Full wwPDB EM Validation Report

Nov 7, 2022 – 01:10 PM JST

PDB ID	:	5WQ8
EMDB ID	:	EMD-6676
Title	:	CryoEM structure of type II secretion system secretin GspD in Vibrio cholerae
Authors	:	Yan, Z.; Yin, M.; Li, X.
Deposited on	:	2016-11-23
Resolution	:	3.26 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the (i) 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 (i)) were used in the production of this report:

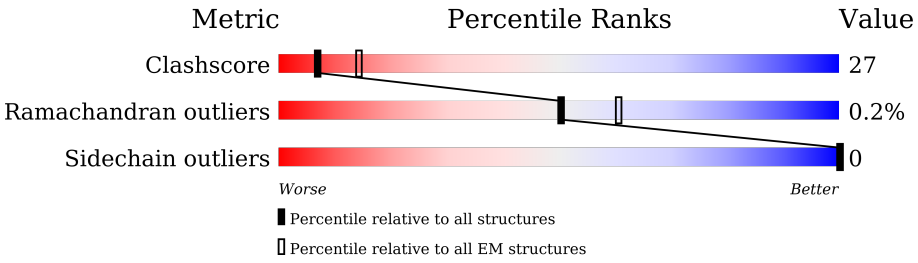
EMDB validation analysis	:	0.0.1.dev43
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.2

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 3.26 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	650	10% 43% 33% 24%
1	B	650	10% 43% 33% 24%
1	C	650	11% 43% 33% 24%
1	D	650	10% 43% 33% 24%
1	E	650	11% 43% 33% 24%
1	F	650	10% 43% 33% 24%
1	G	650	11% 43% 33% 24%
1	H	650	11% 43% 33% 24%

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Mol	Chain	Length	Quality of chain
1	I	650	10% 43% 33% 24%
1	J	650	10% 43% 33% 24%
1	K	650	10% 43% 33% 24%
1	L	650	10% 42% 34% 24%
1	M	650	11% 43% 33% 24%
1	N	650	11% 43% 33% 24%
1	O	650	10% 43% 33% 24%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 56460 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

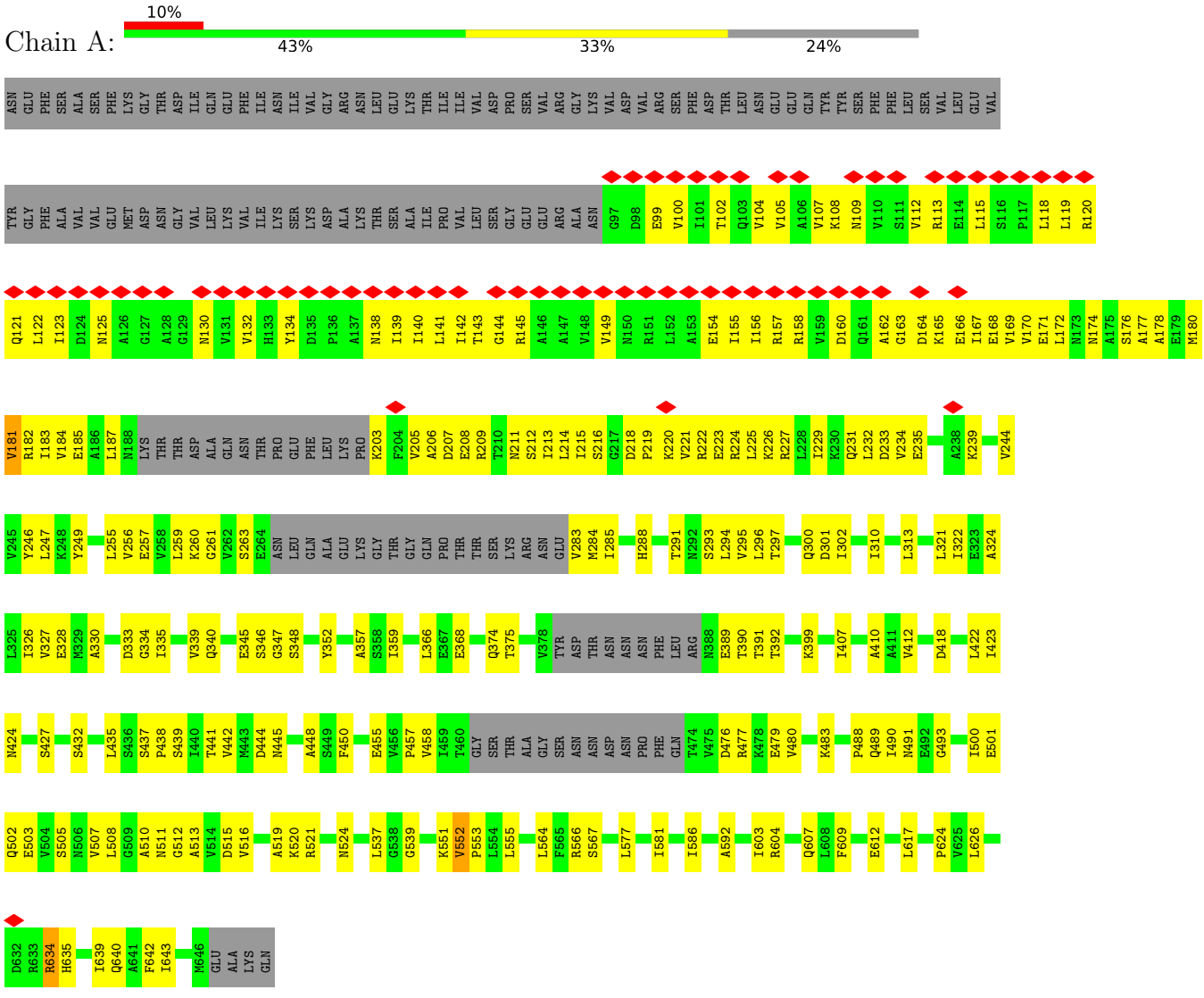
Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	B	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	C	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	D	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	E	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	F	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	G	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	H	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	I	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	J	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	K	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	L	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	M	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	N	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		
1	O	496	Total	C	N	O	S	0	0
			3764	2349	659	743	13		

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.

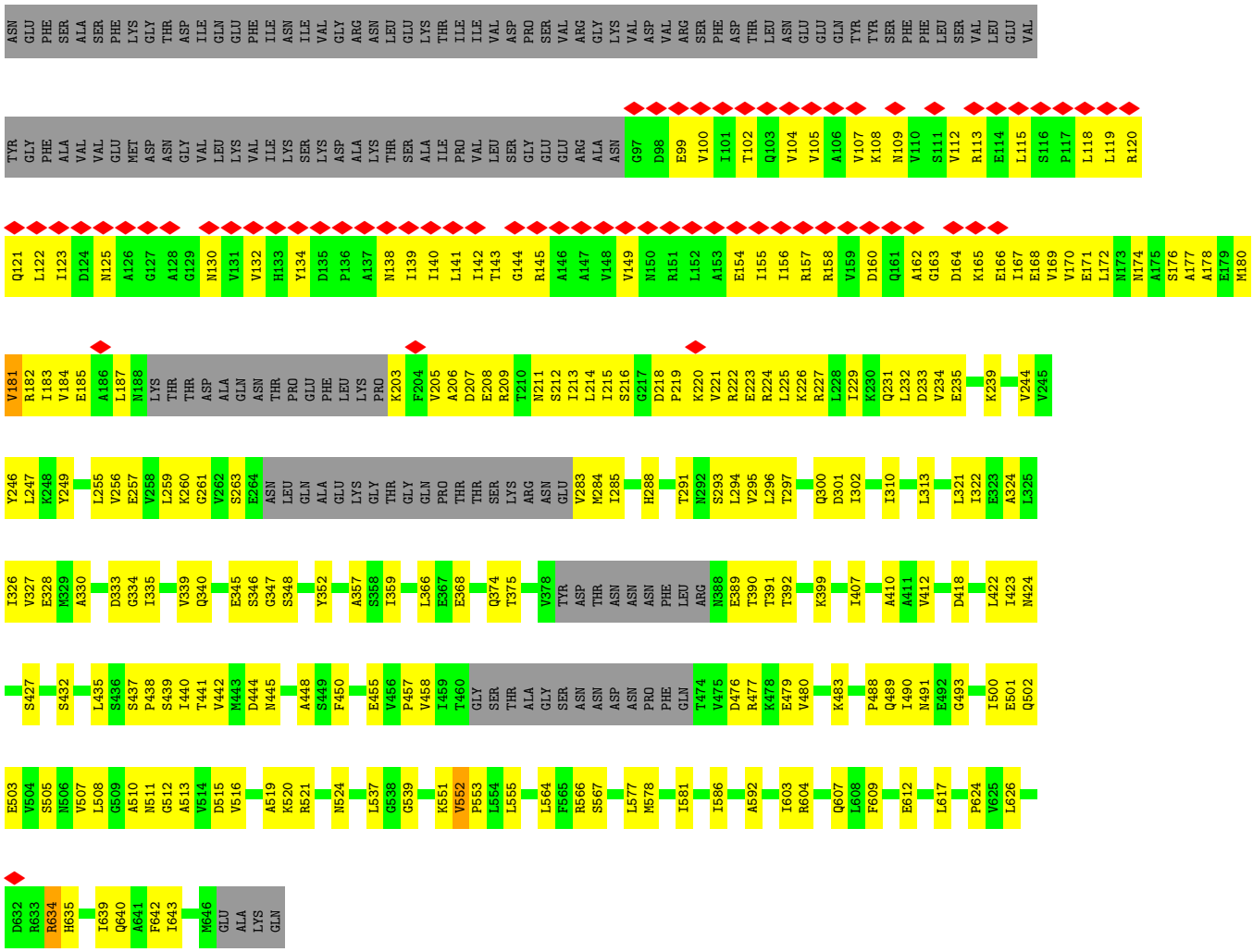
• Molecule 1: Type II secretion system protein D

Chain A:



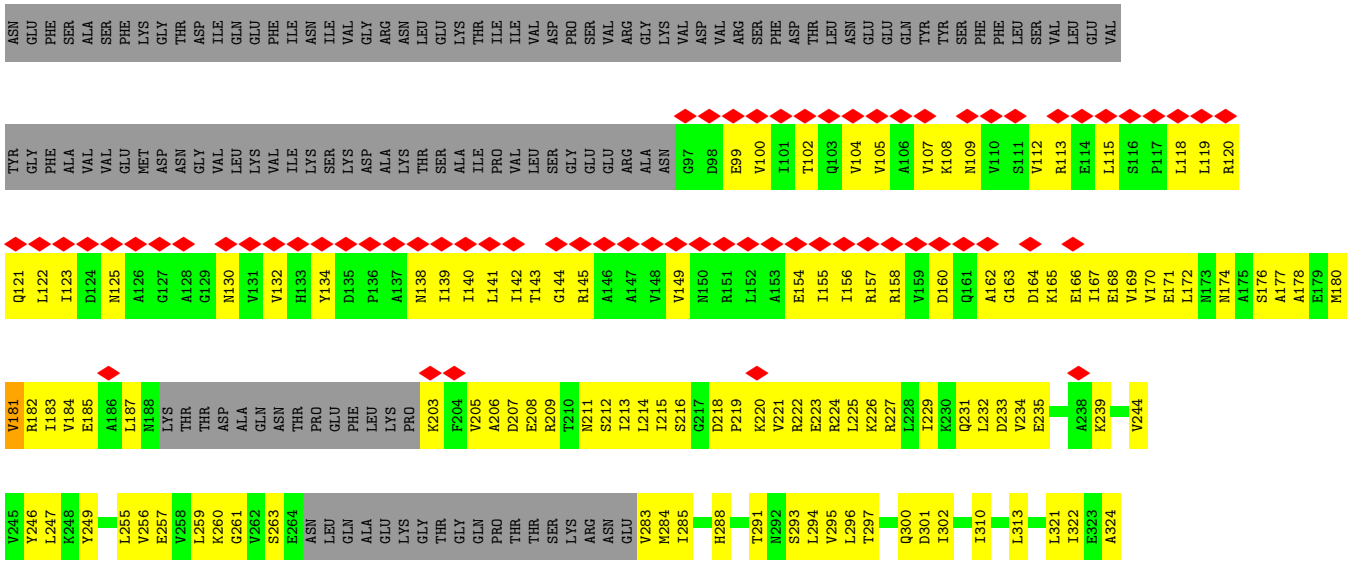
• Molecule 1: Type II secretion system protein D

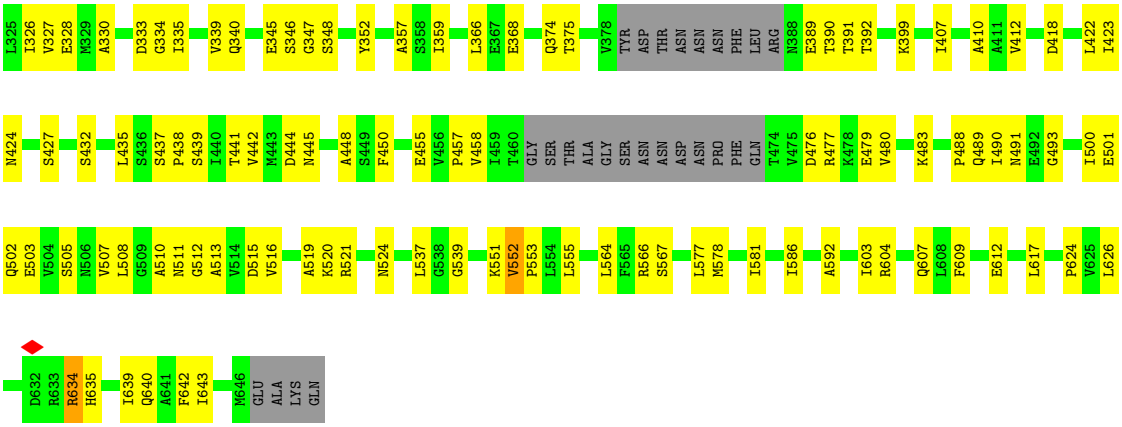
Chain B:



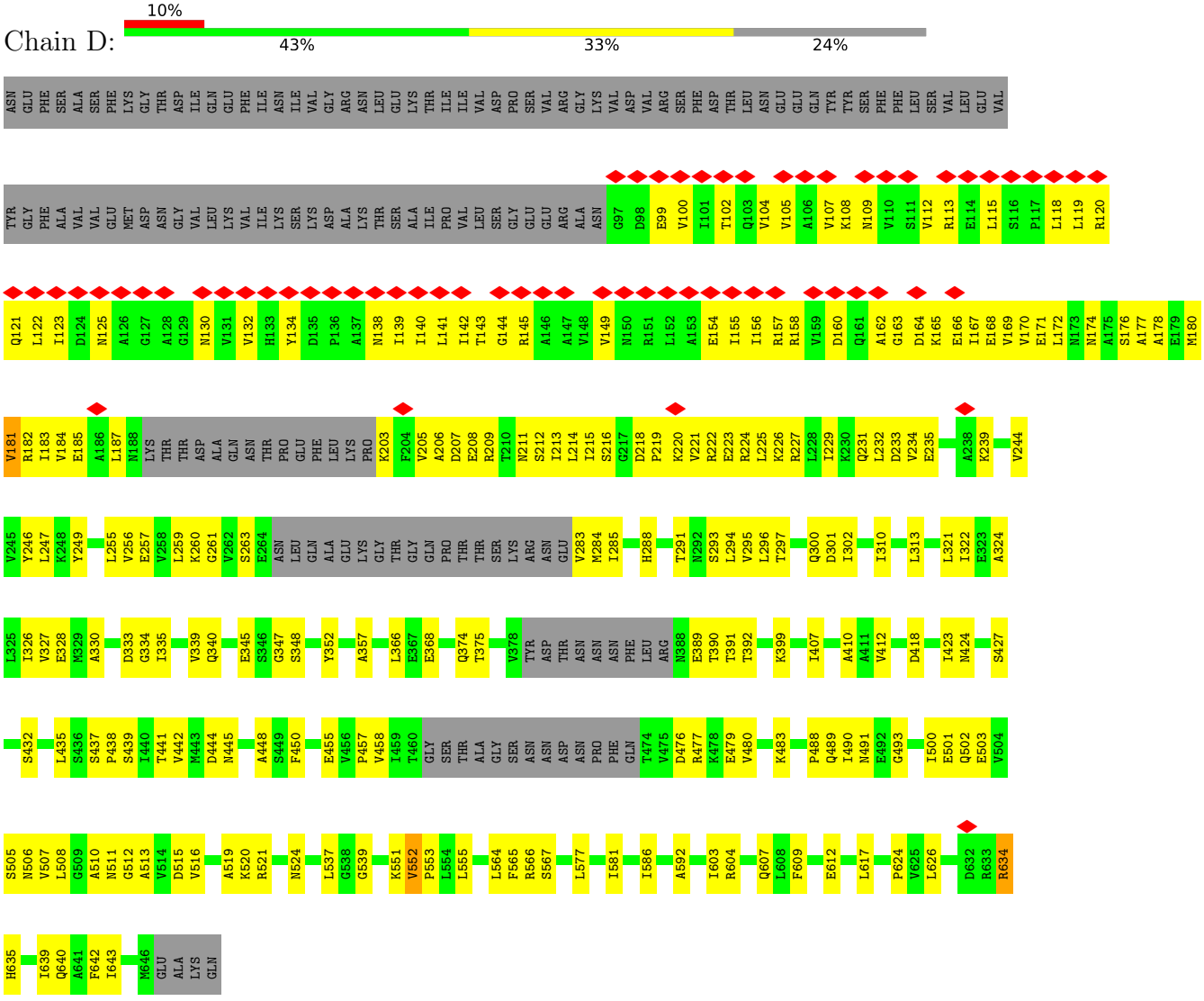
• Molecule 1: Type II secretion system protein D

Chain C:

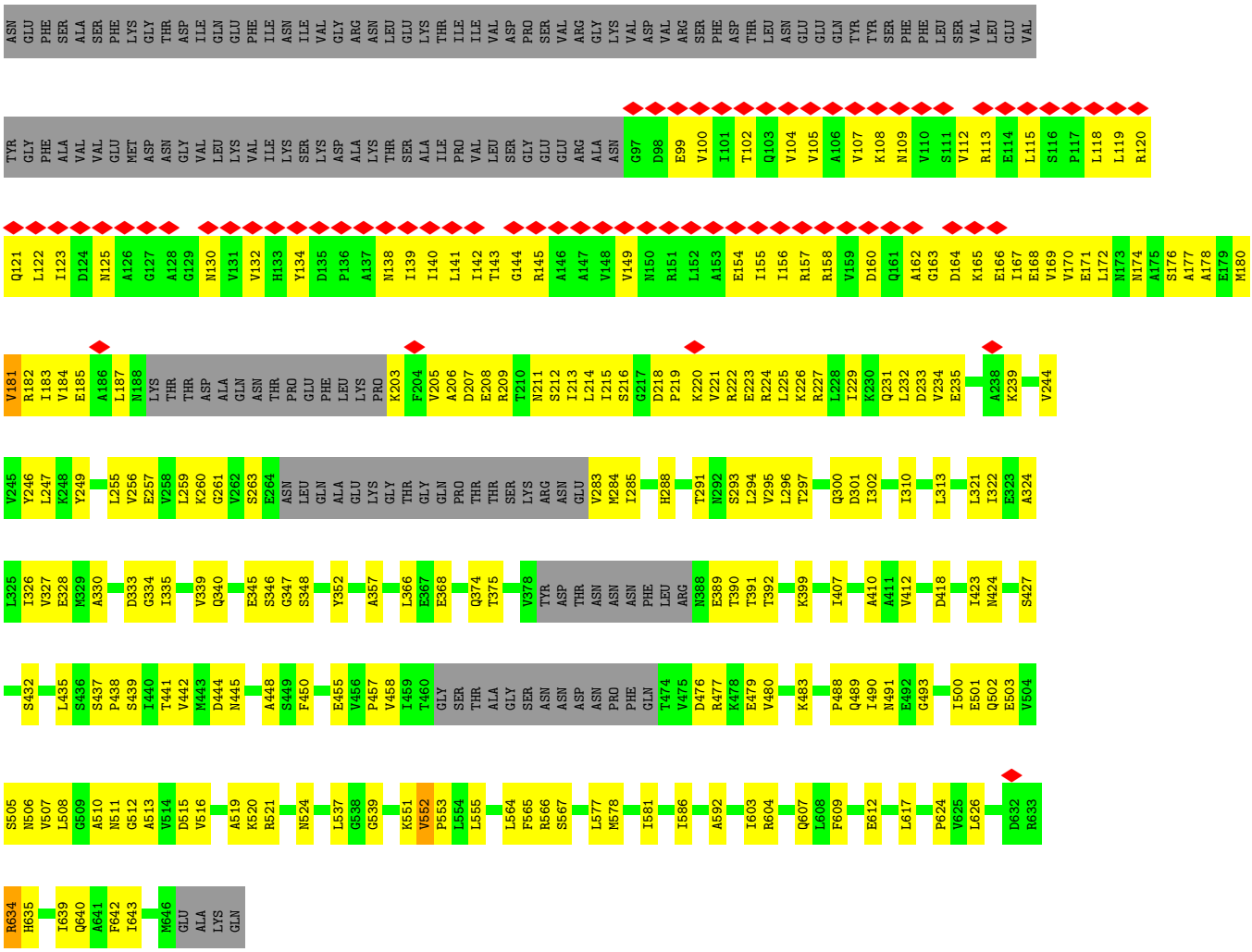




• Molecule 1: Type II secretion system protein D

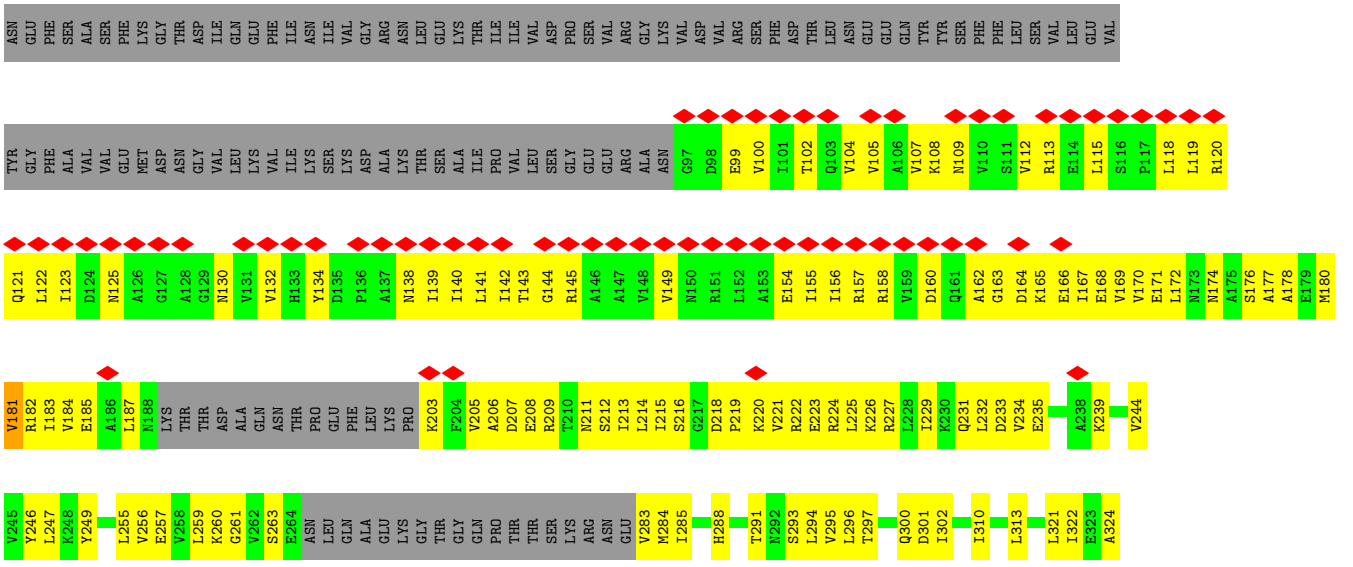


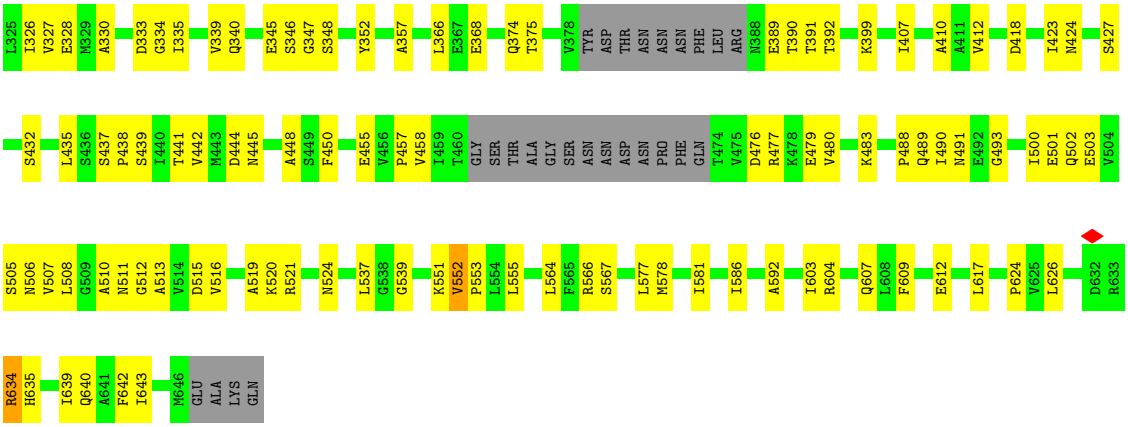
• Molecule 1: Type II secretion system protein D



• Molecule 1: Type II secretion system protein D

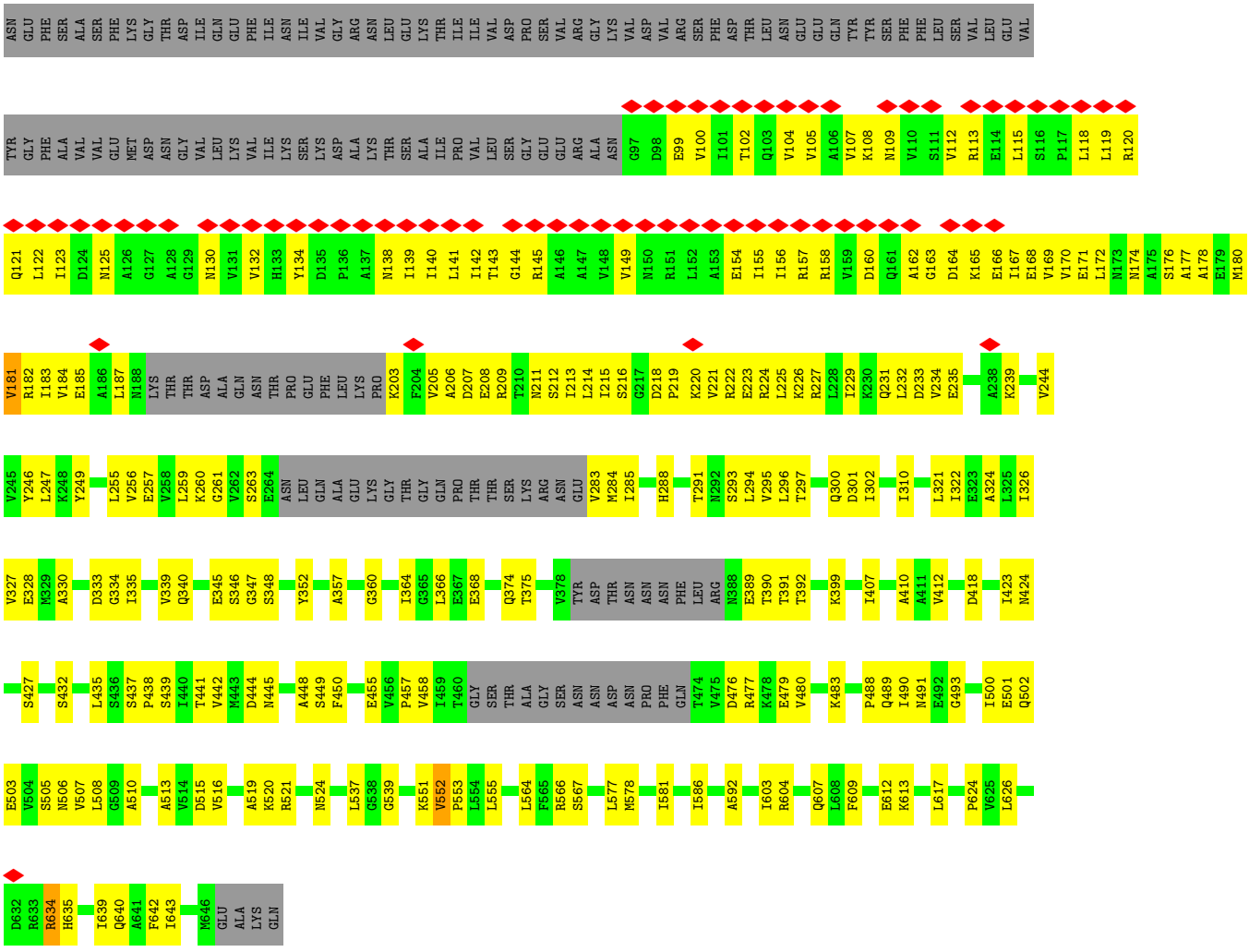
Chain F:





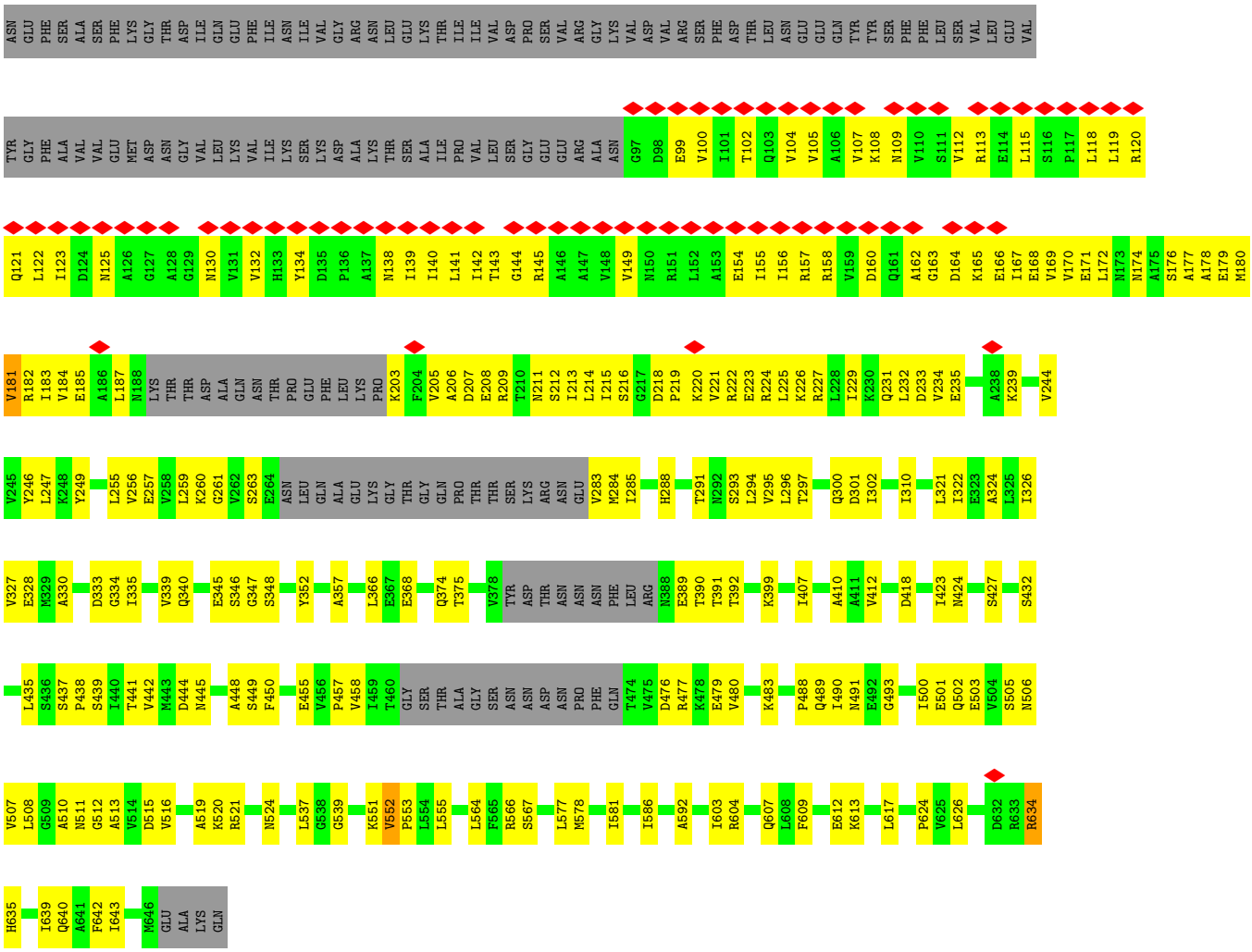
• Molecule 1: Type II secretion system protein D

Chain G:



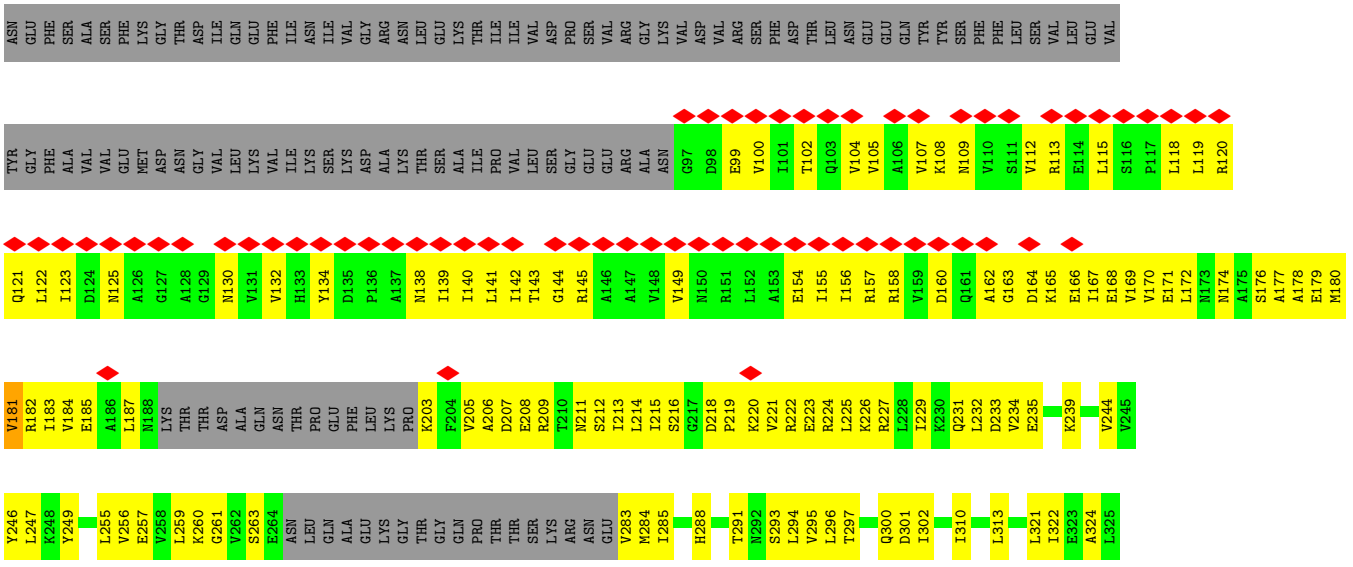
• Molecule 1: Type II secretion system protein D

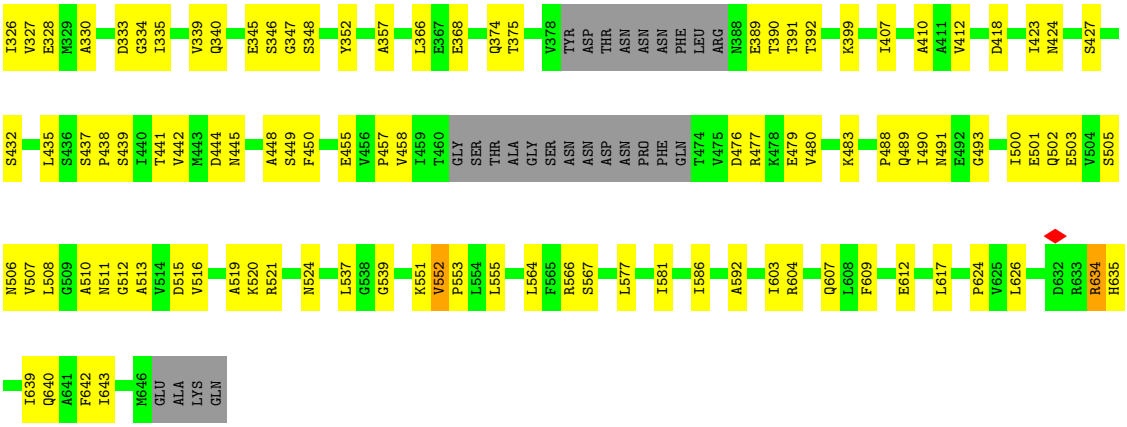
Chain H:



• Molecule 1: Type II secretion system protein D

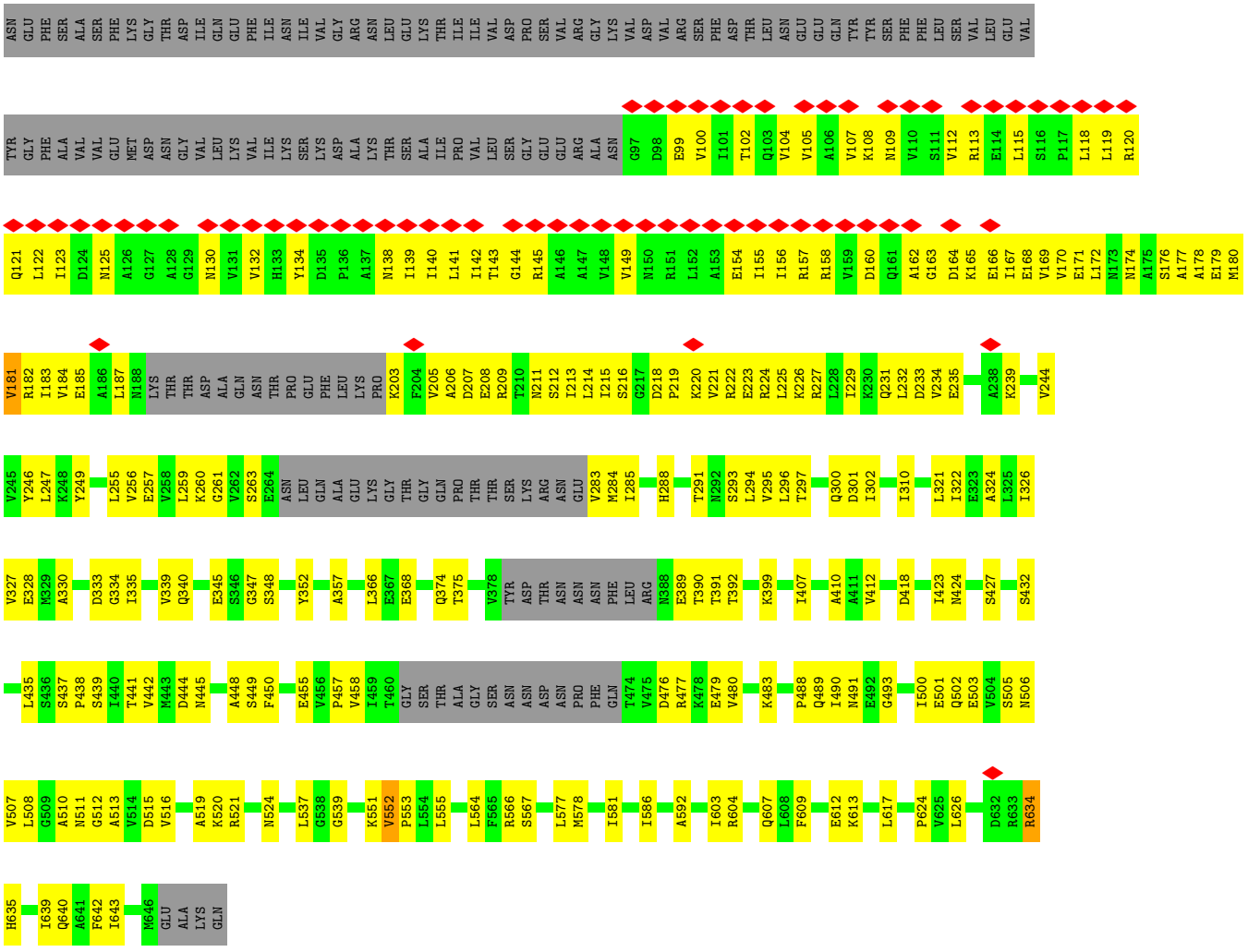
Chain I:





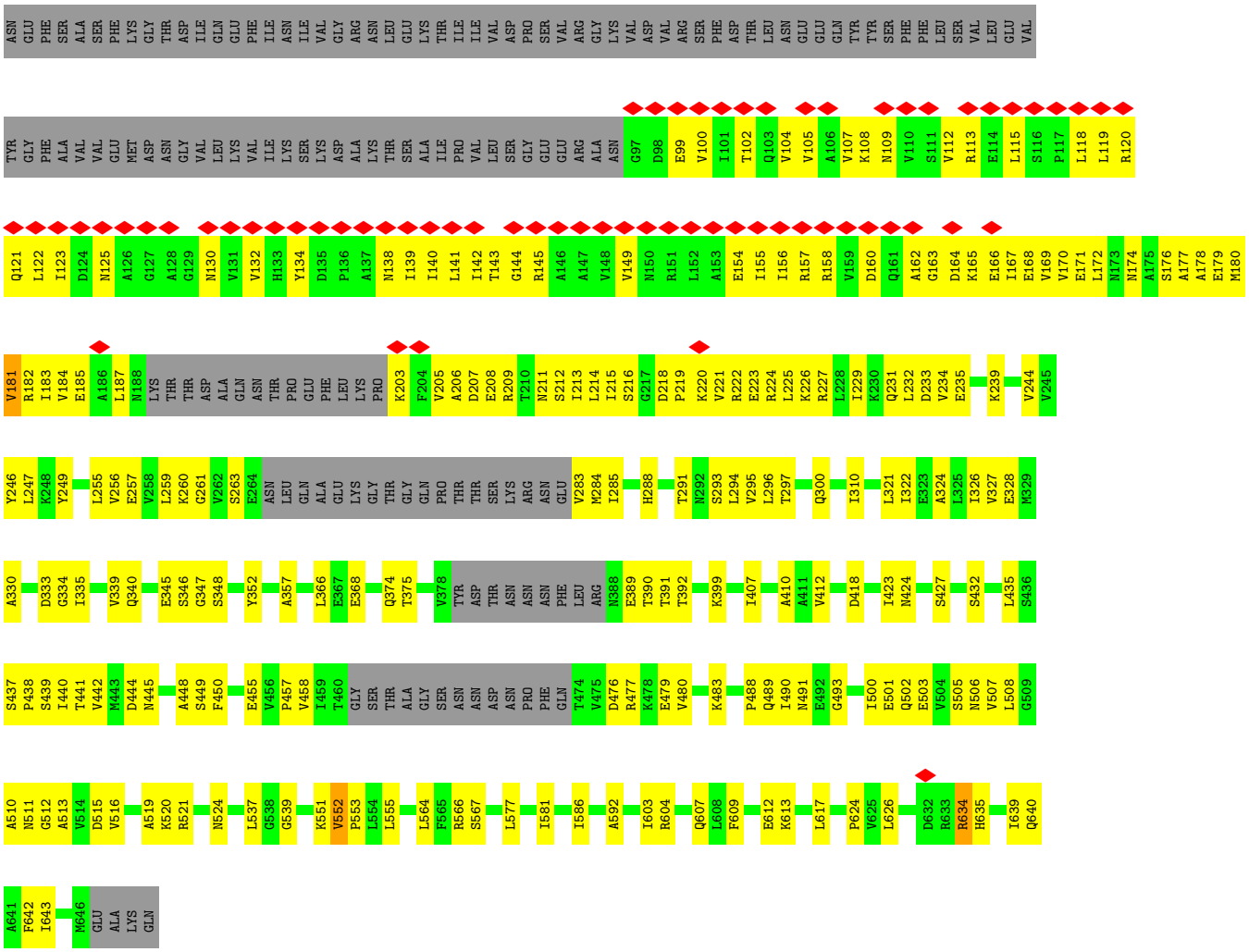
• Molecule 1: Type II secretion system protein D

Chain J:



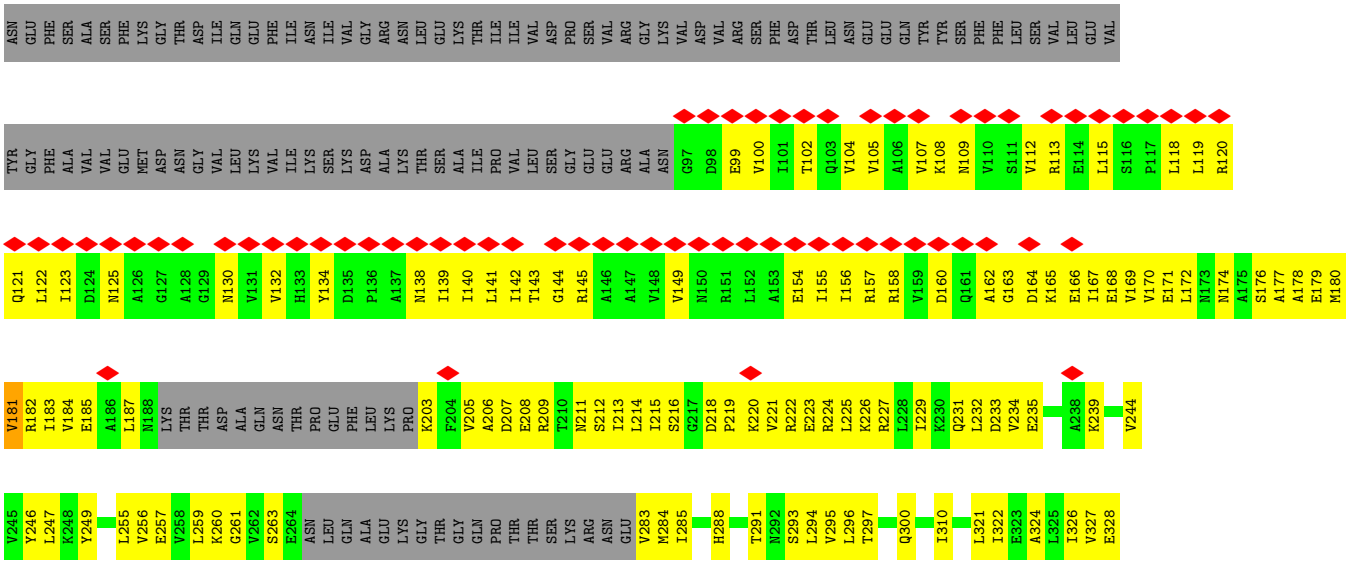
• Molecule 1: Type II secretion system protein D

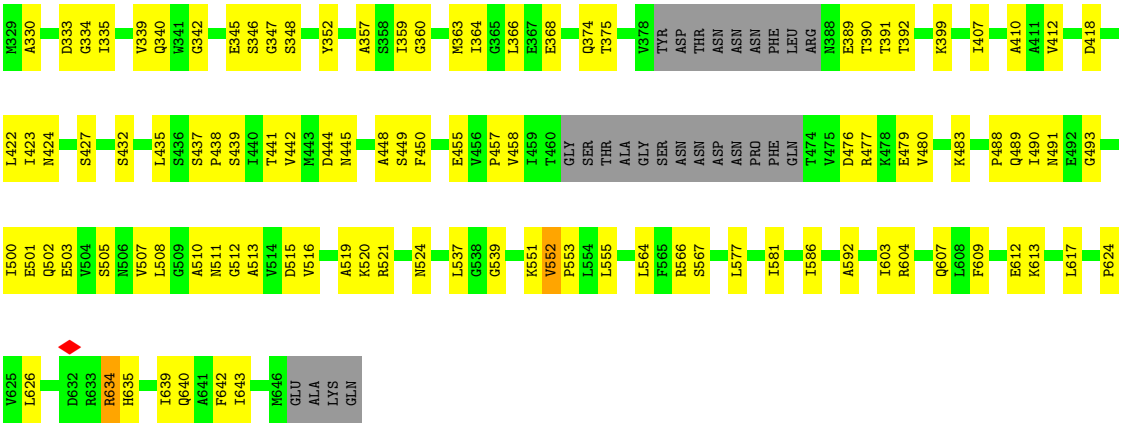
Chain K:



• Molecule 1: Type II secretion system protein D

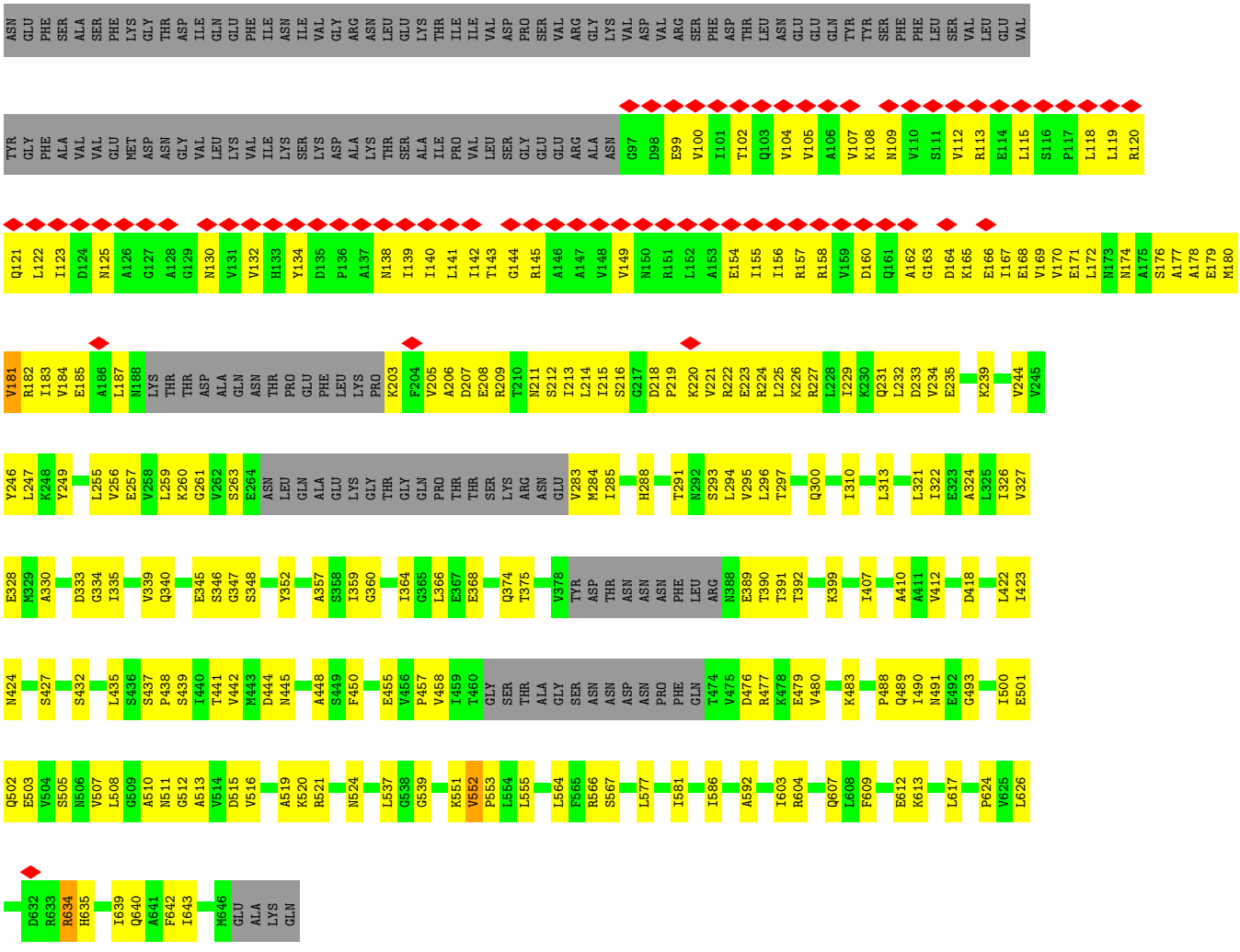
Chain L:





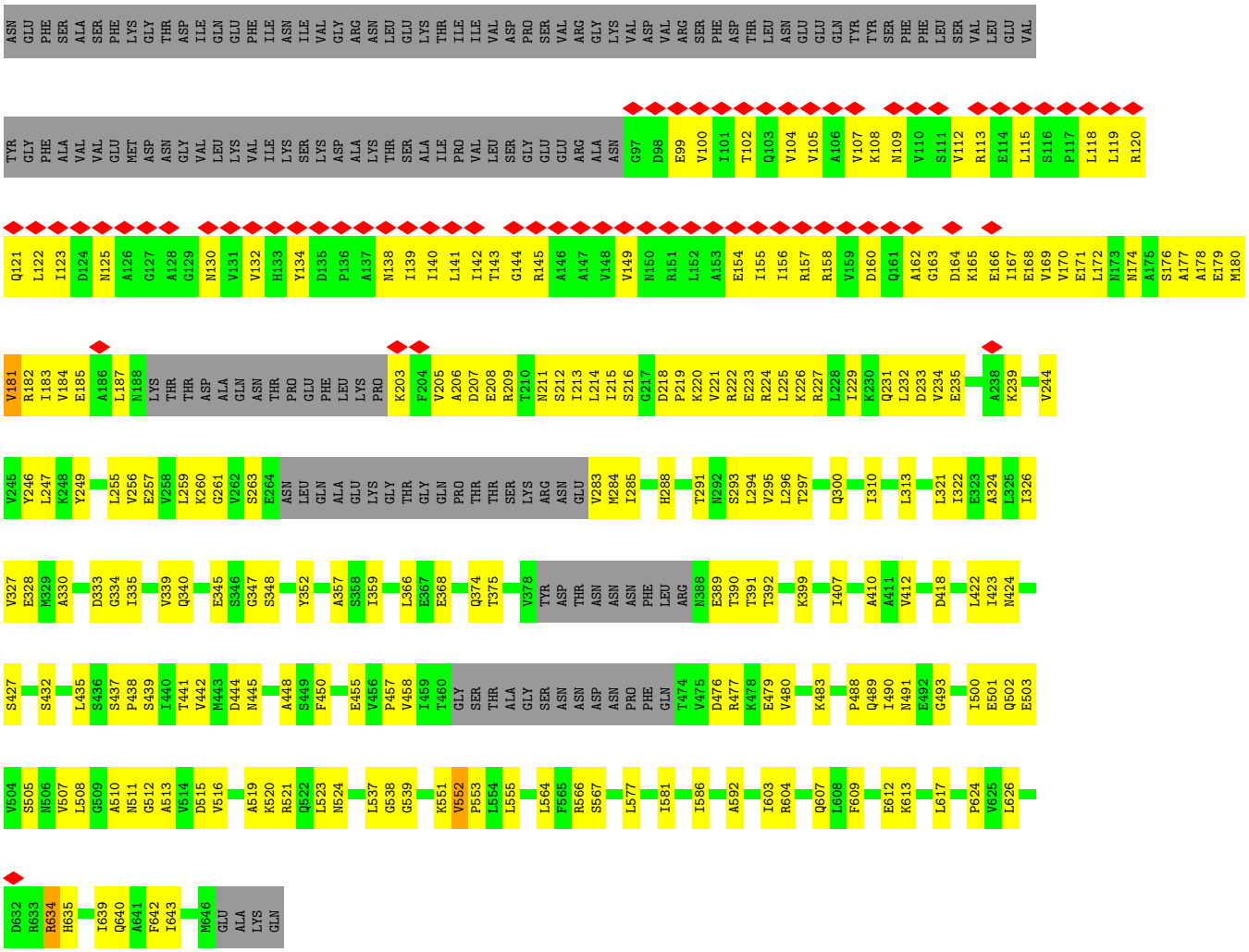
• Molecule 1: Type II secretion system protein D

Chain M:



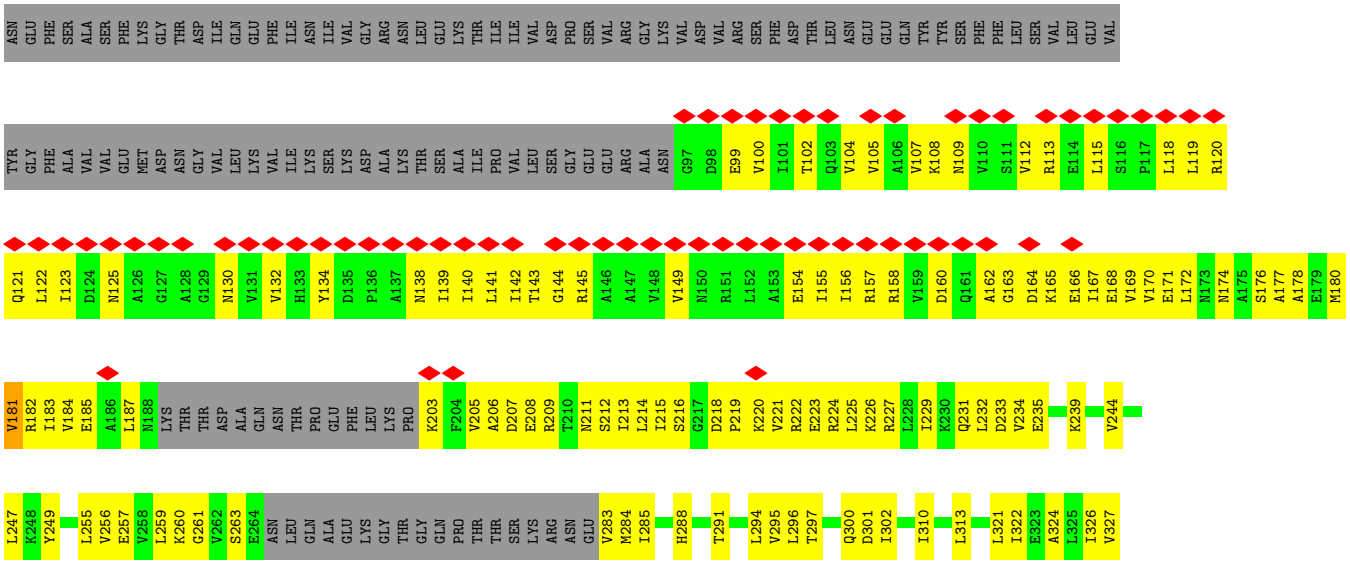
• Molecule 1: Type II secretion system protein D

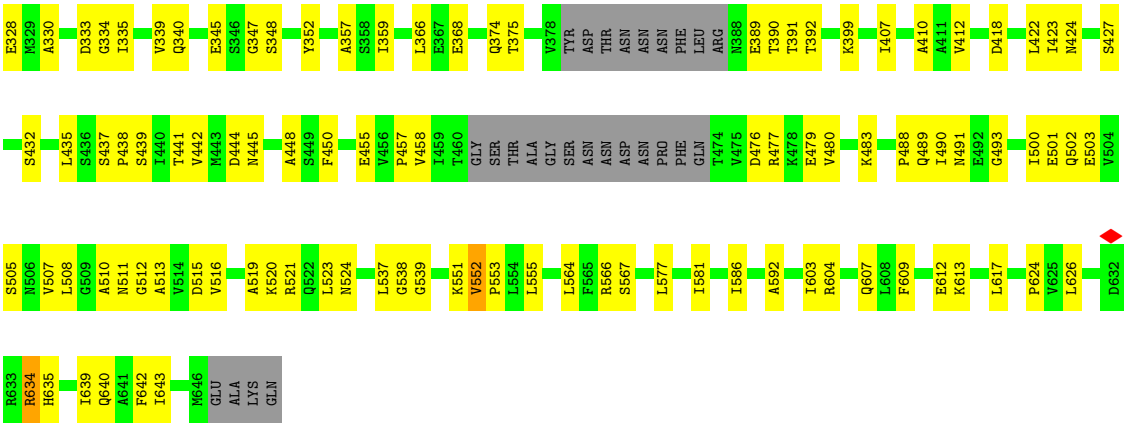
Chain N:



• Molecule 1: Type II secretion system protein D

Chain O:




E328 M329 A330 D333 G334 I335 V339 Q340 E345 S346 G347 S348 Y352 A357 S358 I359 L366 E367 E368 Q374 T375 V378 TYR ASP THR ASN ASN ASN PHE LEU ARG N388 E389 T390 T391 T392 K399 I407 A410 A411 V412 D418 L422 I423 N424 S427
S432 L435 S436 S437 P438 S439 I440 T441 V442 M443 D444 N445 A448 S449 F450 E455 V456 P457 V458 I459 T460 GLY SER THR ALA GLY SER ASN ASN ASP ASN PRO PHE GLN T474 V475 D476 R477 K478 E479 V480 K483 P488 Q489 I490 N491 E492 G493 I500 E501 Q502 E503 V504
S505 N506 V507 L508 G509 A510 N511 G512 A513 V514 D515 V516 A519 K520 R521 Q522 L523 N524 L537 G538 G539 K551 V552 P553 L564 L555 L564 F565 R566 S567 L577 I581 I586 A592 I603 R604 Q607 L608 F609 E612 K613 L617 P624 V625 L626 D632
R633 R634 H635 I639 Q640 A641 F642 I643 M646 GLU ALA LYS GLN

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C15	Depositor
Number of particles used	41579	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	1.6	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.271	Depositor
Minimum map value	-0.127	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.005	Depositor
Recommended contour level	0.02	Depositor
Map size (Å)	501.6, 501.6, 501.6	wwPDB
Map dimensions	380, 380, 380	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.32, 1.32, 1.32	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	0.42	0/3794	0.63	3/5130 (0.1%)
1	B	0.42	0/3794	0.63	3/5130 (0.1%)
1	C	0.42	0/3794	0.63	3/5130 (0.1%)
1	D	0.42	0/3794	0.63	3/5130 (0.1%)
1	E	0.42	0/3794	0.63	3/5130 (0.1%)
1	F	0.42	0/3794	0.63	3/5130 (0.1%)
1	G	0.42	0/3794	0.63	3/5130 (0.1%)
1	H	0.42	0/3794	0.63	3/5130 (0.1%)
1	I	0.42	0/3794	0.63	3/5130 (0.1%)
1	J	0.42	0/3794	0.63	3/5130 (0.1%)
1	K	0.42	0/3794	0.63	3/5130 (0.1%)
1	L	0.42	0/3794	0.63	3/5130 (0.1%)
1	M	0.42	0/3794	0.63	3/5130 (0.1%)
1	N	0.42	0/3794	0.63	3/5130 (0.1%)
1	O	0.42	0/3794	0.63	3/5130 (0.1%)
All	All	0.42	0/56910	0.63	45/76950 (0.1%)

There are no bond length outliers.

All (45) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	552	VAL	C-N-CD	-6.93	105.36	120.60
1	M	552	VAL	C-N-CD	-6.92	105.37	120.60
1	N	552	VAL	C-N-CD	-6.92	105.39	120.60
1	I	552	VAL	C-N-CD	-6.91	105.39	120.60
1	A	552	VAL	C-N-CD	-6.91	105.39	120.60
1	B	552	VAL	C-N-CD	-6.91	105.39	120.60
1	D	552	VAL	C-N-CD	-6.91	105.40	120.60
1	L	552	VAL	C-N-CD	-6.91	105.40	120.60
1	O	552	VAL	C-N-CD	-6.91	105.40	120.60
1	J	552	VAL	C-N-CD	-6.91	105.40	120.60
1	K	552	VAL	C-N-CD	-6.91	105.41	120.60
1	E	552	VAL	C-N-CD	-6.90	105.41	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	552	VAL	C-N-CD	-6.90	105.42	120.60
1	C	552	VAL	C-N-CD	-6.90	105.43	120.60
1	F	552	VAL	C-N-CD	-6.89	105.44	120.60
1	L	634	ARG	N-CA-C	5.34	125.42	111.00
1	G	634	ARG	N-CA-C	5.33	125.40	111.00
1	B	634	ARG	N-CA-C	5.33	125.39	111.00
1	C	634	ARG	N-CA-C	5.33	125.39	111.00
1	N	634	ARG	N-CA-C	5.32	125.37	111.00
1	H	634	ARG	N-CA-C	5.32	125.36	111.00
1	A	634	ARG	N-CA-C	5.32	125.36	111.00
1	M	634	ARG	N-CA-C	5.32	125.36	111.00
1	F	634	ARG	N-CA-C	5.32	125.35	111.00
1	K	634	ARG	N-CA-C	5.32	125.35	111.00
1	D	634	ARG	N-CA-C	5.31	125.34	111.00
1	E	634	ARG	N-CA-C	5.31	125.34	111.00
1	I	634	ARG	N-CA-C	5.31	125.34	111.00
1	J	634	ARG	N-CA-C	5.31	125.34	111.00
1	O	634	ARG	N-CA-C	5.31	125.33	111.00
1	M	552	VAL	C-N-CA	5.25	144.07	122.00
1	H	552	VAL	C-N-CA	5.25	144.06	122.00
1	D	552	VAL	C-N-CA	5.25	144.06	122.00
1	I	552	VAL	C-N-CA	5.25	144.06	122.00
1	J	552	VAL	C-N-CA	5.25	144.05	122.00
1	A	552	VAL	C-N-CA	5.25	144.04	122.00
1	E	552	VAL	C-N-CA	5.25	144.03	122.00
1	L	552	VAL	C-N-CA	5.25	144.03	122.00
1	B	552	VAL	C-N-CA	5.24	144.02	122.00
1	F	552	VAL	C-N-CA	5.24	144.03	122.00
1	G	552	VAL	C-N-CA	5.24	144.03	122.00
1	O	552	VAL	C-N-CA	5.24	144.02	122.00
1	K	552	VAL	C-N-CA	5.24	144.02	122.00
1	N	552	VAL	C-N-CA	5.24	144.01	122.00
1	C	552	VAL	C-N-CA	5.24	144.00	122.00

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3764	0	3869	239	0
1	B	3764	0	3869	239	0
1	C	3764	0	3869	235	0
1	D	3764	0	3869	233	0
1	E	3764	0	3869	235	0
1	F	3764	0	3869	235	0
1	G	3764	0	3869	236	0
1	H	3764	0	3869	236	0
1	I	3764	0	3869	235	0
1	J	3764	0	3869	243	0
1	K	3764	0	3869	238	0
1	L	3764	0	3869	236	0
1	M	3764	0	3869	235	0
1	N	3764	0	3869	238	0
1	O	3764	0	3869	239	0
All	All	56460	0	58035	3106	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 27.

All (3106) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:234:VAL:O	1:C:209:ARG:NH1	1.72	1.22
1:A:234:VAL:O	1:B:209:ARG:NH1	1.72	1.22
1:I:234:VAL:O	1:J:209:ARG:NH1	1.72	1.21
1:M:234:VAL:O	1:N:209:ARG:NH1	1.73	1.21
1:N:234:VAL:O	1:O:209:ARG:NH1	1.72	1.21
1:F:234:VAL:O	1:G:209:ARG:NH1	1.73	1.20
1:H:234:VAL:O	1:I:209:ARG:NH1	1.73	1.20
1:C:234:VAL:O	1:D:209:ARG:NH1	1.73	1.20
1:E:234:VAL:O	1:F:209:ARG:NH1	1.72	1.20
1:J:234:VAL:O	1:K:209:ARG:NH1	1.72	1.20
1:L:234:VAL:O	1:M:209:ARG:NH1	1.72	1.20
1:A:209:ARG:NH1	1:O:234:VAL:O	1.73	1.19
1:G:234:VAL:O	1:H:209:ARG:NH1	1.73	1.19
1:D:234:VAL:O	1:E:209:ARG:NH1	1.72	1.19
1:K:234:VAL:O	1:L:209:ARG:NH1	1.73	1.17
1:J:167:ILE:HA	1:J:215:ILE:O	1.49	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:167:ILE:HA	1:I:215:ILE:O	1.49	1.12
1:K:167:ILE:HA	1:K:215:ILE:O	1.49	1.12
1:D:167:ILE:HA	1:D:215:ILE:O	1.49	1.11
1:C:167:ILE:HA	1:C:215:ILE:O	1.49	1.11
1:E:167:ILE:HA	1:E:215:ILE:O	1.49	1.11
1:H:167:ILE:HA	1:H:215:ILE:O	1.49	1.10
1:B:167:ILE:HA	1:B:215:ILE:O	1.49	1.10
1:L:167:ILE:HA	1:L:215:ILE:O	1.49	1.10
1:A:167:ILE:HA	1:A:215:ILE:O	1.49	1.09
1:H:612:GLU:HG3	1:I:642:PHE:CE2	1.88	1.09
1:F:167:ILE:HA	1:F:215:ILE:O	1.49	1.09
1:K:612:GLU:HG3	1:L:642:PHE:CE2	1.88	1.09
1:M:612:GLU:HG3	1:N:642:PHE:CE2	1.88	1.09
1:L:612:GLU:HG3	1:M:642:PHE:CE2	1.88	1.09
1:O:167:ILE:HA	1:O:215:ILE:O	1.49	1.09
1:G:167:ILE:HA	1:G:215:ILE:O	1.49	1.08
1:I:612:GLU:HG3	1:J:642:PHE:CE2	1.88	1.08
1:N:167:ILE:HA	1:N:215:ILE:O	1.49	1.08
1:A:642:PHE:CE2	1:O:612:GLU:HG3	1.88	1.08
1:J:612:GLU:HG3	1:K:642:PHE:CE2	1.88	1.08
1:M:167:ILE:HA	1:M:215:ILE:O	1.49	1.08
1:D:612:GLU:HG3	1:E:642:PHE:CE2	1.88	1.08
1:A:612:GLU:HG3	1:B:642:PHE:CE2	1.88	1.08
1:C:612:GLU:HG3	1:D:642:PHE:CE2	1.88	1.08
1:F:612:GLU:HG3	1:G:642:PHE:CE2	1.88	1.08
1:G:612:GLU:HG3	1:H:642:PHE:CE2	1.88	1.08
1:N:612:GLU:HG3	1:O:642:PHE:CE2	1.88	1.08
1:E:612:GLU:HG3	1:F:642:PHE:CE2	1.88	1.07
1:B:612:GLU:HG3	1:C:642:PHE:CE2	1.88	1.07
1:A:235:GLU:OE1	1:A:235:GLU:N	1.89	1.06
1:B:235:GLU:OE1	1:B:235:GLU:N	1.89	1.06
1:E:235:GLU:OE1	1:E:235:GLU:N	1.89	1.06
1:M:235:GLU:OE1	1:M:235:GLU:N	1.89	1.06
1:L:235:GLU:OE1	1:L:235:GLU:N	1.89	1.05
1:D:235:GLU:OE1	1:D:235:GLU:N	1.89	1.05
1:F:235:GLU:N	1:F:235:GLU:OE1	1.89	1.05
1:O:235:GLU:OE1	1:O:235:GLU:N	1.89	1.05
1:N:235:GLU:N	1:N:235:GLU:OE1	1.89	1.05
1:C:235:GLU:N	1:C:235:GLU:OE1	1.89	1.04
1:I:235:GLU:OE1	1:I:235:GLU:N	1.89	1.04
1:H:235:GLU:OE1	1:H:235:GLU:N	1.89	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:235:GLU:OE1	1:J:235:GLU:N	1.89	1.04
1:K:235:GLU:N	1:K:235:GLU:OE1	1.89	1.03
1:G:235:GLU:OE1	1:G:235:GLU:N	1.89	1.03
1:F:612:GLU:HG3	1:G:642:PHE:HE2	1.22	1.02
1:A:324:ALA:O	1:A:437:SER:HB2	1.60	1.01
1:K:324:ALA:O	1:K:437:SER:HB2	1.60	1.01
1:O:324:ALA:O	1:O:437:SER:HB2	1.60	1.01
1:N:324:ALA:O	1:N:437:SER:HB2	1.60	1.01
1:B:324:ALA:O	1:B:437:SER:HB2	1.60	1.01
1:G:324:ALA:O	1:G:437:SER:HB2	1.60	1.01
1:H:105:VAL:O	1:H:140:ILE:HB	1.61	1.01
1:J:324:ALA:O	1:J:437:SER:HB2	1.60	1.01
1:L:105:VAL:O	1:L:140:ILE:HB	1.61	1.01
1:I:105:VAL:O	1:I:140:ILE:HB	1.61	1.01
1:M:324:ALA:O	1:M:437:SER:HB2	1.60	1.01
1:C:324:ALA:O	1:C:437:SER:HB2	1.60	1.01
1:F:105:VAL:O	1:F:140:ILE:HB	1.61	1.01
1:E:105:VAL:O	1:E:140:ILE:HB	1.61	1.00
1:M:105:VAL:O	1:M:140:ILE:HB	1.61	1.00
1:F:324:ALA:O	1:F:437:SER:HB2	1.60	1.00
1:N:105:VAL:O	1:N:140:ILE:HB	1.61	1.00
1:D:105:VAL:O	1:D:140:ILE:HB	1.61	1.00
1:D:612:GLU:HG3	1:E:642:PHE:HE2	1.23	1.00
1:G:105:VAL:O	1:G:140:ILE:HB	1.61	1.00
1:L:324:ALA:O	1:L:437:SER:HB2	1.60	1.00
1:K:105:VAL:O	1:K:140:ILE:HB	1.61	1.00
1:D:324:ALA:O	1:D:437:SER:HB2	1.60	1.00
1:E:612:GLU:HG3	1:F:642:PHE:HE2	1.23	0.99
1:O:105:VAL:O	1:O:140:ILE:HB	1.61	0.99
1:H:324:ALA:O	1:H:437:SER:HB2	1.60	0.99
1:C:105:VAL:O	1:C:140:ILE:HB	1.61	0.99
1:A:105:VAL:O	1:A:140:ILE:HB	1.61	0.99
1:B:105:VAL:O	1:B:140:ILE:HB	1.61	0.98
1:I:324:ALA:O	1:I:437:SER:HB2	1.60	0.98
1:J:105:VAL:O	1:J:140:ILE:HB	1.61	0.98
1:I:612:GLU:HG3	1:J:642:PHE:HE2	1.23	0.98
1:E:324:ALA:O	1:E:437:SER:HB2	1.60	0.98
1:B:612:GLU:HG3	1:C:642:PHE:HE2	1.23	0.97
1:G:612:GLU:HG3	1:H:642:PHE:HE2	1.22	0.97
1:L:612:GLU:HG3	1:M:642:PHE:HE2	1.23	0.96
1:N:612:GLU:HG3	1:O:642:PHE:HE2	1.22	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:520:LYS:NZ	1:G:479:GLU:OE2	2.00	0.95
1:L:520:LYS:NZ	1:M:479:GLU:OE2	2.00	0.95
1:E:520:LYS:NZ	1:F:479:GLU:OE2	2.00	0.95
1:M:520:LYS:NZ	1:N:479:GLU:OE2	2.00	0.95
1:B:520:LYS:NZ	1:C:479:GLU:OE2	2.00	0.94
1:G:520:LYS:NZ	1:H:479:GLU:OE2	2.00	0.94
1:A:520:LYS:NZ	1:B:479:GLU:OE2	2.00	0.94
1:K:520:LYS:NZ	1:L:479:GLU:OE2	2.00	0.94
1:K:612:GLU:HG3	1:L:642:PHE:HE2	1.23	0.94
1:H:520:LYS:NZ	1:I:479:GLU:OE2	2.00	0.94
1:J:612:GLU:HG3	1:K:642:PHE:HE2	1.22	0.94
1:C:520:LYS:NZ	1:D:479:GLU:OE2	2.00	0.94
1:D:520:LYS:NZ	1:E:479:GLU:OE2	2.00	0.94
1:A:479:GLU:OE2	1:O:520:LYS:NZ	2.00	0.93
1:M:612:GLU:HG3	1:N:642:PHE:HE2	1.22	0.93
1:N:520:LYS:NZ	1:O:479:GLU:OE2	2.00	0.93
1:J:520:LYS:NZ	1:K:479:GLU:OE2	2.00	0.93
1:I:520:LYS:NZ	1:J:479:GLU:OE2	2.00	0.93
1:J:609:PHE:CG	1:K:639:ILE:CD1	2.52	0.93
1:A:642:PHE:HE2	1:O:612:GLU:HG3	1.22	0.93
1:C:609:PHE:CD2	1:D:639:ILE:HD11	2.04	0.93
1:H:609:PHE:CG	1:I:639:ILE:CD1	2.52	0.93
1:L:609:PHE:CG	1:M:639:ILE:CD1	2.52	0.93
1:O:218:ASP:HB2	1:O:221:VAL:H	1.34	0.93
1:A:612:GLU:HG3	1:B:642:PHE:HE2	1.22	0.93
1:H:612:GLU:HG3	1:I:642:PHE:HE2	1.23	0.93
1:N:218:ASP:HB2	1:N:221:VAL:H	1.34	0.93
1:A:218:ASP:HB2	1:A:221:VAL:H	1.34	0.93
1:C:609:PHE:CG	1:D:639:ILE:CD1	2.52	0.93
1:K:609:PHE:CG	1:L:639:ILE:CD1	2.52	0.93
1:M:218:ASP:HB2	1:M:221:VAL:H	1.34	0.93
1:A:609:PHE:CD2	1:B:639:ILE:HD11	2.04	0.92
1:F:609:PHE:CD2	1:G:639:ILE:HD11	2.04	0.92
1:J:609:PHE:CD2	1:K:639:ILE:HD11	2.04	0.92
1:K:609:PHE:CD2	1:L:639:ILE:HD11	2.04	0.92
1:M:609:PHE:CG	1:N:639:ILE:CD1	2.52	0.92
1:A:609:PHE:CG	1:B:639:ILE:CD1	2.52	0.92
1:L:218:ASP:HB2	1:L:221:VAL:H	1.34	0.92
1:B:609:PHE:CG	1:C:639:ILE:CD1	2.52	0.92
1:A:639:ILE:HD11	1:O:609:PHE:CD2	2.04	0.92
1:D:609:PHE:CD2	1:E:639:ILE:HD11	2.04	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:609:PHE:CG	1:J:639:ILE:CD1	2.52	0.92
1:C:612:GLU:HG3	1:D:642:PHE:HE2	1.23	0.92
1:D:609:PHE:CG	1:E:639:ILE:CD1	2.52	0.92
1:E:609:PHE:CG	1:F:639:ILE:CD1	2.52	0.92
1:E:609:PHE:CD2	1:F:639:ILE:HD11	2.04	0.92
1:A:639:ILE:CD1	1:O:609:PHE:CG	2.52	0.92
1:B:218:ASP:HB2	1:B:221:VAL:H	1.34	0.92
1:B:609:PHE:CD2	1:C:639:ILE:HD11	2.04	0.92
1:N:609:PHE:CG	1:O:639:ILE:CD1	2.52	0.92
1:F:609:PHE:CG	1:G:639:ILE:CD1	2.52	0.92
1:D:218:ASP:HB2	1:D:221:VAL:H	1.34	0.92
1:I:609:PHE:CD2	1:J:639:ILE:HD11	2.04	0.92
1:K:218:ASP:HB2	1:K:221:VAL:H	1.34	0.92
1:G:218:ASP:HB2	1:G:221:VAL:H	1.34	0.92
1:F:218:ASP:HB2	1:F:221:VAL:H	1.34	0.91
1:M:609:PHE:CD2	1:N:639:ILE:HD11	2.04	0.91
1:I:218:ASP:HB2	1:I:221:VAL:H	1.34	0.91
1:G:609:PHE:CG	1:H:639:ILE:CD1	2.52	0.91
1:G:609:PHE:CD2	1:H:639:ILE:HD11	2.04	0.91
1:H:218:ASP:HB2	1:H:221:VAL:H	1.34	0.91
1:H:609:PHE:CD2	1:I:639:ILE:HD11	2.04	0.91
1:L:609:PHE:CD2	1:M:639:ILE:HD11	2.04	0.91
1:C:218:ASP:HB2	1:C:221:VAL:H	1.34	0.91
1:E:218:ASP:HB2	1:E:221:VAL:H	1.34	0.91
1:N:609:PHE:CD2	1:O:639:ILE:HD11	2.04	0.91
1:J:218:ASP:HB2	1:J:221:VAL:H	1.34	0.90
1:A:205:VAL:HB	1:A:214:LEU:HB2	1.54	0.90
1:B:205:VAL:HB	1:B:214:LEU:HB2	1.54	0.89
1:O:205:VAL:HB	1:O:214:LEU:HB2	1.54	0.89
1:C:205:VAL:HB	1:C:214:LEU:HB2	1.54	0.89
1:N:205:VAL:HB	1:N:214:LEU:HB2	1.54	0.89
1:D:205:VAL:HB	1:D:214:LEU:HB2	1.54	0.89
1:I:205:VAL:HB	1:I:214:LEU:HB2	1.54	0.88
1:H:205:VAL:HB	1:H:214:LEU:HB2	1.54	0.88
1:B:169:VAL:HG22	1:B:214:LEU:HD22	1.56	0.88
1:J:205:VAL:HB	1:J:214:LEU:HB2	1.54	0.88
1:C:169:VAL:HG22	1:C:214:LEU:HD22	1.56	0.88
1:D:169:VAL:HG22	1:D:214:LEU:HD22	1.56	0.88
1:M:205:VAL:HB	1:M:214:LEU:HB2	1.54	0.88
1:E:169:VAL:HG22	1:E:214:LEU:HD22	1.56	0.88
1:G:205:VAL:HB	1:G:214:LEU:HB2	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:122:LEU:HD23	1:K:125:ASN:HD22	1.39	0.88
1:L:205:VAL:HB	1:L:214:LEU:HB2	1.54	0.88
1:O:169:VAL:HG22	1:O:214:LEU:HD22	1.56	0.88
1:A:169:VAL:HG22	1:A:214:LEU:HD22	1.56	0.88
1:L:122:LEU:HD23	1:L:125:ASN:HD22	1.39	0.88
1:E:205:VAL:HB	1:E:214:LEU:HB2	1.54	0.87
1:N:169:VAL:HG22	1:N:214:LEU:HD22	1.56	0.87
1:C:122:LEU:HD23	1:C:125:ASN:HD22	1.39	0.87
1:K:205:VAL:HB	1:K:214:LEU:HB2	1.54	0.87
1:F:122:LEU:HD23	1:F:125:ASN:HD22	1.39	0.87
1:J:122:LEU:HD23	1:J:125:ASN:HD22	1.39	0.87
1:E:122:LEU:HD23	1:E:125:ASN:HD22	1.39	0.87
1:F:205:VAL:HB	1:F:214:LEU:HB2	1.54	0.87
1:D:122:LEU:HD23	1:D:125:ASN:HD22	1.39	0.87
1:F:169:VAL:HG22	1:F:214:LEU:HD22	1.56	0.87
1:M:122:LEU:HD23	1:M:125:ASN:HD22	1.39	0.87
1:G:122:LEU:HD23	1:G:125:ASN:HD22	1.39	0.86
1:G:169:VAL:HG22	1:G:214:LEU:HD22	1.56	0.86
1:B:122:LEU:HD23	1:B:125:ASN:HD22	1.39	0.86
1:L:169:VAL:HG22	1:L:214:LEU:HD22	1.56	0.86
1:M:169:VAL:HG22	1:M:214:LEU:HD22	1.56	0.86
1:A:122:LEU:HD23	1:A:125:ASN:HD22	1.39	0.86
1:H:169:VAL:HG22	1:H:214:LEU:HD22	1.56	0.86
1:I:122:LEU:HD23	1:I:125:ASN:HD22	1.39	0.85
1:J:169:VAL:HG22	1:J:214:LEU:HD22	1.56	0.85
1:H:122:LEU:HD23	1:H:125:ASN:HD22	1.39	0.85
1:K:169:VAL:HG22	1:K:214:LEU:HD22	1.56	0.85
1:O:122:LEU:HD23	1:O:125:ASN:HD22	1.39	0.85
1:I:169:VAL:HG22	1:I:214:LEU:HD22	1.56	0.85
1:N:122:LEU:HD23	1:N:125:ASN:HD22	1.39	0.85
1:B:203:LYS:N	1:B:216:SER:O	2.11	0.83
1:H:203:LYS:N	1:H:216:SER:O	2.11	0.83
1:J:203:LYS:N	1:J:216:SER:O	2.11	0.83
1:K:203:LYS:N	1:K:216:SER:O	2.11	0.83
1:L:203:LYS:N	1:L:216:SER:O	2.11	0.83
1:I:203:LYS:N	1:I:216:SER:O	2.11	0.83
1:O:203:LYS:N	1:O:216:SER:O	2.11	0.83
1:C:203:LYS:N	1:C:216:SER:O	2.11	0.83
1:G:203:LYS:N	1:G:216:SER:O	2.11	0.83
1:D:203:LYS:N	1:D:216:SER:O	2.11	0.83
1:L:168:GLU:O	1:L:214:LEU:HA	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:168:GLU:O	1:G:214:LEU:HA	1.79	0.82
1:I:168:GLU:O	1:I:214:LEU:HA	1.79	0.82
1:J:168:GLU:O	1:J:214:LEU:HA	1.79	0.82
1:E:203:LYS:N	1:E:216:SER:O	2.11	0.82
1:O:168:GLU:O	1:O:214:LEU:HA	1.79	0.82
1:F:168:GLU:O	1:F:214:LEU:HA	1.79	0.82
1:M:203:LYS:N	1:M:216:SER:O	2.11	0.82
1:D:168:GLU:O	1:D:214:LEU:HA	1.79	0.82
1:F:203:LYS:N	1:F:216:SER:O	2.11	0.82
1:M:168:GLU:O	1:M:214:LEU:HA	1.79	0.82
1:N:203:LYS:N	1:N:216:SER:O	2.11	0.82
1:A:203:LYS:N	1:A:216:SER:O	2.11	0.81
1:C:168:GLU:O	1:C:214:LEU:HA	1.79	0.81
1:E:168:GLU:O	1:E:214:LEU:HA	1.79	0.81
1:K:168:GLU:O	1:K:214:LEU:HA	1.79	0.81
1:K:172:LEU:HD11	1:K:213:ILE:HG13	1.63	0.81
1:N:168:GLU:O	1:N:214:LEU:HA	1.79	0.81
1:M:172:LEU:HD11	1:M:213:ILE:HG13	1.63	0.81
1:A:168:GLU:O	1:A:214:LEU:HA	1.79	0.81
1:H:168:GLU:O	1:H:214:LEU:HA	1.79	0.81
1:D:640:GLN:O	1:D:643:ILE:HG22	1.81	0.81
1:C:640:GLN:O	1:C:643:ILE:HG22	1.81	0.81
1:I:172:LEU:HD11	1:I:213:ILE:HG13	1.63	0.81
1:N:640:GLN:O	1:N:643:ILE:HG22	1.81	0.81
1:L:640:GLN:O	1:L:643:ILE:HG22	1.81	0.80
1:B:168:GLU:O	1:B:214:LEU:HA	1.79	0.80
1:O:172:LEU:HD11	1:O:213:ILE:HG13	1.63	0.80
1:K:640:GLN:O	1:K:643:ILE:HG22	1.81	0.80
1:B:640:GLN:O	1:B:643:ILE:HG22	1.81	0.80
1:E:640:GLN:O	1:E:643:ILE:HG22	1.81	0.80
1:H:640:GLN:O	1:H:643:ILE:HG22	1.81	0.80
1:J:640:GLN:O	1:J:643:ILE:HG22	1.81	0.80
1:I:640:GLN:O	1:I:643:ILE:HG22	1.81	0.80
1:K:368:GLU:HG3	1:K:399:LYS:HD2	1.64	0.80
1:A:172:LEU:HD11	1:A:213:ILE:HG13	1.63	0.80
1:A:640:GLN:O	1:A:643:ILE:HG22	1.81	0.80
1:G:640:GLN:O	1:G:643:ILE:HG22	1.81	0.80
1:M:640:GLN:O	1:M:643:ILE:HG22	1.81	0.80
1:N:172:LEU:HD11	1:N:213:ILE:HG13	1.63	0.79
1:H:172:LEU:HD11	1:H:213:ILE:HG13	1.63	0.79
1:C:172:LEU:HD11	1:C:213:ILE:HG13	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:172:LEU:HD11	1:F:213:ILE:HG13	1.63	0.79
1:J:368:GLU:HG3	1:J:399:LYS:HD2	1.64	0.79
1:L:368:GLU:HG3	1:L:399:LYS:HD2	1.64	0.79
1:O:640:GLN:O	1:O:643:ILE:HG22	1.81	0.79
1:H:368:GLU:HG3	1:H:399:LYS:HD2	1.64	0.79
1:L:172:LEU:HD11	1:L:213:ILE:HG13	1.63	0.79
1:N:368:GLU:HG3	1:N:399:LYS:HD2	1.64	0.79
1:E:368:GLU:HG3	1:E:399:LYS:HD2	1.64	0.79
1:F:640:GLN:O	1:F:643:ILE:HG22	1.81	0.79
1:J:172:LEU:HD11	1:J:213:ILE:HG13	1.63	0.79
1:A:624:PRO:HB2	1:O:435:LEU:HD13	1.65	0.78
1:B:368:GLU:HG3	1:B:399:LYS:HD2	1.64	0.78
1:C:368:GLU:HG3	1:C:399:LYS:HD2	1.64	0.78
1:D:368:GLU:HG3	1:D:399:LYS:HD2	1.64	0.78
1:G:368:GLU:HG3	1:G:399:LYS:HD2	1.64	0.78
1:O:368:GLU:HG3	1:O:399:LYS:HD2	1.64	0.78
1:E:172:LEU:HD11	1:E:213:ILE:HG13	1.63	0.78
1:F:552:VAL:HG21	1:F:555:LEU:HB2	1.66	0.78
1:H:435:LEU:HD13	1:I:624:PRO:HB2	1.65	0.78
1:M:368:GLU:HG3	1:M:399:LYS:HD2	1.64	0.78
1:D:552:VAL:HG21	1:D:555:LEU:HB2	1.66	0.78
1:G:172:LEU:HD11	1:G:213:ILE:HG13	1.63	0.78
1:I:368:GLU:HG3	1:I:399:LYS:HD2	1.64	0.78
1:B:435:LEU:HD13	1:C:624:PRO:HB2	1.65	0.78
1:D:172:LEU:HD11	1:D:213:ILE:HG13	1.63	0.78
1:I:435:LEU:HD13	1:J:624:PRO:HB2	1.65	0.78
1:F:435:LEU:HD13	1:G:624:PRO:HB2	1.65	0.78
1:M:435:LEU:HD13	1:N:624:PRO:HB2	1.65	0.78
1:B:172:LEU:HD11	1:B:213:ILE:HG13	1.63	0.78
1:C:552:VAL:HG21	1:C:555:LEU:HB2	1.66	0.78
1:G:435:LEU:HD13	1:H:624:PRO:HB2	1.65	0.78
1:G:552:VAL:HG21	1:G:555:LEU:HB2	1.66	0.78
1:I:139:ILE:HG22	1:I:140:ILE:H	1.49	0.78
1:C:435:LEU:HD13	1:D:624:PRO:HB2	1.65	0.77
1:D:139:ILE:HG22	1:D:140:ILE:H	1.50	0.77
1:E:552:VAL:HG21	1:E:555:LEU:HB2	1.66	0.77
1:H:139:ILE:HG22	1:H:140:ILE:H	1.50	0.77
1:A:368:GLU:HG3	1:A:399:LYS:HD2	1.64	0.77
1:A:435:LEU:HD13	1:B:624:PRO:HB2	1.65	0.77
1:B:139:ILE:HG22	1:B:140:ILE:H	1.49	0.77
1:F:368:GLU:HG3	1:F:399:LYS:HD2	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:552:VAL:HG21	1:H:555:LEU:HB2	1.66	0.77
1:I:552:VAL:HG21	1:I:555:LEU:HB2	1.66	0.77
1:N:139:ILE:HG22	1:N:140:ILE:H	1.49	0.77
1:J:139:ILE:HG22	1:J:140:ILE:H	1.49	0.77
1:K:435:LEU:HD13	1:L:624:PRO:HB2	1.65	0.77
1:E:435:LEU:HD13	1:F:624:PRO:HB2	1.65	0.77
1:F:139:ILE:HG22	1:F:140:ILE:H	1.49	0.77
1:J:435:LEU:HD13	1:K:624:PRO:HB2	1.65	0.77
1:M:139:ILE:HG22	1:M:140:ILE:H	1.49	0.77
1:N:552:VAL:HG21	1:N:555:LEU:HB2	1.66	0.77
1:A:139:ILE:HG22	1:A:140:ILE:H	1.50	0.77
1:N:435:LEU:HD13	1:O:624:PRO:HB2	1.65	0.77
1:B:552:VAL:HG21	1:B:555:LEU:HB2	1.66	0.77
1:L:435:LEU:HD13	1:M:624:PRO:HB2	1.65	0.77
1:M:130:ASN:HA	1:M:143:THR:O	1.85	0.77
1:O:139:ILE:HG22	1:O:140:ILE:H	1.50	0.77
1:N:130:ASN:HA	1:N:143:THR:O	1.85	0.76
1:G:139:ILE:HG22	1:G:140:ILE:H	1.49	0.76
1:K:552:VAL:HG21	1:K:555:LEU:HB2	1.65	0.76
1:L:552:VAL:HG21	1:L:555:LEU:HB2	1.66	0.76
1:A:552:VAL:HG21	1:A:555:LEU:HB2	1.66	0.76
1:D:130:ASN:HA	1:D:143:THR:O	1.85	0.76
1:E:130:ASN:HA	1:E:143:THR:O	1.85	0.76
1:J:552:VAL:HG21	1:J:555:LEU:HB2	1.66	0.76
1:D:435:LEU:HD13	1:E:624:PRO:HB2	1.65	0.76
1:K:130:ASN:HA	1:K:143:THR:O	1.85	0.76
1:J:130:ASN:HA	1:J:143:THR:O	1.85	0.76
1:L:139:ILE:HG22	1:L:140:ILE:H	1.49	0.76
1:M:552:VAL:HG21	1:M:555:LEU:HB2	1.66	0.76
1:O:130:ASN:HA	1:O:143:THR:O	1.85	0.76
1:L:130:ASN:HA	1:L:143:THR:O	1.85	0.76
1:C:130:ASN:HA	1:C:143:THR:O	1.85	0.76
1:F:130:ASN:HA	1:F:143:THR:O	1.85	0.76
1:O:552:VAL:HG21	1:O:555:LEU:HB2	1.66	0.76
1:I:130:ASN:HA	1:I:143:THR:O	1.85	0.75
1:K:139:ILE:HG22	1:K:140:ILE:H	1.50	0.75
1:A:130:ASN:HA	1:A:143:THR:O	1.85	0.75
1:C:139:ILE:HG22	1:C:140:ILE:H	1.49	0.75
1:G:130:ASN:HA	1:G:143:THR:O	1.85	0.75
1:B:130:ASN:HA	1:B:143:THR:O	1.85	0.75
1:E:139:ILE:HG22	1:E:140:ILE:H	1.49	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:221:VAL:O	1:E:225:LEU:HB2	1.87	0.75
1:L:221:VAL:O	1:L:225:LEU:HB2	1.87	0.75
1:J:221:VAL:O	1:J:225:LEU:HB2	1.87	0.74
1:E:410:ALA:O	1:E:424:ASN:HA	1.87	0.74
1:F:221:VAL:O	1:F:225:LEU:HB2	1.87	0.74
1:F:410:ALA:O	1:F:424:ASN:HA	1.87	0.74
1:H:130:ASN:HA	1:H:143:THR:O	1.85	0.74
1:I:221:VAL:O	1:I:225:LEU:HB2	1.87	0.74
1:K:410:ALA:O	1:K:424:ASN:HA	1.87	0.74
1:M:221:VAL:O	1:M:225:LEU:HB2	1.87	0.74
1:A:221:VAL:O	1:A:225:LEU:HB2	1.87	0.74
1:D:221:VAL:O	1:D:225:LEU:HB2	1.87	0.74
1:D:410:ALA:O	1:D:424:ASN:HA	1.87	0.74
1:G:410:ALA:O	1:G:424:ASN:HA	1.87	0.74
1:K:221:VAL:O	1:K:225:LEU:HB2	1.87	0.74
1:H:221:VAL:O	1:H:225:LEU:HB2	1.87	0.74
1:H:410:ALA:O	1:H:424:ASN:HA	1.87	0.74
1:O:410:ALA:O	1:O:424:ASN:HA	1.87	0.74
1:I:221:VAL:HG13	1:I:225:LEU:HD12	1.69	0.74
1:C:410:ALA:O	1:C:424:ASN:HA	1.87	0.74
1:H:221:VAL:HG13	1:H:225:LEU:HD12	1.69	0.74
1:L:410:ALA:O	1:L:424:ASN:HA	1.87	0.74
1:J:221:VAL:HG13	1:J:225:LEU:HD12	1.69	0.74
1:K:221:VAL:HG13	1:K:225:LEU:HD12	1.69	0.74
1:L:221:VAL:HG13	1:L:225:LEU:HD12	1.69	0.74
1:N:410:ALA:O	1:N:424:ASN:HA	1.87	0.74
1:B:221:VAL:O	1:B:225:LEU:HB2	1.87	0.74
1:B:410:ALA:O	1:B:424:ASN:HA	1.87	0.74
1:I:410:ALA:O	1:I:424:ASN:HA	1.87	0.74
1:G:221:VAL:O	1:G:225:LEU:HB2	1.87	0.74
1:A:410:ALA:O	1:A:424:ASN:HA	1.87	0.73
1:E:221:VAL:HG13	1:E:225:LEU:HD12	1.69	0.73
1:G:221:VAL:HG13	1:G:225:LEU:HD12	1.69	0.73
1:O:221:VAL:O	1:O:225:LEU:HB2	1.87	0.73
1:D:219:PRO:HA	1:D:222:ARG:HB2	1.71	0.73
1:D:221:VAL:HG13	1:D:225:LEU:HD12	1.69	0.73
1:E:219:PRO:HA	1:E:222:ARG:HB2	1.71	0.73
1:J:410:ALA:O	1:J:424:ASN:HA	1.87	0.73
1:M:221:VAL:HG13	1:M:225:LEU:HD12	1.69	0.73
1:O:221:VAL:HG13	1:O:225:LEU:HD12	1.69	0.73
1:A:221:VAL:HG13	1:A:225:LEU:HD12	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:219:PRO:HA	1:F:222:ARG:HB2	1.70	0.73
1:K:219:PRO:HA	1:K:222:ARG:HB2	1.70	0.73
1:F:221:VAL:HG13	1:F:225:LEU:HD12	1.69	0.73
1:M:410:ALA:O	1:M:424:ASN:HA	1.87	0.73
1:N:221:VAL:O	1:N:225:LEU:HB2	1.87	0.73
1:N:221:VAL:HG13	1:N:225:LEU:HD12	1.69	0.73
1:C:221:VAL:HG13	1:C:225:LEU:HD12	1.69	0.73
1:J:219:PRO:HA	1:J:222:ARG:HB2	1.71	0.73
1:C:219:PRO:HA	1:C:222:ARG:HB2	1.71	0.73
1:C:221:VAL:O	1:C:225:LEU:HB2	1.87	0.73
1:G:219:PRO:HA	1:G:222:ARG:HB2	1.71	0.73
1:O:219:PRO:HA	1:O:222:ARG:HB2	1.71	0.72
1:B:221:VAL:HG13	1:B:225:LEU:HD12	1.69	0.72
1:I:219:PRO:HA	1:I:222:ARG:HB2	1.71	0.72
1:L:219:PRO:HA	1:L:222:ARG:HB2	1.71	0.72
1:N:219:PRO:HA	1:N:222:ARG:HB2	1.71	0.72
1:A:219:PRO:HA	1:A:222:ARG:HB2	1.71	0.72
1:H:219:PRO:HA	1:H:222:ARG:HB2	1.71	0.72
1:L:609:PHE:CD1	1:M:639:ILE:HD13	2.26	0.71
1:H:609:PHE:CD1	1:I:639:ILE:HD13	2.26	0.71
1:E:609:PHE:CD1	1:F:639:ILE:HD13	2.26	0.71
1:K:609:PHE:CD1	1:L:639:ILE:HD13	2.26	0.71
1:A:639:ILE:HD13	1:O:609:PHE:CD1	2.26	0.71
1:B:207:ASP:O	1:B:211:ASN:N	2.24	0.71
1:M:207:ASP:O	1:M:211:ASN:N	2.24	0.71
1:M:609:PHE:CD1	1:N:639:ILE:HD13	2.26	0.71
1:B:219:PRO:HA	1:B:222:ARG:HB2	1.71	0.71
1:G:609:PHE:CD1	1:H:639:ILE:HD13	2.26	0.71
1:I:207:ASP:O	1:I:211:ASN:N	2.24	0.71
1:I:609:PHE:CD1	1:J:639:ILE:HD13	2.26	0.71
1:N:609:PHE:CD1	1:O:639:ILE:HD13	2.25	0.71
1:F:609:PHE:CD1	1:G:639:ILE:HD13	2.26	0.71
1:B:609:PHE:CD1	1:C:639:ILE:HD13	2.26	0.71
1:C:609:PHE:CD1	1:D:639:ILE:HD13	2.26	0.71
1:F:207:ASP:O	1:F:211:ASN:N	2.24	0.71
1:G:207:ASP:O	1:G:211:ASN:N	2.24	0.71
1:N:207:ASP:O	1:N:211:ASN:N	2.24	0.71
1:A:207:ASP:O	1:A:211:ASN:N	2.24	0.71
1:K:207:ASP:O	1:K:211:ASN:N	2.24	0.71
1:C:207:ASP:O	1:C:211:ASN:N	2.24	0.70
1:L:207:ASP:O	1:L:211:ASN:N	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:609:PHE:CD2	1:D:639:ILE:CD1	2.74	0.70
1:D:207:ASP:O	1:D:211:ASN:N	2.24	0.70
1:J:609:PHE:CD1	1:K:639:ILE:HD13	2.25	0.70
1:H:207:ASP:O	1:H:211:ASN:N	2.24	0.70
1:M:219:PRO:HA	1:M:222:ARG:HB2	1.70	0.70
1:A:609:PHE:CD1	1:B:639:ILE:HD13	2.26	0.70
1:B:609:PHE:CD2	1:C:639:ILE:CD1	2.74	0.70
1:D:609:PHE:CD1	1:E:639:ILE:HD13	2.26	0.70
1:E:207:ASP:O	1:E:211:ASN:N	2.24	0.70
1:O:207:ASP:O	1:O:211:ASN:N	2.24	0.70
1:I:609:PHE:CD2	1:J:639:ILE:CD1	2.74	0.70
1:J:207:ASP:O	1:J:211:ASN:N	2.24	0.69
1:M:609:PHE:CD2	1:N:639:ILE:CD1	2.74	0.69
1:I:375:THR:HG23	1:I:390:THR:HG22	1.77	0.67
1:J:375:THR:HG23	1:J:390:THR:HG22	1.77	0.67
1:H:375:THR:HG23	1:H:390:THR:HG22	1.77	0.67
1:G:375:THR:HG23	1:G:390:THR:HG22	1.77	0.67
1:K:375:THR:HG23	1:K:390:THR:HG22	1.77	0.67
1:D:500:ILE:HD13	1:D:537:LEU:HD21	1.77	0.67
1:J:500:ILE:HD13	1:J:537:LEU:HD21	1.76	0.67
1:J:609:PHE:CD1	1:K:639:ILE:CD1	2.78	0.67
1:C:500:ILE:HD13	1:C:537:LEU:HD21	1.77	0.67
1:E:500:ILE:HD13	1:E:537:LEU:HD21	1.76	0.67
1:K:609:PHE:CD1	1:L:639:ILE:CD1	2.78	0.67
1:B:609:PHE:CD1	1:C:639:ILE:CD1	2.78	0.66
1:K:321:LEU:HD13	1:K:441:THR:OG1	1.96	0.66
1:K:500:ILE:HD13	1:K:537:LEU:HD21	1.77	0.66
1:F:375:THR:HG23	1:F:390:THR:HG22	1.77	0.66
1:F:609:PHE:CD1	1:G:639:ILE:CD1	2.78	0.66
1:G:609:PHE:CD1	1:H:639:ILE:CD1	2.78	0.66
1:I:500:ILE:HD13	1:I:537:LEU:HD21	1.77	0.66
1:I:609:PHE:CD1	1:J:639:ILE:CD1	2.78	0.66
1:B:375:THR:HG23	1:B:390:THR:HG22	1.77	0.66
1:C:375:THR:HG23	1:C:390:THR:HG22	1.77	0.66
1:J:321:LEU:HD13	1:J:441:THR:OG1	1.96	0.66
1:L:321:LEU:HD13	1:L:441:THR:OG1	1.96	0.66
1:N:609:PHE:CD2	1:O:639:ILE:CD1	2.74	0.66
1:A:639:ILE:CD1	1:O:609:PHE:CD1	2.78	0.66
1:D:609:PHE:CD2	1:E:639:ILE:CD1	2.74	0.66
1:L:178:ALA:N	1:L:208:GLU:OE2	2.28	0.66
1:M:500:ILE:HD13	1:M:537:LEU:HD21	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:609:PHE:CD1	1:O:639:ILE:CD1	2.78	0.66
1:A:375:THR:HG23	1:A:390:THR:HG22	1.77	0.66
1:A:609:PHE:CD1	1:B:639:ILE:CD1	2.78	0.66
1:B:500:ILE:HD13	1:B:537:LEU:HD21	1.77	0.66
1:E:609:PHE:CD1	1:F:639:ILE:CD1	2.78	0.66
1:J:178:ALA:N	1:J:208:GLU:OE2	2.28	0.66
1:L:500:ILE:HD13	1:L:537:LEU:HD21	1.77	0.66
1:N:327:VAL:HG11	1:O:603:ILE:HG21	1.78	0.66
1:A:321:LEU:HD13	1:A:441:THR:OG1	1.96	0.66
1:B:321:LEU:HD13	1:B:441:THR:OG1	1.95	0.66
1:C:609:PHE:CD1	1:D:639:ILE:CD1	2.78	0.66
1:H:609:PHE:CD2	1:I:639:ILE:CD1	2.74	0.66
1:L:140:ILE:HD13	1:L:156:ILE:HG23	1.78	0.66
1:L:375:THR:HG23	1:L:390:THR:HG22	1.77	0.66
1:L:609:PHE:CD1	1:M:639:ILE:CD1	2.78	0.66
1:M:140:ILE:HD13	1:M:156:ILE:HG23	1.78	0.66
1:M:321:LEU:HD13	1:M:441:THR:OG1	1.96	0.66
1:M:327:VAL:HG11	1:N:603:ILE:HG21	1.78	0.66
1:N:140:ILE:HD13	1:N:156:ILE:HG23	1.78	0.66
1:O:140:ILE:HD13	1:O:156:ILE:HG23	1.78	0.66
1:A:172:LEU:O	1:A:211:ASN:ND2	2.29	0.66
1:A:603:ILE:HG21	1:O:327:VAL:HG11	1.78	0.66
1:B:442:VAL:HG21	1:B:488:PRO:HG3	1.78	0.66
1:F:500:ILE:HD13	1:F:537:LEU:HD21	1.76	0.66
1:I:321:LEU:HD13	1:I:441:THR:OG1	1.96	0.66
1:N:500:ILE:HD13	1:N:537:LEU:HD21	1.76	0.66
1:O:172:LEU:O	1:O:211:ASN:ND2	2.29	0.66
1:C:172:LEU:O	1:C:211:ASN:ND2	2.29	0.66
1:D:375:THR:HG23	1:D:390:THR:HG22	1.77	0.66
1:H:500:ILE:HD13	1:H:537:LEU:HD21	1.77	0.66
1:B:172:LEU:O	1:B:211:ASN:ND2	2.29	0.66
1:C:321:LEU:HD13	1:C:441:THR:OG1	1.95	0.66
1:H:609:PHE:CD1	1:I:639:ILE:CD1	2.78	0.66
1:L:172:LEU:O	1:L:211:ASN:ND2	2.29	0.66
1:L:327:VAL:HG11	1:M:603:ILE:HG21	1.78	0.66
1:N:172:LEU:O	1:N:211:ASN:ND2	2.29	0.66
1:O:321:LEU:HD13	1:O:441:THR:OG1	1.96	0.66
1:O:375:THR:HG23	1:O:390:THR:HG22	1.77	0.66
1:D:172:LEU:O	1:D:211:ASN:ND2	2.29	0.66
1:H:348:SER:HB2	1:I:412:VAL:HA	1.78	0.66
1:J:348:SER:HB2	1:K:412:VAL:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:172:LEU:O	1:K:211:ASN:ND2	2.29	0.66
1:D:321:LEU:HD13	1:D:441:THR:OG1	1.96	0.65
1:E:321:LEU:HD13	1:E:441:THR:OG1	1.96	0.65
1:J:140:ILE:HD13	1:J:156:ILE:HG23	1.78	0.65
1:A:140:ILE:HD13	1:A:156:ILE:HG23	1.78	0.65
1:B:140:ILE:HD13	1:B:156:ILE:HG23	1.78	0.65
1:C:178:ALA:N	1:C:208:GLU:OE2	2.28	0.65
1:D:442:VAL:HG21	1:D:488:PRO:HG3	1.78	0.65
1:E:375:THR:HG23	1:E:390:THR:HG22	1.77	0.65
1:G:172:LEU:O	1:G:211:ASN:ND2	2.29	0.65
1:G:609:PHE:CD2	1:H:639:ILE:CD1	2.74	0.65
1:K:140:ILE:HD13	1:K:156:ILE:HG23	1.78	0.65
1:D:322:ILE:O	1:D:439:SER:HA	1.97	0.65
1:D:609:PHE:CD1	1:E:639:ILE:CD1	2.78	0.65
1:G:322:ILE:O	1:G:439:SER:HA	1.97	0.65
1:K:609:PHE:CD2	1:L:639:ILE:CD1	2.74	0.65
1:M:172:LEU:O	1:M:211:ASN:ND2	2.29	0.65
1:N:375:THR:HG23	1:N:390:THR:HG22	1.77	0.65
1:O:442:VAL:HG21	1:O:488:PRO:HG3	1.78	0.65
1:A:327:VAL:HG11	1:B:603:ILE:HG21	1.78	0.65
1:F:172:LEU:O	1:F:211:ASN:ND2	2.29	0.65
1:G:500:ILE:HD13	1:G:537:LEU:HD21	1.76	0.65
1:H:327:VAL:HG11	1:I:603:ILE:HG21	1.78	0.65
1:L:348:SER:HB2	1:M:412:VAL:HA	1.78	0.65
1:O:500:ILE:HD13	1:O:537:LEU:HD21	1.77	0.65
1:A:500:ILE:HD13	1:A:537:LEU:HD21	1.77	0.65
1:C:140:ILE:HD13	1:C:156:ILE:HG23	1.78	0.65
1:C:322:ILE:O	1:C:439:SER:HA	1.97	0.65
1:E:442:VAL:HG21	1:E:488:PRO:HG3	1.78	0.65
1:F:321:LEU:HD13	1:F:441:THR:OG1	1.96	0.65
1:H:321:LEU:HD13	1:H:441:THR:OG1	1.96	0.65
1:I:140:ILE:HD13	1:I:156:ILE:HG23	1.78	0.65
1:M:609:PHE:CD1	1:N:639:ILE:CD1	2.78	0.65
1:N:321:LEU:HD13	1:N:441:THR:OG1	1.95	0.65
1:O:322:ILE:O	1:O:439:SER:HA	1.97	0.65
1:A:609:PHE:CD2	1:B:639:ILE:CD1	2.74	0.65
1:A:639:ILE:CD1	1:O:609:PHE:CD2	2.74	0.65
1:D:178:ALA:N	1:D:208:GLU:OE2	2.28	0.65
1:G:327:VAL:HG11	1:H:603:ILE:HG21	1.78	0.65
1:K:327:VAL:HG11	1:L:603:ILE:HG21	1.78	0.65
1:F:348:SER:HB2	1:G:412:VAL:HA	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:172:LEU:O	1:H:211:ASN:ND2	2.29	0.65
1:H:322:ILE:O	1:H:439:SER:HA	1.97	0.65
1:I:327:VAL:HG11	1:J:603:ILE:HG21	1.78	0.65
1:J:442:VAL:HG21	1:J:488:PRO:HG3	1.78	0.65
1:K:348:SER:HB2	1:L:412:VAL:HA	1.78	0.65
1:C:442:VAL:HG21	1:C:488:PRO:HG3	1.78	0.65
1:F:609:PHE:CD2	1:G:639:ILE:CD1	2.74	0.65
1:I:348:SER:HB2	1:J:412:VAL:HA	1.78	0.65
1:I:442:VAL:HG21	1:I:488:PRO:HG3	1.78	0.65
1:K:442:VAL:HG21	1:K:488:PRO:HG3	1.78	0.65
1:A:178:ALA:N	1:A:208:GLU:OE2	2.28	0.65
1:A:322:ILE:O	1:A:439:SER:HA	1.97	0.65
1:B:178:ALA:N	1:B:208:GLU:OE2	2.28	0.65
1:J:172:LEU:O	1:J:211:ASN:ND2	2.29	0.65
1:N:322:ILE:O	1:N:439:SER:HA	1.97	0.65
1:N:348:SER:HB2	1:O:412:VAL:HA	1.78	0.65
1:F:322:ILE:O	1:F:439:SER:HA	1.97	0.64
1:F:327:VAL:HG11	1:G:603:ILE:HG21	1.78	0.64
1:G:321:LEU:HD13	1:G:441:THR:OG1	1.95	0.64
1:H:442:VAL:HG21	1:H:488:PRO:HG3	1.78	0.64
1:I:172:LEU:O	1:I:211:ASN:ND2	2.29	0.64
1:M:375:THR:HG23	1:M:390:THR:HG22	1.77	0.64
1:N:442:VAL:HG21	1:N:488:PRO:HG3	1.78	0.64
1:O:178:ALA:N	1:O:208:GLU:OE2	2.28	0.64
1:A:442:VAL:HG21	1:A:488:PRO:HG3	1.78	0.64
1:D:327:VAL:HG11	1:E:603:ILE:HG21	1.78	0.64
1:E:172:LEU:O	1:E:211:ASN:ND2	2.29	0.64
1:E:322:ILE:O	1:E:439:SER:HA	1.97	0.64
1:E:327:VAL:HG11	1:F:603:ILE:HG21	1.78	0.64
1:F:178:ALA:N	1:F:208:GLU:OE2	2.28	0.64
1:G:348:SER:HB2	1:H:412:VAL:HA	1.78	0.64
1:H:140:ILE:HD13	1:H:156:ILE:HG23	1.78	0.64
1:J:327:VAL:HG11	1:K:603:ILE:HG21	1.78	0.64
1:G:442:VAL:HG21	1:G:488:PRO:HG3	1.78	0.64
1:M:348:SER:HB2	1:N:412:VAL:HA	1.78	0.64
1:D:140:ILE:HD13	1:D:156:ILE:HG23	1.78	0.64
1:F:140:ILE:HD13	1:F:156:ILE:HG23	1.78	0.64
1:G:140:ILE:HD13	1:G:156:ILE:HG23	1.78	0.64
1:E:178:ALA:N	1:E:208:GLU:OE2	2.28	0.64
1:F:442:VAL:HG21	1:F:488:PRO:HG3	1.78	0.64
1:M:442:VAL:HG21	1:M:488:PRO:HG3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:348:SER:HB2	1:B:412:VAL:HA	1.78	0.64
1:B:327:VAL:HG11	1:C:603:ILE:HG21	1.78	0.64
1:B:348:SER:HB2	1:C:412:VAL:HA	1.78	0.64
1:E:140:ILE:HD13	1:E:156:ILE:HG23	1.78	0.64
1:E:348:SER:HB2	1:F:412:VAL:HA	1.78	0.64
1:G:176:SER:OG	1:G:208:GLU:OE2	2.16	0.64
1:I:322:ILE:O	1:I:439:SER:HA	1.97	0.64
1:M:322:ILE:O	1:M:439:SER:HA	1.97	0.64
1:C:327:VAL:HG11	1:D:603:ILE:HG21	1.78	0.64
1:K:322:ILE:O	1:K:439:SER:HA	1.97	0.64
1:L:442:VAL:HG21	1:L:488:PRO:HG3	1.78	0.64
1:B:322:ILE:O	1:B:439:SER:HA	1.97	0.64
1:D:348:SER:HB2	1:E:412:VAL:HA	1.78	0.64
1:A:176:SER:OG	1:A:208:GLU:OE2	2.16	0.64
1:G:178:ALA:N	1:G:208:GLU:OE2	2.28	0.64
1:N:178:ALA:N	1:N:208:GLU:OE2	2.28	0.64
1:A:639:ILE:HD12	1:O:609:PHE:CG	2.33	0.63
1:B:176:SER:OG	1:B:208:GLU:OE2	2.16	0.63
1:C:348:SER:HB2	1:D:412:VAL:HA	1.78	0.63
1:A:412:VAL:HA	1:O:348:SER:HB2	1.78	0.63
1:E:609:PHE:CG	1:F:639:ILE:HD12	2.34	0.63
1:H:176:SER:OG	1:H:208:GLU:OE2	2.16	0.63
1:J:322:ILE:O	1:J:439:SER:HA	1.97	0.63
1:L:322:ILE:O	1:L:439:SER:HA	1.97	0.63
1:N:609:PHE:CG	1:O:639:ILE:HD12	2.34	0.63
1:A:609:PHE:CG	1:B:639:ILE:HD12	2.34	0.63
1:F:609:PHE:CG	1:G:639:ILE:HD12	2.34	0.63
1:H:510:ALA:HB1	1:H:513:ALA:HB3	1.81	0.63
1:I:257:GLU:OE1	1:I:257:GLU:HA	1.99	0.63
1:J:510:ALA:HB1	1:J:513:ALA:HB3	1.81	0.63
1:O:176:SER:OG	1:O:208:GLU:OE2	2.16	0.63
1:E:257:GLU:OE1	1:E:257:GLU:HA	1.99	0.63
1:F:257:GLU:HA	1:F:257:GLU:OE1	1.99	0.63
1:F:510:ALA:HB1	1:F:513:ALA:HB3	1.81	0.63
1:L:510:ALA:HB1	1:L:513:ALA:HB3	1.81	0.63
1:G:244:VAL:HG22	1:G:295:VAL:HG22	1.81	0.63
1:H:244:VAL:HG22	1:H:295:VAL:HG22	1.81	0.63
1:J:257:GLU:OE1	1:J:257:GLU:HA	1.99	0.63
1:M:178:ALA:N	1:M:208:GLU:OE2	2.28	0.63
1:D:609:PHE:CG	1:E:639:ILE:HD12	2.34	0.63
1:E:164:ASP:O	1:E:218:ASP:HA	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:326:ILE:HD11	1:E:502:GLN:HE21	1.64	0.63
1:G:164:ASP:O	1:G:218:ASP:HA	1.99	0.63
1:K:178:ALA:N	1:K:208:GLU:OE2	2.28	0.63
1:K:326:ILE:HD11	1:K:502:GLN:HE21	1.64	0.63
1:A:326:ILE:HD11	1:A:502:GLN:HE21	1.64	0.63
1:B:164:ASP:O	1:B:218:ASP:HA	1.99	0.63
1:B:260:LYS:O	1:B:263:SER:OG	2.17	0.63
1:F:244:VAL:HG22	1:F:295:VAL:HG22	1.81	0.63
1:K:164:ASP:O	1:K:218:ASP:HA	1.99	0.63
1:O:326:ILE:HD11	1:O:502:GLN:HE21	1.64	0.63
1:C:176:SER:OG	1:C:208:GLU:OE2	2.16	0.62
1:D:326:ILE:HD11	1:D:502:GLN:HE21	1.64	0.62
1:H:178:ALA:N	1:H:208:GLU:OE2	2.28	0.62
1:I:244:VAL:HG22	1:I:295:VAL:HG22	1.81	0.62
1:L:326:ILE:HD11	1:L:502:GLN:HE21	1.64	0.62
1:N:510:ALA:HB1	1:N:513:ALA:HB3	1.81	0.62
1:O:164:ASP:O	1:O:218:ASP:HA	1.99	0.62
1:C:260:LYS:O	1:C:263:SER:OG	2.17	0.62
1:K:176:SER:OG	1:K:208:GLU:OE2	2.16	0.62
1:N:489:GLN:NE2	1:O:249:TYR:O	2.32	0.62
1:B:257:GLU:OE1	1:B:257:GLU:HA	1.99	0.62
1:B:609:PHE:CG	1:C:639:ILE:HD12	2.34	0.62
1:D:510:ALA:HB1	1:D:513:ALA:HB3	1.81	0.62
1:I:164:ASP:O	1:I:218:ASP:HA	1.99	0.62
1:J:326:ILE:HD11	1:J:502:GLN:HE21	1.64	0.62
1:N:164:ASP:O	1:N:218:ASP:HA	1.99	0.62
1:C:164:ASP:O	1:C:218:ASP:HA	1.99	0.62
1:E:244:VAL:HG22	1:E:295:VAL:HG22	1.81	0.62
1:G:489:GLN:NE2	1:H:249:TYR:O	2.32	0.62
1:I:178:ALA:N	1:I:208:GLU:OE2	2.28	0.62
1:I:489:GLN:NE2	1:J:249:TYR:O	2.32	0.62
1:J:244:VAL:HG22	1:J:295:VAL:HG22	1.81	0.62
1:A:489:GLN:NE2	1:B:249:TYR:O	2.32	0.62
1:D:244:VAL:HG22	1:D:295:VAL:HG22	1.81	0.62
1:E:489:GLN:NE2	1:F:249:TYR:O	2.32	0.62
1:F:489:GLN:NE2	1:G:249:TYR:O	2.33	0.62
1:K:244:VAL:HG22	1:K:295:VAL:HG22	1.81	0.62
1:K:489:GLN:NE2	1:L:249:TYR:O	2.32	0.62
1:L:176:SER:OG	1:L:208:GLU:OE2	2.16	0.62
1:L:489:GLN:NE2	1:M:249:TYR:O	2.32	0.62
1:C:257:GLU:HA	1:C:257:GLU:OE1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:260:LYS:O	1:D:263:SER:OG	2.17	0.62
1:G:257:GLU:OE1	1:G:257:GLU:HA	1.99	0.62
1:H:257:GLU:OE1	1:H:257:GLU:HA	1.99	0.62
1:L:164:ASP:O	1:L:218:ASP:HA	1.99	0.62
1:M:164:ASP:O	1:M:218:ASP:HA	1.99	0.62
1:M:257:GLU:OE1	1:M:257:GLU:HA	1.99	0.62
1:C:489:GLN:NE2	1:D:249:TYR:O	2.32	0.62
1:C:539:GLY:HA2	1:C:577:LEU:O	2.00	0.62
1:D:164:ASP:O	1:D:218:ASP:HA	1.99	0.62
1:D:257:GLU:OE1	1:D:257:GLU:HA	1.99	0.62
1:D:489:GLN:NE2	1:E:249:TYR:O	2.32	0.62
1:E:539:GLY:HA2	1:E:577:LEU:O	2.00	0.62
1:I:539:GLY:HA2	1:I:577:LEU:O	2.00	0.62
1:M:176:SER:OG	1:M:208:GLU:OE2	2.16	0.62
1:M:489:GLN:NE2	1:N:249:TYR:O	2.32	0.62
1:A:244:VAL:HG22	1:A:295:VAL:HG22	1.81	0.62
1:C:326:ILE:HD11	1:C:502:GLN:HE21	1.64	0.62
1:C:609:PHE:CG	1:D:639:ILE:HD12	2.34	0.62
1:F:326:ILE:HD11	1:F:502:GLN:HE21	1.64	0.62
1:F:539:GLY:HA2	1:F:577:LEU:O	2.00	0.62
1:B:539:GLY:HA2	1:B:577:LEU:O	2.00	0.62
1:D:539:GLY:HA2	1:D:577:LEU:O	2.00	0.62
1:I:176:SER:OG	1:I:208:GLU:OE2	2.16	0.62
1:J:539:GLY:HA2	1:J:577:LEU:O	2.00	0.62
1:N:244:VAL:HG22	1:N:295:VAL:HG22	1.81	0.62
1:A:164:ASP:O	1:A:218:ASP:HA	1.99	0.62
1:A:249:TYR:O	1:O:489:GLN:NE2	2.32	0.62
1:A:257:GLU:OE1	1:A:257:GLU:HA	1.99	0.62
1:A:510:ALA:HB1	1:A:513:ALA:HB3	1.81	0.62
1:B:489:GLN:NE2	1:C:249:TYR:O	2.32	0.62
1:B:510:ALA:HB1	1:B:513:ALA:HB3	1.81	0.62
1:E:260:LYS:O	1:E:263:SER:OG	2.17	0.62
1:H:489:GLN:NE2	1:I:249:TYR:O	2.32	0.62
1:I:226:LYS:HA	1:I:229:ILE:HD12	1.82	0.62
1:L:257:GLU:OE1	1:L:257:GLU:HA	1.99	0.62
1:C:226:LYS:HA	1:C:229:ILE:HD12	1.82	0.61
1:D:176:SER:OG	1:D:208:GLU:OE2	2.16	0.61
1:H:539:GLY:HA2	1:H:577:LEU:O	2.00	0.61
1:I:326:ILE:HD11	1:I:502:GLN:HE21	1.64	0.61
1:J:609:PHE:CG	1:K:639:ILE:HD12	2.34	0.61
1:K:257:GLU:OE1	1:K:257:GLU:HA	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:176:SER:OG	1:N:208:GLU:OE2	2.16	0.61
1:N:326:ILE:HD11	1:N:502:GLN:HE21	1.64	0.61
1:A:539:GLY:HA2	1:A:577:LEU:O	2.00	0.61
1:D:226:LYS:HA	1:D:229:ILE:HD12	1.82	0.61
1:H:164:ASP:O	1:H:218:ASP:HA	1.99	0.61
1:J:176:SER:OG	1:J:208:GLU:OE2	2.16	0.61
1:J:226:LYS:HA	1:J:229:ILE:HD12	1.82	0.61
1:K:510:ALA:HB1	1:K:513:ALA:HB3	1.81	0.61
1:K:539:GLY:HA2	1:K:577:LEU:O	2.00	0.61
1:L:244:VAL:HG22	1:L:295:VAL:HG22	1.81	0.61
1:B:226:LYS:HA	1:B:229:ILE:HD12	1.82	0.61
1:B:326:ILE:HD11	1:B:502:GLN:HE21	1.64	0.61
1:B:604:ARG:NH2	1:B:626:LEU:O	2.34	0.61
1:C:244:VAL:HG22	1:C:295:VAL:HG22	1.81	0.61
1:G:510:ALA:HB1	1:G:513:ALA:HB3	1.81	0.61
1:M:326:ILE:HD11	1:M:502:GLN:HE21	1.64	0.61
1:N:257:GLU:HA	1:N:257:GLU:OE1	1.99	0.61
1:D:604:ARG:NH2	1:D:626:LEU:O	2.34	0.61
1:I:510:ALA:HB1	1:I:513:ALA:HB3	1.81	0.61
1:I:609:PHE:CG	1:J:639:ILE:HD12	2.34	0.61
1:J:489:GLN:NE2	1:K:249:TYR:O	2.33	0.61
1:J:604:ARG:NH2	1:J:626:LEU:O	2.34	0.61
1:K:226:LYS:HA	1:K:229:ILE:HD12	1.82	0.61
1:E:226:LYS:HA	1:E:229:ILE:HD12	1.82	0.61
1:F:604:ARG:NH2	1:F:626:LEU:O	2.34	0.61
1:I:604:ARG:NH2	1:I:626:LEU:O	2.34	0.61
1:N:184:VAL:HG13	1:N:187:LEU:HD12	1.82	0.61
1:O:184:VAL:HG13	1:O:187:LEU:HD12	1.82	0.61
1:F:164:ASP:O	1:F:218:ASP:HA	1.99	0.61
1:F:260:LYS:O	1:F:263:SER:OG	2.17	0.61
1:H:226:LYS:HA	1:H:229:ILE:HD12	1.82	0.61
1:J:164:ASP:O	1:J:218:ASP:HA	1.99	0.61
1:C:510:ALA:HB1	1:C:513:ALA:HB3	1.81	0.61
1:C:604:ARG:NH2	1:C:626:LEU:O	2.34	0.61
1:E:604:ARG:NH2	1:E:626:LEU:O	2.34	0.61
1:H:604:ARG:NH2	1:H:626:LEU:O	2.34	0.61
1:L:226:LYS:HA	1:L:229:ILE:HD12	1.82	0.61
1:O:510:ALA:HB1	1:O:513:ALA:HB3	1.81	0.61
1:O:539:GLY:HA2	1:O:577:LEU:O	2.00	0.61
1:E:510:ALA:HB1	1:E:513:ALA:HB3	1.81	0.61
1:H:326:ILE:HD11	1:H:502:GLN:HE21	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:539:GLY:HA2	1:L:577:LEU:O	2.00	0.61
1:A:184:VAL:HG13	1:A:187:LEU:HD12	1.82	0.61
1:A:604:ARG:NH2	1:A:626:LEU:O	2.34	0.61
1:G:539:GLY:HA2	1:G:577:LEU:O	2.00	0.61
1:G:604:ARG:NH2	1:G:626:LEU:O	2.34	0.61
1:I:184:VAL:HG13	1:I:187:LEU:HD12	1.82	0.61
1:L:609:PHE:CG	1:M:639:ILE:HD12	2.33	0.61
1:M:184:VAL:HG13	1:M:187:LEU:HD12	1.82	0.61
1:M:510:ALA:HB1	1:M:513:ALA:HB3	1.81	0.61
1:M:604:ARG:NH2	1:M:626:LEU:O	2.34	0.61
1:A:226:LYS:HA	1:A:229:ILE:HD12	1.82	0.61
1:B:244:VAL:HG22	1:B:295:VAL:HG22	1.81	0.61
1:E:184:VAL:HG13	1:E:187:LEU:HD12	1.82	0.61
1:F:184:VAL:HG13	1:F:187:LEU:HD12	1.82	0.61
1:G:326:ILE:HD11	1:G:502:GLN:HE21	1.64	0.61
1:J:184:VAL:HG13	1:J:187:LEU:HD12	1.82	0.61
1:K:604:ARG:NH2	1:K:626:LEU:O	2.34	0.61
1:M:226:LYS:HA	1:M:229:ILE:HD12	1.82	0.61
1:M:244:VAL:HG22	1:M:295:VAL:HG22	1.81	0.61
1:O:604:ARG:NH2	1:O:626:LEU:O	2.34	0.61
1:G:260:LYS:O	1:G:263:SER:OG	2.17	0.60
1:H:184:VAL:HG13	1:H:187:LEU:HD12	1.82	0.60
1:N:604:ARG:NH2	1:N:626:LEU:O	2.34	0.60
1:D:142:ILE:HD11	1:D:156:ILE:HD12	1.84	0.60
1:D:184:VAL:HG13	1:D:187:LEU:HD12	1.82	0.60
1:F:226:LYS:HA	1:F:229:ILE:HD12	1.82	0.60
1:M:539:GLY:HA2	1:M:577:LEU:O	2.00	0.60
1:N:539:GLY:HA2	1:N:577:LEU:O	2.00	0.60
1:O:257:GLU:OE1	1:O:257:GLU:HA	1.99	0.60
1:B:142:ILE:HD11	1:B:156:ILE:HD12	1.84	0.60
1:E:176:SER:OG	1:E:208:GLU:OE2	2.16	0.60
1:G:184:VAL:HG13	1:G:187:LEU:HD12	1.82	0.60
1:L:166:GLU:HB2	1:L:222:ARG:HH21	1.67	0.60
1:N:226:LYS:HA	1:N:229:ILE:HD12	1.82	0.60
1:O:166:GLU:HB2	1:O:222:ARG:HH21	1.67	0.60
1:A:142:ILE:HD11	1:A:156:ILE:HD12	1.84	0.60
1:C:184:VAL:HG13	1:C:187:LEU:HD12	1.82	0.60
1:E:154:GLU:O	1:E:158:ARG:HB2	2.02	0.60
1:F:154:GLU:O	1:F:158:ARG:HB2	2.02	0.60
1:G:154:GLU:O	1:G:158:ARG:HB2	2.02	0.60
1:G:226:LYS:HA	1:G:229:ILE:HD12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:260:LYS:O	1:I:263:SER:OG	2.17	0.60
1:K:184:VAL:HG13	1:K:187:LEU:HD12	1.82	0.60
1:L:184:VAL:HG13	1:L:187:LEU:HD12	1.82	0.60
1:B:184:VAL:HG13	1:B:187:LEU:HD12	1.82	0.60
1:C:142:ILE:HD11	1:C:156:ILE:HD12	1.84	0.60
1:F:142:ILE:HD11	1:F:156:ILE:HD12	1.84	0.60
1:L:604:ARG:NH2	1:L:626:LEU:O	2.34	0.60
1:O:244:VAL:HG22	1:O:295:VAL:HG22	1.81	0.60
1:E:142:ILE:HD11	1:E:156:ILE:HD12	1.84	0.60
1:H:260:LYS:O	1:H:263:SER:OG	2.17	0.60
1:I:104:VAL:HG22	1:I:141:LEU:HD23	1.83	0.60
1:C:154:GLU:O	1:C:158:ARG:HB2	2.02	0.60
1:D:154:GLU:O	1:D:158:ARG:HB2	2.02	0.60
1:G:104:VAL:HG22	1:G:141:LEU:HD23	1.83	0.60
1:H:154:GLU:O	1:H:158:ARG:HB2	2.02	0.60
1:M:609:PHE:CG	1:N:639:ILE:HD12	2.34	0.60
1:O:142:ILE:HD11	1:O:156:ILE:HD12	1.84	0.60
1:G:142:ILE:HD11	1:G:156:ILE:HD12	1.84	0.60
1:G:609:PHE:CG	1:H:639:ILE:HD12	2.33	0.60
1:J:260:LYS:O	1:J:263:SER:OG	2.17	0.60
1:K:609:PHE:CG	1:L:639:ILE:HD12	2.34	0.60
1:N:142:ILE:HD11	1:N:156:ILE:HD12	1.84	0.60
1:O:226:LYS:HA	1:O:229:ILE:HD12	1.82	0.60
1:I:121:GLN:O	1:I:125:ASN:N	2.33	0.60
1:J:166:GLU:HB2	1:J:222:ARG:HH21	1.67	0.60
1:B:166:GLU:HB2	1:B:222:ARG:HH21	1.67	0.59
1:N:490:ILE:HG22	1:N:491:ASN:O	2.03	0.59
1:H:490:ILE:HG22	1:H:491:ASN:O	2.03	0.59
1:I:154:GLU:O	1:I:158:ARG:HB2	2.02	0.59
1:I:166:GLU:HB2	1:I:222:ARG:HH21	1.67	0.59
1:N:166:GLU:HB2	1:N:222:ARG:HH21	1.67	0.59
1:A:177:ALA:HB3	1:A:208:GLU:CG	2.33	0.59
1:A:490:ILE:HG22	1:A:491:ASN:O	2.03	0.59
1:B:154:GLU:O	1:B:158:ARG:HB2	2.02	0.59
1:F:490:ILE:HG22	1:F:491:ASN:O	2.03	0.59
1:H:104:VAL:HG22	1:H:141:LEU:HD23	1.83	0.59
1:K:104:VAL:HG22	1:K:141:LEU:HD23	1.84	0.59
1:K:260:LYS:O	1:K:263:SER:OG	2.17	0.59
1:L:490:ILE:HG22	1:L:491:ASN:O	2.03	0.59
1:M:166:GLU:HB2	1:M:222:ARG:HH21	1.67	0.59
1:M:177:ALA:HB3	1:M:208:GLU:CG	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:177:ALA:HB3	1:O:208:GLU:CG	2.33	0.59
1:A:104:VAL:HG22	1:A:141:LEU:HD23	1.83	0.59
1:C:166:GLU:HB2	1:C:222:ARG:HH21	1.67	0.59
1:E:166:GLU:HB2	1:E:222:ARG:HH21	1.67	0.59
1:J:104:VAL:HG22	1:J:141:LEU:HD23	1.84	0.59
1:J:177:ALA:HB3	1:J:208:GLU:CG	2.33	0.59
1:J:490:ILE:HG22	1:J:491:ASN:O	2.03	0.59
1:L:260:LYS:O	1:L:263:SER:OG	2.17	0.59
1:O:104:VAL:HG22	1:O:141:LEU:HD23	1.84	0.59
1:F:166:GLU:HB2	1:F:222:ARG:HH21	1.67	0.59
1:G:166:GLU:HB2	1:G:222:ARG:HH21	1.67	0.59
1:K:177:ALA:HB3	1:K:208:GLU:CG	2.33	0.59
1:N:104:VAL:HG22	1:N:141:LEU:HD23	1.83	0.59
1:B:104:VAL:HG22	1:B:141:LEU:HD23	1.84	0.59
1:C:490:ILE:HG22	1:C:491:ASN:O	2.03	0.59
1:J:154:GLU:O	1:J:158:ARG:HB2	2.02	0.59
1:M:142:ILE:HD11	1:M:156:ILE:HD12	1.84	0.59
1:N:154:GLU:O	1:N:158:ARG:HB2	2.02	0.59
1:B:490:ILE:HG22	1:B:491:ASN:O	2.03	0.59
1:C:104:VAL:HG22	1:C:141:LEU:HD23	1.84	0.59
1:D:490:ILE:HG22	1:D:491:ASN:O	2.03	0.59
1:F:224:ARG:O	1:F:227:ARG:HB2	2.03	0.59
1:H:121:GLN:O	1:H:125:ASN:N	2.33	0.59
1:I:177:ALA:HB3	1:I:208:GLU:CG	2.33	0.59
1:K:118:LEU:O	1:K:121:GLN:HB3	2.03	0.59
1:M:260:LYS:O	1:M:263:SER:OG	2.17	0.59
1:N:177:ALA:HB3	1:N:208:GLU:CG	2.33	0.59
1:O:154:GLU:O	1:O:158:ARG:HB2	2.02	0.59
1:B:177:ALA:HB3	1:B:208:GLU:CG	2.33	0.59
1:E:104:VAL:HG22	1:E:141:LEU:HD23	1.84	0.59
1:F:118:LEU:O	1:F:121:GLN:HB3	2.03	0.59
1:H:142:ILE:HD11	1:H:156:ILE:HD12	1.84	0.59
1:H:166:GLU:HB2	1:H:222:ARG:HH21	1.67	0.59
1:H:609:PHE:CG	1:I:639:ILE:HD12	2.34	0.59
1:J:118:LEU:O	1:J:121:GLN:HB3	2.03	0.59
1:K:166:GLU:HB2	1:K:222:ARG:HH21	1.67	0.59
1:M:154:GLU:O	1:M:158:ARG:HB2	2.02	0.59
1:D:166:GLU:HB2	1:D:222:ARG:HH21	1.67	0.59
1:E:224:ARG:O	1:E:227:ARG:HB2	2.03	0.59
1:F:104:VAL:HG22	1:F:141:LEU:HD23	1.84	0.59
1:G:118:LEU:O	1:G:121:GLN:HB3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:177:ALA:HB3	1:H:208:GLU:CG	2.33	0.59
1:L:118:LEU:O	1:L:121:GLN:HB3	2.03	0.59
1:L:154:GLU:O	1:L:158:ARG:HB2	2.02	0.59
1:A:154:GLU:O	1:A:158:ARG:HB2	2.02	0.59
1:A:166:GLU:HB2	1:A:222:ARG:HH21	1.67	0.59
1:E:118:LEU:O	1:E:121:GLN:HB3	2.03	0.59
1:F:176:SER:OG	1:F:208:GLU:OE2	2.16	0.59
1:I:142:ILE:HD11	1:I:156:ILE:HD12	1.84	0.59
1:I:444:ASP:OD1	1:I:445:ASN:N	2.36	0.59
1:J:142:ILE:HD11	1:J:156:ILE:HD12	1.84	0.59
1:K:154:GLU:O	1:K:158:ARG:HB2	2.02	0.59
1:L:177:ALA:HB3	1:L:208:GLU:CG	2.33	0.59
1:C:444:ASP:OD1	1:C:445:ASN:N	2.36	0.58
1:D:104:VAL:HG22	1:D:141:LEU:HD23	1.84	0.58
1:G:444:ASP:OD1	1:G:445:ASN:N	2.36	0.58
1:H:444:ASP:OD1	1:H:445:ASN:N	2.36	0.58
1:K:142:ILE:HD11	1:K:156:ILE:HD12	1.84	0.58
1:M:104:VAL:HG22	1:M:141:LEU:HD23	1.84	0.58
1:D:444:ASP:OD1	1:D:445:ASN:N	2.36	0.58
1:E:328:GLU:OE2	1:E:521:ARG:HD2	2.03	0.58
1:F:177:ALA:HB3	1:F:208:GLU:CG	2.33	0.58
1:F:328:GLU:OE2	1:F:521:ARG:HD2	2.03	0.58
1:G:177:ALA:HB3	1:G:208:GLU:CG	2.33	0.58
1:J:444:ASP:OD1	1:J:445:ASN:N	2.36	0.58
1:L:104:VAL:HG22	1:L:141:LEU:HD23	1.83	0.58
1:L:142:ILE:HD11	1:L:156:ILE:HD12	1.84	0.58
1:N:206:ALA:HA	1:N:212:SER:O	2.04	0.58
1:N:260:LYS:O	1:N:263:SER:OG	2.17	0.58
1:A:206:ALA:HA	1:A:212:SER:O	2.04	0.58
1:E:490:ILE:HG22	1:E:491:ASN:O	2.02	0.58
1:F:444:ASP:OD1	1:F:445:ASN:N	2.36	0.58
1:G:206:ALA:HA	1:G:212:SER:O	2.04	0.58
1:G:224:ARG:O	1:G:227:ARG:HB2	2.03	0.58
1:H:224:ARG:O	1:H:227:ARG:HB2	2.03	0.58
1:K:444:ASP:OD1	1:K:445:ASN:N	2.36	0.58
1:K:490:ILE:HG22	1:K:491:ASN:O	2.03	0.58
1:C:177:ALA:HB3	1:C:208:GLU:CG	2.33	0.58
1:D:118:LEU:O	1:D:121:GLN:HB3	2.03	0.58
1:E:444:ASP:OD1	1:E:445:ASN:N	2.36	0.58
1:G:328:GLU:OE2	1:G:521:ARG:HD2	2.03	0.58
1:H:328:GLU:OE2	1:H:521:ARG:HD2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:328:GLU:OE2	1:I:521:ARG:HD2	2.03	0.58
1:I:490:ILE:HG22	1:I:491:ASN:O	2.02	0.58
1:J:224:ARG:O	1:J:227:ARG:HB2	2.03	0.58
1:A:118:LEU:O	1:A:121:GLN:HB3	2.03	0.58
1:D:206:ALA:HA	1:D:212:SER:O	2.04	0.58
1:G:490:ILE:HG22	1:G:491:ASN:O	2.02	0.58
1:J:328:GLU:OE2	1:J:521:ARG:HD2	2.03	0.58
1:N:164:ASP:O	1:N:219:PRO:HD2	2.04	0.58
1:B:118:LEU:O	1:B:121:GLN:HB3	2.03	0.58
1:B:206:ALA:HA	1:B:212:SER:O	2.04	0.58
1:E:107:VAL:HG22	1:E:160:ASP:HB2	1.86	0.58
1:E:164:ASP:O	1:E:219:PRO:HD2	2.04	0.58
1:F:206:ALA:HA	1:F:212:SER:O	2.04	0.58
1:G:121:GLN:O	1:G:125:ASN:N	2.33	0.58
1:H:118:LEU:O	1:H:121:GLN:HB3	2.03	0.58
1:H:206:ALA:HA	1:H:212:SER:O	2.04	0.58
1:I:118:LEU:O	1:I:121:GLN:HB3	2.03	0.58
1:I:224:ARG:O	1:I:227:ARG:HB2	2.03	0.58
1:J:107:VAL:HG22	1:J:160:ASP:HB2	1.86	0.58
1:L:444:ASP:OD1	1:L:445:ASN:N	2.36	0.58
1:M:118:LEU:O	1:M:121:GLN:HB3	2.03	0.58
1:N:224:ARG:O	1:N:227:ARG:HB2	2.03	0.58
1:O:105:VAL:HG11	1:O:157:ARG:HE	1.69	0.58
1:O:224:ARG:O	1:O:227:ARG:HB2	2.03	0.58
1:B:444:ASP:OD1	1:B:445:ASN:N	2.36	0.58
1:C:132:VAL:HG12	1:C:134:TYR:CE1	2.39	0.58
1:C:256:VAL:O	1:C:260:LYS:HG2	2.04	0.58
1:E:177:ALA:HB3	1:E:208:GLU:CG	2.33	0.58
1:F:164:ASP:O	1:F:219:PRO:HD2	2.04	0.58
1:L:107:VAL:HG22	1:L:160:ASP:HB2	1.86	0.58
1:M:107:VAL:HG22	1:M:160:ASP:HB2	1.86	0.58
1:M:164:ASP:O	1:M:219:PRO:HD2	2.04	0.58
1:M:224:ARG:O	1:M:227:ARG:HB2	2.03	0.58
1:M:444:ASP:OD1	1:M:445:ASN:N	2.36	0.58
1:N:444:ASP:OD1	1:N:445:ASN:N	2.36	0.58
1:O:164:ASP:O	1:O:219:PRO:HD2	2.04	0.58
1:O:490:ILE:HG22	1:O:491:ASN:O	2.02	0.58
1:D:132:VAL:HG12	1:D:134:TYR:CE1	2.39	0.58
1:D:164:ASP:O	1:D:219:PRO:HD2	2.04	0.58
1:D:256:VAL:O	1:D:260:LYS:HG2	2.04	0.58
1:F:107:VAL:HG22	1:F:160:ASP:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:107:VAL:HG22	1:G:160:ASP:HB2	1.86	0.58
1:H:107:VAL:HG22	1:H:160:ASP:HB2	1.86	0.58
1:I:132:VAL:HG12	1:I:134:TYR:CE1	2.39	0.58
1:M:105:VAL:HG11	1:M:157:ARG:HE	1.69	0.58
1:M:490:ILE:HG22	1:M:491:ASN:O	2.03	0.58
1:B:105:VAL:HG11	1:B:157:ARG:HE	1.69	0.58
1:D:224:ARG:O	1:D:227:ARG:HB2	2.03	0.58
1:E:256:VAL:O	1:E:260:LYS:HG2	2.04	0.58
1:G:164:ASP:O	1:G:219:PRO:HD2	2.04	0.58
1:H:256:VAL:O	1:H:260:LYS:HG2	2.04	0.58
1:K:206:ALA:HA	1:K:212:SER:O	2.04	0.58
1:O:132:VAL:HG12	1:O:134:TYR:CE1	2.39	0.58
1:A:181:VAL:O	1:A:185:GLU:HG3	2.04	0.58
1:A:224:ARG:O	1:A:227:ARG:HB2	2.03	0.58
1:B:256:VAL:O	1:B:260:LYS:HG2	2.04	0.58
1:D:328:GLU:OE2	1:D:521:ARG:HD2	2.03	0.58
1:H:164:ASP:O	1:H:219:PRO:HD2	2.04	0.58
1:I:107:VAL:HG22	1:I:160:ASP:HB2	1.86	0.58
1:K:107:VAL:HG22	1:K:160:ASP:HB2	1.86	0.58
1:K:224:ARG:O	1:K:227:ARG:HB2	2.03	0.58
1:L:164:ASP:O	1:L:219:PRO:HD2	2.04	0.58
1:M:206:ALA:HA	1:M:212:SER:O	2.04	0.58
1:O:118:LEU:O	1:O:121:GLN:HB3	2.03	0.58
1:O:181:VAL:O	1:O:185:GLU:HG3	2.04	0.58
1:O:444:ASP:OD1	1:O:445:ASN:N	2.36	0.58
1:A:444:ASP:OD1	1:A:445:ASN:N	2.36	0.57
1:B:107:VAL:HG22	1:B:160:ASP:HB2	1.86	0.57
1:B:181:VAL:O	1:B:185:GLU:HG3	2.04	0.57
1:B:224:ARG:O	1:B:227:ARG:HB2	2.03	0.57
1:C:107:VAL:HG22	1:C:160:ASP:HB2	1.86	0.57
1:C:118:LEU:O	1:C:121:GLN:HB3	2.03	0.57
1:D:107:VAL:HG22	1:D:160:ASP:HB2	1.86	0.57
1:D:177:ALA:HB3	1:D:208:GLU:CG	2.33	0.57
1:I:256:VAL:O	1:I:260:LYS:HG2	2.04	0.57
1:A:107:VAL:HG22	1:A:160:ASP:HB2	1.86	0.57
1:B:132:VAL:HG12	1:B:134:TYR:CE1	2.39	0.57
1:C:105:VAL:HG11	1:C:157:ARG:HE	1.69	0.57
1:C:164:ASP:O	1:C:219:PRO:HD2	2.04	0.57
1:C:224:ARG:O	1:C:227:ARG:HB2	2.03	0.57
1:E:105:VAL:HG11	1:E:157:ARG:HE	1.69	0.57
1:I:206:ALA:HA	1:I:212:SER:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:132:VAL:HG12	1:L:134:TYR:CE1	2.39	0.57
1:L:256:VAL:O	1:L:260:LYS:HG2	2.04	0.57
1:O:260:LYS:O	1:O:263:SER:OG	2.17	0.57
1:A:256:VAL:O	1:A:260:LYS:HG2	2.04	0.57
1:E:206:ALA:HA	1:E:212:SER:O	2.04	0.57
1:F:256:VAL:O	1:F:260:LYS:HG2	2.04	0.57
1:K:132:VAL:HG12	1:K:134:TYR:CE1	2.39	0.57
1:K:328:GLU:OE2	1:K:521:ARG:HD2	2.03	0.57
1:L:224:ARG:O	1:L:227:ARG:HB2	2.03	0.57
1:N:107:VAL:HG22	1:N:160:ASP:HB2	1.86	0.57
1:N:181:VAL:O	1:N:185:GLU:HG3	2.04	0.57
1:A:132:VAL:HG12	1:A:134:TYR:CE1	2.39	0.57
1:A:164:ASP:O	1:A:219:PRO:HD2	2.04	0.57
1:A:328:GLU:OE2	1:A:521:ARG:HD2	2.03	0.57
1:G:181:VAL:O	1:G:185:GLU:HG3	2.04	0.57
1:H:181:VAL:O	1:H:185:GLU:HG3	2.04	0.57
1:I:164:ASP:O	1:I:219:PRO:HD2	2.04	0.57
1:I:181:VAL:O	1:I:185:GLU:HG3	2.04	0.57
1:J:181:VAL:O	1:J:185:GLU:HG3	2.04	0.57
1:K:164:ASP:O	1:K:219:PRO:HD2	2.04	0.57
1:L:206:ALA:HA	1:L:212:SER:O	2.04	0.57
1:M:256:VAL:O	1:M:260:LYS:HG2	2.04	0.57
1:N:118:LEU:O	1:N:121:GLN:HB3	2.03	0.57
1:N:132:VAL:HG12	1:N:134:TYR:CE1	2.39	0.57
1:N:256:VAL:O	1:N:260:LYS:HG2	2.04	0.57
1:O:107:VAL:HG22	1:O:160:ASP:HB2	1.86	0.57
1:A:105:VAL:HG11	1:A:157:ARG:HE	1.69	0.57
1:B:112:VAL:HG21	1:B:140:ILE:HD11	1.87	0.57
1:C:112:VAL:HG21	1:C:140:ILE:HD11	1.87	0.57
1:C:206:ALA:HA	1:C:212:SER:O	2.03	0.57
1:J:105:VAL:HG11	1:J:157:ARG:HE	1.69	0.57
1:J:164:ASP:O	1:J:219:PRO:HD2	2.04	0.57
1:K:181:VAL:O	1:K:185:GLU:HG3	2.04	0.57
1:K:256:VAL:O	1:K:260:LYS:HG2	2.04	0.57
1:O:256:VAL:O	1:O:260:LYS:HG2	2.04	0.57
1:A:112:VAL:HG21	1:A:140:ILE:HD11	1.87	0.57
1:B:328:GLU:OE2	1:B:521:ARG:HD2	2.03	0.57
1:F:181:VAL:O	1:F:185:GLU:HG3	2.04	0.57
1:G:105:VAL:HG11	1:G:157:ARG:HE	1.69	0.57
1:K:105:VAL:HG11	1:K:157:ARG:HE	1.69	0.57
1:L:105:VAL:HG11	1:L:157:ARG:HE	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:112:VAL:HG21	1:D:140:ILE:HD11	1.87	0.57
1:E:181:VAL:O	1:E:185:GLU:HG3	2.04	0.57
1:G:256:VAL:O	1:G:260:LYS:HG2	2.04	0.57
1:H:132:VAL:HG12	1:H:134:TYR:CE1	2.39	0.57
1:J:206:ALA:HA	1:J:212:SER:O	2.04	0.57
1:L:181:VAL:O	1:L:185:GLU:HG3	2.04	0.57
1:M:112:VAL:HG21	1:M:140:ILE:HD11	1.87	0.57
1:N:105:VAL:HG11	1:N:157:ARG:HE	1.69	0.57
1:O:206:ALA:HA	1:O:212:SER:O	2.04	0.57
1:O:328:GLU:OE2	1:O:521:ARG:HD2	2.03	0.57
1:F:132:VAL:HG12	1:F:134:TYR:CE1	2.39	0.57
1:G:132:VAL:HG12	1:G:134:TYR:CE1	2.39	0.57
1:H:259:LEU:HD11	1:H:310:ILE:HG13	1.87	0.57
1:J:132:VAL:HG12	1:J:134:TYR:CE1	2.39	0.57
1:J:256:VAL:O	1:J:260:LYS:HG2	2.04	0.57
1:L:112:VAL:HG21	1:L:140:ILE:HD11	1.87	0.57
1:M:181:VAL:O	1:M:185:GLU:HG3	2.04	0.57
1:N:112:VAL:HG21	1:N:140:ILE:HD11	1.87	0.57
1:C:181:VAL:O	1:C:185:GLU:HG3	2.04	0.57
1:E:259:LEU:HD11	1:E:310:ILE:HG13	1.87	0.57
1:G:259:LEU:HD11	1:G:310:ILE:HG13	1.87	0.57
1:H:105:VAL:HG11	1:H:157:ARG:HE	1.69	0.57
1:O:112:VAL:HG21	1:O:140:ILE:HD11	1.87	0.57
1:C:328:GLU:OE2	1:C:521:ARG:HD2	2.03	0.57
1:E:132:VAL:HG12	1:E:134:TYR:CE1	2.39	0.57
1:F:259:LEU:HD11	1:F:310:ILE:HG13	1.87	0.57
1:K:172:LEU:HG	1:K:212:SER:HA	1.87	0.57
1:N:328:GLU:OE2	1:N:521:ARG:HD2	2.03	0.57
1:A:121:GLN:O	1:A:125:ASN:N	2.33	0.56
1:E:112:VAL:HG21	1:E:140:ILE:HD11	1.87	0.56
1:I:172:LEU:HG	1:I:212:SER:HA	1.87	0.56
1:J:172:LEU:HG	1:J:212:SER:HA	1.87	0.56
1:J:180:MET:HE2	1:J:213:ILE:HD11	1.85	0.56
1:M:121:GLN:O	1:M:125:ASN:N	2.33	0.56
1:B:121:GLN:O	1:B:125:ASN:N	2.33	0.56
1:B:164:ASP:O	1:B:219:PRO:HD2	2.04	0.56
1:D:105:VAL:HG11	1:D:157:ARG:HE	1.69	0.56
1:D:259:LEU:HD11	1:D:310:ILE:HG13	1.87	0.56
1:F:121:GLN:O	1:F:125:ASN:N	2.33	0.56
1:I:259:LEU:HD11	1:I:310:ILE:HG13	1.87	0.56
1:K:112:VAL:HG21	1:K:140:ILE:HD11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:172:LEU:HG	1:L:212:SER:HA	1.87	0.56
1:A:260:LYS:O	1:A:263:SER:OG	2.17	0.56
1:D:181:VAL:O	1:D:185:GLU:HG3	2.04	0.56
1:H:172:LEU:HG	1:H:212:SER:HA	1.87	0.56
1:J:259:LEU:HD11	1:J:310:ILE:HG13	1.87	0.56
1:J:520:LYS:HZ1	1:K:479:GLU:CD	2.06	0.56
1:K:330:ALA:HB3	1:K:432:SER:HB3	1.88	0.56
1:M:132:VAL:HG12	1:M:134:TYR:CE1	2.39	0.56
1:M:328:GLU:OE2	1:M:521:ARG:HD2	2.03	0.56
1:F:112:VAL:HG21	1:F:140:ILE:HD11	1.87	0.56
1:L:330:ALA:HB3	1:L:432:SER:HB3	1.88	0.56
1:M:172:LEU:HG	1:M:212:SER:HA	1.87	0.56
1:N:172:LEU:HG	1:N:212:SER:HA	1.87	0.56
1:O:172:LEU:HG	1:O:212:SER:HA	1.87	0.56
1:O:259:LEU:HD11	1:O:310:ILE:HG13	1.87	0.56
1:A:259:LEU:HD11	1:A:310:ILE:HG13	1.87	0.56
1:C:259:LEU:HD11	1:C:310:ILE:HG13	1.87	0.56
1:F:105:VAL:HG11	1:F:157:ARG:HE	1.69	0.56
1:I:207:ASP:OD1	1:I:209:ARG:N	2.33	0.56
1:J:112:VAL:HG21	1:J:140:ILE:HD11	1.87	0.56
1:J:330:ALA:HB3	1:J:432:SER:HB3	1.88	0.56
1:L:328:GLU:OE2	1:L:521:ARG:HD2	2.03	0.56
1:A:172:LEU:HG	1:A:212:SER:HA	1.87	0.56
1:D:215:ILE:HD11	1:D:225:LEU:HD13	1.88	0.56
1:D:330:ALA:HB3	1:D:432:SER:HB3	1.88	0.56
1:M:259:LEU:HD11	1:M:310:ILE:HG13	1.87	0.56
1:N:259:LEU:HD11	1:N:310:ILE:HG13	1.87	0.56
1:O:121:GLN:O	1:O:125:ASN:N	2.33	0.56
1:E:215:ILE:HD11	1:E:225:LEU:HD13	1.88	0.56
1:F:215:ILE:HD11	1:F:225:LEU:HD13	1.88	0.56
1:J:207:ASP:OD1	1:J:209:ARG:N	2.33	0.56
1:L:259:LEU:HD11	1:L:310:ILE:HG13	1.87	0.56
1:C:215:ILE:HD11	1:C:225:LEU:HD13	1.88	0.56
1:C:330:ALA:HB3	1:C:432:SER:HB3	1.88	0.56
1:G:172:LEU:HG	1:G:212:SER:HA	1.87	0.56
1:M:330:ALA:HB3	1:M:432:SER:HB3	1.88	0.56
1:B:172:LEU:HG	1:B:212:SER:HA	1.87	0.56
1:I:112:VAL:HG21	1:I:140:ILE:HD11	1.87	0.56
1:I:330:ALA:HB3	1:I:432:SER:HB3	1.88	0.56
1:C:207:ASP:O	1:C:211:ASN:CA	2.54	0.56
1:E:330:ALA:HB3	1:E:432:SER:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:112:VAL:HG21	1:G:140:ILE:HD11	1.87	0.56
1:K:207:ASP:OD1	1:K:209:ARG:N	2.33	0.56
1:K:259:LEU:HD11	1:K:310:ILE:HG13	1.87	0.56
1:L:207:ASP:O	1:L:211:ASN:CA	2.54	0.56
1:B:259:LEU:HD11	1:B:310:ILE:HG13	1.87	0.55
1:B:330:ALA:HB3	1:B:432:SER:HB3	1.88	0.55
1:C:121:GLN:O	1:C:125:ASN:N	2.33	0.55
1:H:112:VAL:HG21	1:H:140:ILE:HD11	1.87	0.55
1:J:207:ASP:O	1:J:211:ASN:CA	2.54	0.55
1:M:207:ASP:O	1:M:211:ASN:CA	2.54	0.55
1:N:207:ASP:O	1:N:211:ASN:CA	2.54	0.55
1:B:180:MET:HE2	1:B:213:ILE:HD11	1.88	0.55
1:B:609:PHE:CE2	1:C:639:ILE:HD11	2.42	0.55
1:C:520:LYS:HZ1	1:D:479:GLU:CD	2.04	0.55
1:E:177:ALA:HB3	1:E:208:GLU:HG2	1.89	0.55
1:E:207:ASP:O	1:E:211:ASN:CA	2.54	0.55
1:F:609:PHE:CE2	1:G:639:ILE:HD11	2.42	0.55
1:G:215:ILE:HD11	1:G:225:LEU:HD13	1.88	0.55
1:K:207:ASP:O	1:K:211:ASN:CA	2.54	0.55
1:O:207:ASP:O	1:O:211:ASN:CA	2.54	0.55
1:A:207:ASP:O	1:A:211:ASN:CA	2.54	0.55
1:B:215:ILE:HD11	1:B:225:LEU:HD13	1.88	0.55
1:C:172:LEU:HG	1:C:212:SER:HA	1.87	0.55
1:H:207:ASP:O	1:H:211:ASN:CA	2.54	0.55
1:H:330:ALA:HB3	1:H:432:SER:HB3	1.88	0.55
1:I:105:VAL:HG11	1:I:157:ARG:HE	1.69	0.55
1:C:609:PHE:CE2	1:D:639:ILE:HD11	2.42	0.55
1:D:121:GLN:O	1:D:125:ASN:N	2.33	0.55
1:E:121:GLN:O	1:E:125:ASN:N	2.33	0.55
1:E:609:PHE:CE2	1:F:639:ILE:HD11	2.42	0.55
1:F:172:LEU:HG	1:F:212:SER:HA	1.87	0.55
1:G:207:ASP:O	1:G:211:ASN:CA	2.54	0.55
1:B:207:ASP:O	1:B:211:ASN:CA	2.54	0.55
1:H:215:ILE:HD11	1:H:225:LEU:HD13	1.88	0.55
1:D:172:LEU:HG	1:D:212:SER:HA	1.87	0.55
1:E:207:ASP:OD1	1:E:209:ARG:N	2.33	0.55
1:F:330:ALA:HB3	1:F:432:SER:HB3	1.88	0.55
1:I:207:ASP:O	1:I:211:ASN:CA	2.54	0.55
1:N:330:ALA:HB3	1:N:432:SER:HB3	1.88	0.55
1:A:330:ALA:HB3	1:A:432:SER:HB3	1.88	0.55
1:E:172:LEU:HG	1:E:212:SER:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:207:ASP:O	1:F:211:ASN:CA	2.54	0.55
1:A:215:ILE:HD11	1:A:225:LEU:HD13	1.88	0.55
1:A:609:PHE:CE2	1:B:639:ILE:HD11	2.42	0.55
1:C:207:ASP:OD1	1:C:209:ARG:N	2.33	0.55
1:D:177:ALA:HB3	1:D:208:GLU:HG2	1.89	0.55
1:H:177:ALA:HB3	1:H:208:GLU:HG2	1.89	0.55
1:I:215:ILE:HD11	1:I:225:LEU:HD13	1.88	0.55
1:B:177:ALA:HB3	1:B:208:GLU:HG2	1.89	0.55
1:D:207:ASP:O	1:D:211:ASN:CA	2.54	0.55
1:J:215:ILE:HD11	1:J:225:LEU:HD13	1.88	0.55
1:N:121:GLN:O	1:N:125:ASN:N	2.33	0.55
1:A:177:ALA:HB3	1:A:208:GLU:HG2	1.89	0.54
1:F:177:ALA:HB3	1:F:208:GLU:HG2	1.89	0.54
1:G:330:ALA:HB3	1:G:432:SER:HB3	1.88	0.54
1:M:215:ILE:HD11	1:M:225:LEU:HD13	1.88	0.54
1:O:215:ILE:HD11	1:O:225:LEU:HD13	1.88	0.54
1:F:183:ILE:HD12	1:F:232:LEU:HD13	1.89	0.54
1:G:183:ILE:HD12	1:G:232:LEU:HD13	1.89	0.54
1:A:639:ILE:HD11	1:O:609:PHE:CE2	2.42	0.54
1:D:259:LEU:HD11	1:D:310:ILE:CG1	2.38	0.54
1:I:177:ALA:HB3	1:I:208:GLU:HG2	1.89	0.54
1:L:121:GLN:O	1:L:125:ASN:N	2.33	0.54
1:E:183:ILE:HD12	1:E:232:LEU:HD13	1.89	0.54
1:E:259:LEU:HD11	1:E:310:ILE:CG1	2.38	0.54
1:G:177:ALA:HB3	1:G:208:GLU:HG2	1.89	0.54
1:K:259:LEU:HD11	1:K:310:ILE:CG1	2.38	0.54
1:L:259:LEU:HD11	1:L:310:ILE:CG1	2.38	0.54
1:N:215:ILE:HD11	1:N:225:LEU:HD13	1.88	0.54
1:O:183:ILE:HD12	1:O:232:LEU:HD13	1.89	0.54
1:C:259:LEU:HD11	1:C:310:ILE:CG1	2.38	0.54
1:D:609:PHE:CE2	1:E:639:ILE:HD11	2.42	0.54
1:G:132:VAL:HA	1:G:141:LEU:O	2.08	0.54
1:H:183:ILE:HD12	1:H:232:LEU:HD13	1.89	0.54
1:K:215:ILE:HD11	1:K:225:LEU:HD13	1.88	0.54
1:L:215:ILE:HD11	1:L:225:LEU:HD13	1.88	0.54
1:N:183:ILE:HD12	1:N:232:LEU:HD13	1.89	0.54
1:O:330:ALA:HB3	1:O:432:SER:HB3	1.88	0.54
1:A:183:ILE:HD12	1:A:232:LEU:HD13	1.89	0.54
1:H:132:VAL:HA	1:H:141:LEU:O	2.08	0.54
1:N:132:VAL:HA	1:N:141:LEU:O	2.08	0.54
1:F:259:LEU:HD11	1:F:310:ILE:CG1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:259:LEU:HD11	1:J:310:ILE:CG1	2.38	0.54
1:M:132:VAL:HA	1:M:141:LEU:O	2.08	0.54
1:O:259:LEU:HD11	1:O:310:ILE:CG1	2.38	0.54
1:C:132:VAL:HA	1:C:141:LEU:O	2.08	0.54
1:F:132:VAL:HA	1:F:141:LEU:O	2.08	0.54
1:H:259:LEU:HD11	1:H:310:ILE:CG1	2.38	0.54
1:L:609:PHE:CE2	1:M:639:ILE:HD11	2.42	0.54
1:M:259:LEU:HD11	1:M:310:ILE:CG1	2.38	0.54
1:N:259:LEU:HD11	1:N:310:ILE:CG1	2.38	0.54
1:O:177:ALA:HB3	1:O:208:GLU:HG2	1.89	0.54
1:D:183:ILE:HD12	1:D:232:LEU:HD13	1.89	0.54
1:I:132:VAL:HA	1:I:141:LEU:O	2.08	0.54
1:J:609:PHE:CE2	1:K:639:ILE:HD11	2.42	0.54
1:N:177:ALA:HB3	1:N:208:GLU:HG2	1.89	0.54
1:B:183:ILE:HD12	1:B:232:LEU:HD13	1.89	0.54
1:B:259:LEU:HD11	1:B:310:ILE:CG1	2.38	0.54
1:F:207:ASP:OD1	1:F:209:ARG:N	2.33	0.54
1:I:183:ILE:HD12	1:I:232:LEU:HD13	1.89	0.54
1:B:132:VAL:HA	1:B:141:LEU:O	2.08	0.53
1:C:177:ALA:HB3	1:C:208:GLU:HG2	1.89	0.53
1:G:259:LEU:HD11	1:G:310:ILE:CG1	2.38	0.53
1:J:177:ALA:HB3	1:J:208:GLU:HG2	1.89	0.53
1:L:177:ALA:HB3	1:L:208:GLU:HG2	1.89	0.53
1:H:609:PHE:CE2	1:I:639:ILE:HD11	2.42	0.53
1:J:132:VAL:HA	1:J:141:LEU:O	2.08	0.53
1:M:183:ILE:HD12	1:M:232:LEU:HD13	1.89	0.53
1:B:122:LEU:HD23	1:B:125:ASN:ND2	2.19	0.53
1:I:259:LEU:HD11	1:I:310:ILE:CG1	2.38	0.53
1:K:177:ALA:HB3	1:K:208:GLU:HG2	1.89	0.53
1:N:180:MET:HE2	1:N:213:ILE:HD11	1.89	0.53
1:O:132:VAL:HA	1:O:141:LEU:O	2.08	0.53
1:C:183:ILE:HD12	1:C:232:LEU:HD13	1.89	0.53
1:L:102:THR:OG1	1:L:142:ILE:O	2.25	0.53
1:L:132:VAL:HA	1:L:141:LEU:O	2.08	0.53
1:M:177:ALA:HB3	1:M:208:GLU:HG2	1.89	0.53
1:A:259:LEU:HD11	1:A:310:ILE:CG1	2.38	0.53
1:C:174:ASN:HB2	1:C:233:ASP:O	2.09	0.53
1:D:132:VAL:HA	1:D:141:LEU:O	2.08	0.53
1:L:520:LYS:HZ1	1:M:479:GLU:CD	2.06	0.53
1:L:609:PHE:CD2	1:M:639:ILE:CD1	2.74	0.53
1:C:155:ILE:HG12	1:C:158:ARG:NH2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:132:VAL:HA	1:E:141:LEU:O	2.08	0.53
1:E:142:ILE:HG22	1:E:149:VAL:HG22	1.91	0.53
1:G:174:ASN:HB2	1:G:233:ASP:O	2.09	0.53
1:I:155:ILE:HG12	1:I:158:ARG:NH2	2.24	0.53
1:I:609:PHE:CE2	1:J:639:ILE:HD11	2.42	0.53
1:L:142:ILE:HG22	1:L:149:VAL:HG22	1.91	0.53
1:F:155:ILE:HG12	1:F:158:ARG:NH2	2.24	0.53
1:H:174:ASN:HB2	1:H:233:ASP:O	2.09	0.53
1:J:155:ILE:HG12	1:J:158:ARG:NH2	2.24	0.53
1:K:155:ILE:HG12	1:K:158:ARG:NH2	2.24	0.53
1:K:183:ILE:HD12	1:K:232:LEU:HD13	1.89	0.53
1:K:609:PHE:CE2	1:L:639:ILE:HD11	2.42	0.53
1:N:609:PHE:CE2	1:O:639:ILE:HD11	2.42	0.53
1:D:142:ILE:HG22	1:D:149:VAL:HG22	1.91	0.53
1:E:155:ILE:HG12	1:E:158:ARG:NH2	2.24	0.53
1:I:142:ILE:HG22	1:I:149:VAL:HG22	1.91	0.53
1:J:183:ILE:HD12	1:J:232:LEU:HD13	1.89	0.53
1:K:142:ILE:HG22	1:K:149:VAL:HG22	1.91	0.53
1:B:142:ILE:HG22	1:B:149:VAL:HG22	1.91	0.53
1:D:174:ASN:HB2	1:D:233:ASP:O	2.09	0.53
1:F:142:ILE:HG22	1:F:149:VAL:HG22	1.91	0.53
1:F:345:GLU:OE2	1:F:418:ASP:OD2	2.27	0.53
1:G:345:GLU:OE2	1:G:418:ASP:OD2	2.27	0.53
1:H:155:ILE:HG12	1:H:158:ARG:NH2	2.24	0.53
1:K:132:VAL:HA	1:K:141:LEU:O	2.08	0.53
1:L:155:ILE:HG12	1:L:158:ARG:NH2	2.24	0.53
1:M:142:ILE:HG22	1:M:149:VAL:HG22	1.91	0.53
1:N:142:ILE:HG22	1:N:149:VAL:HG22	1.91	0.53
1:A:626:LEU:HD23	1:O:435:LEU:HD21	1.91	0.52
1:G:108:LYS:HA	1:G:138:ASN:HD21	1.75	0.52
1:G:142:ILE:HG22	1:G:149:VAL:HG22	1.91	0.52
1:G:609:PHE:CE2	1:H:639:ILE:HD11	2.42	0.52
1:H:142:ILE:HG22	1:H:149:VAL:HG22	1.91	0.52
1:H:223:GLU:O	1:H:227:ARG:HG3	2.10	0.52
1:H:345:GLU:OE2	1:H:418:ASP:OD2	2.27	0.52
1:J:142:ILE:HG22	1:J:149:VAL:HG22	1.91	0.52
1:M:174:ASN:HB2	1:M:233:ASP:O	2.09	0.52
1:N:223:GLU:O	1:N:227:ARG:HG3	2.09	0.52
1:A:142:ILE:HG22	1:A:149:VAL:HG22	1.91	0.52
1:A:223:GLU:O	1:A:227:ARG:HG3	2.10	0.52
1:C:142:ILE:HG22	1:C:149:VAL:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:174:ASN:HB2	1:K:233:ASP:O	2.09	0.52
1:L:183:ILE:HD12	1:L:232:LEU:HD13	1.89	0.52
1:N:174:ASN:HB2	1:N:233:ASP:O	2.09	0.52
1:O:142:ILE:HG22	1:O:149:VAL:HG22	1.91	0.52
1:O:174:ASN:HB2	1:O:233:ASP:O	2.09	0.52
1:A:132:VAL:HA	1:A:141:LEU:O	2.08	0.52
1:B:104:VAL:HA	1:B:140:ILE:O	2.10	0.52
1:B:174:ASN:HB2	1:B:233:ASP:O	2.09	0.52
1:B:223:GLU:O	1:B:227:ARG:HG3	2.10	0.52
1:D:108:LYS:HA	1:D:138:ASN:HD21	1.75	0.52
1:D:155:ILE:HG12	1:D:158:ARG:NH2	2.24	0.52
1:D:207:ASP:OD1	1:D:209:ARG:N	2.33	0.52
1:E:345:GLU:OE2	1:E:418:ASP:OD2	2.27	0.52
1:I:223:GLU:O	1:I:227:ARG:HG3	2.10	0.52
1:I:345:GLU:OE2	1:I:418:ASP:OD2	2.27	0.52
1:K:108:LYS:HA	1:K:138:ASN:HD21	1.74	0.52
1:L:174:ASN:HB2	1:L:233:ASP:O	2.09	0.52
1:O:207:ASP:OD1	1:O:209:ARG:N	2.33	0.52
1:A:104:VAL:HA	1:A:140:ILE:O	2.10	0.52
1:A:155:ILE:HG12	1:A:158:ARG:NH2	2.24	0.52
1:A:163:GLY:O	1:A:165:LYS:HG3	2.10	0.52
1:A:435:LEU:HD21	1:B:626:LEU:HD23	1.91	0.52
1:C:104:VAL:HA	1:C:140:ILE:O	2.10	0.52
1:G:155:ILE:HG12	1:G:158:ARG:NH2	2.24	0.52
1:G:223:GLU:O	1:G:227:ARG:HG3	2.10	0.52
1:H:108:LYS:HA	1:H:138:ASN:HD21	1.75	0.52
1:H:163:GLY:O	1:H:165:LYS:HG3	2.10	0.52
1:I:435:LEU:HD21	1:J:626:LEU:HD23	1.91	0.52
1:J:108:LYS:HA	1:J:138:ASN:HD21	1.74	0.52
1:J:435:LEU:HD21	1:K:626:LEU:HD23	1.91	0.52
1:L:180:MET:HE2	1:L:213:ILE:HD11	1.90	0.52
1:M:155:ILE:HG12	1:M:158:ARG:NH2	2.24	0.52
1:M:223:GLU:O	1:M:227:ARG:HG3	2.09	0.52
1:N:435:LEU:HD21	1:O:626:LEU:HD23	1.91	0.52
1:O:223:GLU:O	1:O:227:ARG:HG3	2.10	0.52
1:A:109:ASN:ND2	1:A:160:ASP:O	2.43	0.52
1:A:140:ILE:HD13	1:A:156:ILE:CG2	2.40	0.52
1:A:174:ASN:HB2	1:A:233:ASP:O	2.09	0.52
1:B:109:ASN:ND2	1:B:160:ASP:O	2.43	0.52
1:C:109:ASN:ND2	1:C:160:ASP:O	2.43	0.52
1:C:223:GLU:O	1:C:227:ARG:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:223:GLU:O	1:D:227:ARG:HG3	2.09	0.52
1:F:174:ASN:HB2	1:F:233:ASP:O	2.09	0.52
1:H:105:VAL:O	1:H:140:ILE:CB	2.49	0.52
1:I:109:ASN:ND2	1:I:160:ASP:O	2.43	0.52
1:I:640:GLN:NE2	1:I:643:ILE:CG2	2.73	0.52
1:J:109:ASN:ND2	1:J:160:ASP:O	2.43	0.52
1:J:345:GLU:OE2	1:J:418:ASP:OD2	2.28	0.52
1:K:121:GLN:O	1:K:125:ASN:N	2.33	0.52
1:N:104:VAL:HA	1:N:140:ILE:O	2.10	0.52
1:N:224:ARG:HA	1:N:227:ARG:HD2	1.92	0.52
1:A:640:GLN:NE2	1:A:643:ILE:CG2	2.73	0.52
1:B:163:GLY:O	1:B:165:LYS:HG3	2.10	0.52
1:C:221:VAL:HG22	1:C:224:ARG:HH21	1.75	0.52
1:D:104:VAL:HA	1:D:140:ILE:O	2.10	0.52
1:F:163:GLY:O	1:F:165:LYS:HG3	2.10	0.52
1:G:207:ASP:OD1	1:G:209:ARG:N	2.33	0.52
1:G:640:GLN:NE2	1:G:643:ILE:CG2	2.73	0.52
1:H:109:ASN:ND2	1:H:160:ASP:O	2.43	0.52
1:J:163:GLY:O	1:J:165:LYS:HG3	2.10	0.52
1:J:174:ASN:HB2	1:J:233:ASP:O	2.09	0.52
1:M:140:ILE:HD13	1:M:156:ILE:CG2	2.40	0.52
1:M:224:ARG:HA	1:M:227:ARG:HD2	1.92	0.52
1:N:122:LEU:HD23	1:N:125:ASN:ND2	2.19	0.52
1:N:155:ILE:HG12	1:N:158:ARG:NH2	2.24	0.52
1:O:104:VAL:HA	1:O:140:ILE:O	2.10	0.52
1:O:163:GLY:O	1:O:165:LYS:HG3	2.10	0.52
1:B:640:GLN:NE2	1:B:643:ILE:CG2	2.73	0.52
1:D:345:GLU:OE2	1:D:418:ASP:OD2	2.27	0.52
1:E:163:GLY:O	1:E:165:LYS:HG3	2.10	0.52
1:G:109:ASN:ND2	1:G:160:ASP:O	2.43	0.52
1:J:223:GLU:O	1:J:227:ARG:HG3	2.10	0.52
1:K:109:ASN:ND2	1:K:160:ASP:O	2.43	0.52
1:K:345:GLU:OE2	1:K:418:ASP:OD2	2.27	0.52
1:K:640:GLN:NE2	1:K:643:ILE:CG2	2.73	0.52
1:N:640:GLN:NE2	1:N:643:ILE:CG2	2.73	0.52
1:D:640:GLN:NE2	1:D:643:ILE:CG2	2.73	0.52
1:F:223:GLU:O	1:F:227:ARG:HG3	2.10	0.52
1:F:640:GLN:NE2	1:F:643:ILE:CG2	2.73	0.52
1:G:122:LEU:HD23	1:G:125:ASN:ND2	2.19	0.52
1:I:174:ASN:HB2	1:I:233:ASP:O	2.09	0.52
1:K:163:GLY:O	1:K:165:LYS:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:224:ARG:HA	1:L:227:ARG:HD2	1.92	0.52
1:O:221:VAL:HG22	1:O:224:ARG:HH21	1.75	0.52
1:C:345:GLU:OE2	1:C:418:ASP:OD2	2.27	0.52
1:D:109:ASN:ND2	1:D:160:ASP:O	2.43	0.52
1:D:140:ILE:HD13	1:D:156:ILE:CG2	2.40	0.52
1:E:104:VAL:HA	1:E:140:ILE:O	2.10	0.52
1:E:640:GLN:NE2	1:E:643:ILE:CG2	2.73	0.52
1:F:104:VAL:HA	1:F:140:ILE:O	2.10	0.52
1:J:140:ILE:HD13	1:J:156:ILE:CG2	2.40	0.52
1:K:435:LEU:HD21	1:L:626:LEU:HD23	1.91	0.52
1:L:109:ASN:ND2	1:L:160:ASP:O	2.43	0.52
1:L:163:GLY:O	1:L:165:LYS:HG3	2.10	0.52
1:M:435:LEU:HD21	1:N:626:LEU:HD23	1.91	0.52
1:M:640:GLN:NE2	1:M:643:ILE:CG2	2.73	0.52
1:O:109:ASN:ND2	1:O:160:ASP:O	2.43	0.52
1:B:140:ILE:HD13	1:B:156:ILE:CG2	2.40	0.52
1:D:163:GLY:O	1:D:165:LYS:HG3	2.10	0.52
1:E:108:LYS:HA	1:E:138:ASN:HD21	1.74	0.52
1:F:109:ASN:ND2	1:F:160:ASP:O	2.43	0.52
1:F:221:VAL:HG22	1:F:224:ARG:HH21	1.75	0.52
1:G:163:GLY:O	1:G:165:LYS:HG3	2.10	0.52
1:H:640:GLN:NE2	1:H:643:ILE:CG2	2.73	0.52
1:J:640:GLN:NE2	1:J:643:ILE:CG2	2.73	0.52
1:L:140:ILE:HD13	1:L:156:ILE:CG2	2.40	0.52
1:L:223:GLU:O	1:L:227:ARG:HG3	2.10	0.52
1:L:345:GLU:OE2	1:L:418:ASP:OD2	2.27	0.52
1:O:155:ILE:HG12	1:O:158:ARG:NH2	2.24	0.52
1:O:224:ARG:HA	1:O:227:ARG:HD2	1.92	0.52
1:B:221:VAL:HG22	1:B:224:ARG:HH21	1.75	0.51
1:E:122:LEU:HD23	1:E:125:ASN:ND2	2.19	0.51
1:E:224:ARG:HA	1:E:227:ARG:HD2	1.92	0.51
1:H:435:LEU:HD21	1:I:626:LEU:HD23	1.91	0.51
1:K:224:ARG:HA	1:K:227:ARG:HD2	1.92	0.51
1:M:104:VAL:HA	1:M:140:ILE:O	2.10	0.51
1:B:155:ILE:HG12	1:B:158:ARG:NH2	2.24	0.51
1:D:224:ARG:HA	1:D:227:ARG:HD2	1.92	0.51
1:E:174:ASN:HB2	1:E:233:ASP:O	2.09	0.51
1:E:221:VAL:HG22	1:E:224:ARG:HH21	1.75	0.51
1:E:223:GLU:O	1:E:227:ARG:HG3	2.10	0.51
1:J:224:ARG:HA	1:J:227:ARG:HD2	1.92	0.51
1:M:108:LYS:HA	1:M:138:ASN:HD21	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:108:LYS:HA	1:N:138:ASN:HD21	1.75	0.51
1:N:345:GLU:OE2	1:N:418:ASP:OD2	2.27	0.51
1:B:108:LYS:HA	1:B:138:ASN:HD21	1.75	0.51
1:B:345:GLU:OE2	1:B:418:ASP:OD2	2.27	0.51
1:C:163:GLY:O	1:C:165:LYS:HG3	2.10	0.51
1:C:640:GLN:NE2	1:C:643:ILE:CG2	2.73	0.51
1:G:104:VAL:HA	1:G:140:ILE:O	2.10	0.51
1:G:140:ILE:HD13	1:G:156:ILE:CG2	2.40	0.51
1:I:163:GLY:O	1:I:165:LYS:HG3	2.10	0.51
1:I:520:LYS:HZ1	1:J:479:GLU:CD	2.07	0.51
1:L:640:GLN:NE2	1:L:643:ILE:CG2	2.73	0.51
1:M:109:ASN:ND2	1:M:160:ASP:O	2.43	0.51
1:M:609:PHE:CE2	1:N:639:ILE:HD11	2.42	0.51
1:N:109:ASN:ND2	1:N:160:ASP:O	2.43	0.51
1:O:108:LYS:HA	1:O:138:ASN:HD21	1.75	0.51
1:O:140:ILE:HD13	1:O:156:ILE:CG2	2.40	0.51
1:A:108:LYS:HA	1:A:138:ASN:HD21	1.75	0.51
1:E:109:ASN:ND2	1:E:160:ASP:O	2.43	0.51
1:I:140:ILE:HD13	1:I:156:ILE:CG2	2.40	0.51
1:K:223:GLU:O	1:K:227:ARG:HG3	2.10	0.51
1:M:345:GLU:OE2	1:M:418:ASP:OD2	2.27	0.51
1:O:345:GLU:OE2	1:O:418:ASP:OD2	2.27	0.51
1:A:224:ARG:HA	1:A:227:ARG:HD2	1.92	0.51
1:B:435:LEU:HD21	1:C:626:LEU:HD23	1.91	0.51
1:C:224:ARG:HA	1:C:227:ARG:HD2	1.92	0.51
1:F:108:LYS:HA	1:F:138:ASN:HD21	1.75	0.51
1:F:224:ARG:HA	1:F:227:ARG:HD2	1.92	0.51
1:I:105:VAL:O	1:I:140:ILE:CB	2.49	0.51
1:I:224:ARG:HA	1:I:227:ARG:HD2	1.92	0.51
1:J:121:GLN:O	1:J:125:ASN:N	2.33	0.51
1:L:221:VAL:HG22	1:L:224:ARG:HH21	1.75	0.51
1:N:163:GLY:O	1:N:165:LYS:HG3	2.10	0.51
1:O:640:GLN:NE2	1:O:643:ILE:CG2	2.73	0.51
1:A:221:VAL:HG22	1:A:224:ARG:HH21	1.75	0.51
1:A:345:GLU:OE2	1:A:418:ASP:OD2	2.27	0.51
1:E:140:ILE:HD13	1:E:156:ILE:CG2	2.40	0.51
1:L:108:LYS:HA	1:L:138:ASN:HD21	1.74	0.51
1:L:435:LEU:HD21	1:M:626:LEU:HD23	1.91	0.51
1:M:163:GLY:O	1:M:165:LYS:HG3	2.10	0.51
1:N:333:ASP:OD1	1:N:334:GLY:N	2.44	0.51
1:C:140:ILE:HD13	1:C:156:ILE:CG2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:435:LEU:HD21	1:F:626:LEU:HD23	1.91	0.51
1:J:104:VAL:HA	1:J:140:ILE:O	2.10	0.51
1:K:104:VAL:HA	1:K:140:ILE:O	2.10	0.51
1:L:104:VAL:HA	1:L:140:ILE:O	2.10	0.51
1:N:221:VAL:HG22	1:N:224:ARG:HH21	1.75	0.51
1:D:221:VAL:HG22	1:D:224:ARG:HH21	1.75	0.51
1:D:435:LEU:HD21	1:E:626:LEU:HD23	1.91	0.51
1:A:207:ASP:OD1	1:A:209:ARG:N	2.33	0.51
1:I:221:VAL:HG22	1:I:224:ARG:HH21	1.75	0.51
1:C:108:LYS:HA	1:C:138:ASN:HD21	1.75	0.51
1:H:221:VAL:HG22	1:H:224:ARG:HH21	1.75	0.51
1:I:235:GLU:H	1:I:235:GLU:CD	2.11	0.51
1:O:333:ASP:OD1	1:O:334:GLY:N	2.44	0.51
1:F:140:ILE:HD13	1:F:156:ILE:CG2	2.40	0.50
1:H:224:ARG:HA	1:H:227:ARG:HD2	1.92	0.50
1:I:108:LYS:HA	1:I:138:ASN:HD21	1.75	0.50
1:L:333:ASP:OD1	1:L:334:GLY:N	2.44	0.50
1:E:333:ASP:OD1	1:E:334:GLY:N	2.44	0.50
1:F:177:ALA:HB1	1:F:206:ALA:HB1	1.94	0.50
1:F:435:LEU:HD21	1:G:626:LEU:HD23	1.91	0.50
1:H:333:ASP:OD1	1:H:334:GLY:N	2.44	0.50
1:J:105:VAL:O	1:J:140:ILE:CB	2.49	0.50
1:J:221:VAL:HG22	1:J:224:ARG:HH21	1.75	0.50
1:M:333:ASP:OD1	1:M:334:GLY:N	2.44	0.50
1:O:122:LEU:HD23	1:O:125:ASN:ND2	2.19	0.50
1:C:435:LEU:HD21	1:D:626:LEU:HD23	1.91	0.50
1:F:321:LEU:CD1	1:F:441:THR:OG1	2.60	0.50
1:G:177:ALA:HB1	1:G:206:ALA:HB1	1.94	0.50
1:J:122:LEU:HD23	1:J:125:ASN:ND2	2.19	0.50
1:J:333:ASP:OD1	1:J:334:GLY:N	2.44	0.50
1:K:333:ASP:OD1	1:K:334:GLY:N	2.44	0.50
1:L:177:ALA:HB1	1:L:206:ALA:HB1	1.94	0.50
1:M:177:ALA:HB1	1:M:206:ALA:HB1	1.94	0.50
1:M:221:VAL:HG22	1:M:224:ARG:HH21	1.75	0.50
1:O:177:ALA:HB1	1:O:206:ALA:HB1	1.94	0.50
1:A:177:ALA:HB1	1:A:206:ALA:HB1	1.94	0.50
1:B:224:ARG:HA	1:B:227:ARG:HD2	1.92	0.50
1:E:321:LEU:CD1	1:E:441:THR:OG1	2.60	0.50
1:E:476:ASP:OD1	1:E:477:ARG:N	2.44	0.50
1:F:333:ASP:OD1	1:F:334:GLY:N	2.44	0.50
1:G:224:ARG:HA	1:G:227:ARG:HD2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:321:LEU:CD1	1:G:441:THR:OG1	2.60	0.50
1:H:104:VAL:HA	1:H:140:ILE:O	2.10	0.50
1:H:180:MET:SD	1:H:183:ILE:HD11	2.51	0.50
1:H:207:ASP:OD1	1:H:209:ARG:N	2.33	0.50
1:I:180:MET:SD	1:I:183:ILE:HD11	2.51	0.50
1:K:177:ALA:HB1	1:K:206:ALA:HB1	1.94	0.50
1:N:177:ALA:HB1	1:N:206:ALA:HB1	1.94	0.50
1:N:476:ASP:OD1	1:N:477:ARG:N	2.44	0.50
1:B:333:ASP:OD1	1:B:334:GLY:N	2.44	0.50
1:C:122:LEU:HD23	1:C:125:ASN:ND2	2.19	0.50
1:C:333:ASP:OD1	1:C:334:GLY:N	2.44	0.50
1:D:455:GLU:HG2	1:D:479:GLU:HG2	1.94	0.50
1:F:180:MET:SD	1:F:183:ILE:HD11	2.51	0.50
1:G:180:MET:SD	1:G:183:ILE:HD11	2.51	0.50
1:G:435:LEU:HD21	1:H:626:LEU:HD23	1.91	0.50
1:G:455:GLU:HG2	1:G:479:GLU:HG2	1.94	0.50
1:G:552:VAL:HG23	1:G:553:PRO:C	2.32	0.50
1:H:177:ALA:HB1	1:H:206:ALA:HB1	1.94	0.50
1:H:552:VAL:HG23	1:H:553:PRO:C	2.32	0.50
1:I:104:VAL:HA	1:I:140:ILE:O	2.10	0.50
1:J:177:ALA:HB1	1:J:206:ALA:HB1	1.94	0.50
1:J:180:MET:SD	1:J:183:ILE:HD11	2.51	0.50
1:K:221:VAL:HG22	1:K:224:ARG:HH21	1.75	0.50
1:L:552:VAL:HG23	1:L:553:PRO:C	2.32	0.50
1:M:476:ASP:OD1	1:M:477:ARG:N	2.44	0.50
1:N:180:MET:SD	1:N:183:ILE:HD11	2.51	0.50
1:C:205:VAL:HG12	1:C:206:ALA:N	2.27	0.50
1:C:455:GLU:HG2	1:C:479:GLU:HG2	1.94	0.50
1:D:177:ALA:HB1	1:D:206:ALA:HB1	1.94	0.50
1:D:180:MET:SD	1:D:183:ILE:HD11	2.51	0.50
1:G:221:VAL:HG22	1:G:224:ARG:HH21	1.75	0.50
1:G:333:ASP:OD1	1:G:334:GLY:N	2.44	0.50
1:K:180:MET:SD	1:K:183:ILE:HD11	2.51	0.50
1:L:476:ASP:OD1	1:L:477:ARG:N	2.44	0.50
1:M:552:VAL:HG23	1:M:553:PRO:C	2.32	0.50
1:O:180:MET:SD	1:O:183:ILE:HD11	2.51	0.50
1:A:180:MET:SD	1:A:183:ILE:HD11	2.51	0.50
1:A:205:VAL:HG12	1:A:206:ALA:N	2.27	0.50
1:A:455:GLU:HG2	1:A:479:GLU:HG2	1.94	0.50
1:B:205:VAL:HG12	1:B:206:ALA:N	2.27	0.50
1:D:205:VAL:HG12	1:D:206:ALA:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:321:LEU:CD1	1:D:441:THR:OG1	2.60	0.50
1:E:180:MET:SD	1:E:183:ILE:HD11	2.51	0.50
1:F:102:THR:OG1	1:F:142:ILE:O	2.25	0.50
1:F:455:GLU:HG2	1:F:479:GLU:HG2	1.94	0.50
1:H:321:LEU:CD1	1:H:441:THR:OG1	2.60	0.50
1:H:455:GLU:HG2	1:H:479:GLU:HG2	1.94	0.50
1:I:177:ALA:HB1	1:I:206:ALA:HB1	1.94	0.50
1:K:140:ILE:HD13	1:K:156:ILE:CG2	2.40	0.50
1:K:552:VAL:HG23	1:K:553:PRO:C	2.32	0.50
1:M:205:VAL:HG12	1:M:206:ALA:N	2.27	0.50
1:A:333:ASP:OD1	1:A:334:GLY:N	2.44	0.50
1:B:218:ASP:N	1:B:221:VAL:HB	2.27	0.50
1:C:180:MET:SD	1:C:183:ILE:HD11	2.51	0.50
1:C:218:ASP:N	1:C:221:VAL:HB	2.27	0.50
1:C:476:ASP:OD1	1:C:477:ARG:N	2.44	0.50
1:E:177:ALA:HB1	1:E:206:ALA:HB1	1.94	0.50
1:E:455:GLU:HG2	1:E:479:GLU:HG2	1.94	0.50
1:F:552:VAL:HG23	1:F:553:PRO:C	2.32	0.50
1:H:140:ILE:HD13	1:H:156:ILE:CG2	2.40	0.50
1:H:476:ASP:OD1	1:H:477:ARG:N	2.44	0.50
1:K:105:VAL:O	1:K:140:ILE:CB	2.49	0.50
1:K:205:VAL:HG12	1:K:206:ALA:N	2.27	0.50
1:M:180:MET:SD	1:M:183:ILE:HD11	2.51	0.50
1:N:552:VAL:HG23	1:N:553:PRO:C	2.32	0.50
1:O:455:GLU:HG2	1:O:479:GLU:HG2	1.94	0.50
1:B:177:ALA:HB1	1:B:206:ALA:HB1	1.94	0.50
1:B:180:MET:SD	1:B:183:ILE:HD11	2.51	0.50
1:B:455:GLU:HG2	1:B:479:GLU:HG2	1.94	0.50
1:C:177:ALA:HB1	1:C:206:ALA:HB1	1.94	0.50
1:I:476:ASP:OD1	1:I:477:ARG:N	2.44	0.50
1:J:205:VAL:HG12	1:J:206:ALA:N	2.27	0.50
1:J:552:VAL:HG23	1:J:553:PRO:C	2.32	0.50
1:K:435:LEU:HD11	1:L:607:GLN:HE22	1.77	0.50
1:L:180:MET:SD	1:L:183:ILE:HD11	2.51	0.50
1:N:140:ILE:HD13	1:N:156:ILE:CG2	2.40	0.50
1:O:476:ASP:OD1	1:O:477:ARG:N	2.44	0.50
1:O:552:VAL:HG23	1:O:553:PRO:C	2.32	0.50
1:D:476:ASP:OD1	1:D:477:ARG:N	2.44	0.49
1:E:205:VAL:HG12	1:E:206:ALA:N	2.27	0.49
1:F:442:VAL:HG12	1:F:448:ALA:HB2	1.94	0.49
1:G:218:ASP:N	1:G:221:VAL:HB	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:442:VAL:HG12	1:G:448:ALA:HB2	1.94	0.49
1:H:235:GLU:H	1:H:235:GLU:CD	2.11	0.49
1:I:552:VAL:HG23	1:I:553:PRO:C	2.32	0.49
1:J:435:LEU:HD11	1:K:607:GLN:HE22	1.77	0.49
1:L:435:LEU:HD11	1:M:607:GLN:HE22	1.77	0.49
1:O:321:LEU:CD1	1:O:441:THR:OG1	2.60	0.49
1:B:476:ASP:OD1	1:B:477:ARG:N	2.44	0.49
1:C:321:LEU:CD1	1:C:441:THR:OG1	2.60	0.49
1:D:333:ASP:OD1	1:D:334:GLY:N	2.44	0.49
1:E:552:VAL:HG23	1:E:553:PRO:C	2.32	0.49
1:H:218:ASP:N	1:H:221:VAL:HB	2.27	0.49
1:I:321:LEU:CD1	1:I:441:THR:OG1	2.60	0.49
1:J:476:ASP:OD1	1:J:477:ARG:N	2.44	0.49
1:O:442:VAL:HG12	1:O:448:ALA:HB2	1.94	0.49
1:A:218:ASP:N	1:A:221:VAL:HB	2.27	0.49
1:D:503:GLU:OE2	1:D:505:SER:OG	2.31	0.49
1:E:218:ASP:N	1:E:221:VAL:HB	2.27	0.49
1:E:442:VAL:HG12	1:E:448:ALA:HB2	1.94	0.49
1:E:503:GLU:OE2	1:E:505:SER:OG	2.31	0.49
1:H:205:VAL:HG12	1:H:206:ALA:N	2.27	0.49
1:I:205:VAL:HG12	1:I:206:ALA:N	2.27	0.49
1:I:218:ASP:N	1:I:221:VAL:HB	2.27	0.49
1:I:435:LEU:HD11	1:J:607:GLN:HE22	1.77	0.49
1:I:455:GLU:HG2	1:I:479:GLU:HG2	1.94	0.49
1:J:455:GLU:HG2	1:J:479:GLU:HG2	1.94	0.49
1:K:476:ASP:OD1	1:K:477:ARG:N	2.44	0.49
1:N:205:VAL:HG12	1:N:206:ALA:N	2.27	0.49
1:N:321:LEU:CD1	1:N:441:THR:OG1	2.60	0.49
1:A:442:VAL:HG12	1:A:448:ALA:HB2	1.94	0.49
1:D:218:ASP:N	1:D:221:VAL:HB	2.27	0.49
1:E:105:VAL:O	1:E:140:ILE:CB	2.49	0.49
1:F:205:VAL:HG12	1:F:206:ALA:N	2.27	0.49
1:F:218:ASP:N	1:F:221:VAL:HB	2.27	0.49
1:I:333:ASP:OD1	1:I:334:GLY:N	2.44	0.49
1:J:218:ASP:N	1:J:221:VAL:HB	2.27	0.49
1:L:218:ASP:N	1:L:221:VAL:HB	2.27	0.49
1:M:442:VAL:HG12	1:M:448:ALA:HB2	1.94	0.49
1:M:455:GLU:HG2	1:M:479:GLU:HG2	1.94	0.49
1:N:218:ASP:N	1:N:221:VAL:HB	2.27	0.49
1:N:442:VAL:HG12	1:N:448:ALA:HB2	1.94	0.49
1:A:476:ASP:OD1	1:A:477:ARG:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:476:ASP:OD1	1:F:477:ARG:N	2.44	0.49
1:F:503:GLU:OE2	1:F:505:SER:OG	2.31	0.49
1:G:177:ALA:N	1:G:211:ASN:OD1	2.41	0.49
1:K:122:LEU:HD23	1:K:125:ASN:ND2	2.19	0.49
1:L:177:ALA:N	1:L:211:ASN:OD1	2.41	0.49
1:L:205:VAL:HG12	1:L:206:ALA:N	2.27	0.49
1:L:442:VAL:HG12	1:L:448:ALA:HB2	1.94	0.49
1:O:205:VAL:HG12	1:O:206:ALA:N	2.27	0.49
1:B:552:VAL:HG23	1:B:553:PRO:C	2.32	0.49
1:D:552:VAL:HG23	1:D:553:PRO:C	2.32	0.49
1:H:442:VAL:HG12	1:H:448:ALA:HB2	1.94	0.49
1:H:520:LYS:HZ1	1:I:479:GLU:CD	2.07	0.49
1:J:321:LEU:CD1	1:J:441:THR:OG1	2.60	0.49
1:K:455:GLU:HG2	1:K:479:GLU:HG2	1.94	0.49
1:L:321:LEU:CD1	1:L:441:THR:OG1	2.60	0.49
1:L:455:GLU:HG2	1:L:479:GLU:HG2	1.94	0.49
1:M:177:ALA:N	1:M:211:ASN:OD1	2.41	0.49
1:M:321:LEU:CD1	1:M:441:THR:OG1	2.60	0.49
1:O:218:ASP:N	1:O:221:VAL:HB	2.27	0.49
1:B:321:LEU:CD1	1:B:441:THR:OG1	2.60	0.49
1:B:586:ILE:HG21	1:B:592:ALA:HB2	1.95	0.49
1:H:122:LEU:HD23	1:H:125:ASN:ND2	2.19	0.49
1:H:435:LEU:HD11	1:I:607:GLN:HE22	1.77	0.49
1:M:435:LEU:HD11	1:N:607:GLN:HE22	1.77	0.49
1:N:455:GLU:HG2	1:N:479:GLU:HG2	1.94	0.49
1:B:442:VAL:HG12	1:B:448:ALA:HB2	1.94	0.49
1:D:442:VAL:HG12	1:D:448:ALA:HB2	1.94	0.49
1:G:503:GLU:OE2	1:G:505:SER:OG	2.31	0.49
1:K:177:ALA:O	1:K:180:MET:N	2.46	0.49
1:K:321:LEU:CD1	1:K:441:THR:OG1	2.60	0.49
1:C:586:ILE:HG21	1:C:592:ALA:HB2	1.95	0.49
1:I:177:ALA:O	1:I:180:MET:N	2.46	0.49
1:K:442:VAL:HG12	1:K:448:ALA:HB2	1.94	0.49
1:L:105:VAL:O	1:L:140:ILE:CB	2.49	0.49
1:M:177:ALA:O	1:M:180:MET:N	2.46	0.49
1:A:520:LYS:NZ	1:B:455:GLU:OE2	2.46	0.49
1:A:586:ILE:HG21	1:A:592:ALA:HB2	1.95	0.49
1:G:205:VAL:HG12	1:G:206:ALA:N	2.27	0.49
1:G:476:ASP:OD1	1:G:477:ARG:N	2.44	0.49
1:K:374:GLN:HG3	1:L:392:THR:O	2.13	0.49
1:L:177:ALA:O	1:L:180:MET:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:177:ALA:O	1:O:180:MET:N	2.46	0.49
1:O:503:GLU:OE2	1:O:505:SER:OG	2.31	0.49
1:A:552:VAL:HG23	1:A:553:PRO:C	2.32	0.48
1:C:552:VAL:HG23	1:C:553:PRO:C	2.32	0.48
1:F:520:LYS:NZ	1:G:455:GLU:OE2	2.46	0.48
1:G:520:LYS:NZ	1:H:455:GLU:OE2	2.46	0.48
1:I:442:VAL:HG12	1:I:448:ALA:HB2	1.94	0.48
1:K:177:ALA:N	1:K:211:ASN:OD1	2.41	0.48
1:K:218:ASP:N	1:K:221:VAL:HB	2.27	0.48
1:L:374:GLN:HG3	1:M:392:THR:O	2.13	0.48
1:M:218:ASP:N	1:M:221:VAL:HB	2.27	0.48
1:M:374:GLN:HG3	1:N:392:THR:O	2.13	0.48
1:B:207:ASP:OD1	1:B:209:ARG:N	2.33	0.48
1:C:113:ARG:HD2	1:C:134:TYR:HD2	1.78	0.48
1:D:435:LEU:HD11	1:E:607:GLN:HE22	1.77	0.48
1:F:374:GLN:O	1:F:391:THR:HG22	2.14	0.48
1:G:374:GLN:HG3	1:H:392:THR:O	2.13	0.48
1:H:374:GLN:HG3	1:I:392:THR:O	2.13	0.48
1:M:113:ARG:HD2	1:M:134:TYR:HD2	1.79	0.48
1:N:177:ALA:O	1:N:180:MET:N	2.46	0.48
1:N:177:ALA:N	1:N:211:ASN:OD1	2.41	0.48
1:N:374:GLN:HG3	1:O:392:THR:O	2.13	0.48
1:N:374:GLN:O	1:N:391:THR:HG22	2.14	0.48
1:A:455:GLU:OE2	1:O:520:LYS:NZ	2.46	0.48
1:B:520:LYS:NZ	1:C:455:GLU:OE2	2.46	0.48
1:F:113:ARG:HD2	1:F:134:TYR:HD2	1.79	0.48
1:G:113:ARG:HD2	1:G:134:TYR:HD2	1.78	0.48
1:H:113:ARG:HD2	1:H:134:TYR:HD2	1.78	0.48
1:H:503:GLU:OE2	1:H:505:SER:OG	2.31	0.48
1:J:442:VAL:HG12	1:J:448:ALA:HB2	1.94	0.48
1:K:520:LYS:HZ1	1:L:479:GLU:CD	2.09	0.48
1:L:113:ARG:HD2	1:L:134:TYR:HD2	1.78	0.48
1:L:503:GLU:OE2	1:L:505:SER:OG	2.31	0.48
1:A:321:LEU:CD1	1:A:441:THR:OG1	2.60	0.48
1:C:374:GLN:O	1:C:391:THR:HG22	2.14	0.48
1:G:235:GLU:H	1:G:235:GLU:CD	2.11	0.48
1:H:177:ALA:O	1:H:180:MET:N	2.46	0.48
1:J:374:GLN:HG3	1:K:392:THR:O	2.13	0.48
1:A:503:GLU:OE2	1:A:505:SER:OG	2.31	0.48
1:B:374:GLN:O	1:B:391:THR:HG22	2.14	0.48
1:D:520:LYS:NZ	1:E:455:GLU:OE2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:586:ILE:HG21	1:D:592:ALA:HB2	1.95	0.48
1:E:520:LYS:NZ	1:F:455:GLU:OE2	2.46	0.48
1:H:520:LYS:NZ	1:I:455:GLU:OE2	2.46	0.48
1:J:177:ALA:O	1:J:180:MET:N	2.46	0.48
1:A:392:THR:O	1:O:374:GLN:HG3	2.13	0.48
1:A:435:LEU:HD11	1:B:607:GLN:HE22	1.77	0.48
1:C:180:MET:HE2	1:C:213:ILE:HD11	1.95	0.48
1:C:435:LEU:HD11	1:D:607:GLN:HE22	1.77	0.48
1:G:177:ALA:O	1:G:180:MET:N	2.46	0.48
1:I:374:GLN:O	1:I:391:THR:HG22	2.14	0.48
1:J:113:ARG:HD2	1:J:134:TYR:HD2	1.78	0.48
1:K:113:ARG:HD2	1:K:134:TYR:HD2	1.78	0.48
1:K:374:GLN:O	1:K:391:THR:HG22	2.14	0.48
1:O:113:ARG:HD2	1:O:134:TYR:HD2	1.79	0.48
1:O:180:MET:HE2	1:O:213:ILE:HD11	1.94	0.48
1:O:374:GLN:O	1:O:391:THR:HG22	2.14	0.48
1:O:586:ILE:HG21	1:O:592:ALA:HB2	1.95	0.48
1:A:113:ARG:HD2	1:A:134:TYR:HD2	1.79	0.48
1:A:177:ALA:O	1:A:180:MET:N	2.46	0.48
1:C:442:VAL:HG12	1:C:448:ALA:HB2	1.94	0.48
1:E:113:ARG:HD2	1:E:134:TYR:HD2	1.79	0.48
1:E:255:LEU:HA	1:E:255:LEU:HD23	1.73	0.48
1:E:374:GLN:O	1:E:391:THR:HG22	2.14	0.48
1:G:119:LEU:HD12	1:G:134:TYR:OH	2.14	0.48
1:H:119:LEU:HD12	1:H:134:TYR:OH	2.14	0.48
1:I:108:LYS:HA	1:I:138:ASN:ND2	2.29	0.48
1:I:119:LEU:HD12	1:I:134:TYR:OH	2.14	0.48
1:I:374:GLN:HG3	1:J:392:THR:O	2.13	0.48
1:K:247:LEU:HD11	1:K:294:LEU:HD23	1.96	0.48
1:N:435:LEU:HD11	1:O:607:GLN:HE22	1.77	0.48
1:A:108:LYS:HA	1:A:138:ASN:ND2	2.29	0.48
1:A:225:LEU:HD23	1:A:225:LEU:HA	1.74	0.48
1:A:247:LEU:HD11	1:A:294:LEU:HD23	1.96	0.48
1:B:177:ALA:O	1:B:180:MET:N	2.46	0.48
1:C:520:LYS:NZ	1:D:455:GLU:OE2	2.46	0.48
1:F:235:GLU:H	1:F:235:GLU:CD	2.11	0.48
1:J:108:LYS:HA	1:J:138:ASN:ND2	2.29	0.48
1:L:374:GLN:O	1:L:391:THR:HG22	2.14	0.48
1:N:108:LYS:HA	1:N:138:ASN:ND2	2.29	0.48
1:A:374:GLN:HG3	1:B:392:THR:O	2.13	0.48
1:B:435:LEU:HD11	1:C:607:GLN:HE22	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:247:LEU:HD11	1:C:294:LEU:HD23	1.96	0.48
1:E:435:LEU:HD11	1:F:607:GLN:HE22	1.77	0.48
1:H:108:LYS:HA	1:H:138:ASN:ND2	2.29	0.48
1:H:374:GLN:O	1:H:391:THR:HG22	2.14	0.48
1:I:247:LEU:HD11	1:I:294:LEU:HD23	1.96	0.48
1:I:335:ILE:HG22	1:K:617:LEU:HD13	1.96	0.48
1:J:335:ILE:HG22	1:L:617:LEU:HD13	1.96	0.48
1:M:586:ILE:HG21	1:M:592:ALA:HB2	1.95	0.48
1:O:108:LYS:HA	1:O:138:ASN:ND2	2.29	0.48
1:A:261:GLY:HA3	1:B:284:MET:HG2	1.96	0.48
1:B:108:LYS:HA	1:B:138:ASN:ND2	2.29	0.48
1:D:113:ARG:HD2	1:D:134:TYR:HD2	1.79	0.48
1:D:226:LYS:HA	1:D:229:ILE:HB	1.96	0.48
1:D:374:GLN:HG3	1:E:392:THR:O	2.13	0.48
1:E:235:GLU:H	1:E:235:GLU:CD	2.11	0.48
1:F:119:LEU:HD12	1:F:134:TYR:OH	2.14	0.48
1:F:283:VAL:HA	1:F:297:THR:O	2.14	0.48
1:F:435:LEU:HD11	1:G:607:GLN:HE22	1.77	0.48
1:G:108:LYS:HA	1:G:138:ASN:ND2	2.29	0.48
1:G:261:GLY:HA3	1:H:284:MET:HG2	1.96	0.48
1:H:261:GLY:HA3	1:I:284:MET:HG2	1.96	0.48
1:K:335:ILE:HG22	1:M:617:LEU:HD13	1.96	0.48
1:L:122:LEU:HD23	1:L:125:ASN:ND2	2.19	0.48
1:L:335:ILE:HG22	1:N:617:LEU:HD13	1.96	0.48
1:L:515:ASP:OD1	1:L:516:VAL:N	2.46	0.48
1:L:586:ILE:HG21	1:L:592:ALA:HB2	1.95	0.48
1:M:180:MET:HE2	1:M:213:ILE:HD11	1.95	0.48
1:A:284:MET:HG2	1:O:261:GLY:HA3	1.96	0.47
1:B:374:GLN:HG3	1:C:392:THR:O	2.13	0.47
1:C:177:ALA:O	1:C:180:MET:N	2.46	0.47
1:D:177:ALA:O	1:D:180:MET:N	2.46	0.47
1:D:515:ASP:OD1	1:D:516:VAL:N	2.46	0.47
1:G:283:VAL:HA	1:G:297:THR:O	2.14	0.47
1:G:335:ILE:HG22	1:I:617:LEU:HD13	1.96	0.47
1:G:515:ASP:OD1	1:G:516:VAL:N	2.46	0.47
1:H:335:ILE:HG22	1:J:617:LEU:HD13	1.96	0.47
1:K:586:ILE:HG21	1:K:592:ALA:HB2	1.95	0.47
1:L:119:LEU:HD12	1:L:134:TYR:OH	2.14	0.47
1:M:119:LEU:HD12	1:M:134:TYR:OH	2.14	0.47
1:M:235:GLU:H	1:M:235:GLU:CD	2.11	0.47
1:N:235:GLU:H	1:N:235:GLU:CD	2.11	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:247:LEU:HD11	1:N:294:LEU:HD23	1.96	0.47
1:A:607:GLN:HE22	1:O:435:LEU:HD11	1.77	0.47
1:B:226:LYS:HA	1:B:229:ILE:HB	1.96	0.47
1:B:261:GLY:HA3	1:C:284:MET:HG2	1.96	0.47
1:F:108:LYS:HA	1:F:138:ASN:ND2	2.29	0.47
1:G:247:LEU:HD11	1:G:294:LEU:HD23	1.96	0.47
1:G:435:LEU:HD11	1:H:607:GLN:HE22	1.77	0.47
1:I:239:LYS:HE3	1:I:300:GLN:HB2	1.97	0.47
1:I:261:GLY:HA3	1:J:284:MET:HG2	1.96	0.47
1:J:119:LEU:HD12	1:J:134:TYR:OH	2.14	0.47
1:J:177:ALA:N	1:J:211:ASN:OD1	2.41	0.47
1:J:586:ILE:HG21	1:J:592:ALA:HB2	1.95	0.47
1:K:108:LYS:HA	1:K:138:ASN:ND2	2.29	0.47
1:M:167:ILE:CA	1:M:215:ILE:O	2.42	0.47
1:M:207:ASP:OD1	1:M:209:ARG:N	2.33	0.47
1:M:520:LYS:NZ	1:N:455:GLU:OE2	2.46	0.47
1:N:113:ARG:HD2	1:N:134:TYR:HD2	1.78	0.47
1:N:283:VAL:HA	1:N:297:THR:O	2.14	0.47
1:O:328:GLU:HG2	1:O:577:LEU:HG	1.96	0.47
1:A:328:GLU:HG2	1:A:577:LEU:HG	1.96	0.47
1:C:374:GLN:HG3	1:D:392:THR:O	2.13	0.47
1:D:235:GLU:H	1:D:235:GLU:CD	2.11	0.47
1:E:177:ALA:O	1:E:180:MET:N	2.46	0.47
1:E:283:VAL:HA	1:E:297:THR:O	2.14	0.47
1:E:374:GLN:HG3	1:F:392:THR:O	2.13	0.47
1:F:122:LEU:HD23	1:F:125:ASN:ND2	2.19	0.47
1:F:261:GLY:HA3	1:G:284:MET:HG2	1.96	0.47
1:G:374:GLN:O	1:G:391:THR:HG22	2.14	0.47
1:H:283:VAL:HA	1:H:297:THR:O	2.14	0.47
1:I:520:LYS:NZ	1:J:455:GLU:OE2	2.46	0.47
1:I:586:ILE:HG21	1:I:592:ALA:HB2	1.95	0.47
1:J:167:ILE:CA	1:J:215:ILE:O	2.42	0.47
1:J:239:LYS:HE3	1:J:300:GLN:HB2	1.97	0.47
1:J:374:GLN:O	1:J:391:THR:HG22	2.14	0.47
1:K:634:ARG:HG3	1:K:635:HIS:O	2.15	0.47
1:L:108:LYS:HA	1:L:138:ASN:ND2	2.29	0.47
1:M:283:VAL:HA	1:M:297:THR:O	2.14	0.47
1:M:374:GLN:O	1:M:391:THR:HG22	2.14	0.47
1:O:235:GLU:H	1:O:235:GLU:CD	2.11	0.47
1:A:226:LYS:HA	1:A:229:ILE:HB	1.96	0.47
1:C:108:LYS:HA	1:C:138:ASN:ND2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:283:VAL:HA	1:C:297:THR:O	2.14	0.47
1:C:335:ILE:HG22	1:E:617:LEU:HD13	1.96	0.47
1:C:515:ASP:OD1	1:C:516:VAL:N	2.46	0.47
1:D:374:GLN:O	1:D:391:THR:HG22	2.14	0.47
1:E:119:LEU:HD12	1:E:134:TYR:OH	2.14	0.47
1:E:247:LEU:HD11	1:E:294:LEU:HD23	1.96	0.47
1:F:226:LYS:HA	1:F:229:ILE:HB	1.96	0.47
1:F:239:LYS:HE3	1:F:300:GLN:HB2	1.97	0.47
1:F:374:GLN:HG3	1:G:392:THR:O	2.14	0.47
1:G:239:LYS:HE3	1:G:300:GLN:HB2	1.97	0.47
1:I:113:ARG:HD2	1:I:134:TYR:HD2	1.78	0.47
1:I:503:GLU:OE2	1:I:505:SER:OG	2.31	0.47
1:M:247:LEU:HD11	1:M:294:LEU:HD23	1.96	0.47
1:A:120:ARG:HG2	1:A:123:ILE:HD12	1.96	0.47
1:B:119:LEU:HD12	1:B:134:TYR:OH	2.14	0.47
1:B:335:ILE:HG22	1:D:617:LEU:HD13	1.96	0.47
1:D:634:ARG:HG3	1:D:635:HIS:O	2.15	0.47
1:E:108:LYS:HA	1:E:138:ASN:ND2	2.29	0.47
1:E:586:ILE:HG21	1:E:592:ALA:HB2	1.95	0.47
1:F:177:ALA:N	1:F:211:ASN:OD1	2.41	0.47
1:G:158:ARG:O	1:G:162:ALA:HB2	2.15	0.47
1:H:158:ARG:O	1:H:162:ALA:HB2	2.15	0.47
1:H:239:LYS:HE3	1:H:300:GLN:HB2	1.97	0.47
1:H:586:ILE:HG21	1:H:592:ALA:HB2	1.95	0.47
1:J:120:ARG:HG2	1:J:123:ILE:HD12	1.96	0.47
1:J:261:GLY:HA3	1:K:284:MET:HG2	1.96	0.47
1:K:119:LEU:HD12	1:K:134:TYR:OH	2.14	0.47
1:L:239:LYS:HE3	1:L:300:GLN:HB2	1.97	0.47
1:M:335:ILE:HG22	1:O:617:LEU:HD13	1.96	0.47
1:N:119:LEU:HD12	1:N:134:TYR:OH	2.14	0.47
1:N:261:GLY:HA3	1:O:284:MET:HG2	1.96	0.47
1:A:122:LEU:HD23	1:A:125:ASN:ND2	2.19	0.47
1:A:235:GLU:H	1:A:235:GLU:CD	2.11	0.47
1:B:113:ARG:HD2	1:B:134:TYR:HD2	1.78	0.47
1:B:120:ARG:HG2	1:B:123:ILE:HD12	1.96	0.47
1:B:235:GLU:H	1:B:235:GLU:CD	2.11	0.47
1:B:503:GLU:OE2	1:B:505:SER:OG	2.31	0.47
1:C:226:LYS:HA	1:C:229:ILE:HB	1.96	0.47
1:D:283:VAL:HA	1:D:297:THR:O	2.14	0.47
1:D:335:ILE:HG22	1:F:617:LEU:HD13	1.96	0.47
1:F:335:ILE:HG22	1:H:617:LEU:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:586:ILE:HG21	1:G:592:ALA:HB2	1.95	0.47
1:I:328:GLU:HG2	1:I:577:LEU:HG	1.96	0.47
1:J:634:ARG:HG3	1:J:635:HIS:O	2.15	0.47
1:K:239:LYS:HE3	1:K:300:GLN:HB2	1.97	0.47
1:L:247:LEU:HD11	1:L:294:LEU:HD23	1.96	0.47
1:L:634:ARG:HG3	1:L:635:HIS:O	2.15	0.47
1:M:108:LYS:HA	1:M:138:ASN:ND2	2.29	0.47
1:M:239:LYS:HE3	1:M:300:GLN:HB2	1.97	0.47
1:N:158:ARG:O	1:N:162:ALA:HB2	2.15	0.47
1:N:226:LYS:HA	1:N:229:ILE:HB	1.96	0.47
1:N:328:GLU:HG2	1:N:577:LEU:HG	1.96	0.47
1:N:586:ILE:HG21	1:N:592:ALA:HB2	1.95	0.47
1:O:158:ARG:O	1:O:162:ALA:HB2	2.15	0.47
1:O:283:VAL:HA	1:O:297:THR:O	2.14	0.47
1:A:105:VAL:O	1:A:140:ILE:CB	2.49	0.47
1:A:119:LEU:HD12	1:A:134:TYR:OH	2.14	0.47
1:A:335:ILE:HG22	1:C:617:LEU:HD13	1.96	0.47
1:A:374:GLN:O	1:A:391:THR:HG22	2.14	0.47
1:B:283:VAL:HA	1:B:297:THR:O	2.14	0.47
1:B:328:GLU:HG2	1:B:577:LEU:HG	1.96	0.47
1:B:617:LEU:HD13	1:O:335:ILE:HG22	1.96	0.47
1:B:634:ARG:HG3	1:B:635:HIS:O	2.15	0.47
1:C:119:LEU:HD12	1:C:134:TYR:OH	2.14	0.47
1:C:120:ARG:HG2	1:C:123:ILE:HD12	1.96	0.47
1:C:235:GLU:H	1:C:235:GLU:CD	2.11	0.47
1:C:261:GLY:HA3	1:D:284:MET:HG2	1.96	0.47
1:E:261:GLY:HA3	1:F:284:MET:HG2	1.96	0.47
1:F:177:ALA:O	1:F:180:MET:N	2.46	0.47
1:F:634:ARG:HG3	1:F:635:HIS:O	2.15	0.47
1:I:120:ARG:HG2	1:I:123:ILE:HD12	1.96	0.47
1:I:283:VAL:HA	1:I:297:THR:O	2.14	0.47
1:J:226:LYS:HA	1:J:229:ILE:HB	1.96	0.47
1:J:511:ASN:HA	1:J:512:GLY:HA2	1.60	0.47
1:K:120:ARG:HG2	1:K:123:ILE:HD12	1.96	0.47
1:K:261:GLY:HA3	1:L:284:MET:HG2	1.96	0.47
1:L:207:ASP:OD1	1:L:209:ARG:N	2.33	0.47
1:L:235:GLU:H	1:L:235:GLU:CD	2.11	0.47
1:N:207:ASP:OD1	1:N:209:ARG:N	2.33	0.47
1:N:503:GLU:OE2	1:N:505:SER:OG	2.31	0.47
1:O:120:ARG:HG2	1:O:123:ILE:HD12	1.96	0.47
1:O:167:ILE:CA	1:O:215:ILE:O	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:105:VAL:O	1:B:140:ILE:CB	2.49	0.47
1:D:180:MET:HE2	1:D:213:ILE:HD11	1.97	0.47
1:E:239:LYS:HE3	1:E:300:GLN:HB2	1.97	0.47
1:E:335:ILE:HG22	1:G:617:LEU:HD13	1.96	0.47
1:F:586:ILE:HG21	1:F:592:ALA:HB2	1.95	0.47
1:I:438:PRO:HB3	1:I:450:PHE:CE2	2.50	0.47
1:K:328:GLU:HG2	1:K:577:LEU:HG	1.96	0.47
1:L:283:VAL:HA	1:L:297:THR:O	2.14	0.47
1:M:503:GLU:OE2	1:M:505:SER:OG	2.31	0.47
1:A:634:ARG:HG3	1:A:635:HIS:O	2.15	0.47
1:B:182:ARG:HA	1:B:185:GLU:CD	2.36	0.47
1:B:450:PHE:O	1:B:483:LYS:HA	2.15	0.47
1:C:158:ARG:O	1:C:162:ALA:HB2	2.15	0.47
1:D:119:LEU:HD12	1:D:134:TYR:OH	2.14	0.47
1:D:247:LEU:HD11	1:D:294:LEU:HD23	1.96	0.47
1:E:328:GLU:HG2	1:E:577:LEU:HG	1.96	0.47
1:G:450:PHE:O	1:G:483:LYS:HA	2.15	0.47
1:H:328:GLU:HG2	1:H:577:LEU:HG	1.96	0.47
1:H:458:VAL:HB	1:I:477:ARG:HH21	1.80	0.47
1:J:283:VAL:HA	1:J:297:THR:O	2.14	0.47
1:J:328:GLU:HG2	1:J:577:LEU:HG	1.96	0.47
1:J:438:PRO:HB3	1:J:450:PHE:CE2	2.50	0.47
1:K:283:VAL:HA	1:K:297:THR:O	2.14	0.47
1:K:438:PRO:HB3	1:K:450:PHE:CE2	2.50	0.47
1:K:515:ASP:OD1	1:K:516:VAL:N	2.46	0.47
1:L:158:ARG:O	1:L:162:ALA:HB2	2.15	0.47
1:M:122:LEU:HD23	1:M:125:ASN:ND2	2.19	0.47
1:M:158:ARG:O	1:M:162:ALA:HB2	2.15	0.47
1:M:261:GLY:HA3	1:N:284:MET:HG2	1.96	0.47
1:M:458:VAL:HB	1:N:477:ARG:HH21	1.80	0.47
1:O:119:LEU:HD12	1:O:134:TYR:OH	2.14	0.47
1:O:226:LYS:HA	1:O:229:ILE:HB	1.96	0.47
1:A:102:THR:OG1	1:A:142:ILE:O	2.25	0.47
1:A:617:LEU:HD13	1:N:335:ILE:HG22	1.96	0.47
1:B:247:LEU:HD11	1:B:294:LEU:HD23	1.96	0.47
1:B:515:ASP:OD1	1:B:516:VAL:N	2.46	0.47
1:D:158:ARG:O	1:D:162:ALA:HB2	2.15	0.47
1:D:239:LYS:HE3	1:D:300:GLN:HB2	1.97	0.47
1:F:450:PHE:O	1:F:483:LYS:HA	2.15	0.47
1:G:328:GLU:HG2	1:G:577:LEU:HG	1.96	0.47
1:H:438:PRO:HB3	1:H:450:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:158:ARG:O	1:I:162:ALA:HB2	2.15	0.47
1:J:247:LEU:HD11	1:J:294:LEU:HD23	1.96	0.47
1:J:450:PHE:O	1:J:483:LYS:HA	2.15	0.47
1:K:158:ARG:O	1:K:162:ALA:HB2	2.15	0.47
1:K:450:PHE:O	1:K:483:LYS:HA	2.15	0.47
1:L:438:PRO:HB3	1:L:450:PHE:CE2	2.50	0.47
1:M:511:ASN:HA	1:M:512:GLY:HA2	1.60	0.47
1:N:102:THR:OG1	1:N:142:ILE:O	2.25	0.47
1:N:239:LYS:HE3	1:N:300:GLN:HB2	1.97	0.47
1:N:520:LYS:NZ	1:O:455:GLU:OE2	2.46	0.47
1:O:247:LEU:HD11	1:O:294:LEU:HD23	1.96	0.47
1:O:634:ARG:HG3	1:O:635:HIS:O	2.15	0.47
1:A:182:ARG:HA	1:A:185:GLU:CD	2.36	0.46
1:A:477:ARG:HH21	1:O:458:VAL:HB	1.80	0.46
1:B:458:VAL:HB	1:C:477:ARG:HH21	1.80	0.46
1:C:634:ARG:HG3	1:C:635:HIS:O	2.15	0.46
1:D:108:LYS:HA	1:D:138:ASN:ND2	2.29	0.46
1:D:177:ALA:N	1:D:211:ASN:OD1	2.41	0.46
1:D:328:GLU:HG2	1:D:577:LEU:HG	1.96	0.46
1:D:450:PHE:O	1:D:483:LYS:HA	2.15	0.46
1:F:158:ARG:O	1:F:162:ALA:HB2	2.15	0.46
1:F:458:VAL:HB	1:G:477:ARG:HH21	1.80	0.46
1:H:207:ASP:O	1:H:211:ASN:HA	2.16	0.46
1:I:226:LYS:HA	1:I:229:ILE:HB	1.96	0.46
1:J:457:PRO:HD3	1:J:477:ARG:NH1	2.31	0.46
1:K:458:VAL:HB	1:L:477:ARG:HH21	1.80	0.46
1:L:261:GLY:HA3	1:M:284:MET:HG2	1.96	0.46
1:M:457:PRO:HD3	1:M:477:ARG:NH1	2.31	0.46
1:N:457:PRO:HD3	1:N:477:ARG:NH1	2.31	0.46
1:O:105:VAL:O	1:O:140:ILE:CB	2.49	0.46
1:O:450:PHE:O	1:O:483:LYS:HA	2.15	0.46
1:A:158:ARG:O	1:A:162:ALA:HB2	2.15	0.46
1:C:182:ARG:HA	1:C:185:GLU:CD	2.36	0.46
1:C:239:LYS:HE3	1:C:300:GLN:HB2	1.97	0.46
1:E:227:ARG:O	1:E:231:GLN:HG3	2.16	0.46
1:G:207:ASP:O	1:G:211:ASN:HA	2.16	0.46
1:G:438:PRO:HB3	1:G:450:PHE:CE2	2.50	0.46
1:H:120:ARG:HG2	1:H:123:ILE:HD12	1.96	0.46
1:L:120:ARG:HG2	1:L:123:ILE:HD12	1.96	0.46
1:L:328:GLU:HG2	1:L:577:LEU:HG	1.96	0.46
1:M:634:ARG:HG3	1:M:635:HIS:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:ARG:O	1:A:231:GLN:HG3	2.16	0.46
1:A:239:LYS:HE3	1:A:300:GLN:HB2	1.97	0.46
1:A:283:VAL:HA	1:A:297:THR:O	2.14	0.46
1:C:438:PRO:HB3	1:C:450:PHE:CE2	2.50	0.46
1:D:120:ARG:HG2	1:D:123:ILE:HD12	1.96	0.46
1:D:261:GLY:HA3	1:E:284:MET:HG2	1.96	0.46
1:D:438:PRO:HB3	1:D:450:PHE:CE2	2.50	0.46
1:F:105:VAL:O	1:F:140:ILE:CB	2.49	0.46
1:F:328:GLU:HG2	1:F:577:LEU:HG	1.96	0.46
1:F:457:PRO:HD3	1:F:477:ARG:NH1	2.31	0.46
1:G:457:PRO:HD3	1:G:477:ARG:NH1	2.31	0.46
1:H:182:ARG:HA	1:H:185:GLU:CD	2.36	0.46
1:H:457:PRO:HD3	1:H:477:ARG:NH1	2.31	0.46
1:H:634:ARG:HG3	1:H:635:HIS:O	2.15	0.46
1:I:207:ASP:O	1:I:211:ASN:HA	2.16	0.46
1:I:634:ARG:HG3	1:I:635:HIS:O	2.15	0.46
1:J:158:ARG:O	1:J:162:ALA:HB2	2.15	0.46
1:K:501:GLU:HG2	1:K:524:ASN:HB2	1.98	0.46
1:M:328:GLU:HG2	1:M:577:LEU:HG	1.96	0.46
1:N:120:ARG:HG2	1:N:123:ILE:HD12	1.96	0.46
1:N:450:PHE:O	1:N:483:LYS:HA	2.15	0.46
1:O:215:ILE:HD12	1:O:215:ILE:HA	1.82	0.46
1:O:239:LYS:HE3	1:O:300:GLN:HB2	1.97	0.46
1:B:340:GLN:HE21	1:B:352:TYR:HB2	1.81	0.46
1:C:458:VAL:HB	1:D:477:ARG:HH21	1.80	0.46
1:D:207:ASP:O	1:D:211:ASN:HA	2.16	0.46
1:D:255:LEU:HD23	1:D:255:LEU:HA	1.73	0.46
1:D:458:VAL:HB	1:E:477:ARG:HH21	1.80	0.46
1:E:634:ARG:HG3	1:E:635:HIS:O	2.15	0.46
1:F:207:ASP:O	1:F:211:ASN:HA	2.16	0.46
1:F:515:ASP:OD1	1:F:516:VAL:N	2.46	0.46
1:I:182:ARG:HA	1:I:185:GLU:CD	2.36	0.46
1:I:203:LYS:N	1:I:216:SER:HG	2.14	0.46
1:L:457:PRO:HD3	1:L:477:ARG:NH1	2.31	0.46
1:L:501:GLU:HG2	1:L:524:ASN:HB2	1.98	0.46
1:M:438:PRO:HB3	1:M:450:PHE:CE2	2.50	0.46
1:N:203:LYS:N	1:N:216:SER:HG	2.14	0.46
1:O:177:ALA:N	1:O:211:ASN:OD1	2.41	0.46
1:O:182:ARG:HA	1:O:185:GLU:CD	2.36	0.46
1:A:340:GLN:HE21	1:A:352:TYR:HB2	1.81	0.46
1:C:105:VAL:O	1:C:140:ILE:CB	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:340:GLN:HE21	1:C:352:TYR:HB2	1.81	0.46
1:D:340:GLN:HE21	1:D:352:TYR:HB2	1.81	0.46
1:E:226:LYS:HA	1:E:229:ILE:HB	1.96	0.46
1:E:340:GLN:HE21	1:E:352:TYR:HB2	1.81	0.46
1:F:227:ARG:O	1:F:231:GLN:HG3	2.16	0.46
1:F:247:LEU:HD11	1:F:294:LEU:HD23	1.96	0.46
1:G:227:ARG:O	1:G:231:GLN:HG3	2.16	0.46
1:G:634:ARG:HG3	1:G:635:HIS:O	2.15	0.46
1:H:247:LEU:HD11	1:H:294:LEU:HD23	1.96	0.46
1:I:457:PRO:HD3	1:I:477:ARG:NH1	2.31	0.46
1:J:207:ASP:O	1:J:211:ASN:HA	2.16	0.46
1:J:340:GLN:HE21	1:J:352:TYR:HB2	1.81	0.46
1:K:203:LYS:N	1:K:216:SER:HG	2.14	0.46
1:K:225:LEU:HD23	1:K:225:LEU:HA	1.74	0.46
1:K:340:GLN:HE21	1:K:352:TYR:HB2	1.81	0.46
1:K:457:PRO:HD3	1:K:477:ARG:NH1	2.31	0.46
1:L:203:LYS:N	1:L:216:SER:HG	2.14	0.46
1:L:226:LYS:HA	1:L:229:ILE:HB	1.96	0.46
1:M:205:VAL:HG12	1:M:206:ALA:H	1.81	0.46
1:M:450:PHE:O	1:M:483:LYS:HA	2.15	0.46
1:A:458:VAL:HB	1:B:477:ARG:HH21	1.80	0.46
1:B:227:ARG:O	1:B:231:GLN:HG3	2.16	0.46
1:C:140:ILE:HG21	1:C:156:ILE:HD13	1.98	0.46
1:C:177:ALA:N	1:C:211:ASN:OD1	2.41	0.46
1:C:328:GLU:HG2	1:C:577:LEU:HG	1.96	0.46
1:D:140:ILE:HG21	1:D:156:ILE:HD13	1.98	0.46
1:D:203:LYS:N	1:D:216:SER:HG	2.14	0.46
1:E:140:ILE:HG21	1:E:156:ILE:HD13	1.98	0.46
1:E:182:ARG:HA	1:E:185:GLU:CD	2.36	0.46
1:E:457:PRO:HD3	1:E:477:ARG:NH1	2.31	0.46
1:F:140:ILE:HG21	1:F:156:ILE:HD13	1.98	0.46
1:G:182:ARG:HA	1:G:185:GLU:CD	2.36	0.46
1:H:227:ARG:O	1:H:231:GLN:HG3	2.16	0.46
1:I:140:ILE:HG21	1:I:156:ILE:HD13	1.98	0.46
1:I:458:VAL:HB	1:J:477:ARG:HH21	1.80	0.46
1:J:339:VAL:HG22	1:J:423:ILE:HG12	1.98	0.46
1:J:501:GLU:HG2	1:J:524:ASN:HB2	1.98	0.46
1:K:226:LYS:HA	1:K:229:ILE:HB	1.96	0.46
1:K:235:GLU:H	1:K:235:GLU:CD	2.11	0.46
1:M:120:ARG:HG2	1:M:123:ILE:HD12	1.96	0.46
1:M:203:LYS:N	1:M:216:SER:HG	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:634:ARG:HG3	1:N:635:HIS:O	2.15	0.46
1:O:457:PRO:HD3	1:O:477:ARG:NH1	2.31	0.46
1:D:182:ARG:HA	1:D:185:GLU:CD	2.36	0.46
1:E:450:PHE:O	1:E:483:LYS:HA	2.15	0.46
1:F:438:PRO:HB3	1:F:450:PHE:CE2	2.50	0.46
1:J:140:ILE:HG21	1:J:156:ILE:HD13	1.98	0.46
1:J:205:VAL:HG12	1:J:206:ALA:H	1.81	0.46
1:J:458:VAL:HB	1:K:477:ARG:HH21	1.80	0.46
1:M:226:LYS:HA	1:M:229:ILE:HB	1.96	0.46
1:N:322:ILE:HG23	1:N:581:ILE:HD11	1.98	0.46
1:N:438:PRO:HB3	1:N:450:PHE:CE2	2.50	0.46
1:O:205:VAL:HG12	1:O:206:ALA:H	1.81	0.46
1:O:322:ILE:HG23	1:O:581:ILE:HD11	1.98	0.46
1:A:450:PHE:O	1:A:483:LYS:HA	2.15	0.46
1:A:511:ASN:HA	1:A:512:GLY:HA2	1.60	0.46
1:B:158:ARG:O	1:B:162:ALA:HB2	2.15	0.46
1:D:227:ARG:O	1:D:231:GLN:HG3	2.16	0.46
1:E:158:ARG:O	1:E:162:ALA:HB2	2.15	0.46
1:E:171:GLU:HA	1:E:212:SER:OG	2.16	0.46
1:E:205:VAL:HG12	1:E:206:ALA:H	1.81	0.46
1:E:207:ASP:O	1:E:211:ASN:HA	2.16	0.46
1:F:182:ARG:HA	1:F:185:GLU:CD	2.36	0.46
1:F:203:LYS:N	1:F:216:SER:HG	2.14	0.46
1:F:340:GLN:HE21	1:F:352:TYR:HB2	1.81	0.46
1:G:140:ILE:HG21	1:G:156:ILE:HD13	1.98	0.46
1:G:203:LYS:N	1:G:216:SER:HG	2.14	0.46
1:G:339:VAL:HG22	1:G:423:ILE:HG12	1.98	0.46
1:H:226:LYS:HA	1:H:229:ILE:HB	1.96	0.46
1:H:450:PHE:O	1:H:483:LYS:HA	2.15	0.46
1:I:122:LEU:HD23	1:I:125:ASN:ND2	2.19	0.46
1:I:177:ALA:N	1:I:211:ASN:OD1	2.41	0.46
1:I:227:ARG:O	1:I:231:GLN:HG3	2.16	0.46
1:I:340:GLN:HE21	1:I:352:TYR:HB2	1.81	0.46
1:I:450:PHE:O	1:I:483:LYS:HA	2.15	0.46
1:I:501:GLU:HG2	1:I:524:ASN:HB2	1.98	0.46
1:J:182:ARG:HA	1:J:185:GLU:CD	2.36	0.46
1:J:520:LYS:NZ	1:K:455:GLU:OE2	2.46	0.46
1:K:205:VAL:HG12	1:K:206:ALA:H	1.81	0.46
1:L:182:ARG:HA	1:L:185:GLU:CD	2.36	0.46
1:L:339:VAL:HG22	1:L:423:ILE:HG12	1.98	0.46
1:M:322:ILE:HG23	1:M:581:ILE:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:501:GLU:HG2	1:M:524:ASN:HB2	1.98	0.46
1:N:182:ARG:HA	1:N:185:GLU:CD	2.36	0.46
1:O:340:GLN:HE21	1:O:352:TYR:HB2	1.81	0.46
1:A:322:ILE:HG23	1:A:581:ILE:HD11	1.98	0.46
1:B:157:ARG:HA	1:B:160:ASP:HB3	1.98	0.46
1:B:239:LYS:HE3	1:B:300:GLN:HB2	1.97	0.46
1:C:503:GLU:OE2	1:C:505:SER:OG	2.31	0.46
1:D:157:ARG:HA	1:D:160:ASP:HB3	1.98	0.46
1:E:120:ARG:HG2	1:E:123:ILE:HD12	1.96	0.46
1:E:438:PRO:HB3	1:E:450:PHE:CE2	2.50	0.46
1:F:171:GLU:HA	1:F:212:SER:OG	2.16	0.46
1:F:511:ASN:HA	1:F:512:GLY:HA2	1.60	0.46
1:G:226:LYS:HA	1:G:229:ILE:HB	1.96	0.46
1:H:140:ILE:HG21	1:H:156:ILE:HD13	1.98	0.46
1:H:205:VAL:HG12	1:H:206:ALA:H	1.81	0.46
1:H:339:VAL:HG22	1:H:423:ILE:HG12	1.98	0.46
1:H:501:GLU:HG2	1:H:524:ASN:HB2	1.98	0.46
1:I:339:VAL:HG22	1:I:423:ILE:HG12	1.98	0.46
1:K:207:ASP:O	1:K:211:ASN:HA	2.16	0.46
1:L:205:VAL:HG12	1:L:206:ALA:H	1.81	0.46
1:L:450:PHE:O	1:L:483:LYS:HA	2.15	0.46
1:M:227:ARG:O	1:M:231:GLN:HG3	2.16	0.46
1:A:140:ILE:HG21	1:A:156:ILE:HD13	1.98	0.46
1:A:207:ASP:O	1:A:211:ASN:HA	2.16	0.46
1:A:457:PRO:HD3	1:A:477:ARG:NH1	2.31	0.46
1:A:515:ASP:OD1	1:A:516:VAL:N	2.46	0.46
1:B:207:ASP:O	1:B:211:ASN:HA	2.15	0.46
1:B:322:ILE:HG23	1:B:581:ILE:HD11	1.98	0.46
1:D:171:GLU:HA	1:D:212:SER:OG	2.16	0.46
1:E:322:ILE:HG23	1:E:581:ILE:HD11	1.98	0.46
1:F:120:ARG:HG2	1:F:123:ILE:HD12	1.96	0.46
1:F:322:ILE:HG23	1:F:581:ILE:HD11	1.98	0.46
1:G:171:GLU:HA	1:G:212:SER:OG	2.16	0.46
1:K:140:ILE:HG21	1:K:156:ILE:HD13	1.98	0.46
1:K:339:VAL:HG22	1:K:423:ILE:HG12	1.98	0.46
1:L:207:ASP:O	1:L:211:ASN:HA	2.15	0.46
1:L:227:ARG:O	1:L:231:GLN:HG3	2.16	0.46
1:M:339:VAL:HG22	1:M:423:ILE:HG12	1.98	0.46
1:A:177:ALA:N	1:A:211:ASN:OD1	2.41	0.45
1:B:140:ILE:HG21	1:B:156:ILE:HD13	1.98	0.45
1:B:167:ILE:CA	1:B:215:ILE:O	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:203:LYS:N	1:B:216:SER:HG	2.14	0.45
1:B:205:VAL:HG12	1:B:206:ALA:H	1.81	0.45
1:C:450:PHE:O	1:C:483:LYS:HA	2.15	0.45
1:D:322:ILE:HG23	1:D:581:ILE:HD11	1.98	0.45
1:D:457:PRO:HD3	1:D:477:ARG:NH1	2.31	0.45
1:G:120:ARG:HG2	1:G:123:ILE:HD12	1.96	0.45
1:G:501:GLU:HG2	1:G:524:ASN:HB2	1.98	0.45
1:H:340:GLN:HE21	1:H:352:TYR:HB2	1.81	0.45
1:I:171:GLU:HA	1:I:212:SER:OG	2.16	0.45
1:J:203:LYS:N	1:J:216:SER:HG	2.14	0.45
1:J:227:ARG:O	1:J:231:GLN:HG3	2.16	0.45
1:J:503:GLU:OE2	1:J:505:SER:OG	2.31	0.45
1:L:322:ILE:HG23	1:L:581:ILE:HD11	1.98	0.45
1:L:340:GLN:HE21	1:L:352:TYR:HB2	1.81	0.45
1:L:520:LYS:NZ	1:M:455:GLU:OE2	2.46	0.45
1:M:182:ARG:HA	1:M:185:GLU:CD	2.36	0.45
1:N:105:VAL:O	1:N:140:ILE:CB	2.49	0.45
1:O:157:ARG:HA	1:O:160:ASP:HB3	1.98	0.45
1:O:207:ASP:O	1:O:211:ASN:HA	2.16	0.45
1:O:227:ARG:O	1:O:231:GLN:HG3	2.16	0.45
1:O:438:PRO:HB3	1:O:450:PHE:CE2	2.50	0.45
1:C:171:GLU:HA	1:C:212:SER:OG	2.16	0.45
1:C:227:ARG:O	1:C:231:GLN:HG3	2.16	0.45
1:C:322:ILE:HG23	1:C:581:ILE:HD11	1.98	0.45
1:F:339:VAL:HG22	1:F:423:ILE:HG12	1.98	0.45
1:H:171:GLU:HA	1:H:212:SER:OG	2.16	0.45
1:J:515:ASP:OD1	1:J:516:VAL:N	2.46	0.45
1:K:227:ARG:O	1:K:231:GLN:HG3	2.16	0.45
1:N:207:ASP:O	1:N:211:ASN:HA	2.16	0.45
1:N:458:VAL:HB	1:O:477:ARG:HH21	1.80	0.45
1:O:203:LYS:N	1:O:216:SER:HG	2.14	0.45
1:A:180:MET:HE2	1:A:213:ILE:HD11	1.97	0.45
1:A:203:LYS:N	1:A:216:SER:HG	2.14	0.45
1:A:218:ASP:O	1:A:222:ARG:N	2.50	0.45
1:B:218:ASP:O	1:B:222:ARG:N	2.50	0.45
1:B:225:LEU:HD23	1:B:225:LEU:HA	1.74	0.45
1:D:205:VAL:HG12	1:D:206:ALA:H	1.81	0.45
1:G:322:ILE:HG23	1:G:581:ILE:HD11	1.98	0.45
1:G:520:LYS:HZ1	1:H:479:GLU:CD	2.10	0.45
1:H:511:ASN:HA	1:H:512:GLY:HA2	1.60	0.45
1:K:503:GLU:OE2	1:K:505:SER:OG	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:140:ILE:HG21	1:M:156:ILE:HD13	1.98	0.45
1:M:207:ASP:O	1:M:211:ASN:HA	2.16	0.45
1:M:340:GLN:HE21	1:M:352:TYR:HB2	1.81	0.45
1:A:438:PRO:HB3	1:A:450:PHE:CE2	2.50	0.45
1:B:177:ALA:N	1:B:211:ASN:OD1	2.41	0.45
1:B:438:PRO:HB3	1:B:450:PHE:CE2	2.50	0.45
1:C:491:ASN:ND2	1:D:249:TYR:OH	2.50	0.45
1:D:122:LEU:HD23	1:D:125:ASN:ND2	2.19	0.45
1:F:157:ARG:HA	1:F:160:ASP:HB3	1.98	0.45
1:F:501:GLU:HG2	1:F:524:ASN:HB2	1.98	0.45
1:G:340:GLN:HE21	1:G:352:TYR:HB2	1.81	0.45
1:G:458:VAL:HB	1:H:477:ARG:HH21	1.80	0.45
1:I:218:ASP:O	1:I:222:ARG:N	2.50	0.45
1:I:491:ASN:ND2	1:J:249:TYR:OH	2.50	0.45
1:K:182:ARG:HA	1:K:185:GLU:CD	2.36	0.45
1:L:140:ILE:HG21	1:L:156:ILE:HD13	1.98	0.45
1:L:218:ASP:O	1:L:222:ARG:N	2.50	0.45
1:M:218:ASP:O	1:M:222:ARG:N	2.50	0.45
1:N:340:GLN:HE21	1:N:352:TYR:HB2	1.81	0.45
1:N:501:GLU:HG2	1:N:524:ASN:HB2	1.98	0.45
1:O:140:ILE:HG21	1:O:156:ILE:HD13	1.98	0.45
1:A:220:LYS:O	1:A:224:ARG:HG2	2.17	0.45
1:B:171:GLU:HA	1:B:212:SER:OG	2.16	0.45
1:C:207:ASP:O	1:C:211:ASN:HA	2.16	0.45
1:D:219:PRO:HA	1:D:222:ARG:CB	2.45	0.45
1:E:339:VAL:HG22	1:E:423:ILE:HG12	1.98	0.45
1:G:157:ARG:HA	1:G:160:ASP:HB3	1.98	0.45
1:H:218:ASP:O	1:H:222:ARG:N	2.50	0.45
1:I:511:ASN:HA	1:I:512:GLY:HA2	1.60	0.45
1:J:491:ASN:ND2	1:K:249:TYR:OH	2.50	0.45
1:N:227:ARG:O	1:N:231:GLN:HG3	2.16	0.45
1:C:167:ILE:CA	1:C:215:ILE:O	2.42	0.45
1:D:220:LYS:O	1:D:224:ARG:HG2	2.17	0.45
1:D:339:VAL:HG22	1:D:423:ILE:HG12	1.98	0.45
1:D:491:ASN:ND2	1:E:249:TYR:OH	2.50	0.45
1:F:220:LYS:O	1:F:224:ARG:HG2	2.17	0.45
1:G:220:LYS:O	1:G:224:ARG:HG2	2.17	0.45
1:H:322:ILE:HG23	1:H:581:ILE:HD11	1.98	0.45
1:I:255:LEU:HD23	1:I:255:LEU:HA	1.73	0.45
1:I:322:ILE:HG23	1:I:581:ILE:HD11	1.98	0.45
1:J:171:GLU:HA	1:J:212:SER:OG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:521:ARG:HD3	1:J:577:LEU:HD21	1.99	0.45
1:K:521:ARG:HD3	1:K:577:LEU:HD21	1.99	0.45
1:L:521:ARG:HD3	1:L:577:LEU:HD21	1.99	0.45
1:M:220:LYS:O	1:M:224:ARG:HG2	2.17	0.45
1:N:339:VAL:HG22	1:N:423:ILE:HG12	1.98	0.45
1:N:609:PHE:CB	1:O:639:ILE:HD12	2.47	0.45
1:A:205:VAL:HG12	1:A:206:ALA:H	1.81	0.45
1:A:347:GLY:H	1:B:366:LEU:HD21	1.82	0.45
1:B:457:PRO:HD3	1:B:477:ARG:NH1	2.31	0.45
1:B:491:ASN:ND2	1:C:249:TYR:OH	2.50	0.45
1:D:105:VAL:O	1:D:140:ILE:CB	2.49	0.45
1:D:501:GLU:HG2	1:D:524:ASN:HB2	1.98	0.45
1:E:220:LYS:O	1:E:224:ARG:HG2	2.17	0.45
1:F:205:VAL:HG12	1:F:206:ALA:H	1.81	0.45
1:F:521:ARG:HD3	1:F:577:LEU:HD21	1.99	0.45
1:G:521:ARG:HD3	1:G:577:LEU:HD21	1.99	0.45
1:H:220:LYS:O	1:H:224:ARG:HG2	2.17	0.45
1:I:220:LYS:O	1:I:224:ARG:HG2	2.17	0.45
1:I:521:ARG:HD3	1:I:577:LEU:HD21	1.99	0.45
1:J:322:ILE:HG23	1:J:581:ILE:HD11	1.98	0.45
1:K:322:ILE:HG23	1:K:581:ILE:HD11	1.98	0.45
1:K:520:LYS:NZ	1:L:455:GLU:OE2	2.46	0.45
1:L:458:VAL:HB	1:M:477:ARG:HH21	1.80	0.45
1:M:521:ARG:HD3	1:M:577:LEU:HD21	1.99	0.45
1:N:140:ILE:HG21	1:N:156:ILE:HD13	1.98	0.45
1:A:366:LEU:HD21	1:O:347:GLY:H	1.82	0.45
1:C:218:ASP:O	1:C:222:ARG:N	2.50	0.45
1:C:339:VAL:HG22	1:C:423:ILE:HG12	1.98	0.45
1:E:501:GLU:HG2	1:E:524:ASN:HB2	1.98	0.45
1:E:521:ARG:HD3	1:E:577:LEU:HD21	1.99	0.45
1:E:609:PHE:CB	1:F:639:ILE:HD12	2.47	0.45
1:H:255:LEU:HA	1:H:255:LEU:HD23	1.73	0.45
1:J:220:LYS:O	1:J:224:ARG:HG2	2.17	0.45
1:K:220:LYS:O	1:K:224:ARG:HG2	2.17	0.45
1:L:220:LYS:O	1:L:224:ARG:HG2	2.17	0.45
1:N:521:ARG:HD3	1:N:577:LEU:HD21	1.99	0.45
1:B:521:ARG:HD3	1:B:577:LEU:HD21	1.99	0.45
1:C:203:LYS:N	1:C:216:SER:HG	2.14	0.45
1:C:205:VAL:HG12	1:C:206:ALA:H	1.81	0.45
1:C:347:GLY:H	1:D:366:LEU:HD21	1.82	0.45
1:C:457:PRO:HD3	1:C:477:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:521:ARG:HD3	1:C:577:LEU:HD21	1.99	0.45
1:E:157:ARG:HA	1:E:160:ASP:HB3	1.98	0.45
1:E:177:ALA:N	1:E:211:ASN:OD1	2.41	0.45
1:E:458:VAL:HB	1:F:477:ARG:HH21	1.80	0.45
1:F:180:MET:HE2	1:F:213:ILE:HD11	1.98	0.45
1:F:347:GLY:H	1:G:366:LEU:HD21	1.82	0.45
1:F:491:ASN:ND2	1:G:249:TYR:OH	2.50	0.45
1:G:218:ASP:O	1:G:222:ARG:N	2.50	0.45
1:H:347:GLY:H	1:I:366:LEU:HD21	1.82	0.45
1:H:521:ARG:HD3	1:H:577:LEU:HD21	1.99	0.45
1:I:347:GLY:H	1:J:366:LEU:HD21	1.82	0.45
1:J:218:ASP:O	1:J:222:ARG:N	2.50	0.45
1:N:205:VAL:HG12	1:N:206:ALA:H	1.81	0.45
1:N:220:LYS:O	1:N:224:ARG:HG2	2.17	0.45
1:N:511:ASN:HA	1:N:512:GLY:HA2	1.60	0.45
1:A:521:ARG:HD3	1:A:577:LEU:HD21	1.99	0.45
1:A:639:ILE:HD12	1:O:609:PHE:CB	2.47	0.45
1:C:219:PRO:HA	1:C:222:ARG:CB	2.45	0.45
1:D:521:ARG:HD3	1:D:577:LEU:HD21	1.99	0.45
1:E:203:LYS:N	1:E:216:SER:HG	2.14	0.45
1:G:491:ASN:ND2	1:H:249:TYR:OH	2.50	0.45
1:I:157:ARG:HA	1:I:160:ASP:HB3	1.98	0.45
1:L:491:ASN:ND2	1:M:249:TYR:OH	2.50	0.45
1:M:171:GLU:HA	1:M:212:SER:OG	2.16	0.45
1:M:389:GLU:OE2	1:M:391:THR:HB	2.17	0.45
1:N:218:ASP:O	1:N:222:ARG:N	2.50	0.45
1:O:218:ASP:O	1:O:222:ARG:N	2.50	0.45
1:O:501:GLU:HG2	1:O:524:ASN:HB2	1.98	0.45
1:A:339:VAL:HG22	1:A:423:ILE:HG12	1.98	0.44
1:A:352:TYR:CD2	1:A:567:SER:HB2	2.53	0.44
1:B:339:VAL:HG22	1:B:423:ILE:HG12	1.98	0.44
1:B:347:GLY:H	1:C:366:LEU:HD21	1.82	0.44
1:B:609:PHE:CB	1:C:639:ILE:HD12	2.47	0.44
1:C:157:ARG:HA	1:C:160:ASP:HB3	1.98	0.44
1:G:205:VAL:HG12	1:G:206:ALA:H	1.81	0.44
1:G:347:GLY:H	1:H:366:LEU:HD21	1.82	0.44
1:K:218:ASP:O	1:K:222:ARG:N	2.50	0.44
1:L:157:ARG:HA	1:L:160:ASP:HB3	1.99	0.44
1:L:352:TYR:CD2	1:L:567:SER:HB2	2.52	0.44
1:M:491:ASN:ND2	1:N:249:TYR:OH	2.50	0.44
1:N:215:ILE:HD12	1:N:215:ILE:HA	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:491:ASN:ND2	1:O:249:TYR:OH	2.50	0.44
1:O:220:LYS:O	1:O:224:ARG:HG2	2.17	0.44
1:O:339:VAL:HG22	1:O:423:ILE:HG12	1.98	0.44
1:O:521:ARG:HD3	1:O:577:LEU:HD21	1.99	0.44
1:A:491:ASN:ND2	1:B:249:TYR:OH	2.50	0.44
1:C:501:GLU:HG2	1:C:524:ASN:HB2	1.98	0.44
1:D:167:ILE:CA	1:D:215:ILE:O	2.42	0.44
1:E:491:ASN:ND2	1:F:249:TYR:OH	2.50	0.44
1:F:215:ILE:HD12	1:F:215:ILE:HA	1.82	0.44
1:J:255:LEU:HD23	1:J:255:LEU:HA	1.73	0.44
1:K:167:ILE:CA	1:K:215:ILE:O	2.42	0.44
1:N:389:GLU:OE2	1:N:391:THR:HB	2.18	0.44
1:O:352:TYR:CD2	1:O:567:SER:HB2	2.53	0.44
1:A:171:GLU:HA	1:A:212:SER:OG	2.16	0.44
1:A:249:TYR:OH	1:O:491:ASN:ND2	2.50	0.44
1:B:220:LYS:O	1:B:224:ARG:HG2	2.17	0.44
1:C:255:LEU:HA	1:C:255:LEU:HD23	1.73	0.44
1:C:389:GLU:OE2	1:C:391:THR:HB	2.17	0.44
1:E:347:GLY:H	1:F:366:LEU:HD21	1.82	0.44
1:E:515:ASP:OD1	1:E:516:VAL:N	2.46	0.44
1:F:389:GLU:OE2	1:F:391:THR:HB	2.17	0.44
1:G:255:LEU:HA	1:G:255:LEU:HD23	1.73	0.44
1:G:609:PHE:CB	1:H:639:ILE:HD12	2.47	0.44
1:H:553:PRO:HB3	1:I:427:SER:HB2	2.00	0.44
1:I:205:VAL:HG12	1:I:206:ALA:H	1.81	0.44
1:J:235:GLU:H	1:J:235:GLU:CD	2.11	0.44
1:L:389:GLU:OE2	1:L:391:THR:HB	2.17	0.44
1:M:609:PHE:CB	1:N:639:ILE:HD12	2.47	0.44
1:N:157:ARG:HA	1:N:160:ASP:HB3	1.98	0.44
1:N:352:TYR:CD2	1:N:567:SER:HB2	2.52	0.44
1:A:427:SER:HB2	1:O:553:PRO:HB3	2.00	0.44
1:A:501:GLU:HG2	1:A:524:ASN:HB2	1.98	0.44
1:B:480:VAL:HG21	1:B:507:VAL:HG23	2.00	0.44
1:C:220:LYS:O	1:C:224:ARG:HG2	2.17	0.44
1:F:218:ASP:O	1:F:222:ARG:N	2.50	0.44
1:G:218:ASP:O	1:G:222:ARG:HG3	2.18	0.44
1:H:609:PHE:CB	1:I:639:ILE:HD12	2.47	0.44
1:I:218:ASP:O	1:I:222:ARG:HG3	2.18	0.44
1:I:219:PRO:HA	1:I:222:ARG:CB	2.45	0.44
1:I:609:PHE:CE1	1:J:639:ILE:HD13	2.53	0.44
1:J:347:GLY:H	1:K:366:LEU:HD21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:352:TYR:CD2	1:K:567:SER:HB2	2.52	0.44
1:K:491:ASN:ND2	1:L:249:TYR:OH	2.50	0.44
1:L:491:ASN:O	1:L:493:GLY:N	2.51	0.44
1:L:609:PHE:CB	1:M:639:ILE:HD12	2.47	0.44
1:N:171:GLU:HA	1:N:212:SER:OG	2.16	0.44
1:N:218:ASP:O	1:N:222:ARG:HG3	2.18	0.44
1:N:347:GLY:H	1:O:366:LEU:HD21	1.82	0.44
1:O:515:ASP:OD1	1:O:516:VAL:N	2.46	0.44
1:A:167:ILE:CA	1:A:215:ILE:O	2.42	0.44
1:A:177:ALA:HB3	1:A:208:GLU:HG3	2.00	0.44
1:B:218:ASP:O	1:B:222:ARG:HG3	2.18	0.44
1:B:389:GLU:OE2	1:B:391:THR:HB	2.17	0.44
1:D:218:ASP:O	1:D:222:ARG:N	2.50	0.44
1:D:389:GLU:OE2	1:D:391:THR:HB	2.17	0.44
1:F:218:ASP:O	1:F:222:ARG:HG3	2.18	0.44
1:F:352:TYR:CD2	1:F:567:SER:HB2	2.52	0.44
1:F:553:PRO:HB3	1:G:427:SER:HB2	2.00	0.44
1:F:609:PHE:CB	1:G:639:ILE:HD12	2.47	0.44
1:G:389:GLU:OE2	1:G:391:THR:HB	2.17	0.44
1:H:389:GLU:OE2	1:H:391:THR:HB	2.17	0.44
1:I:491:ASN:O	1:I:493:GLY:N	2.51	0.44
1:J:139:ILE:HG22	1:J:140:ILE:N	2.27	0.44
1:J:609:PHE:CE1	1:K:639:ILE:HD13	2.52	0.44
1:K:218:ASP:O	1:K:222:ARG:HG3	2.18	0.44
1:K:491:ASN:O	1:K:493:GLY:N	2.51	0.44
1:M:553:PRO:HB3	1:N:427:SER:HB2	2.00	0.44
1:B:219:PRO:HA	1:B:222:ARG:CB	2.45	0.44
1:C:609:PHE:CB	1:D:639:ILE:HD12	2.47	0.44
1:D:480:VAL:HG21	1:D:507:VAL:HG23	2.00	0.44
1:D:511:ASN:HA	1:D:512:GLY:HA2	1.60	0.44
1:H:491:ASN:ND2	1:I:249:TYR:OH	2.50	0.44
1:H:609:PHE:CE1	1:I:639:ILE:HD13	2.53	0.44
1:I:389:GLU:OE2	1:I:391:THR:HB	2.18	0.44
1:I:609:PHE:CB	1:J:639:ILE:HD12	2.47	0.44
1:J:491:ASN:O	1:J:493:GLY:N	2.51	0.44
1:K:180:MET:HB3	1:K:180:MET:HE3	1.88	0.44
1:L:218:ASP:O	1:L:222:ARG:HG3	2.18	0.44
1:L:219:PRO:HA	1:L:222:ARG:CB	2.45	0.44
1:L:480:VAL:HG21	1:L:507:VAL:HG23	2.00	0.44
1:M:157:ARG:HA	1:M:160:ASP:HB3	1.98	0.44
1:M:177:ALA:HB3	1:M:208:GLU:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:352:TYR:CD2	1:M:567:SER:HB2	2.52	0.44
1:M:491:ASN:O	1:M:493:GLY:N	2.51	0.44
1:O:480:VAL:HG21	1:O:507:VAL:HG23	2.00	0.44
1:A:218:ASP:O	1:A:222:ARG:HG3	2.18	0.44
1:A:609:PHE:CB	1:B:639:ILE:HD12	2.47	0.44
1:B:501:GLU:HG2	1:B:524:ASN:HB2	1.98	0.44
1:B:553:PRO:HB3	1:C:427:SER:HB2	2.00	0.44
1:D:218:ASP:O	1:D:222:ARG:HG3	2.18	0.44
1:D:553:PRO:HB3	1:E:427:SER:HB2	2.00	0.44
1:D:609:PHE:CB	1:E:639:ILE:HD12	2.47	0.44
1:E:167:ILE:CA	1:E:215:ILE:O	2.42	0.44
1:J:553:PRO:HB3	1:K:427:SER:HB2	2.00	0.44
1:K:553:PRO:HB3	1:L:427:SER:HB2	2.00	0.44
1:L:177:ALA:HB3	1:L:208:GLU:HG3	2.00	0.44
1:L:285:ILE:HD12	1:L:296:LEU:CD2	2.48	0.44
1:M:105:VAL:O	1:M:140:ILE:CB	2.49	0.44
1:N:480:VAL:HG21	1:N:507:VAL:HG23	2.00	0.44
1:O:171:GLU:HA	1:O:212:SER:OG	2.16	0.44
1:A:157:ARG:HA	1:A:160:ASP:HB3	1.98	0.44
1:A:480:VAL:HG21	1:A:507:VAL:HG23	2.00	0.44
1:B:100:VAL:HG13	1:B:144:GLY:HA2	2.00	0.44
1:B:285:ILE:HD12	1:B:296:LEU:CD2	2.48	0.44
1:B:491:ASN:O	1:B:493:GLY:N	2.51	0.44
1:B:609:PHE:CE1	1:C:639:ILE:HD13	2.53	0.44
1:C:609:PHE:CE1	1:D:639:ILE:HD13	2.53	0.44
1:E:218:ASP:O	1:E:222:ARG:HG3	2.18	0.44
1:E:285:ILE:HD12	1:E:296:LEU:CD2	2.48	0.44
1:G:105:VAL:O	1:G:140:ILE:CB	2.49	0.44
1:G:139:ILE:HG22	1:G:140:ILE:N	2.27	0.44
1:H:491:ASN:O	1:H:493:GLY:N	2.51	0.44
1:J:157:ARG:HA	1:J:160:ASP:HB3	1.98	0.44
1:M:218:ASP:O	1:M:222:ARG:HG3	2.18	0.44
1:N:225:LEU:HD23	1:N:225:LEU:HA	1.74	0.44
1:O:177:ALA:HB3	1:O:208:GLU:HG3	2.00	0.44
1:O:285:ILE:HD12	1:O:296:LEU:CD2	2.48	0.44
1:A:100:VAL:HG13	1:A:144:GLY:HA2	2.00	0.44
1:A:609:PHE:CE1	1:B:639:ILE:HD13	2.53	0.44
1:A:643:ILE:HD12	1:A:643:ILE:HA	1.86	0.44
1:D:285:ILE:HD12	1:D:296:LEU:CD2	2.48	0.44
1:D:347:GLY:H	1:E:366:LEU:HD21	1.82	0.44
1:D:491:ASN:O	1:D:493:GLY:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:105:VAL:CG1	1:E:157:ARG:HE	2.31	0.44
1:E:218:ASP:O	1:E:222:ARG:N	2.50	0.44
1:E:389:GLU:OE2	1:E:391:THR:HB	2.18	0.44
1:E:491:ASN:O	1:E:493:GLY:N	2.51	0.44
1:F:100:VAL:HG13	1:F:144:GLY:HA2	2.00	0.44
1:F:285:ILE:HD12	1:F:296:LEU:CD2	2.48	0.44
1:G:491:ASN:O	1:G:493:GLY:N	2.51	0.44
1:H:352:TYR:CD2	1:H:567:SER:HB2	2.53	0.44
1:H:643:ILE:HD12	1:H:643:ILE:HA	1.86	0.44
1:I:515:ASP:OD1	1:I:516:VAL:N	2.46	0.44
1:J:609:PHE:CB	1:K:639:ILE:HD12	2.47	0.44
1:L:171:GLU:HA	1:L:212:SER:OG	2.16	0.44
1:M:347:GLY:H	1:N:366:LEU:HD21	1.82	0.44
1:N:505:SER:HA	1:N:519:ALA:O	2.18	0.44
1:O:389:GLU:OE2	1:O:391:THR:HB	2.17	0.44
1:A:491:ASN:O	1:A:493:GLY:N	2.51	0.43
1:B:352:TYR:CD2	1:B:567:SER:HB2	2.53	0.43
1:C:100:VAL:HG13	1:C:144:GLY:HA2	2.00	0.43
1:C:218:ASP:O	1:C:222:ARG:HG3	2.18	0.43
1:C:285:ILE:HD12	1:C:296:LEU:CD2	2.48	0.43
1:C:491:ASN:O	1:C:493:GLY:N	2.51	0.43
1:D:177:ALA:HB3	1:D:208:GLU:HG3	2.00	0.43
1:E:100:VAL:HG13	1:E:144:GLY:HA2	2.00	0.43
1:F:491:ASN:O	1:F:493:GLY:N	2.51	0.43
1:H:105:VAL:CG1	1:H:157:ARG:HE	2.31	0.43
1:I:352:TYR:CD2	1:I:567:SER:HB2	2.53	0.43
1:I:553:PRO:HB3	1:J:427:SER:HB2	2.00	0.43
1:J:177:ALA:HB3	1:J:208:GLU:HG3	2.00	0.43
1:K:105:VAL:CG1	1:K:157:ARG:HE	2.31	0.43
1:K:171:GLU:HA	1:K:212:SER:OG	2.16	0.43
1:K:389:GLU:OE2	1:K:391:THR:HB	2.17	0.43
1:K:609:PHE:CB	1:L:639:ILE:HD12	2.47	0.43
1:K:609:PHE:CE1	1:L:639:ILE:HD13	2.52	0.43
1:N:285:ILE:HD12	1:N:296:LEU:CD2	2.48	0.43
1:O:100:VAL:HG13	1:O:144:GLY:HA2	2.00	0.43
1:A:553:PRO:HB3	1:B:427:SER:HB2	2.00	0.43
1:D:100:VAL:HG13	1:D:144:GLY:HA2	2.00	0.43
1:G:100:VAL:HG13	1:G:144:GLY:HA2	2.00	0.43
1:G:609:PHE:CE1	1:H:639:ILE:HD13	2.53	0.43
1:H:218:ASP:O	1:H:222:ARG:HG3	2.18	0.43
1:I:177:ALA:HB3	1:I:208:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:389:GLU:OE2	1:J:391:THR:HB	2.17	0.43
1:L:225:LEU:HD23	1:L:225:LEU:HA	1.74	0.43
1:M:480:VAL:HG21	1:M:507:VAL:HG23	2.00	0.43
1:N:491:ASN:O	1:N:493:GLY:N	2.51	0.43
1:O:505:SER:HA	1:O:519:ALA:O	2.18	0.43
1:A:389:GLU:OE2	1:A:391:THR:HB	2.17	0.43
1:A:639:ILE:HD13	1:O:609:PHE:CE1	2.53	0.43
1:C:177:ALA:HB3	1:C:208:GLU:HG3	2.00	0.43
1:C:352:TYR:CD2	1:C:567:SER:HB2	2.53	0.43
1:C:553:PRO:HB3	1:D:427:SER:HB2	2.00	0.43
1:F:255:LEU:HD23	1:F:255:LEU:HA	1.73	0.43
1:I:505:SER:HA	1:I:519:ALA:O	2.18	0.43
1:K:347:GLY:H	1:L:366:LEU:HD21	1.82	0.43
1:N:167:ILE:CA	1:N:215:ILE:O	2.42	0.43
1:O:218:ASP:O	1:O:222:ARG:HG3	2.18	0.43
1:A:219:PRO:HA	1:A:222:ARG:CB	2.45	0.43
1:E:352:TYR:CD2	1:E:567:SER:HB2	2.52	0.43
1:G:285:ILE:HD12	1:G:296:LEU:CD2	2.48	0.43
1:H:177:ALA:N	1:H:211:ASN:OD1	2.41	0.43
1:H:203:LYS:N	1:H:216:SER:HG	2.16	0.43
1:K:285:ILE:HD12	1:K:296:LEU:CD2	2.48	0.43
1:K:511:ASN:HA	1:K:512:GLY:HA2	1.60	0.43
1:M:505:SER:HA	1:M:519:ALA:O	2.18	0.43
1:N:100:VAL:HG13	1:N:144:GLY:HA2	2.00	0.43
1:A:255:LEU:HD23	1:A:255:LEU:HA	1.73	0.43
1:A:505:SER:HA	1:A:519:ALA:O	2.18	0.43
1:C:508:LEU:HD11	1:C:519:ALA:HB2	2.01	0.43
1:D:352:TYR:CD2	1:D:567:SER:HB2	2.53	0.43
1:D:435:LEU:CD2	1:E:626:LEU:HD23	2.49	0.43
1:D:508:LEU:HD11	1:D:519:ALA:HB2	2.01	0.43
1:E:553:PRO:HB3	1:F:427:SER:HB2	2.00	0.43
1:G:105:VAL:CG1	1:G:157:ARG:HE	2.31	0.43
1:G:553:PRO:HB3	1:H:427:SER:HB2	2.00	0.43
1:H:157:ARG:HA	1:H:160:ASP:HB3	1.98	0.43
1:I:225:LEU:HA	1:I:225:LEU:HD23	1.74	0.43
1:J:480:VAL:HG21	1:J:507:VAL:HG23	2.00	0.43
1:L:508:LEU:HD11	1:L:519:ALA:HB2	2.01	0.43
1:N:139:ILE:HG22	1:N:140:ILE:N	2.27	0.43
1:B:255:LEU:HA	1:B:255:LEU:HD23	1.73	0.43
1:B:435:LEU:CD2	1:C:626:LEU:HD23	2.49	0.43
1:C:480:VAL:HG21	1:C:507:VAL:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:102:THR:HA	1:E:143:THR:HA	2.01	0.43
1:F:505:SER:HA	1:F:519:ALA:O	2.19	0.43
1:G:352:TYR:CD2	1:G:567:SER:HB2	2.53	0.43
1:H:100:VAL:HG13	1:H:144:GLY:HA2	2.00	0.43
1:H:102:THR:HA	1:H:143:THR:HA	2.01	0.43
1:J:102:THR:HA	1:J:143:THR:HA	2.01	0.43
1:J:285:ILE:HD12	1:J:296:LEU:CD2	2.48	0.43
1:J:352:TYR:CD2	1:J:567:SER:HB2	2.53	0.43
1:K:157:ARG:HA	1:K:160:ASP:HB3	1.98	0.43
1:M:508:LEU:HD11	1:M:519:ALA:HB2	2.01	0.43
1:C:225:LEU:HD23	1:C:225:LEU:HA	1.74	0.43
1:D:505:SER:HA	1:D:519:ALA:O	2.18	0.43
1:E:215:ILE:HD12	1:E:215:ILE:HA	1.82	0.43
1:E:505:SER:HA	1:E:519:ALA:O	2.19	0.43
1:F:102:THR:HA	1:F:143:THR:HA	2.01	0.43
1:F:167:ILE:CA	1:F:215:ILE:O	2.42	0.43
1:G:480:VAL:HG21	1:G:507:VAL:HG23	2.00	0.43
1:H:357:ALA:HB3	1:H:407:ILE:HD11	2.01	0.43
1:J:218:ASP:O	1:J:222:ARG:HG3	2.18	0.43
1:J:219:PRO:HA	1:J:222:ARG:CB	2.45	0.43
1:K:102:THR:HA	1:K:143:THR:HA	2.01	0.43
1:M:102:THR:HA	1:M:143:THR:HA	2.01	0.43
1:M:435:LEU:CD2	1:N:626:LEU:HD23	2.49	0.43
1:N:102:THR:HA	1:N:143:THR:HA	2.01	0.43
1:N:609:PHE:CE1	1:O:639:ILE:HD13	2.52	0.43
1:B:177:ALA:HB3	1:B:208:GLU:HG3	2.00	0.43
1:B:508:LEU:HD11	1:B:519:ALA:HB2	2.01	0.43
1:D:102:THR:HA	1:D:143:THR:HA	2.01	0.43
1:F:435:LEU:CD2	1:G:626:LEU:HD23	2.49	0.43
1:F:480:VAL:HG21	1:F:507:VAL:HG23	2.00	0.43
1:G:102:THR:HA	1:G:143:THR:HA	2.01	0.43
1:G:435:LEU:CD2	1:H:626:LEU:HD23	2.49	0.43
1:G:505:SER:HA	1:G:519:ALA:O	2.19	0.43
1:I:285:ILE:HD12	1:I:296:LEU:CD2	2.48	0.43
1:I:357:ALA:HB3	1:I:407:ILE:HD11	2.01	0.43
1:K:166:GLU:HB3	1:K:167:ILE:H	1.67	0.43
1:K:225:LEU:O	1:K:229:ILE:HG13	2.19	0.43
1:L:435:LEU:CD2	1:M:626:LEU:HD23	2.49	0.43
1:L:553:PRO:HB3	1:M:427:SER:HB2	2.00	0.43
1:M:100:VAL:HG13	1:M:144:GLY:HA2	2.00	0.43
1:M:215:ILE:HD12	1:M:215:ILE:HA	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:515:ASP:OD1	1:M:516:VAL:N	2.46	0.43
1:N:435:LEU:CD2	1:O:626:LEU:HD23	2.49	0.43
1:N:553:PRO:HB3	1:O:427:SER:HB2	2.00	0.43
1:O:491:ASN:O	1:O:493:GLY:N	2.51	0.43
1:D:609:PHE:CE1	1:E:639:ILE:HD13	2.53	0.43
1:F:225:LEU:HD23	1:F:225:LEU:HA	1.74	0.43
1:G:357:ALA:HB3	1:G:407:ILE:HD11	2.01	0.43
1:H:285:ILE:HD12	1:H:296:LEU:CD2	2.48	0.43
1:I:105:VAL:CG1	1:I:157:ARG:HE	2.31	0.43
1:I:180:MET:HB3	1:I:180:MET:HE3	1.87	0.43
1:I:435:LEU:CD2	1:J:626:LEU:HD23	2.49	0.43
1:I:480:VAL:HG21	1:I:507:VAL:HG23	2.00	0.43
1:J:225:LEU:O	1:J:229:ILE:HG13	2.19	0.43
1:M:166:GLU:HB3	1:M:167:ILE:H	1.67	0.43
1:M:285:ILE:HD12	1:M:296:LEU:CD2	2.48	0.43
1:A:479:GLU:CD	1:O:520:LYS:HZ1	2.13	0.43
1:A:626:LEU:HD23	1:O:435:LEU:CD2	2.49	0.43
1:F:105:VAL:CG1	1:F:157:ARG:HE	2.31	0.43
1:H:166:GLU:HB3	1:H:167:ILE:H	1.67	0.43
1:I:100:VAL:HG13	1:I:144:GLY:HA2	2.00	0.43
1:I:102:THR:HA	1:I:143:THR:HA	2.01	0.43
1:J:301:ASP:OD1	1:J:302:ILE:N	2.52	0.43
1:K:435:LEU:CD2	1:L:626:LEU:HD23	2.49	0.43
1:K:508:LEU:HD11	1:K:519:ALA:HB2	2.01	0.43
1:L:102:THR:HA	1:L:143:THR:HA	2.01	0.43
1:L:115:LEU:HB3	1:L:119:LEU:HG	2.01	0.43
1:L:225:LEU:O	1:L:229:ILE:HG13	2.19	0.43
1:M:115:LEU:HB3	1:M:119:LEU:HG	2.01	0.43
1:M:551:LYS:HB3	1:M:566:ARG:HG2	2.01	0.43
1:N:170:VAL:HG11	1:N:229:ILE:HG21	2.01	0.43
1:O:102:THR:HA	1:O:143:THR:HA	2.01	0.43
1:O:219:PRO:HA	1:O:222:ARG:CB	2.45	0.43
1:B:505:SER:HA	1:B:519:ALA:O	2.18	0.42
1:C:102:THR:HA	1:C:143:THR:HA	2.01	0.42
1:C:105:VAL:CG1	1:C:157:ARG:HE	2.31	0.42
1:E:357:ALA:HB3	1:E:407:ILE:HD11	2.01	0.42
1:E:435:LEU:CD2	1:F:626:LEU:HD23	2.49	0.42
1:E:609:PHE:CE1	1:F:639:ILE:HD13	2.52	0.42
1:F:357:ALA:HB3	1:F:407:ILE:HD11	2.01	0.42
1:G:115:LEU:HB3	1:G:119:LEU:HG	2.01	0.42
1:H:505:SER:HA	1:H:519:ALA:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:225:LEU:HD23	1:J:225:LEU:HA	1.74	0.42
1:J:609:PHE:CD2	1:K:639:ILE:CD1	2.74	0.42
1:K:115:LEU:HB3	1:K:119:LEU:HG	2.01	0.42
1:K:177:ALA:HB3	1:K:208:GLU:HG3	2.00	0.42
1:K:219:PRO:HA	1:K:222:ARG:CB	2.45	0.42
1:K:505:SER:HA	1:K:519:ALA:O	2.19	0.42
1:L:551:LYS:HB3	1:L:566:ARG:HG2	2.01	0.42
1:N:551:LYS:HB3	1:N:566:ARG:HG2	2.01	0.42
1:O:301:ASP:OD1	1:O:302:ILE:N	2.52	0.42
1:O:511:ASN:HA	1:O:512:GLY:HA2	1.60	0.42
1:O:643:ILE:HD12	1:O:643:ILE:HA	1.86	0.42
1:A:102:THR:HA	1:A:143:THR:HA	2.01	0.42
1:A:285:ILE:HD12	1:A:296:LEU:CD2	2.48	0.42
1:A:435:LEU:CD2	1:B:626:LEU:HD23	2.49	0.42
1:A:551:LYS:HB3	1:A:566:ARG:HG2	2.01	0.42
1:E:170:VAL:HG11	1:E:229:ILE:HG21	2.01	0.42
1:E:225:LEU:HD23	1:E:225:LEU:HA	1.74	0.42
1:E:508:LEU:HD11	1:E:519:ALA:HB2	2.01	0.42
1:F:115:LEU:HB3	1:F:119:LEU:HG	2.01	0.42
1:F:177:ALA:HB3	1:F:208:GLU:HG3	2.00	0.42
1:F:219:PRO:HA	1:F:222:ARG:CB	2.45	0.42
1:H:115:LEU:HB3	1:H:119:LEU:HG	2.01	0.42
1:H:539:GLY:CA	1:H:577:LEU:O	2.68	0.42
1:J:357:ALA:HB3	1:J:407:ILE:HD11	2.01	0.42
1:J:505:SER:HA	1:J:519:ALA:O	2.19	0.42
1:K:99:GLU:O	1:K:145:ARG:HA	2.19	0.42
1:L:99:GLU:O	1:L:145:ARG:HA	2.19	0.42
1:L:105:VAL:CG1	1:L:157:ARG:HE	2.32	0.42
1:L:505:SER:HA	1:L:519:ALA:O	2.18	0.42
1:M:170:VAL:HG11	1:M:229:ILE:HG21	2.01	0.42
1:M:609:PHE:CE1	1:N:639:ILE:HD13	2.53	0.42
1:N:177:ALA:HB3	1:N:208:GLU:HG3	2.00	0.42
1:N:508:LEU:HD11	1:N:519:ALA:HB2	2.01	0.42
1:O:170:VAL:HG11	1:O:229:ILE:HG21	2.01	0.42
1:B:225:LEU:O	1:B:229:ILE:HG13	2.19	0.42
1:B:551:LYS:HB3	1:B:566:ARG:HG2	2.01	0.42
1:D:170:VAL:HG11	1:D:229:ILE:HG21	2.01	0.42
1:D:357:ALA:HB3	1:D:407:ILE:HD11	2.01	0.42
1:F:170:VAL:HG11	1:F:229:ILE:HG21	2.01	0.42
1:F:609:PHE:CE1	1:G:639:ILE:HD13	2.53	0.42
1:H:435:LEU:CD2	1:I:626:LEU:HD23	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:508:LEU:HD11	1:H:519:ALA:HB2	2.01	0.42
1:I:115:LEU:HB3	1:I:119:LEU:HG	2.01	0.42
1:I:170:VAL:HG11	1:I:229:ILE:HG21	2.01	0.42
1:J:100:VAL:HG13	1:J:144:GLY:HA2	2.00	0.42
1:J:115:LEU:HB3	1:J:119:LEU:HG	2.01	0.42
1:L:100:VAL:HG13	1:L:144:GLY:HA2	2.00	0.42
1:L:347:GLY:H	1:M:366:LEU:HD21	1.82	0.42
1:L:511:ASN:HA	1:L:512:GLY:HA2	1.60	0.42
1:L:609:PHE:CE1	1:M:639:ILE:HD13	2.52	0.42
1:N:115:LEU:HB3	1:N:119:LEU:HG	2.01	0.42
1:N:515:ASP:OD1	1:N:516:VAL:N	2.46	0.42
1:O:551:LYS:HB3	1:O:566:ARG:HG2	2.01	0.42
1:A:225:LEU:O	1:A:229:ILE:HG13	2.19	0.42
1:A:508:LEU:HD11	1:A:519:ALA:HB2	2.01	0.42
1:C:170:VAL:HG11	1:C:229:ILE:HG21	2.01	0.42
1:C:181:VAL:HG12	1:C:185:GLU:OE2	2.20	0.42
1:C:505:SER:HA	1:C:519:ALA:O	2.18	0.42
1:C:551:LYS:HB3	1:C:566:ARG:HG2	2.01	0.42
1:G:99:GLU:O	1:G:145:ARG:HA	2.20	0.42
1:H:480:VAL:HG21	1:H:507:VAL:HG23	2.00	0.42
1:J:435:LEU:CD2	1:K:626:LEU:HD23	2.49	0.42
1:K:551:LYS:HB3	1:K:566:ARG:HG2	2.01	0.42
1:M:225:LEU:O	1:M:229:ILE:HG13	2.19	0.42
1:N:181:VAL:HG12	1:N:185:GLU:OE2	2.20	0.42
1:O:181:VAL:HG12	1:O:185:GLU:OE2	2.20	0.42
1:A:181:VAL:HG12	1:A:185:GLU:OE2	2.20	0.42
1:C:357:ALA:HB3	1:C:407:ILE:HD11	2.01	0.42
1:E:480:VAL:HG21	1:E:507:VAL:HG23	2.00	0.42
1:E:539:GLY:CA	1:E:577:LEU:O	2.68	0.42
1:G:508:LEU:HD11	1:G:519:ALA:HB2	2.01	0.42
1:H:99:GLU:O	1:H:145:ARG:HA	2.19	0.42
1:H:225:LEU:HA	1:H:225:LEU:HD23	1.74	0.42
1:I:225:LEU:O	1:I:229:ILE:HG13	2.19	0.42
1:K:100:VAL:HG13	1:K:144:GLY:HA2	2.00	0.42
1:K:247:LEU:CD1	1:K:255:LEU:HD12	2.50	0.42
1:N:219:PRO:HA	1:N:222:ARG:CB	2.45	0.42
1:O:105:VAL:CG1	1:O:157:ARG:HE	2.32	0.42
1:B:102:THR:HA	1:B:143:THR:HA	2.01	0.42
1:B:170:VAL:HG11	1:B:229:ILE:HG21	2.01	0.42
1:B:181:VAL:HG12	1:B:185:GLU:OE2	2.20	0.42
1:C:207:ASP:OD2	1:C:209:ARG:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:352:TYR:OH	1:D:565:PHE:O	2.33	0.42
1:E:225:LEU:O	1:E:229:ILE:HG13	2.19	0.42
1:F:225:LEU:O	1:F:229:ILE:HG13	2.19	0.42
1:H:170:VAL:HG11	1:H:229:ILE:HG21	2.01	0.42
1:J:170:VAL:HG11	1:J:229:ILE:HG21	2.01	0.42
1:M:181:VAL:HG12	1:M:185:GLU:OE2	2.20	0.42
1:M:219:PRO:HA	1:M:222:ARG:CB	2.45	0.42
1:N:207:ASP:OD2	1:N:209:ARG:HB3	2.20	0.42
1:N:357:ALA:HB3	1:N:407:ILE:HD11	2.01	0.42
1:A:170:VAL:HG11	1:A:229:ILE:HG21	2.01	0.42
1:C:247:LEU:CD1	1:C:255:LEU:HD12	2.50	0.42
1:C:435:LEU:CD2	1:D:626:LEU:HD23	2.49	0.42
1:D:551:LYS:HB3	1:D:566:ARG:HG2	2.01	0.42
1:E:115:LEU:HB3	1:E:119:LEU:HG	2.01	0.42
1:H:247:LEU:CD1	1:H:255:LEU:HD12	2.50	0.42
1:I:539:GLY:CA	1:I:577:LEU:O	2.68	0.42
1:J:247:LEU:CD1	1:J:255:LEU:HD12	2.50	0.42
1:J:551:LYS:HB3	1:J:566:ARG:HG2	2.01	0.42
1:K:357:ALA:HB3	1:K:407:ILE:HD11	2.01	0.42
1:O:207:ASP:OD2	1:O:209:ARG:HB3	2.20	0.42
1:O:225:LEU:HD23	1:O:225:LEU:HA	1.74	0.42
1:A:115:LEU:HB3	1:A:119:LEU:HG	2.01	0.42
1:A:642:PHE:CE2	1:O:612:GLU:CG	2.81	0.42
1:B:207:ASP:OD2	1:B:209:ARG:HB3	2.20	0.42
1:B:247:LEU:CD1	1:B:255:LEU:HD12	2.50	0.42
1:D:115:LEU:HB3	1:D:119:LEU:HG	2.01	0.42
1:E:247:LEU:CD1	1:E:255:LEU:HD12	2.50	0.42
1:G:170:VAL:HG11	1:G:229:ILE:HG21	2.01	0.42
1:I:247:LEU:CD1	1:I:255:LEU:HD12	2.50	0.42
1:I:508:LEU:HD11	1:I:519:ALA:HB2	2.01	0.42
1:J:99:GLU:O	1:J:145:ARG:HA	2.19	0.42
1:L:170:VAL:HG11	1:L:229:ILE:HG21	2.01	0.42
1:O:115:LEU:HB3	1:O:119:LEU:HG	2.01	0.42
1:O:357:ALA:HB3	1:O:407:ILE:HD11	2.01	0.42
1:B:301:ASP:OD1	1:B:302:ILE:N	2.52	0.42
1:C:301:ASP:OD1	1:C:302:ILE:N	2.52	0.42
1:D:215:ILE:HD12	1:D:215:ILE:HA	1.82	0.42
1:D:225:LEU:O	1:D:229:ILE:HG13	2.19	0.42
1:E:339:VAL:HB	1:E:564:LEU:O	2.20	0.42
1:F:99:GLU:O	1:F:145:ARG:HA	2.19	0.42
1:G:167:ILE:CA	1:G:215:ILE:O	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:225:LEU:O	1:G:229:ILE:HG13	2.19	0.42
1:G:301:ASP:OD1	1:G:302:ILE:N	2.52	0.42
1:H:301:ASP:OD1	1:H:302:ILE:N	2.52	0.42
1:I:301:ASP:OD1	1:I:302:ILE:N	2.52	0.42
1:L:181:VAL:HG12	1:L:185:GLU:OE2	2.20	0.42
1:M:99:GLU:O	1:M:145:ARG:HA	2.19	0.42
1:M:339:VAL:HB	1:M:564:LEU:O	2.20	0.42
1:M:357:ALA:HB3	1:M:407:ILE:HD11	2.01	0.42
1:M:539:GLY:CA	1:M:577:LEU:O	2.68	0.42
1:N:247:LEU:CD1	1:N:255:LEU:HD12	2.50	0.42
1:O:508:LEU:HD11	1:O:519:ALA:HB2	2.01	0.42
1:A:301:ASP:OD1	1:A:302:ILE:N	2.52	0.42
1:B:123:ILE:HG23	1:B:130:ASN:HB2	2.02	0.42
1:B:139:ILE:HG22	1:B:140:ILE:N	2.27	0.42
1:B:357:ALA:HB3	1:B:407:ILE:HD11	2.01	0.42
1:C:115:LEU:HB3	1:C:119:LEU:HG	2.01	0.42
1:C:123:ILE:HG23	1:C:130:ASN:HB2	2.02	0.42
1:C:225:LEU:O	1:C:229:ILE:HG13	2.19	0.42
1:D:181:VAL:HG12	1:D:185:GLU:OE2	2.20	0.42
1:F:301:ASP:OD1	1:F:302:ILE:N	2.52	0.42
1:F:339:VAL:HB	1:F:564:LEU:O	2.20	0.42
1:G:247:LEU:CD1	1:G:255:LEU:HD12	2.50	0.42
1:G:339:VAL:HB	1:G:564:LEU:O	2.20	0.42
1:H:207:ASP:OD2	1:H:209:ARG:HB3	2.20	0.42
1:H:219:PRO:HA	1:H:222:ARG:CB	2.45	0.42
1:I:207:ASP:OD2	1:I:209:ARG:HB3	2.20	0.42
1:J:102:THR:OG1	1:J:142:ILE:O	2.25	0.42
1:L:247:LEU:CD1	1:L:255:LEU:HD12	2.50	0.42
1:N:225:LEU:O	1:N:229:ILE:HG13	2.19	0.42
1:O:225:LEU:O	1:O:229:ILE:HG13	2.19	0.42
1:A:142:ILE:CG2	1:A:149:VAL:HG22	2.50	0.41
1:D:166:GLU:HB3	1:D:167:ILE:H	1.67	0.41
1:D:301:ASP:OD1	1:D:302:ILE:N	2.52	0.41
1:H:515:ASP:OD1	1:H:516:VAL:N	2.46	0.41
1:I:551:LYS:HB3	1:I:566:ARG:HG2	2.01	0.41
1:J:643:ILE:HD12	1:J:643:ILE:HA	1.86	0.41
1:K:170:VAL:HG11	1:K:229:ILE:HG21	2.01	0.41
1:K:181:VAL:HG12	1:K:185:GLU:OE2	2.20	0.41
1:K:246:TYR:HD1	1:K:293:SER:HB3	1.85	0.41
1:K:480:VAL:HG21	1:K:507:VAL:HG23	2.00	0.41
1:L:339:VAL:HB	1:L:564:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:140:ILE:HG21	1:N:156:ILE:HG21	2.02	0.41
1:O:247:LEU:CD1	1:O:255:LEU:HD12	2.50	0.41
1:A:123:ILE:HG23	1:A:130:ASN:HB2	2.02	0.41
1:A:247:LEU:CD1	1:A:255:LEU:HD12	2.50	0.41
1:A:339:VAL:HB	1:A:564:LEU:O	2.20	0.41
1:C:139:ILE:HG22	1:C:140:ILE:N	2.27	0.41
1:C:142:ILE:CG2	1:C:149:VAL:HG22	2.50	0.41
1:C:288:HIS:HD2	1:C:291:THR:HB	1.86	0.41
1:D:246:TYR:HD1	1:D:293:SER:HB3	1.85	0.41
1:D:247:LEU:CD1	1:D:255:LEU:HD12	2.50	0.41
1:D:640:GLN:NE2	1:D:643:ILE:HG21	2.35	0.41
1:E:246:TYR:HD1	1:E:293:SER:HB3	1.85	0.41
1:E:301:ASP:OD1	1:E:302:ILE:N	2.52	0.41
1:E:551:LYS:HB3	1:E:566:ARG:HG2	2.01	0.41
1:F:181:VAL:HG12	1:F:185:GLU:OE2	2.20	0.41
1:G:207:ASP:OD2	1:G:209:ARG:HB3	2.20	0.41
1:H:288:HIS:HD2	1:H:291:THR:HB	1.86	0.41
1:H:339:VAL:HB	1:H:564:LEU:O	2.20	0.41
1:H:345:GLU:HG3	1:H:346:SER:H	1.86	0.41
1:I:339:VAL:HB	1:I:564:LEU:O	2.20	0.41
1:I:643:ILE:HD12	1:I:643:ILE:HA	1.86	0.41
1:J:207:ASP:OD2	1:J:209:ARG:HB3	2.20	0.41
1:K:139:ILE:C	1:K:140:ILE:HG13	2.41	0.41
1:L:139:ILE:C	1:L:140:ILE:HG13	2.41	0.41
1:L:357:ALA:HB3	1:L:407:ILE:HD11	2.01	0.41
1:M:139:ILE:C	1:M:140:ILE:HG13	2.41	0.41
1:N:113:ARG:HD2	1:N:134:TYR:CD2	2.55	0.41
1:A:99:GLU:O	1:A:145:ARG:HA	2.19	0.41
1:A:215:ILE:HD12	1:A:215:ILE:HA	1.82	0.41
1:A:246:TYR:HD1	1:A:293:SER:HB3	1.86	0.41
1:A:357:ALA:HB3	1:A:407:ILE:HD11	2.01	0.41
1:B:115:LEU:HB3	1:B:119:LEU:HG	2.01	0.41
1:B:178:ALA:O	1:B:181:VAL:HB	2.21	0.41
1:B:440:ILE:HD12	1:B:440:ILE:HA	1.91	0.41
1:D:339:VAL:HB	1:D:564:LEU:O	2.20	0.41
1:G:181:VAL:HG12	1:G:185:GLU:OE2	2.20	0.41
1:G:345:GLU:HG3	1:G:346:SER:H	1.86	0.41
1:I:99:GLU:O	1:I:145:ARG:HA	2.20	0.41
1:J:139:ILE:C	1:J:140:ILE:HG13	2.41	0.41
1:J:339:VAL:HB	1:J:564:LEU:O	2.20	0.41
1:J:508:LEU:HD11	1:J:519:ALA:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:288:HIS:HD2	1:K:291:THR:HB	1.85	0.41
1:M:140:ILE:HG21	1:M:156:ILE:HG21	2.02	0.41
1:M:178:ALA:O	1:M:181:VAL:HB	2.21	0.41
1:M:247:LEU:CD1	1:M:255:LEU:HD12	2.50	0.41
1:M:288:HIS:HD2	1:M:291:THR:HB	1.86	0.41
1:N:142:ILE:CG2	1:N:149:VAL:HG22	2.50	0.41
1:N:288:HIS:HD2	1:N:291:THR:HB	1.86	0.41
1:A:178:ALA:O	1:A:181:VAL:HB	2.21	0.41
1:A:256:VAL:HG23	1:A:285:ILE:HG22	2.03	0.41
1:B:643:ILE:HD12	1:B:643:ILE:HA	1.86	0.41
1:C:511:ASN:HA	1:C:512:GLY:HA2	1.60	0.41
1:D:140:ILE:HG21	1:D:156:ILE:HG21	2.02	0.41
1:E:140:ILE:HG21	1:E:156:ILE:HG21	2.02	0.41
1:E:181:VAL:HG12	1:E:185:GLU:OE2	2.20	0.41
1:E:352:TYR:OH	1:E:565:PHE:O	2.33	0.41
1:F:539:GLY:CA	1:F:577:LEU:O	2.68	0.41
1:F:640:GLN:NE2	1:F:643:ILE:HG21	2.35	0.41
1:K:123:ILE:HG23	1:K:130:ASN:HB2	2.02	0.41
1:K:178:ALA:O	1:K:181:VAL:HB	2.21	0.41
1:L:178:ALA:O	1:L:181:VAL:HB	2.21	0.41
1:L:215:ILE:HD12	1:L:215:ILE:HA	1.82	0.41
1:L:288:HIS:HD2	1:L:291:THR:HB	1.86	0.41
1:M:113:ARG:HD2	1:M:134:TYR:CD2	2.55	0.41
1:N:99:GLU:O	1:N:145:ARG:HA	2.19	0.41
1:N:256:VAL:HG23	1:N:285:ILE:HG22	2.03	0.41
1:N:539:GLY:CA	1:N:577:LEU:O	2.68	0.41
1:O:99:GLU:O	1:O:145:ARG:HA	2.19	0.41
1:O:113:ARG:HD2	1:O:134:TYR:CD2	2.55	0.41
1:B:99:GLU:O	1:B:145:ARG:HA	2.19	0.41
1:B:132:VAL:HG22	1:B:142:ILE:HG23	2.03	0.41
1:B:313:LEU:HD11	1:C:295:VAL:HG21	2.03	0.41
1:C:99:GLU:O	1:C:145:ARG:HA	2.19	0.41
1:C:215:ILE:HD12	1:C:215:ILE:HA	1.82	0.41
1:C:313:LEU:HD11	1:D:295:VAL:HG21	2.03	0.41
1:C:339:VAL:HB	1:C:564:LEU:O	2.20	0.41
1:C:577:LEU:O	1:C:578:MET:HE2	2.20	0.41
1:E:178:ALA:O	1:E:181:VAL:HB	2.21	0.41
1:E:207:ASP:OD2	1:E:209:ARG:HB3	2.20	0.41
1:F:140:ILE:HG21	1:F:156:ILE:HG21	2.02	0.41
1:F:178:ALA:O	1:F:181:VAL:HB	2.21	0.41
1:F:246:TYR:HD1	1:F:293:SER:HB3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:246:TYR:HD1	1:I:293:SER:HB3	1.85	0.41
1:J:178:ALA:O	1:J:181:VAL:HB	2.21	0.41
1:J:246:TYR:HD1	1:J:293:SER:HB3	1.86	0.41
1:J:577:LEU:O	1:J:578:MET:HE2	2.20	0.41
1:K:139:ILE:HG22	1:K:140:ILE:N	2.27	0.41
1:K:339:VAL:HB	1:K:564:LEU:O	2.20	0.41
1:L:140:ILE:HG21	1:L:156:ILE:HG21	2.02	0.41
1:L:207:ASP:OD2	1:L:209:ARG:HB3	2.20	0.41
1:M:142:ILE:CG2	1:M:149:VAL:HG22	2.50	0.41
1:N:178:ALA:O	1:N:181:VAL:HB	2.21	0.41
1:O:140:ILE:HG21	1:O:156:ILE:HG21	2.02	0.41
1:A:166:GLU:HB3	1:A:167:ILE:H	1.67	0.41
1:A:313:LEU:HD11	1:B:295:VAL:HG21	2.03	0.41
1:B:256:VAL:HG13	1:B:257:GLU:N	2.36	0.41
1:B:339:VAL:HB	1:B:564:LEU:O	2.20	0.41
1:B:345:GLU:HG3	1:B:346:SER:H	1.86	0.41
1:B:640:GLN:NE2	1:B:643:ILE:HG21	2.35	0.41
1:D:207:ASP:OD2	1:D:209:ARG:HB3	2.20	0.41
1:F:508:LEU:HD11	1:F:519:ALA:HB2	2.01	0.41
1:G:256:VAL:HG13	1:G:257:GLU:N	2.36	0.41
1:G:577:LEU:O	1:G:578:MET:HE2	2.21	0.41
1:H:225:LEU:O	1:H:229:ILE:HG13	2.19	0.41
1:J:123:ILE:HG23	1:J:130:ASN:HB2	2.02	0.41
1:J:181:VAL:HG12	1:J:185:GLU:OE2	2.20	0.41
1:K:440:ILE:HD12	1:K:440:ILE:HA	1.91	0.41
1:K:613:LYS:HG3	1:K:613:LYS:O	2.21	0.41
1:L:123:ILE:HG23	1:L:130:ASN:HB2	2.02	0.41
1:M:207:ASP:OD2	1:M:209:ARG:HB3	2.20	0.41
1:M:246:TYR:HD1	1:M:293:SER:HB3	1.86	0.41
1:N:139:ILE:C	1:N:140:ILE:HG13	2.41	0.41
1:N:246:TYR:HD1	1:N:293:SER:HB3	1.86	0.41
1:A:113:ARG:HD2	1:A:134:TYR:CD2	2.55	0.41
1:A:132:VAL:HG22	1:A:142:ILE:HG23	2.03	0.41
1:A:207:ASP:OD2	1:A:209:ARG:HB3	2.20	0.41
1:A:288:HIS:HD2	1:A:291:THR:HB	1.86	0.41
1:C:155:ILE:O	1:C:158:ARG:HB3	2.21	0.41
1:C:640:GLN:NE2	1:C:643:ILE:HG21	2.35	0.41
1:D:256:VAL:HG13	1:D:257:GLU:N	2.36	0.41
1:E:99:GLU:O	1:E:145:ARG:HA	2.19	0.41
1:E:142:ILE:CG2	1:E:149:VAL:HG22	2.50	0.41
1:E:288:HIS:HD2	1:E:291:THR:HB	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:207:ASP:OD2	1:F:209:ARG:HB3	2.20	0.41
1:F:288:HIS:HD2	1:F:291:THR:HB	1.86	0.41
1:F:506:ASN:OD1	1:F:519:ALA:HB3	2.21	0.41
1:F:551:LYS:HB3	1:F:566:ARG:HG2	2.01	0.41
1:F:577:LEU:O	1:F:578:MET:HE2	2.21	0.41
1:G:225:LEU:HD23	1:G:225:LEU:HA	1.74	0.41
1:G:506:ASN:OD1	1:G:519:ALA:HB3	2.21	0.41
1:I:123:ILE:HG23	1:I:130:ASN:HB2	2.02	0.41
1:K:207:ASP:OD2	1:K:209:ARG:HB3	2.20	0.41
1:K:643:ILE:HD12	1:K:643:ILE:HA	1.86	0.41
1:L:256:VAL:HG23	1:L:285:ILE:HG22	2.03	0.41
1:N:105:VAL:CG1	1:N:157:ARG:HE	2.31	0.41
1:N:313:LEU:HD11	1:O:295:VAL:HG21	2.03	0.41
1:N:520:LYS:HZ1	1:O:479:GLU:CD	2.09	0.41
1:O:139:ILE:C	1:O:140:ILE:HG13	2.41	0.41
1:O:288:HIS:HD2	1:O:291:THR:HB	1.86	0.41
1:A:345:GLU:HG3	1:A:346:SER:H	1.86	0.41
1:B:215:ILE:HD12	1:B:215:ILE:HA	1.82	0.41
1:B:577:LEU:O	1:B:578:MET:HE2	2.21	0.41
1:C:132:VAL:HG22	1:C:142:ILE:HG23	2.03	0.41
1:C:140:ILE:HG21	1:C:156:ILE:HG21	2.02	0.41
1:C:246:TYR:HD1	1:C:293:SER:HB3	1.86	0.41
1:C:256:VAL:HG23	1:C:285:ILE:HG22	2.03	0.41
1:D:123:ILE:HG23	1:D:130:ASN:HB2	2.02	0.41
1:D:225:LEU:HD23	1:D:225:LEU:HA	1.74	0.41
1:E:177:ALA:HB3	1:E:208:GLU:HG3	2.00	0.41
1:F:345:GLU:HG3	1:F:346:SER:H	1.86	0.41
1:G:155:ILE:O	1:G:158:ARG:HB3	2.21	0.41
1:G:551:LYS:HB3	1:G:566:ARG:HG2	2.01	0.41
1:H:113:ARG:HD2	1:H:134:TYR:CD2	2.55	0.41
1:H:246:TYR:HD1	1:H:293:SER:HB3	1.86	0.41
1:H:256:VAL:HG13	1:H:257:GLU:N	2.36	0.41
1:H:506:ASN:OD1	1:H:519:ALA:HB3	2.21	0.41
1:H:551:LYS:HB3	1:H:566:ARG:HG2	2.01	0.41
1:H:577:LEU:O	1:H:578:MET:HE2	2.21	0.41
1:L:342:GLY:HA3	1:L:363:MET:HE1	2.03	0.41
1:O:166:GLU:HB3	1:O:167:ILE:H	1.67	0.41
1:O:178:ALA:O	1:O:181:VAL:HB	2.21	0.41
1:O:339:VAL:HB	1:O:564:LEU:O	2.20	0.41
1:A:139:ILE:HG22	1:A:140:ILE:N	2.27	0.41
1:A:140:ILE:HG21	1:A:156:ILE:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:VAL:HG21	1:O:313:LEU:HD11	2.03	0.41
1:B:246:TYR:HD1	1:B:293:SER:HB3	1.86	0.41
1:D:155:ILE:O	1:D:158:ARG:HB3	2.21	0.41
1:E:506:ASN:OD1	1:E:519:ALA:HB3	2.21	0.41
1:F:113:ARG:HD2	1:F:134:TYR:CD2	2.55	0.41
1:F:247:LEU:CD1	1:F:255:LEU:HD12	2.50	0.41
1:F:256:VAL:HG13	1:F:257:GLU:N	2.36	0.41
1:F:552:VAL:H	1:F:552:VAL:HG22	1.59	0.41
1:G:140:ILE:HG21	1:G:156:ILE:HG21	2.02	0.41
1:G:180:MET:HE2	1:G:213:ILE:HD11	2.01	0.41
1:G:215:ILE:HA	1:G:215:ILE:HD12	1.82	0.41
1:H:142:ILE:CG2	1:H:149:VAL:HG22	2.50	0.41
1:I:139:ILE:C	1:I:140:ILE:HG13	2.41	0.41
1:I:178:ALA:O	1:I:181:VAL:HB	2.21	0.41
1:I:181:VAL:HG12	1:I:185:GLU:OE2	2.20	0.41
1:I:288:HIS:HD2	1:I:291:THR:HB	1.86	0.41
1:I:345:GLU:HG3	1:I:346:SER:H	1.86	0.41
1:J:105:VAL:CG1	1:J:157:ARG:HE	2.32	0.41
1:J:142:ILE:CG2	1:J:149:VAL:HG22	2.50	0.41
1:J:155:ILE:O	1:J:158:ARG:HB3	2.21	0.41
1:J:288:HIS:HD2	1:J:291:THR:HB	1.86	0.41
1:J:506:ASN:OD1	1:J:519:ALA:HB3	2.21	0.41
1:J:539:GLY:CA	1:J:577:LEU:O	2.68	0.41
1:J:613:LYS:HG3	1:J:613:LYS:O	2.21	0.41
1:K:640:GLN:NE2	1:K:643:ILE:HG21	2.35	0.41
1:L:142:ILE:CG2	1:L:149:VAL:HG22	2.50	0.41
1:L:179:GLU:O	1:L:183:ILE:HG23	2.21	0.41
1:L:345:GLU:HG3	1:L:346:SER:H	1.86	0.41
1:L:613:LYS:HG3	1:L:613:LYS:O	2.21	0.41
1:L:640:GLN:NE2	1:L:643:ILE:HG21	2.35	0.41
1:M:123:ILE:HG23	1:M:130:ASN:HB2	2.02	0.41
1:M:313:LEU:HD11	1:N:295:VAL:HG21	2.03	0.41
1:M:613:LYS:HG3	1:M:613:LYS:O	2.21	0.41
1:M:640:GLN:NE2	1:M:643:ILE:HG21	2.35	0.41
1:O:123:ILE:HG23	1:O:130:ASN:HB2	2.02	0.41
1:O:359:ILE:HD13	1:O:422:LEU:HB2	2.03	0.41
1:O:539:GLY:CA	1:O:577:LEU:O	2.68	0.41
1:A:359:ILE:HD13	1:A:422:LEU:HB2	2.04	0.41
1:B:139:ILE:C	1:B:140:ILE:HG13	2.41	0.41
1:C:178:ALA:O	1:C:181:VAL:HB	2.21	0.41
1:C:345:GLU:HG3	1:C:346:SER:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:139:ILE:HG22	1:D:140:ILE:N	2.27	0.41
1:D:313:LEU:HD11	1:E:295:VAL:HG21	2.03	0.41
1:E:139:ILE:HG22	1:E:140:ILE:N	2.27	0.41
1:E:180:MET:HE3	1:E:180:MET:HB3	1.89	0.41
1:E:511:ASN:HA	1:E:512:GLY:HA2	1.60	0.41
1:E:640:GLN:NE2	1:E:643:ILE:HG21	2.36	0.41
1:F:123:ILE:HG23	1:F:130:ASN:HB2	2.02	0.41
1:G:524:ASN:OD1	1:H:449:SER:HB2	2.21	0.41
1:G:613:LYS:O	1:G:613:LYS:HG3	2.21	0.41
1:H:123:ILE:HG23	1:H:130:ASN:HB2	2.02	0.41
1:H:132:VAL:HG22	1:H:142:ILE:HG23	2.03	0.41
1:H:139:ILE:C	1:H:140:ILE:HG13	2.41	0.41
1:H:181:VAL:HG12	1:H:185:GLU:OE2	2.20	0.41
1:H:524:ASN:OD1	1:I:449:SER:HB2	2.21	0.41
1:I:256:VAL:HG13	1:I:257:GLU:N	2.36	0.41
1:I:506:ASN:OD1	1:I:519:ALA:HB3	2.21	0.41
1:I:524:ASN:OD1	1:J:449:SER:HB2	2.21	0.41
1:J:524:ASN:OD1	1:K:449:SER:HB2	2.21	0.41
1:K:140:ILE:HG21	1:K:156:ILE:HG21	2.02	0.41
1:K:155:ILE:O	1:K:158:ARG:HB3	2.21	0.41
1:K:179:GLU:O	1:K:183:ILE:HG23	2.21	0.41
1:K:215:ILE:HA	1:K:215:ILE:HD12	1.82	0.41
1:L:246:TYR:HD1	1:L:293:SER:HB3	1.86	0.41
1:M:179:GLU:O	1:M:183:ILE:HG23	2.21	0.41
1:N:339:VAL:HB	1:N:564:LEU:O	2.20	0.41
1:N:359:ILE:HD13	1:N:422:LEU:HB2	2.03	0.41
1:N:613:LYS:HG3	1:N:613:LYS:O	2.21	0.41
1:B:113:ARG:HD2	1:B:134:TYR:CD2	2.55	0.40
1:B:288:HIS:HD2	1:B:291:THR:HB	1.86	0.40
1:B:359:ILE:HD13	1:B:422:LEU:HB2	2.04	0.40
1:B:511:ASN:HA	1:B:512:GLY:HA2	1.59	0.40
1:C:139:ILE:C	1:C:140:ILE:HG13	2.41	0.40
1:D:99:GLU:O	1:D:145:ARG:HA	2.19	0.40
1:D:132:VAL:HG22	1:D:142:ILE:HG23	2.03	0.40
1:D:139:ILE:C	1:D:140:ILE:HG13	2.41	0.40
1:E:552:VAL:H	1:E:552:VAL:HG22	1.59	0.40
1:E:577:LEU:O	1:E:578:MET:HE2	2.21	0.40
1:G:113:ARG:HD2	1:G:134:TYR:CD2	2.55	0.40
1:G:123:ILE:HG23	1:G:130:ASN:HB2	2.02	0.40
1:G:177:ALA:HB3	1:G:208:GLU:HG3	2.00	0.40
1:G:640:GLN:NE2	1:G:643:ILE:HG21	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:132:VAL:HG22	1:I:142:ILE:HG23	2.03	0.40
1:I:155:ILE:O	1:I:158:ARG:HB3	2.21	0.40
1:M:552:VAL:H	1:M:552:VAL:HG22	1.59	0.40
1:N:640:GLN:NE2	1:N:643:ILE:HG21	2.36	0.40
1:N:643:ILE:HD12	1:N:643:ILE:HA	1.86	0.40
1:O:132:VAL:HG22	1:O:142:ILE:HG23	2.03	0.40
1:O:256:VAL:HG13	1:O:257:GLU:N	2.36	0.40
1:A:105:VAL:CG1	1:A:157:ARG:HE	2.32	0.40
1:A:139:ILE:C	1:A:140:ILE:HG13	2.41	0.40
1:A:155:ILE:O	1:A:158:ARG:HB3	2.21	0.40
1:A:612:GLU:CG	1:B:642:PHE:CE2	2.81	0.40
1:D:105:VAL:CG1	1:D:157:ARG:HE	2.32	0.40
1:D:178:ALA:O	1:D:181:VAL:HB	2.21	0.40
1:D:506:ASN:OD1	1:D:519:ALA:HB3	2.21	0.40
1:E:139:ILE:C	1:E:140:ILE:HG13	2.41	0.40
1:E:166:GLU:HB3	1:E:167:ILE:H	1.67	0.40
1:E:256:VAL:HG23	1:E:285:ILE:HG22	2.03	0.40
1:E:256:VAL:HG13	1:E:257:GLU:N	2.36	0.40
1:E:313:LEU:HD11	1:F:295:VAL:HG21	2.03	0.40
1:E:345:GLU:HG3	1:E:346:SER:H	1.86	0.40
1:E:643:ILE:HD12	1:E:643:ILE:HA	1.86	0.40
1:F:155:ILE:O	1:F:158:ARG:HB3	2.21	0.40
1:G:178:ALA:O	1:G:181:VAL:HB	2.21	0.40
1:G:246:TYR:HD1	1:G:293:SER:HB3	1.85	0.40
1:G:285:ILE:HD12	1:G:296:LEU:HD23	2.04	0.40
1:J:113:ARG:HD2	1:J:134:TYR:CD2	2.55	0.40
1:J:179:GLU:O	1:J:183:ILE:HG23	2.21	0.40
1:K:113:ARG:HD2	1:K:134:TYR:CD2	2.55	0.40
1:K:142:ILE:CG2	1:K:149:VAL:HG22	2.50	0.40
1:L:155:ILE:O	1:L:158:ARG:HB3	2.21	0.40
1:L:524:ASN:N	1:L:524:ASN:OD1	2.55	0.40
1:M:105:VAL:CG1	1:M:157:ARG:HE	2.31	0.40
1:M:359:ILE:HD13	1:M:422:LEU:HB2	2.03	0.40
1:N:123:ILE:HG23	1:N:130:ASN:HB2	2.02	0.40
1:N:179:GLU:O	1:N:183:ILE:HG23	2.21	0.40
1:B:140:ILE:HG21	1:B:156:ILE:HG21	2.02	0.40
1:B:155:ILE:O	1:B:158:ARG:HB3	2.21	0.40
1:G:132:VAL:HG22	1:G:142:ILE:HG23	2.03	0.40
1:G:142:ILE:CG2	1:G:149:VAL:HG22	2.50	0.40
1:G:288:HIS:HD2	1:G:291:THR:HB	1.86	0.40
1:H:155:ILE:O	1:H:158:ARG:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:613:LYS:O	1:H:613:LYS:HG3	2.21	0.40
1:H:640:GLN:NE2	1:H:643:ILE:HG21	2.36	0.40
1:I:113:ARG:HD2	1:I:134:TYR:CD2	2.55	0.40
1:I:285:ILE:HD12	1:I:296:LEU:HD23	2.04	0.40
1:J:256:VAL:HG23	1:J:285:ILE:HG22	2.03	0.40
1:J:256:VAL:HG13	1:J:257:GLU:N	2.36	0.40
1:L:167:ILE:CA	1:L:215:ILE:O	2.42	0.40
1:M:345:GLU:HG3	1:M:346:SER:H	1.86	0.40
1:N:155:ILE:O	1:N:158:ARG:HB3	2.21	0.40
1:O:142:ILE:CG2	1:O:149:VAL:HG22	2.50	0.40
1:O:155:ILE:O	1:O:158:ARG:HB3	2.21	0.40
1:O:524:ASN:N	1:O:524:ASN:OD1	2.55	0.40
1:B:105:VAL:CG1	1:B:157:ARG:HE	2.32	0.40
1:B:142:ILE:CG2	1:B:149:VAL:HG22	2.50	0.40
1:B:256:VAL:HG23	1:B:285:ILE:HG22	2.03	0.40
1:B:539:GLY:CA	1:B:577:LEU:O	2.68	0.40
1:C:359:ILE:HD13	1:C:422:LEU:HB2	2.04	0.40
1:F:524:ASN:OD1	1:G:449:SER:HB2	2.21	0.40
1:H:178:ALA:O	1:H:181:VAL:HB	2.21	0.40
1:J:132:VAL:HG22	1:J:142:ILE:HG23	2.02	0.40
1:J:285:ILE:HD12	1:J:296:LEU:HD23	2.04	0.40
1:J:640:GLN:NE2	1:J:643:ILE:HG21	2.35	0.40
1:K:119:LEU:HD13	1:K:132:VAL:HG11	2.04	0.40
1:K:524:ASN:OD1	1:L:449:SER:HB2	2.21	0.40
1:L:360:GLY:O	1:L:364:ILE:HG12	2.22	0.40
1:M:155:ILE:O	1:M:158:ARG:HB3	2.21	0.40
1:M:360:GLY:O	1:M:364:ILE:HG12	2.22	0.40
1:O:613:LYS:HG3	1:O:613:LYS:O	2.21	0.40
1:O:640:GLN:NE2	1:O:643:ILE:HG21	2.35	0.40
1:A:539:GLY:CA	1:A:577:LEU:O	2.68	0.40
1:C:524:ASN:OD1	1:C:524:ASN:N	2.55	0.40
1:D:288:HIS:HD2	1:D:291:THR:HB	1.86	0.40
1:E:123:ILE:HG23	1:E:130:ASN:HB2	2.02	0.40
1:F:139:ILE:C	1:F:140:ILE:HG13	2.41	0.40
1:F:285:ILE:HD12	1:F:296:LEU:HD23	2.03	0.40
1:F:313:LEU:HD11	1:G:295:VAL:HG21	2.03	0.40
1:G:360:GLY:O	1:G:364:ILE:HG12	2.22	0.40
1:H:179:GLU:O	1:H:183:ILE:HG23	2.21	0.40
1:H:285:ILE:HD12	1:H:296:LEU:HD23	2.04	0.40
1:I:140:ILE:HG21	1:I:156:ILE:HG21	2.02	0.40
1:I:179:GLU:O	1:I:183:ILE:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:313:LEU:HD11	1:J:295:VAL:HG21	2.03	0.40
1:J:119:LEU:HD13	1:J:132:VAL:HG11	2.03	0.40
1:J:140:ILE:HG21	1:J:156:ILE:HG21	2.02	0.40
1:K:132:VAL:HG22	1:K:142:ILE:HG23	2.03	0.40
1:K:345:GLU:HG3	1:K:346:SER:H	1.86	0.40
1:K:506:ASN:OD1	1:K:519:ALA:HB3	2.21	0.40
1:L:119:LEU:HD13	1:L:132:VAL:HG11	2.03	0.40
1:L:359:ILE:HD13	1:L:422:LEU:HB2	2.03	0.40
1:M:119:LEU:HD13	1:M:132:VAL:HG11	2.03	0.40
1:M:524:ASN:OD1	1:M:524:ASN:N	2.55	0.40
1:N:119:LEU:HD13	1:N:132:VAL:HG11	2.03	0.40
1:N:523:LEU:HD22	1:N:538:GLY:HA3	2.04	0.40
1:N:524:ASN:OD1	1:N:524:ASN:N	2.55	0.40
1:O:256:VAL:HG23	1:O:285:ILE:HG22	2.03	0.40
1:O:523:LEU:HD22	1:O:538:GLY:HA3	2.04	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	486/650 (75%)	462 (95%)	23 (5%)	1 (0%)	47 77
1	B	486/650 (75%)	461 (95%)	24 (5%)	1 (0%)	47 77
1	C	486/650 (75%)	462 (95%)	23 (5%)	1 (0%)	47 77
1	D	486/650 (75%)	461 (95%)	24 (5%)	1 (0%)	47 77
1	E	486/650 (75%)	461 (95%)	24 (5%)	1 (0%)	47 77
1	F	486/650 (75%)	462 (95%)	23 (5%)	1 (0%)	47 77
1	G	486/650 (75%)	461 (95%)	24 (5%)	1 (0%)	47 77
1	H	486/650 (75%)	462 (95%)	23 (5%)	1 (0%)	47 77

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	I	486/650 (75%)	462 (95%)	23 (5%)	1 (0%)	47 77
1	J	486/650 (75%)	462 (95%)	23 (5%)	1 (0%)	47 77
1	K	486/650 (75%)	462 (95%)	23 (5%)	1 (0%)	47 77
1	L	486/650 (75%)	462 (95%)	23 (5%)	1 (0%)	47 77
1	M	486/650 (75%)	462 (95%)	23 (5%)	1 (0%)	47 77
1	N	486/650 (75%)	462 (95%)	23 (5%)	1 (0%)	47 77
1	O	486/650 (75%)	461 (95%)	24 (5%)	1 (0%)	47 77
All	All	7290/9750 (75%)	6925 (95%)	350 (5%)	15 (0%)	50 77

All (15) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	I	181	VAL
1	M	181	VAL
1	A	181	VAL
1	B	181	VAL
1	C	181	VAL
1	D	181	VAL
1	E	181	VAL
1	F	181	VAL
1	G	181	VAL
1	H	181	VAL
1	J	181	VAL
1	K	181	VAL
1	L	181	VAL
1	N	181	VAL
1	O	181	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	415/550 (76%)	415 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	415/550 (76%)	415 (100%)	0	100	100
1	C	415/550 (76%)	415 (100%)	0	100	100
1	D	415/550 (76%)	415 (100%)	0	100	100
1	E	415/550 (76%)	415 (100%)	0	100	100
1	F	415/550 (76%)	415 (100%)	0	100	100
1	G	415/550 (76%)	415 (100%)	0	100	100
1	H	415/550 (76%)	415 (100%)	0	100	100
1	I	415/550 (76%)	415 (100%)	0	100	100
1	J	415/550 (76%)	415 (100%)	0	100	100
1	K	415/550 (76%)	415 (100%)	0	100	100
1	L	415/550 (76%)	415 (100%)	0	100	100
1	M	415/550 (76%)	415 (100%)	0	100	100
1	N	415/550 (76%)	415 (100%)	0	100	100
1	O	415/550 (76%)	415 (100%)	0	100	100
All	All	6225/8250 (76%)	6225 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (150) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	125	ASN
1	A	138	ASN
1	A	288	HIS
1	A	300	GLN
1	A	340	GLN
1	A	354	ASN
1	A	424	ASN
1	A	428	ASN
1	A	502	GLN
1	A	640	GLN
1	B	125	ASN
1	B	138	ASN
1	B	288	HIS
1	B	300	GLN
1	B	340	GLN
1	B	354	ASN

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Mol	Chain	Res	Type
1	B	424	ASN
1	B	428	ASN
1	B	502	GLN
1	B	640	GLN
1	C	125	ASN
1	C	138	ASN
1	C	288	HIS
1	C	300	GLN
1	C	340	GLN
1	C	354	ASN
1	C	424	ASN
1	C	428	ASN
1	C	502	GLN
1	C	640	GLN
1	D	125	ASN
1	D	138	ASN
1	D	288	HIS
1	D	300	GLN
1	D	340	GLN
1	D	354	ASN
1	D	424	ASN
1	D	428	ASN
1	D	502	GLN
1	D	640	GLN
1	E	125	ASN
1	E	138	ASN
1	E	288	HIS
1	E	300	GLN
1	E	340	GLN
1	E	354	ASN
1	E	424	ASN
1	E	428	ASN
1	E	502	GLN
1	E	640	GLN
1	F	125	ASN
1	F	138	ASN
1	F	288	HIS
1	F	300	GLN
1	F	340	GLN
1	F	354	ASN
1	F	424	ASN
1	F	428	ASN

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Mol	Chain	Res	Type
1	F	502	GLN
1	F	640	GLN
1	G	125	ASN
1	G	138	ASN
1	G	288	HIS
1	G	300	GLN
1	G	340	GLN
1	G	354	ASN
1	G	424	ASN
1	G	428	ASN
1	G	502	GLN
1	G	640	GLN
1	H	125	ASN
1	H	138	ASN
1	H	288	HIS
1	H	300	GLN
1	H	340	GLN
1	H	354	ASN
1	H	424	ASN
1	H	428	ASN
1	H	502	GLN
1	H	640	GLN
1	I	125	ASN
1	I	138	ASN
1	I	288	HIS
1	I	300	GLN
1	I	340	GLN
1	I	354	ASN
1	I	424	ASN
1	I	428	ASN
1	I	502	GLN
1	I	640	GLN
1	J	125	ASN
1	J	138	ASN
1	J	288	HIS
1	J	300	GLN
1	J	340	GLN
1	J	354	ASN
1	J	424	ASN
1	J	428	ASN
1	J	502	GLN
1	J	640	GLN

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Mol	Chain	Res	Type
1	K	125	ASN
1	K	138	ASN
1	K	288	HIS
1	K	300	GLN
1	K	340	GLN
1	K	354	ASN
1	K	424	ASN
1	K	428	ASN
1	K	502	GLN
1	K	640	GLN
1	L	125	ASN
1	L	138	ASN
1	L	288	HIS
1	L	300	GLN
1	L	340	GLN
1	L	354	ASN
1	L	424	ASN
1	L	428	ASN
1	L	502	GLN
1	L	640	GLN
1	M	125	ASN
1	M	138	ASN
1	M	288	HIS
1	M	300	GLN
1	M	340	GLN
1	M	354	ASN
1	M	424	ASN
1	M	428	ASN
1	M	502	GLN
1	M	640	GLN
1	N	125	ASN
1	N	138	ASN
1	N	288	HIS
1	N	300	GLN
1	N	340	GLN
1	N	354	ASN
1	N	424	ASN
1	N	428	ASN
1	N	502	GLN
1	N	640	GLN
1	O	125	ASN
1	O	138	ASN

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Mol	Chain	Res	Type
1	O	288	HIS
1	O	300	GLN
1	O	340	GLN
1	O	354	ASN
1	O	424	ASN
1	O	428	ASN
1	O	502	GLN
1	O	640	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

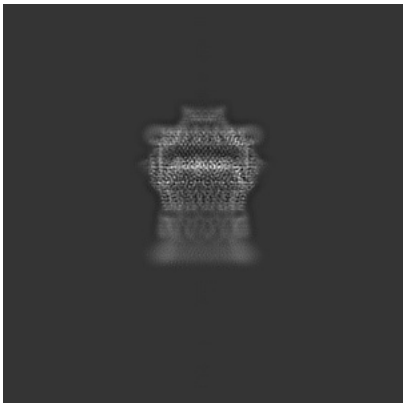
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-6676. These allow visual inspection of the internal detail of the map and identification of artifacts.

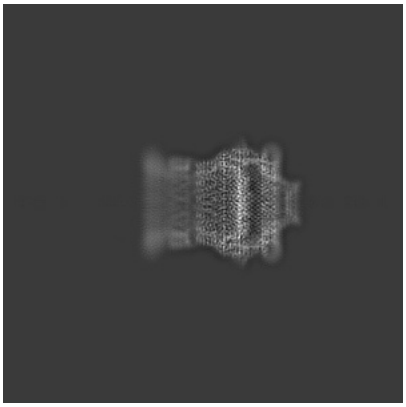
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

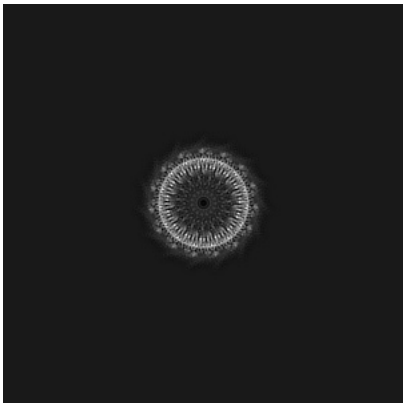
6.1.1 Primary map



X



Y

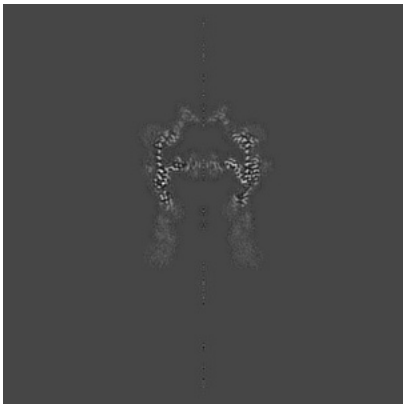


Z

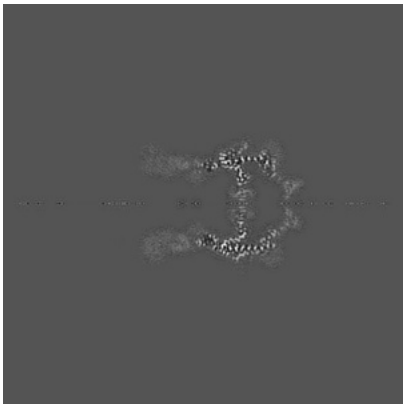
The images above show the map projected in three orthogonal directions.

6.2 Central slices

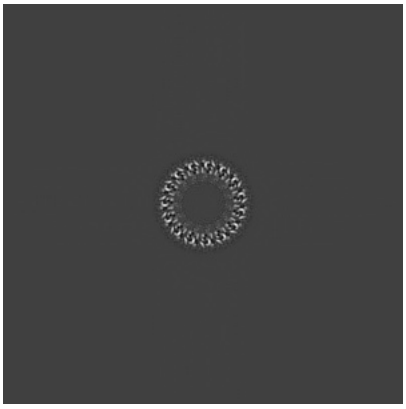
6.2.1 Primary map



X Index: 190



Y Index: 190

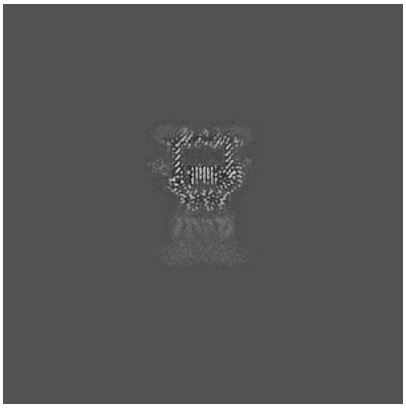


Z Index: 190

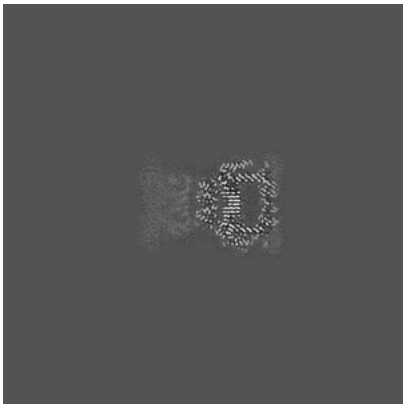
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

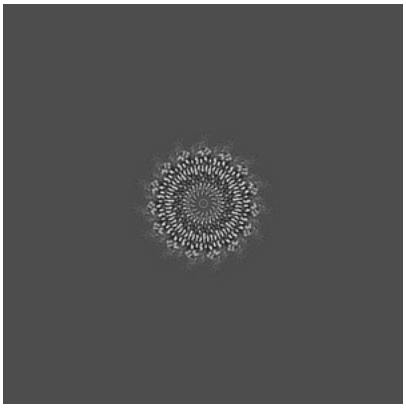
6.3.1 Primary map



X Index: 224



Y Index: 224



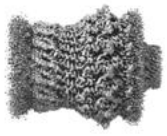
Z Index: 224

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

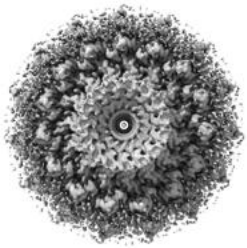
6.4 Orthogonal surface views (i)

6.4.1 Primary map

X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

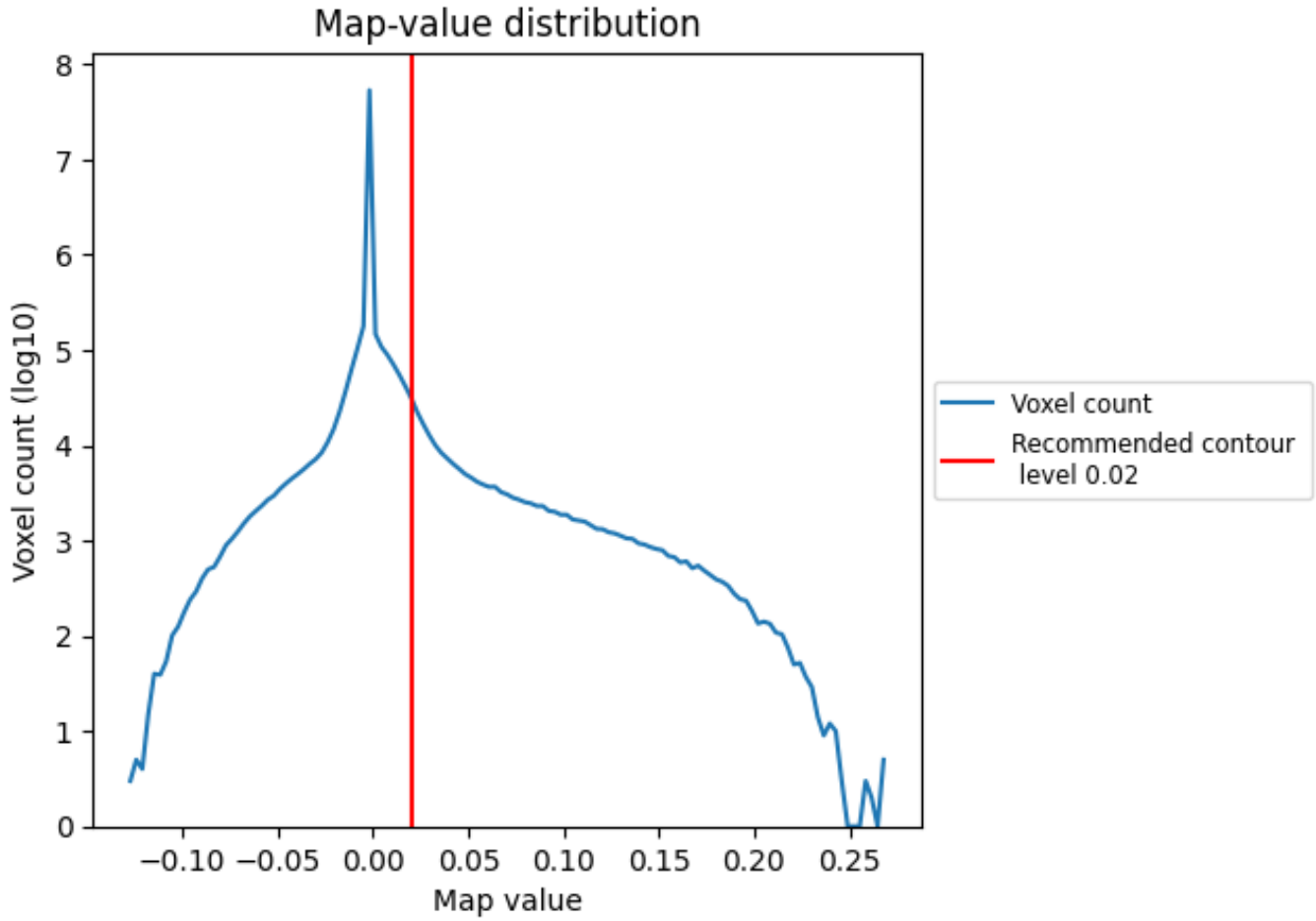
6.5 Mask visualisation (i)

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

7 Map analysis

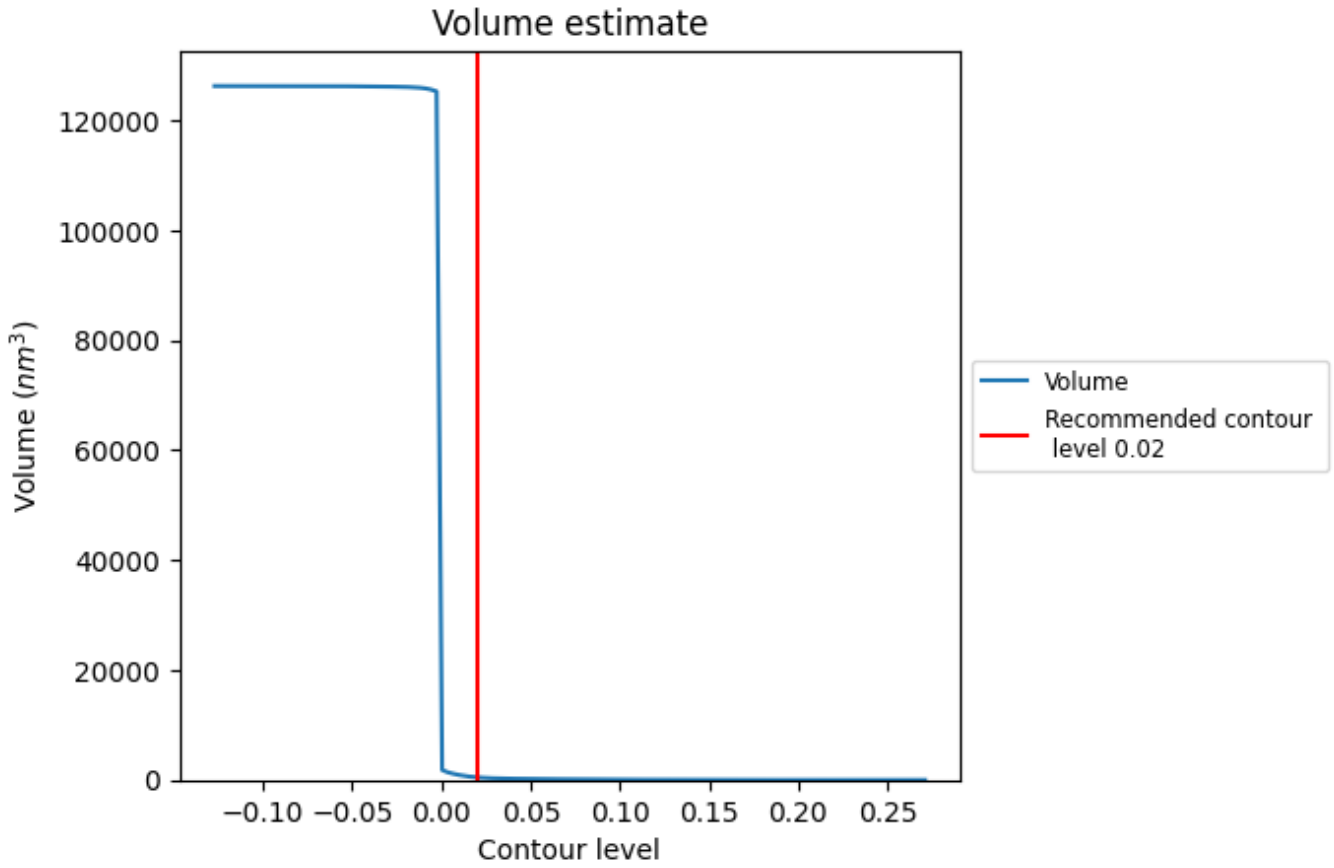
This section contains the results of statistical analysis of the map.

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.

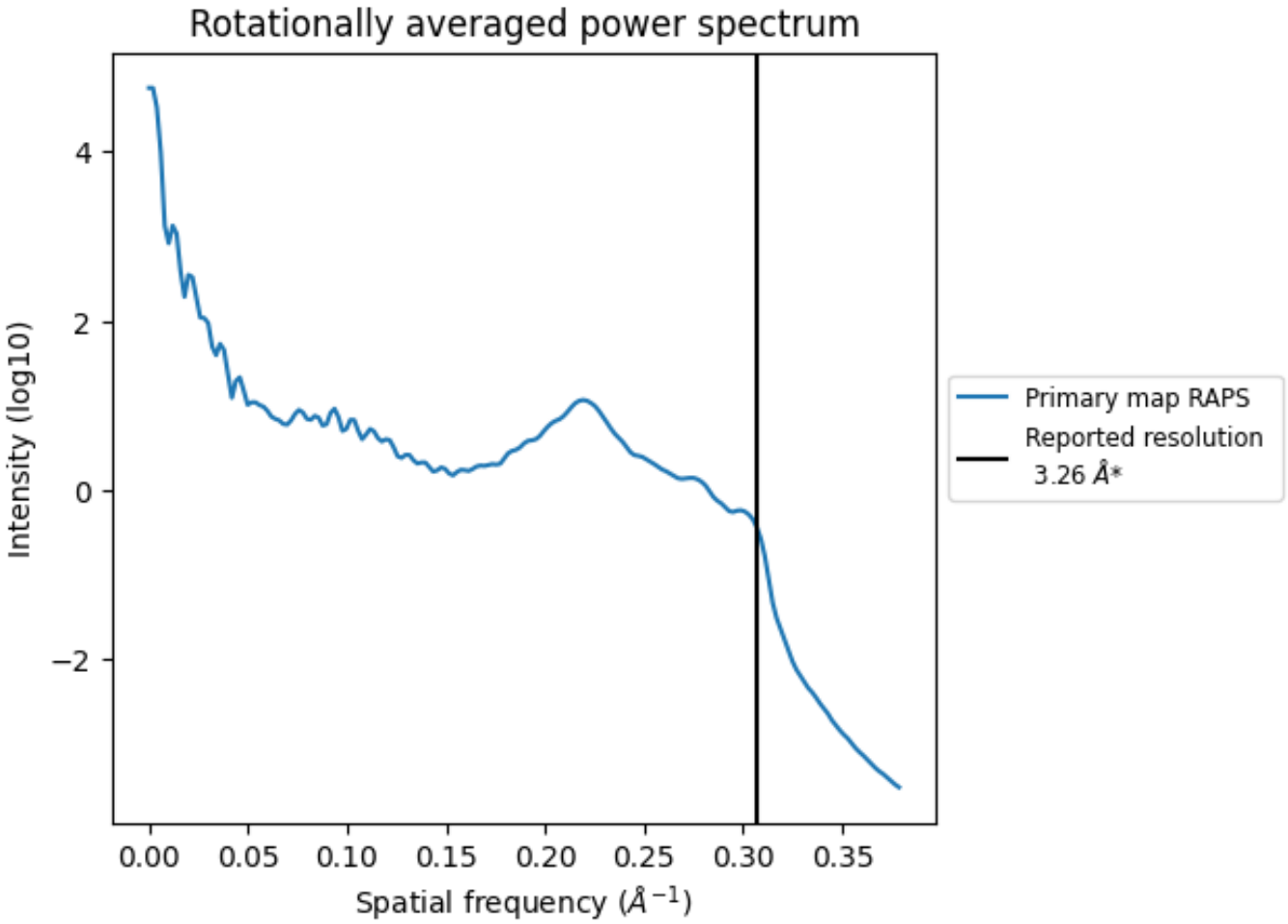
7.2 Volume estimate



The volume at the recommended contour level is 471 nm^3; this corresponds to an approximate mass of 426 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 0.307 Å^{-1}

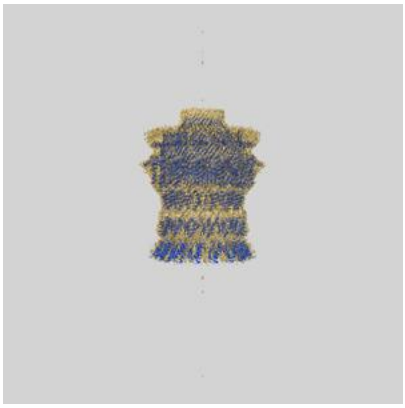
8 Fourier-Shell correlation

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

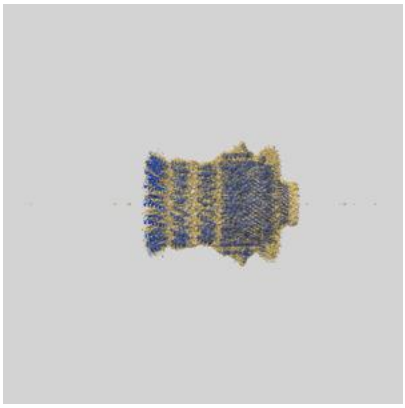
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-6676 and PDB model 5WQ8. Per-residue inclusion information can be found in section 3 on page 5.

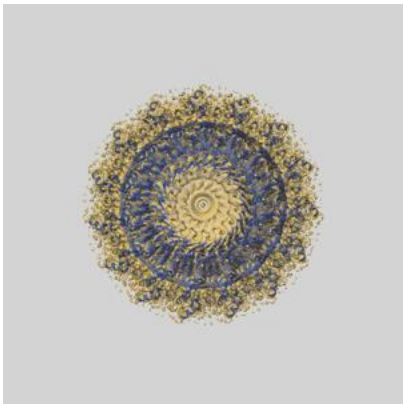
9.1 Map-model overlay



X



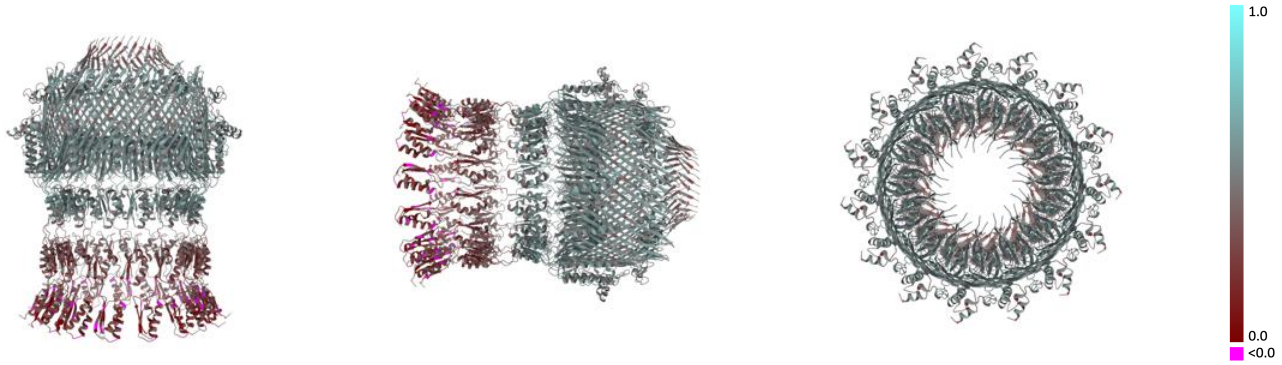
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.02 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

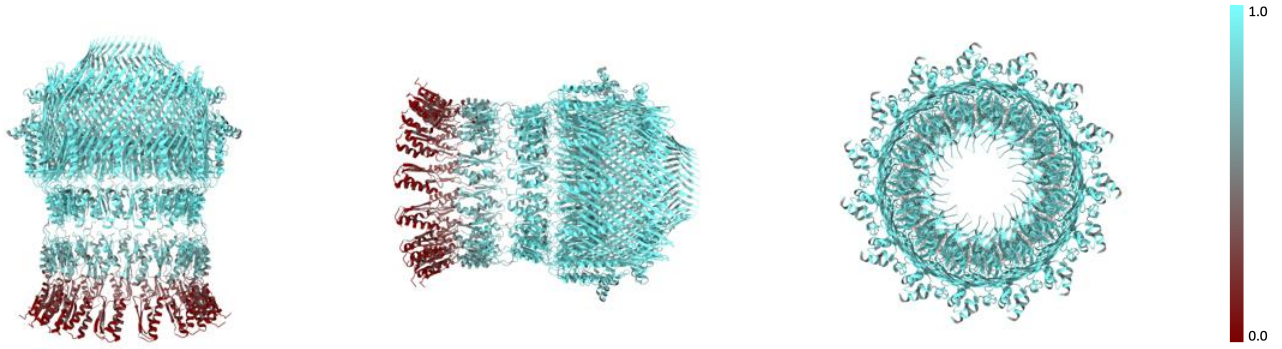
9.2 Q-score mapped to coordinate model (i)



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.

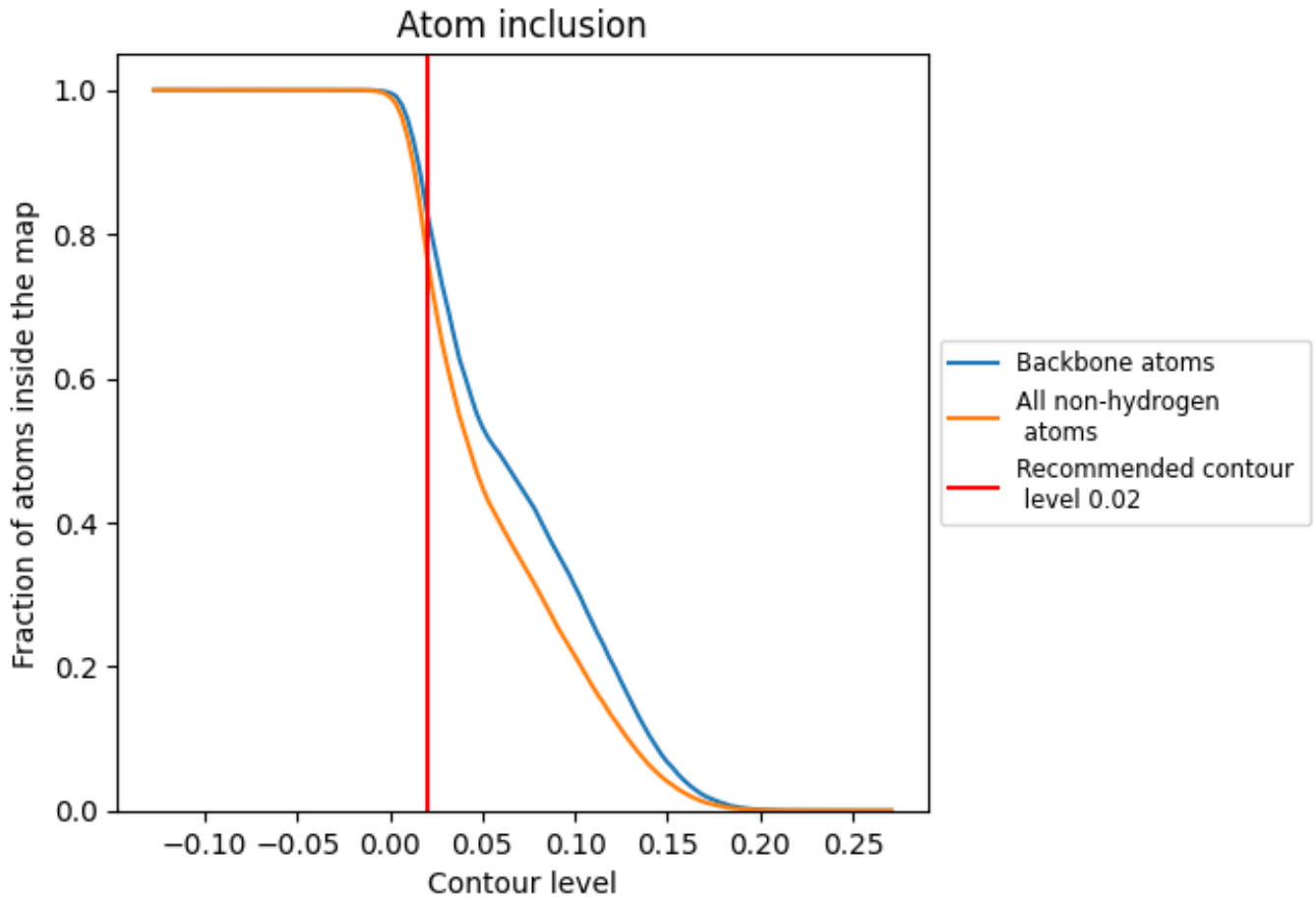
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.02).

9.4 Atom inclusion (i)



At the recommended contour level, 83% of all backbone atoms, 77% 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 (0.02) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7715	0.4580
A	0.7732	0.4580
B	0.7718	0.4570
C	0.7694	0.4580
D	0.7732	0.4580
E	0.7691	0.4580
F	0.7721	0.4580
G	0.7696	0.4580
H	0.7680	0.4590
I	0.7732	0.4580
J	0.7745	0.4590
K	0.7742	0.4600
L	0.7721	0.4590
M	0.7705	0.4590
N	0.7718	0.4590
O	0.7705	0.4580