1:D:225:LYS:HA	1:D:228:ILE:HD12	1.77	0.65
1:F:456:VAL:HG23	1:F:518:PHE:HZ	1.60	0.65
1:G:510:ALA:O	1:G:511:ASN:C	2.34	0.65
1:G:524:ASN:OD1	1:G:524:ASN:O	2.14	0.65
1:I:223:ARG:O	1:I:226:ARG:HB3	1.97	0.65
1:J:204:VAL:O	1:J:212:ILE:HD12	1.94	0.65
1:J:490:ILE:HG12	1:J:496:VAL:HG22	1.77	0.65
1:K:170:GLU:HA	1:K:211:SER:HA	1.78	0.65
1:M:207:GLU:HA	1:M:210:ASN:OD1	1.96	0.65
1:N:204:VAL:CG1	1:N:205:ALA:N	2.59	0.65
1:A:224:LEU:O	1:A:224:LEU:HG	1.96	0.65
1:A:510:ALA:O	1:A:511:ASN:C	2.35	0.65
1:B:112:ARG:HD3	1:B:133:TYR:CZ	2.31	0.65
1:C:138:ILE:CG2	1:C:139:ILE:H	2.06	0.65
1:C:169:VAL:O	1:C:212:ILE:HG22	1.95	0.65
1:C:255:VAL:O	1:C:259:LYS:HG2	1.96	0.65
1:C:608:LEU:CD2	1:C:625:VAL:HG11	2.26	0.65
1:E:204:VAL:CG1	1:E:205:ALA:N	2.59	0.65
1:F:510:ALA:O	1:F:511:ASN:C	2.33	0.65
1:F:523:LEU:HD22	1:F:538:GLY:HA3	1.79	0.65
1:G:170:GLU:HA	1:G:211:SER:HA	1.77	0.65
1:G:255:VAL:HG23	1:G:285:ILE:HG22	1.79	0.65
1:G:553:PRO:HD3	1:H:427:SER:N	2.12	0.65
1:H:523:LEU:HD22	1:H:538:GLY:HA3	1.78	0.65
1:I:225:LYS:HA	1:I:228:ILE:HD12	1.77	0.65
1:L:586:ILE:CD1	1:L:595:ILE:CD1	2.74	0.65
1:M:586:ILE:CD1	1:M:595:ILE:CD1	2.74	0.65
1:N:521:ARG:NH1	1:N:577:LEU:HD12	2.11	0.65
1:A:524:ASN:O	1:A:524:ASN:OD1	2.14	0.65
1:B:401:ALA:O	1:B:405:ALA:HB2	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:608:LEU:CD2	1:B:625:VAL:HG11	2.27	0.65
1:D:490:ILE:HG12	1:D:496:VAL:HG22	1.77	0.65
1:D:608:LEU:CD2	1:D:625:VAL:HG11	2.27	0.65
1:E:521:ARG:NH1	1:E:577:LEU:HD12	2.11	0.65
1:F:255:VAL:O	1:F:259:LYS:HG2	1.96	0.65
1:F:410:ALA:O	1:F:424:SER:HA	1.96	0.65
1:F:596:THR:HG23	1:F:597:GLN:H	1.57	0.65
1:G:176:ALA:CB	1:G:205:ALA:CB	2.70	0.65
1:H:552:VAL:HG23	1:H:555:LEU:HB2	1.77	0.65
1:I:456:VAL:HG21	1:I:518:PHE:HE1	1.60	0.65
1:I:523:LEU:HD22	1:I:538:GLY:HA3	1.78	0.65
1:I:596:THR:HG23	1:I:597:GLN:H	1.58	0.65
1:J:170:GLU:HA	1:J:211:SER:HA	1.77	0.65
1:J:223:ARG:O	1:J:226:ARG:HB3	1.97	0.65
1:K:223:ARG:O	1:K:226:ARG:HB3	1.97	0.65
1:K:255:VAL:O	1:K:259:LYS:HG2	1.96	0.65
1:L:170:GLU:HA	1:L:211:SER:HA	1.78	0.65
1:L:223:ARG:O	1:L:226:ARG:HB3	1.97	0.65
1:M:169:VAL:O	1:M:212:ILE:HG22	1.95	0.65
1:M:456:VAL:HG23	1:M:518:PHE:HZ	1.60	0.65
1:A:255:VAL:HG23	1:A:285:ILE:HG22	1.79	0.65
1:C:255:VAL:HG23	1:C:285:ILE:HG22	1.79	0.65
1:D:169:VAL:O	1:D:212:ILE:HG22	1.95	0.65
1:F:223:ARG:HE	1:F:226:ARG:HH22	1.44	0.65
1:F:223:ARG:O	1:F:226:ARG:HB3	1.97	0.65
1:F:524:ASN:O	1:F:524:ASN:OD1	2.13	0.65
1:F:553:PRO:HD3	1:G:427:SER:N	2.11	0.65
1:G:523:LEU:HD22	1:G:538:GLY:HA3	1.79	0.65
1:H:223:ARG:O	1:H:226:ARG:HB3	1.97	0.65
1:H:444:ASP:CG	1:H:490:ILE:CD1	2.61	0.65
1:H:510:ALA:O	1:H:511:ASN:C	2.34	0.65
1:I:320:VAL:HG21	1:I:488:PRO:HB2	1.77	0.65
1:J:112:ARG:HD3	1:J:133:TYR:CZ	2.31	0.65
1:L:204:VAL:O	1:L:212:ILE:HD12	1.95	0.65
1:M:223:ARG:O	1:M:226:ARG:HB3	1.97	0.65
1:M:521:ARG:NH1	1:M:577:LEU:HD12	2.11	0.65
1:N:490:ILE:HG12	1:N:496:VAL:HG22	1.77	0.65
1:O:138:ILE:CG2	1:O:139:ILE:H	2.06	0.65
1:A:490:ILE:HG12	1:A:496:VAL:HG22	1.77	0.65
1:B:225:LYS:HA	1:B:228:ILE:HD12	1.77	0.65
1:B:444:ASP:CG	1:B:490:ILE:CD1	2.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:444:ASP:CG	1:C:490:ILE:CD1	2.61	0.65
1:D:138:ILE:CG2	1:D:139:ILE:H	2.06	0.65
1:D:524:ASN:O	1:D:524:ASN:OD1	2.14	0.65
1:E:112:ARG:HD3	1:E:133:TYR:CZ	2.31	0.65
1:E:255:VAL:HG23	1:E:285:ILE:HG22	1.79	0.65
1:E:552:VAL:HG23	1:E:555:LEU:HB2	1.77	0.65
1:G:112:ARG:HD3	1:G:133:TYR:CZ	2.31	0.65
1:H:401:ALA:O	1:H:405:ALA:HB2	1.95	0.65
1:I:112:ARG:HD3	1:I:133:TYR:CZ	2.31	0.65
1:K:204:VAL:O	1:K:212:ILE:HD12	1.95	0.65
1:K:369:ALA:CB	1:K:397:TYR:CD1	2.76	0.65
1:L:112:ARG:HD3	1:L:133:TYR:CZ	2.31	0.65
1:L:138:ILE:CG2	1:L:139:ILE:H	2.06	0.65
1:N:167:GLU:CG	1:N:214:ILE:HG22	2.26	0.65
1:N:223:ARG:O	1:N:226:ARG:HB3	1.97	0.65
1:O:369:ALA:HB1	1:O:397:TYR:HD1	1.53	0.65
1:A:369:ALA:CB	1:A:397:TYR:CD1	2.76	0.65
1:A:523:LEU:HD22	1:A:538:GLY:HA3	1.78	0.65
1:B:204:VAL:CG1	1:B:205:ALA:N	2.59	0.65
1:C:225:LYS:HA	1:C:228:ILE:HD12	1.77	0.65
1:C:521:ARG:NH1	1:C:577:LEU:HD12	2.11	0.65
1:D:255:VAL:O	1:D:259:LYS:HG2	1.96	0.65
1:E:375:THR:O	1:F:391:ARG:HA	1.97	0.65
1:E:410:ALA:O	1:E:424:SER:HA	1.96	0.65
1:E:608:LEU:CD2	1:E:625:VAL:HG11	2.27	0.65
1:G:596:THR:HG23	1:G:597:GLN:H	1.57	0.65
1:G:608:LEU:CD2	1:G:625:VAL:HG11	2.27	0.65
1:H:171:LEU:CD1	1:H:212:ILE:HB	2.27	0.65
1:H:204:VAL:CG1	1:H:205:ALA:N	2.59	0.65
1:H:369:ALA:CB	1:H:397:TYR:CD1	2.76	0.65
1:J:223:ARG:HE	1:J:226:ARG:NH2	1.93	0.65
1:M:320:VAL:HG21	1:M:488:PRO:HB2	1.77	0.65
1:M:490:ILE:HG12	1:M:496:VAL:HG22	1.77	0.65
1:N:171:LEU:CD1	1:N:212:ILE:HB	2.27	0.65
1:O:401:ALA:O	1:O:405:ALA:HB2	1.95	0.65
1:O:490:ILE:HG12	1:O:496:VAL:HG22	1.77	0.65
1:A:225:LYS:HA	1:A:228:ILE:HD12	1.77	0.65
1:C:224:LEU:HG	1:C:224:LEU:O	1.96	0.65
1:C:456:VAL:HG21	1:C:518:PHE:HE1	1.59	0.65
1:E:167:GLU:CG	1:E:214:ILE:HG22	2.26	0.65
1:F:112:ARG:HD3	1:F:133:TYR:CZ	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:586:ILE:CD1	1:F:595:ILE:CD1	2.74	0.65
1:G:171:LEU:CD1	1:G:212:ILE:HB	2.27	0.65
1:G:207:GLU:HA	1:G:210:ASN:OD1	1.96	0.65
1:G:223:ARG:O	1:G:226:ARG:HB3	1.97	0.65
1:H:320:VAL:HG21	1:H:488:PRO:HB2	1.78	0.65
1:H:553:PRO:HD3	1:I:427:SER:N	2.12	0.65
1:J:608:LEU:CD2	1:J:625:VAL:HG11	2.26	0.65
1:L:255:VAL:O	1:L:259:LYS:HG2	1.96	0.65
1:M:170:GLU:HA	1:M:211:SER:HA	1.77	0.65
1:M:596:THR:HG23	1:M:597:GLN:H	1.57	0.65
1:N:456:VAL:HG21	1:N:518:PHE:HE1	1.59	0.65
1:O:224:LEU:O	1:O:224:LEU:HG	1.96	0.65
1:O:255:VAL:O	1:O:259:LYS:HG2	1.96	0.65
1:O:320:VAL:HG21	1:O:488:PRO:HB2	1.77	0.65
1:A:586:ILE:CD1	1:A:595:ILE:CD1	2.74	0.65
1:B:369:ALA:CB	1:B:397:TYR:CD1	2.76	0.65
1:B:586:ILE:CD1	1:B:595:ILE:CD1	2.74	0.65
1:D:169:VAL:CG2	1:D:228:ILE:HD13	2.23	0.65
1:D:521:ARG:NH1	1:D:577:LEU:HD12	2.11	0.65
1:D:523:LEU:HD22	1:D:538:GLY:HA3	1.79	0.65
1:D:586:ILE:CD1	1:D:595:ILE:CD1	2.74	0.65
1:E:106:VAL:HG21	1:E:158:VAL:CG1	2.18	0.65
1:E:523:LEU:HD22	1:E:538:GLY:HA3	1.79	0.65
1:E:553:PRO:HD3	1:F:427:SER:N	2.11	0.65
1:I:224:LEU:O	1:I:224:LEU:HG	1.96	0.65
1:J:171:LEU:CD1	1:J:212:ILE:HB	2.27	0.65
1:K:320:VAL:HG21	1:K:488:PRO:HB2	1.78	0.65
1:L:171:LEU:CD1	1:L:212:ILE:HB	2.27	0.65
1:L:354:ASN:OD1	1:L:355:THR:HG23	1.97	0.65
1:N:255:VAL:HG23	1:N:285:ILE:HG22	1.79	0.65
1:N:524:ASN:OD1	1:N:524:ASN:O	2.13	0.65
1:O:524:ASN:OD1	1:O:524:ASN:O	2.14	0.65
1:A:262:SER:CB	1:A:283:VAL:HG11	2.27	0.65
1:B:170:GLU:HA	1:B:211:SER:HA	1.78	0.65
1:B:223:ARG:O	1:B:226:ARG:HB3	1.97	0.65
1:B:490:ILE:HG12	1:B:496:VAL:HG22	1.77	0.65
1:E:258:LEU:HD11	1:E:310:ILE:CG1	2.27	0.65
1:E:525:THR:HG22	1:F:448:ALA:HB1	1.79	0.65
1:F:401:ALA:O	1:F:405:ALA:HB2	1.95	0.65
1:J:224:LEU:HG	1:J:224:LEU:O	1.96	0.65
1:J:456:VAL:HG21	1:J:518:PHE:HE1	1.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:552:VAL:HG23	1:J:555:LEU:HB2	1.77	0.65
1:K:169:VAL:CG2	1:K:228:ILE:HD13	2.23	0.65
1:L:319:GLN:O	1:L:586:ILE:N	2.27	0.65
1:M:224:LEU:HG	1:M:224:LEU:O	1.96	0.65
1:M:553:PRO:HD3	1:N:427:SER:N	2.11	0.65
1:N:223:ARG:HE	1:N:226:ARG:HH22	1.45	0.65
1:N:586:ILE:CD1	1:N:595:ILE:CD1	2.74	0.65
1:O:521:ARG:NH1	1:O:577:LEU:HD12	2.11	0.65
1:A:134:ASP:OD2	1:O:161:ALA:HB1	1.97	0.65
1:A:427:SER:N	1:O:553:PRO:HD3	2.11	0.65
1:A:515:ASP:CG	1:A:516:VAL:H	2.00	0.65
1:C:101:THR:CG2	1:C:141:ILE:O	2.39	0.65
1:D:515:ASP:CG	1:D:516:VAL:H	2.00	0.65
1:E:255:VAL:O	1:E:259:LYS:HG2	1.96	0.65
1:E:510:ALA:O	1:E:511:ASN:C	2.34	0.65
1:E:586:ILE:CD1	1:E:595:ILE:CD1	2.74	0.65
1:G:369:ALA:CB	1:G:397:TYR:CD1	2.76	0.65
1:G:476:ASP:OD1	1:G:477:ARG:N	2.30	0.65
1:K:354:ASN:OD1	1:K:355:THR:HG23	1.97	0.65
1:L:224:LEU:O	1:L:224:LEU:HG	1.96	0.65
1:L:320:VAL:HG21	1:L:488:PRO:HB2	1.78	0.65
1:M:171:LEU:CD1	1:M:212:ILE:HB	2.27	0.65
1:O:171:LEU:CD1	1:O:212:ILE:HB	2.27	0.65
1:A:642:PHE:HE2	1:O:612:GLU:HG3	1.60	0.64
1:B:262:SER:CB	1:B:283:VAL:HG11	2.27	0.64
1:C:515:ASP:OD2	1:C:516:VAL:HG22	1.98	0.64
1:D:258:LEU:HD11	1:D:310:ILE:CG1	2.28	0.64
1:D:476:ASP:OD1	1:D:477:ARG:N	2.31	0.64
1:E:354:ASN:OD1	1:E:355:THR:HG23	1.97	0.64
1:E:524:ASN:OD1	1:E:524:ASN:O	2.14	0.64
1:F:171:LEU:CD1	1:F:212:ILE:HB	2.27	0.64
1:H:608:LEU:CD2	1:H:625:VAL:HG11	2.27	0.64
1:I:171:LEU:CD1	1:I:212:ILE:HB	2.27	0.64
1:I:255:VAL:HG23	1:I:285:ILE:HG22	1.79	0.64
1:J:207:GLU:HA	1:J:210:ASN:OD1	1.96	0.64
1:K:608:LEU:CD2	1:K:625:VAL:HG11	2.27	0.64
1:M:365:GLY:CA	1:M:399:THR:HG23	2.17	0.64
1:M:608:LEU:CD2	1:M:625:VAL:HG11	2.27	0.64
1:N:320:VAL:HG21	1:N:488:PRO:HB2	1.77	0.64
1:O:225:LYS:HA	1:O:228:ILE:HD12	1.77	0.64
1:O:262:SER:CB	1:O:283:VAL:HG11	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:224:LEU:HG	1:B:224:LEU:O	1.96	0.64
1:B:523:LEU:HD22	1:B:538:GLY:HA3	1.78	0.64
1:C:122:ILE:HD11	1:C:131:VAL:HG22	1.79	0.64
1:D:401:ALA:O	1:D:405:ALA:HB2	1.95	0.64
1:F:122:ILE:HD11	1:F:131:VAL:HG22	1.80	0.64
1:F:258:LEU:HD11	1:F:310:ILE:CG1	2.28	0.64
1:F:525:THR:HG22	1:G:448:ALA:HB1	1.80	0.64
1:F:552:VAL:HG23	1:F:555:LEU:HB2	1.78	0.64
1:G:552:VAL:HG23	1:G:555:LEU:HB2	1.77	0.64
1:H:170:GLU:HA	1:H:211:SER:HA	1.78	0.64
1:I:122:ILE:HD11	1:I:131:VAL:HG22	1.80	0.64
1:I:161:ALA:HB1	1:J:134:ASP:OD2	1.97	0.64
1:I:170:GLU:HA	1:I:211:SER:HA	1.78	0.64
1:I:552:VAL:HG23	1:I:555:LEU:HB2	1.77	0.64
1:I:608:LEU:CD2	1:I:625:VAL:HG11	2.27	0.64
1:K:224:LEU:HG	1:K:224:LEU:O	1.96	0.64
1:K:255:VAL:HG23	1:K:285:ILE:HG22	1.79	0.64
1:M:354:ASN:OD1	1:M:355:THR:HG23	1.97	0.64
1:N:262:SER:CB	1:N:283:VAL:HG11	2.27	0.64
1:O:223:ARG:O	1:O:226:ARG:HB3	1.97	0.64
1:O:456:VAL:HG21	1:O:518:PHE:HE1	1.59	0.64
1:O:586:ILE:CD1	1:O:595:ILE:CD1	2.74	0.64
1:O:608:LEU:CD2	1:O:625:VAL:HG11	2.27	0.64
1:A:170:GLU:HA	1:A:211:SER:HA	1.78	0.64
1:A:608:LEU:CD2	1:A:625:VAL:HG11	2.27	0.64
1:B:515:ASP:CG	1:B:516:VAL:H	2.01	0.64
1:C:223:ARG:O	1:C:226:ARG:HB3	1.97	0.64
1:C:515:ASP:CG	1:C:516:VAL:H	2.00	0.64
1:C:586:ILE:CD1	1:C:595:ILE:CD1	2.74	0.64
1:D:354:ASN:OD1	1:D:355:THR:HG23	1.97	0.64
1:D:553:PRO:HD3	1:E:427:SER:N	2.12	0.64
1:G:204:VAL:CG1	1:G:205:ALA:N	2.59	0.64
1:G:523:LEU:HD11	1:H:440:ILE:HD11	1.68	0.64
1:H:476:ASP:OD1	1:H:477:ARG:N	2.31	0.64
1:I:319:GLN:O	1:I:586:ILE:N	2.27	0.64
1:I:336:ASN:OD1	1:I:569:ASN:CG	2.36	0.64
1:K:553:PRO:HD3	1:L:427:SER:N	2.11	0.64
1:M:255:VAL:O	1:M:259:LYS:HG2	1.96	0.64
1:M:515:ASP:OD2	1:M:516:VAL:HG22	1.97	0.64
1:N:515:ASP:CG	1:N:516:VAL:H	2.00	0.64
1:O:523:LEU:HD22	1:O:538:GLY:HA3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:456:VAL:HG21	1:A:518:PHE:HE1	1.59	0.64
1:B:521:ARG:NH1	1:B:577:LEU:HD12	2.11	0.64
1:B:553:PRO:HD3	1:C:427:SER:N	2.11	0.64
1:C:258:LEU:HD11	1:C:310:ILE:CG1	2.28	0.64
1:C:476:ASP:OD1	1:C:477:ARG:N	2.30	0.64
1:D:369:ALA:CB	1:D:397:TYR:CD1	2.76	0.64
1:F:204:VAL:CG1	1:F:205:ALA:N	2.59	0.64
1:F:354:ASN:OD1	1:F:355:THR:HG23	1.97	0.64
1:H:224:LEU:HG	1:H:224:LEU:O	1.96	0.64
1:I:258:LEU:HD11	1:I:310:ILE:CG1	2.28	0.64
1:J:122:ILE:HD11	1:J:131:VAL:HG22	1.80	0.64
1:J:320:VAL:HG21	1:J:488:PRO:HB2	1.77	0.64
1:J:354:ASN:OD1	1:J:355:THR:HG23	1.97	0.64
1:L:258:LEU:HD11	1:L:310:ILE:CG1	2.28	0.64
1:L:490:ILE:HG12	1:L:496:VAL:HG22	1.77	0.64
1:M:167:GLU:CG	1:M:214:ILE:HG22	2.26	0.64
1:N:161:ALA:HB1	1:O:134:ASP:OD2	1.98	0.64
1:O:336:ASN:OD1	1:O:569:ASN:CG	2.36	0.64
1:A:223:ARG:O	1:A:226:ARG:HB3	1.97	0.64
1:B:122:ILE:HD11	1:B:131:VAL:HG22	1.79	0.64
1:E:171:LEU:CD1	1:E:212:ILE:HB	2.27	0.64
1:E:223:ARG:O	1:E:226:ARG:HB3	1.97	0.64
1:E:515:ASP:OD2	1:E:516:VAL:HG22	1.98	0.64
1:G:122:ILE:HD11	1:G:131:VAL:HG22	1.80	0.64
1:G:224:LEU:O	1:G:224:LEU:HG	1.96	0.64
1:G:258:LEU:HD11	1:G:310:ILE:CG1	2.28	0.64
1:G:525:THR:HG22	1:H:448:ALA:HB1	1.80	0.64
1:H:112:ARG:HD3	1:H:133:TYR:CZ	2.31	0.64
1:H:122:ILE:HD11	1:H:131:VAL:HG22	1.80	0.64
1:H:375:THR:O	1:I:391:ARG:HA	1.98	0.64
1:I:525:THR:HG22	1:J:448:ALA:HB1	1.80	0.64
1:K:258:LEU:HD11	1:K:310:ILE:CG1	2.28	0.64
1:K:523:LEU:HD22	1:K:538:GLY:HA3	1.78	0.64
1:L:101:THR:CG2	1:L:141:ILE:O	2.39	0.64
1:N:122:ILE:HD11	1:N:131:VAL:HG22	1.80	0.64
1:B:114:LEU:HD11	1:B:158:VAL:CG1	2.28	0.64
1:C:262:SER:CB	1:C:283:VAL:HG11	2.27	0.64
1:C:523:LEU:HD22	1:C:538:GLY:HA3	1.79	0.64
1:D:122:ILE:HD11	1:D:131:VAL:HG22	1.80	0.64
1:D:171:LEU:CD1	1:D:212:ILE:HB	2.27	0.64
1:E:456:VAL:HG23	1:E:518:PHE:HZ	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:114:LEU:HD11	1:F:158:VAL:CG1	2.28	0.64
1:F:515:ASP:OD2	1:F:516:VAL:HG22	1.98	0.64
1:I:167:GLU:CG	1:I:214:ILE:HG22	2.26	0.64
1:J:106:VAL:HG21	1:J:158:VAL:CG1	2.17	0.64
1:J:171:LEU:HD13	1:J:212:ILE:H	1.63	0.64
1:J:523:LEU:HD22	1:J:538:GLY:HA3	1.79	0.64
1:L:167:GLU:CG	1:L:214:ILE:HG22	2.26	0.64
1:L:369:ALA:CB	1:L:397:TYR:CD1	2.76	0.64
1:M:258:LEU:HD11	1:M:310:ILE:CG1	2.27	0.64
1:M:456:VAL:HG21	1:M:518:PHE:HE1	1.59	0.64
1:N:255:VAL:O	1:N:259:LYS:HG2	1.96	0.64
1:N:525:THR:HG22	1:O:448:ALA:HB1	1.79	0.64
1:O:122:ILE:HD11	1:O:131:VAL:HG22	1.80	0.64
1:O:515:ASP:OD2	1:O:516:VAL:HG22	1.98	0.64
1:A:553:PRO:HD3	1:B:427:SER:N	2.11	0.64
1:B:515:ASP:OD2	1:B:516:VAL:HG22	1.97	0.64
1:C:336:ASN:OD1	1:C:569:ASN:CG	2.36	0.64
1:C:354:ASN:OD1	1:C:355:THR:HG23	1.97	0.64
1:E:476:ASP:OD1	1:E:477:ARG:N	2.31	0.64
1:G:336:ASN:OD1	1:G:569:ASN:CG	2.36	0.64
1:H:523:LEU:HD11	1:I:440:ILE:HD12	1.74	0.64
1:K:112:ARG:HD3	1:K:133:TYR:CZ	2.31	0.64
1:K:122:ILE:HD11	1:K:131:VAL:HG22	1.80	0.64
1:K:171:LEU:CD1	1:K:212:ILE:HB	2.27	0.64
1:O:170:GLU:HA	1:O:211:SER:HA	1.78	0.64
1:A:122:ILE:HD11	1:A:131:VAL:HG22	1.80	0.64
1:B:258:LEU:HD11	1:B:310:ILE:CG1	2.28	0.64
1:B:456:VAL:HG21	1:B:518:PHE:HE1	1.59	0.64
1:C:114:LEU:HD11	1:C:158:VAL:CG1	2.28	0.64
1:D:167:GLU:CG	1:D:214:ILE:HG22	2.26	0.64
1:E:122:ILE:HD11	1:E:131:VAL:HG22	1.80	0.64
1:F:171:LEU:HD13	1:F:212:ILE:H	1.63	0.64
1:F:255:VAL:HG23	1:F:285:ILE:HG22	1.79	0.64
1:I:262:SER:CB	1:I:283:VAL:HG11	2.27	0.64
1:L:515:ASP:OD2	1:L:516:VAL:HG22	1.98	0.64
1:L:596:THR:HG23	1:L:597:GLN:H	1.57	0.64
1:N:224:LEU:HG	1:N:224:LEU:O	1.96	0.64
1:N:354:ASN:OD1	1:N:355:THR:HG23	1.97	0.64
1:N:523:LEU:HD22	1:N:538:GLY:HA3	1.80	0.64
1:A:171:LEU:CD1	1:A:212:ILE:HB	2.27	0.64
1:A:525:THR:HG22	1:B:448:ALA:HB1	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:354:ASN:OD1	1:B:355:THR:HG23	1.97	0.64
1:D:525:THR:HG22	1:E:448:ALA:HB1	1.80	0.64
1:E:114:LEU:HD11	1:E:158:VAL:CG1	2.28	0.64
1:E:336:ASN:OD1	1:E:569:ASN:CG	2.37	0.64
1:F:224:LEU:HG	1:F:224:LEU:O	1.96	0.64
1:G:515:ASP:CG	1:G:516:VAL:H	2.00	0.64
1:I:375:THR:O	1:J:391:ARG:HA	1.98	0.64
1:J:262:SER:CB	1:J:283:VAL:HG11	2.27	0.64
1:K:336:ASN:OD1	1:K:569:ASN:CG	2.37	0.64
1:K:515:ASP:OD2	1:K:516:VAL:HG22	1.98	0.64
1:M:101:THR:CG2	1:M:141:ILE:O	2.39	0.64
1:M:122:ILE:HD11	1:M:131:VAL:HG22	1.80	0.64
1:M:515:ASP:CG	1:M:516:VAL:H	2.01	0.64
1:N:170:GLU:HA	1:N:211:SER:HA	1.78	0.64
1:N:444:ASP:CG	1:N:490:ILE:CD1	2.61	0.64
1:A:336:ASN:OD1	1:A:569:ASN:CG	2.36	0.64
1:C:171:LEU:CD1	1:C:212:ILE:HB	2.27	0.64
1:C:456:VAL:CG2	1:C:518:PHE:CE1	2.81	0.64
1:E:515:ASP:CG	1:E:516:VAL:H	2.01	0.64
1:G:354:ASN:OD1	1:G:355:THR:HG23	1.97	0.64
1:H:258:LEU:HD11	1:H:310:ILE:CG1	2.27	0.64
1:H:262:SER:CB	1:H:283:VAL:HG11	2.27	0.64
1:K:171:LEU:HD13	1:K:212:ILE:H	1.63	0.64
1:K:515:ASP:CG	1:K:516:VAL:H	2.00	0.64
1:L:523:LEU:HD22	1:L:538:GLY:HA3	1.79	0.64
1:L:608:LEU:CD2	1:L:625:VAL:HG11	2.27	0.64
1:N:258:LEU:HD11	1:N:310:ILE:CG1	2.28	0.64
1:N:515:ASP:OD2	1:N:516:VAL:HG22	1.97	0.64
1:O:476:ASP:OD1	1:O:477:ARG:N	2.30	0.64
1:A:114:LEU:HD11	1:A:158:VAL:CG1	2.28	0.63
1:A:258:LEU:HD11	1:A:310:ILE:CG1	2.27	0.63
1:B:171:LEU:HD13	1:B:212:ILE:H	1.63	0.63
1:C:525:THR:HG22	1:D:448:ALA:HB1	1.80	0.63
1:C:553:PRO:HD3	1:D:427:SER:N	2.12	0.63
1:D:223:ARG:O	1:D:226:ARG:HB3	1.97	0.63
1:D:255:VAL:HG23	1:D:285:ILE:HG22	1.79	0.63
1:F:476:ASP:OD1	1:F:477:ARG:N	2.31	0.63
1:G:114:LEU:HD11	1:G:158:VAL:CG1	2.28	0.63
1:H:515:ASP:OD2	1:H:516:VAL:HG22	1.98	0.63
1:H:525:THR:HG22	1:I:448:ALA:HB1	1.80	0.63
1:I:515:ASP:CG	1:I:516:VAL:H	2.00	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:596:THR:HG23	1:J:597:GLN:H	1.57	0.63
1:L:255:VAL:HG23	1:L:285:ILE:HG22	1.79	0.63
1:L:336:ASN:OD1	1:L:569:ASN:CG	2.37	0.63
1:M:204:VAL:CG1	1:M:205:ALA:N	2.59	0.63
1:O:255:VAL:HG23	1:O:285:ILE:HG22	1.79	0.63
1:A:448:ALA:HB1	1:O:525:THR:HG22	1.80	0.63
1:B:525:THR:HG22	1:C:448:ALA:HB1	1.81	0.63
1:E:369:ALA:CB	1:E:397:TYR:CD1	2.76	0.63
1:F:515:ASP:CG	1:F:516:VAL:H	2.01	0.63
1:G:220:VAL:O	1:G:224:LEU:HB3	1.98	0.63
1:I:171:LEU:HD13	1:I:212:ILE:H	1.64	0.63
1:K:262:SER:CB	1:K:283:VAL:HG11	2.27	0.63
1:L:553:PRO:HD3	1:M:427:SER:N	2.12	0.63
1:N:336:ASN:OD1	1:N:569:ASN:CG	2.37	0.63
1:A:354:ASN:OD1	1:A:355:THR:HG23	1.97	0.63
1:A:476:ASP:OD1	1:A:477:ARG:N	2.31	0.63
1:B:255:VAL:HG23	1:B:285:ILE:HG22	1.79	0.63
1:G:515:ASP:OD2	1:G:516:VAL:HG22	1.98	0.63
1:H:255:VAL:HG23	1:H:285:ILE:HG22	1.79	0.63
1:I:114:LEU:HD11	1:I:158:VAL:CG1	2.28	0.63
1:I:476:ASP:OD1	1:I:477:ARG:N	2.31	0.63
1:J:515:ASP:OD2	1:J:516:VAL:HG22	1.97	0.63
1:J:525:THR:HG22	1:K:448:ALA:HB1	1.81	0.63
1:L:365:GLY:CA	1:L:399:THR:HG23	2.17	0.63
1:L:456:VAL:HG21	1:L:518:PHE:HE1	1.60	0.63
1:M:138:ILE:CG2	1:M:139:ILE:H	2.06	0.63
1:M:255:VAL:HG23	1:M:285:ILE:HG22	1.79	0.63
1:N:553:PRO:HD3	1:O:427:SER:N	2.12	0.63
1:O:258:LEU:HD11	1:O:310:ILE:CG1	2.28	0.63
1:O:515:ASP:CG	1:O:516:VAL:H	2.00	0.63
1:A:515:ASP:OD2	1:A:516:VAL:HG22	1.98	0.63
1:D:262:SER:CB	1:D:283:VAL:HG11	2.27	0.63
1:D:365:GLY:CA	1:D:399:THR:HG23	2.17	0.63
1:E:320:VAL:HG21	1:E:488:PRO:CB	2.29	0.63
1:H:171:LEU:HD13	1:H:212:ILE:H	1.64	0.63
1:J:114:LEU:HD11	1:J:158:VAL:CG1	2.28	0.63
1:L:122:ILE:HD11	1:L:131:VAL:HG22	1.80	0.63
1:L:262:SER:CB	1:L:283:VAL:HG11	2.27	0.63
1:L:525:THR:HG22	1:M:448:ALA:HB1	1.80	0.63
1:B:171:LEU:CD1	1:B:212:ILE:HB	2.27	0.63
1:B:456:VAL:CG2	1:B:518:PHE:CE1	2.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:171:LEU:HD13	1:C:212:ILE:H	1.63	0.63
1:F:456:VAL:CG2	1:F:518:PHE:CE1	2.81	0.63
1:G:444:ASP:CG	1:G:490:ILE:CD1	2.61	0.63
1:H:515:ASP:CG	1:H:516:VAL:H	2.01	0.63
1:I:354:ASN:OD1	1:I:355:THR:HG23	1.97	0.63
1:J:258:LEU:HD11	1:J:310:ILE:CG1	2.28	0.63
1:J:336:ASN:OD1	1:J:569:ASN:CG	2.36	0.63
1:K:444:ASP:CG	1:K:490:ILE:CD1	2.61	0.63
1:K:456:VAL:HG21	1:K:518:PHE:HE1	1.59	0.63
1:M:320:VAL:HG21	1:M:488:PRO:CB	2.29	0.63
1:M:525:THR:HG22	1:N:448:ALA:HB1	1.80	0.63
1:A:444:ASP:CG	1:A:490:ILE:CD1	2.61	0.63
1:B:320:VAL:HG21	1:B:488:PRO:CB	2.29	0.63
1:E:220:VAL:O	1:E:224:LEU:HB3	1.99	0.63
1:G:262:SER:CB	1:G:283:VAL:HG11	2.27	0.63
1:H:101:THR:CG2	1:H:141:ILE:O	2.39	0.63
1:H:320:VAL:HG21	1:H:488:PRO:CB	2.29	0.63
1:H:336:ASN:OD1	1:H:569:ASN:CG	2.37	0.63
1:J:515:ASP:CG	1:J:516:VAL:H	2.00	0.63
1:K:114:LEU:HD11	1:K:158:VAL:CG1	2.28	0.63
1:L:515:ASP:CG	1:L:516:VAL:H	2.00	0.63
1:M:369:ALA:CB	1:M:397:TYR:CD1	2.75	0.63
1:M:523:LEU:HD22	1:M:538:GLY:HA3	1.79	0.63
1:N:476:ASP:OD1	1:N:477:ARG:N	2.31	0.63
1:B:336:ASN:OD1	1:B:569:ASN:CG	2.36	0.63
1:D:220:VAL:O	1:D:224:LEU:HB3	1.99	0.63
1:D:375:THR:O	1:E:391:ARG:HA	1.99	0.63
1:I:220:VAL:O	1:I:224:LEU:HB3	1.99	0.63
1:I:515:ASP:OD2	1:I:516:VAL:HG22	1.98	0.63
1:J:255:VAL:HG23	1:J:285:ILE:HG22	1.79	0.63
1:J:476:ASP:OD1	1:J:477:ARG:N	2.31	0.63
1:K:525:THR:HG22	1:L:448:ALA:HB1	1.80	0.63
1:L:114:LEU:HD11	1:L:158:VAL:CG1	2.28	0.63
1:M:262:SER:CB	1:M:283:VAL:HG11	2.27	0.63
1:M:336:ASN:OD1	1:M:569:ASN:CG	2.36	0.63
1:A:171:LEU:HD13	1:A:212:ILE:H	1.64	0.63
1:B:220:VAL:O	1:B:224:LEU:HB3	1.99	0.63
1:B:375:THR:O	1:C:391:ARG:HA	1.99	0.63
1:D:515:ASP:OD2	1:D:516:VAL:HG22	1.98	0.63
1:D:523:LEU:HD21	1:D:538:GLY:HA3	1.81	0.63
1:F:161:ALA:HB1	1:G:134:ASP:OD2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:171:LEU:HD13	1:G:212:ILE:H	1.63	0.63
1:G:214:ILE:CD1	1:G:220:VAL:CG1	2.49	0.63
1:H:114:LEU:HD11	1:H:158:VAL:CG1	2.28	0.63
1:K:167:GLU:CG	1:K:214:ILE:HG22	2.26	0.63
1:M:319:GLN:O	1:M:586:ILE:N	2.27	0.63
1:B:476:ASP:OD1	1:B:477:ARG:N	2.31	0.63
1:D:101:THR:CG2	1:D:141:ILE:O	2.39	0.63
1:H:354:ASN:OD1	1:H:355:THR:HG23	1.97	0.63
1:K:456:VAL:CG2	1:K:518:PHE:CE1	2.82	0.63
1:L:320:VAL:HG21	1:L:488:PRO:CB	2.29	0.63
1:L:375:THR:O	1:M:391:ARG:HA	1.98	0.63
1:L:476:ASP:OD1	1:L:477:ARG:N	2.31	0.63
1:N:320:VAL:HG21	1:N:488:PRO:CB	2.29	0.63
1:D:114:LEU:HD11	1:D:158:VAL:CG1	2.28	0.62
1:D:336:ASN:OD1	1:D:569:ASN:CG	2.36	0.62
1:D:596:THR:HG23	1:D:597:GLN:H	1.57	0.62
1:F:336:ASN:OD1	1:F:569:ASN:CG	2.36	0.62
1:G:161:ALA:HB1	1:H:134:ASP:OD2	1.98	0.62
1:G:320:VAL:HG21	1:G:488:PRO:CB	2.29	0.62
1:J:223:ARG:HE	1:J:226:ARG:HH22	1.45	0.62
1:J:319:GLN:O	1:J:586:ILE:N	2.27	0.62
1:J:456:VAL:CG2	1:J:518:PHE:CE1	2.81	0.62
1:L:456:VAL:CG2	1:L:518:PHE:CE1	2.82	0.62
1:M:114:LEU:HD11	1:M:158:VAL:CG1	2.28	0.62
1:M:171:LEU:HD13	1:M:212:ILE:H	1.63	0.62
1:O:171:LEU:HD13	1:O:212:ILE:H	1.63	0.62
1:O:320:VAL:HG21	1:O:488:PRO:CB	2.29	0.62
1:C:171:LEU:O	1:C:210:ASN:HB3	1.99	0.62
1:C:220:VAL:O	1:C:224:LEU:HB3	1.99	0.62
1:F:167:GLU:N	1:F:214:ILE:CG2	2.61	0.62
1:F:220:VAL:O	1:F:224:LEU:HB3	1.99	0.62
1:F:262:SER:CB	1:F:283:VAL:HG11	2.27	0.62
1:I:489:GLN:O	1:I:489:GLN:CG	2.47	0.62
1:K:320:VAL:HG21	1:K:488:PRO:CB	2.29	0.62
1:K:596:THR:HG23	1:K:597:GLN:H	1.57	0.62
1:L:171:LEU:HD13	1:L:212:ILE:H	1.63	0.62
1:M:157:ARG:C	1:N:140:LEU:CD1	2.67	0.62
1:M:220:VAL:O	1:M:224:LEU:HB3	1.99	0.62
1:M:456:VAL:CG2	1:M:518:PHE:CE1	2.82	0.62
1:C:167:GLU:CG	1:C:214:ILE:HG22	2.26	0.62
1:E:171:LEU:HD13	1:E:212:ILE:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:262:SER:CB	1:E:283:VAL:HG11	2.27	0.62
1:F:171:LEU:O	1:F:210:ASN:HB3	2.00	0.62
1:G:167:GLU:N	1:G:214:ILE:CG2	2.60	0.62
1:H:167:GLU:CG	1:H:214:ILE:HG22	2.26	0.62
1:J:489:GLN:O	1:J:489:GLN:CG	2.47	0.62
1:M:161:ALA:HB1	1:N:134:ASP:OD2	1.99	0.62
1:N:171:LEU:O	1:N:210:ASN:HB3	2.00	0.62
1:N:456:VAL:CG2	1:N:518:PHE:CE1	2.81	0.62
1:O:114:LEU:HD11	1:O:158:VAL:CG1	2.28	0.62
1:O:354:ASN:OD1	1:O:355:THR:HG23	1.97	0.62
1:A:320:VAL:HG21	1:A:488:PRO:CB	2.29	0.62
1:A:326:ILE:CG1	1:A:502:GLN:NE2	2.62	0.62
1:C:261:VAL:HG13	1:D:241:ASN:HD22	1.65	0.62
1:C:320:VAL:HG21	1:C:488:PRO:CB	2.29	0.62
1:E:101:THR:CG2	1:E:141:ILE:O	2.39	0.62
1:N:114:LEU:HD11	1:N:158:VAL:CG1	2.28	0.62
1:N:612:GLU:HG3	1:O:642:PHE:HE2	1.63	0.62
1:O:171:LEU:O	1:O:210:ASN:HB3	2.00	0.62
1:O:319:GLN:O	1:O:586:ILE:N	2.27	0.62
1:A:391:ARG:HA	1:O:375:THR:O	2.00	0.62
1:A:456:VAL:CG2	1:A:518:PHE:CE1	2.82	0.62
1:A:523:LEU:HD21	1:A:538:GLY:HA3	1.82	0.62
1:D:612:GLU:HG3	1:E:642:PHE:HE2	1.62	0.62
1:E:157:ARG:C	1:F:140:LEU:CD1	2.67	0.62
1:H:261:VAL:HG13	1:I:241:ASN:HD22	1.64	0.62
1:L:523:LEU:HD21	1:L:538:GLY:HA3	1.81	0.62
1:N:523:LEU:HD11	1:O:440:ILE:HD12	1.74	0.62
1:O:326:ILE:CG1	1:O:502:GLN:NE2	2.63	0.62
1:B:171:LEU:O	1:B:210:ASN:HB3	2.00	0.62
1:E:171:LEU:O	1:E:210:ASN:HB3	2.00	0.62
1:E:456:VAL:CG2	1:E:518:PHE:CE1	2.82	0.62
1:E:523:LEU:HD21	1:E:538:GLY:HA3	1.82	0.62
1:G:326:ILE:CG1	1:G:502:GLN:NE2	2.63	0.62
1:G:612:GLU:HG3	1:H:642:PHE:HE2	1.62	0.62
1:K:171:LEU:O	1:K:210:ASN:HB3	1.99	0.62
1:K:523:LEU:HD21	1:K:538:GLY:HA3	1.81	0.62
1:L:220:VAL:O	1:L:224:LEU:HB3	1.99	0.62
1:N:171:LEU:HD13	1:N:212:ILE:H	1.63	0.62
1:O:220:VAL:O	1:O:224:LEU:HB3	1.99	0.62
1:B:161:ALA:HB1	1:C:134:ASP:OD2	2.00	0.62
1:B:261:VAL:HG13	1:C:241:ASN:HD22	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:321:LEU:HD22	1:B:595:ILE:HG23	1.82	0.62
1:D:171:LEU:HD13	1:D:212:ILE:H	1.64	0.62
1:D:320:VAL:HG21	1:D:488:PRO:CB	2.29	0.62
1:F:326:ILE:CG1	1:F:502:GLN:NE2	2.63	0.62
1:J:161:ALA:HB1	1:K:134:ASP:OD2	2.00	0.62
1:J:444:ASP:CG	1:J:490:ILE:CD1	2.61	0.62
1:K:489:GLN:O	1:K:489:GLN:CG	2.47	0.62
1:M:326:ILE:CG1	1:M:502:GLN:NE2	2.63	0.62
1:M:409:GLY:HA3	1:M:426:VAL:HB	1.81	0.62
1:N:326:ILE:CG1	1:N:502:GLN:NE2	2.63	0.62
1:O:409:GLY:HA3	1:O:426:VAL:HB	1.81	0.62
1:E:319:GLN:O	1:E:586:ILE:N	2.27	0.62
1:H:220:VAL:O	1:H:224:LEU:HB3	1.99	0.62
1:J:171:LEU:O	1:J:210:ASN:HB3	2.00	0.62
1:J:320:VAL:HG21	1:J:488:PRO:CB	2.29	0.62
1:A:261:VAL:HG13	1:B:241:ASN:HD22	1.64	0.62
1:A:409:GLY:HA3	1:A:426:VAL:HB	1.82	0.62
1:B:435:LEU:O	1:B:435:LEU:CD2	2.48	0.62
1:C:536:VAL:HG13	1:C:536:VAL:O	2.00	0.62
1:D:536:VAL:HG13	1:D:536:VAL:O	2.00	0.62
1:E:326:ILE:CG1	1:E:502:GLN:NE2	2.63	0.62
1:G:375:THR:O	1:H:391:ARG:HA	2.00	0.62
1:G:409:GLY:HA3	1:G:426:VAL:HB	1.81	0.62
1:H:523:LEU:HD21	1:H:538:GLY:HA3	1.81	0.62
1:I:283:VAL:CG2	1:I:302:ILE:HG21	2.30	0.62
1:I:536:VAL:HG13	1:I:536:VAL:O	2.00	0.62
1:J:521:ARG:HD2	1:J:577:LEU:HD13	1.82	0.62
1:K:220:VAL:O	1:K:224:LEU:HB3	1.99	0.62
1:K:375:THR:O	1:L:391:ARG:HA	2.00	0.62
1:L:171:LEU:O	1:L:210:ASN:HB3	2.00	0.62
1:L:261:VAL:HG13	1:M:241:ASN:HD22	1.65	0.62
1:N:409:GLY:HA3	1:N:426:VAL:HB	1.81	0.62
1:N:536:VAL:HG13	1:N:536:VAL:O	2.00	0.62
1:O:167:GLU:CG	1:O:214:ILE:HG22	2.26	0.62
1:A:220:VAL:O	1:A:224:LEU:HB3	1.99	0.62
1:B:536:VAL:O	1:B:536:VAL:HG13	2.00	0.62
1:C:523:LEU:HD21	1:C:538:GLY:HA3	1.82	0.62
1:D:319:GLN:O	1:D:586:ILE:N	2.27	0.62
1:E:167:GLU:N	1:E:214:ILE:CG2	2.61	0.62
1:E:444:ASP:CG	1:E:490:ILE:CD1	2.61	0.62
1:E:536:VAL:O	1:E:536:VAL:HG13	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:214:ILE:HD11	1:F:220:VAL:HG13	1.72	0.62
1:F:320:VAL:HG21	1:F:488:PRO:CB	2.29	0.62
1:H:171:LEU:O	1:H:210:ASN:HB3	2.00	0.62
1:H:536:VAL:O	1:H:536:VAL:HG13	2.00	0.62
1:I:167:GLU:N	1:I:214:ILE:CG2	2.61	0.62
1:I:171:LEU:O	1:I:210:ASN:HB3	2.00	0.62
1:I:320:VAL:HG21	1:I:488:PRO:CB	2.29	0.62
1:O:523:LEU:HD21	1:O:538:GLY:HA3	1.81	0.62
1:E:261:VAL:HG13	1:F:241:ASN:HD22	1.64	0.61
1:J:536:VAL:O	1:J:536:VAL:HG13	2.00	0.61
1:K:283:VAL:CG2	1:K:302:ILE:HG21	2.30	0.61
1:K:365:GLY:CA	1:K:399:THR:HG23	2.17	0.61
1:K:476:ASP:OD1	1:K:477:ARG:N	2.30	0.61
1:K:536:VAL:HG13	1:K:536:VAL:O	2.00	0.61
1:M:171:LEU:O	1:M:210:ASN:HB3	2.00	0.61
1:M:523:LEU:HD21	1:M:538:GLY:HA3	1.82	0.61
1:N:220:VAL:O	1:N:224:LEU:HB3	1.99	0.61
1:N:261:VAL:HG13	1:O:241:ASN:HD22	1.65	0.61
1:B:326:ILE:CG1	1:B:502:GLN:NE2	2.63	0.61
1:C:161:ALA:HB1	1:D:134:ASP:OD2	2.00	0.61
1:F:444:ASP:CG	1:F:490:ILE:CD1	2.61	0.61
1:G:171:LEU:O	1:G:210:ASN:HB3	1.99	0.61
1:G:523:LEU:HD21	1:G:538:GLY:HA3	1.82	0.61
1:J:283:VAL:CG2	1:J:302:ILE:HG21	2.30	0.61
1:K:261:VAL:HG13	1:L:241:ASN:HD22	1.65	0.61
1:L:536:VAL:HG13	1:L:536:VAL:O	2.00	0.61
1:M:261:VAL:HG13	1:N:241:ASN:HD22	1.65	0.61
1:M:435:LEU:O	1:M:435:LEU:CD2	2.48	0.61
1:N:523:LEU:HD21	1:N:538:GLY:HA3	1.82	0.61
1:O:456:VAL:CG2	1:O:518:PHE:CE1	2.82	0.61
1:O:536:VAL:O	1:O:536:VAL:HG13	2.00	0.61
1:A:117:LEU:O	1:A:120:GLN:HB3	2.00	0.61
1:A:536:VAL:HG13	1:A:536:VAL:O	2.00	0.61
1:C:435:LEU:O	1:C:435:LEU:CD2	2.48	0.61
1:D:261:VAL:HG13	1:E:241:ASN:HD22	1.65	0.61
1:F:157:ARG:C	1:G:140:LEU:CD1	2.69	0.61
1:H:521:ARG:HD2	1:H:577:LEU:HD13	1.82	0.61
1:H:612:GLU:HG3	1:I:642:PHE:HE2	1.63	0.61
1:I:409:GLY:HA3	1:I:426:VAL:HB	1.81	0.61
1:J:326:ILE:CG1	1:J:502:GLN:NE2	2.63	0.61
1:K:326:ILE:CG1	1:K:502:GLN:NE2	2.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:283:VAL:CG2	1:L:302:ILE:HG21	2.30	0.61
1:L:326:ILE:CG1	1:L:502:GLN:NE2	2.62	0.61
1:M:283:VAL:CG2	1:M:302:ILE:HG21	2.30	0.61
1:A:319:GLN:O	1:A:586:ILE:N	2.27	0.61
1:C:117:LEU:O	1:C:120:GLN:HB3	2.01	0.61
1:C:321:LEU:HD22	1:C:595:ILE:HG23	1.82	0.61
1:D:171:LEU:O	1:D:210:ASN:HB3	2.00	0.61
1:E:523:LEU:HD11	1:F:440:ILE:HD12	1.73	0.61
1:F:435:LEU:O	1:F:435:LEU:CD2	2.49	0.61
1:H:167:GLU:N	1:H:214:ILE:CG2	2.60	0.61
1:H:326:ILE:CG1	1:H:502:GLN:NE2	2.63	0.61
1:I:214:ILE:HD11	1:I:220:VAL:HG13	1.72	0.61
1:J:220:VAL:O	1:J:224:LEU:HB3	1.99	0.61
1:K:157:ARG:C	1:L:140:LEU:CD1	2.68	0.61
1:L:435:LEU:O	1:L:435:LEU:CD2	2.49	0.61
1:M:476:ASP:OD1	1:M:477:ARG:N	2.31	0.61
1:M:536:VAL:O	1:M:536:VAL:HG13	2.01	0.61
1:A:488:PRO:HA	1:A:498:LEU:HD23	1.83	0.61
1:B:409:GLY:HA3	1:B:426:VAL:HB	1.81	0.61
1:C:326:ILE:CG1	1:C:502:GLN:NE2	2.63	0.61
1:D:326:ILE:CG1	1:D:502:GLN:NE2	2.63	0.61
1:D:456:VAL:CG2	1:D:518:PHE:CE1	2.82	0.61
1:E:117:LEU:O	1:E:120:GLN:HB3	2.01	0.61
1:E:435:LEU:O	1:E:435:LEU:CD2	2.48	0.61
1:E:596:THR:HG23	1:E:597:GLN:H	1.57	0.61
1:I:521:ARG:HD2	1:I:577:LEU:HD13	1.82	0.61
1:K:435:LEU:O	1:K:435:LEU:CD2	2.48	0.61
1:K:612:GLU:HG3	1:L:642:PHE:HE2	1.61	0.61
1:M:375:THR:O	1:N:391:ARG:HA	2.00	0.61
1:M:444:ASP:CG	1:M:490:ILE:CD1	2.61	0.61
1:O:265:LEU:HD22	1:O:302:ILE:HG23	1.83	0.61
1:C:319:GLN:O	1:C:586:ILE:N	2.27	0.61
1:C:409:GLY:HA3	1:C:426:VAL:HB	1.82	0.61
1:E:214:ILE:HD11	1:E:220:VAL:HG13	1.72	0.61
1:E:214:ILE:CD1	1:E:220:VAL:CG1	2.49	0.61
1:F:283:VAL:CG2	1:F:302:ILE:HG21	2.30	0.61
1:F:375:THR:O	1:G:391:ARG:HA	2.00	0.61
1:G:214:ILE:HD11	1:G:220:VAL:HG13	1.73	0.61
1:G:435:LEU:O	1:G:435:LEU:CD2	2.49	0.61
1:G:536:VAL:O	1:G:536:VAL:HG13	2.00	0.61
1:H:283:VAL:CG2	1:H:302:ILE:HG21	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:523:LEU:HD21	1:I:538:GLY:HA3	1.82	0.61
1:J:167:GLU:CG	1:J:214:ILE:HG22	2.26	0.61
1:K:593:ASP:O	1:K:596:THR:HG22	2.01	0.61
1:M:117:LEU:O	1:M:120:GLN:HB3	2.00	0.61
1:M:157:ARG:CB	1:N:140:LEU:HD11	2.29	0.61
1:A:167:GLU:CG	1:A:214:ILE:HG22	2.26	0.61
1:C:375:THR:O	1:D:391:ARG:HA	2.00	0.61
1:C:612:GLU:CG	1:D:642:PHE:CE2	2.84	0.61
1:E:409:GLY:HA3	1:E:426:VAL:HB	1.82	0.61
1:F:261:VAL:HG13	1:G:241:ASN:HD22	1.65	0.61
1:H:214:ILE:HD11	1:H:220:VAL:HG13	1.72	0.61
1:I:326:ILE:CG1	1:I:502:GLN:NE2	2.63	0.61
1:J:593:ASP:O	1:J:596:THR:HG22	2.01	0.61
1:K:161:ALA:HB1	1:L:134:ASP:OD2	2.01	0.61
1:L:409:GLY:HA3	1:L:426:VAL:HB	1.82	0.61
1:C:265:LEU:HD22	1:C:302:ILE:HG23	1.83	0.61
1:C:444:ASP:O	1:C:445:ASN:HB2	2.01	0.61
1:C:488:PRO:HA	1:C:498:LEU:HD23	1.83	0.61
1:E:327:VAL:HG21	1:F:603:ILE:HG21	1.83	0.61
1:F:141:ILE:HD11	1:F:155:ILE:HD12	1.82	0.61
1:G:141:ILE:HD11	1:G:155:ILE:HD12	1.82	0.61
1:G:261:VAL:HG13	1:H:241:ASN:HD22	1.66	0.61
1:G:265:LEU:HD22	1:G:302:ILE:HG12	1.83	0.61
1:G:283:VAL:CG2	1:G:302:ILE:HG21	2.31	0.61
1:G:327:VAL:HG21	1:H:603:ILE:HG21	1.83	0.61
1:J:167:GLU:N	1:J:214:ILE:CG2	2.61	0.61
1:J:327:VAL:HG21	1:K:603:ILE:HG21	1.83	0.61
1:N:101:THR:CG2	1:N:141:ILE:O	2.39	0.61
1:N:265:LEU:HD22	1:N:302:ILE:HG23	1.83	0.61
1:A:171:LEU:O	1:A:210:ASN:HB3	2.00	0.61
1:B:167:GLU:CG	1:B:214:ILE:HG22	2.26	0.61
1:B:265:LEU:HD22	1:B:302:ILE:HG23	1.83	0.61
1:D:444:ASP:CG	1:D:490:ILE:CD1	2.61	0.61
1:F:319:GLN:O	1:F:586:ILE:N	2.27	0.61
1:F:327:VAL:HG21	1:G:603:ILE:HG21	1.83	0.61
1:G:444:ASP:O	1:G:445:ASN:HB2	2.01	0.61
1:G:593:ASP:O	1:G:596:THR:HG22	2.01	0.61
1:J:409:GLY:HA3	1:J:426:VAL:HB	1.81	0.61
1:L:489:GLN:O	1:L:489:GLN:CG	2.47	0.61
1:M:488:PRO:HA	1:M:498:LEU:HD23	1.82	0.61
1:N:117:LEU:O	1:N:120:GLN:HB3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:141:ILE:HD11	1:N:155:ILE:HD12	1.82	0.61
1:O:117:LEU:O	1:O:120:GLN:HB3	2.01	0.61
1:B:117:LEU:O	1:B:120:GLN:HB3	2.01	0.61
1:D:444:ASP:O	1:D:445:ASN:HB2	2.01	0.61
1:H:409:GLY:HA3	1:H:426:VAL:HB	1.82	0.61
1:H:435:LEU:O	1:H:435:LEU:CD2	2.49	0.61
1:I:593:ASP:O	1:I:596:THR:HG22	2.01	0.61
1:K:521:ARG:HD2	1:K:577:LEU:HD13	1.82	0.61
1:L:265:LEU:HD22	1:L:302:ILE:HG23	1.83	0.61
1:M:141:ILE:HD11	1:M:155:ILE:HD12	1.82	0.61
1:M:351:GLN:HB2	1:M:359:ILE:HG22	1.83	0.61
1:O:141:ILE:HD11	1:O:155:ILE:HD12	1.82	0.61
1:A:612:GLU:HG3	1:B:642:PHE:HE2	1.65	0.60
1:C:365:GLY:CA	1:C:399:THR:HG23	2.17	0.60
1:C:612:GLU:HG3	1:D:642:PHE:HE2	1.63	0.60
1:E:141:ILE:HD11	1:E:155:ILE:HD12	1.82	0.60
1:F:409:GLY:HA3	1:F:426:VAL:HB	1.81	0.60
1:F:593:ASP:O	1:F:596:THR:HG22	2.01	0.60
1:H:141:ILE:HD11	1:H:155:ILE:HD12	1.82	0.60
1:H:265:LEU:HD22	1:H:302:ILE:HG12	1.83	0.60
1:H:327:VAL:HG21	1:I:603:ILE:HG21	1.83	0.60
1:H:593:ASP:O	1:H:596:THR:HG22	2.01	0.60
1:I:327:VAL:HG21	1:J:603:ILE:HG21	1.83	0.60
1:J:261:VAL:HG13	1:K:241:ASN:HD22	1.65	0.60
1:J:523:LEU:HD21	1:J:538:GLY:HA3	1.82	0.60
1:L:593:ASP:O	1:L:596:THR:HG22	2.01	0.60
1:N:435:LEU:O	1:N:435:LEU:CD2	2.49	0.60
1:N:593:ASP:O	1:N:596:THR:HG22	2.01	0.60
1:A:351:GLN:HB2	1:A:359:ILE:HG22	1.83	0.60
1:B:523:LEU:HD21	1:B:538:GLY:HA3	1.82	0.60
1:C:157:ARG:O	1:C:161:ALA:HB2	2.01	0.60
1:D:161:ALA:HB1	1:E:134:ASP:OD2	2.01	0.60
1:D:409:GLY:HA3	1:D:426:VAL:HB	1.82	0.60
1:F:523:LEU:HD21	1:F:538:GLY:HA3	1.83	0.60
1:G:521:ARG:HD2	1:G:577:LEU:HD13	1.82	0.60
1:H:157:ARG:O	1:H:161:ALA:HB2	2.01	0.60
1:I:117:LEU:O	1:I:120:GLN:HB3	2.00	0.60
1:I:261:VAL:HG13	1:J:241:ASN:HD22	1.66	0.60
1:K:265:LEU:HD22	1:K:302:ILE:HG23	1.83	0.60
1:L:141:ILE:HD11	1:L:155:ILE:HD12	1.82	0.60
1:L:157:ARG:C	1:M:140:LEU:CD1	2.69	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:321:LEU:HD22	1:L:595:ILE:HG23	1.82	0.60
1:L:521:ARG:HD2	1:L:577:LEU:HD13	1.82	0.60
1:M:265:LEU:HD22	1:M:302:ILE:HG23	1.83	0.60
1:N:521:ARG:HD2	1:N:577:LEU:HD13	1.82	0.60
1:O:521:ARG:HD2	1:O:577:LEU:HD13	1.82	0.60
1:A:157:ARG:O	1:B:140:LEU:HD11	1.97	0.60
1:A:265:LEU:HD22	1:A:302:ILE:HG23	1.83	0.60
1:B:141:ILE:HD11	1:B:155:ILE:HD12	1.82	0.60
1:B:283:VAL:CG2	1:B:302:ILE:HG21	2.30	0.60
1:D:167:GLU:N	1:D:214:ILE:CG2	2.60	0.60
1:F:536:VAL:HG13	1:F:536:VAL:O	2.00	0.60
1:H:444:ASP:O	1:H:445:ASN:HB2	2.01	0.60
1:I:141:ILE:HD11	1:I:155:ILE:HD12	1.82	0.60
1:I:456:VAL:CG2	1:I:518:PHE:CE1	2.82	0.60
1:N:283:VAL:CG2	1:N:302:ILE:HG21	2.30	0.60
1:O:593:ASP:O	1:O:596:THR:HG22	2.01	0.60
1:A:141:ILE:HD11	1:A:155:ILE:HD12	1.83	0.60
1:A:435:LEU:O	1:A:435:LEU:CD2	2.49	0.60
1:A:521:ARG:HD2	1:A:577:LEU:HD13	1.82	0.60
1:C:167:GLU:N	1:C:214:ILE:CG2	2.60	0.60
1:D:593:ASP:O	1:D:596:THR:HG22	2.01	0.60
1:E:157:ARG:O	1:E:161:ALA:HB2	2.01	0.60
1:E:489:GLN:O	1:E:489:GLN:CG	2.47	0.60
1:F:612:GLU:HG3	1:G:642:PHE:HE2	1.65	0.60
1:H:157:ARG:O	1:I:140:LEU:HD11	1.98	0.60
1:I:435:LEU:O	1:I:435:LEU:CD2	2.49	0.60
1:J:141:ILE:HD11	1:J:155:ILE:HD12	1.82	0.60
1:J:157:ARG:O	1:J:161:ALA:HB2	2.02	0.60
1:J:214:ILE:HD11	1:J:220:VAL:HG13	1.72	0.60
1:J:375:THR:O	1:K:391:ARG:HA	2.01	0.60
1:K:117:LEU:O	1:K:120:GLN:HB3	2.01	0.60
1:K:327:VAL:HG21	1:L:603:ILE:HG21	1.83	0.60
1:K:351:GLN:HB2	1:K:359:ILE:HG22	1.84	0.60
1:L:351:GLN:HB2	1:L:359:ILE:HG22	1.83	0.60
1:M:593:ASP:O	1:M:596:THR:HG22	2.01	0.60
1:O:444:ASP:CG	1:O:490:ILE:CD1	2.61	0.60
1:O:488:PRO:HA	1:O:498:LEU:HD23	1.83	0.60
1:E:283:VAL:CG2	1:E:302:ILE:HG21	2.31	0.60
1:E:488:PRO:HA	1:E:498:LEU:HD23	1.82	0.60
1:E:521:ARG:HD2	1:E:577:LEU:HD13	1.82	0.60
1:F:265:LEU:HD22	1:F:302:ILE:HG12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:117:LEU:O	1:H:120:GLN:HB3	2.01	0.60
1:I:114:LEU:CD1	1:I:158:VAL:HG11	2.32	0.60
1:J:106:VAL:HG22	1:J:159:ASP:N	2.16	0.60
1:J:365:GLY:CA	1:J:399:THR:HG23	2.17	0.60
1:K:409:GLY:HA3	1:K:426:VAL:HB	1.81	0.60
1:L:157:ARG:O	1:L:161:ALA:HB2	2.01	0.60
1:M:327:VAL:HG21	1:N:603:ILE:HG21	1.83	0.60
1:M:333:ASP:CG	1:O:618:MET:HE3	2.22	0.60
1:N:157:ARG:O	1:N:161:ALA:HB2	2.02	0.60
1:N:521:ARG:CZ	1:N:577:LEU:HD11	2.32	0.60
1:A:241:ASN:HD22	1:O:261:VAL:HG13	1.66	0.60
1:A:618:MET:HE3	1:N:333:ASP:CG	2.22	0.60
1:B:336:ASN:OD1	1:B:569:ASN:ND2	2.35	0.60
1:C:106:VAL:HG22	1:C:159:ASP:N	2.16	0.60
1:C:141:ILE:HD11	1:C:155:ILE:HD12	1.82	0.60
1:C:521:ARG:CZ	1:C:577:LEU:HD11	2.32	0.60
1:D:117:LEU:O	1:D:120:GLN:HB3	2.00	0.60
1:D:141:ILE:HD11	1:D:155:ILE:HD12	1.82	0.60
1:D:157:ARG:C	1:E:140:LEU:CD1	2.69	0.60
1:D:265:LEU:HD22	1:D:302:ILE:HG23	1.83	0.60
1:D:321:LEU:HD22	1:D:595:ILE:HG23	1.82	0.60
1:E:593:ASP:O	1:E:596:THR:HG22	2.01	0.60
1:F:157:ARG:O	1:F:161:ALA:HB2	2.01	0.60
1:F:521:ARG:HD2	1:F:577:LEU:HD13	1.82	0.60
1:I:101:THR:CG2	1:I:141:ILE:O	2.39	0.60
1:I:488:PRO:HA	1:I:498:LEU:HD23	1.83	0.60
1:J:447:GLU:OE2	1:J:485:LYS:HD3	2.02	0.60
1:J:521:ARG:CZ	1:J:577:LEU:HD11	2.32	0.60
1:K:114:LEU:CD1	1:K:158:VAL:HG11	2.32	0.60
1:N:488:PRO:HA	1:N:498:LEU:HD23	1.83	0.60
1:O:341:TRP:CZ3	1:O:421:ALA:HB2	2.37	0.60
1:A:157:ARG:C	1:B:140:LEU:CD1	2.69	0.60
1:B:106:VAL:HG22	1:B:159:ASP:N	2.16	0.60
1:B:319:GLN:O	1:B:586:ILE:N	2.27	0.60
1:B:521:ARG:HD2	1:B:577:LEU:HD13	1.82	0.60
1:D:106:VAL:HG22	1:D:159:ASP:N	2.16	0.60
1:F:444:ASP:O	1:F:445:ASN:HB2	2.01	0.60
1:G:117:LEU:O	1:G:120:GLN:HB3	2.01	0.60
1:I:321:LEU:HD22	1:I:595:ILE:HG23	1.81	0.60
1:J:351:GLN:HB2	1:J:359:ILE:HG22	1.84	0.60
1:J:612:GLU:HG3	1:K:642:PHE:HE2	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:319:GLN:O	1:K:586:ILE:N	2.27	0.60
1:K:341:TRP:CZ3	1:K:421:ALA:HB2	2.37	0.60
1:N:319:GLN:O	1:N:586:ILE:N	2.27	0.60
1:N:351:GLN:HB2	1:N:359:ILE:HG22	1.84	0.60
1:N:447:GLU:OE2	1:N:485:LYS:HD3	2.02	0.60
1:O:435:LEU:O	1:O:435:LEU:CD2	2.49	0.60
1:A:106:VAL:HG22	1:A:159:ASP:N	2.17	0.60
1:A:341:TRP:CZ3	1:A:421:ALA:HB2	2.37	0.60
1:C:283:VAL:CG2	1:C:302:ILE:HG21	2.30	0.60
1:C:327:VAL:HG21	1:D:603:ILE:HG21	1.83	0.60
1:C:593:ASP:O	1:C:596:THR:HG22	2.01	0.60
1:D:327:VAL:HG21	1:E:603:ILE:HG21	1.84	0.60
1:D:341:TRP:CZ3	1:D:421:ALA:HB2	2.37	0.60
1:E:265:LEU:HD22	1:E:302:ILE:HG23	1.83	0.60
1:G:114:LEU:CD1	1:G:158:VAL:HG11	2.32	0.60
1:G:265:LEU:HD22	1:G:302:ILE:HG23	1.83	0.60
1:G:612:GLU:CG	1:H:642:PHE:CE2	2.84	0.60
1:H:106:VAL:HG22	1:H:159:ASP:N	2.16	0.60
1:H:521:ARG:CZ	1:H:577:LEU:HD11	2.32	0.60
1:J:117:LEU:O	1:J:120:GLN:HB3	2.00	0.60
1:L:106:VAL:HG22	1:L:159:ASP:N	2.16	0.60
1:L:117:LEU:O	1:L:120:GLN:HB3	2.00	0.60
1:N:375:THR:O	1:O:391:ARG:HA	2.01	0.60
1:O:283:VAL:CG2	1:O:302:ILE:HG21	2.30	0.60
1:O:351:GLN:HB2	1:O:359:ILE:HG22	1.84	0.60
1:A:157:ARG:O	1:A:161:ALA:HB2	2.02	0.60
1:A:283:VAL:CG2	1:A:302:ILE:HG21	2.30	0.60
1:B:157:ARG:CB	1:C:140:LEU:HD11	2.31	0.60
1:D:435:LEU:O	1:D:435:LEU:CD2	2.49	0.60
1:D:521:ARG:HD2	1:D:577:LEU:HD13	1.81	0.60
1:E:612:GLU:HG3	1:F:642:PHE:HE2	1.65	0.60
1:F:336:ASN:OD1	1:F:569:ASN:ND2	2.35	0.60
1:K:141:ILE:HD11	1:K:155:ILE:HD12	1.82	0.60
1:K:157:ARG:O	1:K:161:ALA:HB2	2.01	0.60
1:K:447:GLU:OE2	1:K:485:LYS:HD3	2.02	0.60
1:L:327:VAL:HG21	1:M:603:ILE:HG21	1.84	0.60
1:M:114:LEU:CD1	1:M:158:VAL:HG11	2.32	0.60
1:M:336:ASN:OD1	1:M:569:ASN:ND2	2.35	0.60
1:M:521:ARG:HD2	1:M:577:LEU:HD13	1.82	0.60
1:O:106:VAL:HG22	1:O:159:ASP:N	2.16	0.60
1:O:157:ARG:O	1:O:161:ALA:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:447:GLU:OE2	1:O:485:LYS:HD3	2.02	0.60
1:O:521:ARG:CZ	1:O:577:LEU:HD11	2.32	0.60
1:A:489:GLN:O	1:A:489:GLN:CG	2.47	0.60
1:B:523:LEU:HD11	1:C:440:ILE:HD12	1.74	0.60
1:D:214:ILE:HD11	1:D:220:VAL:HG13	1.72	0.60
1:D:488:PRO:HA	1:D:498:LEU:HD23	1.83	0.60
1:E:521:ARG:CZ	1:E:577:LEU:HD11	2.32	0.60
1:F:489:GLN:O	1:F:489:GLN:CG	2.47	0.60
1:F:521:ARG:CZ	1:F:577:LEU:HD11	2.32	0.60
1:G:319:GLN:O	1:G:586:ILE:N	2.27	0.60
1:G:521:ARG:CZ	1:G:577:LEU:HD11	2.32	0.60
1:H:265:LEU:HD22	1:H:302:ILE:HG23	1.83	0.60
1:J:265:LEU:HD22	1:J:302:ILE:HG23	1.83	0.60
1:L:161:ALA:HB1	1:M:134:ASP:OD2	2.02	0.60
1:L:521:ARG:CZ	1:L:577:LEU:HD11	2.32	0.60
1:B:155:ILE:O	1:B:158:VAL:HG12	2.02	0.59
1:B:327:VAL:HG21	1:C:603:ILE:HG21	1.83	0.59
1:D:157:ARG:O	1:D:161:ALA:HB2	2.01	0.59
1:E:155:ILE:O	1:E:158:VAL:HG12	2.02	0.59
1:E:161:ALA:HB1	1:F:134:ASP:OD2	2.02	0.59
1:F:117:LEU:O	1:F:120:GLN:HB3	2.00	0.59
1:F:265:LEU:HD22	1:F:302:ILE:HG23	1.83	0.59
1:F:321:LEU:CD2	1:F:595:ILE:CG2	2.77	0.59
1:F:447:GLU:OE2	1:F:485:LYS:HD3	2.02	0.59
1:G:336:ASN:OD1	1:G:569:ASN:ND2	2.35	0.59
1:H:155:ILE:O	1:H:158:VAL:HG12	2.02	0.59
1:H:488:PRO:HA	1:H:498:LEU:HD23	1.83	0.59
1:H:612:GLU:CG	1:I:642:PHE:CE2	2.85	0.59
1:I:351:GLN:HB2	1:I:359:ILE:HG22	1.84	0.59
1:J:336:ASN:OD1	1:J:569:ASN:ND2	2.35	0.59
1:M:321:LEU:HD22	1:M:595:ILE:HG23	1.82	0.59
1:M:510:ALA:HB2	1:M:515:ASP:O	2.02	0.59
1:N:157:ARG:CB	1:O:140:LEU:HD11	2.31	0.59
1:N:444:ASP:O	1:N:445:ASN:HB2	2.01	0.59
1:O:265:LEU:HD22	1:O:302:ILE:HG12	1.83	0.59
1:B:157:ARG:O	1:B:161:ALA:HB2	2.02	0.59
1:B:444:ASP:O	1:B:445:ASN:HB2	2.02	0.59
1:C:336:ASN:OD1	1:C:569:ASN:ND2	2.35	0.59
1:F:155:ILE:O	1:F:158:VAL:HG12	2.02	0.59
1:G:155:ILE:O	1:G:158:VAL:HG12	2.02	0.59
1:G:447:GLU:OE2	1:G:485:LYS:HD3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:167:GLU:N	1:K:214:ILE:CG2	2.60	0.59
1:M:489:GLN:O	1:M:489:GLN:CG	2.47	0.59
1:A:521:ARG:CZ	1:A:577:LEU:HD11	2.32	0.59
1:A:593:ASP:O	1:A:596:THR:HG22	2.01	0.59
1:B:351:GLN:HB2	1:B:359:ILE:HG22	1.84	0.59
1:C:157:ARG:C	1:D:140:LEU:CD1	2.70	0.59
1:C:447:GLU:OE2	1:C:485:LYS:HD3	2.02	0.59
1:E:106:VAL:HG22	1:E:159:ASP:N	2.16	0.59
1:E:157:ARG:CB	1:F:140:LEU:HD11	2.30	0.59
1:E:444:ASP:O	1:E:445:ASN:HB2	2.01	0.59
1:F:114:LEU:CD1	1:F:158:VAL:HG11	2.32	0.59
1:G:157:ARG:O	1:G:161:ALA:HB2	2.01	0.59
1:G:488:PRO:HA	1:G:498:LEU:HD23	1.83	0.59
1:G:489:GLN:O	1:G:489:GLN:CG	2.47	0.59
1:I:106:VAL:HG22	1:I:159:ASP:N	2.16	0.59
1:I:155:ILE:O	1:I:158:VAL:HG12	2.02	0.59
1:I:265:LEU:HD22	1:I:302:ILE:HG12	1.83	0.59
1:I:612:GLU:HG3	1:J:642:PHE:HE2	1.65	0.59
1:I:612:GLU:CG	1:J:642:PHE:CE2	2.85	0.59
1:J:488:PRO:HA	1:J:498:LEU:HD23	1.83	0.59
1:J:612:GLU:CG	1:K:642:PHE:CE2	2.84	0.59
1:K:521:ARG:CZ	1:K:577:LEU:HD11	2.32	0.59
1:M:182:ILE:O	1:N:204:VAL:HG21	2.02	0.59
1:M:521:ARG:CZ	1:M:577:LEU:HD11	2.32	0.59
1:N:336:ASN:OD1	1:N:569:ASN:ND2	2.35	0.59
1:O:444:ASP:O	1:O:445:ASN:HB2	2.01	0.59
1:A:114:LEU:CD1	1:A:158:VAL:HG11	2.32	0.59
1:A:155:ILE:O	1:A:158:VAL:HG12	2.02	0.59
1:B:488:PRO:HA	1:B:498:LEU:HD23	1.83	0.59
1:C:171:LEU:HD13	1:C:212:ILE:N	2.18	0.59
1:D:114:LEU:CD1	1:D:158:VAL:HG11	2.32	0.59
1:D:336:ASN:OD1	1:D:569:ASN:ND2	2.35	0.59
1:D:521:ARG:CZ	1:D:577:LEU:HD11	2.32	0.59
1:E:169:VAL:HG11	1:E:228:ILE:HG23	1.85	0.59
1:G:167:GLU:CG	1:G:214:ILE:HG22	2.26	0.59
1:H:341:TRP:CZ3	1:H:421:ALA:HB2	2.37	0.59
1:I:265:LEU:HD22	1:I:302:ILE:HG23	1.83	0.59
1:J:368:GLU:HB2	1:J:399:THR:HG21	1.85	0.59
1:J:435:LEU:O	1:J:435:LEU:CD2	2.49	0.59
1:K:265:LEU:HD22	1:K:302:ILE:HG12	1.83	0.59
1:K:321:LEU:HD22	1:K:595:ILE:HG23	1.81	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:171:LEU:HD13	1:O:212:ILE:N	2.18	0.59
1:C:155:ILE:O	1:C:158:VAL:HG12	2.02	0.59
1:C:321:LEU:CD2	1:C:595:ILE:CG2	2.77	0.59
1:E:322:ILE:HG21	1:E:486:VAL:HG11	1.85	0.59
1:F:488:PRO:HA	1:F:498:LEU:HD23	1.83	0.59
1:G:106:VAL:HG22	1:G:159:ASP:N	2.16	0.59
1:G:368:GLU:HB2	1:G:399:THR:HG21	1.85	0.59
1:H:336:ASN:OD1	1:H:569:ASN:ND2	2.35	0.59
1:I:157:ARG:O	1:I:161:ALA:HB2	2.01	0.59
1:J:321:LEU:HD22	1:J:595:ILE:HG23	1.82	0.59
1:K:171:LEU:HD13	1:K:212:ILE:N	2.18	0.59
1:M:157:ARG:O	1:M:161:ALA:HB2	2.02	0.59
1:M:444:ASP:O	1:M:445:ASN:HB2	2.01	0.59
1:M:523:LEU:HD11	1:N:440:ILE:HD12	1.73	0.59
1:N:106:VAL:HG22	1:N:159:ASP:N	2.16	0.59
1:N:341:TRP:CZ3	1:N:421:ALA:HB2	2.38	0.59
1:A:603:ILE:HG21	1:O:327:VAL:HG21	1.83	0.59
1:B:510:ALA:HB2	1:B:515:ASP:O	2.03	0.59
1:B:521:ARG:CZ	1:B:577:LEU:HD11	2.32	0.59
1:C:157:ARG:CB	1:D:140:LEU:HD11	2.32	0.59
1:D:283:VAL:CG2	1:D:302:ILE:HG21	2.31	0.59
1:E:336:ASN:OD1	1:E:569:ASN:ND2	2.35	0.59
1:F:169:VAL:HG11	1:F:228:ILE:HG23	1.85	0.59
1:G:351:GLN:HB2	1:G:359:ILE:HG22	1.84	0.59
1:H:351:GLN:HB2	1:H:359:ILE:HG22	1.84	0.59
1:H:456:VAL:CG2	1:H:518:PHE:CE1	2.82	0.59
1:H:510:ALA:HB2	1:H:515:ASP:O	2.03	0.59
1:I:365:GLY:CA	1:I:399:THR:HG23	2.17	0.59
1:I:521:ARG:CZ	1:I:577:LEU:HD11	2.32	0.59
1:K:106:VAL:HG22	1:K:159:ASP:N	2.16	0.59
1:L:120:GLN:O	1:L:124:ASN:N	2.34	0.59
1:L:171:LEU:HD13	1:L:212:ILE:N	2.18	0.59
1:M:106:VAL:HG22	1:M:159:ASP:N	2.16	0.59
1:N:114:LEU:CD1	1:N:158:VAL:HG11	2.32	0.59
1:O:155:ILE:O	1:O:158:VAL:HG12	2.02	0.59
1:A:336:ASN:OD1	1:A:569:ASN:ND2	2.35	0.59
1:A:368:GLU:HB2	1:A:399:THR:HG21	1.85	0.59
1:B:167:GLU:N	1:B:214:ILE:CG2	2.61	0.59
1:B:612:GLU:HG3	1:C:642:PHE:HE2	1.66	0.59
1:C:521:ARG:HD2	1:C:577:LEU:HD13	1.82	0.59
1:F:322:ILE:HG21	1:F:486:VAL:HG11	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:114:LEU:CD1	1:H:158:VAL:HG11	2.32	0.59
1:H:161:ALA:HB1	1:I:134:ASP:OD2	2.03	0.59
1:H:488:PRO:O	1:H:488:PRO:CD	2.51	0.59
1:I:161:ALA:CB	1:J:134:ASP:OD2	2.50	0.59
1:I:368:GLU:HB2	1:I:399:THR:HG21	1.85	0.59
1:J:171:LEU:HD13	1:J:212:ILE:N	2.18	0.59
1:K:336:ASN:OD1	1:K:569:ASN:ND2	2.35	0.59
1:K:488:PRO:HA	1:K:498:LEU:HD23	1.83	0.59
1:K:612:GLU:CG	1:L:642:PHE:CE2	2.84	0.59
1:L:114:LEU:CD1	1:L:158:VAL:HG11	2.32	0.59
1:L:219:LYS:HZ1	1:M:105:ALA:HB2	1.65	0.59
1:L:336:ASN:OD1	1:L:569:ASN:ND2	2.35	0.59
1:L:341:TRP:CZ3	1:L:421:ALA:HB2	2.37	0.59
1:M:171:LEU:HD13	1:M:212:ILE:N	2.18	0.59
1:O:120:GLN:O	1:O:124:ASN:N	2.34	0.59
1:O:321:LEU:HD22	1:O:595:ILE:HG23	1.81	0.59
1:O:336:ASN:OD1	1:O:569:ASN:ND2	2.35	0.59
1:A:322:ILE:HG21	1:A:486:VAL:HG11	1.85	0.59
1:B:593:ASP:O	1:B:596:THR:HG22	2.01	0.59
1:C:322:ILE:HG21	1:C:486:VAL:HG11	1.85	0.59
1:D:155:ILE:O	1:D:158:VAL:HG12	2.02	0.59
1:D:322:ILE:HG21	1:D:486:VAL:HG11	1.85	0.59
1:E:341:TRP:CZ3	1:E:421:ALA:HB2	2.37	0.59
1:E:365:GLY:CA	1:E:399:THR:HG23	2.17	0.59
1:F:106:VAL:HG22	1:F:159:ASP:N	2.16	0.59
1:F:171:LEU:HD13	1:F:212:ILE:N	2.18	0.59
1:G:219:LYS:HZ1	1:H:105:ALA:HB2	1.65	0.59
1:G:341:TRP:CZ3	1:G:421:ALA:HB2	2.37	0.59
1:I:488:PRO:O	1:I:488:PRO:CD	2.51	0.59
1:J:155:ILE:O	1:J:158:VAL:HG12	2.02	0.59
1:J:510:ALA:HB2	1:J:515:ASP:O	2.03	0.59
1:M:120:GLN:O	1:M:124:ASN:N	2.34	0.59
1:N:327:VAL:HG21	1:O:603:ILE:HG21	1.84	0.59
1:A:327:VAL:HG21	1:B:603:ILE:HG21	1.83	0.59
1:C:368:GLU:HB2	1:C:399:THR:HG21	1.85	0.59
1:D:368:GLU:HB2	1:D:399:THR:HG21	1.85	0.59
1:F:351:GLN:HB2	1:F:359:ILE:HG22	1.84	0.59
1:F:612:GLU:CG	1:G:642:PHE:CE2	2.85	0.59
1:G:322:ILE:HG21	1:G:486:VAL:HG11	1.85	0.59
1:G:488:PRO:O	1:G:488:PRO:CD	2.51	0.59
1:H:169:VAL:HG11	1:H:228:ILE:HG23	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:447:GLU:OE2	1:H:485:LYS:HD3	2.03	0.59
1:I:322:ILE:HG21	1:I:486:VAL:HG11	1.85	0.59
1:I:336:ASN:OD1	1:I:569:ASN:ND2	2.35	0.59
1:J:114:LEU:CD1	1:J:158:VAL:HG11	2.32	0.59
1:K:179:MET:CE	1:K:227:LEU:HB3	2.33	0.59
1:K:214:ILE:HD11	1:K:220:VAL:HG13	1.72	0.59
1:L:265:LEU:HD22	1:L:302:ILE:HG12	1.83	0.59
1:L:447:GLU:OE2	1:L:485:LYS:HD3	2.03	0.59
1:N:368:GLU:HB2	1:N:399:THR:HG21	1.85	0.59
1:B:322:ILE:HG21	1:B:486:VAL:HG11	1.85	0.59
1:D:171:LEU:HD13	1:D:212:ILE:N	2.18	0.59
1:D:351:GLN:HB2	1:D:359:ILE:HG22	1.84	0.59
1:E:171:LEU:HD13	1:E:212:ILE:N	2.18	0.59
1:E:447:GLU:OE2	1:E:485:LYS:HD3	2.02	0.59
1:G:169:VAL:HG11	1:G:228:ILE:HG23	1.85	0.59
1:H:578:MET:HG2	1:I:603:ILE:HD11	1.85	0.59
1:L:368:GLU:HB2	1:L:399:THR:HG21	1.85	0.59
1:L:444:ASP:O	1:L:445:ASN:HB2	2.02	0.59
1:L:510:ALA:HB2	1:L:515:ASP:O	2.03	0.59
1:M:322:ILE:HG21	1:M:486:VAL:HG11	1.85	0.59
1:O:510:ALA:HB2	1:O:515:ASP:O	2.03	0.59
1:A:120:GLN:O	1:A:124:ASN:N	2.34	0.58
1:A:157:ARG:CB	1:B:140:LEU:HD11	2.32	0.58
1:A:447:GLU:OE2	1:A:485:LYS:HD3	2.03	0.58
1:E:265:LEU:HD22	1:E:302:ILE:HG12	1.83	0.58
1:E:351:GLN:HB2	1:E:359:ILE:HG22	1.84	0.58
1:F:179:MET:CE	1:F:227:LEU:HB3	2.33	0.58
1:H:179:MET:CE	1:H:227:LEU:HB3	2.33	0.58
1:I:444:ASP:O	1:I:445:ASN:HB2	2.02	0.58
1:J:265:LEU:HD22	1:J:302:ILE:HG12	1.83	0.58
1:L:488:PRO:HA	1:L:498:LEU:HD23	1.83	0.58
1:M:265:LEU:HD22	1:M:302:ILE:HG12	1.83	0.58
1:M:341:TRP:CZ3	1:M:421:ALA:HB2	2.38	0.58
1:N:171:LEU:HD13	1:N:212:ILE:N	2.18	0.58
1:O:179:MET:CE	1:O:227:LEU:HB3	2.33	0.58
1:A:140:LEU:HD13	1:O:157:ARG:O	1.97	0.58
1:A:179:MET:CE	1:A:227:LEU:HB3	2.33	0.58
1:A:444:ASP:O	1:A:445:ASN:HB2	2.02	0.58
1:D:510:ALA:HB2	1:D:515:ASP:O	2.03	0.58
1:F:368:GLU:HB2	1:F:399:THR:HG21	1.85	0.58
1:H:319:GLN:O	1:H:586:ILE:N	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:322:ILE:HG21	1:H:486:VAL:HG11	1.85	0.58
1:H:365:GLY:CA	1:H:399:THR:HG23	2.17	0.58
1:I:169:VAL:HG11	1:I:228:ILE:HG23	1.85	0.58
1:I:182:ILE:O	1:J:204:VAL:HG21	2.02	0.58
1:J:341:TRP:CZ3	1:J:421:ALA:HB2	2.38	0.58
1:K:157:ARG:O	1:L:140:LEU:HD11	1.97	0.58
1:K:444:ASP:O	1:K:445:ASN:HB2	2.01	0.58
1:K:510:ALA:HB2	1:K:515:ASP:O	2.03	0.58
1:L:157:ARG:CB	1:M:140:LEU:HD11	2.31	0.58
1:L:182:ILE:O	1:M:204:VAL:HG21	2.03	0.58
1:M:179:MET:CE	1:M:227:LEU:HB3	2.33	0.58
1:M:612:GLU:CG	1:N:642:PHE:CE2	2.84	0.58
1:N:120:GLN:O	1:N:124:ASN:N	2.34	0.58
1:N:322:ILE:HG21	1:N:486:VAL:HG11	1.85	0.58
1:O:322:ILE:HG21	1:O:486:VAL:HG11	1.85	0.58
1:B:182:ILE:O	1:C:204:VAL:HG21	2.03	0.58
1:B:341:TRP:CZ3	1:B:421:ALA:HB2	2.38	0.58
1:C:351:GLN:HB2	1:C:359:ILE:HG22	1.84	0.58
1:D:169:VAL:HG11	1:D:228:ILE:HG23	1.85	0.58
1:D:447:GLU:OE2	1:D:485:LYS:HD3	2.03	0.58
1:E:612:GLU:CG	1:F:642:PHE:CE2	2.85	0.58
1:I:238:LYS:HG2	1:I:240:ASN:HB2	1.86	0.58
1:J:488:PRO:O	1:J:488:PRO:CD	2.51	0.58
1:L:612:GLU:HG3	1:M:642:PHE:HE2	1.64	0.58
1:M:155:ILE:O	1:M:158:VAL:HG12	2.02	0.58
1:M:169:VAL:HG11	1:M:228:ILE:HG23	1.84	0.58
1:N:179:MET:CE	1:N:227:LEU:HB3	2.33	0.58
1:N:182:ILE:O	1:O:204:VAL:HG21	2.03	0.58
1:N:265:LEU:HD22	1:N:302:ILE:HG12	1.83	0.58
1:A:182:ILE:O	1:B:204:VAL:HG21	2.03	0.58
1:A:578:MET:HG2	1:B:603:ILE:HD11	1.86	0.58
1:B:171:LEU:HD13	1:B:212:ILE:N	2.18	0.58
1:B:219:LYS:HZ1	1:C:105:ALA:HB2	1.66	0.58
1:D:179:MET:CE	1:D:227:LEU:HB3	2.33	0.58
1:E:321:LEU:HD22	1:E:595:ILE:HG23	1.81	0.58
1:F:488:PRO:O	1:F:488:PRO:CD	2.51	0.58
1:F:510:ALA:HB2	1:F:515:ASP:O	2.03	0.58
1:F:608:LEU:HD23	1:F:625:VAL:HG11	1.86	0.58
1:G:179:MET:CE	1:G:227:LEU:HB3	2.33	0.58
1:I:341:TRP:CZ3	1:I:421:ALA:HB2	2.37	0.58
1:I:488:PRO:O	1:I:488:PRO:HD2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:444:ASP:O	1:J:445:ASN:HB2	2.01	0.58
1:L:169:VAL:HG11	1:L:228:ILE:HG23	1.85	0.58
1:L:322:ILE:HG21	1:L:486:VAL:HG11	1.85	0.58
1:N:155:ILE:O	1:N:158:VAL:HG12	2.03	0.58
1:N:488:PRO:O	1:N:488:PRO:CD	2.51	0.58
1:O:114:LEU:CD1	1:O:158:VAL:HG11	2.32	0.58
1:B:114:LEU:CD1	1:B:158:VAL:HG11	2.32	0.58
1:B:157:ARG:C	1:C:140:LEU:CD1	2.69	0.58
1:B:179:MET:CE	1:B:227:LEU:HB3	2.33	0.58
1:B:368:GLU:HB2	1:B:399:THR:HG21	1.85	0.58
1:C:114:LEU:CD1	1:C:158:VAL:HG11	2.32	0.58
1:C:219:LYS:HZ1	1:D:105:ALA:HB2	1.67	0.58
1:F:157:ARG:CB	1:G:140:LEU:HD11	2.30	0.58
1:F:365:GLY:CA	1:F:399:THR:HG23	2.17	0.58
1:F:578:MET:HG2	1:G:603:ILE:HD11	1.86	0.58
1:G:171:LEU:HD13	1:G:212:ILE:N	2.18	0.58
1:H:488:PRO:O	1:H:488:PRO:HD2	2.04	0.58
1:J:322:ILE:HG21	1:J:486:VAL:HG11	1.85	0.58
1:J:578:MET:HG2	1:K:603:ILE:HD11	1.86	0.58
1:L:155:ILE:O	1:L:158:VAL:HG12	2.02	0.58
1:L:612:GLU:CG	1:M:642:PHE:CE2	2.85	0.58
1:N:157:ARG:C	1:O:140:LEU:CD1	2.70	0.58
1:N:321:LEU:CD2	1:N:595:ILE:CG2	2.77	0.58
1:A:204:VAL:HG21	1:O:182:ILE:O	2.04	0.58
1:A:488:PRO:HD2	1:A:488:PRO:O	2.04	0.58
1:C:179:MET:CE	1:C:227:LEU:HB3	2.33	0.58
1:C:578:MET:HG2	1:D:603:ILE:HD11	1.86	0.58
1:E:488:PRO:O	1:E:488:PRO:HD2	2.04	0.58
1:M:157:ARG:O	1:N:140:LEU:HD13	1.99	0.58
1:M:488:PRO:O	1:M:488:PRO:CD	2.51	0.58
1:N:488:PRO:O	1:N:488:PRO:HD2	2.04	0.58
1:A:238:LYS:HG2	1:A:240:ASN:HB2	1.86	0.58
1:G:157:ARG:O	1:H:140:LEU:HD11	1.98	0.58
1:G:510:ALA:HB2	1:G:515:ASP:O	2.03	0.58
1:H:489:GLN:O	1:H:489:GLN:CG	2.47	0.58
1:I:171:LEU:HD13	1:I:212:ILE:N	2.18	0.58
1:K:155:ILE:O	1:K:158:VAL:HG12	2.02	0.58
1:K:368:GLU:HB2	1:K:399:THR:HG21	1.85	0.58
1:L:167:GLU:N	1:L:214:ILE:CG2	2.61	0.58
1:L:578:MET:HG2	1:M:603:ILE:HD11	1.86	0.58
1:M:238:LYS:HG2	1:M:240:ASN:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:447:GLU:OE2	1:M:485:LYS:HD3	2.02	0.58
1:M:578:MET:HG2	1:N:603:ILE:HD11	1.85	0.58
1:A:134:ASP:OD2	1:O:161:ALA:CB	2.51	0.58
1:B:489:GLN:O	1:B:489:GLN:CG	2.47	0.58
1:C:341:TRP:CZ3	1:C:421:ALA:HB2	2.37	0.58
1:C:488:PRO:HD2	1:C:488:PRO:O	2.04	0.58
1:D:182:ILE:O	1:E:204:VAL:HG21	2.03	0.58
1:D:265:LEU:HD22	1:D:302:ILE:HG12	1.83	0.58
1:E:182:ILE:O	1:F:204:VAL:HG21	2.02	0.58
1:I:447:GLU:OE2	1:I:485:LYS:HD3	2.03	0.58
1:K:488:PRO:O	1:K:488:PRO:CD	2.51	0.58
1:M:157:ARG:HD2	1:N:101:THR:HG21	1.86	0.58
1:N:238:LYS:HG2	1:N:240:ASN:HB2	1.86	0.58
1:A:99:VAL:HG13	1:A:143:GLY:HA2	1.86	0.58
1:A:265:LEU:HD22	1:A:302:ILE:HG12	1.83	0.58
1:B:265:LEU:HD22	1:B:302:ILE:HG12	1.83	0.58
1:B:447:GLU:OE2	1:B:485:LYS:HD3	2.02	0.58
1:C:214:ILE:HD11	1:C:220:VAL:HG13	1.73	0.58
1:C:265:LEU:HD22	1:C:302:ILE:HG12	1.83	0.58
1:E:114:LEU:CD1	1:E:158:VAL:HG11	2.32	0.58
1:E:321:LEU:CD2	1:E:595:ILE:CG2	2.78	0.58
1:G:365:GLY:CA	1:G:399:THR:HG23	2.17	0.58
1:I:510:ALA:HB2	1:I:515:ASP:O	2.02	0.58
1:J:368:GLU:HB2	1:J:399:THR:CG2	2.34	0.58
1:K:238:LYS:HG2	1:K:240:ASN:HB2	1.86	0.58
1:K:322:ILE:HG21	1:K:486:VAL:HG11	1.85	0.58
1:M:167:GLU:N	1:M:214:ILE:CG2	2.61	0.58
1:M:368:GLU:HB2	1:M:399:THR:HG21	1.85	0.58
1:N:169:VAL:HG11	1:N:228:ILE:HG23	1.85	0.58
1:O:214:ILE:CD1	1:O:220:VAL:CG1	2.49	0.58
1:A:368:GLU:HB2	1:A:399:THR:CG2	2.34	0.58
1:C:488:PRO:O	1:C:488:PRO:CD	2.51	0.58
1:E:578:MET:HG2	1:F:603:ILE:HD11	1.86	0.58
1:G:161:ALA:CB	1:H:134:ASP:OD2	2.52	0.58
1:G:182:ILE:O	1:H:204:VAL:HG21	2.03	0.58
1:I:157:ARG:O	1:J:140:LEU:HD13	1.97	0.58
1:K:219:LYS:HZ2	1:L:105:ALA:HB2	1.69	0.58
1:L:488:PRO:HD2	1:L:488:PRO:O	2.04	0.58
1:N:368:GLU:HB2	1:N:399:THR:CG2	2.34	0.58
1:N:578:MET:HG2	1:O:603:ILE:HD11	1.86	0.58
1:O:368:GLU:HB2	1:O:399:THR:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:488:PRO:O	1:O:488:PRO:CD	2.51	0.58
1:B:612:GLU:CG	1:C:642:PHE:CE2	2.85	0.57
1:F:368:GLU:HB2	1:F:399:THR:CG2	2.34	0.57
1:G:578:MET:HG2	1:H:603:ILE:HD11	1.85	0.57
1:H:368:GLU:HB2	1:H:399:THR:CG2	2.34	0.57
1:J:179:MET:CE	1:J:227:LEU:HB3	2.33	0.57
1:K:182:ILE:O	1:L:204:VAL:HG21	2.03	0.57
1:L:238:LYS:HG2	1:L:240:ASN:HB2	1.86	0.57
1:L:488:PRO:O	1:L:488:PRO:CD	2.51	0.57
1:N:612:GLU:CG	1:O:642:PHE:CE2	2.85	0.57
1:A:167:GLU:N	1:A:214:ILE:CG2	2.61	0.57
1:C:182:ILE:O	1:D:204:VAL:HG21	2.04	0.57
1:C:368:GLU:HB2	1:C:399:THR:CG2	2.34	0.57
1:D:488:PRO:O	1:D:488:PRO:CD	2.51	0.57
1:E:368:GLU:HB2	1:E:399:THR:HG21	1.85	0.57
1:F:341:TRP:CZ3	1:F:421:ALA:HB2	2.38	0.57
1:G:442:VAL:HG11	1:G:488:PRO:CG	2.21	0.57
1:G:456:VAL:CG2	1:G:518:PHE:CE1	2.81	0.57
1:G:523:LEU:HD11	1:H:440:ILE:HD12	1.74	0.57
1:H:165:GLU:O	1:H:216:GLY:O	2.22	0.57
1:I:608:LEU:HD23	1:I:625:VAL:HG11	1.86	0.57
1:K:606:GLU:OE2	1:L:635:HIS:HD2	1.87	0.57
1:O:99:VAL:HG13	1:O:143:GLY:HA2	1.86	0.57
1:A:359:ILE:O	1:A:363:MET:HG3	2.05	0.57
1:A:510:ALA:HB2	1:A:515:ASP:O	2.02	0.57
1:A:603:ILE:HD11	1:O:578:MET:HG2	1.86	0.57
1:B:368:GLU:HB2	1:B:399:THR:CG2	2.34	0.57
1:B:488:PRO:O	1:B:488:PRO:CD	2.51	0.57
1:E:488:PRO:O	1:E:488:PRO:CD	2.51	0.57
1:F:182:ILE:O	1:G:204:VAL:HG21	2.03	0.57
1:F:321:LEU:HD22	1:F:595:ILE:HG23	1.81	0.57
1:H:171:LEU:HD13	1:H:212:ILE:N	2.18	0.57
1:I:157:ARG:CB	1:J:140:LEU:HD11	2.29	0.57
1:I:444:ASP:CG	1:I:490:ILE:CD1	2.61	0.57
1:K:368:GLU:HB2	1:K:399:THR:CG2	2.34	0.57
1:K:608:LEU:HD23	1:K:625:VAL:HG11	1.86	0.57
1:M:368:GLU:HB2	1:M:399:THR:CG2	2.34	0.57
1:M:510:ALA:HB1	1:M:515:ASP:O	2.04	0.57
1:N:608:LEU:HD23	1:N:625:VAL:HG11	1.85	0.57
1:O:169:VAL:HG11	1:O:228:ILE:HG23	1.85	0.57
1:A:642:PHE:CE2	1:O:612:GLU:CG	2.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:359:ILE:O	1:B:363:MET:HG3	2.04	0.57
1:B:488:PRO:O	1:B:488:PRO:HD2	2.04	0.57
1:E:238:LYS:HG2	1:E:240:ASN:HB2	1.85	0.57
1:E:368:GLU:HB2	1:E:399:THR:CG2	2.34	0.57
1:E:510:ALA:HB2	1:E:515:ASP:O	2.03	0.57
1:E:608:LEU:HD23	1:E:625:VAL:HG11	1.86	0.57
1:G:165:GLU:O	1:G:216:GLY:O	2.22	0.57
1:G:368:GLU:HB2	1:G:399:THR:CG2	2.34	0.57
1:H:368:GLU:HB2	1:H:399:THR:HG21	1.85	0.57
1:J:321:LEU:CD2	1:J:595:ILE:CG2	2.77	0.57
1:J:608:LEU:HD23	1:J:625:VAL:HG11	1.85	0.57
1:K:157:ARG:CB	1:L:140:LEU:HD11	2.31	0.57
1:N:161:ALA:CB	1:O:134:ASP:OD2	2.52	0.57
1:A:321:LEU:HD22	1:A:595:ILE:HG23	1.81	0.57
1:B:99:VAL:HG13	1:B:143:GLY:HA2	1.86	0.57
1:B:578:MET:HG2	1:C:603:ILE:HD11	1.85	0.57
1:D:368:GLU:HB2	1:D:399:THR:CG2	2.34	0.57
1:E:144:ARG:HB2	1:E:147:VAL:HG22	1.87	0.57
1:G:238:LYS:HG2	1:G:240:ASN:HB2	1.86	0.57
1:G:321:LEU:HD22	1:G:595:ILE:HG23	1.81	0.57
1:I:165:GLU:O	1:I:216:GLY:O	2.22	0.57
1:J:165:GLU:O	1:J:216:GLY:O	2.22	0.57
1:J:169:VAL:HG11	1:J:228:ILE:HG23	1.85	0.57
1:M:359:ILE:O	1:M:363:MET:HG3	2.04	0.57
1:N:167:GLU:N	1:N:214:ILE:CG2	2.61	0.57
1:N:510:ALA:HB2	1:N:515:ASP:O	2.03	0.57
1:O:488:PRO:O	1:O:488:PRO:HD2	2.04	0.57
1:A:165:GLU:O	1:A:216:GLY:O	2.22	0.57
1:A:635:HIS:HD2	1:O:606:GLU:OE2	1.87	0.57
1:B:510:ALA:HB1	1:B:515:ASP:O	2.05	0.57
1:C:99:VAL:HG13	1:C:143:GLY:HA2	1.86	0.57
1:C:238:LYS:HG2	1:C:240:ASN:HB2	1.86	0.57
1:D:521:ARG:NH1	1:D:577:LEU:CD1	2.68	0.57
1:D:578:MET:HG2	1:E:603:ILE:HD11	1.86	0.57
1:G:359:ILE:O	1:G:363:MET:HG3	2.04	0.57
1:G:488:PRO:O	1:G:488:PRO:HD2	2.04	0.57
1:H:182:ILE:O	1:I:204:VAL:HG21	2.04	0.57
1:H:608:LEU:HD23	1:H:625:VAL:HG11	1.87	0.57
1:I:321:LEU:CD2	1:I:595:ILE:CG2	2.78	0.57
1:J:488:PRO:O	1:J:488:PRO:HD2	2.04	0.57
1:K:578:MET:HG2	1:L:603:ILE:HD11	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:488:PRO:O	1:M:488:PRO:HD2	2.04	0.57
1:N:489:GLN:O	1:N:489:GLN:CG	2.47	0.57
1:A:171:LEU:HD13	1:A:212:ILE:N	2.18	0.57
1:A:488:PRO:O	1:A:488:PRO:CD	2.51	0.57
1:D:488:PRO:O	1:D:488:PRO:HD2	2.04	0.57
1:D:612:GLU:CG	1:E:642:PHE:CE2	2.85	0.57
1:E:165:GLU:O	1:E:216:GLY:O	2.22	0.57
1:F:144:ARG:HB2	1:F:147:VAL:HG22	1.87	0.57
1:I:578:MET:HG2	1:J:603:ILE:HD11	1.86	0.57
1:K:521:ARG:NH1	1:K:577:LEU:CD1	2.68	0.57
1:L:214:ILE:HD11	1:L:220:VAL:HG13	1.72	0.57
1:L:368:GLU:HB2	1:L:399:THR:CG2	2.34	0.57
1:M:144:ARG:HB2	1:M:147:VAL:HG22	1.87	0.57
1:M:161:ALA:CB	1:N:134:ASP:OD2	2.52	0.57
1:O:165:GLU:O	1:O:216:GLY:O	2.22	0.57
1:A:169:VAL:HG11	1:A:228:ILE:HG23	1.85	0.57
1:A:510:ALA:HB1	1:A:515:ASP:O	2.04	0.57
1:C:169:VAL:HG11	1:C:228:ILE:HG23	1.85	0.57
1:D:510:ALA:HB1	1:D:515:ASP:O	2.05	0.57
1:F:165:GLU:O	1:F:216:GLY:O	2.22	0.57
1:F:488:PRO:O	1:F:488:PRO:HD2	2.04	0.57
1:G:99:VAL:HG13	1:G:143:GLY:HA2	1.86	0.57
1:G:608:LEU:HD23	1:G:625:VAL:HG11	1.86	0.57
1:H:99:VAL:HG13	1:H:143:GLY:HA2	1.86	0.57
1:L:510:ALA:HB1	1:L:515:ASP:O	2.05	0.57
1:C:510:ALA:HB1	1:C:515:ASP:O	2.05	0.57
1:I:359:ILE:O	1:I:363:MET:HG3	2.04	0.57
1:K:333:ASP:CG	1:M:618:MET:HE3	2.25	0.57
1:K:510:ALA:HB1	1:K:515:ASP:O	2.05	0.57
1:N:144:ARG:HB2	1:N:147:VAL:HG22	1.87	0.57
1:N:165:GLU:O	1:N:216:GLY:O	2.22	0.57
1:O:167:GLU:N	1:O:214:ILE:CG2	2.61	0.57
1:B:608:LEU:HD23	1:B:625:VAL:HG11	1.86	0.57
1:D:287:ALA:HA	1:D:294:LEU:HA	1.87	0.57
1:E:359:ILE:O	1:E:363:MET:HG3	2.05	0.57
1:F:299:PRO:HD2	1:F:302:ILE:HD12	1.87	0.57
1:H:238:LYS:HG2	1:H:240:ASN:HB2	1.86	0.57
1:H:321:LEU:CD2	1:H:595:ILE:CG2	2.77	0.57
1:I:144:ARG:HB2	1:I:147:VAL:HG22	1.87	0.57
1:I:368:GLU:HB2	1:I:399:THR:CG2	2.34	0.57
1:I:521:ARG:NH1	1:I:577:LEU:CD1	2.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:165:GLU:O	1:K:216:GLY:O	2.22	0.57
1:K:488:PRO:O	1:K:488:PRO:HD2	2.04	0.57
1:L:521:ARG:NH1	1:L:577:LEU:CD1	2.68	0.57
1:M:612:GLU:HG3	1:N:642:PHE:HE2	1.65	0.57
1:N:321:LEU:HD22	1:N:595:ILE:HG23	1.82	0.57
1:N:521:ARG:NH1	1:N:577:LEU:CD1	2.68	0.57
1:A:521:ARG:NH1	1:A:577:LEU:CD1	2.68	0.56
1:B:165:GLU:O	1:B:216:GLY:O	2.22	0.56
1:C:204:VAL:HG12	1:C:205:ALA:H	1.70	0.56
1:C:521:ARG:NH1	1:C:577:LEU:CD1	2.68	0.56
1:D:608:LEU:HD23	1:D:625:VAL:HG11	1.86	0.56
1:E:521:ARG:NH1	1:E:577:LEU:CD1	2.68	0.56
1:F:161:ALA:CB	1:G:134:ASP:OD2	2.53	0.56
1:F:521:ARG:NH1	1:F:577:LEU:CD1	2.68	0.56
1:K:283:VAL:HG21	1:K:302:ILE:HG21	1.87	0.56
1:L:359:ILE:O	1:L:363:MET:HG3	2.05	0.56
1:L:608:LEU:HD23	1:L:625:VAL:HG11	1.87	0.56
1:M:165:GLU:O	1:M:216:GLY:O	2.22	0.56
1:M:521:ARG:NH1	1:M:577:LEU:CD1	2.68	0.56
1:N:99:VAL:HG13	1:N:143:GLY:HA2	1.86	0.56
1:N:359:ILE:O	1:N:363:MET:HG3	2.05	0.56
1:A:144:ARG:HB2	1:A:147:VAL:HG22	1.87	0.56
1:A:161:ALA:HB1	1:B:134:ASP:OD2	2.05	0.56
1:B:321:LEU:CD2	1:B:595:ILE:CG2	2.77	0.56
1:D:144:ARG:HB2	1:D:147:VAL:HG22	1.87	0.56
1:D:359:ILE:O	1:D:363:MET:HG3	2.05	0.56
1:D:606:GLU:OE2	1:E:635:HIS:HD2	1.88	0.56
1:E:157:ARG:HD2	1:F:101:THR:HG21	1.86	0.56
1:J:359:ILE:O	1:J:363:MET:HG3	2.04	0.56
1:K:99:VAL:HG13	1:K:143:GLY:HA2	1.86	0.56
1:K:299:PRO:HD2	1:K:302:ILE:HD12	1.87	0.56
1:L:144:ARG:HB2	1:L:147:VAL:HG22	1.87	0.56
1:L:179:MET:CE	1:L:227:LEU:HB3	2.33	0.56
1:O:238:LYS:HG2	1:O:240:ASN:HB2	1.86	0.56
1:B:238:LYS:HG2	1:B:240:ASN:HB2	1.86	0.56
1:B:521:ARG:NH1	1:B:577:LEU:CD1	2.68	0.56
1:C:489:GLN:O	1:C:489:GLN:CG	2.47	0.56
1:C:608:LEU:HD23	1:C:625:VAL:HG11	1.86	0.56
1:D:99:VAL:HG13	1:D:143:GLY:HA2	1.86	0.56
1:D:165:GLU:O	1:D:216:GLY:O	2.22	0.56
1:D:299:PRO:HD2	1:D:302:ILE:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:287:ALA:HA	1:E:294:LEU:HA	1.87	0.56
1:E:299:PRO:HD2	1:E:302:ILE:HD12	1.88	0.56
1:F:204:VAL:HG12	1:F:205:ALA:H	1.70	0.56
1:G:521:ARG:NH1	1:G:577:LEU:CD1	2.68	0.56
1:H:144:ARG:HB2	1:H:147:VAL:HG22	1.87	0.56
1:H:521:ARG:NH1	1:H:577:LEU:CD1	2.68	0.56
1:I:478:LYS:NZ	1:J:455:GLU:OE2	2.39	0.56
1:J:283:VAL:HG21	1:J:302:ILE:HG21	1.87	0.56
1:J:521:ARG:NH1	1:J:577:LEU:CD1	2.68	0.56
1:K:120:GLN:O	1:K:124:ASN:N	2.34	0.56
1:K:327:VAL:O	1:K:327:VAL:HG13	2.06	0.56
1:L:204:VAL:HG12	1:L:205:ALA:H	1.71	0.56
1:L:283:VAL:HG21	1:L:302:ILE:HG21	1.87	0.56
1:L:287:ALA:HA	1:L:294:LEU:HA	1.87	0.56
1:O:144:ARG:HB2	1:O:147:VAL:HG22	1.87	0.56
1:O:327:VAL:HG13	1:O:327:VAL:O	2.05	0.56
1:O:359:ILE:O	1:O:363:MET:HG3	2.05	0.56
1:O:368:GLU:HB2	1:O:399:THR:CG2	2.34	0.56
1:B:287:ALA:HA	1:B:294:LEU:HA	1.87	0.56
1:C:287:ALA:HA	1:C:294:LEU:HA	1.87	0.56
1:F:238:LYS:HG2	1:F:240:ASN:HB2	1.86	0.56
1:F:310:ILE:O	1:F:314:ASP:HB2	2.06	0.56
1:F:359:ILE:O	1:F:363:MET:HG3	2.04	0.56
1:F:478:LYS:NZ	1:G:455:GLU:OE2	2.39	0.56
1:G:327:VAL:HG13	1:G:327:VAL:O	2.06	0.56
1:H:510:ALA:HB1	1:H:515:ASP:O	2.05	0.56
1:I:283:VAL:HG21	1:I:302:ILE:HG21	1.87	0.56
1:J:238:LYS:HG2	1:J:240:ASN:HB2	1.86	0.56
1:K:529:VAL:HG11	1:K:583:PRO:HD3	1.87	0.56
1:L:327:VAL:HG13	1:L:327:VAL:O	2.06	0.56
1:A:523:LEU:HD11	1:B:440:ILE:HD12	1.73	0.56
1:B:144:ARG:HB2	1:B:147:VAL:HG22	1.87	0.56
1:B:169:VAL:HG11	1:B:228:ILE:HG23	1.85	0.56
1:C:165:GLU:O	1:C:216:GLY:O	2.22	0.56
1:D:327:VAL:HG13	1:D:327:VAL:O	2.06	0.56
1:F:99:VAL:HG13	1:F:143:GLY:HA2	1.86	0.56
1:G:144:ARG:HB2	1:G:147:VAL:HG22	1.87	0.56
1:G:328:GLU:CG	1:G:521:ARG:NH1	2.67	0.56
1:H:327:VAL:O	1:H:327:VAL:HG13	2.06	0.56
1:I:99:VAL:HG13	1:I:143:GLY:HA2	1.86	0.56
1:L:299:PRO:HD2	1:L:302:ILE:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:529:VAL:HG11	1:L:583:PRO:HD3	1.87	0.56
1:M:287:ALA:HA	1:M:294:LEU:HA	1.87	0.56
1:M:299:PRO:HD2	1:M:302:ILE:HD12	1.87	0.56
1:N:299:PRO:HD2	1:N:302:ILE:HD12	1.87	0.56
1:O:204:VAL:HG12	1:O:205:ALA:H	1.71	0.56
1:O:321:LEU:CD2	1:O:595:ILE:CG2	2.77	0.56
1:O:529:VAL:HG11	1:O:583:PRO:HD3	1.87	0.56
1:C:144:ARG:HB2	1:C:147:VAL:HG22	1.87	0.56
1:E:179:MET:CE	1:E:227:LEU:HB3	2.33	0.56
1:F:287:ALA:HA	1:F:294:LEU:HA	1.87	0.56
1:H:328:GLU:CG	1:H:521:ARG:NH1	2.67	0.56
1:H:359:ILE:O	1:H:363:MET:HG3	2.05	0.56
1:H:433:ASN:OD1	1:I:607:GLN:NE2	2.38	0.56
1:I:510:ALA:HB1	1:I:515:ASP:O	2.05	0.56
1:J:299:PRO:HD2	1:J:302:ILE:HD12	1.87	0.56
1:J:510:ALA:HB1	1:J:515:ASP:O	2.05	0.56
1:L:99:VAL:HG13	1:L:143:GLY:HA2	1.86	0.56
1:M:283:VAL:HG21	1:M:302:ILE:HG21	1.87	0.56
1:O:608:LEU:HD23	1:O:625:VAL:HG11	1.86	0.56
1:A:140:LEU:CD1	1:O:157:ARG:C	2.74	0.56
1:A:287:ALA:HA	1:A:294:LEU:HA	1.87	0.56
1:A:529:VAL:HG11	1:A:583:PRO:HD3	1.88	0.56
1:A:612:GLU:CG	1:B:642:PHE:CE2	2.85	0.56
1:B:157:ARG:HD2	1:C:101:THR:HG21	1.88	0.56
1:C:299:PRO:HD2	1:C:302:ILE:HD12	1.87	0.56
1:C:325:LEU:O	1:C:325:LEU:HD23	2.06	0.56
1:C:359:ILE:O	1:C:363:MET:HG3	2.04	0.56
1:D:161:ALA:CB	1:E:134:ASP:OD2	2.54	0.56
1:E:478:LYS:NZ	1:F:455:GLU:OE2	2.39	0.56
1:E:510:ALA:HB1	1:E:515:ASP:O	2.05	0.56
1:F:500:ILE:HD13	1:F:537:LEU:CD1	2.36	0.56
1:G:287:ALA:HA	1:G:294:LEU:HA	1.87	0.56
1:G:299:PRO:HD2	1:G:302:ILE:HD12	1.88	0.56
1:G:510:ALA:HB1	1:G:515:ASP:O	2.05	0.56
1:J:144:ARG:HB2	1:J:147:VAL:HG22	1.87	0.56
1:J:478:LYS:NZ	1:K:455:GLU:OE2	2.39	0.56
1:L:165:GLU:O	1:L:216:GLY:O	2.22	0.56
1:M:204:VAL:HG12	1:M:205:ALA:H	1.70	0.56
1:M:529:VAL:HG11	1:M:583:PRO:HD3	1.88	0.56
1:N:510:ALA:HB1	1:N:515:ASP:O	2.05	0.56
1:B:214:ILE:HD11	1:B:220:VAL:HG13	1.72	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:327:VAL:HG13	1:B:327:VAL:O	2.06	0.56
1:B:529:VAL:HG11	1:B:583:PRO:HD3	1.88	0.56
1:C:310:ILE:O	1:C:314:ASP:HB2	2.06	0.56
1:C:327:VAL:O	1:C:327:VAL:HG13	2.05	0.56
1:C:510:ALA:HB2	1:C:515:ASP:O	2.04	0.56
1:D:523:LEU:HD11	1:E:440:ILE:HD12	1.74	0.56
1:E:325:LEU:HD23	1:E:325:LEU:O	2.06	0.56
1:I:157:ARG:C	1:J:140:LEU:CD1	2.70	0.56
1:J:214:ILE:CD1	1:J:220:VAL:CG1	2.49	0.56
1:L:157:ARG:HD2	1:M:101:THR:HG21	1.88	0.56
1:M:323:GLU:HG2	1:M:439:SER:HB3	1.88	0.56
1:N:529:VAL:HG11	1:N:583:PRO:HD3	1.88	0.56
1:O:299:PRO:HD2	1:O:302:ILE:HD12	1.87	0.56
1:O:325:LEU:HD23	1:O:325:LEU:O	2.06	0.56
1:A:157:ARG:HD2	1:B:101:THR:HG21	1.88	0.56
1:A:299:PRO:HD2	1:A:302:ILE:HD12	1.87	0.56
1:B:161:ALA:CB	1:C:134:ASP:OD2	2.54	0.56
1:C:322:ILE:O	1:C:439:SER:HA	2.06	0.56
1:F:327:VAL:O	1:F:327:VAL:HG13	2.06	0.56
1:I:157:ARG:HD2	1:J:101:THR:HG21	1.86	0.56
1:I:323:GLU:HG2	1:I:439:SER:HB3	1.88	0.56
1:J:99:VAL:HG13	1:J:143:GLY:HA2	1.87	0.56
1:J:157:ARG:CB	1:K:140:LEU:HD11	2.31	0.56
1:K:243:VAL:HG23	1:K:295:VAL:HG22	1.88	0.56
1:K:328:GLU:CG	1:K:521:ARG:NH1	2.67	0.56
1:K:359:ILE:O	1:K:363:MET:HG3	2.04	0.56
1:M:99:VAL:HG13	1:M:143:GLY:HA2	1.86	0.56
1:O:521:ARG:NH1	1:O:577:LEU:CD1	2.68	0.56
1:A:442:VAL:HG13	1:A:488:PRO:CG	2.37	0.56
1:B:322:ILE:O	1:B:439:SER:HA	2.06	0.56
1:E:99:VAL:HG13	1:E:143:GLY:HA2	1.86	0.56
1:E:323:GLU:HG2	1:E:439:SER:HB3	1.88	0.56
1:F:325:LEU:O	1:F:325:LEU:HD23	2.06	0.56
1:J:204:VAL:HG12	1:J:205:ALA:H	1.71	0.56
1:J:322:ILE:O	1:J:439:SER:HA	2.06	0.56
1:J:500:ILE:HD13	1:J:537:LEU:CD1	2.36	0.56
1:K:169:VAL:HG11	1:K:228:ILE:HG23	1.85	0.56
1:K:287:ALA:HA	1:K:294:LEU:HA	1.87	0.56
1:K:322:ILE:O	1:K:439:SER:HA	2.06	0.56
1:N:283:VAL:HG21	1:N:302:ILE:HG21	1.87	0.56
1:A:322:ILE:O	1:A:439:SER:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:325:LEU:HD23	1:B:325:LEU:O	2.06	0.55
1:D:157:ARG:HD2	1:E:101:THR:HG21	1.88	0.55
1:D:238:LYS:HG2	1:D:240:ASN:HB2	1.86	0.55
1:D:321:LEU:CD2	1:D:595:ILE:CG2	2.77	0.55
1:D:325:LEU:HD23	1:D:325:LEU:O	2.06	0.55
1:F:157:ARG:O	1:G:140:LEU:HD11	1.98	0.55
1:G:283:VAL:HG21	1:G:302:ILE:HG21	1.87	0.55
1:G:500:ILE:HD13	1:G:537:LEU:CD1	2.36	0.55
1:H:157:ARG:C	1:I:140:LEU:CD1	2.69	0.55
1:H:283:VAL:HG21	1:H:302:ILE:HG21	1.88	0.55
1:H:325:LEU:O	1:H:325:LEU:HD23	2.06	0.55
1:I:327:VAL:HG13	1:I:327:VAL:O	2.06	0.55
1:I:458:VAL:HG11	1:I:518:PHE:CZ	2.41	0.55
1:J:182:ILE:O	1:K:204:VAL:HG21	2.04	0.55
1:J:310:ILE:O	1:J:314:ASP:HB2	2.06	0.55
1:J:458:VAL:HG11	1:J:518:PHE:CZ	2.41	0.55
1:K:144:ARG:HB2	1:K:147:VAL:HG22	1.87	0.55
1:K:323:GLU:HG2	1:K:439:SER:HB3	1.88	0.55
1:L:458:VAL:HG11	1:L:518:PHE:CZ	2.41	0.55
1:M:327:VAL:O	1:M:327:VAL:HG13	2.06	0.55
1:M:500:ILE:HD13	1:M:537:LEU:CD1	2.36	0.55
1:O:355:THR:O	1:O:356:GLY:C	2.45	0.55
1:A:140:LEU:HD11	1:O:157:ARG:O	2.00	0.55
1:A:325:LEU:O	1:A:325:LEU:HD23	2.06	0.55
1:A:458:VAL:HG11	1:A:518:PHE:CZ	2.41	0.55
1:B:310:ILE:O	1:B:314:ASP:HB2	2.06	0.55
1:C:283:VAL:HG21	1:C:302:ILE:HG21	1.87	0.55
1:D:433:ASN:OD1	1:E:607:GLN:NE2	2.39	0.55
1:I:320:VAL:HG13	1:I:444:ASP:OD1	2.06	0.55
1:I:325:LEU:O	1:I:325:LEU:HD23	2.06	0.55
1:I:500:ILE:HD13	1:I:537:LEU:CD1	2.36	0.55
1:J:243:VAL:HG23	1:J:295:VAL:HG22	1.88	0.55
1:J:442:VAL:HG13	1:J:488:PRO:CG	2.36	0.55
1:K:458:VAL:HG11	1:K:518:PHE:CZ	2.41	0.55
1:L:523:LEU:HD11	1:M:440:ILE:HD12	1.74	0.55
1:M:214:ILE:HD11	1:M:220:VAL:HG13	1.72	0.55
1:M:442:VAL:HG13	1:M:488:PRO:CG	2.37	0.55
1:N:287:ALA:HA	1:N:294:LEU:HA	1.87	0.55
1:N:500:ILE:HD13	1:N:537:LEU:CD1	2.36	0.55
1:O:510:ALA:HB1	1:O:515:ASP:O	2.05	0.55
1:A:320:VAL:HG13	1:A:444:ASP:OD1	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:527:VAL:HG21	1:A:537:LEU:HD21	1.88	0.55
1:A:607:GLN:NE2	1:O:433:ASN:OD1	2.39	0.55
1:D:157:ARG:CB	1:E:140:LEU:HD11	2.31	0.55
1:D:442:VAL:HG11	1:D:488:PRO:CG	2.21	0.55
1:D:500:ILE:HD13	1:D:537:LEU:CD1	2.36	0.55
1:D:529:VAL:HG11	1:D:583:PRO:HD3	1.88	0.55
1:E:161:ALA:CB	1:F:134:ASP:OD2	2.55	0.55
1:F:328:GLU:CG	1:F:521:ARG:NH1	2.67	0.55
1:G:310:ILE:O	1:G:314:ASP:HB2	2.06	0.55
1:G:322:ILE:O	1:G:439:SER:HA	2.06	0.55
1:H:173:ASN:ND2	1:H:235:MET:HE1	2.22	0.55
1:H:287:ALA:HA	1:H:294:LEU:HA	1.87	0.55
1:H:299:PRO:HD2	1:H:302:ILE:HD12	1.88	0.55
1:H:320:VAL:HG13	1:H:444:ASP:OD1	2.07	0.55
1:I:173:ASN:ND2	1:I:235:MET:HE1	2.22	0.55
1:K:442:VAL:HG13	1:K:488:PRO:CG	2.37	0.55
1:L:214:ILE:CD1	1:L:220:VAL:CG1	2.48	0.55
1:L:243:VAL:HG23	1:L:295:VAL:HG22	1.89	0.55
1:L:325:LEU:HD23	1:L:325:LEU:O	2.06	0.55
1:L:500:ILE:HD13	1:L:537:LEU:CD1	2.36	0.55
1:M:328:GLU:CG	1:M:521:ARG:NH1	2.67	0.55
1:M:458:VAL:HG11	1:M:518:PHE:CZ	2.41	0.55
1:N:320:VAL:HG13	1:N:444:ASP:OD1	2.06	0.55
1:N:458:VAL:HG11	1:N:518:PHE:CZ	2.41	0.55
1:O:258:LEU:CB	1:O:285:ILE:HD13	2.37	0.55
1:B:478:LYS:NZ	1:C:455:GLU:OE2	2.38	0.55
1:B:527:VAL:HG21	1:B:537:LEU:HD21	1.88	0.55
1:F:157:ARG:HD2	1:G:101:THR:HG21	1.87	0.55
1:G:258:LEU:HD13	1:G:310:ILE:HD11	1.89	0.55
1:G:606:GLU:OE2	1:H:635:HIS:HD2	1.89	0.55
1:J:299:PRO:HG2	1:J:302:ILE:HD12	1.89	0.55
1:K:157:ARG:HD2	1:L:101:THR:HG21	1.88	0.55
1:K:161:ALA:CB	1:L:134:ASP:OD2	2.54	0.55
1:L:258:LEU:CB	1:L:285:ILE:HD13	2.37	0.55
1:L:322:ILE:O	1:L:439:SER:HA	2.06	0.55
1:M:258:LEU:CB	1:M:285:ILE:HD13	2.37	0.55
1:A:327:VAL:HG13	1:A:327:VAL:O	2.06	0.55
1:B:120:GLN:O	1:B:124:ASN:N	2.34	0.55
1:B:283:VAL:HG21	1:B:302:ILE:HG21	1.87	0.55
1:C:320:VAL:HG13	1:C:444:ASP:OD1	2.07	0.55
1:C:529:VAL:HG11	1:C:583:PRO:HD3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:458:VAL:HG11	1:E:518:PHE:CZ	2.41	0.55
1:F:283:VAL:HG21	1:F:302:ILE:HG21	1.87	0.55
1:F:323:GLU:HG2	1:F:439:SER:HB3	1.89	0.55
1:G:157:ARG:C	1:H:140:LEU:CD1	2.69	0.55
1:H:258:LEU:HD13	1:H:310:ILE:HD11	1.89	0.55
1:H:323:GLU:HG2	1:H:439:SER:HB3	1.89	0.55
1:I:233:VAL:O	1:I:235:MET:CE	2.54	0.55
1:I:299:PRO:HD2	1:I:302:ILE:HD12	1.88	0.55
1:K:299:PRO:HG2	1:K:302:ILE:HD12	1.89	0.55
1:L:323:GLU:HG2	1:L:439:SER:HB3	1.89	0.55
1:M:325:LEU:HD23	1:M:325:LEU:O	2.06	0.55
1:M:478:LYS:NZ	1:N:455:GLU:OE2	2.38	0.55
1:N:310:ILE:O	1:N:314:ASP:HB2	2.06	0.55
1:N:442:VAL:HG13	1:N:488:PRO:CG	2.36	0.55
1:N:478:LYS:NZ	1:O:455:GLU:OE2	2.39	0.55
1:O:322:ILE:O	1:O:439:SER:HA	2.06	0.55
1:O:458:VAL:HG11	1:O:518:PHE:CZ	2.41	0.55
1:F:322:ILE:O	1:F:439:SER:HA	2.06	0.55
1:F:510:ALA:HB1	1:F:515:ASP:O	2.05	0.55
1:G:320:VAL:HG13	1:G:444:ASP:OD1	2.07	0.55
1:H:321:LEU:HD22	1:H:595:ILE:HG23	1.81	0.55
1:H:458:VAL:HG11	1:H:518:PHE:CZ	2.41	0.55
1:I:243:VAL:HG23	1:I:295:VAL:HG22	1.89	0.55
1:I:258:LEU:CB	1:I:285:ILE:HD13	2.37	0.55
1:I:287:ALA:HA	1:I:294:LEU:HA	1.87	0.55
1:J:233:VAL:O	1:J:235:MET:CE	2.54	0.55
1:J:323:GLU:HG2	1:J:439:SER:HB3	1.89	0.55
1:J:529:VAL:HG11	1:J:583:PRO:HD3	1.88	0.55
1:M:243:VAL:HG23	1:M:295:VAL:HG22	1.88	0.55
1:M:608:LEU:HD23	1:M:625:VAL:HG11	1.86	0.55
1:N:157:ARG:HD2	1:O:101:THR:HG21	1.89	0.55
1:O:527:VAL:HG21	1:O:537:LEU:HD21	1.88	0.55
1:A:328:GLU:CG	1:A:521:ARG:NH1	2.67	0.55
1:A:333:ASP:CG	1:C:618:MET:HE3	2.27	0.55
1:B:323:GLU:HG2	1:B:439:SER:HB3	1.88	0.55
1:C:500:ILE:HD13	1:C:537:LEU:CD1	2.36	0.55
1:D:283:VAL:HG21	1:D:302:ILE:HG21	1.88	0.55
1:D:322:ILE:O	1:D:439:SER:HA	2.06	0.55
1:E:157:ARG:O	1:F:140:LEU:HD11	1.96	0.55
1:G:157:ARG:CB	1:H:140:LEU:HD11	2.30	0.55
1:G:321:LEU:CD2	1:G:595:ILE:CG2	2.77	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:529:VAL:HG11	1:H:583:PRO:HD3	1.87	0.55
1:I:310:ILE:O	1:I:314:ASP:HB2	2.07	0.55
1:I:527:VAL:HG21	1:I:537:LEU:HD21	1.88	0.55
1:J:327:VAL:HG13	1:J:327:VAL:O	2.06	0.55
1:K:433:ASN:OD1	1:L:607:GLN:NE2	2.40	0.55
1:M:336:ASN:HB2	1:M:426:VAL:HG12	1.89	0.55
1:N:323:GLU:HG2	1:N:439:SER:HB3	1.89	0.55
1:N:325:LEU:O	1:N:325:LEU:HD23	2.06	0.55
1:N:355:THR:O	1:N:356:GLY:C	2.45	0.55
1:O:500:ILE:HD13	1:O:537:LEU:CD1	2.36	0.55
1:A:500:ILE:HD13	1:A:537:LEU:CD1	2.36	0.55
1:C:258:LEU:CB	1:C:285:ILE:HD13	2.37	0.55
1:E:327:VAL:O	1:E:327:VAL:HG13	2.06	0.55
1:H:442:VAL:HG13	1:H:488:PRO:CG	2.37	0.55
1:I:258:LEU:HD13	1:I:310:ILE:HD11	1.89	0.55
1:K:325:LEU:O	1:K:325:LEU:HD23	2.06	0.55
1:M:320:VAL:HG13	1:M:444:ASP:OD1	2.07	0.55
1:M:333:ASP:OD2	1:O:618:MET:CE	2.54	0.55
1:N:299:PRO:HG2	1:N:302:ILE:HD12	1.89	0.55
1:N:327:VAL:O	1:N:327:VAL:HG13	2.06	0.55
1:O:283:VAL:HG21	1:O:302:ILE:HG21	1.87	0.55
1:O:287:ALA:HA	1:O:294:LEU:HA	1.87	0.55
1:A:323:GLU:HG2	1:A:439:SER:HB3	1.89	0.55
1:B:131:VAL:HA	1:B:140:LEU:O	2.07	0.55
1:B:258:LEU:CB	1:B:285:ILE:HD13	2.37	0.55
1:B:299:PRO:HD2	1:B:302:ILE:HD12	1.88	0.55
1:B:458:VAL:HG11	1:B:518:PHE:CZ	2.41	0.55
1:C:106:VAL:CG1	1:C:108:ASN:OD1	2.55	0.55
1:C:161:ALA:CB	1:D:134:ASP:OD2	2.55	0.55
1:C:323:GLU:HG2	1:C:439:SER:HB3	1.89	0.55
1:C:458:VAL:HG11	1:C:518:PHE:CZ	2.41	0.55
1:C:527:VAL:HG21	1:C:537:LEU:HD21	1.89	0.55
1:D:299:PRO:HG2	1:D:302:ILE:HD12	1.89	0.55
1:D:478:LYS:NZ	1:E:455:GLU:OE2	2.40	0.55
1:E:283:VAL:HG21	1:E:302:ILE:HG21	1.88	0.55
1:E:310:ILE:O	1:E:314:ASP:HB2	2.07	0.55
1:E:320:VAL:HG13	1:E:444:ASP:OD1	2.07	0.55
1:E:529:VAL:HG11	1:E:583:PRO:HD3	1.88	0.55
1:F:106:VAL:CG1	1:F:108:ASN:OD1	2.55	0.55
1:F:131:VAL:HA	1:F:140:LEU:O	2.07	0.55
1:F:258:LEU:CB	1:F:285:ILE:HD13	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:258:LEU:HD13	1:F:310:ILE:HD11	1.89	0.55
1:F:320:VAL:HG13	1:F:444:ASP:OD1	2.06	0.55
1:G:106:VAL:CG1	1:G:108:ASN:OD1	2.55	0.55
1:G:204:VAL:HG12	1:G:205:ALA:H	1.70	0.55
1:G:521:ARG:CZ	1:G:577:LEU:CD1	2.85	0.55
1:H:521:ARG:CZ	1:H:577:LEU:CD1	2.85	0.55
1:I:521:ARG:CZ	1:I:577:LEU:CD1	2.85	0.55
1:I:529:VAL:HG11	1:I:583:PRO:HD3	1.88	0.55
1:K:500:ILE:HD13	1:K:537:LEU:CD1	2.36	0.55
1:L:310:ILE:O	1:L:314:ASP:HB2	2.06	0.55
1:M:106:VAL:CG1	1:M:108:ASN:OD1	2.55	0.55
1:O:176:ALA:O	1:O:179:MET:N	2.40	0.55
1:O:442:VAL:HG13	1:O:488:PRO:CG	2.36	0.55
1:A:176:ALA:O	1:A:179:MET:N	2.40	0.55
1:A:204:VAL:HG12	1:A:205:ALA:H	1.71	0.55
1:A:283:VAL:HG21	1:A:302:ILE:HG21	1.87	0.55
1:A:299:PRO:HG2	1:A:302:ILE:HD12	1.89	0.55
1:B:176:ALA:O	1:B:179:MET:N	2.40	0.55
1:B:299:PRO:HG2	1:B:302:ILE:HD12	1.89	0.55
1:C:442:VAL:HG13	1:C:488:PRO:CG	2.37	0.55
1:D:204:VAL:HG12	1:D:205:ALA:H	1.70	0.55
1:E:521:ARG:CZ	1:E:577:LEU:CD1	2.85	0.55
1:F:458:VAL:HG11	1:F:518:PHE:CZ	2.42	0.55
1:F:521:ARG:CZ	1:F:577:LEU:CD1	2.85	0.55
1:G:323:GLU:HG2	1:G:439:SER:HB3	1.89	0.55
1:G:458:VAL:HG11	1:G:518:PHE:CZ	2.41	0.55
1:H:106:VAL:CG1	1:H:108:ASN:OD1	2.55	0.55
1:H:176:ALA:O	1:H:179:MET:N	2.40	0.55
1:H:299:PRO:HG2	1:H:302:ILE:HD12	1.89	0.55
1:H:527:VAL:HG21	1:H:537:LEU:HD21	1.88	0.55
1:I:219:LYS:HZ1	1:J:105:ALA:HB2	1.71	0.55
1:I:442:VAL:HG13	1:I:488:PRO:CG	2.36	0.55
1:J:157:ARG:HD2	1:K:101:THR:HG21	1.88	0.55
1:J:157:ARG:C	1:K:140:LEU:CD1	2.69	0.55
1:J:161:ALA:CB	1:K:134:ASP:OD2	2.54	0.55
1:J:258:LEU:CB	1:J:285:ILE:HD13	2.37	0.55
1:J:328:GLU:CG	1:J:521:ARG:NH1	2.67	0.55
1:J:527:VAL:HG21	1:J:537:LEU:HD21	1.88	0.55
1:K:106:VAL:CG1	1:K:108:ASN:OD1	2.55	0.55
1:M:310:ILE:O	1:M:314:ASP:HB2	2.06	0.55
1:M:321:LEU:CD2	1:M:595:ILE:CG2	2.78	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:322:ILE:O	1:M:439:SER:HA	2.06	0.55
1:O:299:PRO:HG2	1:O:302:ILE:HD12	1.89	0.55
1:O:323:GLU:HG2	1:O:439:SER:HB3	1.89	0.55
1:A:106:VAL:CG1	1:A:108:ASN:OD1	2.55	0.54
1:C:131:VAL:HA	1:C:140:LEU:O	2.07	0.54
1:C:157:ARG:HD2	1:D:101:THR:HG21	1.89	0.54
1:E:106:VAL:CG1	1:E:108:ASN:OD1	2.55	0.54
1:F:299:PRO:HG2	1:F:302:ILE:HD12	1.89	0.54
1:G:299:PRO:HG2	1:G:302:ILE:HD12	1.89	0.54
1:G:478:LYS:NZ	1:H:455:GLU:OE2	2.40	0.54
1:I:299:PRO:HG2	1:I:302:ILE:HD12	1.89	0.54
1:I:333:ASP:OD2	1:K:618:MET:CE	2.54	0.54
1:J:131:VAL:HA	1:J:140:LEU:O	2.07	0.54
1:J:287:ALA:HA	1:J:294:LEU:HA	1.87	0.54
1:J:320:VAL:HG13	1:J:444:ASP:OD1	2.06	0.54
1:J:500:ILE:HD12	1:J:581:ILE:HD12	1.90	0.54
1:J:521:ARG:CZ	1:J:577:LEU:CD1	2.85	0.54
1:K:258:LEU:HD13	1:K:310:ILE:HD11	1.89	0.54
1:K:336:ASN:HB2	1:K:426:VAL:HG12	1.89	0.54
1:L:320:VAL:HG13	1:L:444:ASP:OD1	2.07	0.54
1:L:500:ILE:HD12	1:L:581:ILE:HD12	1.90	0.54
1:N:322:ILE:O	1:N:439:SER:HA	2.06	0.54
1:N:336:ASN:HB2	1:N:426:VAL:HG12	1.89	0.54
1:O:106:VAL:CG1	1:O:108:ASN:OD1	2.55	0.54
1:O:310:ILE:O	1:O:314:ASP:HB2	2.07	0.54
1:O:521:ARG:CZ	1:O:577:LEU:CD1	2.85	0.54
1:A:336:ASN:HB2	1:A:426:VAL:HG12	1.89	0.54
1:A:355:THR:O	1:A:356:GLY:C	2.46	0.54
1:A:478:LYS:NZ	1:B:455:GLU:OE2	2.40	0.54
1:B:106:VAL:CG1	1:B:108:ASN:OD1	2.55	0.54
1:C:321:LEU:CD2	1:C:595:ILE:HG23	2.38	0.54
1:D:458:VAL:HG11	1:D:518:PHE:CZ	2.41	0.54
1:E:500:ILE:HD13	1:E:537:LEU:CD1	2.36	0.54
1:F:319:GLN:HG3	1:F:586:ILE:HB	1.89	0.54
1:H:500:ILE:HD13	1:H:537:LEU:CD1	2.36	0.54
1:I:176:ALA:O	1:I:179:MET:N	2.40	0.54
1:I:179:MET:CE	1:I:227:LEU:HB3	2.34	0.54
1:I:322:ILE:O	1:I:439:SER:HA	2.06	0.54
1:K:478:LYS:NZ	1:L:455:GLU:OE2	2.40	0.54
1:L:321:LEU:CD2	1:L:595:ILE:CG2	2.78	0.54
1:M:299:PRO:HG2	1:M:302:ILE:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:321:LEU:CD2	1:O:595:ILE:HG23	2.37	0.54
1:O:336:ASN:HB2	1:O:426:VAL:HG12	1.89	0.54
1:A:258:LEU:CB	1:A:285:ILE:HD13	2.37	0.54
1:B:442:VAL:HG13	1:B:488:PRO:CG	2.36	0.54
1:E:131:VAL:HA	1:E:140:LEU:O	2.07	0.54
1:E:299:PRO:HG2	1:E:302:ILE:HD12	1.90	0.54
1:F:527:VAL:HG21	1:F:537:LEU:HD21	1.88	0.54
1:F:529:VAL:HG11	1:F:583:PRO:HD3	1.88	0.54
1:G:433:ASN:OD1	1:H:607:GLN:NE2	2.40	0.54
1:H:161:ALA:CB	1:I:134:ASP:OD2	2.56	0.54
1:H:243:VAL:HG23	1:H:295:VAL:HG22	1.89	0.54
1:H:310:ILE:O	1:H:314:ASP:HB2	2.06	0.54
1:H:322:ILE:O	1:H:439:SER:HA	2.06	0.54
1:H:442:VAL:HG11	1:H:488:PRO:CG	2.21	0.54
1:I:106:VAL:CG1	1:I:108:ASN:OD1	2.55	0.54
1:J:258:LEU:HD13	1:J:310:ILE:HD11	1.89	0.54
1:J:415:VAL:O	1:J:415:VAL:HG13	2.08	0.54
1:K:131:VAL:HA	1:K:140:LEU:O	2.07	0.54
1:K:310:ILE:O	1:K:314:ASP:HB2	2.06	0.54
1:K:320:VAL:HG13	1:K:444:ASP:OD1	2.07	0.54
1:K:527:VAL:HG21	1:K:537:LEU:HD21	1.88	0.54
1:M:204:VAL:CG1	1:M:205:ALA:H	2.20	0.54
1:M:319:GLN:HG3	1:M:586:ILE:HB	1.89	0.54
1:N:157:ARG:O	1:O:140:LEU:HD11	1.99	0.54
1:N:243:VAL:HG23	1:N:295:VAL:HG22	1.88	0.54
1:N:258:LEU:HD13	1:N:310:ILE:HD11	1.89	0.54
1:O:320:VAL:HG13	1:O:444:ASP:OD1	2.07	0.54
1:A:608:LEU:HD23	1:A:625:VAL:HG11	1.87	0.54
1:B:321:LEU:CD2	1:B:595:ILE:HG23	2.38	0.54
1:B:333:ASP:OD2	1:D:618:MET:CE	2.55	0.54
1:C:204:VAL:CG1	1:C:205:ALA:H	2.20	0.54
1:C:299:PRO:HG2	1:C:302:ILE:HD12	1.89	0.54
1:D:258:LEU:CB	1:D:285:ILE:HD13	2.37	0.54
1:D:321:LEU:CD2	1:D:595:ILE:HG23	2.38	0.54
1:E:322:ILE:O	1:E:439:SER:HA	2.06	0.54
1:F:442:VAL:HG13	1:F:488:PRO:CG	2.36	0.54
1:F:500:ILE:HD12	1:F:581:ILE:HD12	1.90	0.54
1:I:500:ILE:HD12	1:I:581:ILE:HD12	1.90	0.54
1:J:173:ASN:ND2	1:J:235:MET:HE1	2.22	0.54
1:K:355:THR:O	1:K:356:GLY:C	2.45	0.54
1:L:299:PRO:HG2	1:L:302:ILE:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:521:ARG:CZ	1:M:577:LEU:CD1	2.85	0.54
1:N:204:VAL:CG1	1:N:205:ALA:H	2.20	0.54
1:N:258:LEU:CB	1:N:285:ILE:HD13	2.37	0.54
1:O:204:VAL:CG1	1:O:205:ALA:H	2.20	0.54
1:A:101:THR:HG21	1:O:157:ARG:HD2	1.90	0.54
1:A:131:VAL:HA	1:A:140:LEU:O	2.07	0.54
1:A:214:ILE:HD11	1:A:220:VAL:HG13	1.72	0.54
1:A:321:LEU:CD2	1:A:595:ILE:HG23	2.38	0.54
1:A:433:ASN:OD1	1:B:607:GLN:NE2	2.41	0.54
1:A:608:LEU:HD21	1:A:625:VAL:HG11	1.90	0.54
1:B:320:VAL:HG13	1:B:444:ASP:OD1	2.06	0.54
1:B:355:THR:O	1:B:356:GLY:C	2.45	0.54
1:B:521:ARG:CZ	1:B:577:LEU:CD1	2.85	0.54
1:C:176:ALA:O	1:C:179:MET:N	2.40	0.54
1:C:478:LYS:NZ	1:D:455:GLU:OE2	2.40	0.54
1:D:176:ALA:O	1:D:179:MET:N	2.40	0.54
1:D:258:LEU:HD13	1:D:310:ILE:HD11	1.89	0.54
1:D:323:GLU:HG2	1:D:439:SER:HB3	1.89	0.54
1:D:489:GLN:O	1:D:489:GLN:CG	2.47	0.54
1:G:131:VAL:HA	1:G:140:LEU:O	2.07	0.54
1:G:325:LEU:HD23	1:G:325:LEU:O	2.06	0.54
1:G:529:VAL:HG11	1:G:583:PRO:HD3	1.88	0.54
1:H:478:LYS:NZ	1:I:455:GLU:OE2	2.40	0.54
1:I:131:VAL:HA	1:I:140:LEU:O	2.07	0.54
1:I:326:ILE:CD1	1:I:502:GLN:NE2	2.67	0.54
1:J:336:ASN:HB2	1:J:426:VAL:HG12	1.89	0.54
1:J:355:THR:O	1:J:356:GLY:C	2.45	0.54
1:K:233:VAL:O	1:K:235:MET:CE	2.54	0.54
1:L:336:ASN:HB2	1:L:426:VAL:HG12	1.89	0.54
1:L:606:GLU:OE2	1:M:635:HIS:HD2	1.91	0.54
1:M:500:ILE:HD12	1:M:581:ILE:HD12	1.90	0.54
1:O:489:GLN:O	1:O:489:GLN:CG	2.47	0.54
1:A:310:ILE:O	1:A:314:ASP:HB2	2.06	0.54
1:B:500:ILE:HD13	1:B:537:LEU:CD1	2.36	0.54
1:D:106:VAL:CG1	1:D:108:ASN:OD1	2.55	0.54
1:D:442:VAL:HG13	1:D:488:PRO:CG	2.37	0.54
1:E:258:LEU:HD13	1:E:310:ILE:HD11	1.89	0.54
1:F:243:VAL:HG23	1:F:295:VAL:HG22	1.89	0.54
1:F:521:ARG:NE	1:F:577:LEU:HD11	2.23	0.54
1:F:640:GLN:NE2	1:F:643:ILE:CG2	2.71	0.54
1:G:157:ARG:HD2	1:H:101:THR:HG21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:176:ALA:O	1:G:179:MET:N	2.40	0.54
1:G:258:LEU:CB	1:G:285:ILE:HD13	2.37	0.54
1:G:500:ILE:HD12	1:G:581:ILE:HD12	1.90	0.54
1:G:527:VAL:HG21	1:G:537:LEU:HD21	1.88	0.54
1:H:500:ILE:HD12	1:H:581:ILE:HD12	1.90	0.54
1:H:606:GLU:OE2	1:I:635:HIS:HD2	1.90	0.54
1:H:614:GLY:O	1:H:615:LEU:C	2.46	0.54
1:J:325:LEU:HD23	1:J:325:LEU:O	2.06	0.54
1:J:333:ASP:OD2	1:L:618:MET:CE	2.55	0.54
1:K:176:ALA:O	1:K:179:MET:N	2.40	0.54
1:K:500:ILE:HD12	1:K:581:ILE:HD12	1.90	0.54
1:L:131:VAL:HA	1:L:140:LEU:O	2.07	0.54
1:L:319:GLN:HG3	1:L:586:ILE:HB	1.90	0.54
1:L:442:VAL:HG13	1:L:488:PRO:CG	2.37	0.54
1:L:478:LYS:NZ	1:M:455:GLU:OE2	2.39	0.54
1:M:131:VAL:HA	1:M:140:LEU:O	2.07	0.54
1:M:176:ALA:O	1:M:179:MET:N	2.40	0.54
1:N:214:ILE:HD11	1:N:220:VAL:HG13	1.72	0.54
1:D:243:VAL:HG23	1:D:295:VAL:HG22	1.89	0.54
1:D:521:ARG:CZ	1:D:577:LEU:CD1	2.85	0.54
1:D:527:VAL:HG21	1:D:537:LEU:HD21	1.88	0.54
1:E:500:ILE:HD12	1:E:581:ILE:HD12	1.90	0.54
1:G:531:ASP:OD1	1:G:585:ILE:HB	2.08	0.54
1:I:415:VAL:HG13	1:I:415:VAL:O	2.08	0.54
1:J:106:VAL:CG1	1:J:108:ASN:OD1	2.55	0.54
1:K:319:GLN:HG3	1:K:586:ILE:HB	1.90	0.54
1:K:521:ARG:CZ	1:K:577:LEU:CD1	2.85	0.54
1:L:258:LEU:HD13	1:L:310:ILE:HD11	1.89	0.54
1:L:521:ARG:NE	1:L:577:LEU:HD11	2.23	0.54
1:M:355:THR:O	1:M:356:GLY:C	2.46	0.54
1:M:415:VAL:O	1:M:415:VAL:HG13	2.08	0.54
1:N:106:VAL:CG1	1:N:108:ASN:OD1	2.55	0.54
1:N:319:GLN:HG3	1:N:586:ILE:HB	1.89	0.54
1:N:527:VAL:HG21	1:N:537:LEU:HD21	1.88	0.54
1:O:258:LEU:HD13	1:O:310:ILE:HD11	1.89	0.54
1:A:204:VAL:CG1	1:A:205:ALA:H	2.20	0.54
1:B:640:GLN:NE2	1:B:643:ILE:CG2	2.71	0.54
1:D:310:ILE:O	1:D:314:ASP:HB2	2.07	0.54
1:D:320:VAL:HG13	1:D:444:ASP:OD1	2.07	0.54
1:D:521:ARG:HD2	1:D:577:LEU:CD1	2.38	0.54
1:E:243:VAL:HG23	1:E:295:VAL:HG22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:521:ARG:NE	1:E:577:LEU:HD11	2.23	0.54
1:F:415:VAL:HG13	1:F:415:VAL:O	2.08	0.54
1:F:497:GLN:O	1:F:497:GLN:HG2	2.08	0.54
1:G:243:VAL:HG23	1:G:295:VAL:HG22	1.88	0.54
1:G:614:GLY:O	1:G:615:LEU:C	2.46	0.54
1:I:614:GLY:O	1:I:615:LEU:C	2.46	0.54
1:J:319:GLN:HG3	1:J:586:ILE:HB	1.90	0.54
1:J:640:GLN:NE2	1:J:643:ILE:CG2	2.71	0.54
1:K:531:ASP:OD1	1:K:585:ILE:HB	2.08	0.54
1:K:640:GLN:NE2	1:K:643:ILE:CG2	2.71	0.54
1:L:433:ASN:OD1	1:M:607:GLN:NE2	2.40	0.54
1:L:497:GLN:HG3	1:M:443:MET:HE2	1.90	0.54
1:L:614:GLY:O	1:L:615:LEU:C	2.46	0.54
1:L:640:GLN:NE2	1:L:643:ILE:CG2	2.71	0.54
1:M:258:LEU:HD13	1:M:310:ILE:HD11	1.89	0.54
1:M:521:ARG:NE	1:M:577:LEU:HD11	2.23	0.54
1:N:103:VAL:HA	1:N:139:ILE:O	2.08	0.54
1:N:131:VAL:HA	1:N:140:LEU:O	2.07	0.54
1:N:321:LEU:CD2	1:N:595:ILE:HG23	2.38	0.54
1:N:521:ARG:CZ	1:N:577:LEU:CD1	2.85	0.54
1:O:103:VAL:HA	1:O:139:ILE:O	2.08	0.54
1:A:217:ASP:O	1:A:221:ARG:HG3	2.08	0.54
1:A:333:ASP:OD2	1:C:618:MET:CE	2.55	0.54
1:A:521:ARG:NE	1:A:577:LEU:HD11	2.23	0.54
1:B:103:VAL:HA	1:B:139:ILE:O	2.08	0.54
1:C:217:ASP:O	1:C:221:ARG:HG3	2.08	0.54
1:C:243:VAL:HG23	1:C:295:VAL:HG22	1.89	0.54
1:C:258:LEU:HD13	1:C:310:ILE:HD11	1.89	0.54
1:D:500:ILE:HD12	1:D:581:ILE:HD12	1.90	0.54
1:E:319:GLN:HG3	1:E:586:ILE:HB	1.90	0.54
1:E:640:GLN:NE2	1:E:643:ILE:CG2	2.71	0.54
1:G:217:ASP:O	1:G:221:ARG:HG3	2.08	0.54
1:G:521:ARG:NE	1:G:577:LEU:HD11	2.23	0.54
1:H:157:ARG:HD2	1:I:101:THR:HG21	1.89	0.54
1:H:214:ILE:CD1	1:H:220:VAL:CG1	2.48	0.54
1:I:640:GLN:NE2	1:I:643:ILE:CG2	2.71	0.54
1:K:614:GLY:O	1:K:615:LEU:C	2.46	0.54
1:L:161:ALA:CB	1:M:134:ASP:OD2	2.55	0.54
1:L:173:ASN:ND2	1:L:235:MET:HE1	2.23	0.54
1:L:521:ARG:CZ	1:L:577:LEU:CD1	2.85	0.54
1:L:527:VAL:HG21	1:L:537:LEU:HD21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:103:VAL:HA	1:M:139:ILE:O	2.08	0.54
1:M:640:GLN:NE2	1:M:643:ILE:CG2	2.71	0.54
1:N:176:ALA:O	1:N:179:MET:N	2.40	0.54
1:B:497:GLN:HG3	1:C:443:MET:HE2	1.90	0.54
1:B:608:LEU:HD21	1:B:625:VAL:HG11	1.91	0.54
1:C:103:VAL:HA	1:C:139:ILE:O	2.08	0.54
1:C:415:VAL:O	1:C:415:VAL:HG13	2.08	0.54
1:C:608:LEU:HD21	1:C:625:VAL:HG11	1.90	0.54
1:E:328:GLU:CG	1:E:521:ARG:NH1	2.67	0.54
1:E:497:GLN:HG2	1:E:497:GLN:O	2.08	0.54
1:E:505:SER:HA	1:E:519:ALA:O	2.08	0.54
1:E:531:ASP:OD1	1:E:585:ILE:HB	2.08	0.54
1:G:640:GLN:NE2	1:G:643:ILE:CG2	2.71	0.54
1:H:120:GLN:O	1:H:124:ASN:N	2.34	0.54
1:H:157:ARG:CB	1:I:140:LEU:HD11	2.32	0.54
1:H:521:ARG:NE	1:H:577:LEU:HD11	2.23	0.54
1:H:531:ASP:OD1	1:H:585:ILE:HB	2.08	0.54
1:I:103:VAL:HA	1:I:139:ILE:O	2.08	0.54
1:J:614:GLY:O	1:J:615:LEU:C	2.46	0.54
1:K:103:VAL:HA	1:K:139:ILE:O	2.08	0.54
1:K:321:LEU:CD2	1:K:595:ILE:CG2	2.77	0.54
1:K:521:ARG:NE	1:K:577:LEU:HD11	2.23	0.54
1:L:106:VAL:CG1	1:L:108:ASN:OD1	2.55	0.54
1:L:176:ALA:O	1:L:179:MET:N	2.40	0.54
1:L:217:ASP:O	1:L:221:ARG:HG3	2.08	0.54
1:L:321:LEU:CD2	1:L:595:ILE:HG23	2.38	0.54
1:N:217:ASP:O	1:N:221:ARG:HG3	2.08	0.54
1:N:330:ALA:O	1:N:432:SER:N	2.41	0.54
1:N:500:ILE:HD12	1:N:581:ILE:HD12	1.90	0.54
1:O:640:GLN:NE2	1:O:643:ILE:CG2	2.71	0.54
1:A:606:GLU:OE2	1:B:635:HIS:HD2	1.91	0.53
1:B:336:ASN:HB2	1:B:426:VAL:HG12	1.89	0.53
1:B:497:GLN:HG2	1:B:497:GLN:O	2.08	0.53
1:D:521:ARG:NE	1:D:577:LEU:HD11	2.23	0.53
1:D:640:GLN:NE2	1:D:643:ILE:CG2	2.71	0.53
1:E:527:VAL:HG21	1:E:537:LEU:HD21	1.88	0.53
1:F:531:ASP:OD1	1:F:585:ILE:HB	2.08	0.53
1:H:217:ASP:O	1:H:221:ARG:HG3	2.08	0.53
1:H:640:GLN:NE2	1:H:643:ILE:CG2	2.71	0.53
1:I:336:ASN:HB2	1:I:426:VAL:HG12	1.89	0.53
1:J:531:ASP:OD1	1:J:585:ILE:HB	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:258:LEU:CB	1:K:285:ILE:HD13	2.37	0.53
1:K:321:LEU:CD2	1:K:595:ILE:HG23	2.37	0.53
1:L:103:VAL:HA	1:L:139:ILE:O	2.08	0.53
1:O:214:ILE:HD11	1:O:220:VAL:HG13	1.72	0.53
1:A:103:VAL:HA	1:A:139:ILE:O	2.09	0.53
1:B:531:ASP:OD1	1:B:585:ILE:HB	2.08	0.53
1:C:433:ASN:OD1	1:D:607:GLN:NE2	2.41	0.53
1:C:500:ILE:HD12	1:C:581:ILE:HD12	1.90	0.53
1:C:640:GLN:NE2	1:C:643:ILE:CG2	2.71	0.53
1:D:103:VAL:HA	1:D:139:ILE:O	2.08	0.53
1:D:217:ASP:O	1:D:221:ARG:HG3	2.08	0.53
1:F:336:ASN:HB2	1:F:426:VAL:HG12	1.89	0.53
1:I:523:LEU:HD11	1:J:440:ILE:HD12	1.73	0.53
1:J:157:ARG:O	1:K:140:LEU:HD11	1.98	0.53
1:L:204:VAL:CG1	1:L:205:ALA:H	2.20	0.53
1:L:531:ASP:OD1	1:L:585:ILE:HB	2.08	0.53
1:M:527:VAL:HG21	1:M:537:LEU:HD21	1.88	0.53
1:A:521:ARG:CZ	1:A:577:LEU:CD1	2.85	0.53
1:A:521:ARG:HD2	1:A:577:LEU:CD1	2.38	0.53
1:A:531:ASP:OD1	1:A:585:ILE:HB	2.08	0.53
1:A:618:MET:CE	1:N:333:ASP:OD2	2.56	0.53
1:B:212:ILE:HG21	1:B:228:ILE:CG1	2.38	0.53
1:B:243:VAL:HG23	1:B:295:VAL:HG22	1.89	0.53
1:B:500:ILE:HD12	1:B:581:ILE:HD12	1.90	0.53
1:C:497:GLN:O	1:C:497:GLN:HG2	2.08	0.53
1:C:553:PRO:CG	1:D:425:ALA:HB1	2.35	0.53
1:C:614:GLY:O	1:C:615:LEU:C	2.46	0.53
1:D:131:VAL:HA	1:D:140:LEU:O	2.07	0.53
1:D:505:SER:HA	1:D:519:ALA:O	2.09	0.53
1:E:176:ALA:O	1:E:179:MET:N	2.40	0.53
1:F:176:ALA:O	1:F:179:MET:N	2.40	0.53
1:G:319:GLN:HG3	1:G:586:ILE:HB	1.90	0.53
1:G:497:GLN:HG2	1:G:497:GLN:O	2.08	0.53
1:H:131:VAL:HA	1:H:140:LEU:O	2.07	0.53
1:H:245:TYR:CD1	1:H:293:SER:CB	2.92	0.53
1:H:521:ARG:HD2	1:H:577:LEU:CD1	2.38	0.53
1:I:531:ASP:OD1	1:I:585:ILE:HB	2.09	0.53
1:J:176:ALA:O	1:J:179:MET:N	2.40	0.53
1:J:497:GLN:HG2	1:J:497:GLN:O	2.08	0.53
1:O:608:LEU:HD21	1:O:625:VAL:HG11	1.90	0.53
1:A:500:ILE:HD12	1:A:581:ILE:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:217:ASP:O	1:B:221:ARG:HG3	2.08	0.53
1:C:521:ARG:CZ	1:C:577:LEU:CD1	2.85	0.53
1:C:606:GLU:OE2	1:D:635:HIS:HD2	1.92	0.53
1:D:355:THR:O	1:D:356:GLY:C	2.45	0.53
1:E:103:VAL:HA	1:E:139:ILE:O	2.08	0.53
1:E:204:VAL:CG1	1:E:205:ALA:H	2.20	0.53
1:E:333:ASP:OD2	1:G:618:MET:CE	2.55	0.53
1:E:336:ASN:HB2	1:E:426:VAL:HG12	1.89	0.53
1:E:433:ASN:OD1	1:F:607:GLN:NE2	2.42	0.53
1:G:336:ASN:HB2	1:G:426:VAL:HG12	1.89	0.53
1:H:103:VAL:HA	1:H:139:ILE:O	2.08	0.53
1:I:355:THR:O	1:I:356:GLY:C	2.46	0.53
1:K:204:VAL:HG12	1:K:205:ALA:H	1.71	0.53
1:K:217:ASP:O	1:K:221:ARG:HG3	2.08	0.53
1:M:321:LEU:CD2	1:M:595:ILE:HG23	2.38	0.53
1:N:521:ARG:NE	1:N:577:LEU:HD11	2.23	0.53
1:O:243:VAL:HG23	1:O:295:VAL:HG22	1.88	0.53
1:O:330:ALA:O	1:O:432:SER:N	2.41	0.53
1:O:500:ILE:HD12	1:O:581:ILE:HD12	1.90	0.53
1:A:455:GLU:OE2	1:O:478:LYS:NZ	2.41	0.53
1:A:497:GLN:O	1:A:497:GLN:HG2	2.08	0.53
1:B:415:VAL:O	1:B:415:VAL:HG13	2.08	0.53
1:B:614:GLY:O	1:B:615:LEU:C	2.46	0.53
1:C:531:ASP:OD1	1:C:585:ILE:HB	2.08	0.53
1:E:120:GLN:O	1:E:124:ASN:N	2.34	0.53
1:E:355:THR:O	1:E:356:GLY:C	2.45	0.53
1:F:173:ASN:ND2	1:F:235:MET:HE1	2.24	0.53
1:F:614:GLY:O	1:F:615:LEU:C	2.46	0.53
1:G:120:GLN:O	1:G:124:ASN:N	2.34	0.53
1:H:336:ASN:HB2	1:H:426:VAL:HG12	1.89	0.53
1:I:157:ARG:O	1:J:140:LEU:HD11	1.99	0.53
1:I:204:VAL:CG1	1:I:205:ALA:H	2.20	0.53
1:I:319:GLN:HG3	1:I:586:ILE:HB	1.90	0.53
1:N:415:VAL:HG13	1:N:415:VAL:O	2.08	0.53
1:N:640:GLN:NE2	1:N:643:ILE:CG2	2.71	0.53
1:A:258:LEU:HD13	1:A:310:ILE:HD11	1.90	0.53
1:B:258:LEU:HD13	1:B:310:ILE:HD11	1.89	0.53
1:D:111:VAL:HG21	1:D:139:ILE:HD11	1.91	0.53
1:E:321:LEU:CD2	1:E:595:ILE:HG23	2.38	0.53
1:E:521:ARG:HD2	1:E:577:LEU:CD1	2.38	0.53
1:F:204:VAL:CG1	1:F:205:ALA:H	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:505:SER:HA	1:F:519:ALA:O	2.09	0.53
1:G:521:ARG:HD2	1:G:577:LEU:CD1	2.38	0.53
1:I:321:LEU:CD2	1:I:595:ILE:HG23	2.38	0.53
1:I:497:GLN:O	1:I:497:GLN:HG2	2.09	0.53
1:I:521:ARG:HD2	1:I:577:LEU:CD1	2.38	0.53
1:J:103:VAL:HA	1:J:139:ILE:O	2.08	0.53
1:J:219:LYS:HZ2	1:K:105:ALA:HB2	1.72	0.53
1:J:521:ARG:HD2	1:J:577:LEU:CD1	2.38	0.53
1:K:505:SER:HA	1:K:519:ALA:O	2.09	0.53
1:L:233:VAL:O	1:L:235:MET:CE	2.54	0.53
1:L:328:GLU:CG	1:L:521:ARG:NH1	2.67	0.53
1:L:355:THR:O	1:L:356:GLY:C	2.45	0.53
1:M:157:ARG:O	1:N:140:LEU:HD11	1.96	0.53
1:M:614:GLY:O	1:M:615:LEU:C	2.46	0.53
1:N:141:ILE:HG22	1:N:148:VAL:HG22	1.91	0.53
1:O:131:VAL:HA	1:O:140:LEU:O	2.07	0.53
1:B:245:TYR:CD1	1:B:293:SER:CB	2.92	0.53
1:B:521:ARG:NE	1:B:577:LEU:HD11	2.23	0.53
1:C:319:GLN:HG3	1:C:586:ILE:HB	1.90	0.53
1:C:355:THR:O	1:C:356:GLY:C	2.45	0.53
1:D:204:VAL:CG1	1:D:205:ALA:H	2.20	0.53
1:D:206:ASP:O	1:D:210:ASN:CA	2.57	0.53
1:D:319:GLN:HG3	1:D:586:ILE:HB	1.90	0.53
1:D:498:LEU:HD13	1:D:581:ILE:HD11	1.91	0.53
1:D:608:LEU:HD21	1:D:625:VAL:HG11	1.91	0.53
1:F:120:GLN:O	1:F:124:ASN:N	2.34	0.53
1:F:355:THR:O	1:F:356:GLY:C	2.45	0.53
1:F:521:ARG:HD2	1:F:577:LEU:CD1	2.38	0.53
1:G:442:VAL:HG13	1:G:488:PRO:CG	2.37	0.53
1:H:505:SER:HA	1:H:519:ALA:O	2.09	0.53
1:I:120:GLN:O	1:I:124:ASN:N	2.34	0.53
1:J:217:ASP:O	1:J:221:ARG:HG3	2.09	0.53
1:J:321:LEU:CD2	1:J:595:ILE:HG23	2.38	0.53
1:J:521:ARG:NE	1:J:577:LEU:HD11	2.23	0.53
1:K:141:ILE:HG22	1:K:148:VAL:HG22	1.91	0.53
1:K:415:VAL:O	1:K:415:VAL:HG13	2.09	0.53
1:L:141:ILE:HG22	1:L:148:VAL:HG22	1.91	0.53
1:L:352:TYR:CD2	1:L:567:SER:CB	2.92	0.53
1:L:415:VAL:HG13	1:L:415:VAL:O	2.09	0.53
1:M:217:ASP:O	1:M:221:ARG:HG3	2.08	0.53
1:M:330:ALA:O	1:M:432:SER:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:505:SER:HA	1:N:519:ALA:O	2.09	0.53
1:N:606:GLU:OE2	1:O:635:HIS:HD2	1.92	0.53
1:N:608:LEU:HD21	1:N:625:VAL:HG11	1.90	0.53
1:O:141:ILE:HG22	1:O:148:VAL:HG22	1.91	0.53
1:A:243:VAL:HG23	1:A:295:VAL:HG22	1.89	0.53
1:A:321:LEU:CD2	1:A:595:ILE:CG2	2.78	0.53
1:A:505:SER:HA	1:A:519:ALA:O	2.09	0.53
1:B:206:ASP:O	1:B:210:ASN:CA	2.57	0.53
1:B:553:PRO:CG	1:C:425:ALA:HB1	2.35	0.53
1:B:602:TYR:CD1	1:C:635:HIS:CD2	2.97	0.53
1:C:111:VAL:HG21	1:C:139:ILE:HD11	1.91	0.53
1:C:336:ASN:HB2	1:C:426:VAL:HG12	1.89	0.53
1:D:245:TYR:CD1	1:D:293:SER:CB	2.92	0.53
1:D:336:ASN:HB2	1:D:426:VAL:HG12	1.89	0.53
1:E:111:VAL:HG21	1:E:139:ILE:HD11	1.91	0.53
1:E:212:ILE:HG21	1:E:228:ILE:CG1	2.39	0.53
1:F:111:VAL:HG21	1:F:139:ILE:HD11	1.91	0.53
1:F:217:ASP:O	1:F:221:ARG:HG3	2.08	0.53
1:F:233:VAL:O	1:F:235:MET:CE	2.54	0.53
1:F:333:ASP:OD2	1:H:618:MET:CE	2.55	0.53
1:G:157:ARG:O	1:H:140:LEU:HD13	2.00	0.53
1:G:355:THR:O	1:G:356:GLY:C	2.45	0.53
1:G:415:VAL:HG13	1:G:415:VAL:O	2.09	0.53
1:H:141:ILE:HG22	1:H:148:VAL:HG22	1.91	0.53
1:H:258:LEU:CB	1:H:285:ILE:HD13	2.37	0.53
1:H:321:LEU:CD2	1:H:595:ILE:HG23	2.38	0.53
1:I:328:GLU:CG	1:I:521:ARG:NH1	2.67	0.53
1:K:497:GLN:O	1:K:497:GLN:HG2	2.08	0.53
1:M:505:SER:HA	1:M:519:ALA:O	2.09	0.53
1:N:614:GLY:O	1:N:615:LEU:C	2.46	0.53
1:O:183:VAL:O	1:O:186:LEU:HB2	2.09	0.53
1:O:521:ARG:NE	1:O:577:LEU:HD11	2.23	0.53
1:A:212:ILE:HG21	1:A:228:ILE:CG1	2.38	0.53
1:B:214:ILE:CD1	1:B:220:VAL:CG1	2.48	0.53
1:B:319:GLN:HG3	1:B:586:ILE:HB	1.89	0.53
1:C:245:TYR:CD1	1:C:293:SER:CB	2.92	0.53
1:E:173:ASN:ND2	1:E:235:MET:HE1	2.24	0.53
1:F:206:ASP:O	1:F:210:ASN:CA	2.57	0.53
1:F:354:ASN:OD1	1:F:355:THR:N	2.42	0.53
1:G:245:TYR:CD1	1:G:293:SER:CB	2.92	0.53
1:J:141:ILE:HG22	1:J:148:VAL:HG22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:352:TYR:CD2	1:J:567:SER:CB	2.92	0.53
1:K:183:VAL:O	1:K:186:LEU:HB2	2.09	0.53
1:L:505:SER:HA	1:L:519:ALA:O	2.09	0.53
1:M:212:ILE:HG21	1:M:228:ILE:CG1	2.39	0.53
1:M:531:ASP:OD1	1:M:585:ILE:HB	2.08	0.53
1:O:217:ASP:O	1:O:221:ARG:HG3	2.08	0.53
1:O:531:ASP:OD1	1:O:585:ILE:HB	2.08	0.53
1:A:141:ILE:HG22	1:A:148:VAL:HG22	1.91	0.53
1:B:498:LEU:HD13	1:B:581:ILE:HD11	1.91	0.53
1:B:521:ARG:HD2	1:B:577:LEU:CD1	2.38	0.53
1:D:553:PRO:CG	1:E:425:ALA:HB1	2.36	0.53
1:D:614:GLY:O	1:D:615:LEU:C	2.46	0.53
1:E:245:TYR:CD1	1:E:293:SER:CB	2.92	0.53
1:E:415:VAL:O	1:E:415:VAL:HG13	2.08	0.53
1:G:111:VAL:HG21	1:G:139:ILE:HD11	1.91	0.53
1:H:206:ASP:O	1:H:210:ASN:CA	2.57	0.53
1:H:415:VAL:O	1:H:415:VAL:HG13	2.09	0.53
1:J:326:ILE:CD1	1:J:502:GLN:NE2	2.67	0.53
1:K:352:TYR:CD2	1:K:567:SER:CB	2.92	0.53
1:L:212:ILE:HG21	1:L:228:ILE:CG1	2.39	0.53
1:L:333:ASP:OD2	1:N:618:MET:CE	2.56	0.53
1:M:141:ILE:HG22	1:M:148:VAL:HG22	1.91	0.53
1:M:352:TYR:CD2	1:M:567:SER:CB	2.92	0.53
1:N:521:ARG:HD2	1:N:577:LEU:CD1	2.38	0.53
1:O:206:ASP:O	1:O:210:ASN:CA	2.57	0.53
1:O:245:TYR:CD1	1:O:293:SER:CB	2.92	0.53
1:O:328:GLU:CG	1:O:521:ARG:NH1	2.67	0.53
1:A:440:ILE:HD12	1:O:523:LEU:HD11	1.74	0.52
1:B:618:MET:CE	1:O:333:ASP:OD2	2.57	0.52
1:C:521:ARG:NE	1:C:577:LEU:HD11	2.23	0.52
1:E:183:VAL:O	1:E:186:LEU:HB2	2.09	0.52
1:E:417:GLY:O	1:E:418:ASP:CB	2.57	0.52
1:F:103:VAL:HA	1:F:139:ILE:O	2.08	0.52
1:G:206:ASP:O	1:G:210:ASN:CA	2.57	0.52
1:G:321:LEU:CD2	1:G:595:ILE:HG23	2.38	0.52
1:G:354:ASN:OD1	1:G:355:THR:N	2.42	0.52
1:H:183:VAL:O	1:H:186:LEU:HB2	2.09	0.52
1:I:141:ILE:HG22	1:I:148:VAL:HG22	1.91	0.52
1:I:206:ASP:O	1:I:210:ASN:CA	2.57	0.52
1:I:505:SER:HA	1:I:519:ALA:O	2.09	0.52
1:I:521:ARG:NE	1:I:577:LEU:HD11	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:102:ARG:HD2	1:J:148:VAL:HG12	1.91	0.52
1:J:354:ASN:OD1	1:J:355:THR:N	2.42	0.52
1:J:606:GLU:OE2	1:K:635:HIS:HD2	1.92	0.52
1:K:608:LEU:HD21	1:K:625:VAL:HG11	1.90	0.52
1:L:138:ILE:CG2	1:L:139:ILE:N	2.71	0.52
1:L:521:ARG:HD2	1:L:577:LEU:CD1	2.38	0.52
1:M:183:VAL:O	1:M:186:LEU:HB2	2.09	0.52
1:M:521:ARG:HD2	1:M:577:LEU:CD1	2.39	0.52
1:N:531:ASP:OD1	1:N:585:ILE:HB	2.08	0.52
1:O:497:GLN:HG2	1:O:497:GLN:O	2.08	0.52
1:A:417:GLY:O	1:A:418:ASP:CB	2.58	0.52
1:A:640:GLN:NE2	1:A:643:ILE:CG2	2.71	0.52
1:B:141:ILE:HG22	1:B:148:VAL:HG22	1.91	0.52
1:C:323:GLU:HG2	1:C:439:SER:CB	2.40	0.52
1:C:521:ARG:HD2	1:C:577:LEU:CD1	2.38	0.52
1:D:120:GLN:O	1:D:124:ASN:N	2.34	0.52
1:D:497:GLN:O	1:D:497:GLN:HG2	2.08	0.52
1:E:217:ASP:O	1:E:221:ARG:HG3	2.08	0.52
1:E:442:VAL:HG13	1:E:488:PRO:CG	2.37	0.52
1:G:204:VAL:CG1	1:G:205:ALA:H	2.20	0.52
1:H:354:ASN:OD1	1:H:355:THR:N	2.42	0.52
1:H:497:GLN:HG2	1:H:497:GLN:O	2.08	0.52
1:H:608:LEU:HD21	1:H:625:VAL:HG11	1.90	0.52
1:I:354:ASN:OD1	1:I:355:THR:N	2.42	0.52
1:J:608:LEU:HD21	1:J:625:VAL:HG11	1.90	0.52
1:K:111:VAL:HG21	1:K:139:ILE:HD11	1.91	0.52
1:M:111:VAL:HG21	1:M:139:ILE:HD11	1.91	0.52
1:N:204:VAL:HG12	1:N:205:ALA:H	1.71	0.52
1:O:354:ASN:OD1	1:O:355:THR:N	2.42	0.52
1:O:521:ARG:HD2	1:O:577:LEU:CD1	2.38	0.52
1:A:614:GLY:O	1:A:615:LEU:C	2.46	0.52
1:A:617:LEU:HD11	1:N:337:LEU:HB3	1.92	0.52
1:B:183:VAL:O	1:B:186:LEU:HB2	2.10	0.52
1:B:505:SER:HA	1:B:519:ALA:O	2.09	0.52
1:C:141:ILE:HG22	1:C:148:VAL:HG22	1.91	0.52
1:C:212:ILE:HG21	1:C:228:ILE:CG1	2.38	0.52
1:D:212:ILE:HG21	1:D:228:ILE:CG1	2.39	0.52
1:D:415:VAL:HG13	1:D:415:VAL:O	2.10	0.52
1:D:531:ASP:OD1	1:D:585:ILE:HB	2.08	0.52
1:F:212:ILE:HG21	1:F:228:ILE:CG1	2.38	0.52
1:F:602:TYR:CD1	1:G:635:HIS:CD2	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:183:VAL:O	1:G:186:LEU:HB2	2.09	0.52
1:H:319:GLN:HG3	1:H:586:ILE:HB	1.90	0.52
1:H:333:ASP:OD2	1:J:618:MET:CE	2.57	0.52
1:H:355:THR:O	1:H:356:GLY:C	2.45	0.52
1:I:217:ASP:O	1:I:221:ARG:HG3	2.08	0.52
1:I:323:GLU:HG2	1:I:439:SER:CB	2.40	0.52
1:L:111:VAL:HG21	1:L:139:ILE:HD11	1.91	0.52
1:M:219:LYS:HZ2	1:N:105:ALA:HB2	1.71	0.52
1:N:206:ASP:O	1:N:210:ASN:CA	2.57	0.52
1:O:614:GLY:O	1:O:615:LEU:C	2.46	0.52
1:A:138:ILE:CG2	1:A:139:ILE:N	2.71	0.52
1:A:245:TYR:CD1	1:A:293:SER:CB	2.92	0.52
1:A:333:ASP:HB3	1:C:618:MET:HE1	1.92	0.52
1:A:415:VAL:HG13	1:A:415:VAL:O	2.09	0.52
1:B:323:GLU:HG2	1:B:439:SER:CB	2.40	0.52
1:C:602:TYR:CD1	1:D:635:HIS:CD2	2.97	0.52
1:D:183:VAL:O	1:D:186:LEU:HB2	2.09	0.52
1:D:333:ASP:OD2	1:F:618:MET:CE	2.57	0.52
1:E:258:LEU:CB	1:E:285:ILE:HD13	2.37	0.52
1:E:497:GLN:HG3	1:F:443:MET:HE2	1.90	0.52
1:G:102:ARG:HD2	1:G:148:VAL:HG12	1.92	0.52
1:G:141:ILE:HG22	1:G:148:VAL:HG22	1.91	0.52
1:H:204:VAL:CG1	1:H:205:ALA:H	2.20	0.52
1:J:204:VAL:CG1	1:J:205:ALA:H	2.20	0.52
1:J:206:ASP:O	1:J:210:ASN:CA	2.57	0.52
1:K:204:VAL:CG1	1:K:205:ALA:H	2.20	0.52
1:K:238:LYS:HG3	1:K:240:ASN:N	2.25	0.52
1:K:521:ARG:HD2	1:K:577:LEU:CD1	2.38	0.52
1:L:602:TYR:CD1	1:M:635:HIS:CD2	2.97	0.52
1:N:102:ARG:HD2	1:N:148:VAL:HG12	1.92	0.52
1:N:111:VAL:HG21	1:N:139:ILE:HD11	1.91	0.52
1:N:212:ILE:HG21	1:N:228:ILE:CG1	2.38	0.52
1:A:206:ASP:O	1:A:210:ASN:CA	2.57	0.52
1:A:602:TYR:CD1	1:B:635:HIS:CD2	2.98	0.52
1:B:549:GLU:HA	1:B:567:SER:O	2.10	0.52
1:C:333:ASP:OD2	1:E:618:MET:CE	2.57	0.52
1:C:505:SER:HA	1:C:519:ALA:O	2.09	0.52
1:D:138:ILE:CG2	1:D:139:ILE:N	2.71	0.52
1:E:206:ASP:O	1:E:210:ASN:CA	2.57	0.52
1:E:323:GLU:HG2	1:E:439:SER:CB	2.39	0.52
1:E:354:ASN:OD1	1:E:355:THR:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:602:TYR:CD1	1:F:635:HIS:CD2	2.97	0.52
1:E:608:LEU:HD21	1:E:625:VAL:HG11	1.91	0.52
1:F:219:LYS:HZ1	1:G:105:ALA:HB2	1.73	0.52
1:F:323:GLU:HG2	1:F:439:SER:CB	2.40	0.52
1:F:498:LEU:HD13	1:F:581:ILE:HD11	1.91	0.52
1:F:523:LEU:HD11	1:G:440:ILE:HD12	1.74	0.52
1:G:103:VAL:HA	1:G:139:ILE:O	2.08	0.52
1:I:330:ALA:O	1:I:432:SER:N	2.41	0.52
1:I:608:LEU:HD21	1:I:625:VAL:HG11	1.91	0.52
1:J:183:VAL:O	1:J:186:LEU:HB2	2.10	0.52
1:K:102:ARG:HD2	1:K:148:VAL:HG12	1.92	0.52
1:L:206:ASP:O	1:L:210:ASN:CA	2.57	0.52
1:L:238:LYS:HG3	1:L:240:ASN:N	2.25	0.52
1:L:330:ALA:O	1:L:432:SER:N	2.41	0.52
1:L:497:GLN:O	1:L:497:GLN:HG2	2.08	0.52
1:M:206:ASP:O	1:M:210:ASN:CA	2.57	0.52
1:M:233:VAL:O	1:M:235:MET:CE	2.54	0.52
1:O:102:ARG:HD2	1:O:148:VAL:HG12	1.92	0.52
1:O:498:LEU:HD13	1:O:581:ILE:HD11	1.91	0.52
1:O:505:SER:HA	1:O:519:ALA:O	2.08	0.52
1:B:102:ARG:HD2	1:B:148:VAL:HG12	1.92	0.52
1:B:111:VAL:HG21	1:B:139:ILE:HD11	1.91	0.52
1:C:183:VAL:O	1:C:186:LEU:HB2	2.09	0.52
1:C:549:GLU:HA	1:C:567:SER:O	2.10	0.52
1:E:141:ILE:HG22	1:E:148:VAL:HG22	1.91	0.52
1:F:141:ILE:HG22	1:F:148:VAL:HG22	1.91	0.52
1:F:183:VAL:O	1:F:186:LEU:HB2	2.09	0.52
1:F:245:TYR:CD1	1:F:293:SER:CB	2.92	0.52
1:G:505:SER:HA	1:G:519:ALA:O	2.09	0.52
1:H:212:ILE:HG21	1:H:228:ILE:CG1	2.39	0.52
1:I:183:VAL:O	1:I:186:LEU:HB2	2.09	0.52
1:I:433:ASN:OD1	1:J:607:GLN:NE2	2.43	0.52
1:J:549:GLU:HA	1:J:567:SER:O	2.10	0.52
1:J:572:VAL:HG11	1:L:622:HIS:HB3	1.92	0.52
1:K:214:ILE:HD13	1:K:220:VAL:HG12	1.84	0.52
1:K:323:GLU:HG2	1:K:439:SER:CB	2.40	0.52
1:L:417:GLY:O	1:L:418:ASP:CB	2.58	0.52
1:M:354:ASN:OD1	1:M:355:THR:N	2.42	0.52
1:O:212:ILE:HG21	1:O:228:ILE:CG1	2.39	0.52
1:O:415:VAL:HG13	1:O:415:VAL:O	2.09	0.52
1:A:140:LEU:HD11	1:O:157:ARG:CB	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:102:ARG:HD2	1:C:148:VAL:HG12	1.92	0.52
1:E:606:GLU:OE2	1:F:635:HIS:HD2	1.92	0.52
1:G:602:TYR:CD1	1:H:635:HIS:CD2	2.98	0.52
1:G:608:LEU:HD21	1:G:625:VAL:HG11	1.91	0.52
1:I:549:GLU:HA	1:I:567:SER:O	2.10	0.52
1:I:572:VAL:HG11	1:K:622:HIS:HB3	1.92	0.52
1:J:238:LYS:HG3	1:J:240:ASN:N	2.25	0.52
1:K:354:ASN:OD1	1:K:355:THR:N	2.42	0.52
1:K:523:LEU:HD11	1:L:440:ILE:HD12	1.74	0.52
1:L:323:GLU:HG2	1:L:439:SER:CB	2.40	0.52
1:M:223:ARG:NE	1:M:226:ARG:HH22	2.07	0.52
1:M:238:LYS:HG3	1:M:240:ASN:N	2.25	0.52
1:M:602:TYR:CD1	1:N:635:HIS:CD2	2.97	0.52
1:N:444:ASP:OD2	1:N:490:ILE:CG1	2.58	0.52
1:O:319:GLN:HG3	1:O:586:ILE:HB	1.90	0.52
1:A:319:GLN:HG3	1:A:586:ILE:HB	1.90	0.52
1:A:323:GLU:HG2	1:A:439:SER:CB	2.40	0.52
1:A:553:PRO:CG	1:B:425:ALA:HB1	2.36	0.52
1:B:204:VAL:CG1	1:B:205:ALA:H	2.20	0.52
1:C:233:VAL:O	1:C:235:MET:CE	2.54	0.52
1:D:233:VAL:O	1:D:235:MET:CE	2.54	0.52
1:D:323:GLU:HG2	1:D:439:SER:CB	2.40	0.52
1:D:354:ASN:OD1	1:D:355:THR:N	2.42	0.52
1:F:102:ARG:HD2	1:F:148:VAL:HG12	1.92	0.52
1:F:321:LEU:CD2	1:F:595:ILE:HG23	2.38	0.52
1:H:602:TYR:CD1	1:I:635:HIS:CD2	2.97	0.52
1:J:111:VAL:HG21	1:J:139:ILE:HD11	1.91	0.52
1:J:505:SER:HA	1:J:519:ALA:O	2.09	0.52
1:J:523:LEU:HD11	1:K:440:ILE:HD12	1.75	0.52
1:K:206:ASP:O	1:K:210:ASN:CA	2.57	0.52
1:M:173:ASN:ND2	1:M:235:MET:HE1	2.24	0.52
1:M:549:GLU:HA	1:M:567:SER:O	2.10	0.52
1:N:119:ARG:HG2	1:N:122:ILE:HD12	1.92	0.52
1:N:173:ASN:ND2	1:N:235:MET:HE1	2.25	0.52
1:N:238:LYS:HG3	1:N:240:ASN:N	2.25	0.52
1:N:323:GLU:HG2	1:N:439:SER:CB	2.40	0.52
1:N:498:LEU:HD13	1:N:581:ILE:HD11	1.91	0.52
1:N:549:GLU:HA	1:N:567:SER:O	2.10	0.52
1:A:102:ARG:HD2	1:A:148:VAL:HG12	1.92	0.52
1:A:238:LYS:HG3	1:A:240:ASN:N	2.25	0.52
1:A:354:ASN:OD1	1:A:355:THR:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:141:ILE:HG22	1:D:148:VAL:HG22	1.91	0.52
1:F:608:LEU:HD21	1:F:625:VAL:HG11	1.90	0.52
1:G:223:ARG:NE	1:G:226:ARG:HH22	2.08	0.52
1:H:111:VAL:HG21	1:H:139:ILE:HD11	1.91	0.52
1:H:238:LYS:HG3	1:H:240:ASN:N	2.25	0.52
1:I:223:ARG:NE	1:I:226:ARG:HH22	2.07	0.52
1:J:337:LEU:HD23	1:J:337:LEU:C	2.31	0.52
1:M:102:ARG:HD2	1:M:148:VAL:HG12	1.92	0.52
1:N:602:TYR:CD1	1:O:635:HIS:CD2	2.98	0.52
1:O:337:LEU:HD23	1:O:337:LEU:C	2.31	0.52
1:B:354:ASN:OD1	1:B:355:THR:N	2.42	0.52
1:D:157:ARG:O	1:E:140:LEU:HD11	1.98	0.52
1:D:328:GLU:CG	1:D:521:ARG:NH1	2.67	0.52
1:G:212:ILE:HG21	1:G:228:ILE:CG1	2.39	0.52
1:G:238:LYS:HG3	1:G:240:ASN:N	2.25	0.52
1:I:212:ILE:HG21	1:I:228:ILE:CG1	2.39	0.52
1:I:238:LYS:HG3	1:I:240:ASN:N	2.25	0.52
1:I:602:TYR:CD1	1:J:635:HIS:CD2	2.97	0.52
1:L:337:LEU:HB3	1:N:617:LEU:HD11	1.92	0.52
1:O:119:ARG:HG2	1:O:122:ILE:HD12	1.92	0.52
1:O:238:LYS:HG3	1:O:240:ASN:N	2.25	0.52
1:A:498:LEU:HD13	1:A:581:ILE:HD11	1.91	0.51
1:B:98:ASN:O	1:B:144:ARG:HA	2.11	0.51
1:C:206:ASP:O	1:C:210:ASN:CA	2.57	0.51
1:D:417:GLY:O	1:D:418:ASP:CB	2.58	0.51
1:H:102:ARG:HD2	1:H:148:VAL:HG12	1.92	0.51
1:H:323:GLU:HG2	1:H:439:SER:CB	2.40	0.51
1:H:352:TYR:CD2	1:H:567:SER:CB	2.92	0.51
1:H:549:GLU:HA	1:H:567:SER:O	2.10	0.51
1:I:111:VAL:HG21	1:I:139:ILE:HD11	1.91	0.51
1:I:337:LEU:HD23	1:I:337:LEU:C	2.31	0.51
1:J:212:ILE:HG21	1:J:228:ILE:CG1	2.38	0.51
1:K:223:ARG:NE	1:K:226:ARG:HH22	2.08	0.51
1:M:138:ILE:CG2	1:M:139:ILE:N	2.71	0.51
1:M:444:ASP:OD2	1:M:490:ILE:CG1	2.58	0.51
1:N:497:GLN:O	1:N:497:GLN:HG2	2.08	0.51
1:O:323:GLU:HG2	1:O:439:SER:CB	2.40	0.51
1:A:98:ASN:O	1:A:144:ARG:HA	2.11	0.51
1:B:238:LYS:HG3	1:B:240:ASN:N	2.25	0.51
1:B:337:LEU:HD23	1:B:337:LEU:C	2.31	0.51
1:C:238:LYS:HG3	1:C:240:ASN:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:498:LEU:HD13	1:C:581:ILE:HD11	1.91	0.51
1:D:238:LYS:HG3	1:D:240:ASN:N	2.25	0.51
1:E:233:VAL:O	1:E:235:MET:CE	2.54	0.51
1:G:323:GLU:HG2	1:G:439:SER:CB	2.40	0.51
1:G:549:GLU:HA	1:G:567:SER:O	2.10	0.51
1:H:337:LEU:HD23	1:H:337:LEU:C	2.30	0.51
1:H:498:LEU:HD13	1:H:581:ILE:HD11	1.90	0.51
1:K:333:ASP:OD2	1:M:618:MET:CE	2.57	0.51
1:K:549:GLU:HA	1:K:567:SER:O	2.10	0.51
1:L:183:VAL:O	1:L:186:LEU:HB2	2.09	0.51
1:M:119:ARG:HG2	1:M:122:ILE:HD12	1.92	0.51
1:M:323:GLU:HG2	1:M:439:SER:CB	2.39	0.51
1:M:608:LEU:HD21	1:M:625:VAL:HG11	1.91	0.51
1:N:183:VAL:O	1:N:186:LEU:HB2	2.09	0.51
1:O:111:VAL:HG21	1:O:139:ILE:HD11	1.91	0.51
1:O:417:GLY:O	1:O:418:ASP:CB	2.58	0.51
1:A:173:ASN:ND2	1:A:235:MET:HE1	2.24	0.51
1:C:337:LEU:C	1:C:337:LEU:HD23	2.31	0.51
1:C:354:ASN:OD1	1:C:355:THR:N	2.42	0.51
1:E:330:ALA:O	1:E:432:SER:N	2.41	0.51
1:E:553:PRO:CG	1:F:425:ALA:HB1	2.36	0.51
1:E:614:GLY:O	1:E:615:LEU:C	2.46	0.51
1:F:238:LYS:HG3	1:F:240:ASN:N	2.25	0.51
1:H:204:VAL:HG12	1:H:205:ALA:H	1.71	0.51
1:L:119:ARG:HG2	1:L:122:ILE:HD12	1.92	0.51
1:L:608:LEU:HD21	1:L:625:VAL:HG11	1.91	0.51
1:N:337:LEU:C	1:N:337:LEU:HD23	2.30	0.51
1:A:233:VAL:O	1:A:235:MET:CE	2.54	0.51
1:A:497:GLN:HG3	1:B:443:MET:HE2	1.92	0.51
1:A:549:GLU:HA	1:A:567:SER:O	2.10	0.51
1:C:98:ASN:O	1:C:144:ARG:HA	2.11	0.51
1:D:602:TYR:CD1	1:E:635:HIS:CD2	2.98	0.51
1:E:238:LYS:HG3	1:E:240:ASN:N	2.25	0.51
1:F:223:ARG:NE	1:F:226:ARG:HH22	2.08	0.51
1:I:498:LEU:HD13	1:I:581:ILE:HD11	1.91	0.51
1:K:572:VAL:HG11	1:M:622:HIS:HB3	1.93	0.51
1:N:313:LEU:HD11	1:O:295:VAL:CG2	2.41	0.51
1:O:233:VAL:O	1:O:235:MET:CE	2.54	0.51
1:O:266:GLN:HA	1:O:302:ILE:HD11	1.93	0.51
1:A:111:VAL:HG21	1:A:139:ILE:HD11	1.91	0.51
1:D:330:ALA:O	1:D:432:SER:N	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:549:GLU:HA	1:D:567:SER:O	2.10	0.51
1:G:333:ASP:OD2	1:I:618:MET:CE	2.57	0.51
1:H:330:ALA:O	1:H:432:SER:N	2.41	0.51
1:H:417:GLY:O	1:H:418:ASP:CB	2.58	0.51
1:I:442:VAL:HG11	1:I:488:PRO:CG	2.21	0.51
1:L:266:GLN:HA	1:L:302:ILE:HD11	1.93	0.51
1:L:572:VAL:HG11	1:N:622:HIS:HB3	1.92	0.51
1:M:98:ASN:O	1:M:144:ARG:HA	2.11	0.51
1:M:497:GLN:HG2	1:M:497:GLN:O	2.08	0.51
1:A:183:VAL:O	1:A:186:LEU:HB2	2.09	0.51
1:A:327:VAL:HG12	1:A:578:MET:O	2.11	0.51
1:A:337:LEU:HB3	1:C:617:LEU:HD11	1.93	0.51
1:A:425:ALA:HB1	1:O:553:PRO:CG	2.36	0.51
1:C:337:LEU:HB3	1:E:617:LEU:HD11	1.93	0.51
1:C:609:TYR:O	1:C:612:GLU:N	2.37	0.51
1:D:102:ARG:HD2	1:D:148:VAL:HG12	1.92	0.51
1:E:337:LEU:HD23	1:E:337:LEU:C	2.31	0.51
1:G:572:VAL:HG11	1:I:622:HIS:HB3	1.92	0.51
1:J:120:GLN:O	1:J:124:ASN:N	2.34	0.51
1:K:337:LEU:C	1:K:337:LEU:HD23	2.31	0.51
1:K:602:TYR:CD1	1:L:635:HIS:CD2	2.98	0.51
1:M:327:VAL:HG12	1:M:578:MET:O	2.11	0.51
1:O:98:ASN:O	1:O:144:ARG:HA	2.11	0.51
1:A:161:ALA:CB	1:B:134:ASP:OD2	2.58	0.51
1:A:337:LEU:HD23	1:A:337:LEU:C	2.30	0.51
1:B:233:VAL:O	1:B:235:MET:CE	2.54	0.51
1:B:328:GLU:CG	1:B:521:ARG:NH1	2.67	0.51
1:B:606:GLU:OE2	1:C:635:HIS:HD2	1.94	0.51
1:E:549:GLU:HA	1:E:567:SER:O	2.10	0.51
1:F:214:ILE:CD1	1:F:220:VAL:CG1	2.48	0.51
1:F:549:GLU:HA	1:F:567:SER:O	2.10	0.51
1:G:327:VAL:HG12	1:G:578:MET:O	2.11	0.51
1:H:572:VAL:HG11	1:J:622:HIS:HB3	1.93	0.51
1:I:102:ARG:HD2	1:I:148:VAL:HG12	1.93	0.51
1:J:323:GLU:HG2	1:J:439:SER:CB	2.40	0.51
1:L:102:ARG:HD2	1:L:148:VAL:HG12	1.93	0.51
1:L:337:LEU:HD23	1:L:337:LEU:C	2.31	0.51
1:L:549:GLU:HA	1:L:567:SER:O	2.10	0.51
1:A:119:ARG:HG2	1:A:122:ILE:HD12	1.93	0.51
1:C:330:ALA:O	1:C:432:SER:N	2.41	0.51
1:C:431:ASN:OD1	1:C:432:SER:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:98:ASN:O	1:D:144:ARG:HA	2.11	0.51
1:D:327:VAL:HG12	1:D:578:MET:O	2.11	0.51
1:D:522:GLN:HG2	1:E:451:ILE:HG22	1.92	0.51
1:E:102:ARG:HD2	1:E:148:VAL:HG12	1.93	0.51
1:E:298:ALA:HB3	1:E:303:MET:HB2	1.93	0.51
1:E:337:LEU:HB3	1:G:617:LEU:HD11	1.93	0.51
1:G:106:VAL:HG11	1:G:158:VAL:HG22	1.93	0.51
1:G:233:VAL:O	1:G:235:MET:CE	2.54	0.51
1:J:602:TYR:CD1	1:K:635:HIS:CD2	2.98	0.51
1:K:173:ASN:ND2	1:K:235:MET:HE1	2.26	0.51
1:K:212:ILE:HG21	1:K:228:ILE:CG1	2.39	0.51
1:K:330:ALA:O	1:K:432:SER:N	2.41	0.51
1:L:245:TYR:CD1	1:L:293:SER:CB	2.91	0.51
1:L:354:ASN:OD1	1:L:355:THR:N	2.42	0.51
1:M:214:ILE:HD13	1:M:220:VAL:HG12	1.84	0.51
1:M:245:TYR:CD1	1:M:293:SER:CB	2.92	0.51
1:M:337:LEU:HD23	1:M:337:LEU:C	2.31	0.51
1:M:606:GLU:OE2	1:N:635:HIS:HD2	1.94	0.51
1:N:223:ARG:NE	1:N:226:ARG:HH22	2.08	0.51
1:N:354:ASN:OD1	1:N:355:THR:N	2.42	0.51
1:A:224:LEU:O	1:A:224:LEU:CG	2.59	0.51
1:C:328:GLU:CG	1:C:521:ARG:NH1	2.67	0.51
1:E:223:ARG:NE	1:E:226:ARG:HH22	2.08	0.51
1:E:522:GLN:HG2	1:F:451:ILE:HG22	1.93	0.51
1:F:98:ASN:O	1:F:144:ARG:HA	2.11	0.51
1:F:106:VAL:HG11	1:F:158:VAL:HG22	1.93	0.51
1:F:108:ASN:OD1	1:F:109:VAL:N	2.44	0.51
1:F:313:LEU:HD11	1:G:295:VAL:CG2	2.41	0.51
1:F:327:VAL:HG12	1:F:578:MET:O	2.11	0.51
1:F:330:ALA:O	1:F:432:SER:N	2.41	0.51
1:F:337:LEU:C	1:F:337:LEU:HD23	2.31	0.51
1:G:298:ALA:HB3	1:G:303:MET:HB2	1.93	0.51
1:G:330:ALA:O	1:G:432:SER:N	2.41	0.51
1:H:298:ALA:HB3	1:H:303:MET:HB2	1.93	0.51
1:J:327:VAL:HG12	1:J:578:MET:O	2.11	0.51
1:J:498:LEU:HD13	1:J:581:ILE:HD11	1.91	0.51
1:K:266:GLN:HA	1:K:302:ILE:HD11	1.93	0.51
1:K:417:GLY:O	1:K:418:ASP:CB	2.58	0.51
1:L:498:LEU:HD13	1:L:581:ILE:HD11	1.92	0.51
1:N:233:VAL:O	1:N:235:MET:CE	2.54	0.51
1:O:549:GLU:HA	1:O:567:SER:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:442:VAL:HG11	1:A:488:PRO:CG	2.21	0.51
1:C:173:ASN:ND2	1:C:235:MET:HE1	2.26	0.51
1:C:327:VAL:HG12	1:C:578:MET:O	2.11	0.51
1:E:246:LEU:HD22	1:E:251:ALA:CB	2.40	0.51
1:E:313:LEU:HD11	1:F:295:VAL:CG2	2.41	0.51
1:G:224:LEU:O	1:G:224:LEU:CG	2.59	0.51
1:G:498:LEU:HD13	1:G:581:ILE:HD11	1.92	0.51
1:H:522:GLN:HG2	1:I:451:ILE:HG22	1.93	0.51
1:I:104:VAL:HG21	1:I:156:LYS:CE	2.41	0.51
1:I:327:VAL:HG12	1:I:578:MET:O	2.11	0.51
1:J:337:LEU:HB3	1:L:617:LEU:HD11	1.93	0.51
1:K:119:ARG:HG2	1:K:122:ILE:HD12	1.92	0.51
1:L:106:VAL:HG11	1:L:158:VAL:HG22	1.93	0.51
1:L:298:ALA:HB3	1:L:303:MET:HB2	1.93	0.51
1:L:444:ASP:OD2	1:L:490:ILE:CG1	2.58	0.51
1:M:337:LEU:HB3	1:O:617:LEU:HD11	1.93	0.51
1:N:98:ASN:O	1:N:144:ARG:HA	2.11	0.51
1:N:262:SER:CA	1:N:283:VAL:HG11	2.41	0.51
1:N:298:ALA:HB3	1:N:303:MET:HB2	1.93	0.51
1:O:298:ALA:HB3	1:O:303:MET:HB2	1.93	0.51
1:B:121:LEU:HD21	1:B:147:VAL:HB	1.94	0.50
1:B:224:LEU:O	1:B:224:LEU:CG	2.59	0.50
1:B:330:ALA:O	1:B:432:SER:N	2.41	0.50
1:C:121:LEU:HD21	1:C:147:VAL:HB	1.94	0.50
1:D:337:LEU:HD23	1:D:337:LEU:C	2.31	0.50
1:E:98:ASN:O	1:E:144:ARG:HA	2.11	0.50
1:G:522:GLN:HG2	1:H:451:ILE:HG22	1.93	0.50
1:H:106:VAL:HG11	1:H:158:VAL:HG22	1.93	0.50
1:I:298:ALA:HB3	1:I:303:MET:HB2	1.93	0.50
1:J:98:ASN:O	1:J:144:ARG:HA	2.11	0.50
1:K:104:VAL:HG21	1:K:156:LYS:CE	2.41	0.50
1:K:206:ASP:OD2	1:K:208:ARG:CB	2.59	0.50
1:M:298:ALA:HB3	1:M:303:MET:HB2	1.93	0.50
1:N:104:VAL:HG21	1:N:156:LYS:CE	2.41	0.50
1:N:121:LEU:HD21	1:N:147:VAL:HB	1.94	0.50
1:N:214:ILE:CD1	1:N:220:VAL:CG1	2.49	0.50
1:N:266:GLN:HA	1:N:302:ILE:HD11	1.94	0.50
1:N:553:PRO:CG	1:O:425:ALA:HB1	2.36	0.50
1:A:205:ALA:HA	1:A:211:SER:O	2.11	0.50
1:A:326:ILE:CD1	1:A:502:GLN:NE2	2.67	0.50
1:B:298:ALA:HB3	1:B:303:MET:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:431:ASN:OD1	1:B:432:SER:N	2.45	0.50
1:B:617:LEU:HD11	1:O:337:LEU:HB3	1.93	0.50
1:B:622:HIS:HB3	1:O:572:VAL:HG11	1.92	0.50
1:D:206:ASP:OD2	1:D:208:ARG:CB	2.59	0.50
1:D:214:ILE:CD1	1:D:220:VAL:CG1	2.48	0.50
1:D:298:ALA:HB3	1:D:303:MET:HB2	1.93	0.50
1:D:337:LEU:HB3	1:F:617:LEU:HD11	1.92	0.50
1:D:352:TYR:CD2	1:D:567:SER:CB	2.92	0.50
1:D:444:ASP:OD2	1:D:490:ILE:CG1	2.58	0.50
1:F:337:LEU:HB3	1:H:617:LEU:HD11	1.93	0.50
1:G:262:SER:CA	1:G:283:VAL:HG11	2.41	0.50
1:H:224:LEU:O	1:H:224:LEU:CG	2.60	0.50
1:I:98:ASN:O	1:I:144:ARG:HA	2.11	0.50
1:I:352:TYR:CD2	1:I:567:SER:CB	2.92	0.50
1:J:223:ARG:NE	1:J:226:ARG:HH22	2.08	0.50
1:K:157:ARG:O	1:L:140:LEU:HD13	2.01	0.50
1:M:106:VAL:HG11	1:M:158:VAL:HG22	1.93	0.50
1:N:214:ILE:HD13	1:N:220:VAL:HG12	1.84	0.50
1:O:327:VAL:HG12	1:O:578:MET:O	2.11	0.50
1:A:104:VAL:HG21	1:A:156:LYS:CE	2.42	0.50
1:A:266:GLN:HA	1:A:302:ILE:HD11	1.93	0.50
1:A:431:ASN:OD1	1:A:432:SER:N	2.45	0.50
1:B:327:VAL:HG12	1:B:578:MET:O	2.12	0.50
1:C:298:ALA:HB3	1:C:303:MET:HB2	1.93	0.50
1:C:444:ASP:OD2	1:C:490:ILE:CG1	2.58	0.50
1:E:106:VAL:HG11	1:E:158:VAL:HG22	1.93	0.50
1:E:442:VAL:HG11	1:E:488:PRO:CG	2.21	0.50
1:F:224:LEU:O	1:F:224:LEU:CG	2.60	0.50
1:F:262:SER:CA	1:F:283:VAL:HG11	2.41	0.50
1:G:173:ASN:ND2	1:G:235:MET:HE1	2.26	0.50
1:G:313:LEU:HD11	1:H:295:VAL:CG2	2.41	0.50
1:G:337:LEU:HB3	1:I:617:LEU:HD11	1.93	0.50
1:H:337:LEU:HB3	1:J:617:LEU:HD11	1.93	0.50
1:K:121:LEU:HD22	1:K:151:LEU:CD1	2.42	0.50
1:K:205:ALA:HA	1:K:211:SER:O	2.12	0.50
1:K:431:ASN:OD1	1:K:432:SER:N	2.44	0.50
1:K:498:LEU:HD13	1:K:581:ILE:HD11	1.91	0.50
1:L:205:ALA:HA	1:L:211:SER:O	2.12	0.50
1:L:262:SER:CA	1:L:283:VAL:HG11	2.42	0.50
1:M:104:VAL:HG21	1:M:156:LYS:CE	2.41	0.50
1:M:121:LEU:HD21	1:M:147:VAL:HB	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:205:ALA:HA	1:M:211:SER:O	2.11	0.50
1:M:266:GLN:HA	1:M:302:ILE:HD11	1.94	0.50
1:N:106:VAL:HG11	1:N:158:VAL:HG22	1.93	0.50
1:O:121:LEU:HD21	1:O:147:VAL:HB	1.94	0.50
1:O:431:ASN:OD1	1:O:432:SER:N	2.44	0.50
1:A:635:HIS:CD2	1:O:602:TYR:CD1	2.99	0.50
1:B:205:ALA:HA	1:B:211:SER:O	2.12	0.50
1:B:337:LEU:HB3	1:D:617:LEU:HD11	1.93	0.50
1:E:327:VAL:HG12	1:E:578:MET:O	2.11	0.50
1:E:498:LEU:HD13	1:E:581:ILE:HD11	1.92	0.50
1:F:298:ALA:HB3	1:F:303:MET:HB2	1.93	0.50
1:G:98:ASN:O	1:G:144:ARG:HA	2.11	0.50
1:G:108:ASN:OD1	1:G:109:VAL:N	2.44	0.50
1:G:206:ASP:OD2	1:G:208:ARG:CB	2.59	0.50
1:G:337:LEU:HD23	1:G:337:LEU:C	2.31	0.50
1:G:417:GLY:O	1:G:418:ASP:CB	2.58	0.50
1:H:119:ARG:HG2	1:H:122:ILE:HD12	1.92	0.50
1:H:121:LEU:HD22	1:H:151:LEU:CD1	2.42	0.50
1:I:217:ASP:N	1:I:220:VAL:HB	2.27	0.50
1:I:442:VAL:HG13	1:I:488:PRO:HG3	1.89	0.50
1:J:245:TYR:CD1	1:J:293:SER:CB	2.92	0.50
1:K:612:GLU:CG	1:L:642:PHE:HE2	2.24	0.50
1:L:104:VAL:HG21	1:L:156:LYS:CE	2.42	0.50
1:L:206:ASP:OD2	1:L:208:ARG:CB	2.59	0.50
1:L:224:LEU:O	1:L:224:LEU:CG	2.59	0.50
1:L:326:ILE:CD1	1:L:502:GLN:NE2	2.67	0.50
1:L:327:VAL:HG12	1:L:578:MET:O	2.11	0.50
1:M:313:LEU:HD11	1:N:295:VAL:CG2	2.41	0.50
1:M:578:MET:CG	1:N:603:ILE:HD11	2.41	0.50
1:N:327:VAL:HG12	1:N:578:MET:O	2.11	0.50
1:N:497:GLN:HG3	1:O:443:MET:HE2	1.93	0.50
1:O:262:SER:CA	1:O:283:VAL:HG11	2.41	0.50
1:A:298:ALA:HB3	1:A:303:MET:HB2	1.94	0.50
1:A:330:ALA:O	1:A:432:SER:N	2.41	0.50
1:A:572:VAL:HG11	1:C:622:HIS:HB3	1.92	0.50
1:B:262:SER:CA	1:B:283:VAL:HG11	2.42	0.50
1:B:313:LEU:HD11	1:C:295:VAL:CG2	2.41	0.50
1:E:119:ARG:HG2	1:E:122:ILE:HD12	1.92	0.50
1:E:444:ASP:OD2	1:E:490:ILE:CG1	2.58	0.50
1:F:522:GLN:HG2	1:G:451:ILE:HG22	1.94	0.50
1:F:597:GLN:O	1:F:598:ARG:C	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:606:GLU:OE2	1:G:635:HIS:HD2	1.95	0.50
1:G:119:ARG:HG2	1:G:122:ILE:HD12	1.92	0.50
1:G:217:ASP:N	1:G:220:VAL:HB	2.27	0.50
1:H:205:ALA:HA	1:H:211:SER:O	2.12	0.50
1:I:245:TYR:CD1	1:I:293:SER:CB	2.91	0.50
1:J:121:LEU:HD21	1:J:147:VAL:HB	1.93	0.50
1:J:431:ASN:OD1	1:J:432:SER:N	2.44	0.50
1:K:98:ASN:O	1:K:144:ARG:HA	2.11	0.50
1:K:106:VAL:HG11	1:K:158:VAL:HG22	1.93	0.50
1:K:121:LEU:HD21	1:K:147:VAL:HB	1.94	0.50
1:K:224:LEU:O	1:K:224:LEU:CG	2.60	0.50
1:K:298:ALA:HB3	1:K:303:MET:HB2	1.94	0.50
1:K:333:ASP:HB3	1:M:618:MET:HE1	1.94	0.50
1:M:498:LEU:HD13	1:M:581:ILE:HD11	1.92	0.50
1:M:572:VAL:HG11	1:O:622:HIS:HB3	1.92	0.50
1:N:245:TYR:CD1	1:N:293:SER:CB	2.92	0.50
1:O:205:ALA:HA	1:O:211:SER:O	2.12	0.50
1:O:223:ARG:NE	1:O:226:ARG:HH22	2.08	0.50
1:C:120:GLN:O	1:C:124:ASN:N	2.34	0.50
1:C:224:LEU:O	1:C:224:LEU:CG	2.60	0.50
1:C:522:GLN:HG2	1:D:451:ILE:HG22	1.93	0.50
1:D:223:ARG:NE	1:D:226:ARG:HH22	2.08	0.50
1:E:324:ALA:HB3	1:E:438:PRO:HD2	1.94	0.50
1:F:119:ARG:HG2	1:F:122:ILE:HD12	1.92	0.50
1:F:431:ASN:OD1	1:F:432:SER:N	2.44	0.50
1:F:553:PRO:CG	1:G:425:ALA:HB1	2.35	0.50
1:H:98:ASN:O	1:H:144:ARG:HA	2.11	0.50
1:H:313:LEU:HD11	1:I:295:VAL:CG2	2.41	0.50
1:L:98:ASN:O	1:L:144:ARG:HA	2.11	0.50
1:L:522:GLN:HG2	1:M:451:ILE:HG22	1.92	0.50
1:N:205:ALA:HA	1:N:211:SER:O	2.12	0.50
1:A:121:LEU:HD21	1:A:147:VAL:HB	1.94	0.50
1:A:364:VAL:HG21	1:B:401:ALA:HB2	1.94	0.50
1:B:119:ARG:HG2	1:B:122:ILE:HD12	1.92	0.50
1:C:157:ARG:O	1:D:140:LEU:HD11	1.99	0.50
1:C:523:LEU:HD11	1:D:440:ILE:HD12	1.74	0.50
1:D:121:LEU:HD21	1:D:147:VAL:HB	1.94	0.50
1:D:246:LEU:HD22	1:D:251:ALA:CB	2.40	0.50
1:E:121:LEU:HD21	1:E:147:VAL:HB	1.94	0.50
1:E:343:ASN:HB2	1:E:419:TRP:CE2	2.47	0.50
1:E:597:GLN:O	1:E:598:ARG:C	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:266:GLN:HA	1:H:302:ILE:HD11	1.93	0.50
1:H:431:ASN:OD1	1:H:432:SER:N	2.44	0.50
1:H:578:MET:CG	1:I:603:ILE:HD11	2.42	0.50
1:I:106:VAL:HG11	1:I:158:VAL:HG22	1.93	0.50
1:I:119:ARG:HG2	1:I:122:ILE:HD12	1.92	0.50
1:I:266:GLN:HA	1:I:302:ILE:HD11	1.93	0.50
1:I:444:ASP:OD2	1:I:490:ILE:CG1	2.58	0.50
1:I:578:MET:CG	1:J:603:ILE:HD11	2.42	0.50
1:K:217:ASP:N	1:K:220:VAL:HB	2.27	0.50
1:M:224:LEU:O	1:M:224:LEU:CG	2.59	0.50
1:M:553:PRO:CG	1:N:425:ALA:HB1	2.36	0.50
1:N:121:LEU:HD22	1:N:151:LEU:CD1	2.42	0.50
1:N:431:ASN:OD1	1:N:432:SER:N	2.44	0.50
1:A:603:ILE:HD11	1:O:578:MET:CG	2.42	0.50
1:B:266:GLN:HA	1:B:302:ILE:HD11	1.93	0.50
1:B:352:TYR:CD2	1:B:567:SER:CB	2.92	0.50
1:B:444:ASP:OD2	1:B:490:ILE:CG1	2.58	0.50
1:C:217:ASP:N	1:C:220:VAL:HB	2.27	0.50
1:C:246:LEU:HD22	1:C:251:ALA:CB	2.40	0.50
1:C:324:ALA:HB3	1:C:438:PRO:HD2	1.94	0.50
1:D:119:ARG:HG2	1:D:122:ILE:HD12	1.92	0.50
1:D:324:ALA:HB3	1:D:438:PRO:HD2	1.94	0.50
1:D:431:ASN:OD1	1:D:432:SER:N	2.44	0.50
1:E:104:VAL:HG21	1:E:156:LYS:CE	2.42	0.50
1:E:549:GLU:OE2	1:E:551:LYS:HE2	2.12	0.50
1:F:572:VAL:HG11	1:H:622:HIS:HB3	1.93	0.50
1:G:104:VAL:HG21	1:G:156:LYS:CE	2.41	0.50
1:G:597:GLN:O	1:G:598:ARG:C	2.50	0.50
1:H:217:ASP:N	1:H:220:VAL:HB	2.27	0.50
1:H:243:VAL:HG13	1:H:243:VAL:O	2.12	0.50
1:I:205:ALA:HA	1:I:211:SER:O	2.12	0.50
1:J:104:VAL:HG21	1:J:156:LYS:CE	2.41	0.50
1:J:262:SER:CA	1:J:283:VAL:HG11	2.41	0.50
1:J:266:GLN:HA	1:J:302:ILE:HD11	1.94	0.50
1:J:313:LEU:HD11	1:K:295:VAL:CG2	2.41	0.50
1:K:327:VAL:HG12	1:K:578:MET:O	2.11	0.50
1:K:337:LEU:HB3	1:M:617:LEU:HD11	1.93	0.50
1:K:553:PRO:CG	1:L:425:ALA:HB1	2.35	0.50
1:K:578:MET:CG	1:L:603:ILE:HD11	2.42	0.50
1:L:121:LEU:HD21	1:L:147:VAL:HB	1.94	0.50
1:M:121:LEU:HD22	1:M:151:LEU:CD1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:262:SER:CA	1:M:283:VAL:HG11	2.41	0.50
1:N:157:ARG:O	1:O:140:LEU:HD13	2.01	0.50
1:N:167:GLU:HG2	1:N:214:ILE:CB	2.41	0.50
1:N:597:GLN:O	1:N:598:ARG:C	2.50	0.50
1:A:262:SER:CA	1:A:283:VAL:HG11	2.42	0.50
1:B:217:ASP:N	1:B:220:VAL:HB	2.27	0.50
1:B:343:ASN:HB2	1:B:419:TRP:CE2	2.47	0.50
1:C:266:GLN:HA	1:C:302:ILE:HD11	1.93	0.50
1:C:343:ASN:HB2	1:C:419:TRP:CE2	2.47	0.50
1:D:262:SER:CA	1:D:283:VAL:HG11	2.41	0.50
1:D:313:LEU:HD11	1:E:295:VAL:CG2	2.41	0.50
1:D:343:ASN:HB2	1:D:419:TRP:CE2	2.47	0.50
1:D:549:GLU:OE2	1:D:551:LYS:HE2	2.12	0.50
1:E:121:LEU:HD22	1:E:151:LEU:CD1	2.42	0.50
1:E:205:ALA:HA	1:E:211:SER:O	2.12	0.50
1:E:352:TYR:CD2	1:E:567:SER:CB	2.92	0.50
1:E:572:VAL:HG11	1:G:622:HIS:HB3	1.92	0.50
1:F:121:LEU:HD22	1:F:151:LEU:CD1	2.42	0.50
1:F:121:LEU:HD21	1:F:147:VAL:HB	1.94	0.50
1:F:205:ALA:HA	1:F:211:SER:O	2.11	0.50
1:F:343:ASN:HB2	1:F:419:TRP:CE2	2.47	0.50
1:G:350:ILE:O	1:G:350:ILE:HG22	2.12	0.50
1:H:108:ASN:OD1	1:H:109:VAL:N	2.44	0.50
1:I:224:LEU:O	1:I:224:LEU:CG	2.60	0.50
1:I:606:GLU:OE2	1:J:635:HIS:HD2	1.95	0.50
1:J:298:ALA:HB3	1:J:303:MET:HB2	1.94	0.50
1:K:245:TYR:CD1	1:K:293:SER:CB	2.92	0.50
1:L:553:PRO:CG	1:M:425:ALA:HB1	2.36	0.50
1:M:431:ASN:OD1	1:M:432:SER:N	2.45	0.50
1:O:104:VAL:HG21	1:O:156:LYS:CE	2.41	0.50
1:A:217:ASP:N	1:A:220:VAL:HB	2.27	0.49
1:B:246:LEU:HD22	1:B:251:ALA:CB	2.40	0.49
1:C:205:ALA:HA	1:C:211:SER:O	2.12	0.49
1:C:454:GLU:O	1:C:480:VAL:HG22	2.12	0.49
1:C:612:GLU:CG	1:D:642:PHE:HE2	2.25	0.49
1:D:157:ARG:O	1:E:140:LEU:HD13	2.00	0.49
1:D:205:ALA:HA	1:D:211:SER:O	2.12	0.49
1:D:266:GLN:HA	1:D:302:ILE:HD11	1.93	0.49
1:D:572:VAL:HG11	1:F:622:HIS:HB3	1.93	0.49
1:E:431:ASN:OD1	1:E:432:SER:N	2.45	0.49
1:F:324:ALA:HB3	1:F:438:PRO:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:324:ALA:HB3	1:H:438:PRO:HD2	1.94	0.49
1:I:121:LEU:HD22	1:I:151:LEU:CD1	2.42	0.49
1:I:262:SER:CA	1:I:283:VAL:HG11	2.41	0.49
1:I:597:GLN:O	1:I:598:ARG:C	2.50	0.49
1:J:243:VAL:O	1:J:243:VAL:HG13	2.12	0.49
1:J:522:GLN:HG2	1:K:451:ILE:HG22	1.93	0.49
1:M:206:ASP:OD2	1:M:208:ARG:CB	2.59	0.49
1:M:324:ALA:HB3	1:M:438:PRO:HD2	1.93	0.49
1:N:296:LEU:HD22	1:N:306:LEU:HD13	1.95	0.49
1:N:433:ASN:OD1	1:O:607:GLN:NE2	2.45	0.49
1:O:106:VAL:HG11	1:O:158:VAL:HG22	1.93	0.49
1:O:597:GLN:O	1:O:598:ARG:C	2.50	0.49
1:A:352:TYR:CD2	1:A:567:SER:CB	2.92	0.49
1:A:444:ASP:OD2	1:A:490:ILE:CG1	2.57	0.49
1:B:522:GLN:HG2	1:C:451:ILE:HG22	1.93	0.49
1:C:104:VAL:HG21	1:C:156:LYS:CE	2.41	0.49
1:C:262:SER:CA	1:C:283:VAL:HG11	2.41	0.49
1:C:352:TYR:CD2	1:C:567:SER:CB	2.92	0.49
1:C:572:VAL:HG11	1:E:622:HIS:HB3	1.93	0.49
1:D:609:TYR:O	1:D:612:GLU:N	2.37	0.49
1:G:243:VAL:O	1:G:243:VAL:HG13	2.13	0.49
1:G:266:GLN:HA	1:G:302:ILE:HD11	1.93	0.49
1:I:324:ALA:HB3	1:I:438:PRO:HD2	1.94	0.49
1:J:119:ARG:HG2	1:J:122:ILE:HD12	1.92	0.49
1:M:217:ASP:N	1:M:220:VAL:HB	2.27	0.49
1:M:343:ASN:HB2	1:M:419:TRP:CE2	2.47	0.49
1:M:433:ASN:OD1	1:N:607:GLN:NE2	2.45	0.49
1:N:328:GLU:CG	1:N:521:ARG:NH1	2.67	0.49
1:N:522:GLN:HG2	1:O:451:ILE:HG22	1.93	0.49
1:O:214:ILE:HD13	1:O:220:VAL:HG12	1.84	0.49
1:O:217:ASP:N	1:O:220:VAL:HB	2.27	0.49
1:O:326:ILE:CD1	1:O:502:GLN:NE2	2.67	0.49
1:A:106:VAL:HG11	1:A:158:VAL:HG22	1.93	0.49
1:A:343:ASN:HB2	1:A:419:TRP:CE2	2.47	0.49
1:B:104:VAL:HG21	1:B:156:LYS:CE	2.41	0.49
1:B:121:LEU:HD22	1:B:151:LEU:CD1	2.42	0.49
1:D:106:VAL:HG11	1:D:158:VAL:HG22	1.93	0.49
1:D:217:ASP:N	1:D:220:VAL:HB	2.27	0.49
1:D:224:LEU:O	1:D:224:LEU:CG	2.59	0.49
1:F:104:VAL:HG21	1:F:156:LYS:CE	2.41	0.49
1:F:529:VAL:HB	1:F:583:PRO:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:121:LEU:HD22	1:G:151:LEU:CD1	2.42	0.49
1:G:324:ALA:HB3	1:G:438:PRO:HD2	1.94	0.49
1:G:454:GLU:O	1:G:480:VAL:HG22	2.13	0.49
1:H:104:VAL:HG21	1:H:156:LYS:CE	2.42	0.49
1:H:121:LEU:HD21	1:H:147:VAL:HB	1.94	0.49
1:H:206:ASP:OD2	1:H:208:ARG:CB	2.60	0.49
1:H:327:VAL:HG12	1:H:578:MET:O	2.11	0.49
1:H:444:ASP:OD2	1:H:490:ILE:CG1	2.58	0.49
1:H:529:VAL:HB	1:H:583:PRO:HG3	1.94	0.49
1:I:121:LEU:HD21	1:I:147:VAL:HB	1.94	0.49
1:I:243:VAL:O	1:I:243:VAL:HG13	2.13	0.49
1:I:522:GLN:HG2	1:J:451:ILE:HG22	1.94	0.49
1:J:217:ASP:N	1:J:220:VAL:HB	2.27	0.49
1:J:433:ASN:OD1	1:K:607:GLN:NE2	2.45	0.49
1:K:350:ILE:HG22	1:K:350:ILE:O	2.12	0.49
1:L:422:LEU:HD23	1:L:422:LEU:O	2.13	0.49
1:M:350:ILE:HA	1:N:410:ALA:HA	1.94	0.49
1:N:343:ASN:HB2	1:N:419:TRP:CE2	2.47	0.49
1:A:401:ALA:HB2	1:O:364:VAL:HG21	1.94	0.49
1:B:173:ASN:ND2	1:B:235:MET:HE1	2.27	0.49
1:C:119:ARG:HG2	1:C:122:ILE:HD12	1.92	0.49
1:E:217:ASP:N	1:E:220:VAL:HB	2.27	0.49
1:E:219:LYS:HZ1	1:F:105:ALA:HB2	1.76	0.49
1:F:454:GLU:O	1:F:480:VAL:HG22	2.13	0.49
1:F:549:GLU:OE2	1:F:551:LYS:HE2	2.13	0.49
1:G:121:LEU:HD21	1:G:147:VAL:HB	1.94	0.49
1:G:205:ALA:HA	1:G:211:SER:O	2.12	0.49
1:G:431:ASN:OD1	1:G:432:SER:N	2.44	0.49
1:G:578:MET:CG	1:H:603:ILE:HD11	2.42	0.49
1:J:106:VAL:HG11	1:J:158:VAL:HG22	1.93	0.49
1:J:558:ILE:HG23	1:J:559:PRO:HD2	1.95	0.49
1:K:444:ASP:OD2	1:K:490:ILE:CG1	2.58	0.49
1:L:343:ASN:HB2	1:L:419:TRP:CE2	2.47	0.49
1:L:350:ILE:HA	1:M:410:ALA:HA	1.94	0.49
1:L:578:MET:CG	1:M:603:ILE:HD11	2.43	0.49
1:N:217:ASP:N	1:N:220:VAL:HB	2.27	0.49
1:A:296:LEU:HD22	1:A:306:LEU:HD13	1.95	0.49
1:A:597:GLN:O	1:A:598:ARG:C	2.50	0.49
1:B:364:VAL:HG21	1:C:401:ALA:HB2	1.94	0.49
1:B:454:GLU:O	1:B:480:VAL:HG22	2.13	0.49
1:B:572:VAL:HG11	1:D:622:HIS:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:549:GLU:OE2	1:C:551:LYS:HE2	2.13	0.49
1:D:104:VAL:HG21	1:D:156:LYS:CE	2.41	0.49
1:D:422:LEU:HD23	1:D:422:LEU:O	2.13	0.49
1:E:266:GLN:HA	1:E:302:ILE:HD11	1.93	0.49
1:E:454:GLU:O	1:E:480:VAL:HG22	2.13	0.49
1:F:243:VAL:HG13	1:F:243:VAL:O	2.13	0.49
1:F:350:ILE:O	1:F:350:ILE:HG22	2.13	0.49
1:G:515:ASP:CG	1:G:516:VAL:N	2.66	0.49
1:G:553:PRO:CG	1:H:425:ALA:HB1	2.35	0.49
1:H:262:SER:CA	1:H:283:VAL:HG11	2.42	0.49
1:H:454:GLU:O	1:H:480:VAL:HG22	2.13	0.49
1:I:431:ASN:OD1	1:I:432:SER:N	2.45	0.49
1:J:459:ILE:HG22	1:J:460:THR:N	2.28	0.49
1:K:343:ASN:HB2	1:K:419:TRP:CE2	2.47	0.49
1:K:558:ILE:HG23	1:K:559:PRO:HD2	1.95	0.49
1:L:217:ASP:N	1:L:220:VAL:HB	2.27	0.49
1:L:515:ASP:CG	1:L:516:VAL:N	2.66	0.49
1:M:167:GLU:HG2	1:M:214:ILE:CB	2.41	0.49
1:M:515:ASP:CG	1:M:516:VAL:N	2.66	0.49
1:N:515:ASP:CG	1:N:516:VAL:N	2.66	0.49
1:O:343:ASN:HB2	1:O:419:TRP:CE2	2.47	0.49
1:A:105:ALA:HB2	1:O:219:LYS:HZ1	1.77	0.49
1:A:121:LEU:HD22	1:A:151:LEU:CD1	2.42	0.49
1:A:246:LEU:HD22	1:A:251:ALA:CB	2.40	0.49
1:A:313:LEU:HD11	1:B:295:VAL:CG2	2.41	0.49
1:A:622:HIS:HB3	1:N:572:VAL:HG11	1.93	0.49
1:B:324:ALA:HB3	1:B:438:PRO:HD2	1.94	0.49
1:B:549:GLU:OE2	1:B:551:LYS:HE2	2.12	0.49
1:C:223:ARG:NE	1:C:226:ARG:HH22	2.08	0.49
1:E:206:ASP:OD2	1:E:208:ARG:CB	2.59	0.49
1:E:422:LEU:O	1:E:422:LEU:HD23	2.13	0.49
1:G:343:ASN:HB2	1:G:419:TRP:CE2	2.47	0.49
1:G:346:THR:O	1:G:346:THR:HG22	2.13	0.49
1:I:138:ILE:CG2	1:I:139:ILE:N	2.71	0.49
1:I:529:VAL:HB	1:I:583:PRO:HG3	1.95	0.49
1:J:205:ALA:HA	1:J:211:SER:O	2.12	0.49
1:J:529:VAL:HB	1:J:583:PRO:HG3	1.94	0.49
1:J:549:GLU:OE2	1:J:551:LYS:HE2	2.12	0.49
1:J:597:GLN:O	1:J:598:ARG:C	2.50	0.49
1:K:522:GLN:HG2	1:L:451:ILE:HG22	1.93	0.49
1:L:121:LEU:HD22	1:L:151:LEU:CD1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:324:ALA:HB3	1:L:438:PRO:HD2	1.94	0.49
1:L:597:GLN:O	1:L:598:ARG:C	2.50	0.49
1:N:324:ALA:HB3	1:N:438:PRO:HD2	1.94	0.49
1:N:558:ILE:HG23	1:N:559:PRO:HD2	1.95	0.49
1:O:515:ASP:CG	1:O:516:VAL:N	2.66	0.49
1:A:223:ARG:NE	1:A:226:ARG:HH22	2.08	0.49
1:A:578:MET:CG	1:B:603:ILE:HD11	2.42	0.49
1:B:223:ARG:NE	1:B:226:ARG:HH22	2.08	0.49
1:B:459:ILE:HG22	1:B:460:THR:N	2.28	0.49
1:D:454:GLU:O	1:D:480:VAL:HG22	2.13	0.49
1:E:243:VAL:HG13	1:E:243:VAL:O	2.13	0.49
1:F:558:ILE:HG23	1:F:559:PRO:HD2	1.95	0.49
1:G:350:ILE:HA	1:H:410:ALA:HA	1.94	0.49
1:H:515:ASP:CG	1:H:516:VAL:N	2.66	0.49
1:I:515:ASP:CG	1:I:516:VAL:N	2.66	0.49
1:I:558:ILE:HG23	1:I:559:PRO:HD2	1.95	0.49
1:J:364:VAL:HG21	1:K:401:ALA:HB2	1.94	0.49
1:J:417:GLY:O	1:J:418:ASP:CB	2.58	0.49
1:J:553:PRO:CG	1:K:425:ALA:HB1	2.35	0.49
1:K:454:GLU:O	1:K:480:VAL:HG22	2.13	0.49
1:K:597:GLN:O	1:K:598:ARG:C	2.50	0.49
1:L:214:ILE:HD13	1:L:220:VAL:HG12	1.84	0.49
1:L:454:GLU:O	1:L:480:VAL:HG22	2.13	0.49
1:L:558:ILE:HG23	1:L:559:PRO:HD2	1.95	0.49
1:M:422:LEU:O	1:M:422:LEU:HD23	2.13	0.49
1:N:224:LEU:O	1:N:224:LEU:CG	2.60	0.49
1:N:350:ILE:HA	1:O:410:ALA:HA	1.94	0.49
1:C:121:LEU:HD22	1:C:151:LEU:CD1	2.42	0.49
1:D:121:LEU:HD22	1:D:151:LEU:CD1	2.42	0.49
1:E:262:SER:CA	1:E:283:VAL:HG11	2.41	0.49
1:E:364:VAL:HG21	1:F:401:ALA:HB2	1.94	0.49
1:E:529:VAL:HB	1:E:583:PRO:HG3	1.95	0.49
1:F:350:ILE:HA	1:G:410:ALA:HA	1.94	0.49
1:F:422:LEU:HD23	1:F:422:LEU:O	2.12	0.49
1:G:529:VAL:HB	1:G:583:PRO:HG3	1.95	0.49
1:G:549:GLU:OE2	1:G:551:LYS:HE2	2.12	0.49
1:H:343:ASN:HB2	1:H:419:TRP:CE2	2.47	0.49
1:H:350:ILE:HA	1:I:410:ALA:HA	1.94	0.49
1:H:364:VAL:HG21	1:I:401:ALA:HB2	1.94	0.49
1:H:558:ILE:HG23	1:H:559:PRO:HD2	1.95	0.49
1:I:108:ASN:OD1	1:I:109:VAL:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:343:ASN:HB2	1:I:419:TRP:CE2	2.47	0.49
1:J:343:ASN:HB2	1:J:419:TRP:CE2	2.47	0.49
1:K:350:ILE:HA	1:L:410:ALA:HA	1.94	0.49
1:K:549:GLU:OE2	1:K:551:LYS:HE2	2.13	0.49
1:L:167:GLU:HG2	1:L:214:ILE:CB	2.41	0.49
1:L:296:LEU:HD22	1:L:306:LEU:HD13	1.95	0.49
1:M:312:GLN:HB2	1:N:243:VAL:HG11	1.95	0.49
1:M:597:GLN:O	1:M:598:ARG:C	2.50	0.49
1:N:312:GLN:HB2	1:O:243:VAL:HG11	1.95	0.49
1:N:422:LEU:HD23	1:N:422:LEU:O	2.13	0.49
1:A:422:LEU:HD23	1:A:422:LEU:O	2.13	0.49
1:B:133:TYR:O	1:B:133:TYR:CG	2.66	0.49
1:B:169:VAL:CG1	1:B:228:ILE:CG2	2.85	0.49
1:B:350:ILE:HA	1:C:410:ALA:HA	1.94	0.49
1:B:422:LEU:O	1:B:422:LEU:HD23	2.13	0.49
1:C:480:VAL:O	1:C:480:VAL:CG2	2.61	0.49
1:D:529:VAL:HB	1:D:583:PRO:HG3	1.95	0.49
1:F:515:ASP:CG	1:F:516:VAL:N	2.66	0.49
1:G:480:VAL:O	1:G:480:VAL:CG2	2.61	0.49
1:G:558:ILE:HG23	1:G:559:PRO:HD2	1.95	0.49
1:H:597:GLN:O	1:H:598:ARG:C	2.50	0.49
1:I:549:GLU:OE2	1:I:551:LYS:HE2	2.12	0.49
1:J:296:LEU:HD22	1:J:306:LEU:HD13	1.95	0.49
1:J:444:ASP:OD2	1:J:490:ILE:CG1	2.58	0.49
1:J:578:MET:CG	1:K:603:ILE:HD11	2.43	0.49
1:K:262:SER:CA	1:K:283:VAL:HG11	2.41	0.49
1:K:364:VAL:HG21	1:L:401:ALA:HB2	1.94	0.49
1:L:431:ASN:OD1	1:L:432:SER:N	2.45	0.49
1:M:350:ILE:O	1:M:350:ILE:HG22	2.12	0.49
1:M:522:GLN:HG2	1:N:451:ILE:HG22	1.94	0.49
1:N:133:TYR:O	1:N:133:TYR:CG	2.66	0.49
1:N:206:ASP:OD2	1:N:208:ARG:CB	2.59	0.49
1:A:219:LYS:HZ2	1:B:105:ALA:HB2	1.77	0.49
1:A:324:ALA:HB3	1:A:438:PRO:HD2	1.93	0.49
1:A:410:ALA:HA	1:O:350:ILE:HA	1.94	0.49
1:B:101:THR:OG1	1:B:142:THR:HG23	2.13	0.49
1:B:106:VAL:HG11	1:B:158:VAL:HG22	1.93	0.49
1:B:597:GLN:O	1:B:598:ARG:C	2.50	0.49
1:C:296:LEU:HD22	1:C:306:LEU:HD13	1.95	0.49
1:C:313:LEU:HD11	1:D:295:VAL:CG2	2.41	0.49
1:C:529:VAL:HB	1:C:583:PRO:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:133:TYR:O	1:E:133:TYR:CG	2.66	0.49
1:F:217:ASP:N	1:F:220:VAL:HB	2.27	0.49
1:F:435:LEU:HD11	1:G:626:LEU:HD23	1.95	0.49
1:I:101:THR:OG1	1:I:142:THR:HG23	2.13	0.49
1:I:204:VAL:HG12	1:I:205:ALA:H	1.70	0.49
1:I:337:LEU:HB3	1:K:617:LEU:HD11	1.93	0.49
1:I:346:THR:O	1:I:346:THR:HG22	2.13	0.49
1:I:364:VAL:HG21	1:J:401:ALA:HB2	1.94	0.49
1:J:312:GLN:HB2	1:K:243:VAL:HG11	1.95	0.49
1:J:330:ALA:O	1:J:432:SER:N	2.41	0.49
1:K:167:GLU:HG2	1:K:214:ILE:CB	2.41	0.49
1:K:515:ASP:CG	1:K:516:VAL:N	2.66	0.49
1:M:133:TYR:O	1:M:133:TYR:CG	2.66	0.49
1:M:454:GLU:O	1:M:480:VAL:HG22	2.13	0.49
1:N:101:THR:OG1	1:N:142:THR:HG23	2.13	0.49
1:A:549:GLU:OE2	1:A:551:LYS:HE2	2.12	0.48
1:A:617:LEU:CD1	1:N:337:LEU:HB3	2.43	0.48
1:B:320:VAL:HA	1:B:584:THR:O	2.13	0.48
1:B:350:ILE:O	1:B:350:ILE:HG22	2.12	0.48
1:C:578:MET:CG	1:D:603:ILE:HD11	2.42	0.48
1:F:266:GLN:HA	1:F:302:ILE:HD11	1.94	0.48
1:H:553:PRO:CG	1:I:425:ALA:HB1	2.36	0.48
1:J:224:LEU:O	1:J:224:LEU:CG	2.59	0.48
1:J:324:ALA:HB3	1:J:438:PRO:HD2	1.94	0.48
1:J:350:ILE:HA	1:K:410:ALA:HA	1.94	0.48
1:K:313:LEU:HD11	1:L:295:VAL:CG2	2.41	0.48
1:K:497:GLN:HG3	1:L:443:MET:HE2	1.95	0.48
1:K:529:VAL:HB	1:K:583:PRO:HG3	1.94	0.48
1:K:609:TYR:O	1:K:612:GLU:N	2.37	0.48
1:L:364:VAL:HG21	1:M:401:ALA:HB2	1.94	0.48
1:L:549:GLU:OE2	1:L:551:LYS:HE2	2.13	0.48
1:M:558:ILE:HG23	1:M:559:PRO:HD2	1.95	0.48
1:N:366:LEU:HD23	1:N:400:LEU:HD22	1.95	0.48
1:N:578:MET:CG	1:O:603:ILE:HD11	2.43	0.48
1:O:444:ASP:OD2	1:O:490:ILE:CG1	2.58	0.48
1:A:295:VAL:CG2	1:O:313:LEU:HD11	2.41	0.48
1:A:454:GLU:O	1:A:480:VAL:HG22	2.13	0.48
1:A:459:ILE:HG22	1:A:460:THR:N	2.28	0.48
1:B:346:THR:O	1:B:346:THR:HG22	2.12	0.48
1:B:480:VAL:O	1:B:480:VAL:CG2	2.61	0.48
1:C:350:ILE:HA	1:D:410:ALA:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:364:VAL:HG21	1:D:401:ALA:HB2	1.94	0.48
1:C:422:LEU:O	1:C:422:LEU:HD23	2.13	0.48
1:C:597:GLN:O	1:C:598:ARG:C	2.50	0.48
1:D:597:GLN:O	1:D:598:ARG:C	2.50	0.48
1:E:224:LEU:O	1:E:224:LEU:CG	2.59	0.48
1:E:346:THR:HG22	1:E:346:THR:O	2.13	0.48
1:E:350:ILE:HA	1:F:410:ALA:HA	1.94	0.48
1:E:435:LEU:HD11	1:F:626:LEU:HD23	1.95	0.48
1:E:459:ILE:HG22	1:E:460:THR:N	2.28	0.48
1:F:346:THR:O	1:F:346:THR:HG22	2.13	0.48
1:F:364:VAL:HG21	1:G:401:ALA:HB2	1.94	0.48
1:G:320:VAL:HA	1:G:584:THR:O	2.13	0.48
1:H:233:VAL:O	1:H:235:MET:CE	2.54	0.48
1:I:313:LEU:HD11	1:J:295:VAL:CG2	2.41	0.48
1:I:454:GLU:O	1:I:480:VAL:HG22	2.13	0.48
1:J:167:GLU:HG2	1:J:214:ILE:CB	2.41	0.48
1:J:454:GLU:O	1:J:480:VAL:HG22	2.12	0.48
1:K:422:LEU:O	1:K:422:LEU:HD23	2.13	0.48
1:L:133:TYR:O	1:L:133:TYR:CG	2.66	0.48
1:L:243:VAL:O	1:L:243:VAL:HG13	2.13	0.48
1:L:312:GLN:HB2	1:M:243:VAL:HG11	1.95	0.48
1:O:121:LEU:HD22	1:O:151:LEU:CD1	2.42	0.48
1:O:133:TYR:O	1:O:133:TYR:CG	2.67	0.48
1:O:459:ILE:HG22	1:O:460:THR:N	2.28	0.48
1:O:558:ILE:HG23	1:O:559:PRO:HD2	1.95	0.48
1:A:451:ILE:HG22	1:O:522:GLN:HG2	1.94	0.48
1:B:578:MET:CG	1:C:603:ILE:HD11	2.42	0.48
1:C:133:TYR:O	1:C:133:TYR:CG	2.66	0.48
1:C:558:ILE:HG23	1:C:559:PRO:HD2	1.95	0.48
1:D:523:LEU:HD21	1:D:538:GLY:CA	2.43	0.48
1:D:578:MET:CG	1:E:603:ILE:HD11	2.43	0.48
1:E:558:ILE:HG23	1:E:559:PRO:HD2	1.95	0.48
1:E:572:VAL:CG2	1:G:615:LEU:HD13	2.44	0.48
1:E:609:TYR:O	1:E:612:GLU:N	2.37	0.48
1:G:133:TYR:O	1:G:133:TYR:CG	2.66	0.48
1:G:322:ILE:CD1	1:G:498:LEU:CD2	2.91	0.48
1:G:459:ILE:HG22	1:G:460:THR:N	2.28	0.48
1:H:101:THR:OG1	1:H:142:THR:HG23	2.13	0.48
1:I:206:ASP:OD2	1:I:208:ARG:CB	2.59	0.48
1:I:312:GLN:HB2	1:J:243:VAL:HG11	1.95	0.48
1:I:553:PRO:CG	1:J:425:ALA:HB1	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:108:ASN:OD1	1:J:109:VAL:N	2.44	0.48
1:J:435:LEU:HD11	1:K:626:LEU:HD23	1.95	0.48
1:K:243:VAL:HG13	1:K:243:VAL:O	2.13	0.48
1:K:312:GLN:HB2	1:L:243:VAL:HG11	1.95	0.48
1:L:320:VAL:HA	1:L:584:THR:O	2.13	0.48
1:M:364:VAL:HG21	1:N:401:ALA:HB2	1.94	0.48
1:M:366:LEU:HD23	1:M:400:LEU:HD22	1.95	0.48
1:N:459:ILE:HG22	1:N:460:THR:N	2.28	0.48
1:A:522:GLN:HG2	1:B:451:ILE:HG22	1.94	0.48
1:A:572:VAL:CG2	1:C:615:LEU:HD13	2.44	0.48
1:B:296:LEU:HD22	1:B:306:LEU:HD13	1.95	0.48
1:B:615:LEU:HD13	1:O:572:VAL:CG2	2.43	0.48
1:C:106:VAL:HG11	1:C:158:VAL:HG22	1.93	0.48
1:C:459:ILE:HG22	1:C:460:THR:N	2.28	0.48
1:D:133:TYR:O	1:D:133:TYR:CG	2.66	0.48
1:D:364:VAL:HG21	1:E:401:ALA:HB2	1.94	0.48
1:D:558:ILE:HG23	1:D:559:PRO:HD2	1.95	0.48
1:E:350:ILE:O	1:E:350:ILE:HG22	2.13	0.48
1:F:133:TYR:O	1:F:133:TYR:CG	2.66	0.48
1:F:352:TYR:CD2	1:F:567:SER:CB	2.92	0.48
1:F:433:ASN:OD1	1:G:607:GLN:NE2	2.47	0.48
1:F:480:VAL:O	1:F:480:VAL:CG2	2.61	0.48
1:G:364:VAL:HG21	1:H:401:ALA:HB2	1.94	0.48
1:G:444:ASP:OD2	1:G:490:ILE:CG1	2.58	0.48
1:H:350:ILE:HG22	1:H:350:ILE:O	2.13	0.48
1:H:572:VAL:CG2	1:J:615:LEU:HD13	2.44	0.48
1:I:350:ILE:HA	1:J:410:ALA:HA	1.94	0.48
1:I:350:ILE:O	1:I:350:ILE:HG22	2.13	0.48
1:J:101:THR:OG1	1:J:142:THR:HG23	2.13	0.48
1:J:133:TYR:O	1:J:133:TYR:CG	2.66	0.48
1:J:350:ILE:O	1:J:350:ILE:HG22	2.13	0.48
1:J:442:VAL:HG11	1:J:488:PRO:CG	2.21	0.48
1:J:609:TYR:O	1:J:612:GLU:N	2.38	0.48
1:K:320:VAL:HA	1:K:584:THR:O	2.13	0.48
1:L:313:LEU:HD11	1:M:295:VAL:CG2	2.41	0.48
1:L:350:ILE:O	1:L:350:ILE:HG22	2.13	0.48
1:L:459:ILE:HG22	1:L:460:THR:N	2.28	0.48
1:M:296:LEU:HD22	1:M:306:LEU:HD13	1.95	0.48
1:N:454:GLU:O	1:N:480:VAL:HG22	2.12	0.48
1:O:480:VAL:O	1:O:480:VAL:CG2	2.61	0.48
1:A:243:VAL:HG11	1:O:312:GLN:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:617:LEU:CD1	1:O:337:LEU:HB3	2.44	0.48
1:C:101:THR:OG1	1:C:142:THR:HG23	2.13	0.48
1:C:523:LEU:HD21	1:C:538:GLY:CA	2.44	0.48
1:D:320:VAL:HA	1:D:584:THR:O	2.13	0.48
1:E:296:LEU:HD22	1:E:306:LEU:HD13	1.95	0.48
1:E:578:MET:CG	1:F:603:ILE:HD11	2.43	0.48
1:F:320:VAL:HA	1:F:584:THR:O	2.14	0.48
1:F:366:LEU:HD23	1:F:400:LEU:HD22	1.95	0.48
1:G:101:THR:OG1	1:G:142:THR:HG23	2.13	0.48
1:G:352:TYR:CD2	1:G:567:SER:CB	2.92	0.48
1:G:612:GLU:CG	1:H:642:PHE:HE2	2.24	0.48
1:H:320:VAL:HA	1:H:584:THR:O	2.13	0.48
1:I:167:GLU:HG2	1:I:214:ILE:CB	2.41	0.48
1:I:435:LEU:HD11	1:J:626:LEU:HD23	1.95	0.48
1:I:609:TYR:O	1:I:612:GLU:N	2.37	0.48
1:K:224:LEU:HD12	1:K:227:LEU:HB2	1.95	0.48
1:K:459:ILE:HG22	1:K:460:THR:N	2.28	0.48
1:L:572:VAL:CG2	1:N:615:LEU:HD13	2.43	0.48
1:N:435:LEU:HD11	1:O:626:LEU:HD23	1.96	0.48
1:O:173:ASN:ND2	1:O:235:MET:HE1	2.28	0.48
1:O:206:ASP:OD2	1:O:208:ARG:CB	2.59	0.48
1:O:246:LEU:HD22	1:O:251:ALA:CB	2.40	0.48
1:O:366:LEU:HD23	1:O:400:LEU:HD22	1.95	0.48
1:A:350:ILE:HA	1:B:410:ALA:HA	1.94	0.48
1:B:167:GLU:CG	1:B:214:ILE:CG2	2.68	0.48
1:B:558:ILE:HG23	1:B:559:PRO:HD2	1.95	0.48
1:E:515:ASP:CG	1:E:516:VAL:N	2.66	0.48
1:G:609:TYR:O	1:G:612:GLU:N	2.37	0.48
1:H:138:ILE:CG2	1:H:139:ILE:N	2.71	0.48
1:H:459:ILE:HG22	1:H:460:THR:N	2.29	0.48
1:H:549:GLU:OE2	1:H:551:LYS:HE2	2.13	0.48
1:H:609:TYR:O	1:H:612:GLU:N	2.37	0.48
1:I:459:ILE:HG22	1:I:460:THR:N	2.28	0.48
1:J:224:LEU:HD12	1:J:227:LEU:HB2	1.95	0.48
1:K:133:TYR:O	1:K:133:TYR:CG	2.66	0.48
1:K:324:ALA:HB3	1:K:438:PRO:HD2	1.94	0.48
1:M:101:THR:OG1	1:M:142:THR:HG23	2.13	0.48
1:M:243:VAL:HG13	1:M:243:VAL:O	2.12	0.48
1:M:320:VAL:HA	1:M:584:THR:O	2.13	0.48
1:M:459:ILE:HG22	1:M:460:THR:N	2.28	0.48
1:N:320:VAL:HA	1:N:584:THR:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:549:GLU:OE2	1:N:551:LYS:HE2	2.12	0.48
1:O:243:VAL:O	1:O:243:VAL:HG13	2.13	0.48
1:O:324:ALA:HB3	1:O:438:PRO:HD2	1.94	0.48
1:O:422:LEU:HD23	1:O:422:LEU:O	2.13	0.48
1:O:454:GLU:O	1:O:480:VAL:HG22	2.13	0.48
1:A:214:ILE:HD13	1:A:220:VAL:HG12	1.84	0.48
1:A:243:VAL:O	1:A:243:VAL:HG13	2.13	0.48
1:A:320:VAL:HA	1:A:584:THR:O	2.13	0.48
1:A:435:LEU:HD11	1:B:626:LEU:HD23	1.95	0.48
1:C:539:GLY:HA2	1:C:577:LEU:O	2.14	0.48
1:D:173:ASN:ND2	1:D:235:MET:HE1	2.28	0.48
1:D:243:VAL:O	1:D:243:VAL:HG13	2.13	0.48
1:D:366:LEU:HD23	1:D:400:LEU:HD22	1.95	0.48
1:E:366:LEU:HD23	1:E:400:LEU:HD22	1.95	0.48
1:F:101:THR:OG1	1:F:142:THR:HG23	2.13	0.48
1:F:497:GLN:HG3	1:G:443:MET:HE2	1.95	0.48
1:G:572:VAL:CG2	1:I:615:LEU:HD13	2.44	0.48
1:I:572:VAL:CG2	1:K:615:LEU:HD13	2.44	0.48
1:J:539:GLY:HA2	1:J:577:LEU:O	2.14	0.48
1:K:105:ALA:O	1:K:159:ASP:HB2	2.14	0.48
1:K:435:LEU:HD11	1:L:626:LEU:HD23	1.95	0.48
1:K:523:LEU:HD21	1:K:538:GLY:CA	2.43	0.48
1:L:529:VAL:HB	1:L:583:PRO:HG3	1.95	0.48
1:M:435:LEU:HD11	1:N:626:LEU:HD23	1.96	0.48
1:N:346:THR:O	1:N:346:THR:HG22	2.12	0.48
1:O:169:VAL:CG1	1:O:228:ILE:CG2	2.85	0.48
1:O:224:LEU:O	1:O:224:LEU:CG	2.59	0.48
1:O:549:GLU:OE2	1:O:551:LYS:HE2	2.13	0.48
1:A:366:LEU:HD23	1:A:400:LEU:HD22	1.95	0.48
1:A:558:ILE:HG23	1:A:559:PRO:HD2	1.95	0.48
1:B:168:VAL:HG23	1:B:168:VAL:O	2.14	0.48
1:B:529:VAL:HB	1:B:583:PRO:HG3	1.95	0.48
1:C:435:LEU:HD11	1:D:626:LEU:HD23	1.95	0.48
1:D:350:ILE:HA	1:E:410:ALA:HA	1.94	0.48
1:F:609:TYR:O	1:F:612:GLU:N	2.37	0.48
1:G:169:VAL:HG21	1:G:228:ILE:CD1	2.35	0.48
1:G:224:LEU:HD12	1:G:227:LEU:HB2	1.95	0.48
1:H:224:LEU:HD12	1:H:227:LEU:HB2	1.95	0.48
1:J:105:ALA:O	1:J:159:ASP:HB2	2.14	0.48
1:J:346:THR:O	1:J:346:THR:HG22	2.13	0.48
1:K:572:VAL:CG2	1:M:615:LEU:HD13	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:612:GLU:CG	1:M:642:PHE:HE2	2.27	0.48
1:M:549:GLU:OE2	1:M:551:LYS:HE2	2.12	0.48
1:N:243:VAL:HG13	1:N:243:VAL:O	2.12	0.48
1:O:101:THR:OG1	1:O:142:THR:HG23	2.13	0.48
1:O:296:LEU:HD22	1:O:306:LEU:HD13	1.95	0.48
1:O:320:VAL:HA	1:O:584:THR:O	2.13	0.48
1:O:529:VAL:HB	1:O:583:PRO:HG3	1.94	0.48
1:A:101:THR:OG1	1:A:142:THR:HG23	2.13	0.48
1:A:168:VAL:O	1:A:168:VAL:HG23	2.14	0.48
1:A:322:ILE:CD1	1:A:498:LEU:CD2	2.91	0.48
1:B:312:GLN:HB2	1:C:243:VAL:HG11	1.95	0.48
1:B:366:LEU:HD23	1:B:400:LEU:HD22	1.95	0.48
1:D:167:GLU:CG	1:D:214:ILE:CG2	2.68	0.48
1:E:320:VAL:HA	1:E:584:THR:O	2.14	0.48
1:H:133:TYR:O	1:H:133:TYR:CG	2.66	0.48
1:I:133:TYR:O	1:I:133:TYR:CG	2.66	0.48
1:J:337:LEU:HB3	1:L:617:LEU:CD1	2.44	0.48
1:J:572:VAL:CG2	1:L:615:LEU:HD13	2.44	0.48
1:K:108:ASN:OD1	1:K:109:VAL:N	2.44	0.48
1:K:346:THR:HG22	1:K:346:THR:O	2.13	0.48
1:L:105:ALA:O	1:L:159:ASP:HB2	2.14	0.48
1:L:366:LEU:HD23	1:L:400:LEU:HD22	1.95	0.48
1:M:351:GLN:NE2	1:M:358:PRO:CB	2.77	0.48
1:N:364:VAL:HG21	1:O:401:ALA:HB2	1.95	0.48
1:N:407:VAL:HG11	1:N:411:ALA:HB2	1.96	0.48
1:N:529:VAL:HB	1:N:583:PRO:HG3	1.94	0.48
1:A:337:LEU:HB3	1:C:617:LEU:CD1	2.44	0.48
1:A:523:LEU:HD21	1:A:538:GLY:CA	2.43	0.48
1:A:626:LEU:HD23	1:O:435:LEU:HD11	1.96	0.48
1:A:642:PHE:HE2	1:O:612:GLU:CG	2.23	0.48
1:C:366:LEU:HD23	1:C:400:LEU:HD22	1.95	0.48
1:C:572:VAL:CG2	1:E:615:LEU:HD13	2.44	0.48
1:D:337:LEU:HB3	1:F:617:LEU:CD1	2.44	0.48
1:E:351:GLN:NE2	1:E:358:PRO:CB	2.77	0.48
1:F:105:ALA:O	1:F:159:ASP:HB2	2.14	0.48
1:F:224:LEU:HD12	1:F:227:LEU:HB2	1.96	0.48
1:F:337:LEU:HB3	1:H:617:LEU:CD1	2.44	0.48
1:F:578:MET:CG	1:G:603:ILE:HD11	2.42	0.48
1:G:265:LEU:HD23	1:G:302:ILE:HG12	1.96	0.48
1:G:366:LEU:HD23	1:G:400:LEU:HD22	1.95	0.48
1:H:167:GLU:HG2	1:H:214:ILE:CB	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:296:LEU:HD22	1:H:306:LEU:HD13	1.95	0.48
1:H:422:LEU:O	1:H:422:LEU:HD23	2.13	0.48
1:I:224:LEU:HD12	1:I:227:LEU:HB2	1.96	0.48
1:I:265:LEU:HD23	1:I:302:ILE:HG12	1.96	0.48
1:J:515:ASP:CG	1:J:516:VAL:N	2.66	0.48
1:M:168:VAL:HG23	1:M:168:VAL:O	2.14	0.48
1:N:168:VAL:HG23	1:N:168:VAL:O	2.14	0.48
1:A:105:ALA:O	1:A:159:ASP:HB2	2.14	0.47
1:A:312:GLN:HB2	1:B:243:VAL:HG11	1.96	0.47
1:A:480:VAL:O	1:A:480:VAL:CG2	2.62	0.47
1:B:433:ASN:OD1	1:C:607:GLN:NE2	2.46	0.47
1:B:523:LEU:HD21	1:B:538:GLY:CA	2.44	0.47
1:B:539:GLY:HA2	1:B:577:LEU:O	2.14	0.47
1:B:572:VAL:CG2	1:D:615:LEU:HD13	2.44	0.47
1:C:243:VAL:HG13	1:C:243:VAL:O	2.13	0.47
1:C:312:GLN:HB2	1:D:243:VAL:HG11	1.95	0.47
1:C:350:ILE:HG22	1:C:350:ILE:O	2.13	0.47
1:D:169:VAL:CG1	1:D:228:ILE:CG2	2.85	0.47
1:D:228:ILE:O	1:D:232:ASP:OD1	2.32	0.47
1:E:168:VAL:HG23	1:E:168:VAL:O	2.14	0.47
1:F:312:GLN:HB2	1:G:243:VAL:HG11	1.95	0.47
1:F:539:GLY:HA2	1:F:577:LEU:O	2.14	0.47
1:G:296:LEU:HD22	1:G:306:LEU:HD13	1.95	0.47
1:H:265:LEU:HD23	1:H:302:ILE:HG12	1.96	0.47
1:I:296:LEU:HD22	1:I:306:LEU:HD13	1.95	0.47
1:I:422:LEU:HD23	1:I:422:LEU:O	2.13	0.47
1:I:551:LYS:O	1:I:553:PRO:CD	2.62	0.47
1:K:101:THR:OG1	1:K:142:THR:HG23	2.13	0.47
1:L:523:LEU:HD21	1:L:538:GLY:CA	2.44	0.47
1:M:407:VAL:HG11	1:M:411:ALA:HB2	1.96	0.47
1:O:168:VAL:HG23	1:O:168:VAL:O	2.14	0.47
1:A:133:TYR:O	1:A:133:TYR:CG	2.66	0.47
1:A:542:ASP:OD2	1:A:544:ARG:NH2	2.47	0.47
1:A:618:MET:HE1	1:N:333:ASP:HB3	1.96	0.47
1:B:243:VAL:O	1:B:243:VAL:HG13	2.12	0.47
1:B:542:ASP:OD2	1:B:544:ARG:NH2	2.47	0.47
1:B:551:LYS:O	1:B:553:PRO:CD	2.63	0.47
1:C:228:ILE:O	1:C:232:ASP:OD1	2.32	0.47
1:C:351:GLN:NE2	1:C:358:PRO:CB	2.77	0.47
1:C:596:THR:O	1:C:597:GLN:C	2.53	0.47
1:D:515:ASP:CG	1:D:516:VAL:N	2.66	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:596:THR:O	1:D:597:GLN:C	2.52	0.47
1:E:101:THR:OG1	1:E:142:THR:HG23	2.13	0.47
1:E:105:ALA:O	1:E:159:ASP:HB2	2.14	0.47
1:E:228:ILE:O	1:E:232:ASP:OD1	2.32	0.47
1:F:542:ASP:OD2	1:F:544:ARG:NH2	2.47	0.47
1:G:105:ALA:O	1:G:159:ASP:HB2	2.14	0.47
1:G:312:GLN:HB2	1:H:243:VAL:HG11	1.95	0.47
1:G:422:LEU:O	1:G:422:LEU:HD23	2.14	0.47
1:H:312:GLN:HB2	1:I:243:VAL:HG11	1.95	0.47
1:H:612:GLU:CG	1:I:642:PHE:HE2	2.25	0.47
1:I:320:VAL:HA	1:I:584:THR:O	2.13	0.47
1:J:121:LEU:HD22	1:J:151:LEU:CD1	2.42	0.47
1:J:551:LYS:O	1:J:553:PRO:CD	2.63	0.47
1:J:596:THR:O	1:J:597:GLN:C	2.52	0.47
1:K:296:LEU:HD22	1:K:306:LEU:HD13	1.95	0.47
1:K:539:GLY:HA2	1:K:577:LEU:O	2.15	0.47
1:L:224:LEU:HD12	1:L:227:LEU:HB2	1.96	0.47
1:L:435:LEU:HD11	1:M:626:LEU:HD23	1.95	0.47
1:O:108:ASN:OD1	1:O:109:VAL:N	2.44	0.47
1:O:350:ILE:O	1:O:350:ILE:HG22	2.13	0.47
1:A:286:ALA:O	1:A:295:VAL:N	2.40	0.47
1:A:350:ILE:O	1:A:350:ILE:HG22	2.13	0.47
1:B:105:ALA:O	1:B:159:ASP:HB2	2.14	0.47
1:B:435:LEU:HD11	1:C:626:LEU:HD23	1.96	0.47
1:C:322:ILE:CD1	1:C:498:LEU:CD2	2.92	0.47
1:C:523:LEU:CD1	1:D:440:ILE:HD11	2.37	0.47
1:D:350:ILE:O	1:D:350:ILE:HG22	2.13	0.47
1:E:121:LEU:HD21	1:E:147:VAL:O	2.14	0.47
1:E:224:LEU:HD12	1:E:227:LEU:HB2	1.96	0.47
1:E:337:LEU:HB3	1:G:617:LEU:CD1	2.45	0.47
1:F:206:ASP:OD2	1:F:208:ARG:CB	2.59	0.47
1:F:322:ILE:CD1	1:F:498:LEU:CD2	2.92	0.47
1:H:105:ALA:O	1:H:159:ASP:HB2	2.14	0.47
1:I:105:ALA:O	1:I:159:ASP:HB2	2.14	0.47
1:J:366:LEU:HD23	1:J:400:LEU:HD22	1.95	0.47
1:J:422:LEU:O	1:J:422:LEU:HD23	2.13	0.47
1:K:337:LEU:HB3	1:M:617:LEU:CD1	2.44	0.47
1:L:108:ASN:OD1	1:L:109:VAL:N	2.44	0.47
1:L:298:ALA:HB3	1:L:303:MET:HE2	1.96	0.47
1:L:321:LEU:N	1:L:584:THR:O	2.42	0.47
1:L:539:GLY:HA2	1:L:577:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:529:VAL:HB	1:M:583:PRO:HG3	1.95	0.47
1:N:108:ASN:OD1	1:N:109:VAL:N	2.44	0.47
1:N:219:LYS:HZ1	1:O:105:ALA:HB2	1.80	0.47
1:A:285:ILE:HD11	1:A:306:LEU:HD22	1.97	0.47
1:A:443:MET:HE2	1:O:497:GLN:HG3	1.96	0.47
1:B:228:ILE:O	1:B:232:ASP:OD1	2.32	0.47
1:C:105:ALA:O	1:C:159:ASP:HB2	2.14	0.47
1:C:320:VAL:HA	1:C:584:THR:O	2.13	0.47
1:C:346:THR:HG22	1:C:346:THR:O	2.13	0.47
1:D:121:LEU:HD21	1:D:147:VAL:O	2.15	0.47
1:D:459:ILE:HG22	1:D:460:THR:N	2.28	0.47
1:D:572:VAL:CG2	1:F:615:LEU:HD13	2.44	0.47
1:F:204:VAL:HB	1:F:213:LEU:HB2	1.97	0.47
1:F:228:ILE:O	1:F:232:ASP:OD1	2.32	0.47
1:F:296:LEU:HD22	1:F:306:LEU:HD13	1.95	0.47
1:G:204:VAL:HB	1:G:213:LEU:HB2	1.96	0.47
1:G:337:LEU:HB3	1:I:617:LEU:CD1	2.44	0.47
1:G:351:GLN:NE2	1:G:358:PRO:CB	2.77	0.47
1:L:168:VAL:O	1:L:168:VAL:HG23	2.14	0.47
1:L:283:VAL:HG22	1:L:302:ILE:HG21	1.97	0.47
1:M:108:ASN:OD1	1:M:109:VAL:N	2.44	0.47
1:M:283:VAL:HG22	1:M:302:ILE:HG21	1.96	0.47
1:M:551:LYS:O	1:M:553:PRO:CD	2.63	0.47
1:M:572:VAL:CG2	1:O:615:LEU:HD13	2.44	0.47
1:N:350:ILE:HG22	1:N:350:ILE:O	2.13	0.47
1:O:224:LEU:HD12	1:O:227:LEU:HB2	1.95	0.47
1:O:352:TYR:CD2	1:O:567:SER:CB	2.92	0.47
1:O:407:VAL:HG11	1:O:411:ALA:HB2	1.96	0.47
1:O:523:LEU:HD21	1:O:538:GLY:CA	2.43	0.47
1:A:108:ASN:OD1	1:A:109:VAL:N	2.44	0.47
1:A:121:LEU:HD21	1:A:147:VAL:O	2.15	0.47
1:A:169:VAL:HG21	1:A:228:ILE:CD1	2.35	0.47
1:A:529:VAL:HB	1:A:583:PRO:HG3	1.95	0.47
1:A:539:GLY:HA2	1:A:577:LEU:O	2.14	0.47
1:B:285:ILE:HD11	1:B:306:LEU:HD22	1.97	0.47
1:C:337:LEU:HB3	1:E:617:LEU:CD1	2.45	0.47
1:C:542:ASP:OD2	1:C:544:ARG:NH2	2.48	0.47
1:D:435:LEU:HD11	1:E:626:LEU:HD23	1.96	0.47
1:D:542:ASP:OD2	1:D:544:ARG:NH2	2.48	0.47
1:E:204:VAL:HG12	1:E:205:ALA:H	1.71	0.47
1:E:542:ASP:OD2	1:E:544:ARG:NH2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:121:LEU:HD21	1:F:147:VAL:O	2.14	0.47
1:H:157:ARG:O	1:I:140:LEU:HD13	2.04	0.47
1:H:346:THR:HG22	1:H:346:THR:O	2.15	0.47
1:H:542:ASP:OD2	1:H:544:ARG:NH2	2.48	0.47
1:I:169:VAL:CG1	1:I:228:ILE:CG2	2.85	0.47
1:I:283:VAL:HG22	1:I:302:ILE:HG21	1.97	0.47
1:I:322:ILE:CD1	1:I:498:LEU:CD2	2.92	0.47
1:I:366:LEU:HD23	1:I:400:LEU:HD22	1.95	0.47
1:J:320:VAL:HA	1:J:584:THR:O	2.14	0.47
1:K:283:VAL:HG22	1:K:302:ILE:HG21	1.97	0.47
1:L:407:VAL:HG11	1:L:411:ALA:HB2	1.97	0.47
1:M:105:ALA:O	1:M:159:ASP:HB2	2.14	0.47
1:M:298:ALA:HB3	1:M:303:MET:HE2	1.96	0.47
1:M:346:THR:HG22	1:M:346:THR:O	2.13	0.47
1:M:497:GLN:HG3	1:N:443:MET:HE2	1.96	0.47
1:N:542:ASP:OD2	1:N:544:ARG:NH2	2.48	0.47
1:N:551:LYS:O	1:N:553:PRO:CD	2.63	0.47
1:O:105:ALA:O	1:O:159:ASP:HB2	2.14	0.47
1:O:121:LEU:HD21	1:O:147:VAL:O	2.15	0.47
1:A:500:ILE:HD13	1:A:537:LEU:HD11	1.97	0.47
1:A:551:LYS:O	1:A:553:PRO:CD	2.63	0.47
1:B:596:THR:O	1:B:597:GLN:C	2.52	0.47
1:C:224:LEU:HD12	1:C:227:LEU:HB2	1.95	0.47
1:D:105:ALA:O	1:D:159:ASP:HB2	2.14	0.47
1:D:168:VAL:O	1:D:168:VAL:HG23	2.14	0.47
1:D:500:ILE:HD13	1:D:537:LEU:HD11	1.97	0.47
1:E:204:VAL:HB	1:E:213:LEU:HB2	1.97	0.47
1:E:312:GLN:HB2	1:F:243:VAL:HG11	1.95	0.47
1:E:551:LYS:O	1:E:553:PRO:CD	2.63	0.47
1:F:351:GLN:NE2	1:F:358:PRO:CB	2.77	0.47
1:F:459:ILE:HG22	1:F:460:THR:N	2.28	0.47
1:F:551:LYS:O	1:F:553:PRO:CD	2.63	0.47
1:G:539:GLY:HA2	1:G:577:LEU:O	2.15	0.47
1:H:261:VAL:CG1	1:I:241:ASN:HD22	2.28	0.47
1:H:337:LEU:HB3	1:J:617:LEU:CD1	2.44	0.47
1:H:366:LEU:HD23	1:H:400:LEU:HD22	1.95	0.47
1:I:596:THR:O	1:I:597:GLN:C	2.53	0.47
1:J:206:ASP:OD2	1:J:208:ARG:CB	2.59	0.47
1:J:612:GLU:CG	1:K:642:PHE:HE2	2.26	0.47
1:K:407:VAL:HG11	1:K:411:ALA:HB2	1.96	0.47
1:L:101:THR:OG1	1:L:142:THR:HG23	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:346:THR:O	1:L:346:THR:HG22	2.14	0.47
1:M:337:LEU:HB3	1:O:617:LEU:CD1	2.44	0.47
1:N:121:LEU:HD21	1:N:147:VAL:O	2.14	0.47
1:N:246:LEU:HD22	1:N:251:ALA:CB	2.40	0.47
1:N:285:ILE:HD11	1:N:306:LEU:HD22	1.97	0.47
1:N:352:TYR:CD2	1:N:567:SER:CB	2.92	0.47
1:A:206:ASP:OD2	1:A:208:ARG:CB	2.60	0.47
1:A:224:LEU:HD12	1:A:227:LEU:HB2	1.96	0.47
1:A:228:ILE:O	1:A:232:ASP:OD1	2.32	0.47
1:A:254:LEU:HD23	1:A:294:LEU:CD2	2.44	0.47
1:A:326:ILE:CG1	1:A:502:GLN:HE21	2.27	0.47
1:A:515:ASP:CG	1:A:516:VAL:N	2.66	0.47
1:B:106:VAL:HG22	1:B:159:ASP:CA	2.45	0.47
1:B:108:ASN:OD1	1:B:109:VAL:N	2.44	0.47
1:B:157:ARG:O	1:C:140:LEU:HD11	1.98	0.47
1:B:224:LEU:HD12	1:B:227:LEU:HB2	1.96	0.47
1:B:535:LEU:HD12	1:B:536:VAL:H	1.80	0.47
1:B:615:LEU:HD13	1:O:572:VAL:HG21	1.97	0.47
1:C:121:LEU:HD21	1:C:147:VAL:O	2.15	0.47
1:C:407:VAL:HG11	1:C:411:ALA:HB2	1.96	0.47
1:C:500:ILE:HD13	1:C:537:LEU:HD11	1.97	0.47
1:C:551:LYS:O	1:C:553:PRO:CD	2.63	0.47
1:D:101:THR:OG1	1:D:142:THR:HG23	2.13	0.47
1:D:106:VAL:HG22	1:D:159:ASP:CA	2.45	0.47
1:D:204:VAL:HB	1:D:213:LEU:HB2	1.96	0.47
1:D:296:LEU:HD22	1:D:306:LEU:HD13	1.95	0.47
1:D:312:GLN:HB2	1:E:243:VAL:HG11	1.95	0.47
1:D:346:THR:O	1:D:346:THR:HG22	2.14	0.47
1:D:539:GLY:HA2	1:D:577:LEU:O	2.15	0.47
1:E:106:VAL:HG22	1:E:159:ASP:CA	2.45	0.47
1:E:157:ARG:O	1:F:140:LEU:HD13	2.01	0.47
1:E:321:LEU:HD21	1:E:323:GLU:OE2	2.15	0.47
1:E:480:VAL:O	1:E:480:VAL:CG2	2.62	0.47
1:F:444:ASP:OD2	1:F:490:ILE:CG1	2.58	0.47
1:G:167:GLU:HG2	1:G:214:ILE:CB	2.41	0.47
1:G:435:LEU:HD11	1:H:626:LEU:HD23	1.97	0.47
1:G:542:ASP:OD2	1:G:544:ARG:NH2	2.48	0.47
1:G:596:THR:O	1:G:597:GLN:C	2.52	0.47
1:H:435:LEU:HD11	1:I:626:LEU:HD23	1.95	0.47
1:H:539:GLY:HA2	1:H:577:LEU:O	2.14	0.47
1:H:551:LYS:O	1:H:553:PRO:CD	2.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:214:ILE:CD1	1:I:220:VAL:CG1	2.48	0.47
1:J:265:LEU:HD23	1:J:302:ILE:HG12	1.96	0.47
1:J:283:VAL:HG22	1:J:302:ILE:HG21	1.97	0.47
1:J:322:ILE:CD1	1:J:498:LEU:CD2	2.92	0.47
1:K:298:ALA:HB3	1:K:303:MET:HE2	1.96	0.47
1:K:321:LEU:HD21	1:K:323:GLU:OE2	2.15	0.47
1:K:366:LEU:HD23	1:K:400:LEU:HD22	1.95	0.47
1:K:551:LYS:O	1:K:553:PRO:CD	2.63	0.47
1:K:596:THR:O	1:K:597:GLN:C	2.52	0.47
1:L:542:ASP:OD2	1:L:544:ARG:NH2	2.48	0.47
1:L:551:LYS:O	1:L:553:PRO:CD	2.63	0.47
1:M:224:LEU:HD12	1:M:227:LEU:HB2	1.96	0.47
1:M:285:ILE:HD11	1:M:306:LEU:HD22	1.96	0.47
1:M:321:LEU:N	1:M:584:THR:O	2.42	0.47
1:M:542:ASP:OD2	1:M:544:ARG:NH2	2.47	0.47
1:M:596:THR:O	1:M:597:GLN:C	2.52	0.47
1:N:298:ALA:HB3	1:N:303:MET:HE2	1.96	0.47
1:N:313:LEU:HD22	1:O:288:HIS:CD2	2.50	0.47
1:N:596:THR:O	1:N:597:GLN:C	2.52	0.47
1:N:643:ILE:HD12	1:N:643:ILE:HA	1.77	0.47
1:O:285:ILE:HD11	1:O:306:LEU:HD22	1.97	0.47
1:O:326:ILE:CG1	1:O:502:GLN:HE21	2.27	0.47
1:O:542:ASP:OD2	1:O:544:ARG:NH2	2.48	0.47
1:A:615:LEU:HD13	1:N:572:VAL:CG2	2.44	0.47
1:B:337:LEU:HB3	1:D:617:LEU:CD1	2.45	0.47
1:B:500:ILE:HD13	1:B:537:LEU:HD11	1.97	0.47
1:B:515:ASP:CG	1:B:516:VAL:N	2.66	0.47
1:C:326:ILE:CD1	1:C:502:GLN:NE2	2.67	0.47
1:D:315:ILE:HD11	1:E:291:THR:CG2	2.45	0.47
1:D:407:VAL:HG11	1:D:411:ALA:HB2	1.96	0.47
1:D:643:ILE:HD12	1:D:643:ILE:HA	1.78	0.47
1:F:168:VAL:HG23	1:F:168:VAL:O	2.14	0.47
1:F:283:VAL:HG22	1:F:302:ILE:HG21	1.97	0.47
1:F:572:VAL:CG2	1:H:615:LEU:HD13	2.44	0.47
1:G:228:ILE:O	1:G:232:ASP:OD1	2.33	0.47
1:I:539:GLY:HA2	1:I:577:LEU:O	2.14	0.47
1:J:535:LEU:HD12	1:J:536:VAL:H	1.80	0.47
1:K:168:VAL:HG23	1:K:168:VAL:O	2.14	0.47
1:K:265:LEU:HD23	1:K:302:ILE:HG12	1.96	0.47
1:L:169:VAL:CG1	1:L:228:ILE:CG2	2.85	0.47
1:M:169:VAL:CG1	1:M:228:ILE:HG23	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:333:ASP:HB3	1:O:618:MET:HE1	1.97	0.47
1:M:523:LEU:HD21	1:M:538:GLY:CA	2.45	0.47
1:M:539:GLY:HA2	1:M:577:LEU:O	2.14	0.47
1:N:105:ALA:O	1:N:159:ASP:HB2	2.14	0.47
1:N:224:LEU:HD12	1:N:227:LEU:HB2	1.96	0.47
1:N:500:ILE:HD13	1:N:537:LEU:HD11	1.97	0.47
1:N:539:GLY:HA2	1:N:577:LEU:O	2.14	0.47
1:O:551:LYS:O	1:O:553:PRO:CD	2.63	0.47
1:A:407:VAL:HG11	1:A:411:ALA:HB2	1.96	0.47
1:C:168:VAL:HG23	1:C:168:VAL:O	2.14	0.47
1:C:285:ILE:HD11	1:C:306:LEU:HD22	1.97	0.47
1:C:515:ASP:CG	1:C:516:VAL:N	2.66	0.47
1:D:224:LEU:HD12	1:D:227:LEU:HB2	1.96	0.47
1:D:321:LEU:HD21	1:D:323:GLU:OE2	2.15	0.47
1:E:539:GLY:HA2	1:E:577:LEU:O	2.14	0.47
1:I:106:VAL:HG22	1:I:159:ASP:CA	2.45	0.47
1:J:121:LEU:HD21	1:J:147:VAL:O	2.14	0.47
1:M:500:ILE:HD13	1:M:537:LEU:HD11	1.97	0.47
1:N:322:ILE:CD1	1:N:498:LEU:CD2	2.92	0.47
1:N:523:LEU:HD21	1:N:538:GLY:CA	2.45	0.47
1:O:321:LEU:HD21	1:O:323:GLU:OE2	2.15	0.47
1:O:322:ILE:CD1	1:O:498:LEU:CD2	2.92	0.47
1:O:500:ILE:HD13	1:O:537:LEU:HD11	1.97	0.47
1:A:315:ILE:HD11	1:B:291:THR:CG2	2.45	0.47
1:B:121:LEU:HD21	1:B:147:VAL:O	2.14	0.47
1:B:254:LEU:HD23	1:B:294:LEU:CD2	2.44	0.47
1:B:407:VAL:HG11	1:B:411:ALA:HB2	1.96	0.47
1:D:351:GLN:NE2	1:D:358:PRO:CB	2.77	0.47
1:E:167:GLU:HG2	1:E:214:ILE:CB	2.41	0.47
1:E:315:ILE:HD11	1:F:291:THR:CG2	2.45	0.47
1:F:167:GLU:HG2	1:F:214:ILE:CB	2.41	0.47
1:F:321:LEU:HD21	1:F:323:GLU:OE2	2.15	0.47
1:G:121:LEU:HD21	1:G:147:VAL:O	2.15	0.47
1:G:218:PRO:HA	1:G:221:ARG:CB	2.45	0.47
1:H:106:VAL:HG22	1:H:159:ASP:CA	2.45	0.47
1:H:596:THR:O	1:H:597:GLN:C	2.52	0.47
1:I:168:VAL:HG23	1:I:168:VAL:O	2.14	0.47
1:I:337:LEU:HB3	1:K:617:LEU:CD1	2.45	0.47
1:I:542:ASP:OD2	1:I:544:ARG:NH2	2.47	0.47
1:J:168:VAL:HG23	1:J:168:VAL:O	2.14	0.47
1:J:542:ASP:OD2	1:J:544:ARG:NH2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:169:VAL:CG1	1:L:228:ILE:HG23	2.45	0.47
1:L:500:ILE:HD13	1:L:537:LEU:HD11	1.97	0.47
1:N:283:VAL:HG22	1:N:302:ILE:HG21	1.97	0.47
1:O:106:VAL:HG22	1:O:159:ASP:CA	2.45	0.47
1:O:254:LEU:HD23	1:O:294:LEU:CD2	2.44	0.47
1:O:539:GLY:HA2	1:O:577:LEU:O	2.15	0.47
1:A:106:VAL:HG12	1:A:108:ASN:OD1	2.15	0.46
1:A:313:LEU:HD22	1:B:288:HIS:CD2	2.50	0.46
1:A:351:GLN:NE2	1:A:358:PRO:CB	2.77	0.46
1:B:313:LEU:HD22	1:C:288:HIS:CD2	2.50	0.46
1:B:315:ILE:HD11	1:C:291:THR:CG2	2.45	0.46
1:B:438:PRO:CB	1:B:450:PHE:CE2	2.98	0.46
1:E:500:ILE:HD13	1:E:537:LEU:HD11	1.97	0.46
1:F:596:THR:O	1:F:597:GLN:C	2.53	0.46
1:G:138:ILE:CG2	1:G:139:ILE:N	2.71	0.46
1:G:283:VAL:HG22	1:G:302:ILE:HG21	1.97	0.46
1:H:321:LEU:HD21	1:H:323:GLU:OE2	2.15	0.46
1:J:228:ILE:O	1:J:232:ASP:OD1	2.32	0.46
1:J:321:LEU:HD21	1:J:323:GLU:OE2	2.15	0.46
1:K:452:VAL:O	1:K:452:VAL:HG12	2.15	0.46
1:L:106:VAL:HG22	1:L:159:ASP:CA	2.45	0.46
1:L:204:VAL:HB	1:L:213:LEU:HB2	1.96	0.46
1:L:246:LEU:HD22	1:L:251:ALA:CB	2.40	0.46
1:L:250:LYS:HE2	1:L:252:GLU:HB3	1.98	0.46
1:M:121:LEU:HD21	1:M:147:VAL:O	2.15	0.46
1:M:228:ILE:O	1:M:232:ASP:OD1	2.32	0.46
1:O:228:ILE:O	1:O:232:ASP:OD1	2.32	0.46
1:A:106:VAL:HG22	1:A:159:ASP:CA	2.45	0.46
1:A:248:TYR:CD1	1:O:491:ASN:HB3	2.50	0.46
1:C:108:ASN:OD1	1:C:109:VAL:N	2.44	0.46
1:E:283:VAL:HG22	1:E:302:ILE:HG21	1.97	0.46
1:E:438:PRO:HB2	1:E:450:PHE:CE2	2.51	0.46
1:F:313:LEU:HD22	1:G:288:HIS:CD2	2.50	0.46
1:F:438:PRO:HB2	1:F:450:PHE:CE2	2.51	0.46
1:F:535:LEU:HD12	1:F:536:VAL:H	1.80	0.46
1:G:551:LYS:O	1:G:553:PRO:CD	2.63	0.46
1:H:218:PRO:HA	1:H:221:ARG:CB	2.45	0.46
1:H:228:ILE:O	1:H:232:ASP:OD1	2.32	0.46
1:H:283:VAL:HG22	1:H:302:ILE:HG21	1.97	0.46
1:H:513:ALA:HB1	1:I:457:PRO:HD2	1.97	0.46
1:H:523:LEU:HD21	1:H:538:GLY:CA	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:121:LEU:HD21	1:I:147:VAL:O	2.14	0.46
1:K:121:LEU:HD21	1:K:147:VAL:O	2.14	0.46
1:K:542:ASP:OD2	1:K:544:ARG:NH2	2.48	0.46
1:L:157:ARG:O	1:M:140:LEU:HD13	2.02	0.46
1:L:321:LEU:HD21	1:L:323:GLU:OE2	2.15	0.46
1:L:322:ILE:CD1	1:L:498:LEU:CD2	2.92	0.46
1:L:596:THR:O	1:L:597:GLN:C	2.52	0.46
1:M:106:VAL:HG22	1:M:159:ASP:CA	2.45	0.46
1:N:106:VAL:HG22	1:N:159:ASP:CA	2.45	0.46
1:N:169:VAL:CG1	1:N:228:ILE:HG23	2.45	0.46
1:O:169:VAL:CG1	1:O:228:ILE:HG23	2.45	0.46
1:O:596:THR:O	1:O:597:GLN:C	2.52	0.46
1:A:141:ILE:HD11	1:A:155:ILE:CD1	2.46	0.46
1:A:204:VAL:HB	1:A:213:LEU:HB2	1.96	0.46
1:A:291:THR:CG2	1:O:315:ILE:HD11	2.45	0.46
1:A:438:PRO:CB	1:A:450:PHE:CE2	2.99	0.46
1:B:206:ASP:OD2	1:B:208:ARG:CB	2.59	0.46
1:B:442:VAL:HG11	1:B:488:PRO:CG	2.21	0.46
1:C:106:VAL:HG22	1:C:159:ASP:CA	2.45	0.46
1:C:438:PRO:HB2	1:C:450:PHE:CE2	2.50	0.46
1:D:480:VAL:O	1:D:480:VAL:CG2	2.61	0.46
1:D:551:LYS:O	1:D:553:PRO:CD	2.63	0.46
1:E:261:VAL:CG1	1:F:241:ASN:HD22	2.28	0.46
1:E:313:LEU:HD22	1:F:288:HIS:CD2	2.50	0.46
1:E:407:VAL:HG11	1:E:411:ALA:HB2	1.96	0.46
1:G:106:VAL:HG22	1:G:159:ASP:CA	2.45	0.46
1:G:523:LEU:HD21	1:G:538:GLY:CA	2.43	0.46
1:H:219:LYS:HZ1	1:I:105:ALA:HB2	1.78	0.46
1:H:285:ILE:HD11	1:H:306:LEU:HD22	1.97	0.46
1:I:228:ILE:O	1:I:232:ASP:OD1	2.32	0.46
1:L:223:ARG:NE	1:L:226:ARG:HH22	2.08	0.46
1:L:261:VAL:O	1:L:265:LEU:HB2	2.16	0.46
1:L:337:LEU:HB3	1:N:617:LEU:CD1	2.44	0.46
1:L:438:PRO:HB2	1:L:450:PHE:CE2	2.51	0.46
1:L:491:ASN:HB3	1:M:248:TYR:CD1	2.51	0.46
1:M:246:LEU:HD22	1:M:251:ALA:CB	2.40	0.46
1:M:313:LEU:HD22	1:N:288:HIS:CD2	2.50	0.46
1:N:169:VAL:HG21	1:N:228:ILE:CD1	2.34	0.46
1:N:204:VAL:HB	1:N:213:LEU:HB2	1.96	0.46
1:A:169:VAL:CG1	1:A:228:ILE:HG23	2.45	0.46
1:A:572:VAL:HG21	1:C:615:LEU:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:141:ILE:HD11	1:B:155:ILE:CD1	2.45	0.46
1:C:254:LEU:HD23	1:C:294:LEU:CD2	2.44	0.46
1:D:167:GLU:HG2	1:D:214:ILE:CB	2.41	0.46
1:D:285:ILE:HD11	1:D:306:LEU:HD22	1.97	0.46
1:D:313:LEU:HD22	1:E:288:HIS:CD2	2.51	0.46
1:E:244:VAL:HG23	1:E:244:VAL:O	2.16	0.46
1:E:261:VAL:O	1:E:265:LEU:HB2	2.16	0.46
1:E:523:LEU:HD21	1:E:538:GLY:CA	2.45	0.46
1:F:261:VAL:O	1:F:265:LEU:HB2	2.16	0.46
1:G:261:VAL:O	1:G:265:LEU:HB2	2.15	0.46
1:G:407:VAL:HG11	1:G:411:ALA:HB2	1.96	0.46
1:H:351:GLN:NE2	1:H:358:PRO:CB	2.77	0.46
1:I:244:VAL:O	1:I:244:VAL:HG23	2.16	0.46
1:I:285:ILE:HD11	1:I:306:LEU:HD22	1.96	0.46
1:I:438:PRO:CB	1:I:450:PHE:CE2	2.99	0.46
1:J:106:VAL:HG22	1:J:159:ASP:CA	2.45	0.46
1:J:407:VAL:HG11	1:J:411:ALA:HB2	1.96	0.46
1:K:204:VAL:HB	1:K:213:LEU:HB2	1.96	0.46
1:N:254:LEU:HD23	1:N:294:LEU:CD2	2.44	0.46
1:N:544:ARG:NH1	1:O:434:ILE:HD13	2.30	0.46
1:O:204:VAL:HB	1:O:213:LEU:HB2	1.96	0.46
1:O:283:VAL:HG22	1:O:302:ILE:HG21	1.97	0.46
1:B:204:VAL:HG12	1:B:205:ALA:H	1.70	0.46
1:C:321:LEU:HD21	1:C:323:GLU:OE2	2.15	0.46
1:D:254:LEU:HD23	1:D:294:LEU:CD2	2.44	0.46
1:D:494:ASP:O	1:D:531:ASP:HB2	2.16	0.46
1:F:154:ILE:O	1:F:157:ARG:HB2	2.16	0.46
1:G:168:VAL:HG23	1:G:168:VAL:O	2.14	0.46
1:G:244:VAL:HG23	1:G:244:VAL:O	2.16	0.46
1:G:494:ASP:O	1:G:531:ASP:HB2	2.16	0.46
1:H:121:LEU:HD21	1:H:147:VAL:O	2.14	0.46
1:H:168:VAL:HG23	1:H:168:VAL:O	2.14	0.46
1:H:204:VAL:HB	1:H:213:LEU:HB2	1.97	0.46
1:I:544:ARG:NH1	1:J:434:ILE:HD13	2.31	0.46
1:J:212:ILE:HG23	1:J:212:ILE:O	2.16	0.46
1:J:643:ILE:HD12	1:J:643:ILE:HA	1.78	0.46
1:K:261:VAL:O	1:K:265:LEU:HB2	2.16	0.46
1:L:157:ARG:O	1:M:140:LEU:HD11	1.98	0.46
1:L:228:ILE:O	1:L:232:ASP:OD1	2.32	0.46
1:L:238:LYS:CG	1:L:240:ASN:HB2	2.46	0.46
1:L:452:VAL:O	1:L:452:VAL:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:204:VAL:HB	1:M:213:LEU:HB2	1.97	0.46
1:M:261:VAL:O	1:M:265:LEU:HB2	2.16	0.46
1:M:438:PRO:HB2	1:M:450:PHE:CE2	2.51	0.46
1:M:523:LEU:HD13	1:N:450:PHE:CD1	2.46	0.46
1:N:228:ILE:O	1:N:232:ASP:OD1	2.33	0.46
1:O:286:ALA:O	1:O:295:VAL:N	2.40	0.46
1:O:438:PRO:CB	1:O:450:PHE:CE2	2.99	0.46
1:A:321:LEU:HD21	1:A:323:GLU:OE2	2.15	0.46
1:A:583:PRO:O	1:A:583:PRO:HD2	2.16	0.46
1:A:596:THR:O	1:A:597:GLN:C	2.52	0.46
1:B:106:VAL:HG12	1:B:108:ASN:OD1	2.16	0.46
1:B:204:VAL:HB	1:B:213:LEU:HB2	1.96	0.46
1:B:218:PRO:HA	1:B:221:ARG:CB	2.45	0.46
1:B:351:GLN:NE2	1:B:358:PRO:CB	2.77	0.46
1:B:438:PRO:HB2	1:B:450:PHE:CE2	2.51	0.46
1:C:106:VAL:HG12	1:C:108:ASN:OD1	2.16	0.46
1:C:212:ILE:HG23	1:C:212:ILE:O	2.16	0.46
1:E:108:ASN:ND2	1:F:134:ASP:CG	2.69	0.46
1:E:452:VAL:O	1:E:452:VAL:HG12	2.15	0.46
1:F:244:VAL:O	1:F:244:VAL:HG23	2.16	0.46
1:F:285:ILE:HD11	1:F:306:LEU:HD22	1.97	0.46
1:F:298:ALA:HB3	1:F:303:MET:CE	2.46	0.46
1:F:500:ILE:HD13	1:F:537:LEU:HD11	1.97	0.46
1:G:535:LEU:HD12	1:G:536:VAL:H	1.81	0.46
1:H:169:VAL:HG21	1:H:228:ILE:CD1	2.35	0.46
1:I:315:ILE:HD11	1:J:291:THR:CG2	2.45	0.46
1:I:321:LEU:HD21	1:I:323:GLU:OE2	2.15	0.46
1:J:204:VAL:HB	1:J:213:LEU:HB2	1.96	0.46
1:J:438:PRO:CB	1:J:450:PHE:CE2	2.99	0.46
1:J:438:PRO:HB2	1:J:450:PHE:CE2	2.51	0.46
1:J:523:LEU:HD21	1:J:538:GLY:CA	2.44	0.46
1:K:106:VAL:HG22	1:K:159:ASP:CA	2.45	0.46
1:K:212:ILE:HG23	1:K:212:ILE:O	2.16	0.46
1:K:228:ILE:O	1:K:232:ASP:OD1	2.32	0.46
1:K:438:PRO:HB2	1:K:450:PHE:CE2	2.51	0.46
1:L:313:LEU:HD22	1:M:288:HIS:CD2	2.50	0.46
1:N:154:ILE:O	1:N:157:ARG:HB2	2.16	0.46
1:A:218:PRO:HA	1:A:221:ARG:CB	2.45	0.46
1:A:288:HIS:CD2	1:O:313:LEU:HD22	2.51	0.46
1:B:154:ILE:O	1:B:157:ARG:HB2	2.16	0.46
1:B:544:ARG:NH1	1:C:434:ILE:HD13	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:141:ILE:HD11	1:C:155:ILE:CD1	2.45	0.46
1:C:167:GLU:HG2	1:C:214:ILE:CB	2.41	0.46
1:C:204:VAL:HB	1:C:213:LEU:HB2	1.96	0.46
1:C:494:ASP:O	1:C:531:ASP:HB2	2.16	0.46
1:D:233:VAL:N	1:E:208:ARG:NH2	2.64	0.46
1:D:438:PRO:HB2	1:D:450:PHE:CE2	2.51	0.46
1:D:442:VAL:HG22	1:D:443:MET:N	2.31	0.46
1:E:154:ILE:O	1:E:157:ARG:HB2	2.16	0.46
1:E:218:PRO:HA	1:E:221:ARG:CB	2.45	0.46
1:G:261:VAL:CG1	1:H:241:ASN:HD22	2.29	0.46
1:G:285:ILE:HD11	1:G:306:LEU:HD22	1.97	0.46
1:H:106:VAL:HG12	1:H:108:ASN:OD1	2.16	0.46
1:H:244:VAL:HG23	1:H:244:VAL:O	2.16	0.46
1:H:250:LYS:HE2	1:H:252:GLU:HB3	1.98	0.46
1:H:491:ASN:HB3	1:I:248:TYR:CD1	2.51	0.46
1:H:494:ASP:O	1:H:531:ASP:HB2	2.16	0.46
1:I:167:GLU:CG	1:I:214:ILE:CG2	2.67	0.46
1:I:238:LYS:CG	1:I:240:ASN:HB2	2.46	0.46
1:I:351:GLN:NE2	1:I:358:PRO:CB	2.77	0.46
1:I:500:ILE:CD1	1:I:581:ILE:HD12	2.46	0.46
1:J:169:VAL:CG1	1:J:228:ILE:HG23	2.45	0.46
1:J:315:ILE:HD11	1:K:291:THR:CG2	2.45	0.46
1:J:500:ILE:CD1	1:J:581:ILE:HD12	2.46	0.46
1:K:322:ILE:CD1	1:K:498:LEU:CD2	2.91	0.46
1:K:326:ILE:CD1	1:K:502:GLN:NE2	2.67	0.46
1:K:494:ASP:O	1:K:531:ASP:HB2	2.16	0.46
1:L:265:LEU:HD23	1:L:302:ILE:HG12	1.96	0.46
1:M:108:ASN:ND2	1:N:134:ASP:CG	2.69	0.46
1:M:491:ASN:HB3	1:N:248:TYR:CD1	2.51	0.46
1:M:494:ASP:O	1:M:531:ASP:HB2	2.16	0.46
1:N:491:ASN:HB3	1:O:248:TYR:CD1	2.51	0.46
1:A:283:VAL:HG22	1:A:302:ILE:HG21	1.97	0.46
1:A:491:ASN:HB3	1:B:248:TYR:CD1	2.51	0.46
1:B:169:VAL:CG1	1:B:228:ILE:HG23	2.45	0.46
1:B:298:ALA:HB3	1:B:303:MET:CE	2.46	0.46
1:C:244:VAL:HG23	1:C:244:VAL:O	2.16	0.46
1:C:313:LEU:HD22	1:D:288:HIS:CD2	2.51	0.46
1:E:169:VAL:CG1	1:E:228:ILE:HG23	2.45	0.46
1:E:491:ASN:HB3	1:F:248:TYR:CD1	2.51	0.46
1:F:167:GLU:CG	1:F:214:ILE:CG2	2.67	0.46
1:F:261:VAL:CG1	1:G:241:ASN:HD22	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:535:LEU:HD13	1:G:592:ALA:HB1	1.98	0.46
1:G:250:LYS:HE2	1:G:252:GLU:HB3	1.98	0.46
1:G:491:ASN:HB3	1:H:248:TYR:CD1	2.51	0.46
1:H:322:ILE:CD1	1:H:498:LEU:CD2	2.91	0.46
1:H:407:VAL:HG11	1:H:411:ALA:HB2	1.96	0.46
1:I:169:VAL:CG1	1:I:228:ILE:HG23	2.45	0.46
1:I:535:LEU:HD13	1:J:592:ALA:HB1	1.98	0.46
1:J:535:LEU:HD13	1:K:592:ALA:HB1	1.98	0.46
1:K:169:VAL:CG1	1:K:228:ILE:HG23	2.45	0.46
1:K:169:VAL:CG1	1:K:228:ILE:CG2	2.85	0.46
1:K:644:ASP:O	1:K:648:GLN:HG3	2.16	0.46
1:L:535:LEU:HD13	1:M:592:ALA:HB1	1.98	0.46
1:M:218:PRO:HA	1:M:221:ARG:CB	2.45	0.46
1:M:322:ILE:CD1	1:M:498:LEU:CD2	2.91	0.46
1:M:438:PRO:CB	1:M:450:PHE:CE2	2.99	0.46
1:M:452:VAL:O	1:M:452:VAL:HG12	2.16	0.46
1:M:508:LEU:HD12	1:M:519:ALA:HB2	1.98	0.46
1:M:608:LEU:CD2	1:M:625:VAL:CG1	2.94	0.46
1:N:106:VAL:HG12	1:N:108:ASN:OD1	2.16	0.46
1:N:438:PRO:CB	1:N:450:PHE:CE2	2.99	0.46
1:N:438:PRO:HB2	1:N:450:PHE:CE2	2.51	0.46
1:O:494:ASP:O	1:O:531:ASP:HB2	2.16	0.46
1:B:209:THR:HG21	1:B:211:SER:HB2	1.98	0.46
1:D:154:ILE:O	1:D:157:ARG:HB2	2.16	0.46
1:D:212:ILE:O	1:D:212:ILE:HG23	2.16	0.46
1:D:452:VAL:O	1:D:452:VAL:HG12	2.16	0.46
1:E:258:LEU:CB	1:E:285:ILE:CD1	2.93	0.46
1:E:322:ILE:CD1	1:E:498:LEU:CD2	2.92	0.46
1:E:596:THR:O	1:E:597:GLN:C	2.52	0.46
1:F:315:ILE:HD11	1:G:291:THR:CG2	2.46	0.46
1:F:407:VAL:HG11	1:F:411:ALA:HB2	1.97	0.46
1:F:442:VAL:HG22	1:F:443:MET:N	2.31	0.46
1:F:523:LEU:HD21	1:F:538:GLY:CA	2.44	0.46
1:G:154:ILE:O	1:G:157:ARG:HB2	2.16	0.46
1:G:321:LEU:HD21	1:G:323:GLU:OE2	2.15	0.46
1:G:500:ILE:CD1	1:G:581:ILE:HD12	2.46	0.46
1:G:544:ARG:NH1	1:H:434:ILE:HD13	2.31	0.46
1:H:202:LYS:O	1:H:203:LEU:HD12	2.16	0.46
1:H:315:ILE:HD11	1:I:291:THR:CG2	2.46	0.46
1:H:500:ILE:CD1	1:H:581:ILE:HD12	2.46	0.46
1:I:298:ALA:HB3	1:I:303:MET:CE	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:494:ASP:O	1:I:531:ASP:HB2	2.16	0.46
1:I:523:LEU:HD21	1:I:538:GLY:CA	2.44	0.46
1:I:572:VAL:HG21	1:K:615:LEU:HD13	1.98	0.46
1:J:261:VAL:O	1:J:265:LEU:HB2	2.16	0.46
1:J:351:GLN:NE2	1:J:358:PRO:CB	2.77	0.46
1:J:508:LEU:HD12	1:J:519:ALA:HB2	1.98	0.46
1:J:523:LEU:HD13	1:K:450:PHE:CD1	2.45	0.46
1:J:644:ASP:O	1:J:648:GLN:HG3	2.16	0.46
1:K:326:ILE:HD13	1:K:504:VAL:CG2	2.46	0.46
1:L:315:ILE:HD11	1:M:291:THR:CG2	2.45	0.46
1:M:154:ILE:O	1:M:157:ARG:HB2	2.16	0.46
1:M:254:LEU:HD23	1:M:294:LEU:CD2	2.44	0.46
1:N:238:LYS:CG	1:N:240:ASN:HB2	2.46	0.46
1:N:261:VAL:O	1:N:265:LEU:HB2	2.15	0.46
1:O:202:LYS:O	1:O:203:LEU:HD12	2.16	0.46
1:O:583:PRO:HD2	1:O:583:PRO:O	2.16	0.46
1:A:261:VAL:CG1	1:B:241:ASN:HD22	2.28	0.46
1:A:438:PRO:HB2	1:A:450:PHE:CE2	2.51	0.46
1:B:212:ILE:HG23	1:B:212:ILE:O	2.16	0.46
1:B:494:ASP:O	1:B:531:ASP:HB2	2.16	0.46
1:C:438:PRO:CB	1:C:450:PHE:CE2	2.99	0.46
1:C:544:ARG:NH1	1:D:434:ILE:HD13	2.31	0.46
1:D:108:ASN:ND2	1:E:134:ASP:CG	2.70	0.46
1:D:218:PRO:HA	1:D:221:ARG:CB	2.45	0.46
1:E:212:ILE:HG23	1:E:212:ILE:O	2.16	0.46
1:E:285:ILE:HD11	1:E:306:LEU:HD22	1.97	0.46
1:F:141:ILE:HD11	1:F:155:ILE:CD1	2.45	0.46
1:F:258:LEU:CB	1:F:285:ILE:CD1	2.93	0.46
1:G:233:VAL:N	1:H:208:ARG:NH2	2.64	0.46
1:G:238:LYS:CG	1:G:240:ASN:HB2	2.46	0.46
1:H:154:ILE:O	1:H:157:ARG:HB2	2.16	0.46
1:H:321:LEU:HD21	1:H:599:LYS:NZ	2.31	0.46
1:H:442:VAL:HG22	1:H:443:MET:N	2.31	0.46
1:I:154:ILE:O	1:I:157:ARG:HB2	2.16	0.46
1:I:212:ILE:O	1:I:212:ILE:HG23	2.16	0.46
1:I:326:ILE:HD13	1:I:504:VAL:CG2	2.46	0.46
1:I:452:VAL:O	1:I:452:VAL:HG12	2.15	0.46
1:I:491:ASN:HB3	1:J:248:TYR:CD1	2.51	0.46
1:I:508:LEU:HD12	1:I:519:ALA:HB2	1.98	0.46
1:J:238:LYS:CG	1:J:240:ASN:HB2	2.46	0.46
1:J:313:LEU:HD22	1:K:288:HIS:CD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:326:ILE:HD13	1:J:504:VAL:CG2	2.46	0.46
1:J:544:ARG:NH1	1:K:434:ILE:HD13	2.31	0.46
1:K:246:LEU:HD22	1:K:251:ALA:CB	2.40	0.46
1:K:438:PRO:CB	1:K:450:PHE:CE2	2.99	0.46
1:K:491:ASN:HB3	1:L:248:TYR:CD1	2.51	0.46
1:K:535:LEU:HD12	1:K:536:VAL:H	1.81	0.46
1:L:121:LEU:HD21	1:L:147:VAL:O	2.15	0.46
1:M:326:ILE:HD13	1:M:504:VAL:CG2	2.46	0.46
1:M:523:LEU:CD1	1:N:440:ILE:HD11	2.36	0.46
1:M:535:LEU:HD13	1:N:592:ALA:HB1	1.98	0.46
1:N:321:LEU:HD21	1:N:323:GLU:OE2	2.16	0.46
1:O:106:VAL:HG12	1:O:108:ASN:OD1	2.16	0.46
1:O:346:THR:O	1:O:346:THR:HG22	2.15	0.46
1:A:298:ALA:HB3	1:A:303:MET:CE	2.46	0.45
1:A:346:THR:O	1:A:346:THR:HG22	2.15	0.45
1:A:442:VAL:HG22	1:A:443:MET:N	2.31	0.45
1:A:615:LEU:HD13	1:N:572:VAL:HG21	1.98	0.45
1:B:596:THR:HG22	1:B:597:GLN:H	1.81	0.45
1:C:154:ILE:O	1:C:157:ARG:HB2	2.16	0.45
1:C:298:ALA:HB3	1:C:303:MET:CE	2.46	0.45
1:C:535:LEU:HD12	1:C:536:VAL:H	1.81	0.45
1:D:244:VAL:O	1:D:244:VAL:HG23	2.16	0.45
1:D:261:VAL:O	1:D:265:LEU:HB2	2.16	0.45
1:D:265:LEU:HD22	1:D:302:ILE:CG1	2.46	0.45
1:D:491:ASN:HB3	1:E:248:TYR:CD1	2.51	0.45
1:E:438:PRO:CB	1:E:450:PHE:CE2	2.99	0.45
1:F:106:VAL:HG22	1:F:159:ASP:CA	2.45	0.45
1:F:169:VAL:CG1	1:F:228:ILE:HG23	2.45	0.45
1:F:212:ILE:HG23	1:F:212:ILE:O	2.16	0.45
1:F:438:PRO:CB	1:F:450:PHE:CE2	2.99	0.45
1:F:491:ASN:HB3	1:G:248:TYR:CD1	2.51	0.45
1:F:500:ILE:CD1	1:F:581:ILE:HD12	2.46	0.45
1:F:544:ARG:NH1	1:G:434:ILE:HD13	2.31	0.45
1:G:315:ILE:HD11	1:H:291:THR:CG2	2.46	0.45
1:H:209:THR:HG21	1:H:211:SER:HB2	1.98	0.45
1:H:261:VAL:O	1:H:265:LEU:HB2	2.16	0.45
1:H:438:PRO:CB	1:H:450:PHE:CE2	2.99	0.45
1:H:508:LEU:HD12	1:H:519:ALA:HB2	1.98	0.45
1:H:535:LEU:HD12	1:H:536:VAL:H	1.81	0.45
1:I:321:LEU:N	1:I:584:THR:O	2.42	0.45
1:I:442:VAL:HG22	1:I:443:MET:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:535:LEU:HD12	1:I:536:VAL:H	1.80	0.45
1:J:244:VAL:HG23	1:J:244:VAL:O	2.16	0.45
1:J:285:ILE:HD11	1:J:306:LEU:HD22	1.97	0.45
1:J:452:VAL:O	1:J:452:VAL:HG12	2.16	0.45
1:K:265:LEU:HD22	1:K:302:ILE:CG1	2.47	0.45
1:K:442:VAL:HG11	1:K:488:PRO:CG	2.21	0.45
1:L:513:ALA:HB1	1:M:457:PRO:HD2	1.99	0.45
1:M:321:LEU:HD21	1:M:323:GLU:OE2	2.15	0.45
1:M:544:ARG:NH1	1:N:434:ILE:HD13	2.31	0.45
1:N:321:LEU:N	1:N:584:THR:O	2.42	0.45
1:N:644:ASP:O	1:N:648:GLN:HG3	2.16	0.45
1:O:298:ALA:HB3	1:O:303:MET:HE2	1.98	0.45
1:A:202:LYS:O	1:A:203:LEU:HD12	2.16	0.45
1:A:457:PRO:HD2	1:O:513:ALA:HB1	1.98	0.45
1:A:596:THR:HG22	1:A:597:GLN:H	1.80	0.45
1:C:261:VAL:O	1:C:265:LEU:HB2	2.15	0.45
1:C:343:ASN:HB2	1:C:419:TRP:CE3	2.51	0.45
1:C:442:VAL:HG22	1:C:443:MET:N	2.31	0.45
1:C:643:ILE:HD12	1:C:643:ILE:HA	1.78	0.45
1:D:108:ASN:OD1	1:D:109:VAL:N	2.44	0.45
1:D:141:ILE:HD11	1:D:155:ILE:CD1	2.46	0.45
1:D:169:VAL:CG1	1:D:228:ILE:HG23	2.45	0.45
1:D:298:ALA:HB3	1:D:303:MET:CE	2.47	0.45
1:D:321:LEU:HD21	1:D:599:LYS:NZ	2.32	0.45
1:D:438:PRO:CB	1:D:450:PHE:CE2	2.99	0.45
1:D:535:LEU:HD13	1:E:592:ALA:HB1	1.98	0.45
1:D:544:ARG:NH1	1:E:434:ILE:HD13	2.31	0.45
1:E:298:ALA:HB3	1:E:303:MET:CE	2.46	0.45
1:E:535:LEU:HD13	1:F:592:ALA:HB1	1.98	0.45
1:E:544:ARG:NH1	1:F:434:ILE:HD13	2.31	0.45
1:F:209:THR:CG2	1:F:211:SER:HB2	2.47	0.45
1:F:608:LEU:CD2	1:F:625:VAL:CG1	2.94	0.45
1:G:141:ILE:HD11	1:G:155:ILE:CD1	2.46	0.45
1:G:202:LYS:O	1:G:203:LEU:HD12	2.16	0.45
1:G:258:LEU:CB	1:G:285:ILE:CD1	2.93	0.45
1:G:572:VAL:HG21	1:I:615:LEU:HD13	1.97	0.45
1:H:169:VAL:CG1	1:H:228:ILE:HG23	2.45	0.45
1:H:258:LEU:CB	1:H:285:ILE:CD1	2.93	0.45
1:H:298:ALA:HB3	1:H:303:MET:CE	2.46	0.45
1:H:321:LEU:N	1:H:584:THR:O	2.42	0.45
1:H:326:ILE:HD13	1:H:504:VAL:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:583:PRO:HD2	1:H:583:PRO:O	2.16	0.45
1:I:106:VAL:HG12	1:I:108:ASN:OD1	2.16	0.45
1:I:261:VAL:O	1:I:265:LEU:HB2	2.16	0.45
1:J:154:ILE:O	1:J:157:ARG:HB2	2.16	0.45
1:J:572:VAL:HG21	1:L:615:LEU:HD13	1.98	0.45
1:K:233:VAL:N	1:L:208:ARG:NH2	2.64	0.45
1:K:250:LYS:HE2	1:K:252:GLU:HB3	1.97	0.45
1:L:209:THR:CG2	1:L:211:SER:HB2	2.47	0.45
1:L:583:PRO:O	1:L:583:PRO:HD2	2.16	0.45
1:M:209:THR:CG2	1:M:211:SER:HB2	2.47	0.45
1:M:535:LEU:HD12	1:M:536:VAL:H	1.80	0.45
1:O:154:ILE:O	1:O:157:ARG:HB2	2.16	0.45
1:O:218:PRO:HA	1:O:221:ARG:CB	2.45	0.45
1:O:261:VAL:O	1:O:265:LEU:HB2	2.16	0.45
1:O:438:PRO:HB2	1:O:450:PHE:CE2	2.51	0.45
1:A:238:LYS:CG	1:A:240:ASN:HB2	2.46	0.45
1:A:261:VAL:O	1:A:265:LEU:HB2	2.16	0.45
1:A:343:ASN:HB2	1:A:419:TRP:CE3	2.52	0.45
1:A:450:PHE:CD1	1:O:523:LEU:HD13	2.45	0.45
1:A:535:LEU:HD12	1:A:536:VAL:H	1.81	0.45
1:B:321:LEU:HD21	1:B:323:GLU:OE2	2.15	0.45
1:B:442:VAL:HG22	1:B:443:MET:N	2.31	0.45
1:B:612:GLU:CG	1:C:642:PHE:HE2	2.28	0.45
1:C:417:GLY:O	1:C:418:ASP:CB	2.58	0.45
1:D:250:LYS:HE2	1:D:252:GLU:HB3	1.98	0.45
1:D:608:LEU:CD2	1:D:625:VAL:CG1	2.95	0.45
1:E:238:LYS:CG	1:E:240:ASN:HB2	2.46	0.45
1:E:596:THR:HG22	1:E:597:GLN:H	1.81	0.45
1:G:106:VAL:HG12	1:G:108:ASN:OD1	2.16	0.45
1:G:169:VAL:CG1	1:G:228:ILE:HG23	2.45	0.45
1:G:313:LEU:HD22	1:H:288:HIS:CD2	2.51	0.45
1:G:438:PRO:CB	1:G:450:PHE:CE2	2.99	0.45
1:H:209:THR:CG2	1:H:211:SER:HB2	2.47	0.45
1:H:265:LEU:HD22	1:H:302:ILE:CG1	2.47	0.45
1:I:209:THR:HG21	1:I:211:SER:HB2	1.98	0.45
1:I:407:VAL:HG11	1:I:411:ALA:HB2	1.97	0.45
1:I:438:PRO:HB2	1:I:450:PHE:CE2	2.51	0.45
1:I:583:PRO:O	1:I:583:PRO:HD2	2.16	0.45
1:J:480:VAL:O	1:J:480:VAL:CG2	2.61	0.45
1:K:214:ILE:CD1	1:K:220:VAL:CG1	2.49	0.45
1:K:315:ILE:HD11	1:L:291:THR:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:442:VAL:HG22	1:K:443:MET:N	2.31	0.45
1:K:572:VAL:HG21	1:M:615:LEU:HD13	1.98	0.45
1:L:212:ILE:O	1:L:212:ILE:HG23	2.16	0.45
1:L:285:ILE:HD11	1:L:306:LEU:HD22	1.97	0.45
1:L:326:ILE:HD13	1:L:504:VAL:CG2	2.46	0.45
1:L:508:LEU:HD12	1:L:519:ALA:HB2	1.98	0.45
1:L:535:LEU:HD12	1:L:536:VAL:H	1.81	0.45
1:M:265:LEU:HD23	1:M:302:ILE:HG12	1.96	0.45
1:M:315:ILE:HD11	1:N:291:THR:CG2	2.45	0.45
1:M:583:PRO:HD2	1:M:583:PRO:O	2.16	0.45
1:N:321:LEU:HD21	1:N:599:LYS:NZ	2.32	0.45
1:N:343:ASN:HB2	1:N:419:TRP:CE3	2.51	0.45
1:N:609:TYR:O	1:N:612:GLU:N	2.37	0.45
1:O:209:THR:HG21	1:O:211:SER:HB2	1.98	0.45
1:O:535:LEU:HD12	1:O:536:VAL:H	1.81	0.45
1:B:261:VAL:O	1:B:265:LEU:HB2	2.16	0.45
1:B:283:VAL:HG22	1:B:302:ILE:HG21	1.97	0.45
1:B:508:LEU:HD12	1:B:519:ALA:HB2	1.98	0.45
1:B:535:LEU:HD13	1:C:592:ALA:HB1	1.98	0.45
1:C:138:ILE:CG2	1:C:139:ILE:N	2.71	0.45
1:D:106:VAL:HG12	1:D:108:ASN:OD1	2.16	0.45
1:D:258:LEU:CB	1:D:285:ILE:CD1	2.93	0.45
1:D:261:VAL:CG1	1:E:241:ASN:HD22	2.28	0.45
1:E:141:ILE:HD11	1:E:155:ILE:CD1	2.45	0.45
1:F:326:ILE:HD13	1:F:504:VAL:CG2	2.46	0.45
1:G:298:ALA:HB3	1:G:303:MET:CE	2.46	0.45
1:G:438:PRO:HB2	1:G:450:PHE:CE2	2.51	0.45
1:G:442:VAL:HG22	1:G:443:MET:N	2.31	0.45
1:G:500:ILE:HD13	1:G:537:LEU:HD11	1.97	0.45
1:H:238:LYS:CG	1:H:240:ASN:HB2	2.46	0.45
1:I:225:LYS:HA	1:I:228:ILE:HB	1.99	0.45
1:J:246:LEU:HD22	1:J:251:ALA:CB	2.40	0.45
1:K:535:LEU:HD13	1:L:592:ALA:HB1	1.99	0.45
1:K:583:PRO:HD2	1:K:583:PRO:O	2.16	0.45
1:L:438:PRO:CB	1:L:450:PHE:CE2	2.99	0.45
1:L:572:VAL:HG21	1:N:615:LEU:HD13	1.97	0.45
1:N:209:THR:CG2	1:N:211:SER:HB2	2.47	0.45
1:N:351:GLN:NE2	1:N:358:PRO:CB	2.77	0.45
1:N:452:VAL:O	1:N:452:VAL:HG12	2.16	0.45
1:N:494:ASP:O	1:N:531:ASP:HB2	2.16	0.45
1:N:508:LEU:HD12	1:N:519:ALA:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:513:ALA:HB1	1:O:457:PRO:HD2	1.98	0.45
1:O:244:VAL:HG23	1:O:244:VAL:O	2.16	0.45
1:O:643:ILE:HD12	1:O:643:ILE:HA	1.77	0.45
1:A:434:ILE:HD13	1:O:544:ARG:NH1	2.31	0.45
1:A:440:ILE:HD11	1:O:523:LEU:CD1	2.37	0.45
1:A:508:LEU:HD12	1:A:519:ALA:HB2	1.98	0.45
1:B:491:ASN:HB3	1:C:248:TYR:CD1	2.51	0.45
1:C:169:VAL:CG1	1:C:228:ILE:HG23	2.45	0.45
1:C:315:ILE:HD11	1:D:291:THR:CG2	2.46	0.45
1:E:343:ASN:HB2	1:E:419:TRP:CE3	2.51	0.45
1:F:286:ALA:O	1:F:295:VAL:N	2.40	0.45
1:F:494:ASP:O	1:F:531:ASP:HB2	2.16	0.45
1:G:265:LEU:HD22	1:G:302:ILE:CG1	2.47	0.45
1:G:326:ILE:HD13	1:G:504:VAL:CG2	2.47	0.45
1:G:513:ALA:HB1	1:H:457:PRO:HD2	1.99	0.45
1:G:644:ASP:O	1:G:648:GLN:HG3	2.17	0.45
1:H:212:ILE:HG23	1:H:212:ILE:O	2.16	0.45
1:H:313:LEU:HD22	1:I:288:HIS:CD2	2.51	0.45
1:H:535:LEU:HD13	1:I:592:ALA:HB1	1.99	0.45
1:H:553:PRO:HB2	1:H:554:LEU:H	1.65	0.45
1:H:572:VAL:HG21	1:J:615:LEU:HD13	1.98	0.45
1:I:313:LEU:HD22	1:J:288:HIS:CD2	2.51	0.45
1:J:156:LYS:HA	1:J:159:ASP:HB3	1.99	0.45
1:K:238:LYS:CG	1:K:240:ASN:HB2	2.46	0.45
1:K:500:ILE:HD13	1:K:537:LEU:HD11	1.97	0.45
1:L:154:ILE:O	1:L:157:ARG:HB2	2.16	0.45
1:L:494:ASP:O	1:L:531:ASP:HB2	2.16	0.45
1:L:500:ILE:CD1	1:L:581:ILE:HD12	2.46	0.45
1:M:572:VAL:HG21	1:O:615:LEU:HD13	1.98	0.45
1:N:326:ILE:HD13	1:N:504:VAL:CG2	2.46	0.45
1:N:442:VAL:HG22	1:N:443:MET:N	2.31	0.45
1:N:583:PRO:O	1:N:583:PRO:HD2	2.17	0.45
1:O:238:LYS:CG	1:O:240:ASN:HB2	2.46	0.45
1:O:321:LEU:HD21	1:O:599:LYS:NZ	2.32	0.45
1:A:154:ILE:O	1:A:157:ARG:HB2	2.16	0.45
1:A:523:LEU:HD13	1:B:450:PHE:CD1	2.46	0.45
1:A:608:LEU:CD2	1:A:625:VAL:CG1	2.95	0.45
1:B:167:GLU:HG2	1:B:214:ILE:CB	2.41	0.45
1:B:169:VAL:HG21	1:B:228:ILE:CD1	2.35	0.45
1:B:343:ASN:HB2	1:B:419:TRP:CE3	2.51	0.45
1:C:452:VAL:O	1:C:452:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:500:ILE:CD1	1:C:581:ILE:HD12	2.46	0.45
1:D:212:ILE:CG2	1:D:228:ILE:HG12	2.47	0.45
1:D:326:ILE:HD13	1:D:504:VAL:CG2	2.46	0.45
1:E:212:ILE:CG2	1:E:228:ILE:HG12	2.46	0.45
1:E:250:LYS:HE2	1:E:252:GLU:HB3	1.99	0.45
1:E:254:LEU:HD23	1:E:294:LEU:CD2	2.44	0.45
1:E:265:LEU:HD22	1:E:302:ILE:CG1	2.47	0.45
1:E:500:ILE:CD1	1:E:581:ILE:HD12	2.46	0.45
1:G:209:THR:HG21	1:G:211:SER:HB2	1.98	0.45
1:G:321:LEU:HD21	1:G:599:LYS:NZ	2.32	0.45
1:G:326:ILE:CD1	1:G:502:GLN:NE2	2.67	0.45
1:H:141:ILE:HD11	1:H:155:ILE:CD1	2.46	0.45
1:I:156:LYS:HA	1:I:159:ASP:HB3	1.99	0.45
1:I:204:VAL:HB	1:I:213:LEU:HB2	1.97	0.45
1:I:258:LEU:CB	1:I:285:ILE:CD1	2.93	0.45
1:J:209:THR:HG21	1:J:211:SER:HB2	1.98	0.45
1:J:298:ALA:HB3	1:J:303:MET:CE	2.46	0.45
1:J:583:PRO:HD2	1:J:583:PRO:O	2.17	0.45
1:K:108:ASN:ND2	1:L:134:ASP:CG	2.70	0.45
1:K:154:ILE:O	1:K:157:ARG:HB2	2.16	0.45
1:K:202:LYS:O	1:K:203:LEU:HD12	2.16	0.45
1:K:244:VAL:HG23	1:K:244:VAL:O	2.16	0.45
1:K:261:VAL:HG13	1:L:241:ASN:ND2	2.31	0.45
1:K:298:ALA:HB3	1:K:303:MET:CE	2.46	0.45
1:K:513:ALA:HB1	1:L:457:PRO:HD2	1.98	0.45
1:L:321:LEU:HD21	1:L:599:LYS:NZ	2.32	0.45
1:L:351:GLN:NE2	1:L:358:PRO:CB	2.77	0.45
1:M:265:LEU:HD22	1:M:302:ILE:HA	1.99	0.45
1:M:321:LEU:HD21	1:M:599:LYS:NZ	2.32	0.45
1:M:517:ARG:HD2	1:N:456:VAL:CG1	2.45	0.45
1:N:138:ILE:CG2	1:N:139:ILE:N	2.71	0.45
1:O:212:ILE:HG23	1:O:212:ILE:O	2.16	0.45
1:A:209:THR:CG2	1:A:211:SER:HB2	2.46	0.45
1:A:244:VAL:O	1:A:244:VAL:HG23	2.16	0.45
1:A:250:LYS:HE2	1:A:252:GLU:HB3	1.98	0.45
1:A:494:ASP:O	1:A:531:ASP:HB2	2.16	0.45
1:A:544:ARG:NH1	1:B:434:ILE:HD13	2.31	0.45
1:B:322:ILE:CD1	1:B:498:LEU:CD2	2.92	0.45
1:B:523:LEU:HD13	1:C:450:PHE:CD1	2.45	0.45
1:C:238:LYS:CG	1:C:240:ASN:HB2	2.46	0.45
1:C:283:VAL:HG22	1:C:302:ILE:HG21	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:508:LEU:HD12	1:C:519:ALA:HB2	1.98	0.45
1:D:209:THR:HG21	1:D:211:SER:HB2	1.98	0.45
1:D:322:ILE:HD12	1:D:498:LEU:HD21	1.98	0.45
1:D:343:ASN:HB2	1:D:419:TRP:CE3	2.52	0.45
1:D:535:LEU:HD12	1:D:536:VAL:H	1.81	0.45
1:E:325:LEU:HD23	1:E:325:LEU:C	2.37	0.45
1:G:212:ILE:HG23	1:G:212:ILE:O	2.16	0.45
1:G:225:LYS:HA	1:G:228:ILE:HB	1.99	0.45
1:H:233:VAL:N	1:I:208:ARG:NH2	2.65	0.45
1:H:265:LEU:HD22	1:H:302:ILE:HA	1.99	0.45
1:H:438:PRO:HB2	1:H:450:PHE:CE2	2.51	0.45
1:H:500:ILE:HD13	1:H:537:LEU:HD11	1.97	0.45
1:J:202:LYS:O	1:J:203:LEU:HD12	2.17	0.45
1:J:209:THR:CG2	1:J:211:SER:HB2	2.47	0.45
1:J:265:LEU:HD22	1:J:302:ILE:CG1	2.47	0.45
1:J:487:VAL:O	1:J:487:VAL:HG12	2.17	0.45
1:K:209:THR:CG2	1:K:211:SER:HB2	2.47	0.45
1:K:209:THR:HG21	1:K:211:SER:HB2	1.98	0.45
1:K:500:ILE:CD1	1:K:581:ILE:HD12	2.47	0.45
1:L:209:THR:HG21	1:L:211:SER:HB2	1.98	0.45
1:L:487:VAL:O	1:L:487:VAL:HG12	2.17	0.45
1:L:644:ASP:O	1:L:648:GLN:HG3	2.17	0.45
1:M:541:ILE:HG12	1:M:576:ASN:HD22	1.82	0.45
1:M:644:ASP:O	1:M:648:GLN:HG3	2.17	0.45
1:N:212:ILE:HG23	1:N:212:ILE:O	2.16	0.45
1:N:250:LYS:HE2	1:N:252:GLU:HB3	1.99	0.45
1:N:261:VAL:CG1	1:O:241:ASN:HD22	2.29	0.45
1:N:325:LEU:HD23	1:N:325:LEU:C	2.37	0.45
1:N:417:GLY:O	1:N:418:ASP:CB	2.58	0.45
1:N:487:VAL:O	1:N:487:VAL:HG12	2.17	0.45
1:O:250:LYS:HE2	1:O:252:GLU:HB3	1.98	0.45
1:O:351:GLN:NE2	1:O:358:PRO:CB	2.77	0.45
1:O:452:VAL:O	1:O:452:VAL:HG12	2.16	0.45
1:A:209:THR:HG21	1:A:211:SER:HB2	1.98	0.45
1:A:265:LEU:HD22	1:A:302:ILE:HA	1.99	0.45
1:A:592:ALA:HB1	1:O:535:LEU:HD13	1.99	0.45
1:B:308:GLU:O	1:B:308:GLU:HG2	2.17	0.45
1:B:583:PRO:HD2	1:B:583:PRO:O	2.17	0.45
1:C:206:ASP:OD2	1:C:208:ARG:CB	2.59	0.45
1:D:599:LYS:O	1:D:602:TYR:HB3	2.17	0.45
1:E:225:LYS:HA	1:E:228:ILE:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:106:VAL:HG12	1:F:108:ASN:OD1	2.16	0.45
1:F:442:VAL:HG11	1:F:488:PRO:CG	2.21	0.45
1:H:644:ASP:O	1:H:648:GLN:HG3	2.17	0.45
1:I:141:ILE:HD11	1:I:155:ILE:CD1	2.46	0.45
1:I:209:THR:CG2	1:I:211:SER:HB2	2.47	0.45
1:I:265:LEU:HD22	1:I:302:ILE:HA	1.99	0.45
1:J:141:ILE:HD11	1:J:155:ILE:CD1	2.46	0.45
1:J:265:LEU:HD22	1:J:302:ILE:HA	1.99	0.45
1:J:494:ASP:O	1:J:531:ASP:HB2	2.16	0.45
1:K:322:ILE:HD12	1:K:498:LEU:HD21	1.98	0.45
1:L:108:ASN:ND2	1:M:134:ASP:CG	2.70	0.45
1:L:254:LEU:HD23	1:L:294:LEU:CD2	2.44	0.45
1:L:261:VAL:HG13	1:M:241:ASN:ND2	2.31	0.45
1:L:261:VAL:CG1	1:M:241:ASN:HD22	2.28	0.45
1:L:265:LEU:HD22	1:L:302:ILE:HA	1.99	0.45
1:L:442:VAL:HG22	1:L:443:MET:N	2.31	0.45
1:L:523:LEU:HD13	1:M:450:PHE:CD1	2.45	0.45
1:N:202:LYS:O	1:N:203:LEU:HD12	2.17	0.45
1:N:265:LEU:HD22	1:N:302:ILE:HA	1.99	0.45
1:N:286:ALA:O	1:N:295:VAL:N	2.40	0.45
1:O:265:LEU:HD22	1:O:302:ILE:HA	1.99	0.45
1:O:343:ASN:HB2	1:O:419:TRP:CE3	2.51	0.45
1:O:644:ASP:O	1:O:648:GLN:HG3	2.17	0.45
1:A:214:ILE:CD1	1:A:220:VAL:CG1	2.49	0.45
1:A:308:GLU:O	1:A:308:GLU:HG2	2.17	0.45
1:B:244:VAL:HG23	1:B:244:VAL:O	2.16	0.45
1:C:321:LEU:HD21	1:C:599:LYS:NZ	2.32	0.45
1:C:608:LEU:CD2	1:C:625:VAL:CG1	2.95	0.45
1:D:209:THR:CG2	1:D:211:SER:HB2	2.47	0.45
1:D:513:ALA:HB1	1:E:457:PRO:HD2	1.98	0.45
1:E:106:VAL:HG12	1:E:108:ASN:OD1	2.16	0.45
1:E:108:ASN:OD1	1:E:109:VAL:N	2.44	0.45
1:E:321:LEU:HD21	1:E:599:LYS:NZ	2.32	0.45
1:E:494:ASP:O	1:E:531:ASP:HB2	2.16	0.45
1:E:604:ARG:NH2	1:E:626:LEU:O	2.50	0.45
1:F:265:LEU:HD22	1:F:302:ILE:HA	1.99	0.45
1:F:308:GLU:HG2	1:F:308:GLU:O	2.17	0.45
1:F:487:VAL:O	1:F:487:VAL:HG12	2.17	0.45
1:F:523:LEU:CD1	1:G:440:ILE:HD11	2.37	0.45
1:F:644:ASP:O	1:F:648:GLN:HG3	2.17	0.45
1:G:265:LEU:HD22	1:G:302:ILE:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:343:ASN:HB2	1:G:419:TRP:CE3	2.51	0.45
1:G:541:ILE:HG12	1:G:576:ASN:HD22	1.82	0.45
1:H:169:VAL:CG1	1:H:228:ILE:CG2	2.85	0.45
1:I:202:LYS:O	1:I:203:LEU:HD12	2.17	0.45
1:I:487:VAL:O	1:I:487:VAL:HG12	2.17	0.45
1:I:644:ASP:O	1:I:648:GLN:HG3	2.17	0.45
1:J:227:LEU:HD23	1:J:230:GLN:HG3	1.99	0.45
1:J:308:GLU:O	1:J:308:GLU:HG2	2.17	0.45
1:J:500:ILE:HD13	1:J:537:LEU:HD11	1.97	0.45
1:K:141:ILE:HD11	1:K:155:ILE:CD1	2.46	0.45
1:K:313:LEU:HD22	1:L:288:HIS:CD2	2.51	0.45
1:L:244:VAL:HG23	1:L:244:VAL:O	2.16	0.45
1:L:298:ALA:HB3	1:L:303:MET:CE	2.46	0.45
1:L:599:LYS:O	1:L:602:TYR:HB3	2.17	0.45
1:N:298:ALA:HB3	1:N:303:MET:CE	2.46	0.45
1:N:315:ILE:HD11	1:O:291:THR:CG2	2.46	0.45
1:N:535:LEU:HD13	1:O:592:ALA:HB1	1.99	0.45
1:O:326:ILE:HD13	1:O:504:VAL:CG2	2.46	0.45
1:O:442:VAL:HG22	1:O:443:MET:N	2.31	0.45
1:A:108:ASN:ND2	1:B:134:ASP:CG	2.71	0.45
1:A:321:LEU:HD21	1:A:599:LYS:NZ	2.32	0.45
1:A:599:LYS:O	1:A:602:TYR:HB3	2.17	0.45
1:B:265:LEU:HD22	1:B:302:ILE:HA	1.99	0.45
1:B:572:VAL:HG21	1:D:615:LEU:HD13	1.99	0.45
1:C:491:ASN:HB3	1:D:248:TYR:CD1	2.51	0.45
1:C:535:LEU:HD13	1:D:592:ALA:HB1	1.99	0.45
1:C:541:ILE:HG12	1:C:576:ASN:HD22	1.82	0.45
1:C:572:VAL:HG21	1:E:615:LEU:HD13	1.98	0.45
1:C:644:ASP:O	1:C:648:GLN:HG3	2.16	0.45
1:D:500:ILE:CD1	1:D:581:ILE:HD12	2.46	0.45
1:D:508:LEU:HD12	1:D:519:ALA:HB2	1.98	0.45
1:D:604:ARG:NH2	1:D:626:LEU:O	2.50	0.45
1:E:209:THR:CG2	1:E:211:SER:HB2	2.47	0.45
1:E:265:LEU:HD22	1:E:302:ILE:HA	1.99	0.45
1:E:326:ILE:HD13	1:E:504:VAL:CG2	2.46	0.45
1:E:451:ILE:HD12	1:E:483:LYS:HE3	1.99	0.45
1:E:508:LEU:HD12	1:E:519:ALA:HB2	1.98	0.45
1:E:599:LYS:O	1:E:602:TYR:HB3	2.17	0.45
1:F:218:PRO:HA	1:F:221:ARG:CB	2.45	0.45
1:F:325:LEU:HD23	1:F:325:LEU:C	2.38	0.45
1:F:452:VAL:O	1:F:452:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:350:ILE:HG12	1:H:410:ALA:CB	2.47	0.45
1:G:535:LEU:HD13	1:H:592:ALA:HB1	1.99	0.45
1:H:261:VAL:HG13	1:I:241:ASN:ND2	2.31	0.45
1:H:604:ARG:NH2	1:H:626:LEU:O	2.50	0.45
1:I:321:LEU:HD21	1:I:599:LYS:NZ	2.32	0.45
1:J:212:ILE:CG2	1:J:228:ILE:HG12	2.46	0.45
1:J:491:ASN:HB3	1:K:248:TYR:CD1	2.51	0.45
1:K:156:LYS:HA	1:K:159:ASP:HB3	1.99	0.45
1:K:218:PRO:HA	1:K:221:ARG:CB	2.45	0.45
1:K:225:LYS:HA	1:K:228:ILE:HB	1.99	0.45
1:K:227:LEU:HD23	1:K:230:GLN:HG3	1.99	0.45
1:K:265:LEU:HD22	1:K:302:ILE:HA	1.99	0.45
1:K:541:ILE:HG12	1:K:576:ASN:HD22	1.82	0.45
1:K:599:LYS:O	1:K:602:TYR:HB3	2.17	0.45
1:L:141:ILE:HD11	1:L:155:ILE:CD1	2.45	0.45
1:L:604:ARG:NH2	1:L:626:LEU:O	2.50	0.45
1:M:169:VAL:CG1	1:M:228:ILE:CG2	2.85	0.45
1:M:209:THR:HG21	1:M:211:SER:HB2	1.98	0.45
1:M:343:ASN:HB2	1:M:419:TRP:CE3	2.51	0.45
1:M:487:VAL:O	1:M:487:VAL:HG12	2.17	0.45
1:N:535:LEU:HD12	1:N:536:VAL:H	1.81	0.45
1:N:604:ARG:NH2	1:N:626:LEU:O	2.50	0.45
1:O:298:ALA:HB3	1:O:303:MET:CE	2.46	0.45
1:O:541:ILE:HG12	1:O:576:ASN:HD22	1.82	0.45
1:O:599:LYS:O	1:O:602:TYR:HB3	2.17	0.45
1:A:326:ILE:HD13	1:A:504:VAL:CG2	2.47	0.44
1:B:238:LYS:CG	1:B:240:ASN:HB2	2.46	0.44
1:B:326:ILE:CD1	1:B:502:GLN:NE2	2.67	0.44
1:B:487:VAL:O	1:B:487:VAL:HG12	2.16	0.44
1:C:156:LYS:HA	1:C:159:ASP:HB3	1.99	0.44
1:C:265:LEU:HD22	1:C:302:ILE:HA	1.99	0.44
1:C:325:LEU:HD23	1:C:325:LEU:C	2.37	0.44
1:D:156:LYS:HA	1:D:159:ASP:HB3	1.99	0.44
1:D:265:LEU:HD22	1:D:302:ILE:HA	1.99	0.44
1:F:157:ARG:O	1:G:140:LEU:HD13	2.01	0.44
1:H:156:LYS:HA	1:H:159:ASP:HB3	1.99	0.44
1:H:325:LEU:HD23	1:H:325:LEU:C	2.38	0.44
1:H:452:VAL:O	1:H:452:VAL:HG12	2.16	0.44
1:H:523:LEU:HD13	1:I:450:PHE:CD1	2.45	0.44
1:I:250:LYS:HE2	1:I:252:GLU:HB3	1.99	0.44
1:I:265:LEU:HD22	1:I:302:ILE:CG1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:325:LEU:HD23	1:I:325:LEU:C	2.37	0.44
1:I:599:LYS:O	1:I:602:TYR:HB3	2.17	0.44
1:J:250:LYS:HE2	1:J:252:GLU:HB3	1.99	0.44
1:K:285:ILE:HD11	1:K:306:LEU:HD22	1.97	0.44
1:K:487:VAL:O	1:K:487:VAL:HG12	2.17	0.44
1:L:325:LEU:HD23	1:L:325:LEU:C	2.38	0.44
1:L:440:ILE:HD12	1:L:440:ILE:HA	1.80	0.44
1:M:261:VAL:CG1	1:N:241:ASN:HD22	2.29	0.44
1:M:322:ILE:HD12	1:M:498:LEU:HD21	1.98	0.44
1:M:500:ILE:CD1	1:M:581:ILE:HD12	2.46	0.44
1:N:265:LEU:HD23	1:N:302:ILE:HG12	1.96	0.44
1:A:208:ARG:NH2	1:O:233:VAL:N	2.64	0.44
1:A:241:ASN:HD22	1:O:261:VAL:CG1	2.30	0.44
1:A:325:LEU:HD23	1:A:325:LEU:C	2.38	0.44
1:A:410:ALA:CB	1:O:350:ILE:HG12	2.48	0.44
1:A:541:ILE:HG12	1:A:576:ASN:HD22	1.82	0.44
1:A:604:ARG:NH2	1:A:626:LEU:O	2.51	0.44
1:A:612:GLU:CG	1:B:642:PHE:HE2	2.28	0.44
1:B:202:LYS:O	1:B:203:LEU:HD12	2.17	0.44
1:C:209:THR:HG21	1:C:211:SER:HB2	1.98	0.44
1:C:218:PRO:HA	1:C:221:ARG:CB	2.45	0.44
1:C:326:ILE:HD13	1:C:504:VAL:CG2	2.46	0.44
1:D:487:VAL:O	1:D:487:VAL:HG12	2.16	0.44
1:E:583:PRO:HD2	1:E:583:PRO:O	2.16	0.44
1:F:209:THR:HG21	1:F:211:SER:HB2	1.98	0.44
1:F:212:ILE:CG2	1:F:228:ILE:HG12	2.46	0.44
1:F:343:ASN:HB2	1:F:419:TRP:CE3	2.51	0.44
1:G:487:VAL:HG12	1:G:487:VAL:O	2.17	0.44
1:I:108:ASN:ND2	1:J:134:ASP:CG	2.71	0.44
1:I:500:ILE:HD13	1:I:537:LEU:HD11	1.97	0.44
1:I:523:LEU:CD1	1:J:440:ILE:HD11	2.36	0.44
1:I:608:LEU:CD2	1:I:625:VAL:CG1	2.95	0.44
1:J:321:LEU:N	1:J:584:THR:O	2.42	0.44
1:J:513:ALA:HB1	1:K:457:PRO:HD2	2.00	0.44
1:K:285:ILE:HG12	1:K:296:LEU:HD23	1.97	0.44
1:L:343:ASN:HB2	1:L:419:TRP:CE3	2.51	0.44
1:M:106:VAL:HG12	1:M:108:ASN:OD1	2.16	0.44
1:M:238:LYS:CG	1:M:240:ASN:HB2	2.46	0.44
1:M:244:VAL:HG23	1:M:244:VAL:O	2.16	0.44
1:M:451:ILE:HD12	1:M:483:LYS:HE3	1.99	0.44
1:M:604:ARG:NH2	1:M:626:LEU:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:299:PRO:CD	1:N:302:ILE:HD12	2.47	0.44
1:N:500:ILE:CD1	1:N:581:ILE:HD12	2.46	0.44
1:N:541:ILE:HG12	1:N:576:ASN:HD22	1.82	0.44
1:O:209:THR:CG2	1:O:211:SER:HB2	2.47	0.44
1:O:325:LEU:HD23	1:O:325:LEU:C	2.38	0.44
1:O:500:ILE:CD1	1:O:581:ILE:HD12	2.46	0.44
1:O:608:LEU:CD2	1:O:625:VAL:CG1	2.95	0.44
1:O:609:TYR:O	1:O:612:GLU:N	2.37	0.44
1:A:214:ILE:CG1	1:A:224:LEU:HD23	2.47	0.44
1:B:325:LEU:HD23	1:B:325:LEU:C	2.37	0.44
1:B:452:VAL:O	1:B:452:VAL:HG12	2.16	0.44
1:B:500:ILE:CD1	1:B:581:ILE:HD12	2.46	0.44
1:B:644:ASP:O	1:B:648:GLN:HG3	2.17	0.44
1:D:177:ALA:O	1:D:180:VAL:HB	2.18	0.44
1:D:209:THR:HG23	1:D:211:SER:N	2.33	0.44
1:D:219:LYS:HZ1	1:E:105:ALA:HB2	1.79	0.44
1:D:238:LYS:CG	1:D:240:ASN:HB2	2.46	0.44
1:F:508:LEU:HD12	1:F:519:ALA:HB2	1.98	0.44
1:F:572:VAL:HG21	1:H:615:LEU:HD13	1.98	0.44
1:G:451:ILE:HD12	1:G:483:LYS:HE3	1.99	0.44
1:H:440:ILE:HD12	1:H:440:ILE:HA	1.81	0.44
1:H:487:VAL:O	1:H:487:VAL:HG12	2.17	0.44
1:I:612:GLU:CG	1:J:642:PHE:HE2	2.28	0.44
1:J:106:VAL:HG12	1:J:108:ASN:OD1	2.16	0.44
1:J:325:LEU:HD23	1:J:325:LEU:C	2.38	0.44
1:K:321:LEU:HD21	1:K:599:LYS:NZ	2.32	0.44
1:K:343:ASN:HB2	1:K:419:TRP:CE3	2.51	0.44
1:K:351:GLN:NE2	1:K:358:PRO:CB	2.77	0.44
1:L:177:ALA:O	1:L:180:VAL:HB	2.18	0.44
1:L:225:LYS:HA	1:L:228:ILE:HB	1.99	0.44
1:L:608:LEU:CD2	1:L:625:VAL:CG1	2.95	0.44
1:N:209:THR:HG21	1:N:211:SER:HB2	1.98	0.44
1:A:209:THR:HG23	1:A:211:SER:N	2.33	0.44
1:A:212:ILE:O	1:A:212:ILE:HG23	2.16	0.44
1:A:487:VAL:O	1:A:487:VAL:HG12	2.17	0.44
1:A:535:LEU:HD13	1:B:592:ALA:HB1	1.99	0.44
1:B:209:THR:CG2	1:B:211:SER:HB2	2.47	0.44
1:B:214:ILE:CG1	1:B:224:LEU:HD23	2.47	0.44
1:B:350:ILE:HG12	1:C:410:ALA:CB	2.48	0.44
1:C:209:THR:CG2	1:C:211:SER:HB2	2.47	0.44
1:C:308:GLU:O	1:C:308:GLU:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:214:ILE:CG1	1:D:224:LEU:HD23	2.47	0.44
1:D:225:LYS:HA	1:D:228:ILE:HB	1.99	0.44
1:D:283:VAL:HG22	1:D:302:ILE:HG21	1.97	0.44
1:E:156:LYS:HA	1:E:159:ASP:HB3	1.99	0.44
1:E:209:THR:HG21	1:E:211:SER:HB2	1.98	0.44
1:E:369:ALA:CB	1:E:397:TYR:HD1	2.27	0.44
1:E:442:VAL:HG22	1:E:443:MET:N	2.32	0.44
1:G:156:LYS:HA	1:G:159:ASP:HB3	1.99	0.44
1:G:325:LEU:HD23	1:G:325:LEU:C	2.38	0.44
1:G:599:LYS:O	1:G:602:TYR:HB3	2.18	0.44
1:H:170:GLU:C	1:H:171:LEU:HD12	2.38	0.44
1:H:544:ARG:NH1	1:I:434:ILE:HD13	2.32	0.44
1:I:169:VAL:HG21	1:I:228:ILE:CD1	2.35	0.44
1:I:170:GLU:C	1:I:171:LEU:HD12	2.38	0.44
1:I:261:VAL:HG13	1:J:241:ASN:ND2	2.32	0.44
1:I:343:ASN:HB2	1:I:419:TRP:CE3	2.52	0.44
1:I:497:GLN:HG3	1:J:443:MET:HE2	1.98	0.44
1:I:604:ARG:NH2	1:I:626:LEU:O	2.50	0.44
1:J:497:GLN:HG3	1:K:443:MET:HE2	1.99	0.44
1:K:106:VAL:HG12	1:K:108:ASN:OD1	2.16	0.44
1:K:261:VAL:CG1	1:L:241:ASN:HD22	2.28	0.44
1:K:308:GLU:HG2	1:K:308:GLU:O	2.17	0.44
1:K:544:ARG:NH1	1:L:434:ILE:HD13	2.31	0.44
1:L:106:VAL:HG12	1:L:108:ASN:OD1	2.16	0.44
1:M:299:PRO:CD	1:M:302:ILE:HD12	2.48	0.44
1:M:442:VAL:HG22	1:M:443:MET:N	2.31	0.44
1:N:261:VAL:HG13	1:O:241:ASN:ND2	2.32	0.44
1:N:299:PRO:HG2	1:N:302:ILE:CD1	2.48	0.44
1:N:308:GLU:HG2	1:N:308:GLU:O	2.17	0.44
1:O:299:PRO:HG2	1:O:302:ILE:CD1	2.48	0.44
1:O:451:ILE:HD12	1:O:483:LYS:HE3	1.99	0.44
1:O:508:LEU:HD12	1:O:519:ALA:HB2	1.98	0.44
1:O:604:ARG:NH2	1:O:626:LEU:O	2.50	0.44
1:A:452:VAL:O	1:A:452:VAL:HG12	2.16	0.44
1:A:500:ILE:CD1	1:A:581:ILE:HD12	2.46	0.44
1:A:513:ALA:HB1	1:B:457:PRO:HD2	1.99	0.44
1:C:451:ILE:HD12	1:C:483:LYS:HE3	1.99	0.44
1:C:618:MET:HE2	1:C:622:HIS:ND1	2.32	0.44
1:D:513:ALA:CB	1:E:457:PRO:HD2	2.48	0.44
1:D:583:PRO:O	1:D:583:PRO:HD2	2.16	0.44
1:E:444:ASP:CG	1:E:490:ILE:CG1	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:169:VAL:CG1	1:F:228:ILE:CG2	2.85	0.44
1:F:265:LEU:HD22	1:F:302:ILE:CG1	2.47	0.44
1:F:350:ILE:HG12	1:G:410:ALA:CB	2.48	0.44
1:G:258:LEU:O	1:G:262:SER:HB3	2.18	0.44
1:G:308:GLU:O	1:G:308:GLU:HG2	2.17	0.44
1:G:604:ARG:NH2	1:G:626:LEU:O	2.50	0.44
1:H:177:ALA:O	1:H:180:VAL:HB	2.18	0.44
1:H:451:ILE:HD12	1:H:483:LYS:HE3	1.99	0.44
1:H:541:ILE:HG12	1:H:576:ASN:HD22	1.82	0.44
1:H:599:LYS:O	1:H:602:TYR:HB3	2.17	0.44
1:I:246:LEU:HD22	1:I:251:ALA:CB	2.40	0.44
1:I:480:VAL:O	1:I:480:VAL:CG2	2.61	0.44
1:I:507:VAL:O	1:I:507:VAL:HG13	2.18	0.44
1:J:139:ILE:HG21	1:J:155:ILE:HG21	2.00	0.44
1:J:442:VAL:HG22	1:J:443:MET:N	2.31	0.44
1:J:599:LYS:O	1:J:602:TYR:HB3	2.17	0.44
1:J:604:ARG:NH2	1:J:626:LEU:O	2.51	0.44
1:K:299:PRO:CD	1:K:302:ILE:HD12	2.47	0.44
1:K:553:PRO:HB2	1:K:554:LEU:H	1.65	0.44
1:L:202:LYS:O	1:L:203:LEU:HD12	2.16	0.44
1:M:177:ALA:O	1:M:180:VAL:HB	2.18	0.44
1:M:298:ALA:HB3	1:M:303:MET:CE	2.46	0.44
1:M:444:ASP:CG	1:M:490:ILE:CG1	2.86	0.44
1:N:156:LYS:HA	1:N:159:ASP:HB3	1.99	0.44
1:N:170:GLU:C	1:N:171:LEU:HD12	2.38	0.44
1:N:177:ALA:O	1:N:180:VAL:HB	2.18	0.44
1:N:209:THR:HG23	1:N:211:SER:N	2.33	0.44
1:N:214:ILE:CG1	1:N:224:LEU:HD23	2.47	0.44
1:N:285:ILE:HG12	1:N:296:LEU:HD23	1.97	0.44
1:N:350:ILE:HG12	1:O:410:ALA:CB	2.48	0.44
1:O:141:ILE:HD11	1:O:155:ILE:CD1	2.46	0.44
1:A:177:ALA:O	1:A:180:VAL:HB	2.18	0.44
1:B:286:ALA:O	1:B:295:VAL:N	2.40	0.44
1:B:417:GLY:O	1:B:418:ASP:CB	2.57	0.44
1:B:444:ASP:CG	1:B:490:ILE:CG1	2.86	0.44
1:B:541:ILE:HG12	1:B:576:ASN:HD22	1.82	0.44
1:B:604:ARG:NH2	1:B:626:LEU:O	2.51	0.44
1:C:104:VAL:HG21	1:C:156:LYS:HE2	1.99	0.44
1:C:202:LYS:O	1:C:203:LEU:HD12	2.17	0.44
1:C:261:VAL:CG1	1:D:241:ASN:HD22	2.28	0.44
1:C:458:VAL:HG21	1:C:478:LYS:HD3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:604:ARG:NH2	1:C:626:LEU:O	2.50	0.44
1:D:104:VAL:HG21	1:D:156:LYS:HE2	2.00	0.44
1:D:440:ILE:HD12	1:D:440:ILE:HA	1.81	0.44
1:F:138:ILE:CG2	1:F:139:ILE:N	2.71	0.44
1:F:254:LEU:HD23	1:F:294:LEU:CD2	2.44	0.44
1:F:604:ARG:NH2	1:F:626:LEU:O	2.51	0.44
1:G:170:GLU:C	1:G:171:LEU:HD12	2.38	0.44
1:G:508:LEU:HD12	1:G:519:ALA:HB2	1.98	0.44
1:H:108:ASN:ND2	1:I:134:ASP:CG	2.71	0.44
1:J:457:PRO:HA	1:J:477:ARG:HA	2.00	0.44
1:K:177:ALA:O	1:K:180:VAL:HB	2.18	0.44
1:K:350:ILE:HG12	1:L:410:ALA:CB	2.47	0.44
1:K:508:LEU:HD12	1:K:519:ALA:HB2	1.99	0.44
1:L:170:GLU:C	1:L:171:LEU:HD12	2.38	0.44
1:L:209:THR:HG23	1:L:211:SER:N	2.33	0.44
1:L:517:ARG:HD2	1:M:456:VAL:CG1	2.47	0.44
1:L:544:ARG:NH1	1:M:434:ILE:HD13	2.32	0.44
1:M:139:ILE:HD13	1:M:155:ILE:CG2	2.45	0.44
1:M:141:ILE:HD11	1:M:155:ILE:CD1	2.46	0.44
1:M:212:ILE:HG23	1:M:212:ILE:O	2.16	0.44
1:M:325:LEU:HD23	1:M:325:LEU:C	2.38	0.44
1:N:119:ARG:HA	1:N:122:ILE:HB	2.00	0.44
1:N:225:LYS:HA	1:N:228:ILE:HB	1.99	0.44
1:N:233:VAL:N	1:O:208:ARG:NH2	2.65	0.44
1:O:119:ARG:HA	1:O:122:ILE:HB	2.00	0.44
1:O:138:ILE:CG2	1:O:139:ILE:N	2.71	0.44
1:O:156:LYS:HA	1:O:159:ASP:HB3	1.99	0.44
1:O:177:ALA:O	1:O:180:VAL:HB	2.18	0.44
1:O:308:GLU:O	1:O:308:GLU:HG2	2.18	0.44
1:A:170:GLU:C	1:A:171:LEU:HD12	2.38	0.44
1:A:258:LEU:O	1:A:262:SER:HB3	2.18	0.44
1:B:119:ARG:HA	1:B:122:ILE:HB	2.00	0.44
1:B:299:PRO:HG2	1:B:302:ILE:CD1	2.48	0.44
1:C:265:LEU:HD22	1:C:302:ILE:CG1	2.47	0.44
1:C:368:GLU:CB	1:C:399:THR:HG21	2.48	0.44
1:E:177:ALA:O	1:E:180:VAL:HB	2.18	0.44
1:E:258:LEU:O	1:E:262:SER:HB3	2.18	0.44
1:E:572:VAL:HG21	1:G:615:LEU:HD13	1.98	0.44
1:F:170:GLU:C	1:F:171:LEU:HD12	2.38	0.44
1:F:209:THR:HG23	1:F:211:SER:N	2.33	0.44
1:F:321:LEU:HD21	1:F:599:LYS:NZ	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:541:ILE:HG12	1:F:576:ASN:HD22	1.81	0.44
1:F:583:PRO:O	1:F:583:PRO:HD2	2.16	0.44
1:I:139:ILE:HG21	1:I:155:ILE:HG21	2.00	0.44
1:I:227:LEU:HD23	1:I:230:GLN:HG3	2.00	0.44
1:I:233:VAL:N	1:J:208:ARG:NH2	2.65	0.44
1:J:170:GLU:C	1:J:171:LEU:HD12	2.38	0.44
1:J:258:LEU:CB	1:J:285:ILE:CD1	2.93	0.44
1:J:298:ALA:HB3	1:J:303:MET:HE2	1.99	0.44
1:J:523:LEU:CD1	1:K:440:ILE:HD11	2.37	0.44
1:K:254:LEU:HD23	1:K:294:LEU:CD2	2.44	0.44
1:K:457:PRO:HA	1:K:477:ARG:HA	2.00	0.44
1:K:523:LEU:CD1	1:L:440:ILE:HD11	2.37	0.44
1:L:227:LEU:HD23	1:L:230:GLN:HG3	2.00	0.44
1:L:299:PRO:HG2	1:L:302:ILE:CD1	2.48	0.44
1:M:119:ARG:HA	1:M:122:ILE:HB	2.00	0.44
1:M:209:THR:HG23	1:M:211:SER:N	2.33	0.44
1:N:457:PRO:HA	1:N:477:ARG:HA	2.00	0.44
1:N:458:VAL:HG21	1:N:478:LYS:HD3	2.00	0.44
1:O:209:THR:HG23	1:O:211:SER:N	2.33	0.44
1:O:299:PRO:CD	1:O:302:ILE:HD12	2.48	0.44
1:O:321:LEU:N	1:O:584:THR:O	2.42	0.44
1:O:444:ASP:CG	1:O:490:ILE:CG1	2.86	0.44
1:A:119:ARG:HA	1:A:122:ILE:HB	2.00	0.44
1:A:444:ASP:CG	1:A:490:ILE:CG1	2.86	0.44
1:B:225:LYS:HA	1:B:228:ILE:HB	1.99	0.44
1:B:250:LYS:HE2	1:B:252:GLU:HB3	2.00	0.44
1:B:321:LEU:HD21	1:B:599:LYS:NZ	2.32	0.44
1:C:177:ALA:O	1:C:180:VAL:HB	2.18	0.44
1:C:209:THR:HG23	1:C:211:SER:N	2.33	0.44
1:C:233:VAL:N	1:D:208:ARG:NH2	2.66	0.44
1:C:350:ILE:HG12	1:D:410:ALA:CB	2.48	0.44
1:C:583:PRO:HD2	1:C:583:PRO:O	2.17	0.44
1:C:599:LYS:O	1:C:602:TYR:HB3	2.17	0.44
1:D:523:LEU:HD13	1:E:450:PHE:CD1	2.45	0.44
1:D:612:GLU:CG	1:E:642:PHE:HE2	2.25	0.44
1:E:350:ILE:HG12	1:F:410:ALA:CB	2.48	0.44
1:E:535:LEU:HD12	1:E:536:VAL:H	1.81	0.44
1:F:238:LYS:CG	1:F:240:ASN:HB2	2.46	0.44
1:F:599:LYS:O	1:F:602:TYR:HB3	2.18	0.44
1:G:209:THR:CG2	1:G:211:SER:HB2	2.47	0.44
1:G:583:PRO:HD2	1:G:583:PRO:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:227:LEU:HD23	1:H:230:GLN:HG3	2.00	0.44
1:H:507:VAL:O	1:H:507:VAL:HG13	2.18	0.44
1:I:218:PRO:HA	1:I:221:ARG:CB	2.45	0.44
1:J:157:ARG:O	1:K:140:LEU:HD13	2.03	0.44
1:J:258:LEU:O	1:J:262:SER:HB3	2.18	0.44
1:J:350:ILE:HG12	1:K:410:ALA:CB	2.47	0.44
1:K:139:ILE:HG21	1:K:155:ILE:HG21	2.00	0.44
1:K:209:THR:HG23	1:K:211:SER:N	2.33	0.44
1:K:258:LEU:HD11	1:K:310:ILE:CD1	2.48	0.44
1:K:325:LEU:HD23	1:K:325:LEU:C	2.38	0.44
1:L:299:PRO:CD	1:L:302:ILE:HD12	2.48	0.44
1:L:451:ILE:HD12	1:L:483:LYS:HE3	1.99	0.44
1:M:250:LYS:HE2	1:M:252:GLU:HB3	1.99	0.44
1:M:350:ILE:HG12	1:N:410:ALA:CB	2.48	0.44
1:N:244:VAL:HG23	1:N:244:VAL:O	2.16	0.44
1:N:451:ILE:HD12	1:N:483:LYS:HE3	1.99	0.44
1:A:451:ILE:HD12	1:A:483:LYS:HE3	1.99	0.44
1:B:104:VAL:HG21	1:B:156:LYS:HE2	1.99	0.44
1:B:156:LYS:HA	1:B:159:ASP:HB3	1.99	0.44
1:B:435:LEU:HD23	1:B:435:LEU:C	2.38	0.44
1:C:119:ARG:HA	1:C:122:ILE:HB	2.00	0.44
1:C:513:ALA:HB1	1:D:457:PRO:HD2	1.99	0.44
1:D:202:LYS:O	1:D:203:LEU:HD12	2.16	0.44
1:D:507:VAL:HG13	1:D:507:VAL:O	2.18	0.44
1:E:104:VAL:HG21	1:E:156:LYS:HE2	2.00	0.44
1:E:170:GLU:C	1:E:171:LEU:HD12	2.38	0.44
1:E:507:VAL:HG13	1:E:507:VAL:O	2.18	0.44
1:F:451:ILE:HD12	1:F:483:LYS:HE3	1.99	0.44
1:I:177:ALA:O	1:I:180:VAL:HB	2.18	0.44
1:I:326:ILE:HG12	1:I:502:GLN:NE2	2.33	0.44
1:I:444:ASP:CG	1:I:490:ILE:CG1	2.86	0.44
1:I:643:ILE:HD12	1:I:643:ILE:HA	1.78	0.44
1:J:315:ILE:HD11	1:K:291:THR:HG23	2.00	0.44
1:J:321:LEU:HD21	1:J:599:LYS:NZ	2.32	0.44
1:K:101:THR:HA	1:K:142:THR:HA	2.00	0.44
1:K:119:ARG:HA	1:K:122:ILE:HB	2.00	0.44
1:L:119:ARG:HA	1:L:122:ILE:HB	2.00	0.44
1:L:139:ILE:HG21	1:L:155:ILE:HG21	2.00	0.44
1:L:156:LYS:HA	1:L:159:ASP:HB3	1.99	0.44
1:L:233:VAL:N	1:M:208:ARG:NH2	2.65	0.44
1:M:261:VAL:HG13	1:N:241:ASN:ND2	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:258:LEU:O	1:N:262:SER:HB3	2.18	0.44
1:N:444:ASP:CG	1:N:490:ILE:CG1	2.86	0.44
1:N:480:VAL:O	1:N:480:VAL:CG2	2.61	0.44
1:O:115:SER:N	1:O:116:PRO:HD2	2.33	0.44
1:O:265:LEU:HD23	1:O:302:ILE:HG12	1.96	0.44
1:A:139:ILE:HD13	1:A:155:ILE:CG2	2.45	0.43
1:A:167:GLU:HG2	1:A:214:ILE:CB	2.41	0.43
1:A:644:ASP:O	1:A:648:GLN:HG3	2.17	0.43
1:B:209:THR:HG23	1:B:211:SER:N	2.33	0.43
1:B:326:ILE:HD13	1:B:504:VAL:CG2	2.46	0.43
1:C:214:ILE:CG1	1:C:224:LEU:HD23	2.47	0.43
1:C:250:LYS:HE2	1:C:252:GLU:HB3	1.99	0.43
1:C:258:LEU:O	1:C:262:SER:HB3	2.18	0.43
1:D:350:ILE:HG12	1:E:410:ALA:CB	2.48	0.43
1:D:359:ILE:HD13	1:D:422:LEU:CB	2.48	0.43
1:D:541:ILE:HG12	1:D:576:ASN:HD22	1.82	0.43
1:D:596:THR:HG22	1:D:597:GLN:H	1.81	0.43
1:E:513:ALA:HB1	1:F:457:PRO:HD2	2.00	0.43
1:E:643:ILE:HD12	1:E:643:ILE:HA	1.78	0.43
1:F:104:VAL:HG21	1:F:156:LYS:HE2	2.00	0.43
1:F:156:LYS:HA	1:F:159:ASP:HB3	1.99	0.43
1:F:233:VAL:N	1:G:208:ARG:NH2	2.66	0.43
1:F:261:VAL:HG13	1:G:241:ASN:ND2	2.31	0.43
1:G:115:SER:N	1:G:116:PRO:HD2	2.33	0.43
1:G:553:PRO:HB2	1:G:554:LEU:H	1.65	0.43
1:H:285:ILE:HG12	1:H:296:LEU:HD23	1.97	0.43
1:H:513:ALA:CB	1:I:457:PRO:HD2	2.48	0.43
1:H:618:MET:HB3	1:H:618:MET:HE2	1.87	0.43
1:I:209:THR:HG23	1:I:211:SER:N	2.33	0.43
1:I:308:GLU:O	1:I:308:GLU:HG2	2.17	0.43
1:J:214:ILE:CG1	1:J:224:LEU:HD23	2.47	0.43
1:J:261:VAL:HG13	1:K:241:ASN:ND2	2.32	0.43
1:J:541:ILE:HG12	1:J:576:ASN:HD22	1.82	0.43
1:K:169:VAL:HG21	1:K:228:ILE:CD1	2.35	0.43
1:K:212:ILE:CG2	1:K:228:ILE:HG12	2.47	0.43
1:K:604:ARG:NH2	1:K:626:LEU:O	2.50	0.43
1:L:444:ASP:CG	1:L:490:ILE:CG1	2.86	0.43
1:L:609:TYR:O	1:L:612:GLU:N	2.37	0.43
1:M:139:ILE:HG21	1:M:155:ILE:HG21	2.00	0.43
1:M:286:ALA:O	1:M:295:VAL:N	2.40	0.43
1:M:599:LYS:O	1:M:602:TYR:HB3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:609:TYR:O	1:M:612:GLU:N	2.37	0.43
1:N:141:ILE:HD11	1:N:155:ILE:CD1	2.45	0.43
1:N:523:LEU:CD1	1:O:440:ILE:HD11	2.37	0.43
1:N:599:LYS:O	1:N:602:TYR:HB3	2.18	0.43
1:O:457:PRO:HA	1:O:477:ARG:HA	2.00	0.43
1:O:487:VAL:HG12	1:O:487:VAL:O	2.17	0.43
1:O:596:THR:HG22	1:O:597:GLN:H	1.81	0.43
1:B:177:ALA:O	1:B:180:VAL:HB	2.18	0.43
1:B:599:LYS:O	1:B:602:TYR:HB3	2.17	0.43
1:B:643:ILE:HD12	1:B:643:ILE:HA	1.78	0.43
1:C:359:ILE:HD13	1:C:422:LEU:CB	2.49	0.43
1:C:643:ILE:O	1:C:647:GLU:HG3	2.18	0.43
1:D:362:VAL:HG21	1:D:422:LEU:CD1	2.49	0.43
1:D:572:VAL:HG21	1:F:615:LEU:HD13	1.98	0.43
1:D:643:ILE:O	1:D:647:GLU:HG3	2.19	0.43
1:E:261:VAL:HG13	1:F:241:ASN:ND2	2.31	0.43
1:E:631:GLU:O	1:E:632:ASP:HB3	2.18	0.43
1:F:101:THR:HA	1:F:142:THR:HA	2.00	0.43
1:F:444:ASP:CG	1:F:490:ILE:CG1	2.86	0.43
1:G:108:ASN:ND2	1:H:134:ASP:CG	2.72	0.43
1:G:177:ALA:O	1:G:180:VAL:HB	2.18	0.43
1:G:444:ASP:CG	1:G:490:ILE:CG1	2.86	0.43
1:G:513:ALA:CB	1:H:457:PRO:HD2	2.48	0.43
1:G:523:LEU:CD1	1:H:440:ILE:HD11	2.37	0.43
1:H:217:ASP:O	1:H:221:ARG:N	2.51	0.43
1:H:444:ASP:CG	1:H:490:ILE:CG1	2.86	0.43
1:I:315:ILE:HD11	1:J:291:THR:HG23	2.00	0.43
1:J:101:THR:HA	1:J:142:THR:HA	2.00	0.43
1:J:643:ILE:O	1:J:647:GLU:HG3	2.19	0.43
1:K:115:SER:N	1:K:116:PRO:HD2	2.33	0.43
1:K:299:PRO:HG2	1:K:302:ILE:CD1	2.48	0.43
1:L:212:ILE:CG2	1:L:228:ILE:HG12	2.47	0.43
1:L:258:LEU:O	1:L:262:SER:HB3	2.18	0.43
1:M:156:LYS:HA	1:M:159:ASP:HB3	1.99	0.43
1:M:258:LEU:HD11	1:M:310:ILE:CD1	2.48	0.43
1:M:326:ILE:CD1	1:M:502:GLN:NE2	2.67	0.43
1:M:359:ILE:HD13	1:M:422:LEU:CB	2.48	0.43
1:N:362:VAL:HG21	1:N:422:LEU:CD1	2.48	0.43
1:O:326:ILE:HG12	1:O:502:GLN:NE2	2.33	0.43
1:A:265:LEU:HD23	1:A:302:ILE:HG12	1.96	0.43
1:A:368:GLU:CB	1:A:399:THR:HG21	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:523:LEU:CD1	1:C:440:ILE:HD11	2.36	0.43
1:C:258:LEU:HD11	1:C:310:ILE:CD1	2.48	0.43
1:D:170:GLU:C	1:D:171:LEU:HD12	2.38	0.43
1:D:325:LEU:HD23	1:D:325:LEU:C	2.38	0.43
1:D:644:ASP:O	1:D:648:GLN:HG3	2.17	0.43
1:E:101:THR:HA	1:E:142:THR:HA	2.00	0.43
1:E:233:VAL:N	1:F:208:ARG:NH2	2.67	0.43
1:E:261:VAL:CG1	1:F:241:ASN:ND2	2.81	0.43
1:E:541:ILE:HG12	1:E:576:ASN:HD22	1.82	0.43
1:E:608:LEU:CD2	1:E:625:VAL:CG1	2.95	0.43
1:E:618:MET:HB3	1:E:618:MET:HE2	1.84	0.43
1:G:104:VAL:HG21	1:G:156:LYS:HE2	1.99	0.43
1:G:217:ASP:O	1:G:221:ARG:N	2.51	0.43
1:H:115:SER:N	1:H:116:PRO:HD2	2.33	0.43
1:H:225:LYS:HA	1:H:228:ILE:HB	1.99	0.43
1:H:299:PRO:HG2	1:H:302:ILE:CD1	2.48	0.43
1:H:308:GLU:HG2	1:H:308:GLU:O	2.18	0.43
1:I:258:LEU:O	1:I:262:SER:HB3	2.18	0.43
1:J:343:ASN:HB2	1:J:419:TRP:CE3	2.51	0.43
1:J:359:ILE:HD13	1:J:422:LEU:CB	2.49	0.43
1:J:451:ILE:HD12	1:J:483:LYS:HE3	1.99	0.43
1:K:451:ILE:HD12	1:K:483:LYS:HE3	1.99	0.43
1:L:308:GLU:O	1:L:308:GLU:HG2	2.17	0.43
1:M:212:ILE:CG2	1:M:228:ILE:HG12	2.46	0.43
1:M:214:ILE:CG1	1:M:224:LEU:HD23	2.47	0.43
1:M:217:ASP:O	1:M:221:ARG:N	2.51	0.43
1:M:258:LEU:O	1:M:262:SER:HB3	2.18	0.43
1:M:362:VAL:HG21	1:M:422:LEU:CD1	2.48	0.43
1:M:457:PRO:HA	1:M:477:ARG:HA	2.00	0.43
1:O:322:ILE:HD12	1:O:498:LEU:HD21	1.98	0.43
1:A:261:VAL:CG1	1:B:241:ASN:ND2	2.82	0.43
1:B:138:ILE:CG2	1:B:139:ILE:N	2.71	0.43
1:B:315:ILE:HD11	1:C:291:THR:HG23	2.00	0.43
1:B:631:GLU:O	1:B:632:ASP:HB3	2.19	0.43
1:C:170:GLU:C	1:C:171:LEU:HD12	2.38	0.43
1:C:299:PRO:HG2	1:C:302:ILE:CD1	2.48	0.43
1:C:487:VAL:O	1:C:487:VAL:HG12	2.17	0.43
1:C:523:LEU:HD13	1:D:450:PHE:CD1	2.45	0.43
1:D:258:LEU:O	1:D:262:SER:HB3	2.18	0.43
1:D:444:ASP:CG	1:D:490:ILE:CG1	2.86	0.43
1:E:322:ILE:HD12	1:E:498:LEU:HD21	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:487:VAL:O	1:E:487:VAL:HG12	2.17	0.43
1:F:225:LYS:HA	1:F:228:ILE:HB	1.99	0.43
1:F:250:LYS:HE2	1:F:252:GLU:HB3	1.99	0.43
1:F:483:LYS:HD3	1:F:503:GLU:OE1	2.19	0.43
1:F:612:GLU:CG	1:G:642:PHE:HE2	2.27	0.43
1:G:214:ILE:CG1	1:G:224:LEU:HD23	2.47	0.43
1:G:227:LEU:HD23	1:G:230:GLN:HG3	1.99	0.43
1:H:139:ILE:HG21	1:H:155:ILE:HG21	2.00	0.43
1:H:258:LEU:O	1:H:262:SER:HB3	2.18	0.43
1:H:299:PRO:CD	1:H:302:ILE:HD12	2.48	0.43
1:H:483:LYS:HD3	1:H:503:GLU:OE1	2.19	0.43
1:I:314:ASP:OD1	1:I:314:ASP:O	2.37	0.43
1:I:322:ILE:HD12	1:I:498:LEU:HD21	1.98	0.43
1:J:119:ARG:HA	1:J:122:ILE:HB	2.00	0.43
1:J:218:PRO:HA	1:J:221:ARG:CB	2.45	0.43
1:J:225:LYS:HA	1:J:228:ILE:HB	1.99	0.43
1:K:444:ASP:CG	1:K:490:ILE:CG1	2.86	0.43
1:L:217:ASP:O	1:L:221:ARG:N	2.51	0.43
1:L:258:LEU:HD11	1:L:310:ILE:CD1	2.49	0.43
1:L:359:ILE:HD13	1:L:422:LEU:CB	2.48	0.43
1:L:359:ILE:HD13	1:L:422:LEU:HB3	2.00	0.43
1:L:541:ILE:HG12	1:L:576:ASN:HD22	1.82	0.43
1:N:258:LEU:CB	1:N:285:ILE:CD1	2.93	0.43
1:N:612:GLU:CG	1:O:642:PHE:HE2	2.26	0.43
1:N:643:ILE:O	1:N:647:GLU:HG3	2.19	0.43
1:A:233:VAL:N	1:B:208:ARG:NH2	2.66	0.43
1:A:609:TYR:O	1:A:612:GLU:N	2.37	0.43
1:A:631:GLU:O	1:A:632:ASP:HB3	2.19	0.43
1:B:483:LYS:HD3	1:B:503:GLU:OE1	2.19	0.43
1:C:227:LEU:HD23	1:C:230:GLN:HG3	1.99	0.43
1:C:286:ALA:O	1:C:295:VAL:N	2.40	0.43
1:C:444:ASP:CG	1:C:490:ILE:CG1	2.86	0.43
1:D:101:THR:HA	1:D:142:THR:HA	2.00	0.43
1:D:308:GLU:O	1:D:308:GLU:HG2	2.18	0.43
1:E:359:ILE:HD13	1:E:422:LEU:CB	2.49	0.43
1:F:214:ILE:CG1	1:F:224:LEU:HD23	2.47	0.43
1:F:299:PRO:CD	1:F:302:ILE:HD12	2.48	0.43
1:G:254:LEU:HD23	1:G:294:LEU:CD2	2.44	0.43
1:G:359:ILE:HD13	1:G:422:LEU:CB	2.49	0.43
1:G:458:VAL:HG21	1:G:478:LYS:HD3	2.00	0.43
1:H:246:LEU:HD22	1:H:251:ALA:CB	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:115:SER:N	1:I:116:PRO:HD2	2.33	0.43
1:I:258:LEU:HD11	1:I:310:ILE:CD1	2.48	0.43
1:I:299:PRO:HG2	1:I:302:ILE:CD1	2.48	0.43
1:I:359:ILE:HD13	1:I:422:LEU:CB	2.48	0.43
1:I:359:ILE:HD13	1:I:422:LEU:HB3	2.00	0.43
1:I:457:PRO:HA	1:I:477:ARG:HA	2.00	0.43
1:I:483:LYS:HD3	1:I:503:GLU:OE1	2.19	0.43
1:J:608:LEU:CD2	1:J:625:VAL:CG1	2.94	0.43
1:K:258:LEU:O	1:K:262:SER:HB3	2.18	0.43
1:L:101:THR:HA	1:L:142:THR:HA	2.00	0.43
1:M:480:VAL:O	1:M:480:VAL:CG2	2.61	0.43
1:N:139:ILE:HG21	1:N:155:ILE:HG21	2.00	0.43
1:N:175:SER:O	1:N:178:GLU:HB3	2.19	0.43
1:N:258:LEU:HD11	1:N:310:ILE:CD1	2.48	0.43
1:N:258:LEU:HD11	1:N:310:ILE:HD11	2.01	0.43
1:N:585:ILE:HG22	1:N:587:ARG:HG3	2.00	0.43
1:N:608:LEU:HD23	1:N:625:VAL:CG1	2.49	0.43
1:O:359:ILE:HD13	1:O:422:LEU:CB	2.49	0.43
1:A:258:LEU:HD11	1:A:310:ILE:CD1	2.48	0.43
1:A:298:ALA:HB3	1:A:303:MET:HE2	2.00	0.43
1:A:362:VAL:HG21	1:A:422:LEU:CD1	2.49	0.43
1:A:366:LEU:HD23	1:A:366:LEU:HA	1.85	0.43
1:B:175:SER:O	1:B:178:GLU:HB3	2.19	0.43
1:B:258:LEU:HD11	1:B:310:ILE:HD11	2.01	0.43
1:B:359:ILE:HD13	1:B:422:LEU:CB	2.49	0.43
1:B:459:ILE:CG2	1:B:460:THR:N	2.82	0.43
1:B:608:LEU:CD2	1:B:625:VAL:CG1	2.94	0.43
1:B:643:ILE:O	1:B:647:GLU:HG3	2.19	0.43
1:C:139:ILE:HG21	1:C:155:ILE:HG21	2.00	0.43
1:C:225:LYS:HA	1:C:228:ILE:HB	1.99	0.43
1:C:457:PRO:HA	1:C:477:ARG:HA	2.00	0.43
1:C:459:ILE:CG2	1:C:460:THR:N	2.82	0.43
1:C:631:GLU:O	1:C:632:ASP:HB3	2.19	0.43
1:D:219:LYS:HZ2	1:E:105:ALA:HB2	1.82	0.43
1:D:322:ILE:CD1	1:D:498:LEU:CD2	2.91	0.43
1:D:442:VAL:HG13	1:D:488:PRO:HG2	2.01	0.43
1:D:451:ILE:HD12	1:D:483:LYS:HE3	1.99	0.43
1:D:631:GLU:O	1:D:632:ASP:HB3	2.19	0.43
1:E:119:ARG:HA	1:E:122:ILE:HB	2.00	0.43
1:E:209:THR:HG23	1:E:211:SER:N	2.33	0.43
1:E:214:ILE:CG1	1:E:224:LEU:HD23	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:326:ILE:HG12	1:E:502:GLN:NE2	2.33	0.43
1:E:644:ASP:O	1:E:648:GLN:HG3	2.17	0.43
1:F:529:VAL:HG12	1:F:530:GLN:N	2.34	0.43
1:G:101:THR:HA	1:G:142:THR:HA	2.00	0.43
1:G:209:THR:HG23	1:G:211:SER:N	2.33	0.43
1:G:212:ILE:CG2	1:G:228:ILE:HG12	2.46	0.43
1:G:299:PRO:CD	1:G:302:ILE:HD12	2.48	0.43
1:G:483:LYS:HD3	1:G:503:GLU:OE1	2.19	0.43
1:H:350:ILE:HG12	1:I:410:ALA:CB	2.48	0.43
1:H:608:LEU:CD2	1:H:625:VAL:CG1	2.95	0.43
1:H:631:GLU:O	1:H:632:ASP:HB3	2.19	0.43
1:J:217:ASP:O	1:J:221:ARG:N	2.51	0.43
1:J:254:LEU:HD23	1:J:294:LEU:CD2	2.44	0.43
1:J:483:LYS:HD3	1:J:503:GLU:OE1	2.19	0.43
1:K:170:GLU:C	1:K:171:LEU:HD12	2.38	0.43
1:L:115:SER:N	1:L:116:PRO:HD2	2.33	0.43
1:L:350:ILE:HG12	1:M:410:ALA:CB	2.48	0.43
1:L:507:VAL:HG13	1:L:507:VAL:O	2.18	0.43
1:M:227:LEU:HD23	1:M:230:GLN:HG3	2.00	0.43
1:N:368:GLU:CB	1:N:399:THR:HG21	2.48	0.43
1:A:225:LYS:HA	1:A:228:ILE:HB	1.99	0.43
1:A:322:ILE:HD12	1:A:498:LEU:HD21	1.98	0.43
1:A:457:PRO:HD2	1:O:513:ALA:CB	2.48	0.43
1:B:139:ILE:HG21	1:B:155:ILE:HG21	2.00	0.43
1:B:170:GLU:C	1:B:171:LEU:HD12	2.38	0.43
1:B:362:VAL:HG21	1:B:422:LEU:CD1	2.49	0.43
1:B:457:PRO:HA	1:B:477:ARG:HA	2.00	0.43
1:B:618:MET:HB3	1:B:618:MET:HE2	1.86	0.43
1:C:101:THR:HA	1:C:142:THR:HA	2.00	0.43
1:C:175:SER:O	1:C:178:GLU:HB3	2.19	0.43
1:D:457:PRO:HA	1:D:477:ARG:HA	2.00	0.43
1:E:175:SER:O	1:E:178:GLU:HB3	2.19	0.43
1:E:362:VAL:HG21	1:E:422:LEU:CD1	2.49	0.43
1:E:517:ARG:HD2	1:F:456:VAL:CG1	2.46	0.43
1:E:568:THR:CG2	1:G:617:LEU:CD1	2.97	0.43
1:E:643:ILE:O	1:E:647:GLU:HG3	2.19	0.43
1:F:115:SER:N	1:F:116:PRO:HD2	2.34	0.43
1:F:261:VAL:CG1	1:G:241:ASN:ND2	2.82	0.43
1:F:362:VAL:HG21	1:F:422:LEU:CD1	2.49	0.43
1:F:643:ILE:O	1:F:647:GLU:HG3	2.19	0.43
1:G:286:ALA:O	1:G:295:VAL:N	2.40	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:452:VAL:O	1:G:452:VAL:HG12	2.16	0.43
1:H:209:THR:HG23	1:H:211:SER:N	2.33	0.43
1:H:261:VAL:CG1	1:I:241:ASN:ND2	2.81	0.43
1:H:343:ASN:HB2	1:H:419:TRP:CE3	2.52	0.43
1:I:101:THR:HA	1:I:142:THR:HA	2.00	0.43
1:I:121:LEU:HD23	1:I:121:LEU:O	2.19	0.43
1:I:217:ASP:O	1:I:221:ARG:N	2.51	0.43
1:I:299:PRO:CD	1:I:302:ILE:HD12	2.48	0.43
1:I:541:ILE:HG12	1:I:576:ASN:HD22	1.82	0.43
1:I:643:ILE:O	1:I:647:GLU:HG3	2.19	0.43
1:J:115:SER:N	1:J:116:PRO:HD2	2.34	0.43
1:J:175:SER:O	1:J:178:GLU:HB3	2.19	0.43
1:J:177:ALA:O	1:J:180:VAL:HB	2.18	0.43
1:K:217:ASP:O	1:K:221:ARG:N	2.51	0.43
1:K:258:LEU:HD11	1:K:310:ILE:HD11	2.00	0.43
1:K:350:ILE:HG12	1:L:410:ALA:HB1	2.01	0.43
1:K:643:ILE:O	1:K:647:GLU:HG3	2.19	0.43
1:L:568:THR:CG2	1:N:617:LEU:CD1	2.97	0.43
1:M:115:SER:N	1:M:116:PRO:HD2	2.33	0.43
1:M:225:LYS:HA	1:M:228:ILE:HB	1.99	0.43
1:M:299:PRO:HG2	1:M:302:ILE:CD1	2.48	0.43
1:M:350:ILE:HG12	1:N:410:ALA:HB1	2.01	0.43
1:M:507:VAL:HG13	1:M:507:VAL:O	2.19	0.43
1:M:513:ALA:HB1	1:N:457:PRO:HD2	2.00	0.43
1:N:212:ILE:CG2	1:N:228:ILE:HG12	2.46	0.43
1:N:217:ASP:O	1:N:221:ARG:N	2.51	0.43
1:N:517:ARG:HD2	1:O:456:VAL:CG1	2.46	0.43
1:N:608:LEU:CD2	1:N:625:VAL:CG1	2.94	0.43
1:O:101:THR:HA	1:O:142:THR:HA	2.00	0.43
1:O:170:GLU:C	1:O:171:LEU:HD12	2.38	0.43
1:O:594:GLY:O	1:O:595:ILE:C	2.57	0.43
1:O:631:GLU:O	1:O:632:ASP:HB3	2.19	0.43
1:A:101:THR:HA	1:A:142:THR:HA	2.00	0.43
1:A:104:VAL:HG21	1:A:156:LYS:HE2	1.99	0.43
1:A:156:LYS:HA	1:A:159:ASP:HB3	1.99	0.43
1:A:157:ARG:C	1:B:140:LEU:HD11	2.39	0.43
1:A:299:PRO:HG2	1:A:302:ILE:CD1	2.48	0.43
1:A:339:VAL:HG13	1:A:423:ILE:HG12	2.01	0.43
1:B:261:VAL:HG13	1:C:241:ASN:ND2	2.31	0.43
1:B:326:ILE:HG12	1:B:502:GLN:NE2	2.34	0.43
1:B:339:VAL:HG13	1:B:423:ILE:HG12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:513:ALA:HB1	1:C:457:PRO:HD2	2.01	0.43
1:B:529:VAL:HG12	1:B:530:GLN:N	2.34	0.43
1:B:608:LEU:HD23	1:B:625:VAL:CG1	2.49	0.43
1:C:339:VAL:HG13	1:C:423:ILE:HG12	2.01	0.43
1:C:483:LYS:HD3	1:C:503:GLU:OE1	2.19	0.43
1:C:513:ALA:CB	1:D:457:PRO:HD2	2.49	0.43
1:D:339:VAL:HG13	1:D:423:ILE:HG12	2.01	0.43
1:E:115:SER:N	1:E:116:PRO:HD2	2.33	0.43
1:E:315:ILE:HD11	1:F:291:THR:HG23	2.00	0.43
1:F:108:ASN:ND2	1:G:134:ASP:CG	2.72	0.43
1:F:217:ASP:O	1:F:221:ARG:N	2.52	0.43
1:F:359:ILE:HD13	1:F:422:LEU:CB	2.49	0.43
1:F:458:VAL:HG21	1:F:478:LYS:HD3	2.00	0.43
1:F:507:VAL:O	1:F:507:VAL:HG13	2.19	0.43
1:F:523:LEU:HD13	1:G:450:PHE:CD1	2.45	0.43
1:G:139:ILE:HG21	1:G:155:ILE:HG21	2.00	0.43
1:G:299:PRO:HG2	1:G:302:ILE:CD1	2.48	0.43
1:G:362:VAL:HG21	1:G:422:LEU:CD1	2.49	0.43
1:G:523:LEU:HD13	1:H:450:PHE:CD1	2.45	0.43
1:G:529:VAL:HG12	1:G:530:GLN:N	2.34	0.43
1:H:498:LEU:HD13	1:H:581:ILE:CD1	2.49	0.43
1:H:594:GLY:O	1:H:595:ILE:C	2.57	0.43
1:H:596:THR:HG22	1:H:597:GLN:H	1.81	0.43
1:I:254:LEU:HD23	1:I:294:LEU:CD2	2.44	0.43
1:I:451:ILE:HD12	1:I:483:LYS:HE3	1.99	0.43
1:I:513:ALA:HB1	1:J:457:PRO:HD2	2.00	0.43
1:J:121:LEU:O	1:J:121:LEU:HD23	2.19	0.43
1:J:299:PRO:CD	1:J:302:ILE:HD12	2.48	0.43
1:K:261:VAL:CG1	1:L:241:ASN:ND2	2.82	0.43
1:K:359:ILE:HD13	1:K:422:LEU:HB3	2.01	0.43
1:K:513:ALA:CB	1:L:457:PRO:HD2	2.48	0.43
1:K:608:LEU:CD2	1:K:625:VAL:CG1	2.94	0.43
1:L:457:PRO:HA	1:L:477:ARG:HA	2.00	0.43
1:L:491:ASN:HB2	1:L:495:SER:O	2.19	0.43
1:M:170:GLU:C	1:M:171:LEU:HD12	2.38	0.43
1:M:175:SER:O	1:M:178:GLU:HB3	2.19	0.43
1:M:308:GLU:O	1:M:308:GLU:HG2	2.17	0.43
1:M:326:ILE:HG12	1:M:502:GLN:NE2	2.33	0.43
1:M:359:ILE:HD13	1:M:422:LEU:HB3	2.01	0.43
1:N:104:VAL:HG21	1:N:156:LYS:HE2	1.99	0.43
1:N:523:LEU:HD13	1:O:450:PHE:CD1	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:104:VAL:HG21	1:O:156:LYS:HE2	1.99	0.43
1:O:121:LEU:HD23	1:O:121:LEU:O	2.19	0.43
1:O:214:ILE:CG1	1:O:224:LEU:HD23	2.47	0.43
1:O:225:LYS:HA	1:O:228:ILE:HB	1.99	0.43
1:O:258:LEU:O	1:O:262:SER:HB3	2.18	0.43
1:A:227:LEU:HD23	1:A:230:GLN:HG3	2.00	0.43
1:A:261:VAL:HG13	1:B:241:ASN:ND2	2.31	0.43
1:A:359:ILE:HD13	1:A:422:LEU:CB	2.49	0.43
1:A:643:ILE:HD12	1:A:643:ILE:HA	1.78	0.43
1:B:258:LEU:O	1:B:262:SER:HB3	2.18	0.43
1:B:285:ILE:HG12	1:B:296:LEU:HD23	1.97	0.43
1:C:529:VAL:HG12	1:C:530:GLN:N	2.34	0.43
1:D:119:ARG:HA	1:D:122:ILE:HB	2.00	0.43
1:D:139:ILE:HG21	1:D:155:ILE:HG21	2.00	0.43
1:D:227:LEU:HD23	1:D:230:GLN:HG3	2.00	0.43
1:E:435:LEU:HD23	1:E:435:LEU:C	2.39	0.43
1:E:458:VAL:HG21	1:E:478:LYS:HD3	2.01	0.43
1:E:483:LYS:HD3	1:E:503:GLU:OE1	2.19	0.43
1:E:529:VAL:HG12	1:E:530:GLN:N	2.34	0.43
1:E:608:LEU:HD23	1:E:625:VAL:CG1	2.49	0.43
1:F:177:ALA:O	1:F:180:VAL:HB	2.18	0.43
1:F:258:LEU:HD11	1:F:310:ILE:CD1	2.48	0.43
1:G:339:VAL:HG13	1:G:423:ILE:HG12	2.01	0.43
1:G:457:PRO:HA	1:G:477:ARG:HA	2.00	0.43
1:H:254:LEU:HD23	1:H:294:LEU:CD2	2.44	0.43
1:H:286:ALA:O	1:H:295:VAL:N	2.40	0.43
1:H:362:VAL:HG21	1:H:422:LEU:CD1	2.49	0.43
1:I:350:ILE:HG12	1:J:410:ALA:CB	2.48	0.43
1:J:299:PRO:HG2	1:J:302:ILE:CD1	2.48	0.43
1:J:444:ASP:CG	1:J:490:ILE:CG1	2.86	0.43
1:K:440:ILE:HD12	1:K:440:ILE:HA	1.80	0.43
1:K:585:ILE:HG22	1:K:587:ARG:HG3	2.01	0.43
1:K:594:GLY:O	1:K:595:ILE:C	2.57	0.43
1:L:286:ALA:O	1:L:295:VAL:N	2.40	0.43
1:L:442:VAL:HG11	1:L:488:PRO:CG	2.21	0.43
1:M:214:ILE:CD1	1:M:220:VAL:CG1	2.48	0.43
1:M:612:GLU:CG	1:N:642:PHE:HE2	2.28	0.43
1:M:643:ILE:O	1:M:647:GLU:HG3	2.19	0.43
1:N:227:LEU:HD23	1:N:230:GLN:HG3	1.99	0.43
1:N:265:LEU:HD22	1:N:302:ILE:CG1	2.47	0.43
1:N:435:LEU:HD23	1:N:435:LEU:C	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:121:LEU:HD23	1:A:121:LEU:O	2.19	0.43
1:A:326:ILE:HG12	1:A:502:GLN:NE2	2.33	0.43
1:A:350:ILE:HG12	1:B:410:ALA:CB	2.49	0.43
1:A:529:VAL:HG12	1:A:530:GLN:N	2.34	0.43
1:A:585:ILE:HG22	1:A:587:ARG:HG3	2.01	0.43
1:B:115:SER:N	1:B:116:PRO:HD2	2.34	0.43
1:B:227:LEU:HD23	1:B:230:GLN:HG3	2.00	0.43
1:B:265:LEU:HD23	1:B:302:ILE:HG12	1.96	0.43
1:B:451:ILE:HD12	1:B:483:LYS:HE3	1.99	0.43
1:C:315:ILE:HD11	1:D:291:THR:HG23	2.00	0.43
1:D:458:VAL:HG21	1:D:478:LYS:HD3	2.01	0.43
1:D:529:VAL:HG12	1:D:530:GLN:N	2.34	0.43
1:E:299:PRO:HG2	1:E:302:ILE:CD1	2.48	0.43
1:E:308:GLU:O	1:E:308:GLU:HG2	2.17	0.43
1:E:373:THR:HG23	1:E:373:THR:O	2.19	0.43
1:E:457:PRO:HA	1:E:477:ARG:HA	2.00	0.43
1:E:484:LEU:HD11	1:E:500:ILE:HD11	2.01	0.43
1:E:523:LEU:CD1	1:F:440:ILE:HD11	2.36	0.43
1:F:139:ILE:HG21	1:F:155:ILE:HG21	2.00	0.43
1:F:299:PRO:HG2	1:F:302:ILE:CD1	2.48	0.43
1:F:585:ILE:HG22	1:F:587:ARG:HG3	2.01	0.43
1:G:175:SER:O	1:G:178:GLU:HB3	2.19	0.43
1:G:507:VAL:HG13	1:G:507:VAL:O	2.19	0.43
1:G:594:GLY:O	1:G:595:ILE:C	2.57	0.43
1:G:618:MET:HE2	1:G:618:MET:HB3	1.86	0.43
1:H:101:THR:HA	1:H:142:THR:HA	2.00	0.43
1:I:175:SER:O	1:I:178:GLU:HB3	2.19	0.43
1:I:552:VAL:O	1:I:553:PRO:C	2.57	0.43
1:J:139:ILE:HD13	1:J:155:ILE:CG2	2.44	0.43
1:J:261:VAL:CG1	1:K:241:ASN:HD22	2.29	0.43
1:J:359:ILE:HD13	1:J:422:LEU:HB3	2.01	0.43
1:K:175:SER:O	1:K:178:GLU:HB3	2.19	0.43
1:K:214:ILE:CG1	1:K:224:LEU:HD23	2.47	0.43
1:K:258:LEU:CB	1:K:285:ILE:CD1	2.93	0.43
1:K:321:LEU:N	1:K:584:THR:O	2.42	0.43
1:K:608:LEU:HD23	1:K:625:VAL:CG1	2.49	0.43
1:K:631:GLU:O	1:K:632:ASP:HB3	2.19	0.43
1:L:218:PRO:HA	1:L:221:ARG:CB	2.45	0.43
1:L:362:VAL:HG21	1:L:422:LEU:CD1	2.49	0.43
1:L:529:VAL:HG12	1:L:530:GLN:N	2.34	0.43
1:L:594:GLY:O	1:L:595:ILE:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:233:VAL:N	1:N:208:ARG:NH2	2.66	0.43
1:M:553:PRO:HB2	1:M:554:LEU:H	1.65	0.43
1:M:585:ILE:HG22	1:M:587:ARG:HG3	2.00	0.43
1:M:597:GLN:HG3	1:M:629:PHE:CD2	2.54	0.43
1:N:631:GLU:O	1:N:632:ASP:HB3	2.19	0.43
1:O:373:THR:HG23	1:O:373:THR:O	2.19	0.43
1:O:458:VAL:HG21	1:O:478:LYS:HD3	2.01	0.43
1:O:643:ILE:O	1:O:647:GLU:HG3	2.19	0.43
1:B:233:VAL:N	1:C:208:ARG:NH2	2.67	0.42
1:B:261:VAL:CG1	1:C:241:ASN:ND2	2.82	0.42
1:B:313:LEU:HD23	1:B:313:LEU:HA	1.87	0.42
1:B:442:VAL:HG13	1:B:488:PRO:HG2	2.01	0.42
1:C:169:VAL:HG21	1:C:228:ILE:CD1	2.35	0.42
1:C:217:ASP:O	1:C:221:ARG:N	2.51	0.42
1:C:261:VAL:HG13	1:D:241:ASN:ND2	2.31	0.42
1:C:373:THR:O	1:C:373:THR:HG23	2.19	0.42
1:C:507:VAL:O	1:C:507:VAL:HG13	2.19	0.42
1:C:553:PRO:HB2	1:C:554:LEU:H	1.65	0.42
1:D:299:PRO:HG2	1:D:302:ILE:CD1	2.48	0.42
1:D:299:PRO:CD	1:D:302:ILE:HD12	2.48	0.42
1:D:315:ILE:HD11	1:E:291:THR:HG23	2.01	0.42
1:D:568:THR:CG2	1:F:617:LEU:CD1	2.97	0.42
1:D:594:GLY:O	1:D:595:ILE:C	2.57	0.42
1:E:139:ILE:HG21	1:E:155:ILE:HG21	2.00	0.42
1:E:217:ASP:O	1:E:221:ARG:N	2.51	0.42
1:F:175:SER:O	1:F:178:GLU:HB3	2.19	0.42
1:F:258:LEU:O	1:F:262:SER:HB3	2.18	0.42
1:F:442:VAL:HG13	1:F:488:PRO:HG2	2.01	0.42
1:F:457:PRO:HA	1:F:477:ARG:HA	2.00	0.42
1:F:513:ALA:HB1	1:G:457:PRO:HD2	2.01	0.42
1:F:568:THR:CG2	1:H:617:LEU:CD1	2.97	0.42
1:F:631:GLU:O	1:F:632:ASP:HB3	2.19	0.42
1:G:119:ARG:HA	1:G:122:ILE:HB	2.00	0.42
1:G:258:LEU:HD11	1:G:310:ILE:CD1	2.48	0.42
1:G:608:LEU:HD23	1:G:625:VAL:CG1	2.49	0.42
1:H:119:ARG:HA	1:H:122:ILE:HB	2.00	0.42
1:H:322:ILE:HD12	1:H:498:LEU:HD21	1.98	0.42
1:H:326:ILE:HG12	1:H:502:GLN:NE2	2.33	0.42
1:H:359:ILE:HD13	1:H:422:LEU:CB	2.49	0.42
1:H:484:LEU:HD11	1:H:500:ILE:HD11	2.01	0.42
1:I:104:VAL:HG21	1:I:156:LYS:HE2	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:362:VAL:HG21	1:I:422:LEU:CD1	2.49	0.42
1:I:442:VAL:HG13	1:I:488:PRO:HG2	2.01	0.42
1:J:209:THR:HG23	1:J:211:SER:N	2.33	0.42
1:K:104:VAL:HG21	1:K:156:LYS:HE2	1.99	0.42
1:K:373:THR:O	1:K:373:THR:HG23	2.19	0.42
1:K:483:LYS:HD3	1:K:503:GLU:OE1	2.19	0.42
1:K:568:THR:CG2	1:M:617:LEU:CD1	2.97	0.42
1:L:350:ILE:HG12	1:M:410:ALA:HB1	2.01	0.42
1:M:373:THR:HG23	1:M:373:THR:O	2.19	0.42
1:N:101:THR:HA	1:N:142:THR:HA	2.00	0.42
1:N:121:LEU:HD23	1:N:121:LEU:O	2.19	0.42
1:N:261:VAL:CG1	1:O:241:ASN:ND2	2.82	0.42
1:N:359:ILE:HD13	1:N:422:LEU:HB3	2.01	0.42
1:O:265:LEU:HD22	1:O:302:ILE:CG1	2.47	0.42
1:A:108:ASN:ND2	1:B:134:ASP:OD2	2.52	0.42
1:A:513:ALA:CB	1:B:457:PRO:HD2	2.49	0.42
1:B:101:THR:HA	1:B:142:THR:HA	2.00	0.42
1:B:108:ASN:ND2	1:C:134:ASP:CG	2.73	0.42
1:B:217:ASP:O	1:B:221:ARG:N	2.51	0.42
1:B:299:PRO:CD	1:B:302:ILE:HD12	2.48	0.42
1:C:497:GLN:HG3	1:D:443:MET:HE2	2.00	0.42
1:D:115:SER:N	1:D:116:PRO:HD2	2.33	0.42
1:D:175:SER:O	1:D:178:GLU:HB3	2.19	0.42
1:D:459:ILE:CG2	1:D:460:THR:N	2.82	0.42
1:D:608:LEU:HD23	1:D:625:VAL:CG1	2.49	0.42
1:E:258:LEU:HD11	1:E:310:ILE:CD1	2.48	0.42
1:E:314:ASP:O	1:E:314:ASP:OD1	2.37	0.42
1:E:459:ILE:CG2	1:E:460:THR:N	2.82	0.42
1:E:585:ILE:HG22	1:E:587:ARG:HG3	2.00	0.42
1:F:119:ARG:HA	1:F:122:ILE:HB	2.00	0.42
1:F:484:LEU:HD11	1:F:500:ILE:HD11	2.01	0.42
1:G:261:VAL:HG13	1:H:241:ASN:ND2	2.32	0.42
1:H:104:VAL:HG21	1:H:156:LYS:HE2	2.00	0.42
1:H:339:VAL:HG13	1:H:423:ILE:HG12	2.01	0.42
1:H:373:THR:HG23	1:H:373:THR:O	2.19	0.42
1:I:368:GLU:CB	1:I:399:THR:HG21	2.48	0.42
1:J:108:ASN:ND2	1:K:134:ASP:CG	2.73	0.42
1:J:322:ILE:HD12	1:J:498:LEU:HD21	1.98	0.42
1:J:597:GLN:HG3	1:J:629:PHE:CD2	2.54	0.42
1:K:362:VAL:HG21	1:K:422:LEU:CD1	2.49	0.42
1:K:507:VAL:O	1:K:507:VAL:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:597:GLN:HG3	1:K:629:PHE:CD2	2.55	0.42
1:L:261:VAL:CG1	1:M:241:ASN:ND2	2.82	0.42
1:L:326:ILE:HG12	1:L:502:GLN:NE2	2.33	0.42
1:L:585:ILE:HG22	1:L:587:ARG:HG3	2.01	0.42
1:M:101:THR:HA	1:M:142:THR:HA	2.00	0.42
1:M:483:LYS:HD3	1:M:503:GLU:OE1	2.19	0.42
1:M:491:ASN:HB2	1:M:495:SER:O	2.19	0.42
1:N:219:LYS:HZ2	1:O:105:ALA:HB2	1.83	0.42
1:N:322:ILE:HD12	1:N:498:LEU:HD21	1.98	0.42
1:N:350:ILE:HG12	1:O:410:ALA:HB1	2.01	0.42
1:N:594:GLY:O	1:N:595:ILE:C	2.57	0.42
1:N:597:GLN:HG3	1:N:629:PHE:CD2	2.54	0.42
1:O:167:GLU:HG2	1:O:214:ILE:CB	2.41	0.42
1:O:227:LEU:HD23	1:O:230:GLN:HG3	2.00	0.42
1:A:217:ASP:O	1:A:221:ARG:N	2.51	0.42
1:A:457:PRO:HA	1:A:477:ARG:HA	2.00	0.42
1:B:373:THR:HG23	1:B:373:THR:O	2.19	0.42
1:C:261:VAL:CG1	1:D:241:ASN:ND2	2.82	0.42
1:C:362:VAL:HG21	1:C:422:LEU:CD1	2.49	0.42
1:D:217:ASP:O	1:D:221:ARG:N	2.51	0.42
1:D:484:LEU:HD11	1:D:500:ILE:HD11	2.01	0.42
1:F:315:ILE:HD11	1:G:291:THR:HG23	2.00	0.42
1:G:261:VAL:CG1	1:H:241:ASN:ND2	2.83	0.42
1:G:373:THR:HG23	1:G:373:THR:O	2.19	0.42
1:G:552:VAL:O	1:G:553:PRO:C	2.57	0.42
1:G:568:THR:CG2	1:I:617:LEU:CD1	2.97	0.42
1:G:631:GLU:O	1:G:632:ASP:HB3	2.19	0.42
1:H:175:SER:O	1:H:178:GLU:HB3	2.19	0.42
1:H:223:ARG:NE	1:H:226:ARG:HH22	2.08	0.42
1:H:568:THR:CG2	1:J:617:LEU:CD1	2.97	0.42
1:H:608:LEU:HD23	1:H:625:VAL:CG1	2.50	0.42
1:I:119:ARG:HA	1:I:122:ILE:HB	2.00	0.42
1:I:366:LEU:HD23	1:I:366:LEU:HA	1.85	0.42
1:I:498:LEU:HD13	1:I:581:ILE:CD1	2.50	0.42
1:I:585:ILE:HG22	1:I:587:ARG:HG3	2.00	0.42
1:J:104:VAL:HG21	1:J:156:LYS:HE2	2.00	0.42
1:J:258:LEU:HD11	1:J:310:ILE:CD1	2.48	0.42
1:J:507:VAL:HG13	1:J:507:VAL:O	2.19	0.42
1:J:608:LEU:HD23	1:J:625:VAL:CG1	2.49	0.42
1:K:121:LEU:O	1:K:121:LEU:HD23	2.19	0.42
1:K:138:ILE:CG2	1:K:139:ILE:N	2.71	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:552:VAL:O	1:K:553:PRO:C	2.57	0.42
1:L:108:ASN:ND2	1:M:134:ASP:OD2	2.53	0.42
1:L:175:SER:O	1:L:178:GLU:HB3	2.19	0.42
1:L:597:GLN:HG3	1:L:629:PHE:CD2	2.55	0.42
1:M:104:VAL:HG21	1:M:156:LYS:HE2	2.00	0.42
1:M:202:LYS:O	1:M:203:LEU:HD12	2.17	0.42
1:N:483:LYS:HD3	1:N:503:GLU:OE1	2.19	0.42
1:O:217:ASP:O	1:O:221:ARG:N	2.51	0.42
1:O:258:LEU:HD11	1:O:310:ILE:CD1	2.48	0.42
1:O:597:GLN:HG3	1:O:629:PHE:CD2	2.55	0.42
1:A:291:THR:HG23	1:O:315:ILE:HD11	2.00	0.42
1:A:321:LEU:N	1:A:584:THR:O	2.42	0.42
1:A:568:THR:CG2	1:C:617:LEU:CD1	2.97	0.42
1:A:594:GLY:O	1:A:595:ILE:C	2.57	0.42
1:A:617:LEU:CD1	1:N:568:THR:CG2	2.97	0.42
1:B:261:VAL:CG1	1:C:241:ASN:HD22	2.29	0.42
1:B:568:THR:CG2	1:D:617:LEU:CD1	2.97	0.42
1:C:442:VAL:HG13	1:C:488:PRO:HG2	2.01	0.42
1:D:245:TYR:CE1	1:D:291:THR:HG21	2.55	0.42
1:D:483:LYS:HD3	1:D:503:GLU:OE1	2.19	0.42
1:E:202:LYS:O	1:E:203:LEU:HD12	2.17	0.42
1:E:299:PRO:CD	1:E:302:ILE:HD12	2.48	0.42
1:F:339:VAL:HG13	1:F:423:ILE:HG12	2.01	0.42
1:F:552:VAL:O	1:F:553:PRO:C	2.57	0.42
1:G:608:LEU:CD2	1:G:625:VAL:CG1	2.94	0.42
1:G:643:ILE:O	1:G:647:GLU:HG3	2.19	0.42
1:H:214:ILE:CG1	1:H:224:LEU:HD23	2.47	0.42
1:H:258:LEU:HD11	1:H:310:ILE:CD1	2.48	0.42
1:H:258:LEU:HD11	1:H:310:ILE:HD11	2.01	0.42
1:H:314:ASP:O	1:H:314:ASP:OD1	2.37	0.42
1:H:359:ILE:HD13	1:H:422:LEU:HB3	2.01	0.42
1:H:457:PRO:HA	1:H:477:ARG:HA	2.00	0.42
1:H:529:VAL:HG12	1:H:530:GLN:N	2.34	0.42
1:H:643:ILE:O	1:H:647:GLU:HG3	2.19	0.42
1:I:594:GLY:O	1:I:595:ILE:C	2.57	0.42
1:I:609:TYR:C	1:I:611:ALA:N	2.73	0.42
1:K:315:ILE:HD11	1:L:291:THR:HG23	2.01	0.42
1:K:355:THR:HG23	1:K:567:SER:HG	1.85	0.42
1:K:435:LEU:HD23	1:K:435:LEU:C	2.39	0.42
1:K:458:VAL:HG21	1:K:478:LYS:HD3	2.00	0.42
1:K:491:ASN:HB2	1:K:495:SER:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:529:VAL:HG12	1:K:530:GLN:N	2.34	0.42
1:N:618:MET:HE2	1:N:618:MET:HB3	1.88	0.42
1:O:139:ILE:HG21	1:O:155:ILE:HG21	2.00	0.42
1:O:258:LEU:CB	1:O:285:ILE:CD1	2.93	0.42
1:O:354:ASN:OD1	1:O:354:ASN:C	2.58	0.42
1:A:265:LEU:HD22	1:A:302:ILE:CG1	2.47	0.42
1:A:459:ILE:CG2	1:A:460:THR:N	2.82	0.42
1:A:483:LYS:HD3	1:A:503:GLU:OE1	2.19	0.42
1:A:498:LEU:HD13	1:A:581:ILE:CD1	2.50	0.42
1:B:121:LEU:O	1:B:121:LEU:HD23	2.19	0.42
1:C:568:THR:CG2	1:E:617:LEU:CD1	2.98	0.42
1:D:585:ILE:HG22	1:D:587:ARG:HG3	2.01	0.42
1:E:108:ASN:ND2	1:F:134:ASP:OD2	2.52	0.42
1:E:121:LEU:O	1:E:121:LEU:HD23	2.19	0.42
1:E:339:VAL:HG13	1:E:423:ILE:HG12	2.01	0.42
1:F:359:ILE:HD13	1:F:422:LEU:HB3	2.00	0.42
1:F:368:GLU:CB	1:F:399:THR:HG21	2.48	0.42
1:G:246:LEU:HD22	1:G:251:ALA:CB	2.40	0.42
1:G:459:ILE:CG2	1:G:460:THR:N	2.82	0.42
1:G:484:LEU:HD11	1:G:500:ILE:HD11	2.02	0.42
1:G:491:ASN:HB2	1:G:495:SER:O	2.19	0.42
1:G:609:TYR:C	1:G:611:ALA:N	2.73	0.42
1:H:442:VAL:HG13	1:H:488:PRO:HG2	2.01	0.42
1:I:484:LEU:HD11	1:I:500:ILE:HD11	2.01	0.42
1:I:529:VAL:HG12	1:I:530:GLN:N	2.34	0.42
1:I:568:THR:CG2	1:K:617:LEU:CD1	2.97	0.42
1:J:286:ALA:O	1:J:295:VAL:N	2.40	0.42
1:J:362:VAL:HG21	1:J:422:LEU:CD1	2.49	0.42
1:J:366:LEU:HD23	1:J:366:LEU:HA	1.85	0.42
1:K:286:ALA:O	1:K:295:VAL:N	2.40	0.42
1:K:359:ILE:HD13	1:K:422:LEU:CB	2.49	0.42
1:L:483:LYS:HD3	1:L:503:GLU:OE1	2.19	0.42
1:M:631:GLU:O	1:M:632:ASP:HB3	2.19	0.42
1:N:491:ASN:HB2	1:N:495:SER:O	2.19	0.42
1:N:498:LEU:HD13	1:N:581:ILE:CD1	2.49	0.42
1:N:513:ALA:CB	1:O:457:PRO:HD2	2.49	0.42
1:O:212:ILE:CG2	1:O:228:ILE:HG12	2.46	0.42
1:O:359:ILE:HD13	1:O:422:LEU:HB3	2.01	0.42
1:A:106:VAL:HG13	1:A:158:VAL:O	2.20	0.42
1:A:175:SER:O	1:A:178:GLU:HB3	2.19	0.42
1:A:315:ILE:HD11	1:B:291:THR:HG23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:440:ILE:HD12	1:A:440:ILE:HA	1.81	0.42
1:A:597:GLN:HG3	1:A:629:PHE:CD2	2.55	0.42
1:B:245:TYR:CE1	1:B:291:THR:HG21	2.55	0.42
1:B:498:LEU:HD13	1:B:581:ILE:CD1	2.50	0.42
1:B:617:LEU:CD1	1:O:568:THR:CG2	2.97	0.42
1:C:169:VAL:CG1	1:C:228:ILE:CG2	2.85	0.42
1:C:491:ASN:HB2	1:C:495:SER:O	2.19	0.42
1:C:585:ILE:HG22	1:C:587:ARG:HG3	2.01	0.42
1:D:258:LEU:HD11	1:D:310:ILE:CD1	2.48	0.42
1:D:261:VAL:CG1	1:E:241:ASN:ND2	2.82	0.42
1:D:350:ILE:HG12	1:E:410:ALA:HB1	2.01	0.42
1:E:227:LEU:HD23	1:E:230:GLN:HG3	2.00	0.42
1:E:523:LEU:HD13	1:F:450:PHE:CD1	2.46	0.42
1:E:594:GLY:O	1:E:595:ILE:C	2.57	0.42
1:F:491:ASN:HB2	1:F:495:SER:O	2.19	0.42
1:F:609:TYR:C	1:F:611:ALA:N	2.73	0.42
1:G:517:ARG:HD2	1:H:456:VAL:CG1	2.46	0.42
1:H:121:LEU:O	1:H:121:LEU:HD23	2.19	0.42
1:H:459:ILE:CG2	1:H:460:THR:N	2.82	0.42
1:H:552:VAL:O	1:H:553:PRO:C	2.57	0.42
1:I:298:ALA:HB3	1:I:303:MET:HE2	2.00	0.42
1:I:350:ILE:HG12	1:J:410:ALA:HB1	2.01	0.42
1:I:544:ARG:HH11	1:J:434:ILE:HD13	1.85	0.42
1:J:169:VAL:HG21	1:J:228:ILE:CD1	2.35	0.42
1:J:233:VAL:N	1:K:208:ARG:NH2	2.66	0.42
1:J:261:VAL:CG1	1:K:241:ASN:ND2	2.82	0.42
1:J:339:VAL:HG13	1:J:423:ILE:HG12	2.01	0.42
1:J:350:ILE:HG12	1:K:410:ALA:HB1	2.01	0.42
1:J:458:VAL:HG21	1:J:478:LYS:HD3	2.00	0.42
1:J:594:GLY:O	1:J:595:ILE:C	2.58	0.42
1:K:442:VAL:HG13	1:K:488:PRO:HG2	2.02	0.42
1:K:609:TYR:C	1:K:611:ALA:N	2.73	0.42
1:L:314:ASP:OD1	1:L:314:ASP:O	2.37	0.42
1:L:315:ILE:HD11	1:M:291:THR:HG23	2.00	0.42
1:L:322:ILE:HD12	1:L:498:LEU:HD21	1.98	0.42
1:L:480:VAL:O	1:L:480:VAL:CG2	2.61	0.42
1:L:513:ALA:CB	1:M:457:PRO:HD2	2.48	0.42
1:L:631:GLU:O	1:L:632:ASP:HB3	2.19	0.42
1:M:121:LEU:O	1:M:121:LEU:HD23	2.19	0.42
1:M:355:THR:HG23	1:M:567:SER:HG	1.85	0.42
1:M:417:GLY:O	1:M:418:ASP:CB	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:498:LEU:HD13	1:M:581:ILE:CD1	2.50	0.42
1:M:529:VAL:HG12	1:M:530:GLN:N	2.34	0.42
1:M:608:LEU:HD23	1:M:625:VAL:CG1	2.49	0.42
1:N:115:SER:N	1:N:116:PRO:HD2	2.33	0.42
1:O:169:VAL:HG21	1:O:228:ILE:CD1	2.35	0.42
1:O:175:SER:O	1:O:178:GLU:HB3	2.19	0.42
1:A:115:SER:N	1:A:116:PRO:HD2	2.34	0.42
1:A:134:ASP:CG	1:O:108:ASN:ND2	2.73	0.42
1:A:139:ILE:HG21	1:A:155:ILE:HG21	2.00	0.42
1:A:241:ASN:ND2	1:O:261:VAL:CG1	2.83	0.42
1:A:241:ASN:ND2	1:O:261:VAL:HG13	2.33	0.42
1:A:643:ILE:O	1:A:647:GLU:HG3	2.19	0.42
1:B:206:ASP:O	1:B:210:ASN:HA	2.20	0.42
1:B:258:LEU:HD11	1:B:310:ILE:CD1	2.49	0.42
1:C:121:LEU:O	1:C:121:LEU:HD23	2.19	0.42
1:C:498:LEU:HD13	1:C:581:ILE:CD1	2.50	0.42
1:D:139:ILE:HD13	1:D:155:ILE:CG2	2.45	0.42
1:D:491:ASN:HB2	1:D:495:SER:O	2.19	0.42
1:D:609:TYR:C	1:D:611:ALA:N	2.73	0.42
1:E:245:TYR:CE1	1:E:291:THR:HG21	2.55	0.42
1:E:285:ILE:HG12	1:E:296:LEU:HD23	1.97	0.42
1:E:350:ILE:HG12	1:F:410:ALA:HB1	2.01	0.42
1:E:513:ALA:CB	1:F:457:PRO:HD2	2.49	0.42
1:F:227:LEU:HD23	1:F:230:GLN:HG3	2.00	0.42
1:G:354:ASN:OD1	1:G:354:ASN:C	2.58	0.42
1:H:212:ILE:CG2	1:H:228:ILE:HG12	2.46	0.42
1:H:368:GLU:CB	1:H:399:THR:HG21	2.49	0.42
1:I:373:THR:HG23	1:I:373:THR:O	2.20	0.42
1:I:459:ILE:CG2	1:I:460:THR:N	2.82	0.42
1:I:597:GLN:HG3	1:I:629:PHE:CD2	2.55	0.42
1:J:368:GLU:CB	1:J:399:THR:HG21	2.48	0.42
1:J:498:LEU:HD13	1:J:581:ILE:CD1	2.50	0.42
1:J:529:VAL:HG12	1:J:530:GLN:N	2.34	0.42
1:K:368:GLU:CB	1:K:399:THR:HG21	2.48	0.42
1:L:104:VAL:HG21	1:L:156:LYS:HE2	2.00	0.42
1:L:214:ILE:CG1	1:L:224:LEU:HD23	2.47	0.42
1:L:498:LEU:HD13	1:L:581:ILE:CD1	2.50	0.42
1:M:261:VAL:CG1	1:N:241:ASN:ND2	2.82	0.42
1:M:314:ASP:O	1:M:314:ASP:OD1	2.37	0.42
1:M:459:ILE:CG2	1:M:460:THR:N	2.82	0.42
1:M:643:ILE:HD12	1:M:643:ILE:HA	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:108:ASN:ND2	1:O:134:ASP:CG	2.73	0.42
1:N:339:VAL:HG13	1:N:423:ILE:HG12	2.01	0.42
1:N:596:THR:HG22	1:N:597:GLN:H	1.81	0.42
1:O:491:ASN:HB2	1:O:495:SER:O	2.19	0.42
1:O:529:VAL:HG12	1:O:530:GLN:N	2.34	0.42
1:O:552:VAL:CG2	1:O:565:PHE:CB	2.92	0.42
1:A:314:ASP:OD1	1:A:314:ASP:O	2.37	0.42
1:A:410:ALA:HB1	1:O:350:ILE:HG12	2.01	0.42
1:A:517:ARG:HD2	1:B:456:VAL:CG1	2.45	0.42
1:B:507:VAL:HG13	1:B:507:VAL:O	2.19	0.42
1:B:513:ALA:CB	1:C:457:PRO:HD2	2.50	0.42
1:B:597:GLN:HG3	1:B:629:PHE:CD2	2.55	0.42
1:B:640:GLN:NE2	1:B:643:ILE:HG21	2.35	0.42
1:C:245:TYR:CE1	1:C:291:THR:HG21	2.55	0.42
1:C:484:LEU:HD11	1:C:500:ILE:HD11	2.01	0.42
1:C:594:GLY:O	1:C:595:ILE:C	2.58	0.42
1:E:552:VAL:O	1:E:553:PRO:C	2.57	0.42
1:F:121:LEU:HD23	1:F:121:LEU:O	2.19	0.42
1:F:245:TYR:CE1	1:F:291:THR:HG21	2.55	0.42
1:F:459:ILE:CG2	1:F:460:THR:N	2.82	0.42
1:G:121:LEU:HD23	1:G:121:LEU:O	2.19	0.42
1:G:171:LEU:HD13	1:G:212:ILE:HB	2.02	0.42
1:G:359:ILE:HD13	1:G:422:LEU:HB3	2.01	0.42
1:G:442:VAL:HG13	1:G:488:PRO:HG2	2.01	0.42
1:G:585:ILE:HG22	1:G:587:ARG:HG3	2.01	0.42
1:H:206:ASP:O	1:H:210:ASN:HA	2.20	0.42
1:H:245:TYR:CE1	1:H:291:THR:HG21	2.55	0.42
1:I:517:ARG:HD2	1:J:456:VAL:CG1	2.46	0.42
1:J:169:VAL:CG2	1:J:228:ILE:CD1	2.97	0.42
1:J:314:ASP:OD1	1:J:314:ASP:O	2.38	0.42
1:J:431:ASN:OD1	1:J:431:ASN:C	2.58	0.42
1:J:442:VAL:HG13	1:J:488:PRO:HG2	2.01	0.42
1:J:484:LEU:HD11	1:J:500:ILE:HD11	2.01	0.42
1:J:491:ASN:HB2	1:J:495:SER:O	2.19	0.42
1:J:544:ARG:HH11	1:K:434:ILE:HD13	1.85	0.42
1:J:631:GLU:O	1:J:632:ASP:HB3	2.19	0.42
1:K:245:TYR:CE1	1:K:291:THR:HG21	2.55	0.42
1:L:245:TYR:CE1	1:L:291:THR:HG21	2.55	0.42
1:L:458:VAL:HG21	1:L:478:LYS:HD3	2.01	0.42
1:M:265:LEU:HD22	1:M:302:ILE:CG1	2.47	0.42
1:N:326:ILE:HG12	1:N:502:GLN:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:359:ILE:HD13	1:N:422:LEU:CB	2.49	0.42
1:N:459:ILE:CG2	1:N:460:THR:N	2.82	0.42
1:N:507:VAL:O	1:N:507:VAL:HG13	2.19	0.42
1:N:529:VAL:HG12	1:N:530:GLN:N	2.34	0.42
1:O:362:VAL:HG21	1:O:422:LEU:CD1	2.49	0.42
1:O:507:VAL:HG13	1:O:507:VAL:O	2.19	0.42
1:A:322:ILE:HD12	1:A:498:LEU:CD2	2.50	0.42
1:A:359:ILE:HD13	1:A:422:LEU:HB3	2.01	0.42
1:A:507:VAL:O	1:A:507:VAL:HG13	2.18	0.42
1:B:106:VAL:HG13	1:B:158:VAL:O	2.20	0.42
1:B:350:ILE:HG12	1:C:410:ALA:HB1	2.01	0.42
1:B:544:ARG:HH11	1:C:434:ILE:HD13	1.85	0.42
1:C:108:ASN:ND2	1:D:134:ASP:CG	2.73	0.42
1:C:169:VAL:CG2	1:C:228:ILE:CD1	2.97	0.42
1:C:544:ARG:HH11	1:D:434:ILE:HD13	1.85	0.42
1:C:615:LEU:HD23	1:C:615:LEU:HA	1.87	0.42
1:D:121:LEU:HD23	1:D:121:LEU:O	2.19	0.42
1:D:326:ILE:HG12	1:D:502:GLN:NE2	2.34	0.42
1:E:322:ILE:HD12	1:E:498:LEU:CD2	2.50	0.42
1:F:106:VAL:HG13	1:F:158:VAL:O	2.20	0.42
1:F:322:ILE:HD12	1:F:498:LEU:CD2	2.50	0.42
1:F:373:THR:HG23	1:F:373:THR:O	2.20	0.42
1:H:354:ASN:OD1	1:H:354:ASN:C	2.58	0.42
1:H:585:ILE:HG22	1:H:587:ARG:HG3	2.01	0.42
1:I:212:ILE:CG2	1:I:228:ILE:HG12	2.46	0.42
1:I:339:VAL:HG13	1:I:423:ILE:HG12	2.01	0.42
1:I:354:ASN:OD1	1:I:354:ASN:C	2.58	0.42
1:J:354:ASN:OD1	1:J:354:ASN:C	2.58	0.42
1:J:552:VAL:CG2	1:J:565:PHE:CB	2.92	0.42
1:K:431:ASN:OD1	1:K:431:ASN:C	2.58	0.42
1:L:121:LEU:HD23	1:L:121:LEU:O	2.19	0.42
1:L:170:GLU:O	1:L:170:GLU:HG2	2.20	0.42
1:L:368:GLU:CB	1:L:399:THR:HG21	2.48	0.42
1:L:459:ILE:CG2	1:L:460:THR:N	2.82	0.42
1:L:609:TYR:C	1:L:611:ALA:N	2.73	0.42
1:M:170:GLU:HG2	1:M:170:GLU:O	2.20	0.42
1:N:544:ARG:HH11	1:O:434:ILE:HD13	1.85	0.42
1:O:442:VAL:HG13	1:O:488:PRO:HG2	2.01	0.42
1:O:498:LEU:HD13	1:O:581:ILE:CD1	2.49	0.42
1:A:206:ASP:O	1:A:210:ASN:HA	2.20	0.42
1:A:258:LEU:HD11	1:A:310:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:442:VAL:HG22	1:A:443:MET:O	2.20	0.42
1:A:456:VAL:CG1	1:O:517:ARG:HD2	2.46	0.42
1:B:354:ASN:OD1	1:B:354:ASN:C	2.58	0.42
1:B:359:ILE:HD13	1:B:422:LEU:HB3	2.01	0.42
1:C:171:LEU:HD13	1:C:212:ILE:HB	2.02	0.42
1:C:265:LEU:HD23	1:C:302:ILE:HG12	1.96	0.42
1:C:299:PRO:CD	1:C:302:ILE:HD12	2.48	0.42
1:C:322:ILE:HD12	1:C:498:LEU:HD21	1.98	0.42
1:C:440:ILE:HD12	1:C:440:ILE:HA	1.81	0.42
1:C:442:VAL:HG22	1:C:443:MET:O	2.20	0.42
1:C:536:VAL:O	1:C:536:VAL:CG1	2.68	0.42
1:C:597:GLN:HG3	1:C:629:PHE:CD2	2.54	0.42
1:D:359:ILE:HD13	1:D:422:LEU:HB3	2.01	0.42
1:E:106:VAL:HG13	1:E:158:VAL:O	2.20	0.42
1:E:169:VAL:HG21	1:E:228:ILE:CD1	2.35	0.42
1:E:359:ILE:HD13	1:E:422:LEU:HB3	2.01	0.42
1:E:609:TYR:C	1:E:611:ALA:N	2.73	0.42
1:F:594:GLY:O	1:F:595:ILE:C	2.58	0.42
1:F:618:MET:HB3	1:F:618:MET:HE2	1.85	0.42
1:H:435:LEU:HD23	1:H:435:LEU:C	2.39	0.42
1:H:623:ILE:O	1:H:623:ILE:HG23	2.20	0.42
1:I:214:ILE:CG1	1:I:224:LEU:HD23	2.47	0.42
1:I:286:ALA:O	1:I:295:VAL:N	2.40	0.42
1:I:458:VAL:HG21	1:I:478:LYS:HD3	2.01	0.42
1:J:552:VAL:O	1:J:553:PRO:C	2.57	0.42
1:J:568:THR:CG2	1:L:617:LEU:CD1	2.97	0.42
1:J:640:GLN:NE2	1:J:643:ILE:HG21	2.35	0.42
1:K:354:ASN:OD1	1:K:354:ASN:C	2.58	0.42
1:K:459:ILE:CG2	1:K:460:THR:N	2.82	0.42
1:L:494:ASP:HB3	1:L:531:ASP:HB2	2.02	0.42
1:M:245:TYR:CE1	1:M:291:THR:HG21	2.55	0.42
1:M:354:ASN:OD1	1:M:354:ASN:C	2.58	0.42
1:M:552:VAL:O	1:M:553:PRO:C	2.57	0.42
1:M:594:GLY:O	1:M:595:ILE:C	2.58	0.42
1:O:321:LEU:HD21	1:O:599:LYS:HZ3	1.85	0.42
1:O:339:VAL:HG13	1:O:423:ILE:HG12	2.02	0.42
1:A:299:PRO:CD	1:A:302:ILE:HD12	2.47	0.41
1:A:354:ASN:OD1	1:A:354:ASN:C	2.58	0.41
1:A:373:THR:HG23	1:A:373:THR:O	2.19	0.41
1:A:442:VAL:HG13	1:A:488:PRO:HG2	2.02	0.41
1:A:484:LEU:HD11	1:A:500:ILE:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:494:ASP:HB3	1:A:531:ASP:HB2	2.02	0.41
1:C:115:SER:N	1:C:116:PRO:HD2	2.34	0.41
1:C:350:ILE:HG12	1:D:410:ALA:HB1	2.01	0.41
1:D:286:ALA:O	1:D:295:VAL:N	2.40	0.41
1:E:442:VAL:HG13	1:E:488:PRO:HG2	2.01	0.41
1:F:206:ASP:O	1:F:210:ASN:HA	2.20	0.41
1:F:314:ASP:OD1	1:F:314:ASP:O	2.38	0.41
1:F:322:ILE:HD12	1:F:498:LEU:HD21	1.98	0.41
1:F:517:ARG:HD2	1:G:456:VAL:CG1	2.46	0.41
1:F:597:GLN:HG3	1:F:629:PHE:CD2	2.54	0.41
1:G:139:ILE:HD13	1:G:155:ILE:CG2	2.45	0.41
1:G:206:ASP:O	1:G:210:ASN:HA	2.20	0.41
1:G:326:ILE:HG12	1:G:502:GLN:NE2	2.33	0.41
1:H:597:GLN:HG3	1:H:629:PHE:CD2	2.55	0.41
1:H:640:GLN:NE2	1:H:643:ILE:HG21	2.35	0.41
1:I:206:ASP:O	1:I:210:ASN:HA	2.20	0.41
1:I:261:VAL:CG1	1:J:241:ASN:HD22	2.30	0.41
1:J:138:ILE:CG2	1:J:139:ILE:N	2.71	0.41
1:J:373:THR:O	1:J:373:THR:HG23	2.20	0.41
1:J:459:ILE:CG2	1:J:460:THR:N	2.82	0.41
1:K:322:ILE:HD12	1:K:498:LEU:CD2	2.50	0.41
1:K:544:ARG:HH11	1:L:434:ILE:HD13	1.85	0.41
1:L:643:ILE:O	1:L:647:GLU:HG3	2.19	0.41
1:M:315:ILE:HD11	1:N:291:THR:HG23	2.00	0.41
1:M:435:LEU:HD23	1:M:435:LEU:C	2.39	0.41
1:M:513:ALA:CB	1:N:457:PRO:HD2	2.50	0.41
1:M:568:THR:CG2	1:O:617:LEU:CD1	2.97	0.41
1:N:170:GLU:O	1:N:170:GLU:HG2	2.20	0.41
1:O:483:LYS:HD3	1:O:503:GLU:OE1	2.19	0.41
1:A:212:ILE:CG2	1:A:228:ILE:HG12	2.46	0.41
1:A:245:TYR:CE1	1:A:291:THR:HG21	2.55	0.41
1:B:585:ILE:HG22	1:B:587:ARG:HG3	2.00	0.41
1:D:498:LEU:HD13	1:D:581:ILE:CD1	2.49	0.41
1:F:238:LYS:HE2	1:F:238:LYS:HB2	1.97	0.41
1:F:608:LEU:HD23	1:F:625:VAL:CG1	2.49	0.41
1:G:368:GLU:CB	1:G:399:THR:HG21	2.48	0.41
1:G:497:GLN:HG3	1:H:443:MET:HE2	2.02	0.41
1:H:108:ASN:ND2	1:I:134:ASP:OD2	2.54	0.41
1:H:315:ILE:HD11	1:I:291:THR:HG23	2.01	0.41
1:H:350:ILE:HG12	1:I:410:ALA:HB1	2.01	0.41
1:I:623:ILE:O	1:I:623:ILE:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:585:ILE:HG22	1:J:587:ARG:HG3	2.00	0.41
1:J:612:GLU:HG3	1:K:642:PHE:CD2	2.54	0.41
1:J:615:LEU:HD23	1:J:615:LEU:HA	1.87	0.41
1:K:484:LEU:HD11	1:K:500:ILE:HD11	2.01	0.41
1:M:544:ARG:HH11	1:N:434:ILE:HD13	1.85	0.41
1:N:313:LEU:HD23	1:N:313:LEU:HA	1.86	0.41
1:N:442:VAL:HG13	1:N:488:PRO:HG2	2.01	0.41
1:A:258:LEU:CB	1:A:285:ILE:CD1	2.93	0.41
1:A:458:VAL:HG21	1:A:478:LYS:HD3	2.02	0.41
1:A:544:ARG:HH11	1:B:434:ILE:HD13	1.85	0.41
1:B:322:ILE:HD12	1:B:498:LEU:CD2	2.50	0.41
1:C:298:ALA:HB3	1:C:303:MET:HE2	2.01	0.41
1:C:326:ILE:HG12	1:C:502:GLN:NE2	2.33	0.41
1:C:354:ASN:OD1	1:C:354:ASN:C	2.58	0.41
1:D:108:ASN:ND2	1:E:134:ASP:OD2	2.53	0.41
1:D:258:LEU:HD11	1:D:310:ILE:HD11	2.00	0.41
1:D:261:VAL:HG13	1:E:241:ASN:ND2	2.31	0.41
1:D:368:GLU:CB	1:D:399:THR:HG21	2.48	0.41
1:F:513:ALA:CB	1:G:457:PRO:HD2	2.50	0.41
1:G:245:TYR:CE1	1:G:291:THR:HG21	2.55	0.41
1:G:498:LEU:HD13	1:G:581:ILE:CD1	2.50	0.41
1:G:597:GLN:HG3	1:G:629:PHE:CD2	2.55	0.41
1:H:586:ILE:CD1	1:H:595:ILE:HD13	2.43	0.41
1:I:245:TYR:CE1	1:I:291:THR:HG21	2.55	0.41
1:I:261:VAL:CG1	1:J:241:ASN:ND2	2.83	0.41
1:I:491:ASN:HB2	1:I:495:SER:O	2.19	0.41
1:I:513:ALA:CB	1:J:457:PRO:HD2	2.49	0.41
1:J:609:TYR:C	1:J:611:ALA:N	2.73	0.41
1:K:618:MET:HE2	1:K:618:MET:HB3	1.85	0.41
1:L:583:PRO:O	1:L:583:PRO:CD	2.68	0.41
1:M:108:ASN:ND2	1:N:134:ASP:OD2	2.54	0.41
1:M:442:VAL:HG13	1:M:488:PRO:HG2	2.02	0.41
1:N:106:VAL:HG13	1:N:158:VAL:O	2.20	0.41
1:N:315:ILE:HD11	1:O:291:THR:HG23	2.01	0.41
1:N:326:ILE:CD1	1:N:502:GLN:NE2	2.67	0.41
1:N:354:ASN:OD1	1:N:354:ASN:C	2.58	0.41
1:N:442:VAL:HG22	1:N:443:MET:O	2.20	0.41
1:O:106:VAL:HG13	1:O:158:VAL:O	2.20	0.41
1:O:245:TYR:CE1	1:O:291:THR:HG21	2.55	0.41
1:O:459:ILE:CG2	1:O:460:THR:N	2.82	0.41
1:O:484:LEU:HD11	1:O:500:ILE:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:585:ILE:HG22	1:O:587:ARG:HG3	2.01	0.41
1:A:350:ILE:HG12	1:B:410:ALA:HB1	2.02	0.41
1:A:640:GLN:NE2	1:A:643:ILE:HG21	2.35	0.41
1:B:157:ARG:C	1:C:140:LEU:HD11	2.40	0.41
1:B:170:GLU:O	1:B:170:GLU:HG2	2.20	0.41
1:B:484:LEU:HD11	1:B:500:ILE:HD11	2.01	0.41
1:B:608:LEU:HD23	1:B:608:LEU:HA	1.92	0.41
1:D:233:VAL:N	1:E:208:ARG:HH22	2.19	0.41
1:D:640:GLN:NE2	1:D:643:ILE:HG21	2.35	0.41
1:E:597:GLN:HG3	1:E:629:PHE:CD2	2.54	0.41
1:E:612:GLU:CG	1:F:642:PHE:HE2	2.28	0.41
1:F:350:ILE:HG12	1:G:410:ALA:HB1	2.01	0.41
1:F:442:VAL:HG22	1:F:443:MET:O	2.20	0.41
1:G:322:ILE:HD12	1:G:498:LEU:CD2	2.50	0.41
1:H:326:ILE:CD1	1:H:502:GLN:NE2	2.67	0.41
1:H:458:VAL:HG21	1:H:478:LYS:HD3	2.01	0.41
1:I:322:ILE:HD12	1:I:498:LEU:CD2	2.50	0.41
1:J:513:ALA:CB	1:K:457:PRO:HD2	2.49	0.41
1:K:108:ASN:ND2	1:L:134:ASP:OD2	2.54	0.41
1:K:170:GLU:O	1:K:170:GLU:HG2	2.21	0.41
1:K:339:VAL:HG13	1:K:423:ILE:HG12	2.01	0.41
1:K:498:LEU:HD13	1:K:581:ILE:CD1	2.49	0.41
1:L:354:ASN:OD1	1:L:354:ASN:C	2.58	0.41
1:M:366:LEU:HD23	1:M:366:LEU:HA	1.85	0.41
1:M:494:ASP:HB3	1:M:531:ASP:HB2	2.03	0.41
1:M:618:MET:HE2	1:M:622:HIS:ND1	2.34	0.41
1:N:517:ARG:HH12	1:O:454:GLU:CD	2.24	0.41
1:N:609:TYR:C	1:N:611:ALA:N	2.73	0.41
1:N:640:GLN:NE2	1:N:643:ILE:HG21	2.35	0.41
1:O:494:ASP:HB3	1:O:531:ASP:HB2	2.02	0.41
1:O:609:TYR:C	1:O:611:ALA:N	2.73	0.41
1:O:640:GLN:NE2	1:O:643:ILE:HG21	2.35	0.41
1:A:491:ASN:HB2	1:A:495:SER:O	2.20	0.41
1:B:265:LEU:HD22	1:B:302:ILE:CG1	2.47	0.41
1:B:314:ASP:OD1	1:B:314:ASP:O	2.37	0.41
1:B:322:ILE:HD12	1:B:498:LEU:HD21	1.98	0.41
1:B:431:ASN:OD1	1:B:431:ASN:C	2.59	0.41
1:B:594:GLY:O	1:B:595:ILE:C	2.58	0.41
1:B:609:TYR:C	1:B:611:ALA:N	2.73	0.41
1:B:615:LEU:HD23	1:B:615:LEU:HA	1.87	0.41
1:C:359:ILE:HD13	1:C:422:LEU:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:623:ILE:HG23	1:C:623:ILE:O	2.21	0.41
1:D:314:ASP:OD1	1:D:314:ASP:O	2.37	0.41
1:D:597:GLN:HG3	1:D:629:PHE:CD2	2.55	0.41
1:E:206:ASP:O	1:E:210:ASN:HA	2.20	0.41
1:E:326:ILE:HB	1:E:436:SER:O	2.21	0.41
1:E:354:ASN:OD1	1:E:354:ASN:C	2.58	0.41
1:E:440:ILE:HD12	1:E:440:ILE:HA	1.81	0.41
1:G:258:LEU:HD11	1:G:310:ILE:HD11	2.00	0.41
1:H:167:GLU:CG	1:H:214:ILE:CG2	2.67	0.41
1:I:540:LEU:HD21	1:I:542:ASP:HB2	2.03	0.41
1:J:285:ILE:HG12	1:J:296:LEU:HD23	1.97	0.41
1:J:322:ILE:HD12	1:J:498:LEU:CD2	2.51	0.41
1:J:553:PRO:HB2	1:J:554:LEU:H	1.65	0.41
1:K:523:LEU:HD13	1:L:450:PHE:CD1	2.45	0.41
1:K:583:PRO:O	1:K:583:PRO:CD	2.69	0.41
1:L:106:VAL:HG13	1:L:158:VAL:O	2.20	0.41
1:L:206:ASP:O	1:L:210:ASN:HA	2.20	0.41
1:L:339:VAL:HG13	1:L:423:ILE:HG12	2.01	0.41
1:L:426:VAL:O	1:L:426:VAL:HG13	2.21	0.41
1:M:152:ALA:O	1:M:156:LYS:HG3	2.21	0.41
1:M:299:PRO:CG	1:M:302:ILE:HD12	2.51	0.41
1:M:572:VAL:HG23	1:O:618:MET:SD	2.61	0.41
1:N:167:GLU:CG	1:N:214:ILE:CG2	2.67	0.41
1:N:299:PRO:CG	1:N:302:ILE:HD12	2.50	0.41
1:O:322:ILE:HD12	1:O:498:LEU:CD2	2.50	0.41
1:A:299:PRO:CG	1:A:302:ILE:HD12	2.51	0.41
1:A:310:ILE:O	1:A:314:ASP:CB	2.68	0.41
1:A:434:ILE:HD13	1:O:544:ARG:HH11	1.86	0.41
1:B:298:ALA:HB3	1:B:303:MET:HE2	2.01	0.41
1:B:310:ILE:O	1:B:314:ASP:CB	2.68	0.41
1:B:368:GLU:CB	1:B:399:THR:HG21	2.48	0.41
1:B:458:VAL:HG21	1:B:478:LYS:HD3	2.02	0.41
1:B:609:TYR:O	1:B:612:GLU:N	2.37	0.41
1:C:442:VAL:HG11	1:C:488:PRO:CG	2.21	0.41
1:D:322:ILE:HD12	1:D:498:LEU:CD2	2.50	0.41
1:D:326:ILE:HB	1:D:436:SER:O	2.21	0.41
1:D:431:ASN:OD1	1:D:431:ASN:C	2.58	0.41
1:D:442:VAL:HG22	1:D:443:MET:O	2.20	0.41
1:E:152:ALA:O	1:E:156:LYS:HG3	2.21	0.41
1:E:368:GLU:CB	1:E:399:THR:HG21	2.48	0.41
1:E:442:VAL:HG22	1:E:443:MET:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:417:GLY:O	1:F:418:ASP:CB	2.58	0.41
1:F:498:LEU:HD13	1:F:581:ILE:CD1	2.50	0.41
1:F:540:LEU:HD21	1:F:542:ASP:HB2	2.03	0.41
1:G:350:ILE:HG12	1:H:410:ALA:HB1	2.01	0.41
1:G:596:THR:HG22	1:G:597:GLN:H	1.81	0.41
1:H:480:VAL:O	1:H:480:VAL:CG2	2.62	0.41
1:H:544:ARG:HH11	1:I:434:ILE:HD13	1.86	0.41
1:I:265:LEU:HD22	1:I:302:ILE:CG2	2.51	0.41
1:I:494:ASP:HB3	1:I:531:ASP:HB2	2.02	0.41
1:I:523:LEU:HD13	1:J:450:PHE:CD1	2.46	0.41
1:K:426:VAL:O	1:K:426:VAL:HG13	2.21	0.41
1:K:494:ASP:HB3	1:K:531:ASP:HB2	2.02	0.41
1:L:258:LEU:CB	1:L:285:ILE:CD1	2.93	0.41
1:L:442:VAL:HG13	1:L:488:PRO:HG2	2.01	0.41
1:L:484:LEU:HD11	1:L:500:ILE:HD11	2.01	0.41
1:M:106:VAL:HG13	1:M:158:VAL:O	2.20	0.41
1:M:285:ILE:HG12	1:M:296:LEU:HD23	1.96	0.41
1:N:438:PRO:HB3	1:N:450:PHE:CE2	2.56	0.41
1:O:314:ASP:OD1	1:O:314:ASP:O	2.38	0.41
1:A:431:ASN:OD1	1:A:431:ASN:C	2.58	0.41
1:A:435:LEU:HD23	1:A:435:LEU:C	2.40	0.41
1:A:608:LEU:HD23	1:A:625:VAL:CG1	2.50	0.41
1:A:609:TYR:C	1:A:611:ALA:N	2.73	0.41
1:B:491:ASN:HB2	1:B:495:SER:O	2.20	0.41
1:B:494:ASP:HB3	1:B:531:ASP:HB2	2.03	0.41
1:B:618:MET:SD	1:O:572:VAL:HG23	2.61	0.41
1:C:265:LEU:HD22	1:C:302:ILE:CG2	2.51	0.41
1:C:310:ILE:O	1:C:314:ASP:CB	2.68	0.41
1:C:313:LEU:HD23	1:C:313:LEU:HA	1.86	0.41
1:C:322:ILE:HD12	1:C:498:LEU:CD2	2.50	0.41
1:C:640:GLN:NE2	1:C:643:ILE:HG21	2.35	0.41
1:D:106:VAL:HG13	1:D:158:VAL:O	2.20	0.41
1:D:373:THR:HG23	1:D:373:THR:O	2.19	0.41
1:D:552:VAL:O	1:D:553:PRO:C	2.57	0.41
1:E:138:ILE:CG2	1:E:139:ILE:N	2.71	0.41
1:E:491:ASN:HB2	1:E:495:SER:O	2.20	0.41
1:F:171:LEU:HD13	1:F:212:ILE:HB	2.02	0.41
1:F:202:LYS:O	1:F:203:LEU:HD12	2.17	0.41
1:F:640:GLN:NE2	1:F:643:ILE:HG21	2.35	0.41
1:G:106:VAL:HG13	1:G:158:VAL:O	2.20	0.41
1:G:367:GLU:O	1:G:370:LYS:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:494:ASP:HB3	1:G:531:ASP:HB2	2.02	0.41
1:G:540:LEU:HD21	1:G:542:ASP:HB2	2.03	0.41
1:H:326:ILE:HB	1:H:436:SER:O	2.21	0.41
1:H:367:GLU:O	1:H:370:LYS:HB2	2.21	0.41
1:H:491:ASN:HB2	1:H:495:SER:O	2.19	0.41
1:H:494:ASP:HB3	1:H:531:ASP:HB2	2.03	0.41
1:I:206:ASP:HB3	1:I:209:THR:CG2	2.47	0.41
1:I:431:ASN:OD1	1:I:431:ASN:C	2.59	0.41
1:J:442:VAL:HG22	1:J:443:MET:O	2.20	0.41
1:K:265:LEU:HD22	1:K:302:ILE:CG2	2.51	0.41
1:K:299:PRO:CG	1:K:302:ILE:HD12	2.50	0.41
1:K:326:ILE:HG12	1:K:502:GLN:NE2	2.34	0.41
1:L:431:ASN:OD1	1:L:431:ASN:C	2.58	0.41
1:L:552:VAL:O	1:L:553:PRO:C	2.57	0.41
1:M:339:VAL:HG13	1:M:423:ILE:HG12	2.02	0.41
1:M:368:GLU:CB	1:M:399:THR:HG21	2.48	0.41
1:N:362:VAL:HG21	1:N:422:LEU:HD13	2.03	0.41
1:O:139:ILE:HD13	1:O:155:ILE:CG2	2.44	0.41
1:O:152:ALA:O	1:O:156:LYS:HG3	2.21	0.41
1:A:170:GLU:O	1:A:170:GLU:HG2	2.20	0.41
1:A:407:VAL:HG11	1:A:411:ALA:CB	2.51	0.41
1:A:552:VAL:O	1:A:553:PRO:C	2.57	0.41
1:A:583:PRO:O	1:A:583:PRO:CD	2.69	0.41
1:B:152:ALA:O	1:B:156:LYS:HG3	2.21	0.41
1:C:106:VAL:HG13	1:C:158:VAL:O	2.20	0.41
1:C:157:ARG:C	1:D:140:LEU:HD11	2.41	0.41
1:C:326:ILE:HB	1:C:436:SER:O	2.21	0.41
1:C:431:ASN:OD1	1:C:431:ASN:C	2.58	0.41
1:C:552:VAL:O	1:C:553:PRO:C	2.57	0.41
1:C:596:THR:HG22	1:C:597:GLN:H	1.81	0.41
1:D:438:PRO:HB3	1:D:450:PHE:CE2	2.56	0.41
1:E:544:ARG:HH11	1:F:434:ILE:HD13	1.86	0.41
1:F:298:ALA:HB3	1:F:303:MET:HE2	2.03	0.41
1:F:553:PRO:HB2	1:F:554:LEU:H	1.65	0.41
1:F:608:LEU:HD23	1:F:608:LEU:HA	1.92	0.41
1:G:233:VAL:N	1:H:208:ARG:HH22	2.19	0.41
1:G:438:PRO:HB3	1:G:450:PHE:CE2	2.56	0.41
1:H:169:VAL:CG2	1:H:228:ILE:CD1	2.97	0.41
1:H:426:VAL:O	1:H:426:VAL:HG13	2.21	0.41
1:I:355:THR:HG23	1:I:567:SER:HG	1.86	0.41
1:I:572:VAL:HG23	1:K:618:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:170:GLU:O	1:J:170:GLU:HG2	2.20	0.41
1:J:206:ASP:O	1:J:210:ASN:HA	2.20	0.41
1:J:572:VAL:HG23	1:L:618:MET:SD	2.61	0.41
1:K:407:VAL:HG11	1:K:411:ALA:CB	2.51	0.41
1:L:438:PRO:HB3	1:L:450:PHE:CE2	2.56	0.41
1:M:206:ASP:O	1:M:210:ASN:HA	2.20	0.41
1:M:367:GLU:O	1:M:370:LYS:HB2	2.21	0.41
1:N:245:TYR:CE1	1:N:291:THR:HG21	2.55	0.41
1:N:373:THR:O	1:N:373:THR:HG23	2.19	0.41
1:O:368:GLU:CB	1:O:399:THR:HG21	2.48	0.41
1:A:572:VAL:HG23	1:C:618:MET:SD	2.61	0.41
1:A:618:MET:SD	1:N:572:VAL:HG23	2.61	0.41
1:B:121:LEU:HA	1:B:124:ASN:HB2	2.03	0.41
1:B:321:LEU:N	1:B:584:THR:O	2.42	0.41
1:B:326:ILE:HB	1:B:436:SER:O	2.21	0.41
1:B:442:VAL:HG22	1:B:443:MET:O	2.20	0.41
1:B:517:ARG:HD2	1:C:456:VAL:CG1	2.45	0.41
1:B:540:LEU:HD21	1:B:542:ASP:HB2	2.02	0.41
1:B:572:VAL:HG23	1:D:618:MET:SD	2.61	0.41
1:C:121:LEU:HA	1:C:124:ASN:HB2	2.03	0.41
1:C:170:GLU:O	1:C:170:GLU:HG2	2.20	0.41
1:C:362:VAL:HG21	1:C:422:LEU:HD13	2.03	0.41
1:C:407:VAL:HG11	1:C:411:ALA:CB	2.51	0.41
1:C:517:ARG:HH12	1:D:454:GLU:CD	2.24	0.41
1:C:608:LEU:HD23	1:C:625:VAL:CG1	2.49	0.41
1:D:265:LEU:HD22	1:D:302:ILE:CG2	2.51	0.41
1:D:265:LEU:HD23	1:D:302:ILE:HG12	1.96	0.41
1:D:310:ILE:O	1:D:314:ASP:CB	2.68	0.41
1:D:354:ASN:OD1	1:D:354:ASN:C	2.58	0.41
1:D:536:VAL:O	1:D:536:VAL:CG1	2.68	0.41
1:D:540:LEU:HD21	1:D:542:ASP:HB2	2.03	0.41
1:E:157:ARG:C	1:F:140:LEU:HD11	2.39	0.41
1:E:238:LYS:HE2	1:E:238:LYS:HB2	1.98	0.41
1:E:355:THR:HG23	1:E:567:SER:HG	1.86	0.41
1:E:426:VAL:O	1:E:426:VAL:HG13	2.21	0.41
1:E:540:LEU:HD21	1:E:542:ASP:HB2	2.03	0.41
1:E:572:VAL:HG23	1:G:618:MET:SD	2.61	0.41
1:E:612:GLU:HG3	1:F:642:PHE:CD2	2.55	0.41
1:E:640:GLN:NE2	1:E:643:ILE:HG21	2.35	0.41
1:F:310:ILE:O	1:F:314:ASP:CB	2.68	0.41
1:F:326:ILE:CD1	1:F:502:GLN:NE2	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:326:ILE:HB	1:F:436:SER:O	2.21	0.41
1:F:354:ASN:OD1	1:F:354:ASN:C	2.58	0.41
1:F:367:GLU:O	1:F:370:LYS:HB2	2.21	0.41
1:F:431:ASN:OD1	1:F:431:ASN:C	2.58	0.41
1:F:440:ILE:HD12	1:F:440:ILE:HA	1.81	0.41
1:F:494:ASP:HB3	1:F:531:ASP:HB2	2.02	0.41
1:G:121:LEU:HA	1:G:124:ASN:HB2	2.03	0.41
1:G:152:ALA:HA	1:G:155:ILE:HB	2.03	0.41
1:G:152:ALA:O	1:G:156:LYS:HG3	2.21	0.41
1:G:265:LEU:HD22	1:G:302:ILE:CG2	2.50	0.41
1:G:310:ILE:O	1:G:314:ASP:CB	2.68	0.41
1:G:326:ILE:HB	1:G:436:SER:O	2.21	0.41
1:G:426:VAL:HG13	1:G:426:VAL:O	2.21	0.41
1:G:612:GLU:HG3	1:H:642:PHE:CD2	2.55	0.41
1:H:152:ALA:HA	1:H:155:ILE:HB	2.03	0.41
1:H:298:ALA:HB3	1:H:303:MET:HE2	2.02	0.41
1:H:310:ILE:O	1:H:314:ASP:CB	2.68	0.41
1:H:322:ILE:HD12	1:H:498:LEU:CD2	2.50	0.41
1:H:431:ASN:OD1	1:H:431:ASN:C	2.58	0.41
1:H:438:PRO:HB3	1:H:450:PHE:CE2	2.56	0.41
1:H:517:ARG:HD2	1:I:456:VAL:CG1	2.46	0.41
1:H:609:TYR:C	1:H:611:ALA:N	2.73	0.41
1:I:426:VAL:O	1:I:426:VAL:HG13	2.21	0.41
1:J:245:TYR:CE1	1:J:291:THR:HG21	2.55	0.41
1:J:517:ARG:HH12	1:K:454:GLU:CD	2.25	0.41
1:J:540:LEU:HD21	1:J:542:ASP:HB2	2.03	0.41
1:J:586:ILE:CD1	1:J:595:ILE:HD13	2.43	0.41
1:J:623:ILE:O	1:J:623:ILE:HG23	2.21	0.41
1:K:106:VAL:HG13	1:K:158:VAL:O	2.20	0.41
1:K:171:LEU:HD13	1:K:212:ILE:HB	2.02	0.41
1:K:206:ASP:O	1:K:210:ASN:HA	2.20	0.41
1:K:367:GLU:O	1:K:370:LYS:HB2	2.21	0.41
1:K:442:VAL:HG22	1:K:443:MET:O	2.20	0.41
1:K:536:VAL:O	1:K:536:VAL:CG1	2.68	0.41
1:K:552:VAL:CG2	1:K:565:PHE:CB	2.92	0.41
1:L:141:ILE:CG2	1:L:148:VAL:HG22	2.51	0.41
1:L:169:VAL:HG21	1:L:228:ILE:CD1	2.35	0.41
1:L:265:LEU:HD22	1:L:302:ILE:CG1	2.47	0.41
1:L:367:GLU:O	1:L:370:LYS:HB2	2.21	0.41
1:L:373:THR:HG23	1:L:373:THR:O	2.19	0.41
1:L:435:LEU:HD23	1:L:435:LEU:C	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:157:ARG:C	1:N:140:LEU:HD11	2.39	0.41
1:M:336:ASN:O	1:M:425:ALA:HA	2.21	0.41
1:M:362:VAL:HG21	1:M:422:LEU:HD13	2.03	0.41
1:M:438:PRO:HB3	1:M:450:PHE:CE2	2.56	0.41
1:M:484:LEU:HD11	1:M:500:ILE:HD11	2.01	0.41
1:M:583:PRO:O	1:M:583:PRO:CD	2.69	0.41
1:N:218:PRO:HA	1:N:221:ARG:CB	2.45	0.41
1:N:336:ASN:O	1:N:425:ALA:HA	2.21	0.41
1:N:484:LEU:HD11	1:N:500:ILE:HD11	2.02	0.41
1:O:170:GLU:O	1:O:170:GLU:HG2	2.20	0.41
1:O:206:ASP:O	1:O:210:ASN:HA	2.20	0.41
1:O:243:VAL:CG2	1:O:295:VAL:HG22	2.51	0.41
1:O:431:ASN:OD1	1:O:431:ASN:C	2.58	0.41
1:O:553:PRO:HB2	1:O:554:LEU:H	1.65	0.41
1:A:171:LEU:HD12	1:A:171:LEU:N	2.36	0.41
1:A:553:PRO:HD3	1:B:426:VAL:C	2.42	0.41
1:B:141:ILE:CG2	1:B:148:VAL:HG22	2.51	0.41
1:B:325:LEU:HD13	1:B:534:MET:CE	2.52	0.41
1:C:527:VAL:HG11	1:C:537:LEU:HD23	2.03	0.41
1:D:206:ASP:O	1:D:210:ASN:HA	2.20	0.41
1:D:572:VAL:HG23	1:F:618:MET:SD	2.61	0.41
1:E:258:LEU:HD11	1:E:310:ILE:HD11	2.01	0.41
1:E:438:PRO:HB3	1:E:450:PHE:CE2	2.56	0.41
1:E:527:VAL:HG11	1:E:537:LEU:HD23	2.03	0.41
1:F:438:PRO:HB3	1:F:450:PHE:CE2	2.56	0.41
1:F:527:VAL:HG11	1:F:537:LEU:HD23	2.03	0.41
1:G:315:ILE:HD11	1:H:291:THR:HG23	2.01	0.41
1:H:170:GLU:HG2	1:H:170:GLU:O	2.20	0.41
1:H:442:VAL:HG22	1:H:443:MET:O	2.20	0.41
1:H:523:LEU:CD1	1:I:440:ILE:HD11	2.37	0.41
1:H:527:VAL:HG11	1:H:537:LEU:HD23	2.03	0.41
1:J:106:VAL:HG13	1:J:158:VAL:O	2.20	0.41
1:J:440:ILE:HD12	1:J:440:ILE:HA	1.80	0.41
1:J:583:PRO:O	1:J:583:PRO:CD	2.69	0.41
1:K:314:ASP:OD1	1:K:314:ASP:O	2.38	0.41
1:K:517:ARG:HH12	1:L:454:GLU:CD	2.24	0.41
1:K:553:PRO:HD3	1:L:426:VAL:C	2.41	0.41
1:L:322:ILE:HD12	1:L:498:LEU:CD2	2.50	0.41
1:L:544:ARG:HH11	1:M:434:ILE:HD13	1.86	0.41
1:L:640:GLN:NE2	1:L:643:ILE:HG21	2.35	0.41
1:M:553:PRO:HD3	1:N:426:VAL:C	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:640:GLN:NE2	1:M:643:ILE:HG21	2.35	0.41
1:N:314:ASP:OD1	1:N:314:ASP:O	2.38	0.41
1:O:183:VAL:HB	1:O:203:LEU:CD2	2.52	0.41
1:O:336:ASN:O	1:O:425:ALA:HA	2.21	0.41
1:O:583:PRO:O	1:O:583:PRO:CD	2.69	0.41
1:A:105:ALA:HB2	1:O:219:LYS:HZ2	1.84	0.40
1:A:326:ILE:HB	1:A:436:SER:O	2.21	0.40
1:A:623:ILE:HG23	1:A:623:ILE:O	2.20	0.40
1:B:212:ILE:CG2	1:B:228:ILE:HG12	2.46	0.40
1:B:438:PRO:HB3	1:B:450:PHE:CE2	2.56	0.40
1:B:537:LEU:HA	1:B:537:LEU:HD23	1.88	0.40
1:B:553:PRO:HD3	1:C:426:VAL:C	2.42	0.40
1:C:131:VAL:HG12	1:C:141:ILE:HG12	2.03	0.40
1:C:152:ALA:O	1:C:156:LYS:HG3	2.21	0.40
1:C:572:VAL:HG23	1:E:618:MET:SD	2.61	0.40
1:D:152:ALA:O	1:D:156:LYS:HG3	2.21	0.40
1:D:497:GLN:HG3	1:E:443:MET:HE2	2.02	0.40
1:E:131:VAL:HG12	1:E:141:ILE:HG12	2.04	0.40
1:E:310:ILE:O	1:E:314:ASP:CB	2.68	0.40
1:E:494:ASP:HB3	1:E:531:ASP:HB2	2.02	0.40
1:F:264:ASN:ND2	1:G:284:VAL:H	2.19	0.40
1:G:170:GLU:O	1:G:170:GLU:HG2	2.20	0.40
1:G:314:ASP:OD1	1:G:314:ASP:O	2.38	0.40
1:G:623:ILE:O	1:G:623:ILE:HG23	2.21	0.40
1:H:121:LEU:HA	1:H:124:ASN:HB2	2.03	0.40
1:H:643:ILE:HD12	1:H:643:ILE:HA	1.77	0.40
1:I:141:ILE:CG2	1:I:148:VAL:HG22	2.51	0.40
1:I:310:ILE:O	1:I:314:ASP:CB	2.68	0.40
1:I:631:GLU:O	1:I:632:ASP:HB3	2.19	0.40
1:I:640:GLN:NE2	1:I:643:ILE:HG21	2.35	0.40
1:J:152:ALA:O	1:J:156:LYS:HG3	2.21	0.40
1:K:480:VAL:O	1:K:480:VAL:CG2	2.61	0.40
1:K:640:GLN:NE2	1:K:643:ILE:HG21	2.35	0.40
1:L:265:LEU:HD22	1:L:302:ILE:CG2	2.51	0.40
1:M:169:VAL:CG2	1:M:228:ILE:CD1	2.97	0.40
1:M:517:ARG:HH12	1:N:454:GLU:CD	2.25	0.40
1:M:540:LEU:HD21	1:M:542:ASP:HB2	2.03	0.40
1:M:609:TYR:C	1:M:611:ALA:N	2.73	0.40
1:M:623:ILE:HG23	1:M:623:ILE:O	2.21	0.40
1:N:367:GLU:O	1:N:370:LYS:HB2	2.21	0.40
1:N:552:VAL:O	1:N:553:PRO:C	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:141:ILE:CG2	1:O:148:VAL:HG22	2.52	0.40
1:O:362:VAL:HG21	1:O:422:LEU:HD13	2.03	0.40
1:O:440:ILE:HD12	1:O:440:ILE:HA	1.80	0.40
1:A:362:VAL:HG21	1:A:422:LEU:HD13	2.03	0.40
1:A:527:VAL:HG11	1:A:537:LEU:HD23	2.03	0.40
1:B:171:LEU:HD12	1:B:171:LEU:N	2.37	0.40
1:B:258:LEU:CB	1:B:285:ILE:CD1	2.93	0.40
1:B:362:VAL:HG21	1:B:422:LEU:HD13	2.04	0.40
1:C:141:ILE:CG2	1:C:148:VAL:HG22	2.51	0.40
1:C:243:VAL:CG2	1:C:295:VAL:HG22	2.52	0.40
1:C:336:ASN:O	1:C:425:ALA:HA	2.21	0.40
1:C:540:LEU:HD21	1:C:542:ASP:HB2	2.03	0.40
1:C:609:TYR:C	1:C:611:ALA:N	2.73	0.40
1:D:238:LYS:HE2	1:D:238:LYS:HB2	1.98	0.40
1:D:326:ILE:CD1	1:D:502:GLN:NE2	2.67	0.40
1:D:362:VAL:HG21	1:D:422:LEU:HD13	2.03	0.40
1:D:517:ARG:HD2	1:D:517:ARG:HH11	1.75	0.40
1:D:527:VAL:HG11	1:D:537:LEU:HD23	2.03	0.40
1:E:298:ALA:HB3	1:E:303:MET:HE2	2.03	0.40
1:E:321:LEU:N	1:E:584:THR:O	2.42	0.40
1:E:407:VAL:HG11	1:E:411:ALA:CB	2.52	0.40
1:F:152:ALA:HA	1:F:155:ILE:HB	2.03	0.40
1:F:246:LEU:HD22	1:F:251:ALA:CB	2.41	0.40
1:F:321:LEU:N	1:F:584:THR:O	2.42	0.40
1:F:355:THR:HG23	1:F:567:SER:HG	1.86	0.40
1:F:426:VAL:HG13	1:F:426:VAL:O	2.21	0.40
1:G:131:VAL:HG12	1:G:141:ILE:HG12	2.04	0.40
1:G:407:VAL:HG11	1:G:411:ALA:CB	2.51	0.40
1:G:517:ARG:HH12	1:H:454:GLU:CD	2.24	0.40
1:G:527:VAL:HG11	1:G:537:LEU:HD23	2.04	0.40
1:H:336:ASN:O	1:H:425:ALA:HA	2.21	0.40
1:H:497:GLN:HG3	1:I:443:MET:HE2	2.03	0.40
1:H:540:LEU:HD21	1:H:542:ASP:HB2	2.03	0.40
1:I:336:ASN:O	1:I:425:ALA:HA	2.21	0.40
1:J:206:ASP:HB3	1:J:209:THR:CG2	2.47	0.40
1:J:299:PRO:CG	1:J:302:ILE:HD12	2.51	0.40
1:J:494:ASP:HB3	1:J:531:ASP:HB2	2.02	0.40
1:J:553:PRO:HD3	1:K:426:VAL:C	2.41	0.40
1:K:438:PRO:HB3	1:K:450:PHE:CE2	2.56	0.40
1:K:572:VAL:HG23	1:M:618:MET:SD	2.61	0.40
1:L:336:ASN:O	1:L:425:ALA:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:536:VAL:O	1:L:536:VAL:CG1	2.68	0.40
1:M:183:VAL:HB	1:M:203:LEU:CD2	2.51	0.40
1:M:333:ASP:CG	1:O:618:MET:CE	2.90	0.40
1:M:458:VAL:HG21	1:M:478:LYS:HD3	2.02	0.40
1:N:206:ASP:O	1:N:210:ASN:HA	2.20	0.40
1:N:536:VAL:O	1:N:536:VAL:CG1	2.68	0.40
1:N:553:PRO:HD3	1:O:426:VAL:C	2.42	0.40
1:O:299:PRO:CG	1:O:302:ILE:HD12	2.51	0.40
1:O:407:VAL:HG11	1:O:411:ALA:CB	2.51	0.40
1:O:564:LEU:HD23	1:O:564:LEU:HA	1.97	0.40
1:O:615:LEU:HD23	1:O:615:LEU:HA	1.87	0.40
1:A:264:ASN:ND2	1:B:284:VAL:H	2.20	0.40
1:A:325:LEU:HD13	1:A:534:MET:CE	2.52	0.40
1:B:171:LEU:HD13	1:B:212:ILE:HB	2.02	0.40
1:C:183:VAL:HB	1:C:203:LEU:CD2	2.51	0.40
1:C:214:ILE:CD1	1:C:220:VAL:CG1	2.49	0.40
1:C:325:LEU:HD13	1:C:534:MET:CE	2.52	0.40
1:D:321:LEU:N	1:D:584:THR:O	2.42	0.40
1:D:494:ASP:HB3	1:D:531:ASP:HB2	2.02	0.40
1:D:553:PRO:HD3	1:E:426:VAL:C	2.42	0.40
1:D:623:ILE:O	1:D:623:ILE:HG23	2.20	0.40
1:E:367:GLU:O	1:E:370:LYS:HB2	2.21	0.40
1:E:498:LEU:HD13	1:E:581:ILE:CD1	2.50	0.40
1:E:623:ILE:O	1:E:623:ILE:HG23	2.20	0.40
1:F:121:LEU:HA	1:F:124:ASN:HB2	2.03	0.40
1:F:169:VAL:CG2	1:F:228:ILE:CD1	2.97	0.40
1:F:171:LEU:HD12	1:F:171:LEU:N	2.37	0.40
1:F:517:ARG:HH12	1:G:454:GLU:CD	2.25	0.40
1:G:171:LEU:HD12	1:G:171:LEU:N	2.37	0.40
1:G:254:LEU:HA	1:G:254:LEU:HD12	1.90	0.40
1:G:285:ILE:HG12	1:G:296:LEU:HD23	1.97	0.40
1:G:442:VAL:HG22	1:G:443:MET:O	2.20	0.40
1:H:99:VAL:HG13	1:H:143:GLY:CA	2.52	0.40
1:I:367:GLU:O	1:I:370:LYS:HB2	2.21	0.40
1:I:527:VAL:HG11	1:I:537:LEU:HD23	2.03	0.40
1:J:157:ARG:C	1:K:140:LEU:HD11	2.40	0.40
1:J:171:LEU:HD13	1:J:212:ILE:HB	2.02	0.40
1:J:171:LEU:HD12	1:J:171:LEU:N	2.37	0.40
1:J:310:ILE:O	1:J:314:ASP:CB	2.68	0.40
1:J:367:GLU:O	1:J:370:LYS:HB2	2.21	0.40
1:K:152:ALA:O	1:K:156:LYS:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:540:LEU:HD21	1:K:542:ASP:HB2	2.03	0.40
1:K:623:ILE:O	1:K:623:ILE:HG23	2.21	0.40
1:L:171:LEU:HD13	1:L:212:ILE:HB	2.02	0.40
1:L:264:ASN:ND2	1:M:284:VAL:H	2.20	0.40
1:L:572:VAL:HG23	1:N:618:MET:SD	2.61	0.40
1:M:322:ILE:HD12	1:M:498:LEU:CD2	2.50	0.40
1:M:407:VAL:HG11	1:M:411:ALA:CB	2.52	0.40
1:M:536:VAL:O	1:M:536:VAL:CG1	2.69	0.40
1:N:152:ALA:O	1:N:156:LYS:HG3	2.21	0.40
1:N:183:VAL:HB	1:N:203:LEU:CD2	2.52	0.40
1:N:431:ASN:OD1	1:N:431:ASN:C	2.58	0.40
1:N:494:ASP:HB3	1:N:531:ASP:HB2	2.02	0.40
1:O:131:VAL:HG12	1:O:141:ILE:HG12	2.04	0.40
1:O:265:LEU:HD22	1:O:302:ILE:CG2	2.50	0.40
1:O:310:ILE:O	1:O:314:ASP:CB	2.68	0.40
1:A:121:LEU:HA	1:A:124:ASN:HB2	2.03	0.40
1:A:152:ALA:O	1:A:156:LYS:HG3	2.21	0.40
1:A:426:VAL:O	1:A:426:VAL:HG13	2.21	0.40
1:B:243:VAL:CG2	1:B:295:VAL:HG22	2.52	0.40
1:B:336:ASN:O	1:B:425:ALA:HA	2.21	0.40
1:B:517:ARG:HH12	1:C:454:GLU:CD	2.24	0.40
1:B:527:VAL:HG11	1:B:537:LEU:HD23	2.04	0.40
1:C:206:ASP:O	1:C:210:ASN:HA	2.20	0.40
1:C:321:LEU:N	1:C:584:THR:O	2.42	0.40
1:C:580:PHE:CE1	1:D:600:TYR:HB2	2.56	0.40
1:D:121:LEU:HA	1:D:124:ASN:HB2	2.03	0.40
1:D:517:ARG:HH12	1:E:454:GLU:CD	2.25	0.40
1:D:583:PRO:O	1:D:583:PRO:CD	2.69	0.40
1:E:171:LEU:HD12	1:E:171:LEU:N	2.37	0.40
1:E:362:VAL:HG21	1:E:422:LEU:HD13	2.03	0.40
1:E:553:PRO:HD3	1:F:426:VAL:C	2.42	0.40
1:F:141:ILE:CG2	1:F:148:VAL:HG22	2.51	0.40
1:G:99:VAL:HG13	1:G:143:GLY:CA	2.52	0.40
1:G:298:ALA:HB3	1:G:303:MET:HE2	2.03	0.40
1:G:553:PRO:HD3	1:H:426:VAL:C	2.41	0.40
1:G:564:LEU:HD23	1:G:564:LEU:HA	1.97	0.40
1:H:152:ALA:O	1:H:156:LYS:HG3	2.21	0.40
1:H:536:VAL:O	1:H:536:VAL:CG1	2.68	0.40
1:I:106:VAL:HG13	1:I:158:VAL:O	2.20	0.40
1:I:152:ALA:HA	1:I:155:ILE:HB	2.03	0.40
1:I:326:ILE:HB	1:I:436:SER:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:407:VAL:HG11	1:I:411:ALA:CB	2.52	0.40
1:I:438:PRO:HB3	1:I:450:PHE:CE2	2.56	0.40
1:I:608:LEU:HD23	1:I:625:VAL:CG1	2.49	0.40
1:J:141:ILE:CG2	1:J:148:VAL:HG22	2.51	0.40
1:J:435:LEU:HD23	1:J:435:LEU:C	2.39	0.40
1:L:362:VAL:HG21	1:L:422:LEU:HD13	2.03	0.40
1:L:540:LEU:HD21	1:L:542:ASP:HB2	2.03	0.40
1:L:568:THR:CG2	1:N:617:LEU:HD11	2.52	0.40
1:M:264:ASN:ND2	1:N:284:VAL:H	2.20	0.40
1:M:426:VAL:O	1:M:426:VAL:HG13	2.21	0.40
1:M:442:VAL:HG22	1:M:443:MET:O	2.20	0.40
1:M:608:LEU:HD23	1:M:608:LEU:HA	1.92	0.40
1:N:141:ILE:CG2	1:N:148:VAL:HG22	2.51	0.40
1:N:171:LEU:HD13	1:N:212:ILE:HB	2.02	0.40
1:N:265:LEU:HD22	1:N:302:ILE:CG2	2.50	0.40
1:N:407:VAL:HG11	1:N:411:ALA:CB	2.51	0.40
1:O:171:LEU:HD12	1:O:171:LEU:N	2.37	0.40
1:O:442:VAL:HG22	1:O:443:MET:O	2.20	0.40
1:O:552:VAL:O	1:O:553:PRO:C	2.57	0.40
1:A:243:VAL:CG2	1:A:295:VAL:HG22	2.52	0.40
1:A:426:VAL:C	1:O:553:PRO:HD3	2.41	0.40
1:A:454:GLU:CD	1:O:517:ARG:HH12	2.25	0.40
1:B:131:VAL:HG12	1:B:141:ILE:HG12	2.04	0.40
1:B:183:VAL:HB	1:B:203:LEU:CD2	2.51	0.40
1:B:246:LEU:HD11	1:B:294:LEU:HG	2.03	0.40
1:B:543:GLU:HB2	1:D:624:PRO:HB3	2.04	0.40
1:C:171:LEU:HD12	1:C:171:LEU:N	2.37	0.40
1:C:314:ASP:OD1	1:C:314:ASP:O	2.38	0.40
1:C:438:PRO:HB3	1:C:450:PHE:CE2	2.57	0.40
1:C:494:ASP:HB3	1:C:531:ASP:HB2	2.03	0.40
1:D:183:VAL:HB	1:D:203:LEU:CD2	2.52	0.40
1:D:367:GLU:O	1:D:370:LYS:HB2	2.21	0.40
1:D:544:ARG:HH11	1:E:434:ILE:HD13	1.85	0.40
1:E:536:VAL:O	1:E:536:VAL:CG1	2.68	0.40
1:F:553:PRO:HD3	1:G:426:VAL:C	2.42	0.40
1:F:572:VAL:HG23	1:H:618:MET:SD	2.61	0.40
1:G:117:LEU:CD2	1:G:154:ILE:HD13	2.52	0.40
1:G:336:ASN:O	1:G:425:ALA:HA	2.21	0.40
1:G:544:ARG:HH11	1:H:434:ILE:HD13	1.86	0.40
1:G:640:GLN:NE2	1:G:643:ILE:HG21	2.35	0.40
1:H:572:VAL:HG23	1:J:618:MET:SD	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:171:LEU:HD12	1:I:171:LEU:N	2.36	0.40
1:I:435:LEU:HD23	1:I:435:LEU:C	2.39	0.40
1:I:564:LEU:HD23	1:I:564:LEU:HA	1.96	0.40
1:J:246:LEU:HD11	1:J:294:LEU:HG	2.04	0.40
1:J:326:ILE:HG12	1:J:502:GLN:NE2	2.34	0.40
1:K:171:LEU:HD12	1:K:171:LEU:N	2.37	0.40
1:M:497:GLN:O	1:M:497:GLN:CG	2.70	0.40
1:M:612:GLU:HG3	1:N:642:PHE:CD2	2.54	0.40
1:N:206:ASP:HB3	1:N:209:THR:CG2	2.47	0.40
1:O:325:LEU:HD13	1:O:534:MET:CE	2.52	0.40
1:O:367:GLU:O	1:O:370:LYS:HB2	2.21	0.40
1:O:618:MET:HE2	1:O:622:HIS:ND1	2.36	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	B	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	C	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	D	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	E	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	F	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	G	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	H	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	I	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	J	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	K	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	L	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	M	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	N	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
1	O	486/553 (88%)	417 (86%)	53 (11%)	16 (3%)	4	22
All	All	7290/8295 (88%)	6255 (86%)	795 (11%)	240 (3%)	6	22

All (240) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	347	GLY
1	A	552	VAL
1	A	553	PRO
1	B	347	GLY
1	B	552	VAL
1	B	553	PRO
1	C	347	GLY
1	C	552	VAL
1	C	553	PRO
1	D	347	GLY
1	D	552	VAL
1	D	553	PRO
1	E	347	GLY
1	E	552	VAL
1	E	553	PRO
1	F	347	GLY
1	F	552	VAL
1	F	553	PRO
1	G	347	GLY
1	G	552	VAL
1	G	553	PRO
1	H	347	GLY
1	H	552	VAL
1	H	553	PRO
1	I	347	GLY
1	I	552	VAL
1	I	553	PRO
1	J	347	GLY
1	J	552	VAL
1	J	553	PRO

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Mol	Chain	Res	Type
1	K	347	GLY
1	K	552	VAL
1	K	553	PRO
1	L	347	GLY
1	L	552	VAL
1	L	553	PRO
1	M	347	GLY
1	M	552	VAL
1	M	553	PRO
1	N	347	GLY
1	N	552	VAL
1	N	553	PRO
1	O	347	GLY
1	O	552	VAL
1	O	553	PRO
1	A	233	VAL
1	A	356	GLY
1	A	514	VAL
1	B	233	VAL
1	B	356	GLY
1	B	514	VAL
1	C	233	VAL
1	C	356	GLY
1	C	514	VAL
1	D	233	VAL
1	D	356	GLY
1	D	514	VAL
1	E	233	VAL
1	E	356	GLY
1	E	514	VAL
1	F	233	VAL
1	F	356	GLY
1	F	514	VAL
1	G	233	VAL
1	G	356	GLY
1	G	514	VAL
1	H	233	VAL
1	H	356	GLY
1	H	514	VAL
1	I	233	VAL
1	I	356	GLY
1	I	514	VAL

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Mol	Chain	Res	Type
1	J	233	VAL
1	J	356	GLY
1	J	511	ASN
1	J	514	VAL
1	K	233	VAL
1	K	356	GLY
1	K	514	VAL
1	L	233	VAL
1	L	356	GLY
1	L	514	VAL
1	M	233	VAL
1	M	356	GLY
1	M	514	VAL
1	N	233	VAL
1	N	356	GLY
1	N	514	VAL
1	O	233	VAL
1	O	356	GLY
1	O	514	VAL
1	A	428	SER
1	A	511	ASN
1	A	615	LEU
1	B	428	SER
1	B	511	ASN
1	C	428	SER
1	C	511	ASN
1	D	428	SER
1	D	506	ASN
1	D	511	ASN
1	E	428	SER
1	E	506	ASN
1	E	511	ASN
1	E	615	LEU
1	F	428	SER
1	F	511	ASN
1	G	428	SER
1	G	511	ASN
1	H	428	SER
1	H	506	ASN
1	H	511	ASN
1	I	428	SER
1	I	506	ASN

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Mol	Chain	Res	Type
1	I	511	ASN
1	I	615	LEU
1	J	428	SER
1	K	428	SER
1	K	511	ASN
1	L	428	SER
1	L	506	ASN
1	L	511	ASN
1	M	428	SER
1	M	506	ASN
1	M	511	ASN
1	M	615	LEU
1	N	428	SER
1	N	511	ASN
1	O	428	SER
1	O	511	ASN
1	A	290	GLY
1	A	506	ASN
1	B	290	GLY
1	B	506	ASN
1	B	615	LEU
1	C	290	GLY
1	C	506	ASN
1	C	615	LEU
1	D	290	GLY
1	D	615	LEU
1	E	290	GLY
1	F	290	GLY
1	F	506	ASN
1	F	615	LEU
1	G	290	GLY
1	G	506	ASN
1	G	615	LEU
1	H	290	GLY
1	H	615	LEU
1	I	290	GLY
1	J	290	GLY
1	J	506	ASN
1	J	615	LEU
1	K	290	GLY
1	K	506	ASN
1	K	615	LEU

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Mol	Chain	Res	Type
1	L	290	GLY
1	L	615	LEU
1	M	290	GLY
1	N	290	GLY
1	N	506	ASN
1	N	615	LEU
1	O	290	GLY
1	O	506	ASN
1	O	615	LEU
1	N	417	GLY
1	O	417	GLY
1	A	417	GLY
1	B	417	GLY
1	C	417	GLY
1	D	417	GLY
1	E	417	GLY
1	F	417	GLY
1	G	417	GLY
1	H	417	GLY
1	I	417	GLY
1	J	417	GLY
1	K	417	GLY
1	L	417	GLY
1	M	417	GLY
1	A	438	PRO
1	A	507	VAL
1	A	636	PRO
1	B	438	PRO
1	B	507	VAL
1	C	438	PRO
1	C	507	VAL
1	D	438	PRO
1	D	507	VAL
1	E	438	PRO
1	E	507	VAL
1	E	636	PRO
1	F	438	PRO
1	F	507	VAL
1	G	438	PRO
1	H	438	PRO
1	H	507	VAL
1	I	438	PRO

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Mol	Chain	Res	Type
1	I	507	VAL
1	J	438	PRO
1	K	438	PRO
1	L	438	PRO
1	L	507	VAL
1	L	636	PRO
1	M	438	PRO
1	M	507	VAL
1	N	438	PRO
1	O	438	PRO
1	O	507	VAL
1	B	636	PRO
1	C	636	PRO
1	D	180	VAL
1	D	636	PRO
1	E	180	VAL
1	F	636	PRO
1	G	180	VAL
1	G	507	VAL
1	G	636	PRO
1	H	636	PRO
1	I	180	VAL
1	I	636	PRO
1	J	507	VAL
1	J	636	PRO
1	K	507	VAL
1	K	636	PRO
1	M	180	VAL
1	M	636	PRO
1	N	507	VAL
1	N	636	PRO
1	O	180	VAL
1	O	636	PRO
1	A	180	VAL
1	B	180	VAL
1	C	180	VAL
1	F	180	VAL
1	H	180	VAL
1	J	180	VAL
1	K	180	VAL
1	L	180	VAL
1	N	180	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	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	B	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	C	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	D	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	E	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	F	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	G	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	H	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	I	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	J	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	K	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	L	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	M	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	N	414/464 (89%)	411 (99%)	3 (1%)	84	92
1	O	414/464 (89%)	411 (99%)	3 (1%)	84	92
All	All	6210/6960 (89%)	6165 (99%)	45 (1%)	84	92

All (45) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	235	MET
1	A	238	LYS
1	A	522	GLN
1	B	235	MET
1	B	238	LYS
1	B	522	GLN
1	C	235	MET
1	C	238	LYS
1	C	522	GLN
1	D	235	MET

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Mol	Chain	Res	Type
1	D	238	LYS
1	D	522	GLN
1	E	235	MET
1	E	238	LYS
1	E	522	GLN
1	F	235	MET
1	F	238	LYS
1	F	522	GLN
1	G	235	MET
1	G	238	LYS
1	G	522	GLN
1	H	235	MET
1	H	238	LYS
1	H	522	GLN
1	I	235	MET
1	I	238	LYS
1	I	522	GLN
1	J	235	MET
1	J	238	LYS
1	J	522	GLN
1	K	235	MET
1	K	238	LYS
1	K	522	GLN
1	L	235	MET
1	L	238	LYS
1	L	522	GLN
1	M	235	MET
1	M	238	LYS
1	M	522	GLN
1	N	235	MET
1	N	238	LYS
1	N	522	GLN
1	O	235	MET
1	O	238	LYS
1	O	522	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (152) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	241	ASN
1	A	264	ASN
1	A	340	GLN

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Continued from previous page...

Mol	Chain	Res	Type
1	A	489	GLN
1	A	491	ASN
1	A	502	GLN
1	A	524	ASN
1	A	576	ASN
1	A	635	HIS
1	A	640	GLN
1	B	241	ASN
1	B	264	ASN
1	B	340	GLN
1	B	351	GLN
1	B	489	GLN
1	B	491	ASN
1	B	502	GLN
1	B	524	ASN
1	B	576	ASN
1	B	635	HIS
1	B	640	GLN
1	C	241	ASN
1	C	264	ASN
1	C	340	GLN
1	C	489	GLN
1	C	491	ASN
1	C	502	GLN
1	C	524	ASN
1	C	576	ASN
1	C	635	HIS
1	C	640	GLN
1	D	241	ASN
1	D	264	ASN
1	D	340	GLN
1	D	489	GLN
1	D	491	ASN
1	D	502	GLN
1	D	524	ASN
1	D	576	ASN
1	D	635	HIS
1	D	640	GLN
1	E	241	ASN
1	E	264	ASN
1	E	340	GLN
1	E	489	GLN

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Mol	Chain	Res	Type
1	E	491	ASN
1	E	502	GLN
1	E	524	ASN
1	E	576	ASN
1	E	635	HIS
1	E	640	GLN
1	F	241	ASN
1	F	264	ASN
1	F	340	GLN
1	F	489	GLN
1	F	491	ASN
1	F	502	GLN
1	F	524	ASN
1	F	576	ASN
1	F	635	HIS
1	F	640	GLN
1	G	241	ASN
1	G	264	ASN
1	G	340	GLN
1	G	489	GLN
1	G	491	ASN
1	G	502	GLN
1	G	524	ASN
1	G	576	ASN
1	G	635	HIS
1	G	640	GLN
1	H	241	ASN
1	H	264	ASN
1	H	340	GLN
1	H	489	GLN
1	H	491	ASN
1	H	502	GLN
1	H	524	ASN
1	H	576	ASN
1	H	635	HIS
1	H	640	GLN
1	I	241	ASN
1	I	264	ASN
1	I	340	GLN
1	I	489	GLN
1	I	491	ASN
1	I	502	GLN

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Mol	Chain	Res	Type
1	I	524	ASN
1	I	576	ASN
1	I	635	HIS
1	I	640	GLN
1	J	241	ASN
1	J	264	ASN
1	J	340	GLN
1	J	489	GLN
1	J	491	ASN
1	J	502	GLN
1	J	524	ASN
1	J	576	ASN
1	J	635	HIS
1	J	640	GLN
1	K	241	ASN
1	K	264	ASN
1	K	340	GLN
1	K	489	GLN
1	K	491	ASN
1	K	502	GLN
1	K	524	ASN
1	K	576	ASN
1	K	635	HIS
1	K	640	GLN
1	L	241	ASN
1	L	264	ASN
1	L	340	GLN
1	L	489	GLN
1	L	491	ASN
1	L	502	GLN
1	L	524	ASN
1	L	576	ASN
1	L	635	HIS
1	L	640	GLN
1	M	241	ASN
1	M	264	ASN
1	M	340	GLN
1	M	351	GLN
1	M	489	GLN
1	M	491	ASN
1	M	502	GLN
1	M	524	ASN

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Mol	Chain	Res	Type
1	M	576	ASN
1	M	635	HIS
1	M	640	GLN
1	N	241	ASN
1	N	264	ASN
1	N	340	GLN
1	N	489	GLN
1	N	491	ASN
1	N	502	GLN
1	N	524	ASN
1	N	576	ASN
1	N	635	HIS
1	N	640	GLN
1	O	241	ASN
1	O	264	ASN
1	O	340	GLN
1	O	489	GLN
1	O	491	ASN
1	O	502	GLN
1	O	524	ASN
1	O	576	ASN
1	O	635	HIS
1	O	640	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

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.

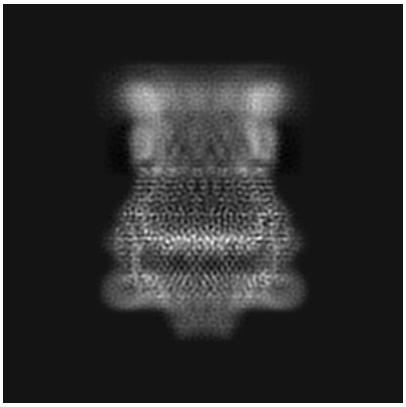
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-0327. These allow visual inspection of the internal detail of the map and identification of artifacts.

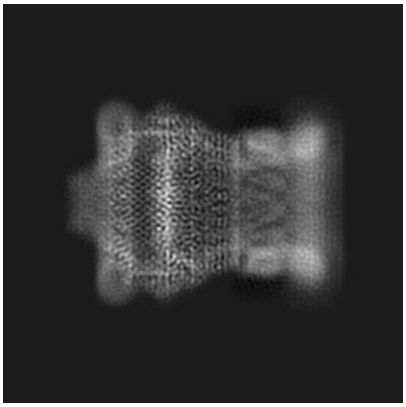
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

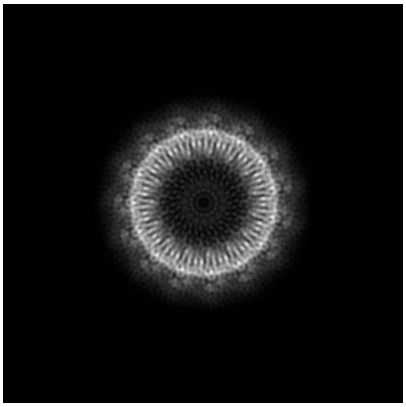
6.1.1 Primary map



X



Y

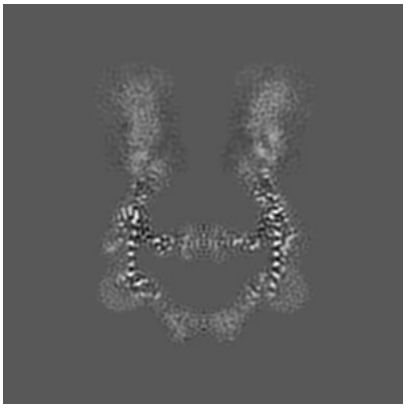


Z

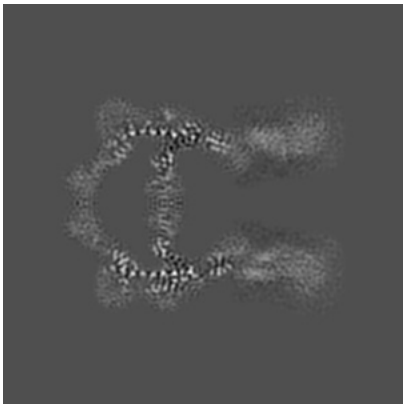
The images above show the map projected in three orthogonal directions.

6.2 Central slices

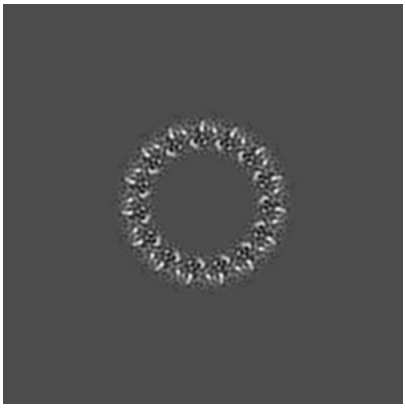
6.2.1 Primary map



X Index: 125



Y Index: 125

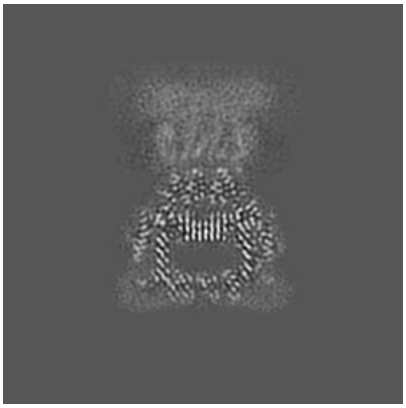


Z Index: 125

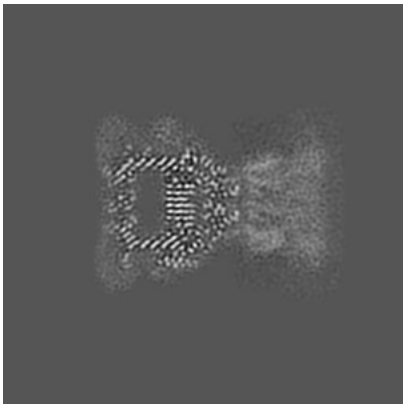
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

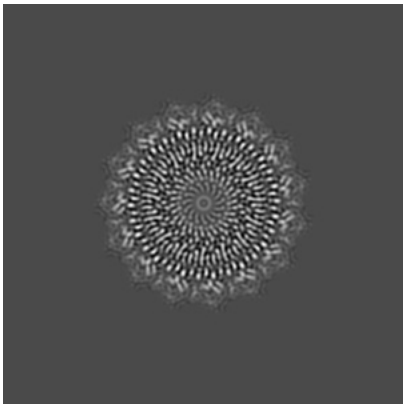
6.3.1 Primary map



X Index: 89



Y Index: 88

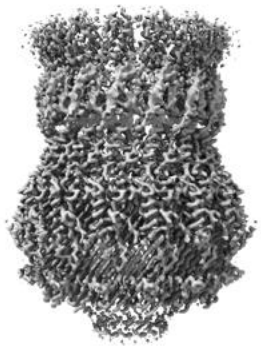


Z Index: 102

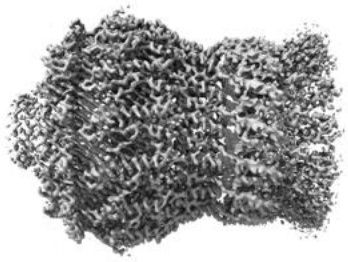
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views (i)

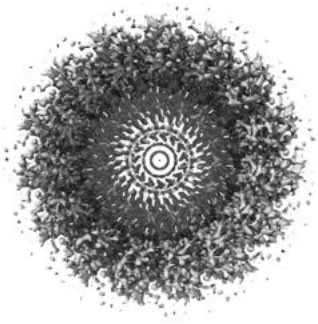
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.063795. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

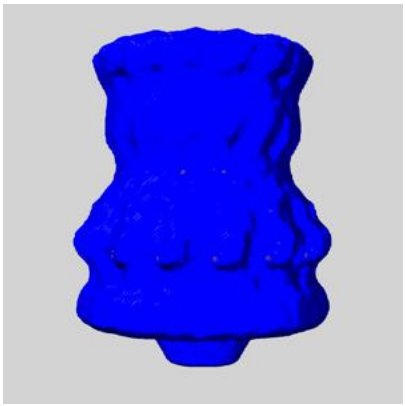
6.5 Mask visualisation (i)

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

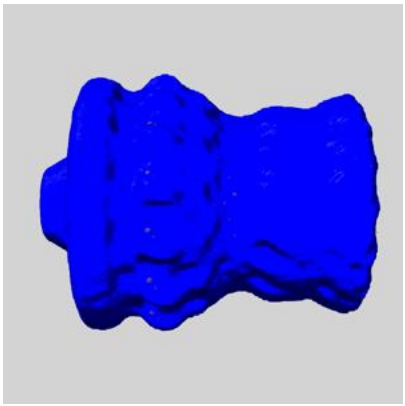
A mask typically either:

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

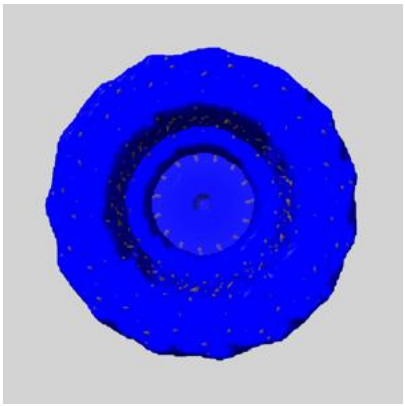
6.5.1 emd_0327_msk_1.map (i)



X



Y

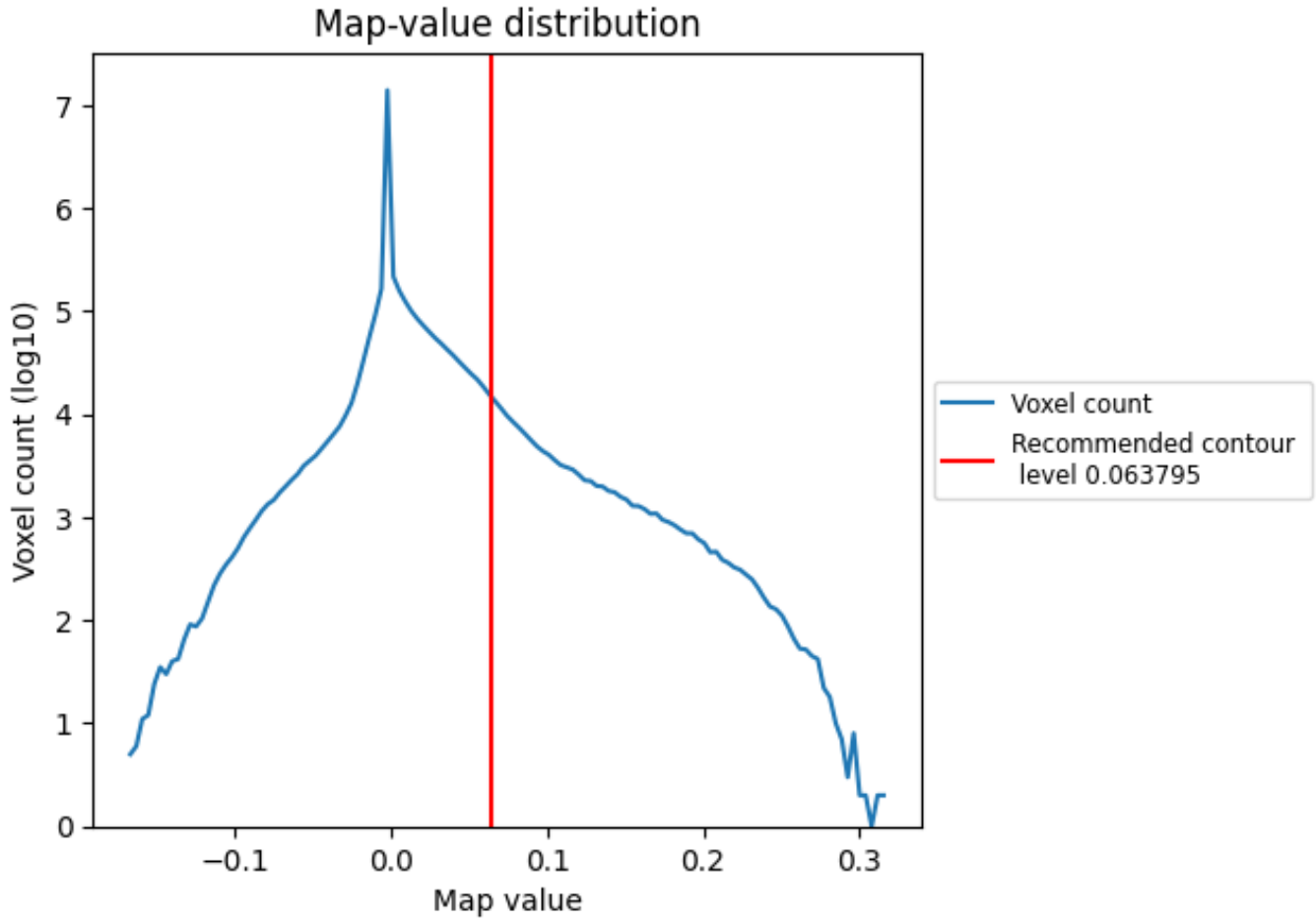


Z

7 Map analysis

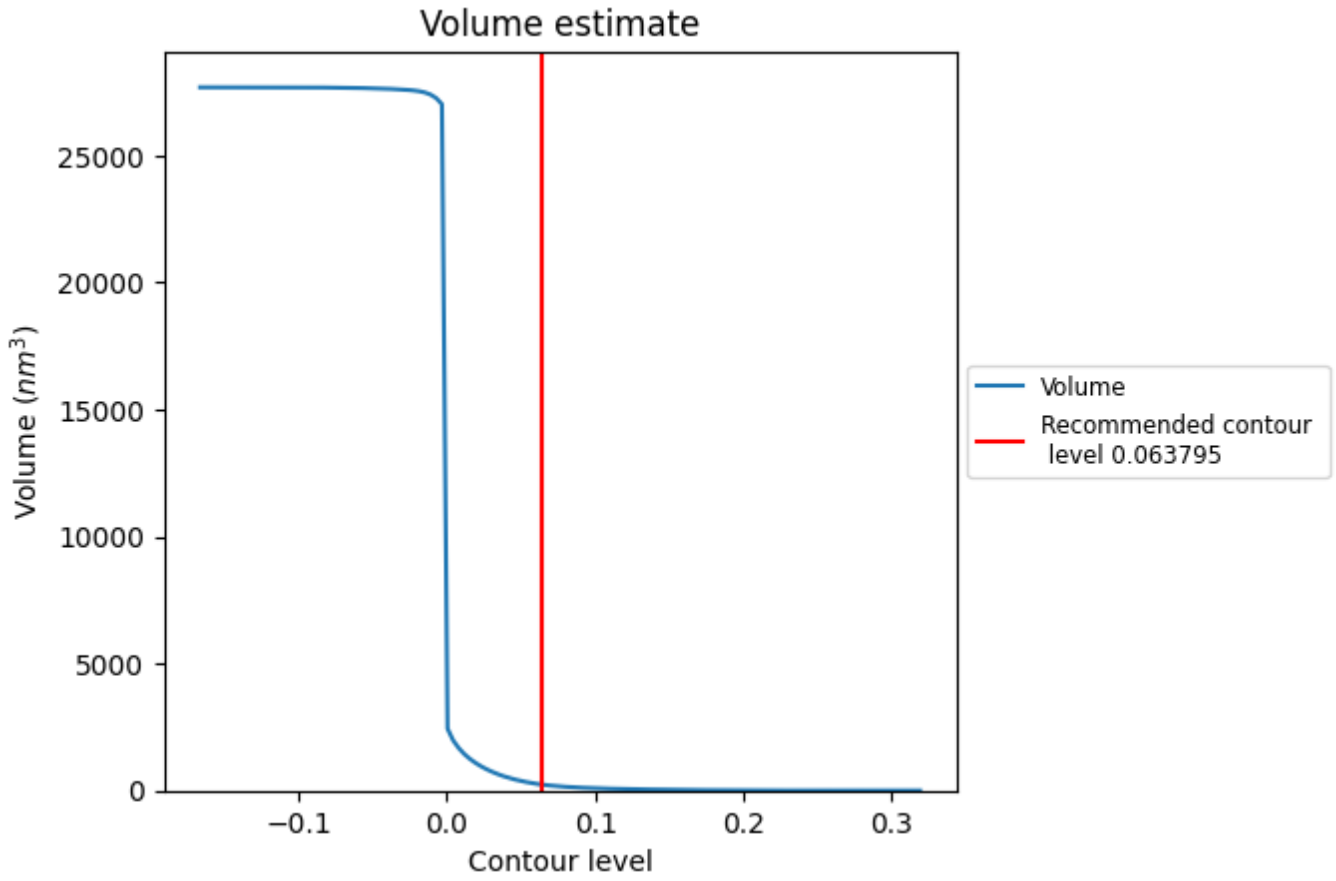
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

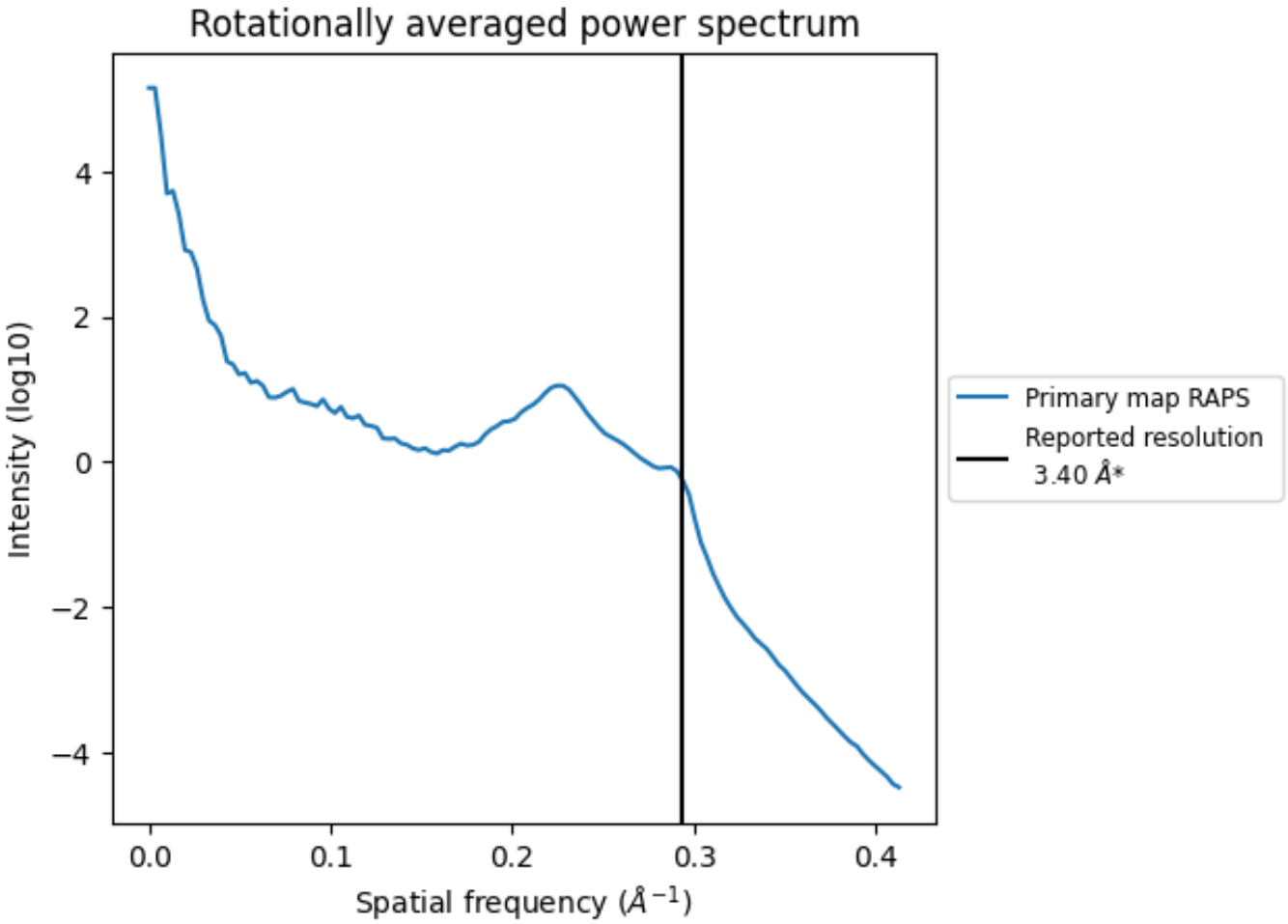
7.2 Volume estimate



The volume at the recommended contour level is 239 nm^3; this corresponds to an approximate mass of 216 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)

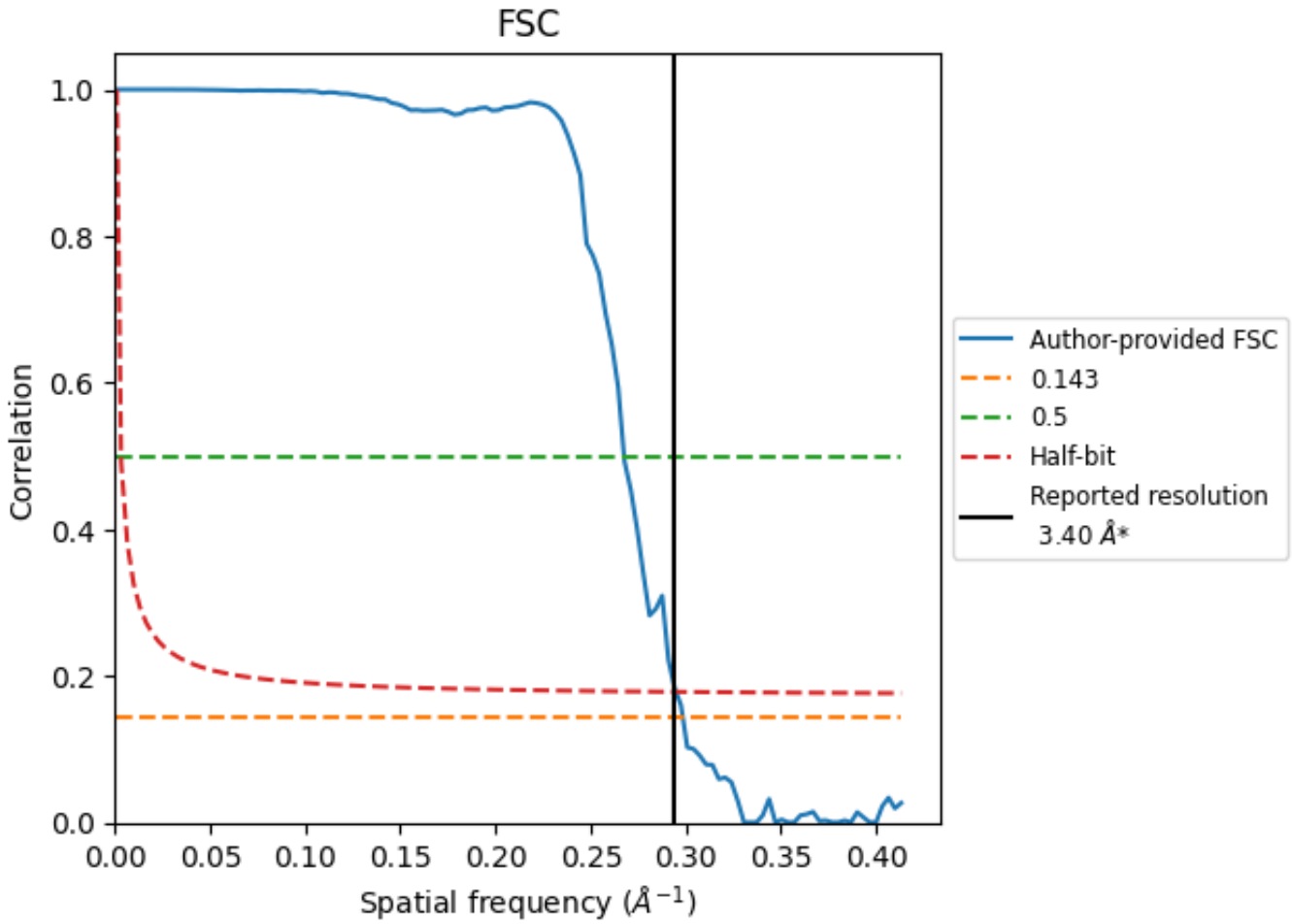


*Reported resolution corresponds to spatial frequency of 0.294 $Å^{-1}$

8 Fourier-Shell correlation

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



*Reported resolution corresponds to spatial frequency of 0.294 Å^{-1}

8.2 Resolution estimates (i)

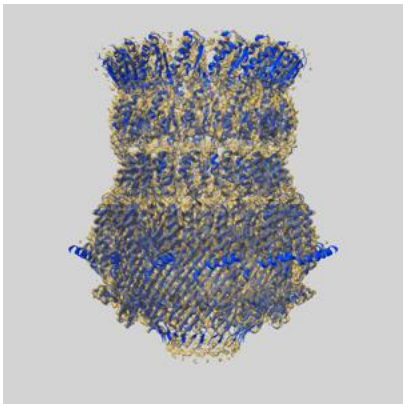
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.40	-	-
Author-provided FSC curve	3.35	3.74	3.39
Unmasked-calculated*	-	-	-

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

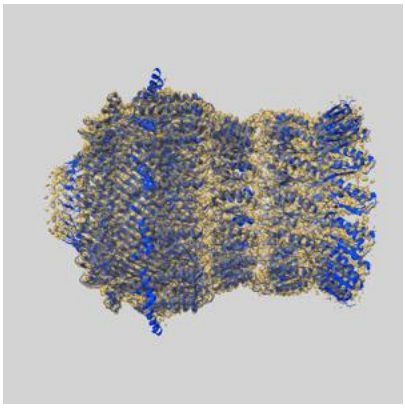
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-0327 and PDB model 6I1Y. Per-residue inclusion information can be found in section 3 on page 6.

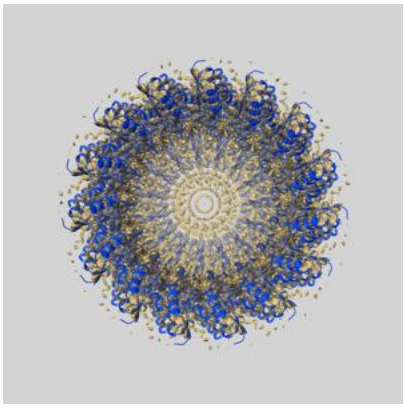
9.1 Map-model overlay



X



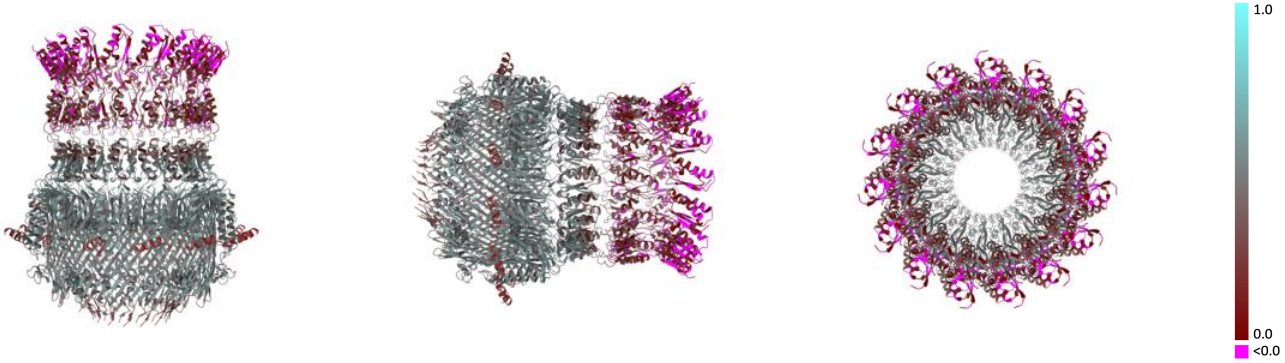
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.063795 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.

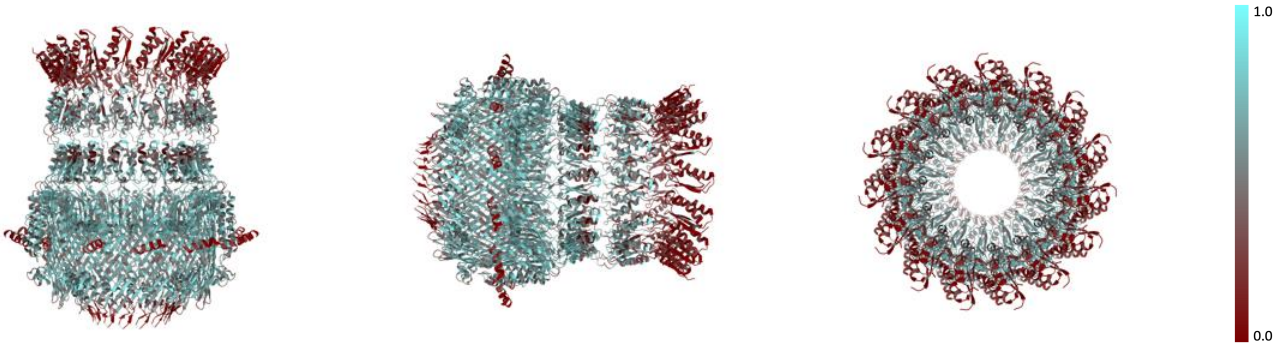
9.2 Q-score mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according 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.

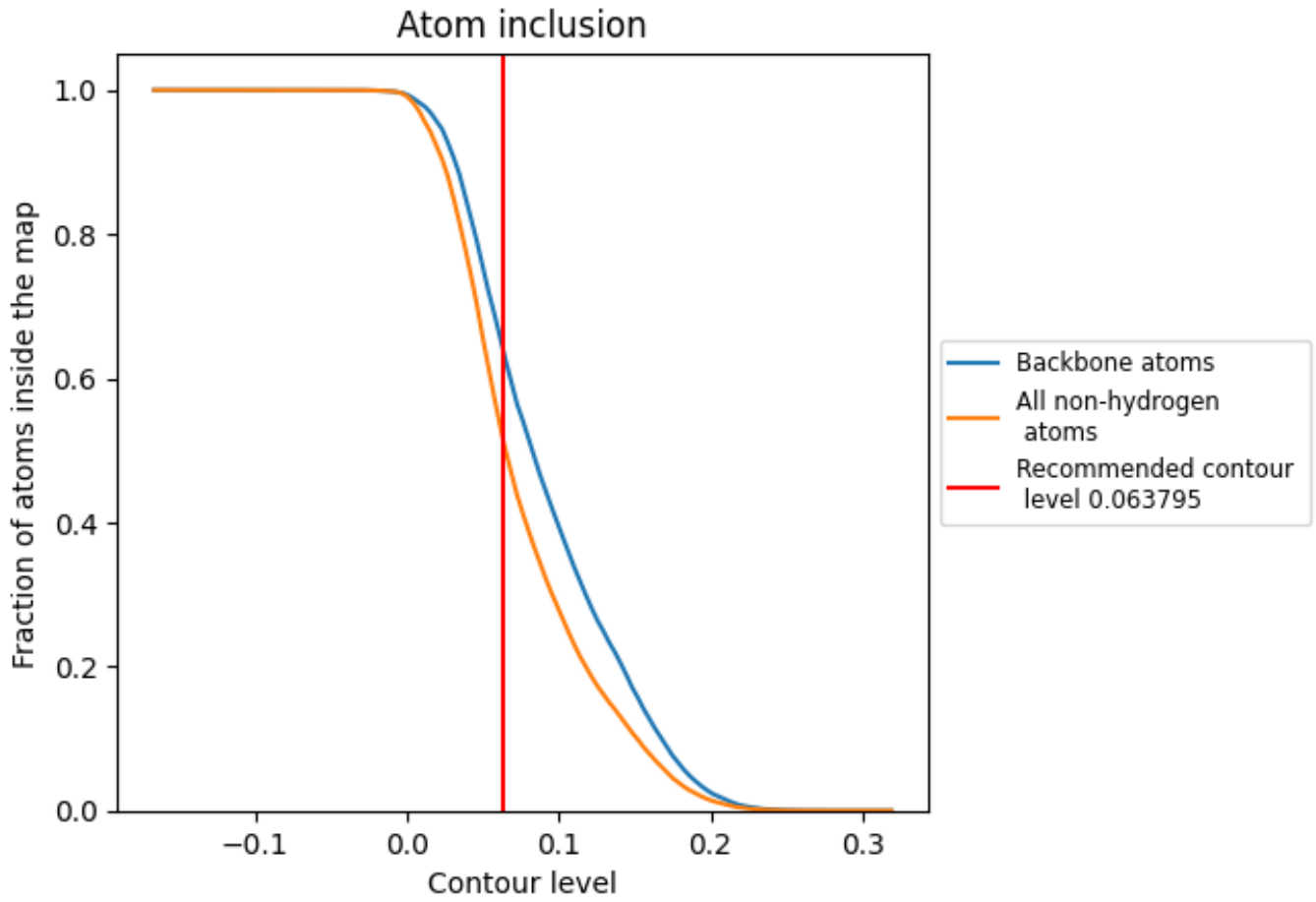
9.3 Atom inclusion mapped to coordinate model



X Y Z

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 (0.063795).

9.4 Atom inclusion (i)



At the recommended contour level, 64% of all backbone atoms, 51% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.063795) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5104	0.3920
A	0.5113	0.3920
B	0.5089	0.3910
C	0.5105	0.3910
D	0.5097	0.3900
E	0.5084	0.3930
F	0.5116	0.3930
G	0.5111	0.3910
H	0.5078	0.3910
I	0.5111	0.3910
J	0.5086	0.3920
K	0.5108	0.3930
L	0.5157	0.3910
M	0.5094	0.3920
N	0.5103	0.3910
O	0.5103	0.3920