wwPDB EM Map/Model Validation Report (i)

Jun 23, 2016 – 07:37 PM EDT

PDB ID	:	5FZ2
EMDB ID:	:	EMD-3362
Title	:	Natively membrane-anchored full-length Herpes simplex virus 1 glycoprotein B
Authors	:	Zeev-Ben-Mordehai, T.; Vasishtan, D.; Duran, A.H.; Vollmer, B.; White, P.; Pandurangan, A.P.; Siebert, C.A.; Topf, M.; Grunewald, K.
Deposited on	:	2016-03-10
Resolution	:	23.00 Å(reported)
Based on PDB ID	:	2GUM

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could
stem from errors in the original structure(s) used in the fitting.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
http://wwpdb.org/validation/2016/EMValidationReportHelp

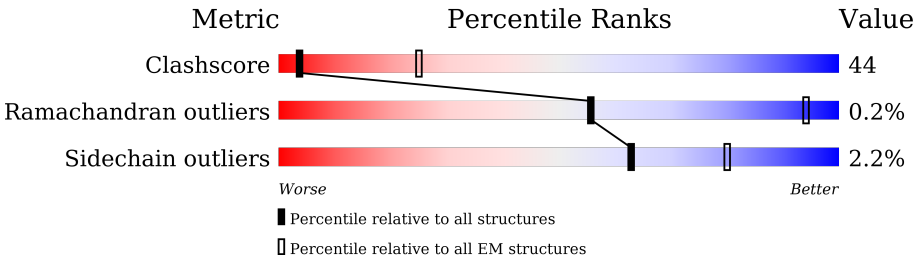
MolProbity	:	4.02b-467
Mogul	:	unknown
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP)	:	rb-20027790

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 23.00 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	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Mol	Chain	Length	Quality of chain
1	1-A	904	18% 18% • 63%
1	1-B	904	18% 18% • 63%
1	1-C	904	18% 18% • 63%
1	2-A	904	18% 18% • 63%
1	2-B	904	18% 18% • 63%
1	2-C	904	18% 18% • 63%
1	3-A	904	18% 19% • 63%
1	3-B	904	18% 19% • 63%
1	3-C	904	18% 19% • 63%

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Mol	Chain	Length	Quality of chain
1	4-A	904	18% 18% 63%
1	4-B	904	18% 18% 63%
1	4-C	904	18% 18% 63%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 32768 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 ENVELOPE GLYCOPROTEIN B.

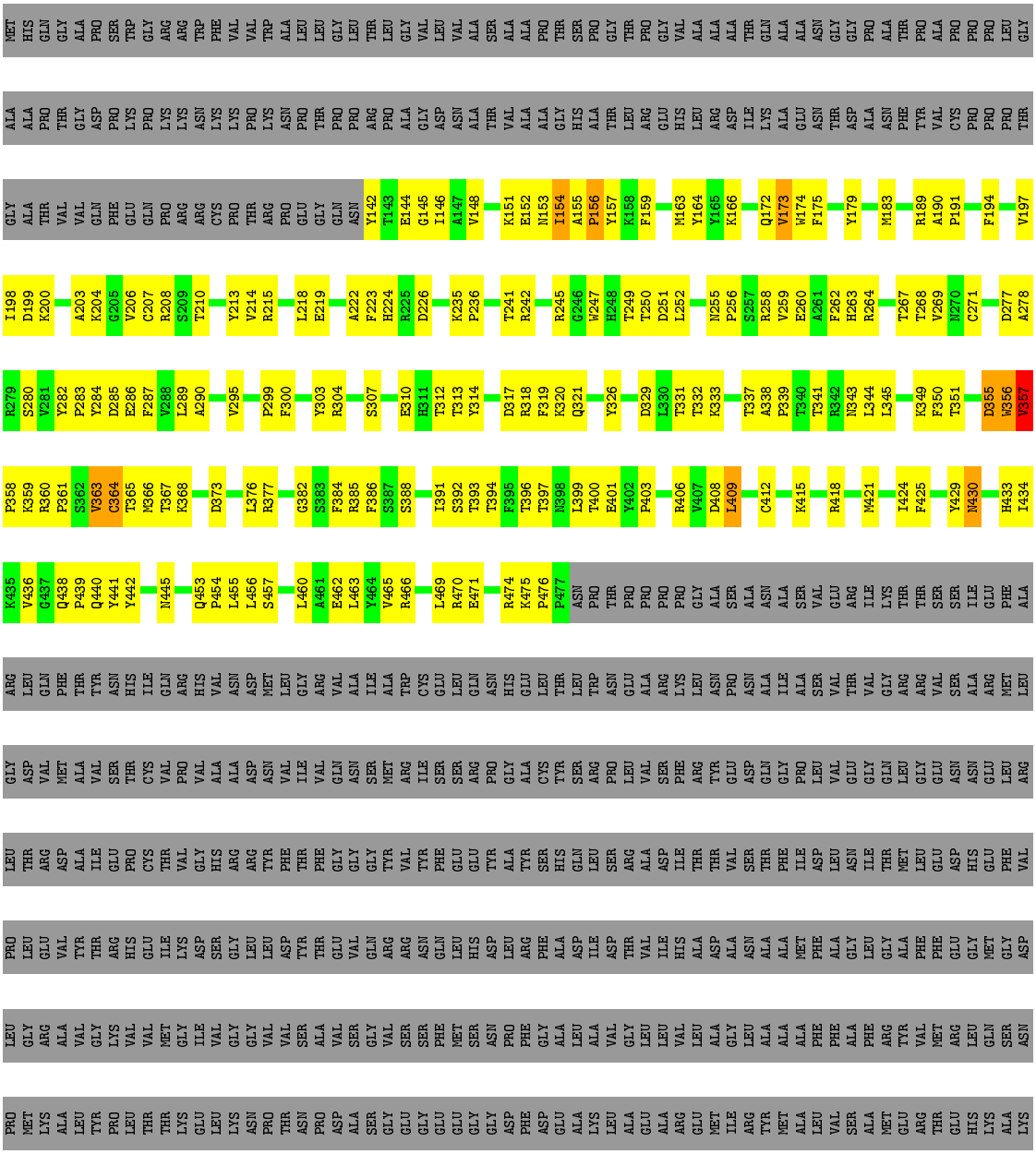
Mol	Chain	Residues	Atoms					AltConf	Trace
1	1-A	336	Total	C	N	O	S	0	1
			2728	1729	475	513	11		
1	2-A	336	Total	C	N	O	S	0	1
			2728	1729	475	513	11		
1	3-A	336	Total	C	N	O	S	0	1
			2728	1729	475	513	11		
1	4-A	336	Total	C	N	O	S	0	1
			2728	1729	475	513	11		
1	1-B	336	Total	C	N	O	S	0	1
			2732	1733	475	513	11		
1	2-B	336	Total	C	N	O	S	0	1
			2732	1733	475	513	11		
1	3-B	336	Total	C	N	O	S	0	1
			2732	1733	475	513	11		
1	4-B	336	Total	C	N	O	S	0	1
			2732	1733	475	513	11		
1	1-C	336	Total	C	N	O	S	0	1
			2732	1733	475	513	11		
1	2-C	336	Total	C	N	O	S	0	1
			2732	1733	475	513	11		
1	3-C	336	Total	C	N	O	S	0	1
			2732	1733	475	513	11		
1	4-C	336	Total	C	N	O	S	0	1
			2732	1733	475	513	11		

3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

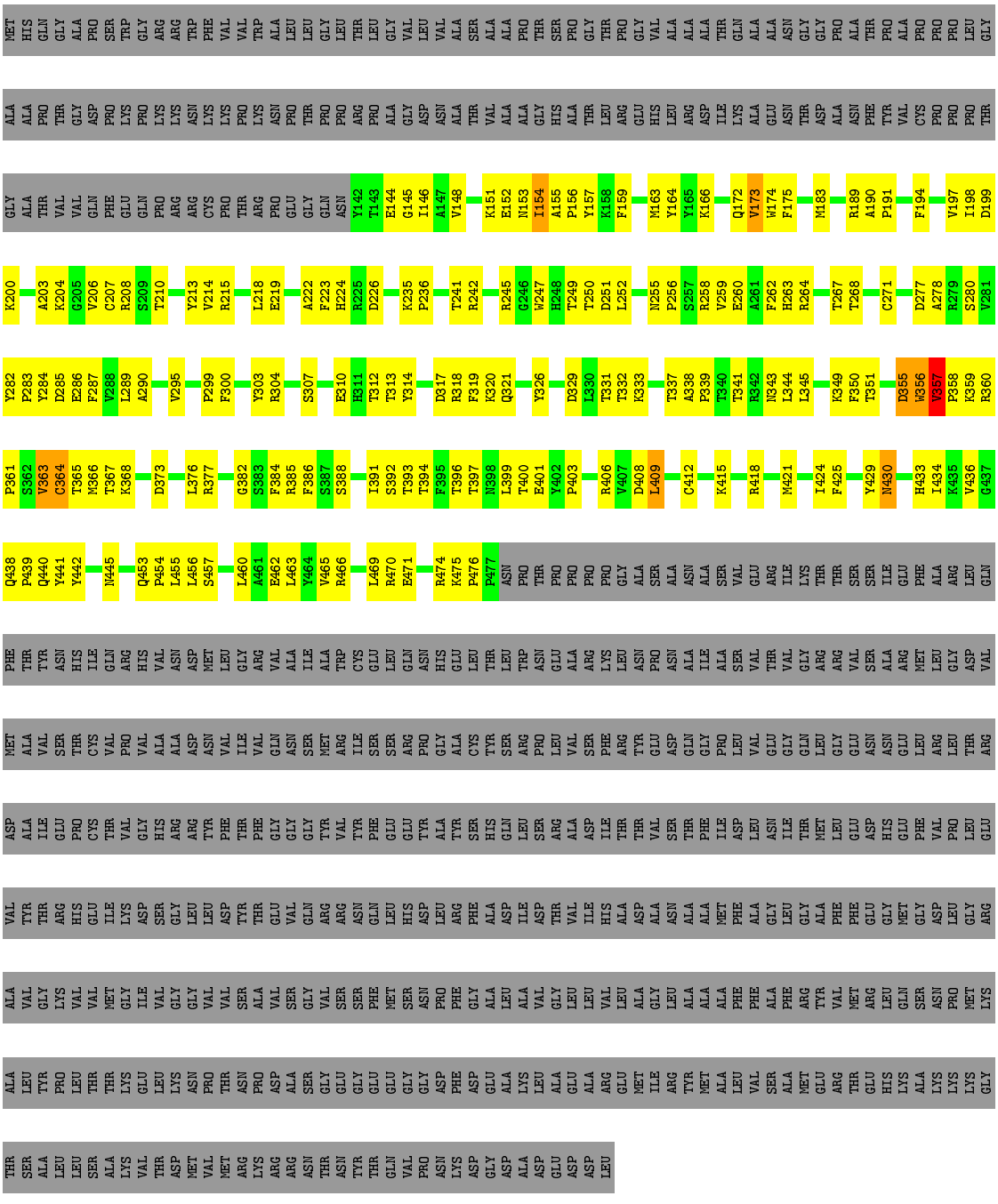
- Molecule 1: ENVELOPE GLYCOPROTEIN B

Chain 1-A: 18% 18% 63%



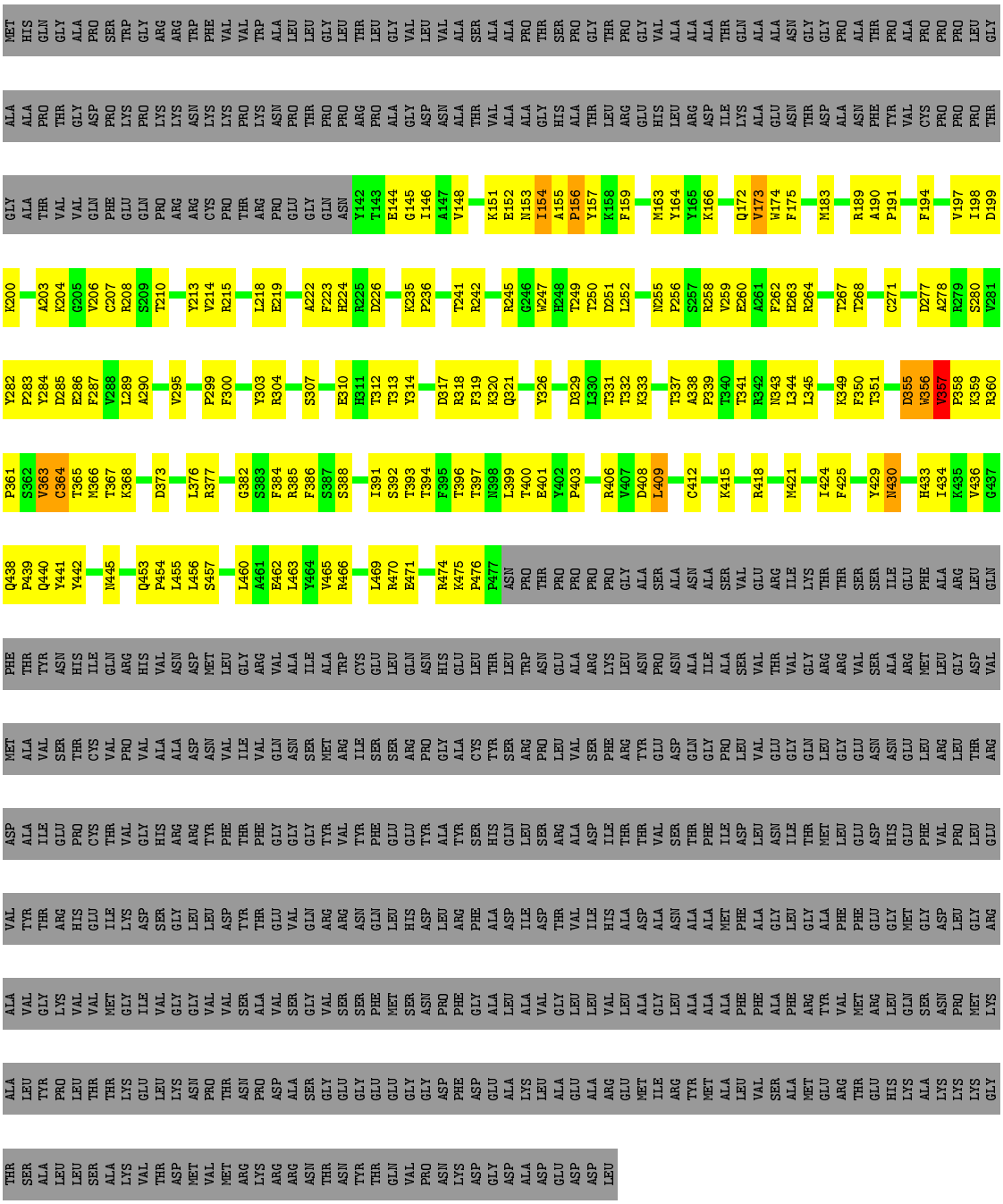
- Molecule 1: ENVELOPE GLYCOPROTEIN B

Chain 1-B:



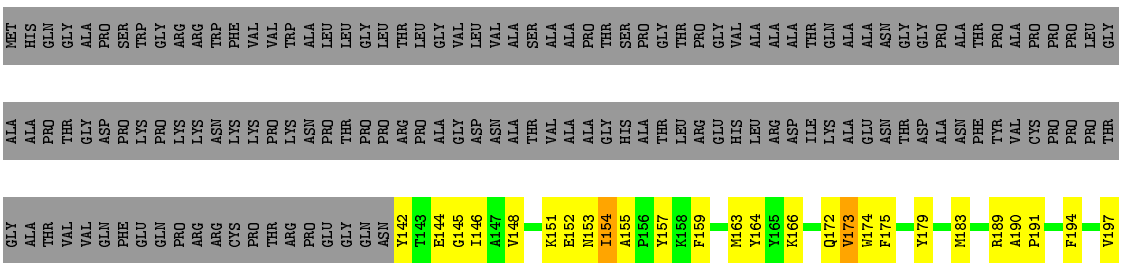
- Molecule 1: ENVELOPE GLYCOPROTEIN B

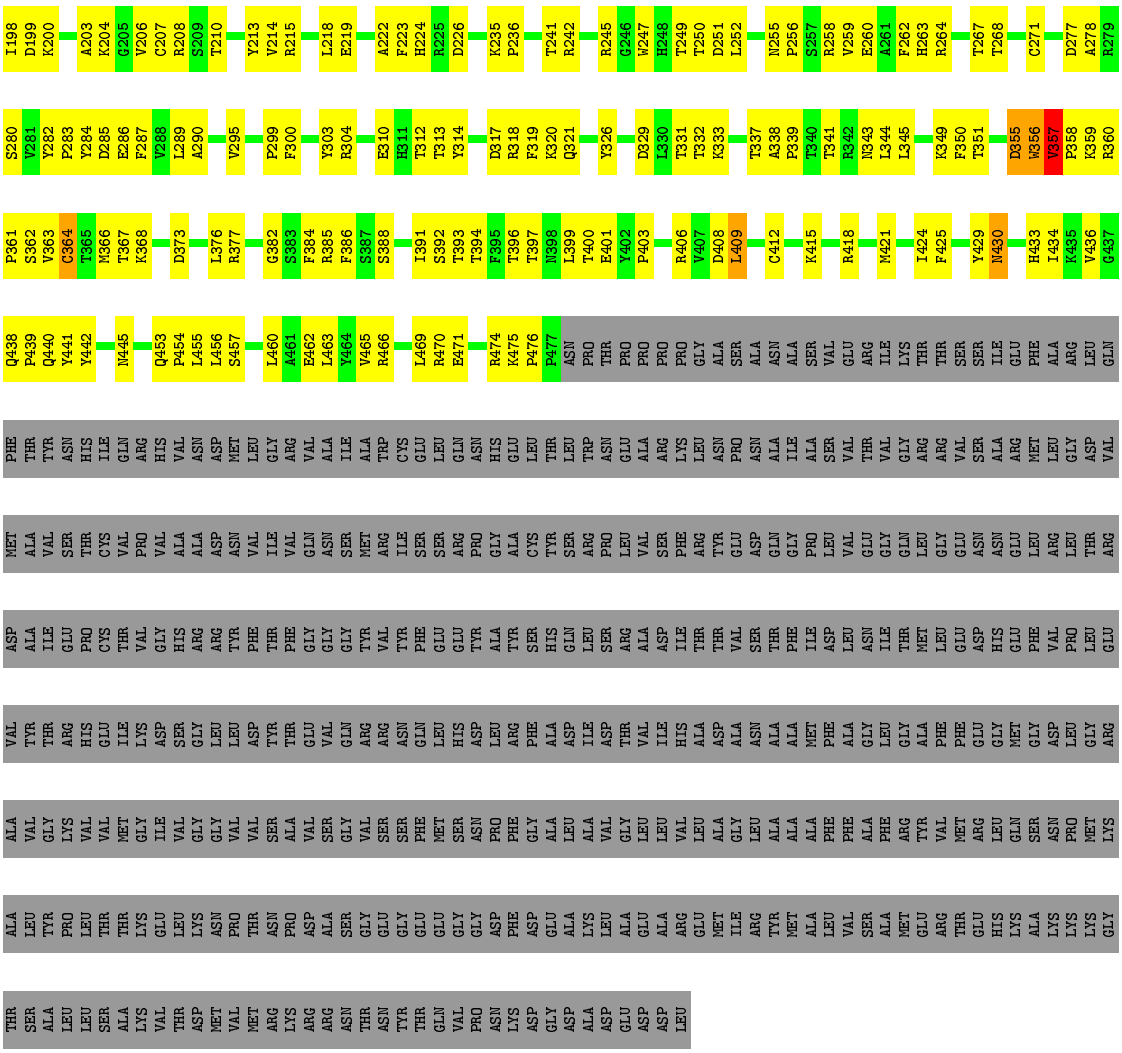
Chain 1-C:



• Molecule 1: ENVELOPE GLYCOPROTEIN B

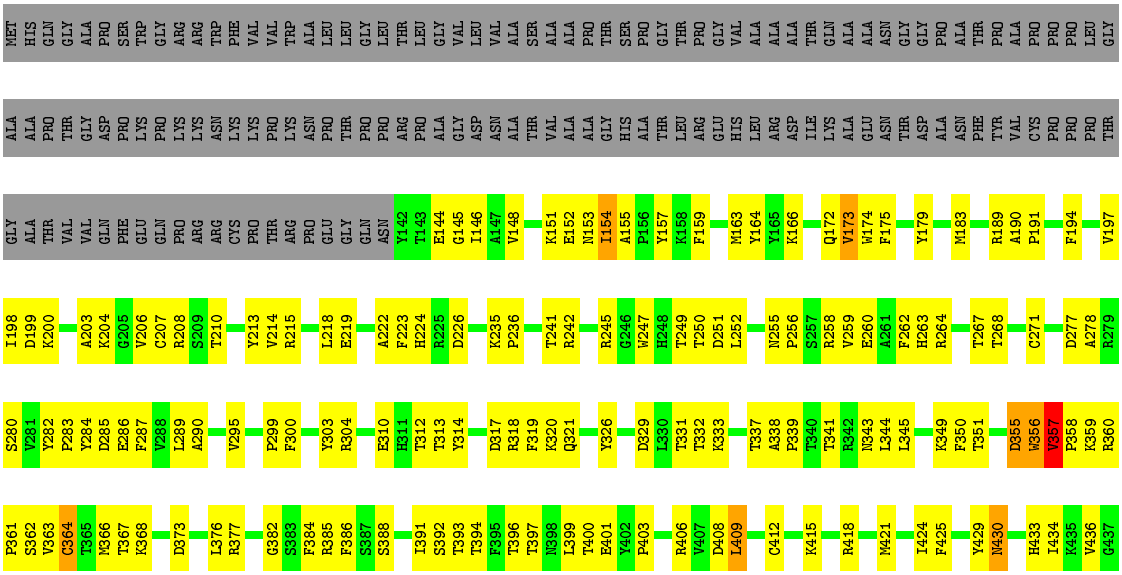
Chain 2-A: 18% 18% • 63%

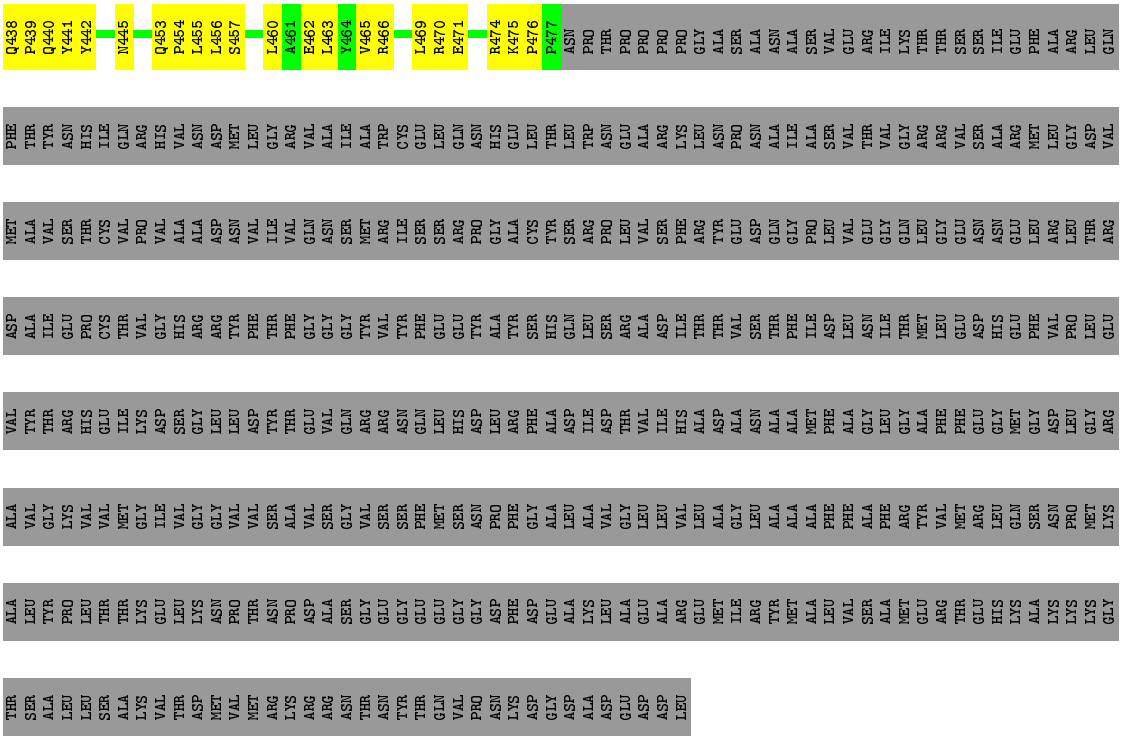




• Molecule 1: ENVELOPE GLYCOPROTEIN B

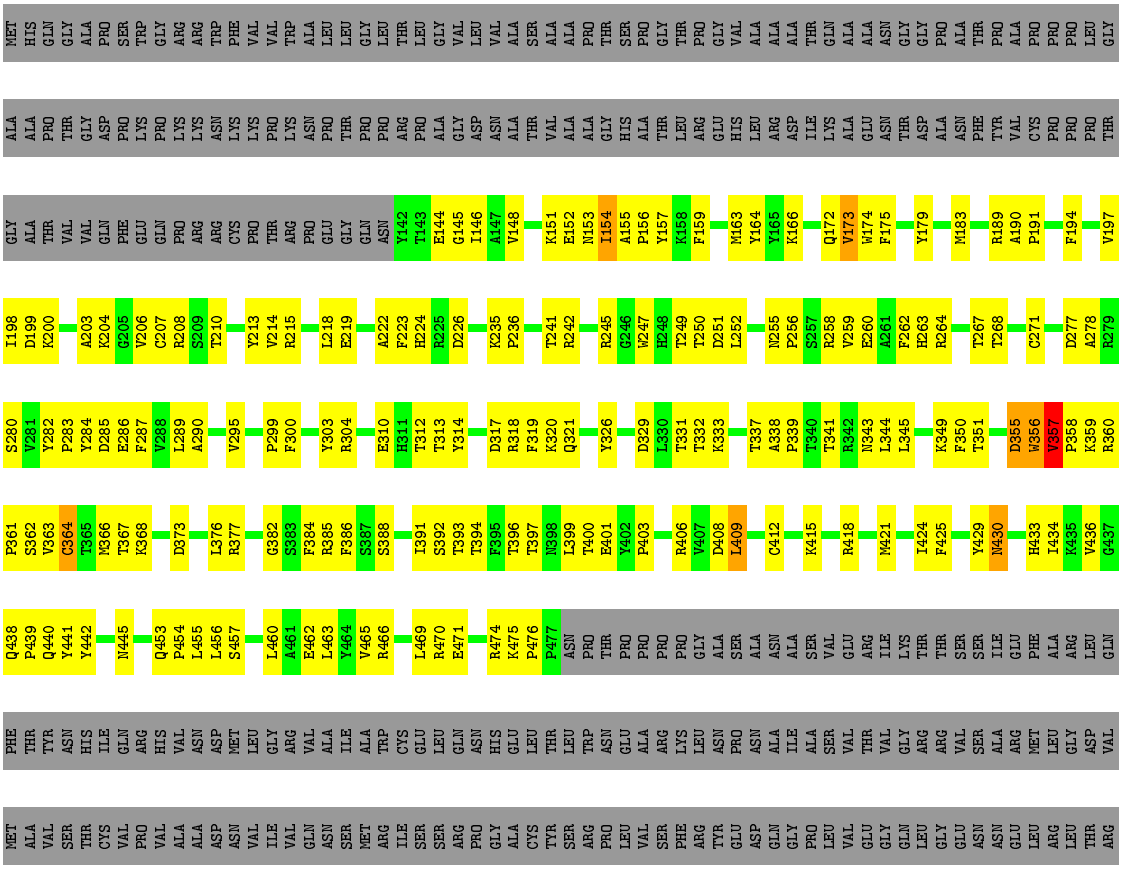
Chain 2-B: 18% 18% 63%

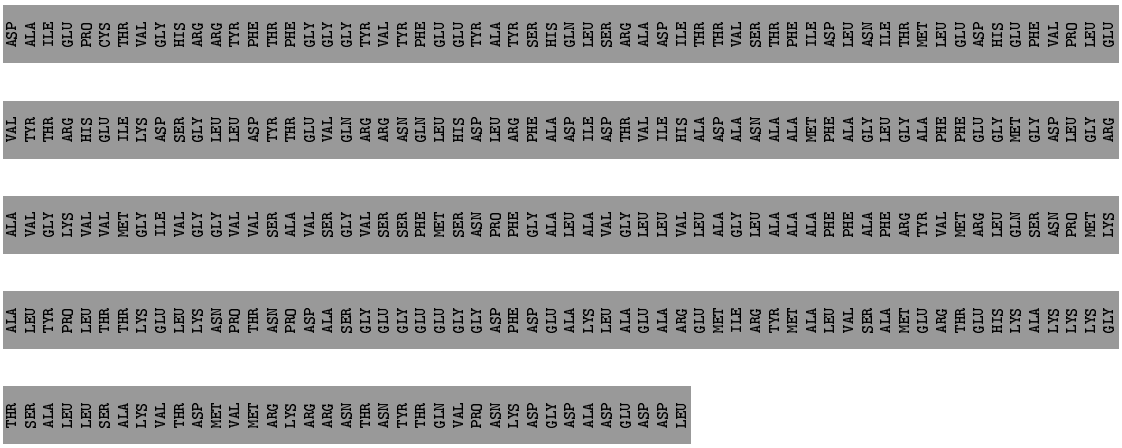




• Molecule 1: ENVELOPE GLYCOPROTEIN B

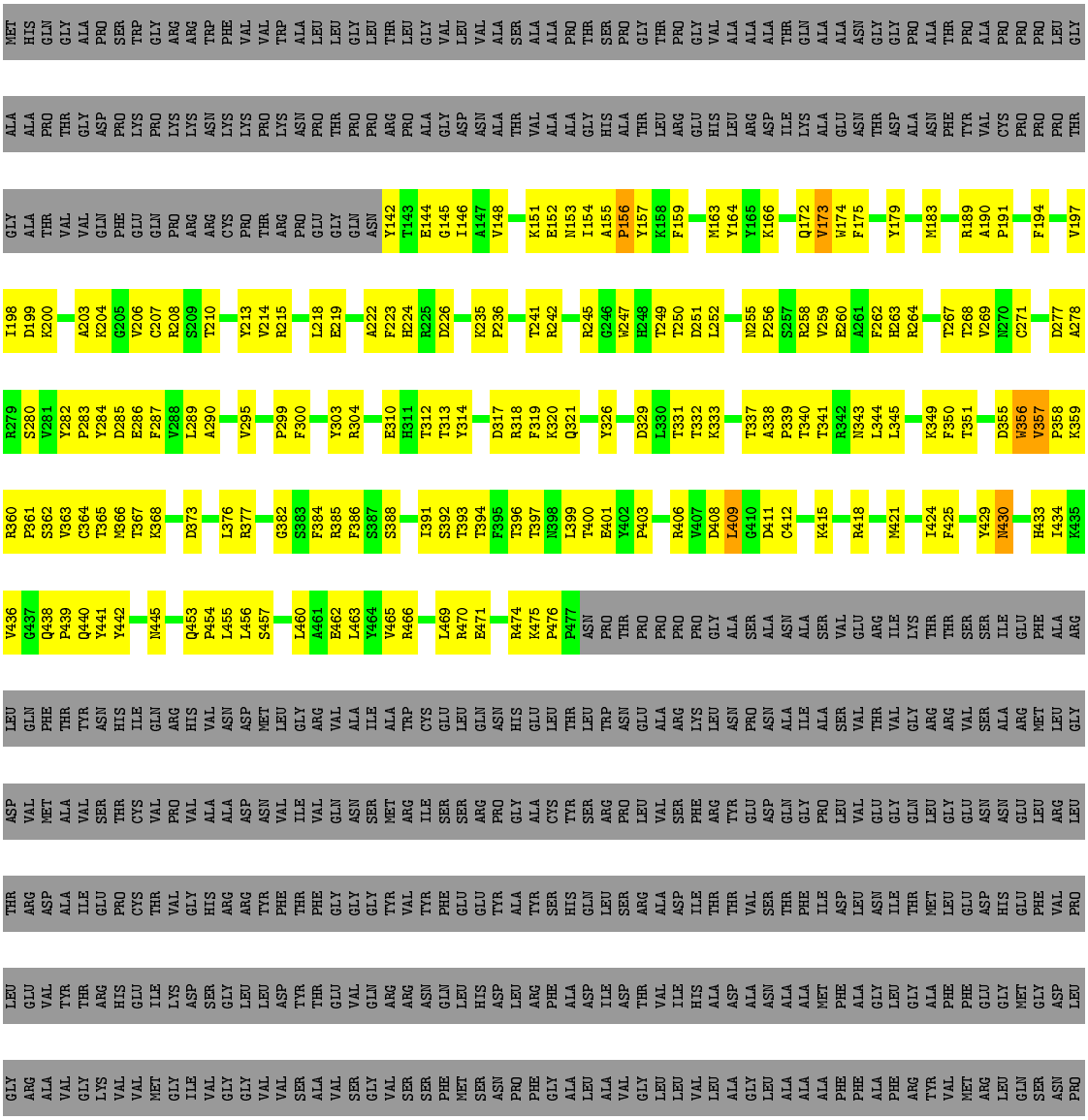
Chain 2-C:

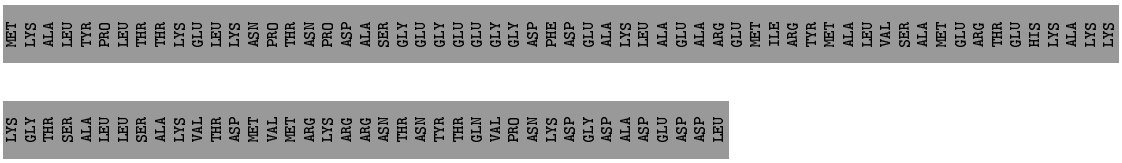




• Molecule 1: ENVELOPE GLYCOPROTEIN B

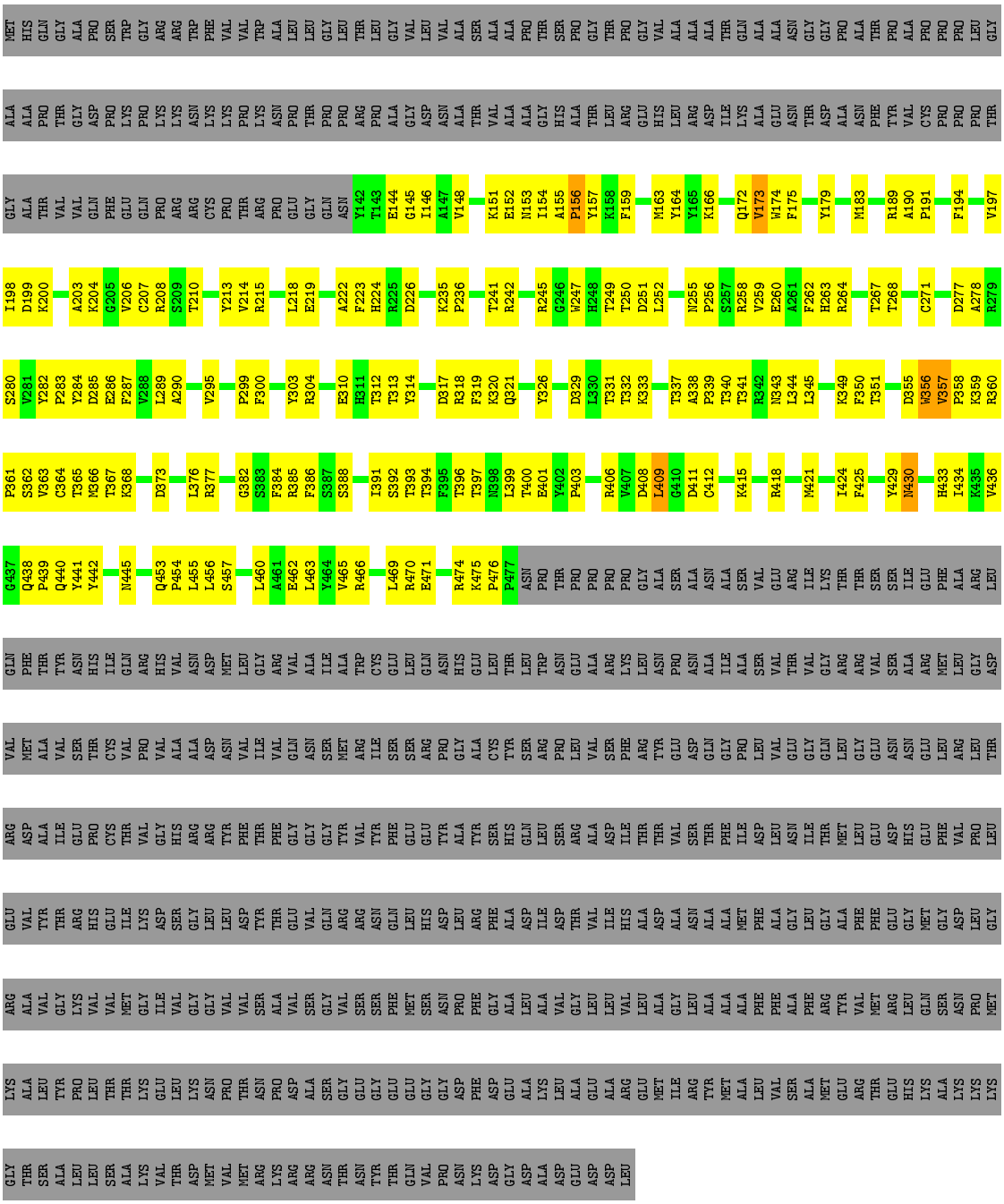
Chain 3-A:





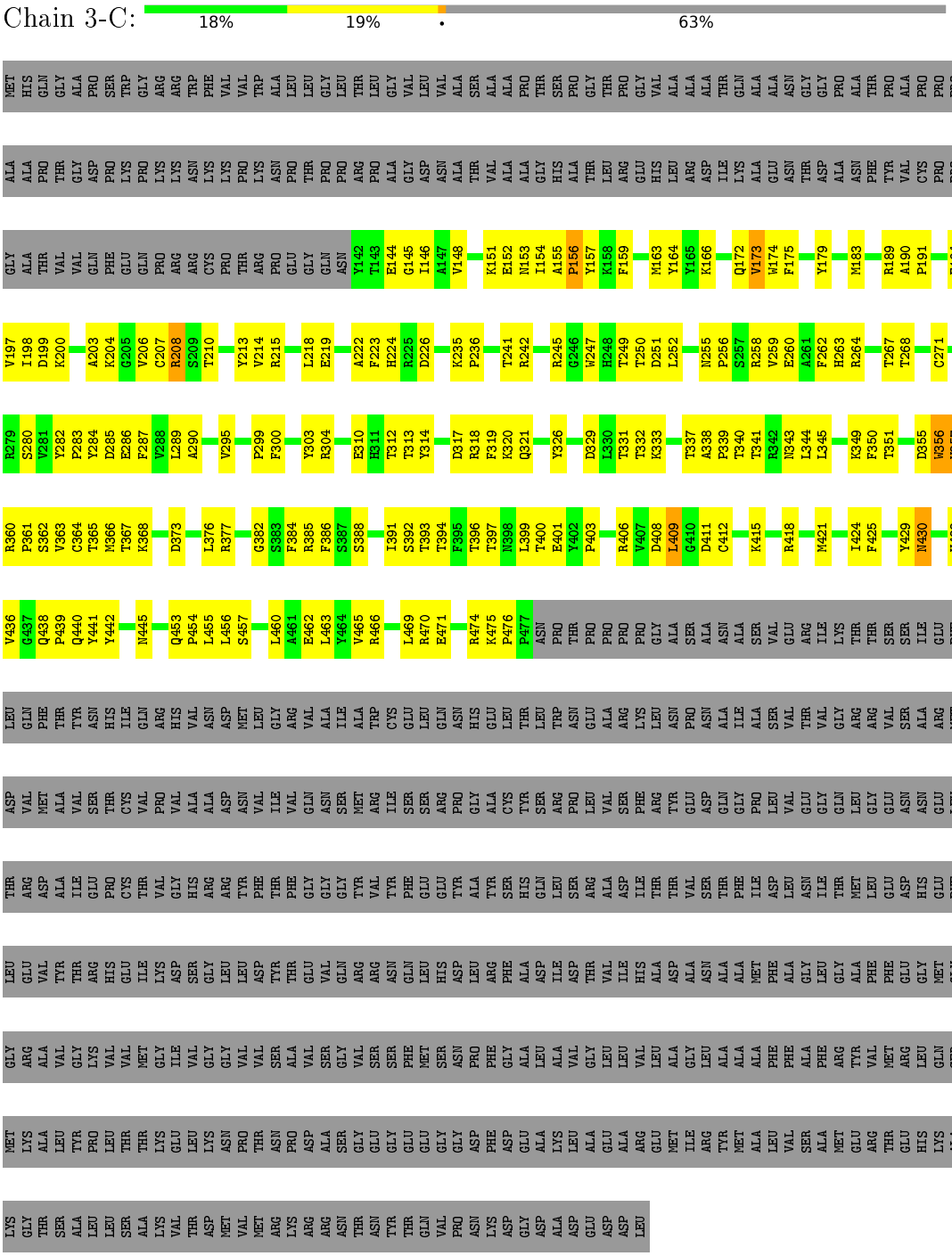
- Molecule 1: ENVELOPE GLYCOPROTEIN B

Chain 3-B:



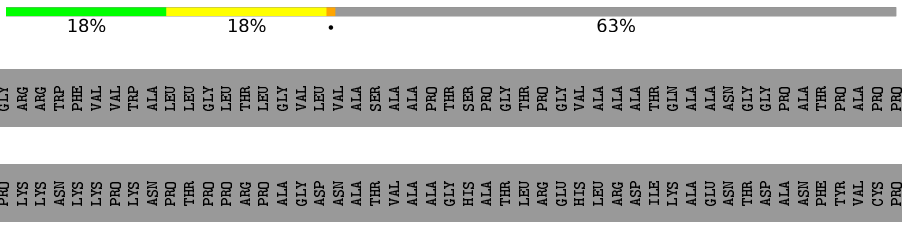
- Molecule 1: ENVELOPE GLYCOPROTEIN B

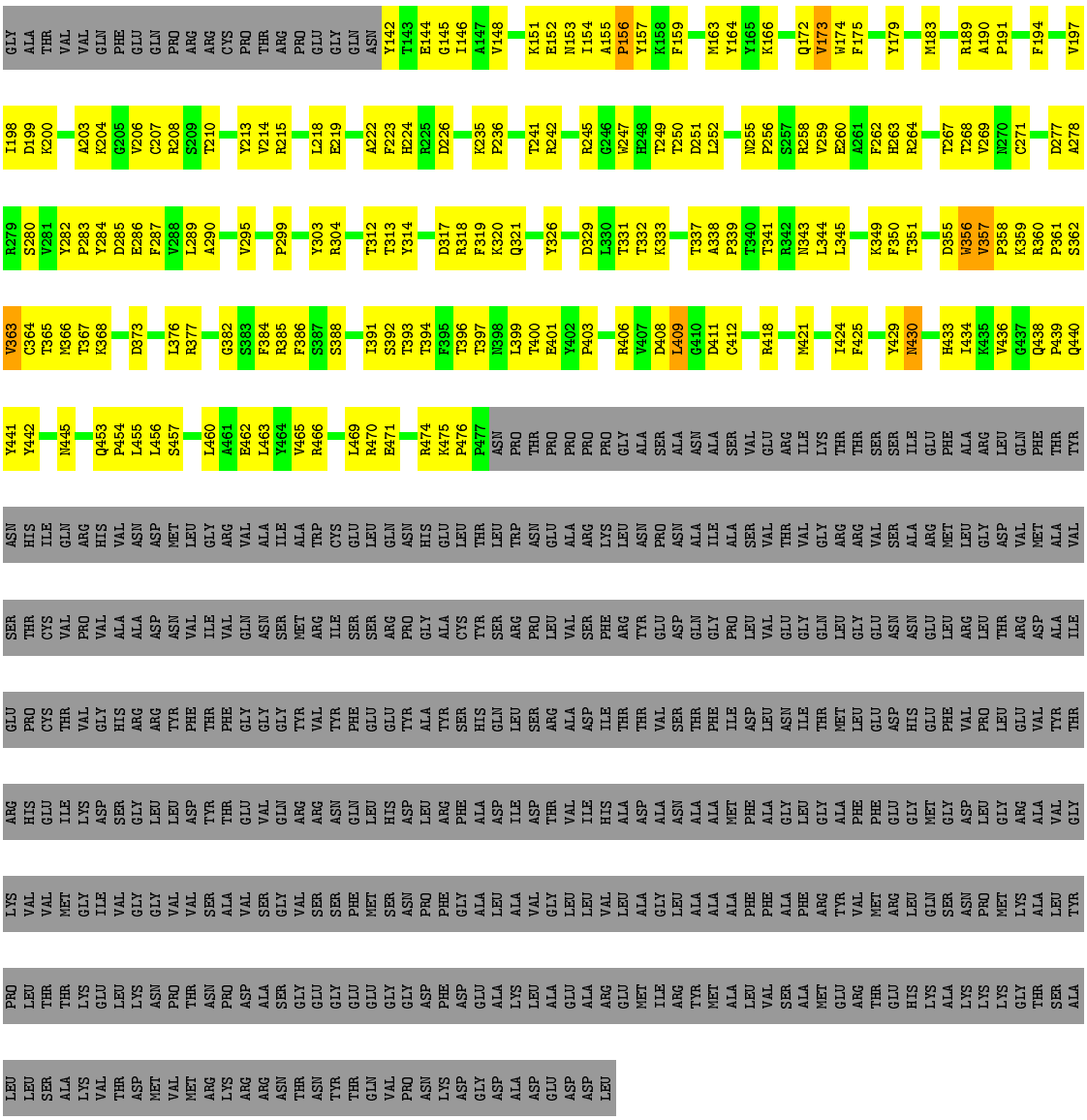
Chain 3-C:



- Molecule 1: ENVELOPE GLYCOPROTEIN B

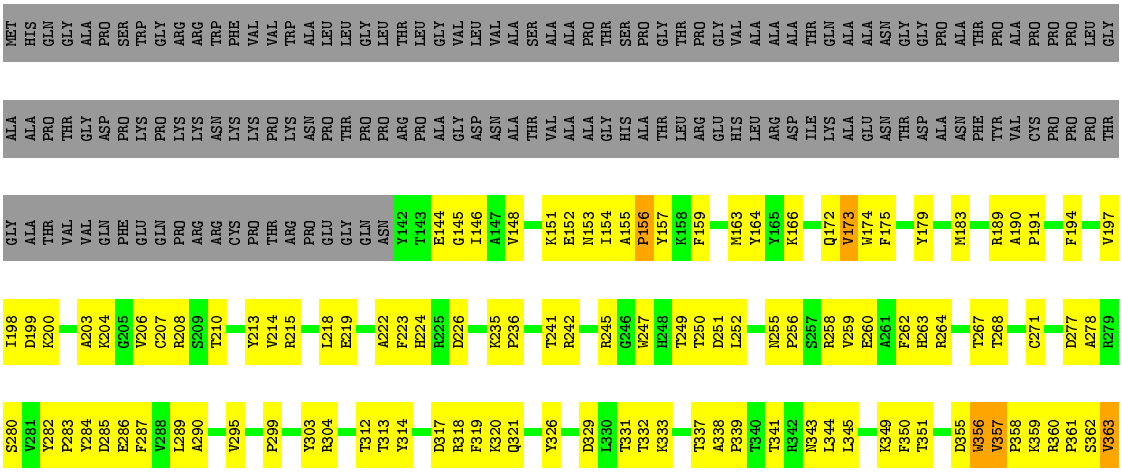
Chain 4-A:

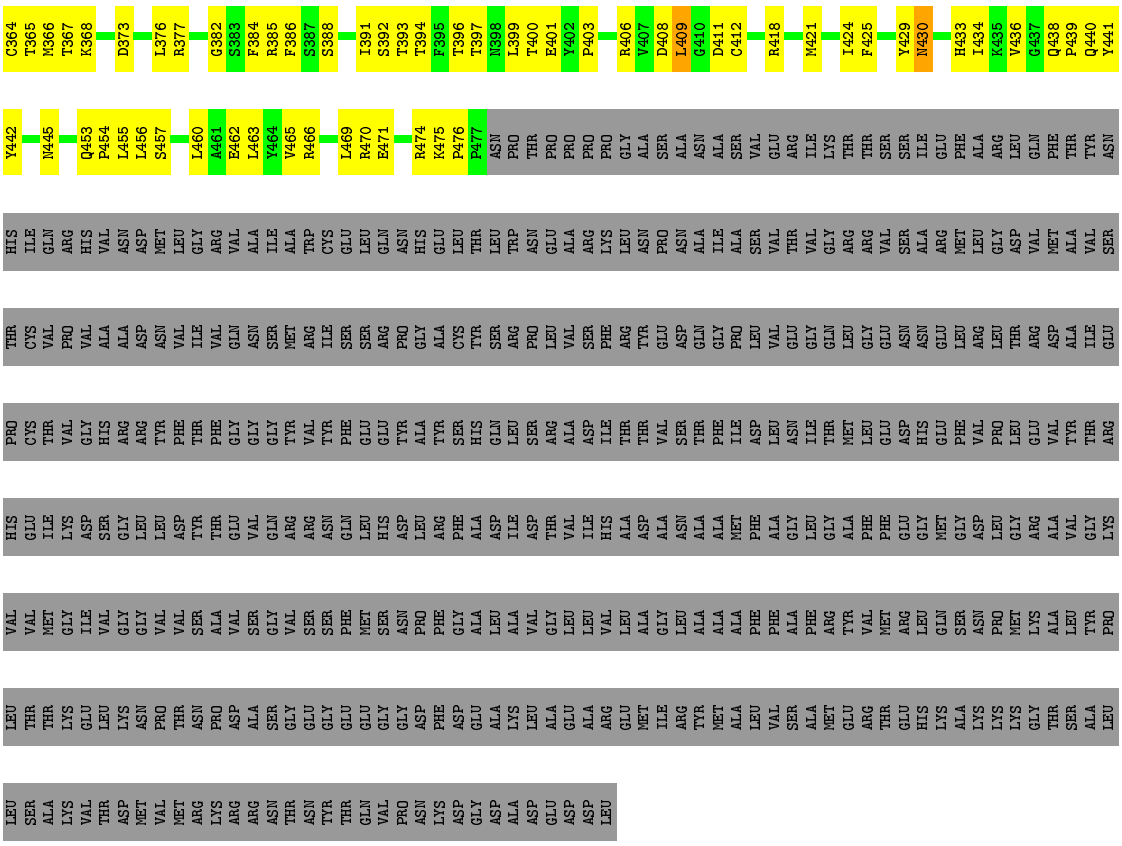




• Molecule 1: ENVELOPE GLYCOPROTEIN B

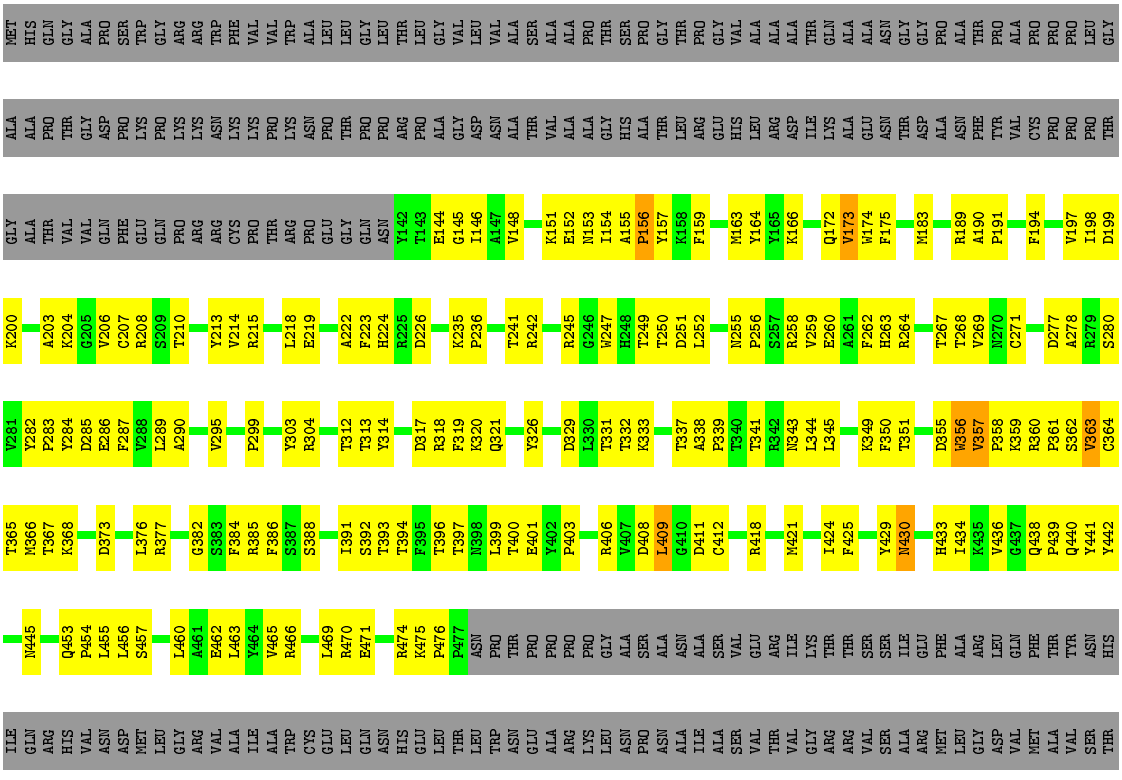
Chain 4-B: 18% 18% • 63%

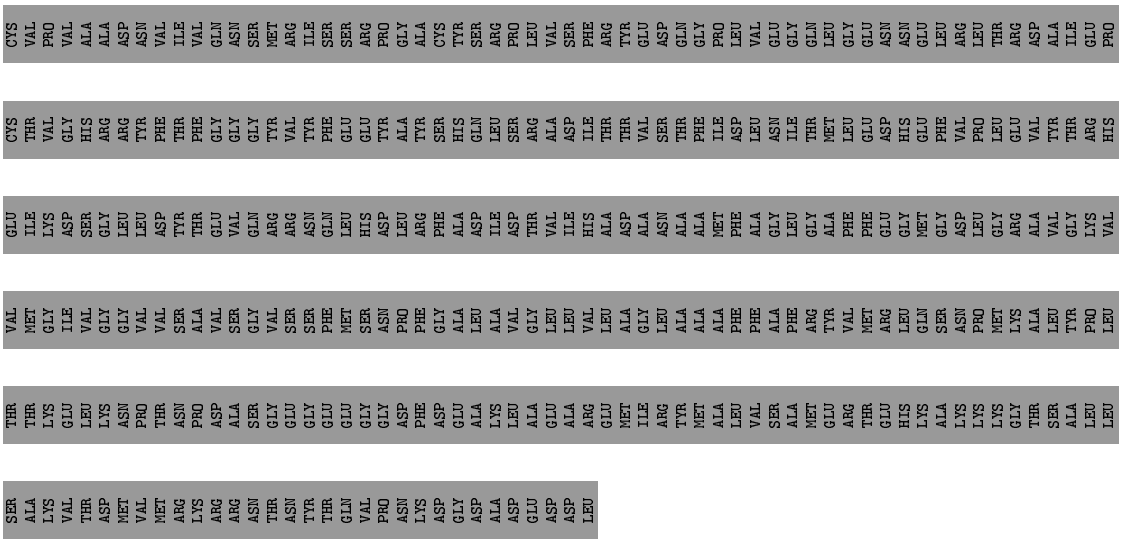




• Molecule 1: ENVELOPE GLYCOPROTEIN B

Chain 4-C: 18% 18% 63%




CYS VAL PRO VAL ALA ALA ASP ASN VAL ILE VAL GLN ASN SER MET ARG ILE SER SER ARG PRO GLY ALA CYS TYR SER ARG PRO LEU VAL SER PHE ARG TYR GLU ASP GLN GLY PRO LEU VAL GLU GLY GLN LEU GLY GLU ASN ASN GLU LEU ARG LEU THR ARG ASP ALA ILE GLU PRO
CYS THR VAL GLY HIS ARG ARG TYR PHE THR PHE GLY GLY GLY TYR VAL TYR PHE GLU GLU TYR ALA TYR SER HIS GLN LEU SER ARG ALA ASP ILE THR THR VAL SER THR PHE ILE ASP LEU ASN ILE THR MET LEU GLU ASP HIS GLU PHE VAL PRO LEU GLU VAL TYR THR ARG HIS
GLU ILE LYS ASP SER GLY LEU LEU ASP TYR THR GLU VAL GLN ARG ARG ASN GLN LEU HIS ASP LEU ARG PHE ALA ASP ILE ASP THR VAL ILE HIS ALA ASP ALA ASN ALA ALA MET PHE ALA GLY LEU GLY ALA PHE PHE GLU GLY MET GLY ASP LEU GLY ARG ALA VAL GLY LYS VAL
VAL MET GLY ILE VAL GLY GLY VAL VAL SER ALA VAL SER GLY VAL SER SER PHE MET SER ASN PRO PHE GLY ALA LEU ALA VAL GLY LEU LEU VAL LEU ALA GLY LEU ALA ALA ALA PHE PHE ALA PHE ARG TYR VAL MET ARG LEU GLN SER ASN PRO MET LYS ALA LEU TYR PRO LEU
THR THR LYS GLU LEU LYS ASN PRO THR ASN PRO ASP ALA SER GLY GLU GLY GLU GLU GLY GLY ASP PHE ASP GLU ALA LYS LEU ALA GLU ALA ARG GLU MET ILE ARG TYR MET ALA LEU VAL SER ALA MET GLU ARG THR GLU HIS LYS ALA LYS LYS LYS GLY THR SER ALA LEU LEU
SER ALA LYS VAL THR ASP MET VAL MET ARG LYS ARG ARG ASN THR ASN TYR THR GLN VAL PRO ASN LYS ASP GLY ASP ALA ASP GLU ASP ASP LEU

4 Experimental information (i)

Property	Value	Source
Reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of tilted images used	Not provided	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	PHASE-FLIPPED TILT SERIES PRIOR TO TOMOGRAPHIC RECONSTRUCTION	Depositor
Microscope	OTHER	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	3000	Depositor
Maximum defocus (nm)	6000	Depositor
Magnification	95000	Depositor
Image detector	GATAN K2 SUMMIT	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 2$	RMSZ	$\#\|Z\| > 2$
1	1-A	0.97	0/2800	1.07	1/3800 (0.0%)
1	1-B	0.97	0/2806	1.07	1/3810 (0.0%)
1	1-C	0.97	0/2806	1.07	1/3810 (0.0%)
1	2-A	0.98	0/2800	1.07	1/3800 (0.0%)
1	2-B	0.98	0/2806	1.07	1/3810 (0.0%)
1	2-C	0.98	0/2806	1.07	1/3810 (0.0%)
1	3-A	0.98	0/2800	1.07	1/3800 (0.0%)
1	3-B	0.98	0/2806	1.07	1/3810 (0.0%)
1	3-C	0.98	0/2806	1.07	1/3810 (0.0%)
1	4-A	0.98	0/2800	1.08	1/3800 (0.0%)
1	4-B	0.98	0/2806	1.07	1/3810 (0.0%)
1	4-C	0.98	0/2806	1.07	1/3810 (0.0%)
All	All	0.98	0/33648	1.07	12/45680 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1-A	0	4
1	1-B	0	4
1	1-C	0	4
1	2-A	0	3
1	2-B	0	3
1	2-C	0	3
1	3-A	0	2
1	3-B	0	2
1	3-C	0	2
1	4-A	0	2
1	4-B	0	2
1	4-C	0	2
All	All	0	33

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4-B	409	LEU	C-N-CA	5.22	133.26	122.30
1	4-A	409	LEU	C-N-CA	5.21	133.25	122.30
1	2-A	409	LEU	C-N-CA	5.20	133.23	122.30
1	2-B	409	LEU	C-N-CA	5.20	133.23	122.30
1	2-C	409	LEU	C-N-CA	5.20	133.23	122.30
1	4-C	409	LEU	C-N-CA	5.20	133.22	122.30
1	1-A	409	LEU	C-N-CA	5.19	133.20	122.30
1	1-B	409	LEU	C-N-CA	5.19	133.20	122.30
1	3-A	409	LEU	C-N-CA	5.18	133.19	122.30
1	3-B	409	LEU	C-N-CA	5.18	133.18	122.30
1	1-C	409	LEU	C-N-CA	5.17	133.17	122.30
1	3-C	409	LEU	C-N-CA	5.17	133.16	122.30

There are no chirality outliers.

All (33) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1-A	154	ILE	Peptide
1	1-A	156	PRO	Peptide
1	1-A	355	ASP	Peptide
1	1-A	363	VAL	Peptide
1	1-B	154	ILE	Peptide
1	1-B	156	PRO	Peptide
1	1-B	355	ASP	Peptide
1	1-B	363	VAL	Peptide
1	1-C	154	ILE	Peptide
1	1-C	156	PRO	Peptide
1	1-C	355	ASP	Peptide
1	1-C	363	VAL	Peptide
1	2-A	154	ILE	Peptide
1	2-A	355	ASP	Peptide
1	2-A	362	SER	Peptide
1	2-B	154	ILE	Peptide
1	2-B	355	ASP	Peptide
1	2-B	362	SER	Peptide
1	2-C	154	ILE	Peptide
1	2-C	355	ASP	Peptide
1	2-C	362	SER	Peptide
1	3-A	154	ILE	Peptide
1	3-A	156	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	3-B	154	ILE	Peptide
1	3-B	156	PRO	Peptide
1	3-C	154	ILE	Peptide
1	3-C	156	PRO	Peptide
1	4-A	156	PRO	Peptide
1	4-A	356	TRP	Peptide
1	4-B	156	PRO	Peptide
1	4-B	356	TRP	Peptide
1	4-C	156	PRO	Peptide
1	4-C	356	TRP	Peptide

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	1-A	2728	0	2613	239	0
1	1-B	2732	0	2618	236	0
1	1-C	2732	0	2618	233	0
1	2-A	2728	0	2613	240	0
1	2-B	2732	0	2618	241	0
1	2-C	2732	0	2618	234	0
1	3-A	2728	0	2613	237	0
1	3-B	2732	0	2618	238	0
1	3-C	2732	0	2618	237	0
1	4-A	2728	0	2613	240	0
1	4-B	2732	0	2618	233	0
1	4-C	2732	0	2618	236	0
All	All	32768	0	31396	2844	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 44.

All (2844) 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:304:ARG:HB2	1:B:356:TRP:HZ3	1.12	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:304:ARG:HB2	1:C:356:TRP:HZ3	1.12	1.11
1:B:363:VAL:HB	1:B:364:CYS:HA	1.35	1.07
1:A:304:ARG:HB2	1:A:356:TRP:HZ3	1.12	1.06
1:A:363:VAL:HB	1:A:364:CYS:HA	1.38	1.06
1:A:363:VAL:HB	1:A:364:CYS:HA	1.35	1.04
1:A:357:VAL:HG22	1:A:358:PRO:HA	1.39	1.04
1:C:363:VAL:HB	1:C:364:CYS:HA	1.35	1.04
1:C:363:VAL:HB	1:C:364:CYS:HA	1.38	1.04
1:C:357:VAL:HG22	1:C:358:PRO:HA	1.39	1.02
1:A:304:ARG:HB2	1:A:356:TRP:HZ3	1.22	1.02
1:B:363:VAL:HB	1:B:364:CYS:HA	1.38	1.02
1:B:355:ASP:HB3	1:B:357:VAL:HG13	1.42	1.02
1:C:304:ARG:HB2	1:C:356:TRP:HZ3	1.22	1.02
1:C:355:ASP:HB3	1:C:357:VAL:HG13	1.42	1.02
1:B:357:VAL:HG22	1:B:358:PRO:HA	1.39	1.01
1:B:304:ARG:HB2	1:B:356:TRP:HZ3	1.22	1.01
1:B:172:GLN:HG3	1:B:183:MET:HB2	1.43	1.01
1:C:172:GLN:HG3	1:C:183:MET:HB2	1.43	1.00
1:C:172:GLN:HG3	1:C:183:MET:HB2	1.43	1.00
1:B:172:GLN:HG3	1:B:183:MET:HB2	1.43	1.00
1:A:355:ASP:HB3	1:A:357:VAL:HG13	1.44	1.00
1:A:172:GLN:HG3	1:A:183:MET:HB2	1.43	0.99
1:B:304:ARG:HB2	1:B:356:TRP:CZ3	1.98	0.99
1:A:304:ARG:HB2	1:A:356:TRP:CZ3	1.98	0.99
1:A:355:ASP:HB3	1:A:357:VAL:HG13	1.42	0.98
1:B:355:ASP:HB3	1:B:357:VAL:HG13	1.44	0.98
1:C:304:ARG:HB2	1:C:356:TRP:CZ3	1.98	0.98
1:A:172:GLN:HG3	1:A:183:MET:HB2	1.43	0.98
1:C:355:ASP:HB3	1:C:357:VAL:HG13	1.44	0.98
1:A:172:GLN:HG3	1:A:183:MET:HB2	1.43	0.98
1:C:172:GLN:HG3	1:C:183:MET:HB2	1.43	0.97
1:B:172:GLN:HG3	1:B:183:MET:HB2	1.43	0.97
1:C:172:GLN:HG3	1:C:183:MET:HB2	1.43	0.97
1:B:172:GLN:HG3	1:B:183:MET:HB2	1.43	0.97
1:A:304:ARG:HB2	1:A:356:TRP:CZ3	1.99	0.96
1:B:304:ARG:HB2	1:B:356:TRP:CZ3	1.99	0.96
1:C:304:ARG:HB2	1:C:356:TRP:CZ3	1.99	0.96
1:B:356:TRP:HE1	1:B:360:ARG:HD3	1.30	0.96
1:A:172:GLN:HG3	1:A:183:MET:HB2	1.43	0.96
1:B:363:VAL:HG11	1:B:411:ASP:HB2	1.50	0.94
1:C:363:VAL:HG11	1:C:411:ASP:HB2	1.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:359:LYS:CD	1:A:409:LEU:HA	1.98	0.93
1:C:359:LYS:CD	1:C:409:LEU:HA	1.98	0.93
1:C:356:TRP:HE1	1:C:360:ARG:HD3	1.30	0.93
1:B:340:THR:CG2	1:B:357:VAL:HG11	1.98	0.93
1:A:356:TRP:HE1	1:A:360:ARG:HD3	1.30	0.93
1:A:340:THR:CG2	1:A:357:VAL:HG11	1.99	0.93
1:C:340:THR:CG2	1:C:357:VAL:HG11	1.99	0.93
1:A:363:VAL:HG12	1:A:364:CYS:H	1.33	0.93
1:B:314:TYR:HB3	1:B:318:ARG:HD2	1.51	0.93
1:B:359:LYS:CD	1:B:409:LEU:HA	1.98	0.93
1:B:314:TYR:HB3	1:B:318:ARG:HD2	1.51	0.93
1:A:314:TYR:HB3	1:A:318:ARG:HD2	1.51	0.92
1:C:363:VAL:HG12	1:C:364:CYS:H	1.33	0.92
1:A:314:TYR:HB3	1:A:318:ARG:HD2	1.52	0.91
1:A:363:VAL:HG11	1:A:411:ASP:HB2	1.49	0.91
1:C:175:PHE:CD1	1:C:258:ARG:HG3	2.06	0.91
1:B:175:PHE:CD1	1:B:258:ARG:HG3	2.06	0.91
1:B:175:PHE:CD1	1:B:258:ARG:HG3	2.06	0.91
1:A:175:PHE:CD1	1:A:258:ARG:HG3	2.06	0.90
1:A:175:PHE:CD1	1:A:258:ARG:HG3	2.06	0.90
1:A:175:PHE:CD1	1:A:258:ARG:HG3	2.06	0.90
1:B:175:PHE:CD1	1:B:258:ARG:HG3	2.06	0.90
1:C:175:PHE:CD1	1:C:258:ARG:HG3	2.06	0.90
1:A:175:PHE:CD1	1:A:258:ARG:HG3	2.06	0.90
1:A:144:GLU:HG3	1:A:455:LEU:HB2	1.54	0.90
1:B:314:TYR:HB3	1:B:318:ARG:HD2	1.51	0.90
1:B:144:GLU:HG3	1:B:455:LEU:HB2	1.54	0.90
1:A:314:TYR:HB3	1:A:318:ARG:HD2	1.51	0.90
1:A:144:GLU:HG3	1:A:455:LEU:HB2	1.54	0.90
1:B:363:VAL:HG12	1:B:364:CYS:H	1.33	0.90
1:C:314:TYR:HB3	1:C:318:ARG:HD2	1.51	0.90
1:B:314:TYR:HB3	1:B:318:ARG:HD2	1.52	0.90
1:B:175:PHE:CD1	1:B:258:ARG:HG3	2.06	0.90
1:B:144:GLU:HG3	1:B:455:LEU:HB2	1.54	0.90
1:C:144:GLU:HG3	1:C:455:LEU:HB2	1.54	0.90
1:C:144:GLU:HG3	1:C:455:LEU:HB2	1.54	0.89
1:C:144:GLU:HG3	1:C:455:LEU:HB2	1.54	0.89
1:C:175:PHE:CD1	1:C:258:ARG:HG3	2.06	0.89
1:A:314:TYR:HB3	1:A:318:ARG:HD2	1.51	0.89
1:C:175:PHE:CD1	1:C:258:ARG:HG3	2.06	0.89
1:A:144:GLU:HG3	1:A:455:LEU:HB2	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:314:TYR:HB3	1:C:318:ARG:HD2	1.51	0.89
1:C:314:TYR:HB3	1:C:318:ARG:HD2	1.51	0.89
1:B:144:GLU:HG3	1:B:455:LEU:HB2	1.54	0.89
1:B:144:GLU:HG3	1:B:455:LEU:HB2	1.54	0.89
1:C:144:GLU:HG3	1:C:455:LEU:HB2	1.54	0.89
1:C:326:TYR:CZ	1:C:339:PRO:HG3	2.09	0.88
1:C:314:TYR:HB3	1:C:318:ARG:HD2	1.51	0.88
1:A:312:THR:HG22	1:A:314:TYR:H	1.38	0.88
1:C:326:TYR:CZ	1:C:339:PRO:HG3	2.09	0.88
1:A:312:THR:HG22	1:A:314:TYR:H	1.38	0.88
1:A:144:GLU:HG3	1:A:455:LEU:HB2	1.54	0.88
1:C:326:TYR:CZ	1:C:339:PRO:HG3	2.09	0.88
1:C:312:THR:HG22	1:C:314:TYR:H	1.38	0.88
1:A:326:TYR:CZ	1:A:339:PRO:HG3	2.09	0.88
1:B:312:THR:HG22	1:B:314:TYR:H	1.38	0.88
1:C:326:TYR:CZ	1:C:339:PRO:HG3	2.09	0.87
1:B:421:MET:CE	1:B:453:GLN:HB2	2.05	0.87
1:C:421:MET:CE	1:C:453:GLN:HB2	2.05	0.87
1:A:421:MET:CE	1:A:453:GLN:HB2	2.05	0.87
1:A:312:THR:HG22	1:A:314:TYR:H	1.38	0.87
1:C:312:THR:HG22	1:C:314:TYR:H	1.38	0.87
1:C:421:MET:CE	1:C:453:GLN:HB2	2.05	0.87
1:A:326:TYR:CZ	1:A:339:PRO:HG3	2.09	0.87
1:C:312:THR:HG22	1:C:314:TYR:H	1.38	0.87
1:B:326:TYR:CZ	1:B:339:PRO:HG3	2.09	0.87
1:A:421:MET:CE	1:A:453:GLN:HB2	2.05	0.87
1:B:361:PRO:HA	1:B:412:CYS:HB3	1.56	0.87
1:C:312:THR:HG22	1:C:314:TYR:H	1.38	0.87
1:A:326:TYR:CZ	1:A:339:PRO:HG3	2.09	0.87
1:B:421:MET:CE	1:B:453:GLN:HB2	2.05	0.87
1:B:326:TYR:CZ	1:B:339:PRO:HG3	2.09	0.87
1:A:312:THR:HG22	1:A:314:TYR:H	1.38	0.87
1:A:326:TYR:CZ	1:A:339:PRO:HG3	2.09	0.87
1:B:312:THR:HG22	1:B:314:TYR:H	1.38	0.86
1:A:421:MET:CE	1:A:453:GLN:HB2	2.05	0.86
1:A:355:ASP:HB3	1:A:357:VAL:CG1	2.06	0.86
1:B:326:TYR:CZ	1:B:339:PRO:HG3	2.09	0.86
1:B:421:MET:CE	1:B:453:GLN:HB2	2.05	0.86
1:A:357:VAL:HG23	1:A:359:LYS:HB2	1.57	0.86
1:B:326:TYR:CZ	1:B:339:PRO:HG3	2.09	0.86
1:C:421:MET:CE	1:C:453:GLN:HB2	2.05	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:359:LYS:HD2	1:B:409:LEU:HA	1.58	0.86
1:C:355:ASP:HB3	1:C:357:VAL:CG1	2.06	0.86
1:C:421:MET:CE	1:C:453:GLN:HB2	2.05	0.86
1:A:421:MET:CE	1:A:453:GLN:HB2	2.05	0.86
1:B:357:VAL:HG23	1:B:359:LYS:HB2	1.57	0.86
1:C:357:VAL:HG23	1:C:359:LYS:HB2	1.57	0.86
1:C:359:LYS:HD2	1:C:409:LEU:HA	1.57	0.86
1:B:421:MET:CE	1:B:453:GLN:HB2	2.05	0.86
1:B:312:THR:HG22	1:B:314:TYR:H	1.38	0.86
1:C:361:PRO:HA	1:C:412:CYS:HB3	1.56	0.86
1:A:366:MET:HA	1:A:366:MET:HE2	1.57	0.86
1:A:361:PRO:HA	1:A:412:CYS:HB3	1.56	0.85
1:B:356:TRP:HE1	1:B:360:ARG:HD3	1.41	0.85
1:B:456:LEU:HD21	1:B:460:LEU:HB2	1.59	0.85
1:C:456:LEU:HD21	1:C:460:LEU:HB2	1.59	0.85
1:B:312:THR:HG22	1:B:314:TYR:H	1.38	0.85
1:C:456:LEU:HD21	1:C:460:LEU:HB2	1.59	0.85
1:B:456:LEU:HD21	1:B:460:LEU:HB2	1.58	0.85
1:C:456:LEU:HD21	1:C:460:LEU:HB2	1.59	0.85
1:A:359:LYS:HD2	1:A:409:LEU:HA	1.58	0.84
1:B:355:ASP:HB3	1:B:357:VAL:CG1	2.06	0.84
1:A:456:LEU:HD21	1:A:460:LEU:HB2	1.59	0.84
1:A:356:TRP:HE1	1:A:360:ARG:HD3	1.41	0.84
1:A:456:LEU:HD21	1:A:460:LEU:HB2	1.59	0.84
1:C:356:TRP:HE1	1:C:360:ARG:HD3	1.42	0.84
1:C:456:LEU:HD21	1:C:460:LEU:HB2	1.58	0.84
1:A:456:LEU:HD21	1:A:460:LEU:HB2	1.58	0.84
1:A:355:ASP:CB	1:A:357:VAL:HG12	2.08	0.84
1:A:456:LEU:HD21	1:A:460:LEU:HB2	1.59	0.83
1:A:300:PHE:CE1	1:A:363:VAL:HG21	2.13	0.83
1:C:300:PHE:CE1	1:C:363:VAL:HG21	2.13	0.83
1:B:456:LEU:HD21	1:B:460:LEU:HB2	1.59	0.83
1:C:355:ASP:CB	1:C:358:PRO:HD3	2.09	0.83
1:C:355:ASP:CB	1:C:357:VAL:HG12	2.08	0.83
1:B:456:LEU:HD21	1:B:460:LEU:HB2	1.59	0.83
1:B:355:ASP:CB	1:B:357:VAL:HG12	2.08	0.83
1:A:362:SER:HB2	1:A:409:LEU:HD23	1.61	0.83
1:B:355:ASP:CB	1:B:358:PRO:HD3	2.09	0.83
1:A:355:ASP:CB	1:A:358:PRO:HD3	2.09	0.82
1:B:300:PHE:CE1	1:B:363:VAL:HG21	2.13	0.82
1:B:164:TYR:HB2	1:B:351:THR:HG22	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:164:TYR:HB2	1:A:351:THR:HG22	1.62	0.82
1:B:164:TYR:HB2	1:B:351:THR:HG22	1.62	0.82
1:A:164:TYR:HB2	1:A:351:THR:HG22	1.62	0.82
1:C:362:SER:HB2	1:C:409:LEU:HD23	1.61	0.82
1:B:152:GLU:HA	1:B:366:MET:CE	2.10	0.82
1:A:152:GLU:HA	1:A:366:MET:CE	2.10	0.82
1:B:152:GLU:HA	1:B:366:MET:CE	2.09	0.82
1:A:152:GLU:HA	1:A:366:MET:CE	2.10	0.82
1:A:152:GLU:HA	1:A:366:MET:CE	2.10	0.82
1:C:152:GLU:HA	1:C:366:MET:CE	2.10	0.82
1:A:152:GLU:HA	1:A:366:MET:CE	2.09	0.82
1:B:152:GLU:HA	1:B:366:MET:CE	2.10	0.82
1:C:164:TYR:HB2	1:C:351:THR:HG22	1.61	0.82
1:C:204:LYS:HB2	1:C:206:VAL:HG22	1.62	0.81
1:B:152:GLU:HA	1:B:366:MET:CE	2.09	0.81
1:A:164:TYR:HB2	1:A:351:THR:HG22	1.62	0.81
1:C:152:GLU:HA	1:C:366:MET:CE	2.09	0.81
1:B:164:TYR:HB2	1:B:351:THR:HG22	1.62	0.81
1:B:355:ASP:HB3	1:B:357:VAL:HG12	1.62	0.81
1:C:152:GLU:HA	1:C:366:MET:CE	2.09	0.81
1:A:366:MET:HA	1:A:366:MET:HE2	1.62	0.81
1:B:164:TYR:HB2	1:B:351:THR:HG22	1.62	0.81
1:C:152:GLU:HA	1:C:366:MET:CE	2.10	0.81
1:A:204:LYS:HB2	1:A:206:VAL:HG22	1.62	0.81
1:A:164:TYR:HB2	1:A:351:THR:HG22	1.62	0.81
1:C:421:MET:HE1	1:C:453:GLN:HB2	1.63	0.81
1:C:355:ASP:HB2	1:C:358:PRO:HD3	1.63	0.81
1:C:357:VAL:HB	1:C:358:PRO:HD2	1.63	0.81
1:C:204:LYS:HB2	1:C:206:VAL:HG22	1.62	0.80
1:A:204:LYS:HB2	1:A:206:VAL:HG22	1.62	0.80
1:B:204:LYS:HB2	1:B:206:VAL:HG22	1.62	0.80
1:A:204:LYS:HB2	1:A:206:VAL:HG22	1.62	0.80
1:B:204:LYS:HB2	1:B:206:VAL:HG22	1.62	0.80
1:B:357:VAL:HB	1:B:358:PRO:HD2	1.63	0.80
1:C:164:TYR:HB2	1:C:351:THR:HG22	1.62	0.80
1:B:204:LYS:HB2	1:B:206:VAL:HG22	1.62	0.80
1:C:204:LYS:HB2	1:C:206:VAL:HG22	1.62	0.80
1:B:204:LYS:HB2	1:B:206:VAL:HG22	1.62	0.80
1:C:361:PRO:HA	1:C:412:CYS:CB	2.12	0.80
1:C:218:LEU:HD23	1:C:219:GLU:N	1.97	0.80
1:C:218:LEU:HD23	1:C:219:GLU:N	1.97	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:GLU:HA	1:A:366:MET:HE1	1.62	0.80
1:A:357:VAL:CG2	1:A:359:LYS:HB2	2.12	0.80
1:A:355:ASP:HB3	1:A:357:VAL:HG12	1.62	0.80
1:C:355:ASP:HB3	1:C:357:VAL:HG12	1.62	0.80
1:B:362:SER:HB2	1:B:409:LEU:HD23	1.61	0.79
1:B:366:MET:HA	1:B:366:MET:HE2	1.63	0.79
1:A:199:ASP:O	1:A:203:ALA:HB3	1.82	0.79
1:C:218:LEU:HD23	1:C:219:GLU:N	1.97	0.79
1:A:218:LEU:HD23	1:A:219:GLU:N	1.97	0.79
1:A:199:ASP:O	1:A:203:ALA:HB3	1.82	0.79
1:A:218:LEU:HD23	1:A:219:GLU:N	1.97	0.79
1:B:199:ASP:O	1:B:203:ALA:HB3	1.82	0.79
1:B:218:LEU:HD23	1:B:219:GLU:N	1.97	0.79
1:B:218:LEU:HD23	1:B:219:GLU:N	1.97	0.79
1:A:199:ASP:O	1:A:203:ALA:HB3	1.82	0.79
1:C:204:LYS:HB2	1:C:206:VAL:HG22	1.62	0.79
1:B:357:VAL:CG2	1:B:359:LYS:HB2	2.12	0.79
1:B:361:PRO:HA	1:B:412:CYS:CB	2.12	0.79
1:C:199:ASP:O	1:C:203:ALA:HB3	1.82	0.79
1:B:199:ASP:O	1:B:203:ALA:HB3	1.82	0.79
1:A:361:PRO:HA	1:A:412:CYS:CB	2.12	0.79
1:A:218:LEU:HD23	1:A:219:GLU:N	1.97	0.79
1:C:164:TYR:HB2	1:C:351:THR:HG22	1.62	0.79
1:C:218:LEU:HD23	1:C:219:GLU:N	1.97	0.79
1:B:218:LEU:HD23	1:B:219:GLU:N	1.97	0.79
1:A:204:LYS:HB2	1:A:206:VAL:HG22	1.62	0.79
1:C:357:VAL:CG2	1:C:359:LYS:HB2	2.12	0.79
1:B:355:ASP:HB2	1:B:358:PRO:HD3	1.63	0.79
1:C:164:TYR:HB2	1:C:351:THR:HG22	1.62	0.79
1:C:421:MET:HE1	1:C:453:GLN:HB2	1.64	0.79
1:A:355:ASP:HB2	1:A:358:PRO:HD3	1.63	0.79
1:B:199:ASP:O	1:B:203:ALA:HB3	1.82	0.79
1:A:218:LEU:HD23	1:A:219:GLU:N	1.97	0.78
1:B:218:LEU:HD23	1:B:219:GLU:N	1.97	0.78
1:B:199:ASP:O	1:B:203:ALA:HB3	1.82	0.78
1:B:355:ASP:HB3	1:B:357:VAL:CG1	2.14	0.78
1:C:199:ASP:O	1:C:203:ALA:HB3	1.82	0.78
1:A:304:ARG:HD3	1:A:356:TRP:CZ3	2.18	0.78
1:B:421:MET:HE1	1:B:453:GLN:HB2	1.66	0.78
1:A:355:ASP:HB3	1:A:357:VAL:CG1	2.14	0.78
1:A:259:VAL:HG22	1:A:264:ARG:HD2	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:199:ASP:O	1:A:203:ALA:HB3	1.82	0.78
1:C:259:VAL:CG2	1:C:264:ARG:HD2	2.14	0.78
1:A:259:VAL:HG22	1:A:264:ARG:HD2	1.66	0.78
1:B:421:MET:HE1	1:B:453:GLN:HB2	1.66	0.78
1:A:357:VAL:HB	1:A:358:PRO:HD2	1.63	0.78
1:A:259:VAL:CG2	1:A:264:ARG:HD2	2.14	0.78
1:C:259:VAL:CG2	1:C:264:ARG:HD2	2.14	0.78
1:A:259:VAL:CG2	1:A:264:ARG:HD2	2.14	0.77
1:C:304:ARG:HB2	1:C:356:TRP:CZ3	2.19	0.77
1:C:304:ARG:HD3	1:C:356:TRP:CZ3	2.18	0.77
1:B:377:ARG:HD3	1:B:384:PHE:CD1	2.20	0.77
1:B:357:VAL:HG23	1:B:409:LEU:HD21	1.66	0.77
1:A:259:VAL:CG2	1:A:264:ARG:HD2	2.14	0.77
1:C:357:VAL:HG23	1:C:359:LYS:HB2	1.65	0.77
1:B:377:ARG:HD3	1:B:384:PHE:CD1	2.20	0.77
1:B:304:ARG:HD3	1:B:356:TRP:CZ3	2.18	0.77
1:C:199:ASP:O	1:C:203:ALA:HB3	1.82	0.77
1:A:377:ARG:HD3	1:A:384:PHE:CD1	2.20	0.77
1:C:199:ASP:O	1:C:203:ALA:HB3	1.82	0.77
1:A:366:MET:HE2	1:A:366:MET:HA	1.66	0.77
1:C:355:ASP:HB3	1:C:357:VAL:CG1	2.14	0.77
1:C:377:ARG:HD3	1:C:384:PHE:CD1	2.20	0.77
1:B:152:GLU:HA	1:B:366:MET:HE1	1.67	0.77
1:B:304:ARG:HB2	1:B:356:TRP:CZ3	2.19	0.77
1:A:357:VAL:HG23	1:A:409:LEU:HD21	1.66	0.77
1:A:357:VAL:HG23	1:A:359:LYS:HB2	1.65	0.77
1:A:377:ARG:HD3	1:A:384:PHE:CD1	2.20	0.77
1:B:384:PHE:HB2	1:B:397:THR:CG2	2.15	0.77
1:A:357:VAL:HB	1:A:358:PRO:HD2	1.66	0.77
1:B:384:PHE:HB2	1:B:397:THR:CG2	2.15	0.77
1:C:259:VAL:HG22	1:C:264:ARG:HD2	1.66	0.77
1:A:377:ARG:HD3	1:A:384:PHE:CD1	2.20	0.77
1:B:377:ARG:HD3	1:B:384:PHE:CD1	2.20	0.77
1:C:384:PHE:HB2	1:C:397:THR:CG2	2.15	0.77
1:B:357:VAL:HG23	1:B:359:LYS:HB2	1.65	0.77
1:B:384:PHE:HB2	1:B:397:THR:CG2	2.15	0.77
1:A:384:PHE:HB2	1:A:397:THR:CG2	2.15	0.77
1:A:421:MET:HE1	1:A:453:GLN:HB2	1.67	0.77
1:B:384:PHE:HB2	1:B:397:THR:CG2	2.15	0.77
1:A:384:PHE:HB2	1:A:397:THR:CG2	2.15	0.77
1:A:259:VAL:CG2	1:A:264:ARG:HD2	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:GLU:HA	1:A:366:MET:HE1	1.66	0.76
1:B:259:VAL:CG2	1:B:264:ARG:HD2	2.14	0.76
1:C:259:VAL:CG2	1:C:264:ARG:HD2	2.14	0.76
1:B:259:VAL:HG22	1:B:264:ARG:HD2	1.66	0.76
1:B:259:VAL:HG22	1:B:264:ARG:HD2	1.66	0.76
1:A:194:PHE:CE2	1:A:198:ILE:HD13	2.21	0.76
1:C:259:VAL:HG22	1:C:264:ARG:HD2	1.66	0.76
1:B:259:VAL:CG2	1:B:264:ARG:HD2	2.15	0.76
1:A:194:PHE:CE2	1:A:198:ILE:HD13	2.21	0.76
1:C:377:ARG:HD3	1:C:384:PHE:CD1	2.20	0.76
1:C:384:PHE:HB2	1:C:397:THR:CG2	2.15	0.76
1:B:259:VAL:CG2	1:B:264:ARG:HD2	2.14	0.76
1:C:259:VAL:HG22	1:C:264:ARG:HD2	1.66	0.76
1:C:357:VAL:HG23	1:C:409:LEU:HD21	1.66	0.76
1:C:421:MET:HE1	1:C:453:GLN:HB2	1.66	0.76
1:A:259:VAL:HG22	1:A:264:ARG:HD2	1.66	0.76
1:A:145:GLY:HA2	1:A:455:LEU:HG	1.68	0.76
1:A:384:PHE:HB2	1:A:397:THR:CG2	2.15	0.76
1:A:145:GLY:HA2	1:A:455:LEU:HG	1.68	0.76
1:C:145:GLY:HA2	1:C:455:LEU:HG	1.68	0.76
1:B:357:VAL:HB	1:B:358:PRO:HD2	1.67	0.76
1:C:366:MET:HE2	1:C:366:MET:HA	1.68	0.76
1:A:364:CYS:HB3	1:A:366:MET:O	1.86	0.76
1:B:145:GLY:HA2	1:B:455:LEU:HG	1.68	0.76
1:A:377:ARG:HD3	1:A:384:PHE:CD1	2.20	0.76
1:A:304:ARG:HB2	1:A:356:TRP:CZ3	2.19	0.76
1:B:145:GLY:HA2	1:B:455:LEU:HG	1.68	0.76
1:B:259:VAL:HG22	1:B:264:ARG:HD2	1.66	0.76
1:B:194:PHE:CE2	1:B:198:ILE:HD13	2.21	0.76
1:A:145:GLY:HA2	1:A:455:LEU:HG	1.68	0.76
1:B:259:VAL:CG2	1:B:264:ARG:HD2	2.14	0.76
1:C:194:PHE:CE2	1:C:198:ILE:HD13	2.21	0.76
1:C:363:VAL:CG1	1:C:411:ASP:HB2	2.16	0.76
1:B:194:PHE:CE2	1:B:198:ILE:HD13	2.21	0.76
1:A:384:PHE:HB2	1:A:397:THR:CG2	2.15	0.76
1:B:194:PHE:CE2	1:B:198:ILE:HD13	2.21	0.76
1:A:421:MET:HE1	1:A:453:GLN:HB2	1.66	0.76
1:B:363:VAL:HG11	1:B:411:ASP:CB	2.16	0.76
1:C:145:GLY:HA2	1:C:455:LEU:HG	1.68	0.76
1:B:259:VAL:HG22	1:B:264:ARG:HD2	1.66	0.76
1:C:377:ARG:HD3	1:C:384:PHE:CD1	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:377:ARG:HD3	1:B:384:PHE:CD1	2.20	0.76
1:C:146:ILE:HD12	1:C:424:ILE:HD11	1.68	0.76
1:A:146:ILE:HB	1:A:424:ILE:HD11	1.68	0.76
1:B:145:GLY:HA2	1:B:455:LEU:HG	1.68	0.76
1:C:259:VAL:CG2	1:C:264:ARG:HD2	2.15	0.76
1:C:146:ILE:HD12	1:C:424:ILE:HD11	1.68	0.75
1:C:357:VAL:HB	1:C:358:PRO:HD2	1.66	0.75
1:C:363:VAL:HG11	1:C:411:ASP:CB	2.16	0.75
1:C:364:CYS:HB3	1:C:366:MET:O	1.86	0.75
1:A:194:PHE:CE2	1:A:198:ILE:HD13	2.21	0.75
1:B:146:ILE:HB	1:B:424:ILE:HD11	1.68	0.75
1:A:146:ILE:HB	1:A:424:ILE:HD11	1.68	0.75
1:B:146:ILE:HD12	1:B:424:ILE:HD11	1.68	0.75
1:C:377:ARG:HD3	1:C:384:PHE:CD1	2.20	0.75
1:B:310:GLU:OE2	1:B:409:LEU:HD11	1.86	0.75
1:B:363:VAL:CG1	1:B:411:ASP:HB2	2.16	0.75
1:C:310:GLU:OE2	1:C:409:LEU:HD11	1.86	0.75
1:C:194:PHE:CE2	1:C:198:ILE:HD13	2.21	0.75
1:C:359:LYS:HG3	1:C:409:LEU:HG	1.68	0.75
1:B:366:MET:HE2	1:B:366:MET:HA	1.67	0.75
1:C:145:GLY:HA2	1:C:455:LEU:HG	1.68	0.75
1:C:194:PHE:CE2	1:C:198:ILE:HD13	2.21	0.75
1:A:363:VAL:CG1	1:A:411:ASP:HB2	2.16	0.75
1:C:146:ILE:HB	1:C:424:ILE:HD11	1.68	0.75
1:B:146:ILE:HD12	1:B:424:ILE:HD11	1.68	0.75
1:C:194:PHE:CE2	1:C:198:ILE:HD13	2.21	0.75
1:C:146:ILE:HB	1:C:424:ILE:HD11	1.68	0.75
1:A:194:PHE:CE2	1:A:198:ILE:HD13	2.21	0.75
1:A:145:GLY:HA2	1:A:455:LEU:HG	1.68	0.75
1:C:384:PHE:HB2	1:C:397:THR:CG2	2.15	0.75
1:B:146:ILE:HD12	1:B:424:ILE:HD11	1.68	0.75
1:C:146:ILE:HD12	1:C:424:ILE:HD11	1.68	0.75
1:B:359:LYS:HG3	1:B:409:LEU:HG	1.68	0.75
1:A:146:ILE:HB	1:A:424:ILE:HD11	1.68	0.75
1:B:364:CYS:HB3	1:B:366:MET:O	1.86	0.75
1:A:359:LYS:HG3	1:A:409:LEU:HG	1.68	0.75
1:C:384:PHE:HB2	1:C:397:THR:CG2	2.15	0.75
1:C:146:ILE:HB	1:C:424:ILE:HD11	1.68	0.75
1:B:146:ILE:HB	1:B:424:ILE:HD11	1.68	0.75
1:B:194:PHE:CE2	1:B:198:ILE:HD13	2.21	0.75
1:C:259:VAL:HG22	1:C:264:ARG:HD2	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:146:ILE:HD12	1:A:424:ILE:HD11	1.68	0.75
1:A:146:ILE:HB	1:A:424:ILE:HD11	1.68	0.74
1:A:363:VAL:HG11	1:A:411:ASP:CB	2.16	0.74
1:A:259:VAL:HG22	1:A:264:ARG:HD2	1.66	0.74
1:A:310:GLU:OE2	1:A:409:LEU:HD11	1.86	0.74
1:C:145:GLY:HA2	1:C:455:LEU:HG	1.68	0.74
1:B:421:MET:HE1	1:B:453:GLN:HB2	1.68	0.74
1:A:356:TRP:HE1	1:A:360:ARG:CD	2.00	0.74
1:B:146:ILE:HD12	1:B:424:ILE:HD11	1.68	0.74
1:A:146:ILE:HD12	1:A:424:ILE:HD11	1.68	0.74
1:B:362:SER:HB2	1:B:409:LEU:CD2	2.18	0.74
1:B:408:ASP:OD1	1:B:409:LEU:HD12	1.88	0.74
1:C:146:ILE:HB	1:C:424:ILE:HD11	1.68	0.74
1:A:142:TYR:CG	1:A:142:TYR:CZ	2.76	0.74
1:A:146:ILE:HD12	1:A:424:ILE:HD11	1.68	0.74
1:B:403:PRO:HB2	1:B:406:ARG:HG3	1.70	0.74
1:B:408:ASP:OD1	1:B:409:LEU:HD12	1.88	0.74
1:A:146:ILE:HD12	1:A:424:ILE:HD11	1.68	0.74
1:B:235:LYS:HB2	1:B:236:PRO:HD2	1.70	0.74
1:B:408:ASP:OD1	1:B:409:LEU:HD12	1.88	0.73
1:A:152:GLU:HA	1:A:366:MET:HE1	1.69	0.73
1:A:408:ASP:OD1	1:A:409:LEU:HD12	1.88	0.73
1:B:300:PHE:CE1	1:B:363:VAL:HG21	2.23	0.73
1:B:145:GLY:HA2	1:B:455:LEU:HG	1.68	0.73
1:C:421:MET:HE1	1:C:453:GLN:HB2	1.70	0.73
1:A:300:PHE:CE1	1:A:363:VAL:HG21	2.23	0.73
1:C:408:ASP:OD1	1:C:409:LEU:HD12	1.88	0.73
1:C:403:PRO:HB2	1:C:406:ARG:HG3	1.70	0.73
1:C:356:TRP:HE1	1:C:360:ARG:CD	2.00	0.73
1:A:251:ASP:CB	1:A:252:LEU:HD22	2.19	0.73
1:C:146:ILE:HD12	1:C:424:ILE:HD11	1.68	0.73
1:A:408:ASP:OD1	1:A:409:LEU:HD12	1.88	0.73
1:C:408:ASP:OD1	1:C:409:LEU:HD12	1.88	0.73
1:C:235:LYS:HB2	1:C:236:PRO:HD2	1.70	0.73
1:B:235:LYS:HB2	1:B:236:PRO:HD2	1.70	0.73
1:C:408:ASP:OD1	1:C:409:LEU:HD12	1.88	0.73
1:B:146:ILE:HB	1:B:424:ILE:HD11	1.68	0.73
1:A:403:PRO:HB2	1:A:406:ARG:HG3	1.70	0.73
1:C:300:PHE:CE1	1:C:363:VAL:HG21	2.23	0.73
1:A:408:ASP:OD1	1:A:409:LEU:HD12	1.88	0.73
1:C:456:LEU:CD2	1:C:460:LEU:HB2	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:TYR:CZ	1:A:142:TYR:CG	2.76	0.73
1:A:403:PRO:HB2	1:A:406:ARG:HG3	1.70	0.73
1:A:142:TYR:CG	1:A:142:TYR:CZ	2.76	0.73
1:C:340:THR:HG21	1:C:357:VAL:HG11	1.70	0.73
1:A:421:MET:HE1	1:A:453:GLN:HB2	1.69	0.73
1:A:456:LEU:CD2	1:A:460:LEU:HB2	2.19	0.73
1:C:362:SER:HB2	1:C:409:LEU:CD2	2.18	0.73
1:B:146:ILE:HB	1:B:424:ILE:HD11	1.68	0.73
1:C:403:PRO:HB2	1:C:406:ARG:HG3	1.70	0.73
1:B:340:THR:HG21	1:B:357:VAL:HG11	1.70	0.73
1:A:251:ASP:CB	1:A:252:LEU:HD22	2.19	0.73
1:C:456:LEU:CD2	1:C:460:LEU:HB2	2.19	0.73
1:B:403:PRO:HB2	1:B:406:ARG:HG3	1.70	0.73
1:B:300:PHE:HB3	1:B:409:LEU:HD21	1.71	0.73
1:A:362:SER:HB2	1:A:409:LEU:CD2	2.18	0.73
1:B:403:PRO:HB2	1:B:406:ARG:HG3	1.70	0.73
1:A:403:PRO:HB2	1:A:406:ARG:HG3	1.70	0.73
1:B:366:MET:HE2	1:B:366:MET:HA	1.70	0.73
1:C:235:LYS:HB2	1:C:236:PRO:HD2	1.70	0.73
1:B:251:ASP:CB	1:B:252:LEU:HD22	2.19	0.72
1:C:251:ASP:CB	1:C:252:LEU:HD22	2.19	0.72
1:A:456:LEU:CD2	1:A:460:LEU:HB2	2.19	0.72
1:C:456:LEU:CD2	1:C:460:LEU:HB2	2.19	0.72
1:C:403:PRO:HB2	1:C:406:ARG:HG3	1.70	0.72
1:B:251:ASP:CB	1:B:252:LEU:HD22	2.19	0.72
1:B:152:GLU:HA	1:B:366:MET:HE1	1.70	0.72
1:A:235:LYS:HB2	1:A:236:PRO:HD2	1.70	0.72
1:A:251:ASP:CB	1:A:252:LEU:HD22	2.19	0.72
1:C:408:ASP:OD1	1:C:409:LEU:HD12	1.88	0.72
1:B:456:LEU:CD2	1:B:460:LEU:HB2	2.19	0.72
1:C:152:GLU:HA	1:C:366:MET:HE1	1.70	0.72
1:A:251:ASP:CB	1:A:252:LEU:HD22	2.19	0.72
1:B:361:PRO:HA	1:B:412:CYS:HB3	1.71	0.72
1:A:401:GLU:OE1	1:A:475:LYS:HD2	1.90	0.72
1:A:235:LYS:HB2	1:A:236:PRO:HD2	1.70	0.72
1:A:408:ASP:OD1	1:A:409:LEU:HD12	1.88	0.72
1:A:421:MET:HE1	1:A:453:GLN:HB2	1.70	0.72
1:C:251:ASP:CB	1:C:252:LEU:HD22	2.19	0.72
1:C:456:LEU:CD2	1:C:460:LEU:HB2	2.19	0.72
1:B:403:PRO:HB2	1:B:406:ARG:HG3	1.70	0.72
1:A:456:LEU:CD2	1:A:460:LEU:HB2	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:469:LEU:O	1:B:469:LEU:HD13	1.90	0.72
1:A:469:LEU:HD13	1:A:469:LEU:O	1.90	0.72
1:A:142:TYR:CZ	1:A:142:TYR:CG	2.76	0.72
1:B:456:LEU:CD2	1:B:460:LEU:HB2	2.19	0.72
1:B:401:GLU:OE1	1:B:475:LYS:HD2	1.90	0.72
1:B:249:THR:HG22	1:B:271:CYS:H	1.55	0.72
1:C:151:LYS:HG3	1:C:367:THR:HG22	1.72	0.72
1:C:469:LEU:HD13	1:C:469:LEU:O	1.90	0.72
1:B:356:TRP:HE1	1:B:360:ARG:CD	2.00	0.72
1:B:152:GLU:HA	1:B:366:MET:HE1	1.71	0.72
1:C:403:PRO:HB2	1:C:406:ARG:HG3	1.70	0.72
1:C:401:GLU:OE1	1:C:475:LYS:HD2	1.90	0.72
1:C:235:LYS:HB2	1:C:236:PRO:HD2	1.70	0.72
1:B:456:LEU:CD2	1:B:460:LEU:HB2	2.19	0.72
1:A:151:LYS:HG3	1:A:367:THR:HG22	1.72	0.72
1:C:469:LEU:O	1:C:469:LEU:HD13	1.90	0.72
1:A:456:LEU:CD2	1:A:460:LEU:HB2	2.19	0.72
1:C:151:LYS:HG3	1:C:367:THR:HG22	1.72	0.71
1:A:403:PRO:HB2	1:A:406:ARG:HG3	1.70	0.71
1:B:469:LEU:HD13	1:B:469:LEU:O	1.90	0.71
1:B:401:GLU:OE1	1:B:475:LYS:HD2	1.90	0.71
1:B:251:ASP:CB	1:B:252:LEU:HD22	2.19	0.71
1:C:361:PRO:HA	1:C:412:CYS:HB3	1.71	0.71
1:A:235:LYS:HB2	1:A:236:PRO:HD2	1.70	0.71
1:B:469:LEU:O	1:B:469:LEU:HD13	1.90	0.71
1:B:401:GLU:OE1	1:B:475:LYS:HD2	1.90	0.71
1:C:235:LYS:HB2	1:C:236:PRO:HD2	1.70	0.71
1:C:401:GLU:OE1	1:C:475:LYS:HD2	1.90	0.71
1:A:300:PHE:HB3	1:A:409:LEU:HD21	1.71	0.71
1:A:469:LEU:O	1:A:469:LEU:HD13	1.90	0.71
1:A:401:GLU:OE1	1:A:475:LYS:HD2	1.90	0.71
1:A:469:LEU:O	1:A:469:LEU:HD13	1.90	0.71
1:B:421:MET:HE1	1:B:453:GLN:HB2	1.72	0.71
1:A:356:TRP:NE1	1:A:360:ARG:HD3	2.04	0.71
1:B:251:ASP:CB	1:B:252:LEU:HD22	2.19	0.71
1:A:235:LYS:HB2	1:A:236:PRO:HD2	1.70	0.71
1:C:469:LEU:HD13	1:C:469:LEU:O	1.90	0.71
1:C:469:LEU:O	1:C:469:LEU:HD13	1.90	0.71
1:B:356:TRP:NE1	1:B:360:ARG:HD3	2.04	0.71
1:A:340:THR:HG21	1:A:357:VAL:HG11	1.70	0.71
1:C:251:ASP:CB	1:C:252:LEU:HD22	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:366:MET:HA	1:C:366:MET:HE2	1.72	0.71
1:A:401:GLU:OE1	1:A:475:LYS:HD2	1.90	0.71
1:B:235:LYS:HB2	1:B:236:PRO:HD2	1.70	0.71
1:C:300:PHE:HB3	1:C:409:LEU:HD21	1.71	0.71
1:B:408:ASP:OD1	1:B:409:LEU:HD12	1.88	0.71
1:B:456:LEU:CD2	1:B:460:LEU:HB2	2.19	0.71
1:A:249:THR:HG22	1:A:271:CYS:H	1.55	0.71
1:A:151:LYS:HG3	1:A:367:THR:HG22	1.72	0.71
1:B:249:THR:HG22	1:B:271:CYS:H	1.55	0.71
1:B:235:LYS:HB2	1:B:236:PRO:HD2	1.70	0.71
1:C:251:ASP:CB	1:C:252:LEU:HD22	2.19	0.71
1:B:151:LYS:HG3	1:B:367:THR:HG22	1.72	0.71
1:C:343:ASN:C	1:C:344:LEU:HD12	2.11	0.71
1:C:356:TRP:NE1	1:C:360:ARG:HD3	2.04	0.71
1:C:249:THR:HG22	1:C:271:CYS:H	1.55	0.71
1:C:343:ASN:C	1:C:344:LEU:HD12	2.11	0.71
1:C:401:GLU:OE1	1:C:475:LYS:HD2	1.90	0.71
1:A:469:LEU:HD13	1:A:469:LEU:O	1.90	0.71
1:B:469:LEU:HD13	1:B:469:LEU:O	1.90	0.71
1:C:249:THR:HG22	1:C:271:CYS:H	1.55	0.71
1:A:361:PRO:HA	1:A:412:CYS:HB3	1.71	0.71
1:A:401:GLU:OE1	1:A:475:LYS:HD2	1.90	0.71
1:A:151:LYS:HG3	1:A:367:THR:HG22	1.72	0.71
1:C:249:THR:HG22	1:C:271:CYS:H	1.56	0.71
1:B:151:LYS:HG3	1:B:367:THR:HG22	1.72	0.70
1:C:249:THR:HG22	1:C:271:CYS:H	1.55	0.70
1:C:152:GLU:HA	1:C:366:MET:HE1	1.73	0.70
1:A:249:THR:HG22	1:A:271:CYS:H	1.55	0.70
1:A:249:THR:HG22	1:A:271:CYS:H	1.56	0.70
1:A:152:GLU:HG2	1:A:153:ASN:O	1.91	0.70
1:C:152:GLU:HG2	1:C:153:ASN:O	1.91	0.70
1:C:366:MET:HA	1:C:366:MET:HE2	1.72	0.70
1:B:343:ASN:C	1:B:344:LEU:HD12	2.11	0.70
1:C:363:VAL:HB	1:C:412:CYS:HB3	1.74	0.70
1:B:357:VAL:HG23	1:B:359:LYS:H	1.56	0.70
1:A:249:THR:HG22	1:A:271:CYS:H	1.55	0.70
1:C:357:VAL:HG23	1:C:359:LYS:H	1.56	0.70
1:B:151:LYS:HG3	1:B:367:THR:HG22	1.72	0.70
1:B:343:ASN:C	1:B:344:LEU:HD12	2.11	0.70
1:C:401:GLU:OE1	1:C:475:LYS:HD2	1.90	0.70
1:B:343:ASN:C	1:B:344:LEU:HD12	2.11	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:343:ASN:C	1:C:344:LEU:HD12	2.11	0.70
1:A:175:PHE:CG	1:A:258:ARG:HG3	2.27	0.70
1:A:151:LYS:HG3	1:A:367:THR:HG22	1.72	0.70
1:B:152:GLU:HG2	1:B:153:ASN:O	1.91	0.70
1:A:363:VAL:HB	1:A:412:CYS:HB3	1.74	0.70
1:C:175:PHE:CG	1:C:258:ARG:HG3	2.26	0.70
1:A:175:PHE:CG	1:A:258:ARG:HG3	2.27	0.70
1:B:343:ASN:C	1:B:344:LEU:HD12	2.11	0.70
1:B:175:PHE:CG	1:B:258:ARG:HG3	2.27	0.70
1:C:303:TYR:CD2	1:C:321:GLN:HG2	2.27	0.70
1:A:357:VAL:HG23	1:A:359:LYS:H	1.56	0.70
1:B:401:GLU:OE1	1:B:475:LYS:HD2	1.90	0.70
1:C:303:TYR:CD2	1:C:321:GLN:HG2	2.27	0.70
1:A:303:TYR:CD2	1:A:321:GLN:HG2	2.27	0.70
1:A:343:ASN:C	1:A:344:LEU:HD12	2.11	0.70
1:B:151:LYS:HG3	1:B:367:THR:HG22	1.72	0.70
1:B:249:THR:HG22	1:B:271:CYS:H	1.56	0.69
1:C:175:PHE:CG	1:C:258:ARG:HG3	2.27	0.69
1:C:151:LYS:HG3	1:C:367:THR:HG22	1.72	0.69
1:A:303:TYR:CD2	1:A:321:GLN:HG2	2.27	0.69
1:B:175:PHE:CG	1:B:258:ARG:HG3	2.27	0.69
1:C:303:TYR:CD2	1:C:321:GLN:HG2	2.27	0.69
1:C:343:ASN:C	1:C:344:LEU:HD12	2.11	0.69
1:B:152:GLU:HA	1:B:366:MET:HE1	1.74	0.69
1:B:303:TYR:CD2	1:B:321:GLN:HG2	2.27	0.69
1:B:277:ASP:OD1	1:B:290:ALA:HB2	1.92	0.69
1:C:175:PHE:CG	1:C:258:ARG:HG3	2.27	0.69
1:B:175:PHE:CG	1:B:258:ARG:HG3	2.27	0.69
1:A:343:ASN:C	1:A:344:LEU:HD12	2.11	0.69
1:A:363:VAL:CB	1:A:364:CYS:HA	2.17	0.69
1:C:303:TYR:CD2	1:C:321:GLN:HG2	2.27	0.69
1:A:175:PHE:CG	1:A:258:ARG:HG3	2.27	0.69
1:A:343:ASN:C	1:A:344:LEU:HD12	2.11	0.69
1:C:277:ASP:OD1	1:C:290:ALA:HB2	1.92	0.69
1:A:277:ASP:OD1	1:A:290:ALA:HB2	1.92	0.69
1:A:343:ASN:C	1:A:344:LEU:HD12	2.11	0.69
1:A:303:TYR:CD2	1:A:321:GLN:HG2	2.27	0.69
1:C:277:ASP:OD1	1:C:290:ALA:HB2	1.92	0.69
1:C:277:ASP:OD1	1:C:290:ALA:HB2	1.92	0.69
1:B:277:ASP:OD1	1:B:290:ALA:HB2	1.93	0.69
1:B:277:ASP:OD1	1:B:290:ALA:HB2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:249:THR:HG22	1:B:271:CYS:H	1.56	0.69
1:B:360:ARG:CZ	1:B:415:LYS:HB3	2.22	0.69
1:C:151:LYS:HG3	1:C:367:THR:HG22	1.72	0.69
1:C:360:ARG:CZ	1:C:415:LYS:HB3	2.22	0.69
1:B:303:TYR:CD2	1:B:321:GLN:HG2	2.27	0.69
1:A:172:GLN:CG	1:A:183:MET:HB2	2.22	0.69
1:B:277:ASP:OD1	1:B:290:ALA:HB2	1.92	0.69
1:C:175:PHE:CG	1:C:258:ARG:HG3	2.27	0.69
1:A:175:PHE:CG	1:A:258:ARG:HG3	2.27	0.69
1:A:277:ASP:OD1	1:A:290:ALA:HB2	1.93	0.69
1:C:277:ASP:OD1	1:C:290:ALA:HB2	1.93	0.69
1:C:152:GLU:HA	1:C:366:MET:HE1	1.73	0.69
1:B:366:MET:HE2	1:B:366:MET:HA	1.75	0.69
1:C:388:SER:OG	1:C:391:ILE:HB	1.93	0.69
1:A:277:ASP:OD1	1:A:290:ALA:HB2	1.92	0.69
1:B:303:TYR:CD2	1:B:321:GLN:HG2	2.27	0.69
1:A:388:SER:OG	1:A:391:ILE:HB	1.93	0.69
1:C:388:SER:OG	1:C:391:ILE:HB	1.93	0.68
1:B:303:TYR:CD2	1:B:321:GLN:HG2	2.27	0.68
1:B:388:SER:OG	1:B:391:ILE:HB	1.93	0.68
1:C:388:SER:OG	1:C:391:ILE:HB	1.93	0.68
1:A:303:TYR:CD2	1:A:321:GLN:HG2	2.27	0.68
1:B:388:SER:OG	1:B:391:ILE:HB	1.93	0.68
1:C:153:ASN:HB3	1:C:364:CYS:O	1.93	0.68
1:A:277:ASP:OD1	1:A:290:ALA:HB2	1.92	0.68
1:A:360:ARG:CZ	1:A:415:LYS:HB3	2.22	0.68
1:B:175:PHE:CG	1:B:258:ARG:HG3	2.27	0.68
1:A:303:TYR:HD2	1:A:321:GLN:HG2	1.59	0.68
1:B:363:VAL:HB	1:B:412:CYS:HB3	1.73	0.68
1:A:153:ASN:HB3	1:A:364:CYS:O	1.93	0.68
1:C:153:ASN:HB3	1:C:364:CYS:O	1.93	0.68
1:C:303:TYR:HD2	1:C:321:GLN:HG2	1.59	0.68
1:B:204:LYS:CB	1:B:206:VAL:HG22	2.24	0.68
1:C:303:TYR:HD2	1:C:321:GLN:HG2	1.59	0.68
1:C:377:ARG:HD3	1:C:384:PHE:CE1	2.29	0.68
1:C:377:ARG:HD3	1:C:384:PHE:CE1	2.29	0.68
1:A:388:SER:OG	1:A:391:ILE:HB	1.93	0.68
1:B:377:ARG:HD3	1:B:384:PHE:CE1	2.29	0.68
1:C:204:LYS:CB	1:C:206:VAL:HG22	2.24	0.68
1:C:204:LYS:CB	1:C:206:VAL:HG22	2.24	0.68
1:B:357:VAL:HG23	1:B:359:LYS:CB	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:388:SER:OG	1:B:391:ILE:HB	1.93	0.68
1:A:363:VAL:CB	1:A:364:CYS:HA	2.18	0.68
1:B:204:LYS:CB	1:B:206:VAL:HG22	2.24	0.68
1:C:377:ARG:HD3	1:C:384:PHE:CE1	2.29	0.68
1:A:163:MET:SD	1:A:289:LEU:HD13	2.34	0.68
1:B:153:ASN:HB3	1:B:364:CYS:O	1.93	0.68
1:C:388:SER:OG	1:C:391:ILE:HB	1.93	0.68
1:C:364:CYS:HA	1:C:412:CYS:SG	2.34	0.68
1:A:303:TYR:HD2	1:A:321:GLN:HG2	1.59	0.68
1:A:172:GLN:CG	1:A:183:MET:HB2	2.22	0.68
1:A:163:MET:SD	1:A:289:LEU:HD13	2.34	0.68
1:B:377:ARG:HD3	1:B:384:PHE:CE1	2.29	0.68
1:B:377:ARG:HD3	1:B:384:PHE:CE1	2.29	0.68
1:C:163:MET:SD	1:C:289:LEU:HD13	2.34	0.68
1:B:388:SER:OG	1:B:391:ILE:HB	1.93	0.68
1:A:357:VAL:HG23	1:A:359:LYS:CB	2.24	0.68
1:B:204:LYS:CB	1:B:206:VAL:HG22	2.24	0.68
1:C:204:LYS:CB	1:C:206:VAL:HG22	2.24	0.68
1:A:303:TYR:HD2	1:A:321:GLN:HG2	1.59	0.67
1:A:153:ASN:HB3	1:A:364:CYS:O	1.93	0.67
1:A:204:LYS:CB	1:A:206:VAL:HG22	2.24	0.67
1:A:388:SER:OG	1:A:391:ILE:HB	1.93	0.67
1:B:364:CYS:HA	1:B:412:CYS:SG	2.34	0.67
1:A:366:MET:HE2	1:A:366:MET:HA	1.76	0.67
1:A:429:TYR:HD1	1:A:433:HIS:CD2	2.13	0.67
1:A:377:ARG:HD3	1:A:384:PHE:CE1	2.29	0.67
1:C:163:MET:SD	1:C:289:LEU:HD13	2.34	0.67
1:B:429:TYR:HD1	1:B:433:HIS:CD2	2.13	0.67
1:A:388:SER:OG	1:A:391:ILE:HB	1.93	0.67
1:C:429:TYR:HD1	1:C:433:HIS:CD2	2.13	0.67
1:A:429:TYR:HD1	1:A:433:HIS:CD2	2.13	0.67
1:A:429:TYR:HD1	1:A:433:HIS:CD2	2.13	0.67
1:B:153:ASN:HB3	1:B:364:CYS:O	1.93	0.67
1:B:303:TYR:HD2	1:B:321:GLN:HG2	1.59	0.67
1:B:363:VAL:CB	1:B:364:CYS:HA	2.17	0.67
1:A:251:ASP:HB2	1:A:252:LEU:HD22	1.77	0.67
1:A:377:ARG:HD3	1:A:384:PHE:CE1	2.29	0.67
1:C:163:MET:SD	1:C:289:LEU:HD13	2.34	0.67
1:B:429:TYR:HD1	1:B:433:HIS:CD2	2.13	0.67
1:A:204:LYS:CB	1:A:206:VAL:HG22	2.24	0.67
1:A:303:TYR:HD2	1:A:321:GLN:HG2	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:357:VAL:HG23	1:B:359:LYS:H	1.60	0.67
1:C:365:THR:HG21	1:C:408:ASP:O	1.94	0.67
1:A:172:GLN:CG	1:A:183:MET:HB2	2.22	0.67
1:B:429:TYR:HD1	1:B:433:HIS:CD2	2.13	0.67
1:C:204:LYS:CB	1:C:206:VAL:HG22	2.24	0.67
1:C:429:TYR:HD1	1:C:433:HIS:CD2	2.13	0.67
1:C:152:GLU:HA	1:C:366:MET:HE1	1.75	0.67
1:C:366:MET:HE2	1:C:366:MET:HA	1.76	0.67
1:A:377:ARG:HD3	1:A:384:PHE:CE1	2.29	0.67
1:C:163:MET:SD	1:C:289:LEU:HD13	2.34	0.67
1:A:152:GLU:HA	1:A:366:MET:HE1	1.76	0.67
1:B:163:MET:SD	1:B:289:LEU:HD13	2.34	0.67
1:B:163:MET:SD	1:B:289:LEU:HD13	2.34	0.67
1:A:357:VAL:HG23	1:A:359:LYS:H	1.60	0.67
1:B:163:MET:SD	1:B:289:LEU:HD13	2.34	0.67
1:B:365:THR:HG21	1:B:408:ASP:O	1.94	0.67
1:A:204:LYS:CB	1:A:206:VAL:HG22	2.24	0.67
1:A:377:ARG:HD3	1:A:384:PHE:CE1	2.29	0.67
1:C:377:ARG:HD3	1:C:384:PHE:CE1	2.29	0.67
1:A:172:GLN:CG	1:A:183:MET:HB2	2.22	0.67
1:A:364:CYS:HA	1:A:412:CYS:SG	2.34	0.67
1:A:401:GLU:HA	1:A:442:TYR:HD1	1.60	0.67
1:A:365:THR:HG21	1:A:408:ASP:O	1.94	0.67
1:C:401:GLU:HA	1:C:442:TYR:HD1	1.60	0.67
1:C:429:TYR:HD1	1:C:433:HIS:CD2	2.13	0.67
1:C:359:LYS:HG2	1:C:411:ASP:OD2	1.95	0.67
1:A:204:LYS:CB	1:A:206:VAL:HG22	2.24	0.67
1:A:401:GLU:HA	1:A:442:TYR:HD1	1.60	0.67
1:B:357:VAL:CG2	1:B:358:PRO:HA	2.22	0.67
1:C:401:GLU:HA	1:C:442:TYR:HD1	1.60	0.67
1:A:163:MET:SD	1:A:289:LEU:HD13	2.34	0.66
1:B:251:ASP:HB2	1:B:252:LEU:HD22	1.77	0.66
1:B:359:LYS:HG2	1:B:411:ASP:OD2	1.95	0.66
1:C:401:GLU:HA	1:C:442:TYR:HD1	1.60	0.66
1:B:163:MET:SD	1:B:289:LEU:HD13	2.34	0.66
1:B:303:TYR:HD2	1:B:321:GLN:HG2	1.59	0.66
1:C:429:TYR:HD1	1:C:433:HIS:CD2	2.13	0.66
1:B:401:GLU:HA	1:B:442:TYR:HD1	1.60	0.66
1:B:377:ARG:HD3	1:B:384:PHE:CE1	2.29	0.66
1:A:251:ASP:HB2	1:A:252:LEU:HD22	1.77	0.66
1:B:429:TYR:HD1	1:B:433:HIS:CD2	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:204:LYS:CB	1:B:206:VAL:HG22	2.24	0.66
1:B:251:ASP:HB2	1:B:252:LEU:HD22	1.77	0.66
1:B:401:GLU:HA	1:B:442:TYR:HD1	1.60	0.66
1:B:401:GLU:HA	1:B:442:TYR:HD1	1.60	0.66
1:C:357:VAL:HG23	1:C:359:LYS:H	1.60	0.66
1:B:303:TYR:HD2	1:B:321:GLN:HG2	1.59	0.66
1:A:163:MET:SD	1:A:289:LEU:HD13	2.34	0.66
1:A:401:GLU:HA	1:A:442:TYR:HD1	1.60	0.66
1:B:303:TYR:HD2	1:B:321:GLN:HG2	1.59	0.66
1:C:152:GLU:HA	1:C:366:MET:HE2	1.76	0.66
1:C:249:THR:CG2	1:C:271:CYS:H	2.09	0.66
1:C:356:TRP:O	1:C:357:VAL:HG13	1.96	0.66
1:A:357:VAL:CG2	1:A:358:PRO:HA	2.22	0.66
1:C:172:GLN:CG	1:C:183:MET:HB2	2.22	0.66
1:A:251:ASP:HB2	1:A:252:LEU:HD22	1.77	0.66
1:C:172:GLN:CG	1:C:183:MET:HB2	2.22	0.66
1:C:194:PHE:O	1:C:197:VAL:HG12	1.96	0.66
1:A:249:THR:CG2	1:A:271:CYS:H	2.09	0.66
1:C:251:ASP:HB2	1:C:252:LEU:HD22	1.77	0.66
1:A:356:TRP:O	1:A:357:VAL:HG13	1.96	0.66
1:A:429:TYR:HD1	1:A:433:HIS:CD2	2.13	0.66
1:B:249:THR:CG2	1:B:271:CYS:H	2.09	0.66
1:B:194:PHE:O	1:B:197:VAL:HG12	1.96	0.66
1:B:401:GLU:HA	1:B:442:TYR:HD1	1.60	0.66
1:B:194:PHE:O	1:B:197:VAL:HG12	1.96	0.66
1:A:152:GLU:HA	1:A:366:MET:HE2	1.76	0.66
1:A:249:THR:CG2	1:A:271:CYS:H	2.09	0.66
1:A:359:LYS:HG2	1:A:411:ASP:OD2	1.95	0.66
1:A:456:LEU:HD22	1:A:457:SER:O	1.96	0.66
1:A:194:PHE:O	1:A:197:VAL:HG12	1.96	0.66
1:C:194:PHE:O	1:C:197:VAL:HG12	1.96	0.66
1:C:194:PHE:O	1:C:197:VAL:HG12	1.96	0.66
1:C:303:TYR:HD2	1:C:321:GLN:HG2	1.59	0.66
1:A:249:THR:CG2	1:A:271:CYS:H	2.09	0.66
1:A:194:PHE:O	1:A:197:VAL:HG12	1.96	0.65
1:C:456:LEU:HD22	1:C:457:SER:O	1.96	0.65
1:A:357:VAL:CG2	1:A:359:LYS:HB2	2.26	0.65
1:C:172:GLN:CG	1:C:183:MET:HB2	2.22	0.65
1:A:194:PHE:O	1:A:197:VAL:HG12	1.96	0.65
1:A:251:ASP:HB2	1:A:252:LEU:HD22	1.77	0.65
1:B:249:THR:CG2	1:B:271:CYS:H	2.09	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:456:LEU:HD22	1:A:457:SER:O	1.97	0.65
1:B:251:ASP:HB2	1:B:252:LEU:HD22	1.77	0.65
1:C:249:THR:CG2	1:C:271:CYS:H	2.09	0.65
1:A:249:THR:CG2	1:A:271:CYS:H	2.09	0.65
1:B:359:LYS:HE3	1:B:415:LYS:HZ3	1.61	0.65
1:C:357:VAL:HG23	1:C:359:LYS:CB	2.24	0.65
1:B:456:LEU:HD22	1:B:457:SER:O	1.97	0.65
1:C:303:TYR:HD2	1:C:321:GLN:HG2	1.59	0.65
1:A:300:PHE:HD1	1:A:360:ARG:CD	2.09	0.65
1:A:366:MET:HA	1:A:366:MET:CE	2.27	0.65
1:C:249:THR:CG2	1:C:271:CYS:H	2.09	0.65
1:C:194:PHE:O	1:C:197:VAL:HG12	1.96	0.65
1:A:366:MET:CE	1:A:366:MET:HA	2.27	0.65
1:B:366:MET:CE	1:B:366:MET:HA	2.27	0.65
1:A:329:ASP:HB3	1:A:332:THR:OG1	1.97	0.65
1:B:456:LEU:HD22	1:B:457:SER:O	1.97	0.65
1:A:456:LEU:HD22	1:A:457:SER:O	1.97	0.65
1:C:251:ASP:HB2	1:C:252:LEU:HD22	1.77	0.65
1:B:456:LEU:HD22	1:B:457:SER:O	1.97	0.65
1:C:251:ASP:HB2	1:C:252:LEU:HD22	1.77	0.65
1:C:382:GLY:C	1:C:399:LEU:HD11	2.17	0.65
1:A:329:ASP:HB3	1:A:332:THR:OG1	1.97	0.65
1:C:382:GLY:C	1:C:399:LEU:HD11	2.17	0.65
1:C:401:GLU:HA	1:C:442:TYR:HD1	1.60	0.65
1:C:249:THR:CG2	1:C:271:CYS:H	2.09	0.65
1:B:382:GLY:C	1:B:399:LEU:HD11	2.18	0.65
1:B:329:ASP:HB3	1:B:332:THR:OG1	1.97	0.65
1:B:356:TRP:O	1:B:357:VAL:HG13	1.96	0.65
1:B:300:PHE:HD1	1:B:360:ARG:CD	2.09	0.65
1:B:456:LEU:HD22	1:B:457:SER:O	1.97	0.65
1:C:300:PHE:HD1	1:C:360:ARG:CD	2.09	0.65
1:C:329:ASP:HB3	1:C:332:THR:OG1	1.97	0.65
1:A:194:PHE:O	1:A:197:VAL:HG12	1.96	0.65
1:B:329:ASP:HB3	1:B:332:THR:OG1	1.97	0.65
1:B:382:GLY:C	1:B:399:LEU:HD11	2.17	0.65
1:C:251:ASP:HB2	1:C:252:LEU:HD22	1.77	0.65
1:A:401:GLU:HA	1:A:442:TYR:HD1	1.60	0.65
1:A:456:LEU:HD22	1:A:457:SER:O	1.97	0.65
1:B:249:THR:CG2	1:B:271:CYS:H	2.09	0.65
1:B:251:ASP:HB2	1:B:252:LEU:HD22	1.77	0.64
1:B:382:GLY:C	1:B:399:LEU:HD11	2.17	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:356:TRP:CZ3	1:B:362:SER:HB2	2.32	0.64
1:A:329:ASP:HB3	1:A:332:THR:OG1	1.97	0.64
1:B:366:MET:CE	1:B:366:MET:HA	2.27	0.64
1:C:329:ASP:HB3	1:C:332:THR:OG1	1.97	0.64
1:A:382:GLY:C	1:A:399:LEU:HD11	2.17	0.64
1:B:357:VAL:HG13	1:B:358:PRO:N	2.13	0.64
1:B:152:GLU:HA	1:B:366:MET:HE2	1.77	0.64
1:C:172:GLN:CG	1:C:183:MET:HB2	2.22	0.64
1:C:382:GLY:C	1:C:399:LEU:HD11	2.18	0.64
1:B:172:GLN:CG	1:B:183:MET:HB2	2.22	0.64
1:B:172:GLN:CG	1:B:183:MET:HB2	2.22	0.64
1:C:366:MET:HA	1:C:366:MET:CE	2.27	0.64
1:A:357:VAL:HG13	1:A:358:PRO:N	2.13	0.64
1:A:366:MET:CE	1:A:366:MET:HA	2.27	0.64
1:A:382:GLY:C	1:A:399:LEU:HD11	2.17	0.64
1:B:152:GLU:HA	1:B:366:MET:HE2	1.80	0.64
1:C:356:TRP:CZ3	1:C:362:SER:HB2	2.33	0.64
1:C:366:MET:HA	1:C:366:MET:CE	2.27	0.64
1:C:357:VAL:HG23	1:C:359:LYS:CB	2.27	0.64
1:C:366:MET:CE	1:C:366:MET:HA	2.27	0.64
1:A:382:GLY:C	1:A:399:LEU:HD11	2.18	0.64
1:B:194:PHE:O	1:B:197:VAL:HG12	1.96	0.64
1:B:249:THR:CG2	1:B:271:CYS:H	2.09	0.64
1:B:357:VAL:HG23	1:B:359:LYS:CB	2.27	0.64
1:B:357:VAL:CG2	1:B:359:LYS:HB2	2.26	0.64
1:C:382:GLY:C	1:C:399:LEU:HD11	2.17	0.64
1:C:329:ASP:HB3	1:C:332:THR:OG1	1.97	0.64
1:C:456:LEU:HD22	1:C:457:SER:O	1.97	0.64
1:A:329:ASP:HB3	1:A:332:THR:OG1	1.97	0.64
1:C:456:LEU:HD22	1:C:457:SER:O	1.97	0.64
1:B:194:PHE:O	1:B:197:VAL:HG12	1.96	0.64
1:B:382:GLY:C	1:B:399:LEU:HD11	2.18	0.64
1:A:356:TRP:CZ3	1:A:362:SER:HB2	2.32	0.64
1:A:366:MET:HA	1:A:366:MET:CE	2.27	0.64
1:B:357:VAL:HB	1:B:358:PRO:CD	2.28	0.64
1:B:366:MET:HA	1:B:366:MET:CE	2.27	0.64
1:C:357:VAL:CG2	1:C:359:LYS:HB2	2.26	0.64
1:B:172:GLN:CG	1:B:183:MET:HB2	2.22	0.64
1:A:357:VAL:HG23	1:A:359:LYS:CB	2.27	0.64
1:C:456:LEU:HD22	1:C:457:SER:O	1.97	0.64
1:B:403:PRO:HB2	1:B:406:ARG:CD	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:366:MET:CE	1:C:366:MET:HA	2.27	0.64
1:C:152:GLU:HA	1:C:366:MET:HE2	1.79	0.64
1:B:329:ASP:HB3	1:B:332:THR:OG1	1.97	0.63
1:B:329:ASP:HB3	1:B:332:THR:OG1	1.97	0.63
1:B:403:PRO:HB2	1:B:406:ARG:CD	2.29	0.63
1:A:382:GLY:C	1:A:399:LEU:HD11	2.17	0.63
1:A:304:ARG:HD3	1:A:356:TRP:HZ3	1.63	0.63
1:C:152:GLU:HA	1:C:366:MET:HE2	1.79	0.63
1:C:329:ASP:HB3	1:C:332:THR:OG1	1.97	0.63
1:C:355:ASP:HB3	1:C:357:VAL:CG1	2.29	0.63
1:A:403:PRO:HB2	1:A:406:ARG:CD	2.28	0.63
1:C:403:PRO:HB2	1:C:406:ARG:CD	2.28	0.63
1:A:403:PRO:HB2	1:A:406:ARG:CG	2.29	0.63
1:C:403:PRO:HB2	1:C:406:ARG:CD	2.28	0.63
1:A:363:VAL:HG11	1:A:411:ASP:CA	2.29	0.63
1:B:366:MET:CE	1:B:366:MET:HA	2.27	0.63
1:A:403:PRO:HB2	1:A:406:ARG:CG	2.29	0.63
1:A:429:TYR:HD1	1:A:433:HIS:HD2	1.47	0.63
1:B:304:ARG:HD3	1:B:356:TRP:CE3	2.33	0.63
1:A:403:PRO:HB2	1:A:406:ARG:CD	2.29	0.63
1:B:360:ARG:NH2	1:B:415:LYS:HB3	2.14	0.63
1:C:403:PRO:HB2	1:C:406:ARG:CG	2.29	0.63
1:C:363:VAL:HG11	1:C:411:ASP:CA	2.29	0.63
1:A:403:PRO:HB2	1:A:406:ARG:CD	2.28	0.63
1:A:429:TYR:HD1	1:A:433:HIS:HD2	1.46	0.63
1:C:429:TYR:HD1	1:C:433:HIS:HD2	1.46	0.63
1:C:356:TRP:NE1	1:C:360:ARG:HD3	2.09	0.63
1:A:304:ARG:HD3	1:A:356:TRP:CE3	2.33	0.63
1:B:403:PRO:HB2	1:B:406:ARG:CD	2.28	0.63
1:B:403:PRO:HB2	1:B:406:ARG:CG	2.29	0.63
1:B:403:PRO:HB2	1:B:406:ARG:CG	2.29	0.63
1:C:357:VAL:HG13	1:C:358:PRO:N	2.13	0.63
1:B:421:MET:HE2	1:B:453:GLN:HB2	1.81	0.63
1:A:329:ASP:OD1	1:A:331:THR:HG22	1.99	0.63
1:C:357:VAL:HB	1:C:358:PRO:CD	2.28	0.63
1:C:403:PRO:HB2	1:C:406:ARG:CD	2.28	0.63
1:B:157:TYR:CE1	1:B:363:VAL:HG13	2.34	0.63
1:B:429:TYR:HD1	1:B:433:HIS:HD2	1.46	0.63
1:B:396:THR:HB	1:B:445:ASN:OD1	1.99	0.63
1:B:363:VAL:HG11	1:B:411:ASP:CA	2.29	0.63
1:C:363:VAL:HG11	1:C:412:CYS:N	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:329:ASP:OD1	1:B:331:THR:HG22	1.99	0.63
1:A:329:ASP:OD1	1:A:331:THR:HG22	1.99	0.62
1:A:403:PRO:HB2	1:A:406:ARG:CG	2.28	0.62
1:C:396:THR:HB	1:C:445:ASN:OD1	1.99	0.62
1:C:359:LYS:HE3	1:C:415:LYS:HZ3	1.64	0.62
1:A:164:TYR:HB2	1:A:351:THR:CG2	2.29	0.62
1:A:396:THR:HB	1:A:445:ASN:OD1	1.99	0.62
1:B:359:LYS:HE3	1:B:411:ASP:OD2	2.00	0.62
1:C:304:ARG:HD3	1:C:356:TRP:CE3	2.33	0.62
1:C:396:THR:HB	1:C:445:ASN:OD1	1.99	0.62
1:A:329:ASP:OD1	1:A:331:THR:HG22	1.99	0.62
1:C:403:PRO:HB2	1:C:406:ARG:CG	2.29	0.62
1:A:403:PRO:HB2	1:A:406:ARG:CG	2.29	0.62
1:A:363:VAL:HG11	1:A:412:CYS:N	2.14	0.62
1:A:360:ARG:NH2	1:A:415:LYS:HB3	2.14	0.62
1:A:456:LEU:HD21	1:A:460:LEU:CB	2.29	0.62
1:B:356:TRP:NE1	1:B:360:ARG:HD3	2.09	0.62
1:A:456:LEU:HD21	1:A:460:LEU:CB	2.29	0.62
1:C:403:PRO:HB2	1:C:406:ARG:CG	2.29	0.62
1:A:300:PHE:HB3	1:A:360:ARG:NH1	2.15	0.62
1:B:363:VAL:HG11	1:B:412:CYS:N	2.14	0.62
1:C:360:ARG:NH2	1:C:415:LYS:HB3	2.14	0.62
1:C:363:VAL:CB	1:C:364:CYS:HA	2.17	0.62
1:B:329:ASP:OD1	1:B:331:THR:HG22	1.99	0.62
1:B:438:GLN:HB2	1:B:439:PRO:HD2	1.81	0.62
1:C:157:TYR:CE1	1:C:363:VAL:HG13	2.34	0.62
1:A:355:ASP:HB3	1:A:357:VAL:CG1	2.29	0.62
1:A:403:PRO:HB2	1:A:406:ARG:CD	2.28	0.62
1:C:329:ASP:OD1	1:C:331:THR:HG22	1.99	0.62
1:A:438:GLN:HB2	1:A:439:PRO:HD2	1.81	0.62
1:B:438:GLN:HB2	1:B:439:PRO:HD2	1.81	0.62
1:A:300:PHE:HE1	1:A:363:VAL:HG21	1.64	0.62
1:B:456:LEU:HD21	1:B:460:LEU:CB	2.29	0.62
1:B:356:TRP:HZ3	1:B:362:SER:HB2	1.65	0.62
1:B:438:GLN:HB2	1:B:439:PRO:HD2	1.81	0.62
1:C:403:PRO:HB2	1:C:406:ARG:CD	2.28	0.62
1:C:456:LEU:HD21	1:C:460:LEU:CB	2.29	0.62
1:A:429:TYR:HD1	1:A:433:HIS:HD2	1.46	0.62
1:C:164:TYR:HB2	1:C:351:THR:CG2	2.29	0.62
1:B:429:TYR:HD1	1:B:433:HIS:HD2	1.47	0.62
1:A:438:GLN:HB2	1:A:439:PRO:HD2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:341:THR:OG1	1:C:356:TRP:HB3	2.00	0.62
1:A:359:LYS:HE3	1:A:411:ASP:OD2	2.00	0.62
1:B:456:LEU:HD23	1:B:457:SER:N	2.15	0.62
1:A:429:TYR:HD1	1:A:433:HIS:HD2	1.46	0.62
1:B:403:PRO:HB2	1:B:406:ARG:CG	2.29	0.62
1:B:403:PRO:HB2	1:B:406:ARG:CG	2.29	0.62
1:C:429:TYR:HD1	1:C:433:HIS:HD2	1.46	0.62
1:A:364:CYS:HB3	1:A:366:MET:O	2.00	0.62
1:B:329:ASP:OD1	1:B:331:THR:HG22	1.99	0.62
1:C:438:GLN:HB2	1:C:439:PRO:HD2	1.81	0.62
1:A:360:ARG:CD	1:A:415:LYS:HD3	2.29	0.62
1:A:438:GLN:HB2	1:A:439:PRO:HD2	1.81	0.62
1:B:164:TYR:HB2	1:B:351:THR:CG2	2.29	0.62
1:B:329:ASP:OD1	1:B:331:THR:HG22	1.99	0.62
1:B:360:ARG:CD	1:B:415:LYS:HD3	2.29	0.62
1:C:456:LEU:HD23	1:C:457:SER:N	2.15	0.62
1:A:357:VAL:HB	1:A:358:PRO:CD	2.28	0.62
1:B:172:GLN:CG	1:B:183:MET:HB2	2.22	0.62
1:C:456:LEU:HD21	1:C:460:LEU:CB	2.29	0.62
1:A:157:TYR:CE1	1:A:363:VAL:HG13	2.34	0.62
1:C:357:VAL:HB	1:C:358:PRO:CD	2.30	0.62
1:B:438:GLN:HB2	1:B:439:PRO:HD2	1.82	0.62
1:B:396:THR:HB	1:B:445:ASN:OD1	2.00	0.62
1:A:456:LEU:HD23	1:A:457:SER:N	2.15	0.61
1:B:164:TYR:HB2	1:B:351:THR:CG2	2.29	0.61
1:B:456:LEU:HD21	1:B:460:LEU:CB	2.29	0.61
1:A:396:THR:HB	1:A:445:ASN:OD1	1.99	0.61
1:C:403:PRO:HB2	1:C:406:ARG:CG	2.29	0.61
1:C:396:THR:HB	1:C:445:ASN:OD1	2.00	0.61
1:B:154:ILE:HG23	1:B:155:ALA:N	2.15	0.61
1:A:164:TYR:HB2	1:A:351:THR:CG2	2.29	0.61
1:B:403:PRO:HB2	1:B:406:ARG:CD	2.28	0.61
1:C:329:ASP:OD1	1:C:331:THR:HG22	1.99	0.61
1:A:384:PHE:HB2	1:A:397:THR:HG22	1.83	0.61
1:B:401:GLU:HA	1:B:442:TYR:CD1	2.35	0.61
1:C:360:ARG:CD	1:C:415:LYS:HD3	2.29	0.61
1:A:329:ASP:OD1	1:A:331:THR:HG22	1.99	0.61
1:A:341:THR:OG1	1:A:356:TRP:HB3	2.00	0.61
1:B:429:TYR:HD1	1:B:433:HIS:HD2	1.46	0.61
1:C:384:PHE:HB2	1:C:397:THR:HG22	1.83	0.61
1:C:429:TYR:HD1	1:C:433:HIS:HD2	1.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:PHE:HB2	1:A:397:THR:HG22	1.83	0.61
1:B:456:LEU:HD23	1:B:457:SER:N	2.15	0.61
1:C:384:PHE:HB2	1:C:397:THR:HG22	1.83	0.61
1:C:456:LEU:HD23	1:C:457:SER:N	2.15	0.61
1:A:396:THR:HB	1:A:445:ASN:OD1	1.99	0.61
1:C:329:ASP:OD1	1:C:331:THR:HG22	1.99	0.61
1:C:438:GLN:HB2	1:C:439:PRO:HD2	1.82	0.61
1:A:401:GLU:HA	1:A:442:TYR:CD1	2.35	0.61
1:B:401:GLU:HA	1:B:442:TYR:CD1	2.35	0.61
1:C:401:GLU:HA	1:C:442:TYR:CD1	2.35	0.61
1:A:456:LEU:HD23	1:A:457:SER:N	2.15	0.61
1:C:429:TYR:HD1	1:C:433:HIS:HD2	1.46	0.61
1:A:359:LYS:HE3	1:A:415:LYS:HZ3	1.66	0.61
1:A:146:ILE:HD11	1:A:421:MET:HB2	1.83	0.61
1:C:438:GLN:HB2	1:C:439:PRO:HD2	1.82	0.61
1:A:154:ILE:HG23	1:A:155:ALA:N	2.15	0.61
1:B:401:GLU:HA	1:B:442:TYR:CD1	2.35	0.61
1:C:359:LYS:HE3	1:C:411:ASP:OD2	1.99	0.61
1:B:300:PHE:HB3	1:B:360:ARG:NH1	2.15	0.61
1:C:300:PHE:HB3	1:C:360:ARG:NH1	2.14	0.61
1:C:363:VAL:CB	1:C:364:CYS:HA	2.18	0.61
1:A:356:TRP:HZ3	1:A:362:SER:HB2	1.65	0.61
1:A:401:GLU:HA	1:A:442:TYR:CD1	2.36	0.61
1:B:357:VAL:HG22	1:B:358:PRO:CA	2.25	0.61
1:B:396:THR:HB	1:B:445:ASN:OD1	1.99	0.61
1:B:396:THR:HB	1:B:445:ASN:OD1	1.99	0.61
1:C:329:ASP:OD1	1:C:331:THR:HG22	1.99	0.61
1:C:401:GLU:HA	1:C:442:TYR:CD1	2.35	0.61
1:A:456:LEU:HD23	1:A:457:SER:N	2.15	0.61
1:A:384:PHE:HB2	1:A:397:THR:HG22	1.83	0.61
1:C:456:LEU:HD21	1:C:460:LEU:CB	2.29	0.61
1:A:241:THR:HG23	1:A:242:ARG:N	2.16	0.61
1:C:300:PHE:HE1	1:C:363:VAL:HG21	1.64	0.61
1:A:241:THR:HG23	1:A:242:ARG:N	2.16	0.61
1:A:164:TYR:HB2	1:A:351:THR:CG2	2.29	0.61
1:C:396:THR:HB	1:C:445:ASN:OD1	1.99	0.61
1:A:396:THR:HB	1:A:445:ASN:OD1	2.00	0.61
1:A:456:LEU:HD23	1:A:457:SER:N	2.15	0.61
1:A:456:LEU:HD21	1:A:460:LEU:CB	2.29	0.61
1:B:341:THR:OG1	1:B:356:TRP:HB3	2.00	0.61
1:C:359:LYS:CG	1:C:409:LEU:HA	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:438:GLN:HB2	1:C:439:PRO:HD2	1.82	0.61
1:C:456:LEU:HD23	1:C:457:SER:N	2.15	0.61
1:B:355:ASP:HB3	1:B:357:VAL:CG1	2.29	0.61
1:A:152:GLU:HA	1:A:366:MET:HE2	1.83	0.61
1:A:356:TRP:NE1	1:A:360:ARG:HD3	2.09	0.61
1:C:456:LEU:HD23	1:C:457:SER:N	2.15	0.61
1:A:164:TYR:HB2	1:A:351:THR:CG2	2.29	0.61
1:B:152:GLU:HA	1:B:366:MET:HE2	1.82	0.61
1:C:241:THR:HG23	1:C:242:ARG:N	2.16	0.61
1:B:456:LEU:HD23	1:B:457:SER:N	2.15	0.61
1:B:241:THR:HG23	1:B:242:ARG:N	2.16	0.61
1:A:146:ILE:HD11	1:A:421:MET:HB2	1.83	0.61
1:B:364:CYS:HB3	1:B:366:MET:O	2.00	0.60
1:B:384:PHE:HB2	1:B:397:THR:HG22	1.83	0.60
1:A:401:GLU:HA	1:A:442:TYR:CD1	2.35	0.60
1:B:146:ILE:HD11	1:B:421:MET:HB2	1.83	0.60
1:B:429:TYR:HD1	1:B:433:HIS:HD2	1.47	0.60
1:B:384:PHE:HB2	1:B:397:THR:HG22	1.83	0.60
1:B:401:GLU:HA	1:B:442:TYR:CD1	2.35	0.60
1:B:164:TYR:HB2	1:B:351:THR:CG2	2.29	0.60
1:B:300:PHE:HD1	1:B:360:ARG:CD	2.14	0.60
1:C:300:PHE:HD1	1:C:360:ARG:CD	2.14	0.60
1:A:146:ILE:HD11	1:A:421:MET:HB2	1.83	0.60
1:B:365:THR:HG23	1:B:366:MET:N	2.16	0.60
1:B:359:LYS:CG	1:B:409:LEU:HA	2.31	0.60
1:B:465:VAL:HG23	1:B:466:ARG:N	2.17	0.60
1:C:363:VAL:HG12	1:C:364:CYS:N	2.12	0.60
1:C:465:VAL:HG23	1:C:466:ARG:N	2.17	0.60
1:A:146:ILE:HD11	1:A:421:MET:HB2	1.83	0.60
1:B:154:ILE:HG23	1:B:155:ALA:N	2.16	0.60
1:B:146:ILE:HD11	1:B:421:MET:HB2	1.83	0.60
1:A:365:THR:HG23	1:A:366:MET:N	2.17	0.60
1:B:384:PHE:HB2	1:B:397:THR:HG22	1.83	0.60
1:C:164:TYR:HB2	1:C:351:THR:CG2	2.29	0.60
1:A:401:GLU:HA	1:A:442:TYR:CD1	2.35	0.60
1:B:241:THR:HG23	1:B:242:ARG:N	2.16	0.60
1:A:438:GLN:HB2	1:A:439:PRO:HD2	1.81	0.60
1:C:421:MET:HE2	1:C:453:GLN:HB2	1.83	0.60
1:C:456:LEU:HD21	1:C:460:LEU:CB	2.29	0.60
1:A:300:PHE:HD1	1:A:360:ARG:CD	2.14	0.60
1:B:241:THR:HG23	1:B:242:ARG:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:154:ILE:HG23	1:C:155:ALA:N	2.15	0.60
1:C:241:THR:HG23	1:C:242:ARG:N	2.16	0.60
1:C:364:CYS:HB3	1:C:366:MET:O	2.00	0.60
1:C:365:THR:HG23	1:C:366:MET:N	2.16	0.60
1:A:331:THR:HG23	1:A:332:THR:HG23	1.84	0.60
1:C:241:THR:HG23	1:C:242:ARG:N	2.16	0.60
1:C:357:VAL:CG2	1:C:358:PRO:HA	2.22	0.60
1:A:465:VAL:HG23	1:A:466:ARG:N	2.17	0.60
1:C:146:ILE:HD11	1:C:421:MET:HB2	1.83	0.60
1:A:241:THR:HG23	1:A:242:ARG:N	2.16	0.60
1:B:331:THR:HG23	1:B:332:THR:HG23	1.84	0.60
1:A:465:VAL:HG23	1:A:466:ARG:N	2.17	0.60
1:B:241:THR:HG23	1:B:242:ARG:N	2.16	0.60
1:B:456:LEU:HD21	1:B:460:LEU:CB	2.29	0.60
1:B:456:LEU:HD23	1:B:457:SER:N	2.15	0.60
1:C:146:ILE:HD11	1:C:421:MET:HB2	1.83	0.60
1:C:356:TRP:HZ3	1:C:362:SER:HB2	1.65	0.60
1:C:465:VAL:HG23	1:C:466:ARG:N	2.17	0.60
1:A:241:THR:HG23	1:A:242:ARG:N	2.16	0.60
1:B:331:THR:HG23	1:B:332:THR:HG23	1.84	0.60
1:B:146:ILE:HD11	1:B:421:MET:HB2	1.83	0.60
1:B:146:ILE:HD11	1:B:421:MET:HB2	1.83	0.60
1:A:465:VAL:HG23	1:A:466:ARG:N	2.17	0.60
1:C:154:ILE:HG23	1:C:155:ALA:N	2.16	0.60
1:C:152:GLU:HA	1:C:366:MET:HE2	1.82	0.60
1:C:259:VAL:HG23	1:C:262:PHE:HB2	1.83	0.60
1:C:331:THR:HG23	1:C:332:THR:HG23	1.84	0.60
1:C:384:PHE:HB2	1:C:397:THR:HG22	1.83	0.60
1:A:357:VAL:CG2	1:A:409:LEU:HD21	2.32	0.60
1:C:331:THR:HG23	1:C:332:THR:HG23	1.84	0.60
1:A:331:THR:HG23	1:A:332:THR:HG23	1.84	0.60
1:C:241:THR:HG23	1:C:242:ARG:N	2.16	0.60
1:C:259:VAL:HG23	1:C:262:PHE:HB2	1.83	0.60
1:C:384:PHE:HB2	1:C:397:THR:HG22	1.83	0.60
1:C:401:GLU:HA	1:C:442:TYR:CD1	2.35	0.60
1:C:331:THR:HG23	1:C:332:THR:HG23	1.84	0.60
1:B:331:THR:HG23	1:B:332:THR:HG23	1.84	0.59
1:A:154:ILE:HG23	1:A:155:ALA:N	2.17	0.59
1:B:259:VAL:HG23	1:B:262:PHE:HB2	1.83	0.59
1:C:164:TYR:HB2	1:C:351:THR:CG2	2.29	0.59
1:B:384:PHE:HB2	1:B:397:THR:HG22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:154:ILE:HG13	1:C:155:ALA:N	2.17	0.59
1:C:356:TRP:O	1:C:357:VAL:HG13	2.02	0.59
1:A:421:MET:HE2	1:A:453:GLN:HB2	1.83	0.59
1:C:259:VAL:HG23	1:C:262:PHE:HB2	1.83	0.59
1:A:357:VAL:HG22	1:A:358:PRO:CA	2.25	0.59
1:B:465:VAL:HG23	1:B:466:ARG:N	2.17	0.59
1:A:359:LYS:CG	1:A:409:LEU:HA	2.31	0.59
1:A:456:LEU:HD21	1:A:460:LEU:CB	2.29	0.59
1:B:331:THR:HG23	1:B:332:THR:HG23	1.84	0.59
1:A:154:ILE:HG13	1:A:155:ALA:N	2.17	0.59
1:A:465:VAL:HG23	1:A:466:ARG:N	2.17	0.59
1:A:259:VAL:HG23	1:A:262:PHE:HB2	1.83	0.59
1:B:259:VAL:HG23	1:B:262:PHE:HB2	1.83	0.59
1:B:465:VAL:HG23	1:B:466:ARG:N	2.17	0.59
1:A:331:THR:HG23	1:A:332:THR:HG23	1.84	0.59
1:C:146:ILE:HD11	1:C:421:MET:HB2	1.83	0.59
1:B:357:VAL:HB	1:B:358:PRO:CD	2.30	0.59
1:C:164:TYR:HB2	1:C:351:THR:CG2	2.29	0.59
1:C:401:GLU:HA	1:C:442:TYR:CD1	2.35	0.59
1:B:356:TRP:HD1	1:B:359:LYS:HE2	1.67	0.59
1:A:355:ASP:HB3	1:A:358:PRO:HD3	1.85	0.59
1:B:259:VAL:HG23	1:B:262:PHE:HB2	1.83	0.59
1:B:304:ARG:HD3	1:B:356:TRP:HZ3	1.63	0.59
1:B:164:TYR:HB2	1:B:351:THR:CG2	2.29	0.59
1:B:356:TRP:O	1:B:357:VAL:HG13	2.02	0.59
1:A:331:THR:HG23	1:A:332:THR:HG23	1.84	0.59
1:A:384:PHE:HB2	1:A:397:THR:HG22	1.83	0.59
1:A:341:THR:OG1	1:A:356:TRP:HB3	2.03	0.59
1:C:356:TRP:CZ2	1:C:360:ARG:HG3	2.38	0.59
1:B:259:VAL:HG23	1:B:262:PHE:HB2	1.83	0.59
1:A:259:VAL:HG23	1:A:262:PHE:HB2	1.83	0.59
1:B:357:VAL:CG2	1:B:409:LEU:HD21	2.32	0.59
1:C:355:ASP:HB3	1:C:358:PRO:HD3	1.85	0.59
1:A:356:TRP:HD1	1:A:359:LYS:HE2	1.67	0.59
1:A:259:VAL:HG23	1:A:262:PHE:HB2	1.83	0.59
1:A:356:TRP:CZ2	1:A:360:ARG:HG3	2.38	0.59
1:B:465:VAL:HG23	1:B:466:ARG:N	2.17	0.59
1:C:363:VAL:HB	1:C:364:CYS:CA	2.25	0.58
1:A:259:VAL:HG23	1:A:262:PHE:HB2	1.83	0.58
1:A:356:TRP:O	1:A:357:VAL:HG13	2.02	0.58
1:C:331:THR:HG23	1:C:332:THR:HG23	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:341:THR:OG1	1:B:356:TRP:HB3	2.03	0.58
1:C:146:ILE:HD11	1:C:421:MET:HB2	1.83	0.58
1:C:465:VAL:HG23	1:C:466:ARG:N	2.17	0.58
1:B:362:SER:C	1:B:363:VAL:HG23	2.24	0.58
1:C:465:VAL:HG23	1:C:466:ARG:N	2.17	0.58
1:A:307:SER:HB3	1:A:356:TRP:CH2	2.38	0.58
1:B:307:SER:HB3	1:B:356:TRP:CH2	2.38	0.58
1:C:259:VAL:O	1:C:259:VAL:HG23	2.04	0.58
1:B:356:TRP:CZ2	1:B:360:ARG:HG3	2.38	0.58
1:B:154:ILE:HG13	1:B:155:ALA:N	2.17	0.58
1:B:456:LEU:HD21	1:B:460:LEU:CB	2.29	0.58
1:C:200:LYS:O	1:C:204:LYS:HB2	2.04	0.58
1:A:200:LYS:O	1:A:204:LYS:HB2	2.04	0.58
1:A:249:THR:HG22	1:A:271:CYS:N	2.19	0.58
1:C:259:VAL:HG23	1:C:259:VAL:O	2.04	0.58
1:C:341:THR:OG1	1:C:356:TRP:HB3	2.03	0.58
1:C:259:VAL:HG23	1:C:262:PHE:HB2	1.83	0.58
1:C:364:CYS:HB3	1:C:412:CYS:SG	2.44	0.58
1:B:259:VAL:O	1:B:259:VAL:HG23	2.04	0.58
1:A:364:CYS:HB3	1:A:412:CYS:SG	2.44	0.58
1:B:364:CYS:HB3	1:B:412:CYS:SG	2.44	0.58
1:B:421:MET:HE2	1:B:453:GLN:HB2	1.85	0.58
1:C:357:VAL:CG2	1:C:409:LEU:HD21	2.32	0.58
1:A:259:VAL:HG23	1:A:259:VAL:O	2.04	0.58
1:B:146:ILE:HB	1:B:424:ILE:CD1	2.34	0.58
1:C:363:VAL:HG11	1:C:412:CYS:H	1.69	0.58
1:C:356:TRP:HD1	1:C:359:LYS:HE2	1.67	0.58
1:A:146:ILE:HB	1:A:424:ILE:CD1	2.34	0.58
1:C:362:SER:C	1:C:363:VAL:HG23	2.24	0.58
1:A:259:VAL:HG23	1:A:259:VAL:O	2.04	0.58
1:A:259:VAL:HG23	1:A:259:VAL:O	2.04	0.58
1:B:259:VAL:O	1:B:259:VAL:HG23	2.04	0.58
1:C:259:VAL:HG23	1:C:259:VAL:O	2.04	0.58
1:C:361:PRO:O	1:C:363:VAL:HG23	2.04	0.58
1:B:146:ILE:HB	1:B:424:ILE:CD1	2.34	0.58
1:B:255:ASN:HB3	1:B:256:PRO:HD2	1.86	0.58
1:C:146:ILE:HB	1:C:424:ILE:CD1	2.34	0.58
1:A:249:THR:HG22	1:A:271:CYS:N	2.19	0.57
1:B:361:PRO:O	1:B:363:VAL:HG23	2.04	0.57
1:C:359:LYS:HG3	1:C:409:LEU:HA	1.87	0.57
1:A:146:ILE:HB	1:A:424:ILE:CD1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:200:LYS:O	1:C:204:LYS:HB2	2.04	0.57
1:C:326:TYR:CE2	1:C:339:PRO:HG3	2.40	0.57
1:A:340:THR:HG22	1:A:357:VAL:HG11	1.84	0.57
1:B:259:VAL:O	1:B:259:VAL:HG23	2.04	0.57
1:B:249:THR:HG22	1:B:271:CYS:N	2.19	0.57
1:B:200:LYS:O	1:B:204:LYS:HB2	2.04	0.57
1:C:259:VAL:HG23	1:C:259:VAL:O	2.04	0.57
1:A:200:LYS:O	1:A:204:LYS:HB2	2.04	0.57
1:A:259:VAL:HG23	1:A:259:VAL:O	2.04	0.57
1:A:249:THR:HG22	1:A:271:CYS:N	2.19	0.57
1:C:249:THR:HG22	1:C:271:CYS:N	2.19	0.57
1:C:326:TYR:CE2	1:C:339:PRO:HG3	2.39	0.57
1:B:355:ASP:HB3	1:B:358:PRO:HD3	1.85	0.57
1:C:146:ILE:HB	1:C:424:ILE:CD1	2.34	0.57
1:C:363:VAL:CG1	1:C:412:CYS:H	2.18	0.57
1:C:307:SER:HB3	1:C:356:TRP:CH2	2.38	0.57
1:C:304:ARG:HD3	1:C:356:TRP:HZ3	1.63	0.57
1:A:300:PHE:HD1	1:A:360:ARG:HD2	1.70	0.57
1:A:249:THR:HG22	1:A:271:CYS:N	2.19	0.57
1:B:326:TYR:CE2	1:B:339:PRO:HG3	2.39	0.57
1:C:357:VAL:HG22	1:C:358:PRO:CA	2.25	0.57
1:B:146:ILE:HB	1:B:424:ILE:CD1	2.34	0.57
1:B:146:ILE:HB	1:B:424:ILE:CD1	2.34	0.57
1:B:340:THR:HG22	1:B:357:VAL:HG11	1.84	0.57
1:B:200:LYS:O	1:B:204:LYS:HB2	2.04	0.57
1:C:304:ARG:CB	1:C:356:TRP:HZ3	2.09	0.57
1:A:326:TYR:CE2	1:A:339:PRO:HG3	2.39	0.57
1:B:326:TYR:CE2	1:B:339:PRO:HG3	2.39	0.57
1:B:363:VAL:HG12	1:B:364:CYS:SG	2.44	0.57
1:A:326:TYR:CE2	1:A:339:PRO:HG3	2.39	0.57
1:A:359:LYS:HE3	1:A:415:LYS:NZ	2.20	0.57
1:A:361:PRO:O	1:A:363:VAL:HG23	2.04	0.57
1:B:200:LYS:O	1:B:204:LYS:HB2	2.04	0.57
1:C:357:VAL:HG23	1:C:409:LEU:CD2	2.35	0.57
1:C:249:THR:HG22	1:C:271:CYS:N	2.19	0.57
1:B:200:LYS:O	1:B:204:LYS:HB2	2.04	0.57
1:C:200:LYS:O	1:C:204:LYS:HB2	2.04	0.57
1:A:421:MET:HE2	1:A:453:GLN:HB2	1.87	0.57
1:A:363:VAL:HG12	1:A:364:CYS:SG	2.44	0.57
1:A:362:SER:C	1:A:363:VAL:HG23	2.24	0.57
1:C:326:TYR:CE2	1:C:339:PRO:HG3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:363:VAL:HG12	1:C:364:CYS:SG	2.44	0.57
1:A:363:VAL:HG11	1:A:412:CYS:H	1.69	0.57
1:A:304:ARG:CB	1:A:356:TRP:HZ3	2.09	0.57
1:A:200:LYS:O	1:A:204:LYS:HB2	2.04	0.57
1:B:255:ASN:HB3	1:B:256:PRO:HD2	1.86	0.57
1:A:200:LYS:O	1:A:204:LYS:HB2	2.04	0.57
1:A:363:VAL:CG1	1:A:412:CYS:H	2.18	0.57
1:A:146:ILE:HB	1:A:424:ILE:CD1	2.34	0.57
1:A:361:PRO:HD3	1:A:415:LYS:HZ2	1.70	0.57
1:B:359:LYS:HG3	1:B:409:LEU:HA	1.87	0.57
1:A:326:TYR:CE2	1:A:339:PRO:HG3	2.39	0.57
1:C:401:GLU:OE2	1:C:440:GLN:HA	2.05	0.57
1:C:340:THR:HG22	1:C:357:VAL:HG11	1.84	0.57
1:A:359:LYS:HG3	1:A:409:LEU:HA	1.87	0.56
1:A:384:PHE:CE2	1:A:399:LEU:HA	2.40	0.56
1:B:259:VAL:HG23	1:B:259:VAL:O	2.04	0.56
1:B:401:GLU:OE2	1:B:440:GLN:HA	2.05	0.56
1:A:401:GLU:OE2	1:A:440:GLN:HA	2.05	0.56
1:C:326:TYR:CE2	1:C:339:PRO:HG3	2.39	0.56
1:C:255:ASN:HB3	1:C:256:PRO:HD2	1.86	0.56
1:C:337:THR:HG23	1:C:338:ALA:N	2.20	0.56
1:B:255:ASN:HB3	1:B:256:PRO:HD2	1.86	0.56
1:B:401:GLU:OE2	1:B:440:GLN:HA	2.05	0.56
1:C:200:LYS:O	1:C:204:LYS:HB2	2.04	0.56
1:C:249:THR:HG22	1:C:271:CYS:N	2.19	0.56
1:B:363:VAL:CG1	1:B:412:CYS:H	2.18	0.56
1:B:384:PHE:CE2	1:B:399:LEU:HA	2.41	0.56
1:C:359:LYS:HE3	1:C:415:LYS:NZ	2.20	0.56
1:C:401:GLU:OE2	1:C:440:GLN:HA	2.05	0.56
1:C:384:PHE:CE2	1:C:399:LEU:HA	2.40	0.56
1:B:357:VAL:HG23	1:B:409:LEU:CD2	2.35	0.56
1:C:175:PHE:CZ	1:C:258:ARG:HA	2.41	0.56
1:B:326:TYR:CE2	1:B:339:PRO:HG3	2.39	0.56
1:C:255:ASN:HB3	1:C:256:PRO:HD2	1.86	0.56
1:C:300:PHE:HD1	1:C:360:ARG:HD2	1.69	0.56
1:C:384:PHE:CE2	1:C:399:LEU:HA	2.40	0.56
1:A:337:THR:HG23	1:A:338:ALA:N	2.20	0.56
1:A:384:PHE:CE2	1:A:399:LEU:HA	2.41	0.56
1:B:401:GLU:OE2	1:B:440:GLN:HA	2.05	0.56
1:C:249:THR:HG22	1:C:271:CYS:N	2.19	0.56
1:B:255:ASN:HB3	1:B:256:PRO:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:401:GLU:OE2	1:A:440:GLN:HA	2.05	0.56
1:C:337:THR:HG23	1:C:338:ALA:N	2.20	0.56
1:B:363:VAL:HG11	1:B:412:CYS:H	1.69	0.56
1:A:146:ILE:CD1	1:A:424:ILE:HD11	2.36	0.56
1:A:326:TYR:CE2	1:A:339:PRO:HG3	2.39	0.56
1:A:384:PHE:CE2	1:A:399:LEU:HA	2.40	0.56
1:B:361:PRO:HD3	1:B:415:LYS:HZ2	1.71	0.56
1:A:337:THR:HG23	1:A:338:ALA:N	2.21	0.56
1:C:175:PHE:CZ	1:C:258:ARG:HA	2.41	0.56
1:A:146:ILE:CD1	1:A:424:ILE:HD11	2.36	0.56
1:C:175:PHE:CZ	1:C:258:ARG:HA	2.41	0.56
1:B:326:TYR:CE2	1:B:339:PRO:HG3	2.39	0.56
1:B:384:PHE:CE2	1:B:399:LEU:HA	2.41	0.56
1:C:175:PHE:CZ	1:C:258:ARG:HA	2.41	0.56
1:B:363:VAL:HG12	1:B:364:CYS:N	2.12	0.56
1:B:384:PHE:CE2	1:B:399:LEU:HA	2.40	0.56
1:C:255:ASN:HB3	1:C:256:PRO:HD2	1.86	0.56
1:A:175:PHE:CZ	1:A:258:ARG:HA	2.41	0.56
1:B:300:PHE:HE1	1:B:363:VAL:HG21	1.64	0.56
1:A:337:THR:HG23	1:A:338:ALA:N	2.21	0.56
1:C:401:GLU:OE2	1:C:440:GLN:HA	2.05	0.56
1:A:255:ASN:HB3	1:A:256:PRO:HD2	1.86	0.56
1:A:401:GLU:OE2	1:A:440:GLN:HA	2.05	0.56
1:A:175:PHE:CZ	1:A:258:ARG:HA	2.41	0.56
1:A:421:MET:HE2	1:A:453:GLN:HB2	1.84	0.56
1:A:152:GLU:HA	1:A:366:MET:HE2	1.86	0.56
1:A:175:PHE:CZ	1:A:258:ARG:HA	2.41	0.56
1:A:337:THR:HG23	1:A:338:ALA:N	2.20	0.56
1:C:384:PHE:CE2	1:C:399:LEU:HA	2.41	0.56
1:B:152:GLU:HA	1:B:366:MET:HE2	1.85	0.56
1:A:376:LEU:N	1:A:376:LEU:HD12	2.21	0.56
1:B:337:THR:HG23	1:B:338:ALA:N	2.20	0.56
1:C:255:ASN:HB3	1:C:256:PRO:HD2	1.86	0.56
1:B:337:THR:HG23	1:B:338:ALA:N	2.20	0.56
1:B:175:PHE:CZ	1:B:258:ARG:HA	2.41	0.56
1:A:361:PRO:HD3	1:A:415:LYS:NZ	2.21	0.56
1:A:146:ILE:HB	1:A:424:ILE:CD1	2.34	0.56
1:B:249:THR:HG22	1:B:271:CYS:N	2.19	0.56
1:B:376:LEU:HD12	1:B:376:LEU:N	2.21	0.56
1:B:146:ILE:CD1	1:B:424:ILE:HD11	2.36	0.56
1:C:146:ILE:HB	1:C:424:ILE:CD1	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:401:GLU:OE2	1:C:440:GLN:HA	2.05	0.56
1:C:146:ILE:HB	1:C:424:ILE:CD1	2.34	0.56
1:A:376:LEU:HD12	1:A:376:LEU:N	2.21	0.56
1:A:363:VAL:HG12	1:A:364:CYS:N	2.12	0.55
1:B:332:THR:O	1:B:333:LYS:HB2	2.06	0.55
1:C:259:VAL:HG21	1:C:264:ARG:HD2	1.88	0.55
1:A:332:THR:O	1:A:333:LYS:HB2	2.07	0.55
1:A:259:VAL:HG21	1:A:264:ARG:HD2	1.89	0.55
1:C:259:VAL:HG21	1:C:264:ARG:HD2	1.89	0.55
1:C:361:PRO:HD3	1:C:415:LYS:HZ2	1.71	0.55
1:B:249:THR:HG22	1:B:271:CYS:N	2.19	0.55
1:B:259:VAL:HG21	1:B:264:ARG:HD2	1.88	0.55
1:C:361:PRO:HD3	1:C:415:LYS:NZ	2.21	0.55
1:A:255:ASN:HB3	1:A:256:PRO:HD2	1.86	0.55
1:B:332:THR:O	1:B:333:LYS:HB2	2.07	0.55
1:A:259:VAL:HG21	1:A:264:ARG:HD2	1.89	0.55
1:A:332:THR:O	1:A:333:LYS:HB2	2.06	0.55
1:B:175:PHE:CZ	1:B:258:ARG:HA	2.41	0.55
1:C:332:THR:O	1:C:333:LYS:HB2	2.06	0.55
1:A:255:ASN:HB3	1:A:256:PRO:HD2	1.86	0.55
1:A:259:VAL:HG21	1:A:264:ARG:HD2	1.89	0.55
1:B:249:THR:HG22	1:B:271:CYS:N	2.19	0.55
1:C:224:HIS:CE1	1:C:250:THR:HG21	2.42	0.55
1:C:146:ILE:CD1	1:C:424:ILE:HD11	2.36	0.55
1:A:175:PHE:CZ	1:A:258:ARG:HA	2.41	0.55
1:A:376:LEU:N	1:A:376:LEU:HD12	2.21	0.55
1:A:384:PHE:CE2	1:A:399:LEU:HA	2.40	0.55
1:A:401:GLU:OE2	1:A:440:GLN:HA	2.05	0.55
1:B:337:THR:HG23	1:B:338:ALA:N	2.21	0.55
1:A:146:ILE:CD1	1:A:424:ILE:HD11	2.36	0.55
1:A:255:ASN:HB3	1:A:256:PRO:HD2	1.86	0.55
1:B:384:PHE:CE2	1:B:399:LEU:HA	2.40	0.55
1:B:146:ILE:CD1	1:B:424:ILE:HD11	2.36	0.55
1:C:376:LEU:N	1:C:376:LEU:HD12	2.21	0.55
1:B:259:VAL:HG21	1:B:264:ARG:HD2	1.88	0.55
1:B:359:LYS:HE3	1:B:415:LYS:NZ	2.20	0.55
1:C:224:HIS:CE1	1:C:250:THR:HG21	2.42	0.55
1:C:384:PHE:CE2	1:C:399:LEU:HA	2.40	0.55
1:C:376:LEU:N	1:C:376:LEU:HD12	2.21	0.55
1:A:189:ARG:HB2	1:A:349:LYS:HD2	1.89	0.55
1:B:224:HIS:CE1	1:B:250:THR:HG21	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:175:PHE:CZ	1:B:258:ARG:HA	2.41	0.55
1:B:361:PRO:HD3	1:B:415:LYS:NZ	2.21	0.55
1:B:175:PHE:CZ	1:B:258:ARG:HA	2.41	0.55
1:B:376:LEU:HD12	1:B:376:LEU:N	2.21	0.55
1:A:259:VAL:HG21	1:A:264:ARG:HD2	1.88	0.55
1:B:337:THR:HG23	1:B:338:ALA:N	2.21	0.55
1:B:401:GLU:OE2	1:B:440:GLN:HA	2.05	0.55
1:C:376:LEU:HD12	1:C:376:LEU:N	2.21	0.55
1:A:357:VAL:HB	1:A:358:PRO:CD	2.30	0.55
1:A:189:ARG:HB2	1:A:349:LYS:HD2	1.89	0.55
1:B:259:VAL:HG21	1:B:264:ARG:HD2	1.89	0.55
1:A:421:MET:HE2	1:A:453:GLN:HB2	1.87	0.55
1:B:249:THR:HG23	1:B:250:THR:N	2.22	0.55
1:A:282:TYR:HA	1:A:284:TYR:CD2	2.42	0.55
1:C:189:ARG:HB2	1:C:349:LYS:HD2	1.89	0.55
1:C:224:HIS:CE1	1:C:250:THR:HG21	2.42	0.55
1:B:249:THR:HG23	1:B:250:THR:N	2.22	0.55
1:B:376:LEU:N	1:B:376:LEU:HD12	2.21	0.55
1:C:332:THR:O	1:C:333:LYS:HB2	2.06	0.55
1:B:282:TYR:HA	1:B:284:TYR:CD2	2.42	0.55
1:A:312:THR:HG22	1:A:314:TYR:N	2.18	0.55
1:C:189:ARG:HB2	1:C:349:LYS:HD2	1.89	0.55
1:A:224:HIS:CE1	1:A:250:THR:HG21	2.42	0.55
1:A:282:TYR:HA	1:A:284:TYR:CD2	2.42	0.55
1:A:357:VAL:HG23	1:A:409:LEU:CD2	2.35	0.55
1:B:300:PHE:HD1	1:B:360:ARG:HD2	1.70	0.55
1:A:282:TYR:HA	1:A:284:TYR:CD2	2.42	0.55
1:C:249:THR:HG23	1:C:250:THR:N	2.22	0.55
1:B:224:HIS:CE1	1:B:250:THR:HG21	2.42	0.54
1:C:189:ARG:HB2	1:C:349:LYS:HD2	1.89	0.54
1:C:282:TYR:HA	1:C:284:TYR:CD2	2.42	0.54
1:C:146:ILE:CD1	1:C:424:ILE:HD11	2.36	0.54
1:B:249:THR:HG23	1:B:250:THR:N	2.23	0.54
1:A:224:HIS:CE1	1:A:250:THR:HG21	2.42	0.54
1:B:146:ILE:CD1	1:B:424:ILE:HD11	2.36	0.54
1:B:421:MET:HE2	1:B:453:GLN:HB2	1.87	0.54
1:C:282:TYR:HA	1:C:284:TYR:CD2	2.42	0.54
1:C:332:THR:O	1:C:333:LYS:HB2	2.06	0.54
1:C:337:THR:HG23	1:C:338:ALA:N	2.21	0.54
1:C:376:LEU:N	1:C:376:LEU:HD12	2.21	0.54
1:C:146:ILE:CD1	1:C:424:ILE:HD11	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:224:HIS:CE1	1:B:250:THR:HG21	2.42	0.54
1:A:332:THR:O	1:A:333:LYS:HB2	2.06	0.54
1:C:337:THR:HG23	1:C:338:ALA:N	2.21	0.54
1:B:332:THR:O	1:B:333:LYS:HB2	2.06	0.54
1:A:224:HIS:CE1	1:A:250:THR:HG21	2.42	0.54
1:A:249:THR:HG23	1:A:250:THR:N	2.22	0.54
1:B:376:LEU:HD12	1:B:376:LEU:N	2.21	0.54
1:C:356:TRP:HZ2	1:C:360:ARG:NH1	2.06	0.54
1:B:224:HIS:CE1	1:B:250:THR:HG21	2.42	0.54
1:B:249:THR:HG23	1:B:250:THR:N	2.22	0.54
1:B:282:TYR:HA	1:B:284:TYR:CD2	2.42	0.54
1:A:146:ILE:CD1	1:A:424:ILE:HD11	2.36	0.54
1:A:312:THR:HG22	1:A:314:TYR:N	2.18	0.54
1:A:189:ARG:HB2	1:A:349:LYS:HD2	1.89	0.54
1:B:173:VAL:HG11	1:B:175:PHE:CZ	2.43	0.54
1:B:282:TYR:HA	1:B:284:TYR:CD2	2.43	0.54
1:B:173:VAL:HG11	1:B:175:PHE:CZ	2.43	0.54
1:A:332:THR:O	1:A:333:LYS:HB2	2.07	0.54
1:A:224:HIS:CE1	1:A:250:THR:HG21	2.42	0.54
1:A:249:THR:HG23	1:A:250:THR:N	2.22	0.54
1:C:282:TYR:HA	1:C:284:TYR:CD2	2.42	0.54
1:A:189:ARG:HB2	1:A:349:LYS:HD2	1.89	0.54
1:B:282:TYR:HA	1:B:284:TYR:CD2	2.42	0.54
1:A:282:TYR:HA	1:A:284:TYR:CD2	2.42	0.54
1:C:189:ARG:HB2	1:C:349:LYS:HD2	1.89	0.54
1:C:249:THR:HG23	1:C:250:THR:N	2.23	0.54
1:B:189:ARG:HB2	1:B:349:LYS:HD2	1.89	0.54
1:B:304:ARG:CB	1:B:356:TRP:HZ3	2.09	0.54
1:B:356:TRP:HZ2	1:B:360:ARG:NH1	2.06	0.54
1:A:356:TRP:HZ2	1:A:360:ARG:NH1	2.06	0.54
1:A:363:VAL:HB	1:A:364:CYS:CA	2.25	0.54
1:C:224:HIS:CE1	1:C:250:THR:HG21	2.42	0.54
1:C:282:TYR:HA	1:C:284:TYR:CD2	2.42	0.54
1:C:332:THR:O	1:C:333:LYS:HB2	2.07	0.54
1:A:249:THR:HG23	1:A:250:THR:N	2.22	0.54
1:B:173:VAL:HG11	1:B:175:PHE:CZ	2.43	0.54
1:C:173:VAL:HG11	1:C:175:PHE:CZ	2.43	0.54
1:A:249:THR:HG23	1:A:250:THR:N	2.22	0.54
1:C:249:THR:HG23	1:C:250:THR:N	2.22	0.54
1:B:385:ARG:HH11	1:B:385:ARG:HG2	1.73	0.54
1:A:385:ARG:HH11	1:A:385:ARG:HG2	1.74	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:173:VAL:HG11	1:C:175:PHE:CZ	2.43	0.54
1:A:376:LEU:HD12	1:A:376:LEU:N	2.21	0.54
1:C:249:THR:HG23	1:C:250:THR:N	2.22	0.54
1:B:365:THR:HG21	1:B:409:LEU:HB2	1.90	0.54
1:A:146:ILE:CD1	1:A:421:MET:HB2	2.38	0.53
1:B:189:ARG:HB2	1:B:349:LYS:HD2	1.89	0.53
1:C:385:ARG:HG2	1:C:385:ARG:HH11	1.73	0.53
1:B:173:VAL:HG11	1:B:175:PHE:CZ	2.43	0.53
1:B:146:ILE:CD1	1:B:421:MET:HB2	2.39	0.53
1:B:312:THR:HG22	1:B:314:TYR:N	2.18	0.53
1:C:146:ILE:CD1	1:C:424:ILE:HD11	2.36	0.53
1:A:433:HIS:O	1:A:434:ILE:HD13	2.08	0.53
1:B:433:HIS:O	1:B:434:ILE:HD13	2.08	0.53
1:B:385:ARG:HG2	1:B:385:ARG:HH11	1.73	0.53
1:B:433:HIS:O	1:B:434:ILE:HD13	2.08	0.53
1:C:385:ARG:HH11	1:C:385:ARG:HG2	1.73	0.53
1:B:312:THR:HG22	1:B:314:TYR:N	2.18	0.53
1:B:332:THR:O	1:B:333:LYS:HB2	2.07	0.53
1:B:189:ARG:HB2	1:B:349:LYS:HD2	1.89	0.53
1:A:146:ILE:CD1	1:A:421:MET:HB2	2.39	0.53
1:A:385:ARG:HH11	1:A:385:ARG:HG2	1.73	0.53
1:C:146:ILE:CD1	1:C:421:MET:HB2	2.39	0.53
1:B:433:HIS:O	1:B:434:ILE:HD13	2.08	0.53
1:B:433:HIS:O	1:B:434:ILE:HD13	2.09	0.53
1:B:252:LEU:N	1:B:252:LEU:HD22	2.24	0.53
1:B:463:LEU:HG	1:B:463:LEU:O	2.09	0.53
1:B:303:TYR:HD2	1:B:321:GLN:CG	2.22	0.53
1:B:189:ARG:HB2	1:B:349:LYS:HD2	1.89	0.53
1:C:463:LEU:HG	1:C:463:LEU:O	2.09	0.53
1:A:173:VAL:HG11	1:A:175:PHE:CZ	2.43	0.53
1:A:252:LEU:N	1:A:252:LEU:HD22	2.24	0.53
1:A:300:PHE:CD1	1:A:360:ARG:HD2	2.44	0.53
1:B:146:ILE:CD1	1:B:424:ILE:HD11	2.36	0.53
1:C:146:ILE:CD1	1:C:421:MET:HB2	2.38	0.53
1:C:433:HIS:O	1:C:434:ILE:HD13	2.08	0.53
1:B:303:TYR:HD2	1:B:321:GLN:CG	2.22	0.53
1:B:433:HIS:ND1	1:B:457:SER:HA	2.24	0.53
1:C:433:HIS:O	1:C:434:ILE:HD13	2.08	0.53
1:A:146:ILE:CD1	1:A:421:MET:HB2	2.38	0.53
1:A:312:THR:HG22	1:A:314:TYR:N	2.18	0.53
1:B:252:LEU:HD22	1:B:252:LEU:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:259:VAL:HG21	1:C:264:ARG:HD2	1.89	0.53
1:A:433:HIS:ND1	1:A:457:SER:HA	2.24	0.53
1:B:146:ILE:CB	1:B:424:ILE:HD11	2.38	0.53
1:A:252:LEU:HD22	1:A:252:LEU:N	2.24	0.53
1:C:433:HIS:O	1:C:434:ILE:HD13	2.08	0.53
1:A:357:VAL:HB	1:A:362:SER:OG	2.09	0.53
1:C:357:VAL:HB	1:C:362:SER:OG	2.09	0.53
1:A:146:ILE:CD1	1:A:421:MET:HB2	2.39	0.53
1:A:303:TYR:HD2	1:A:321:GLN:CG	2.22	0.53
1:A:385:ARG:HH11	1:A:385:ARG:HG2	1.73	0.53
1:A:463:LEU:O	1:A:463:LEU:HG	2.09	0.53
1:C:385:ARG:HG2	1:C:385:ARG:HH11	1.74	0.53
1:A:252:LEU:N	1:A:252:LEU:HD22	2.24	0.53
1:A:463:LEU:O	1:A:463:LEU:HG	2.09	0.53
1:B:146:ILE:CD1	1:B:421:MET:HB2	2.38	0.53
1:B:433:HIS:ND1	1:B:457:SER:HA	2.24	0.53
1:A:252:LEU:N	1:A:252:LEU:HD22	2.24	0.53
1:C:433:HIS:ND1	1:C:457:SER:HA	2.24	0.53
1:C:463:LEU:O	1:C:463:LEU:HG	2.09	0.53
1:A:173:VAL:HG11	1:A:175:PHE:CZ	2.43	0.53
1:A:146:ILE:CB	1:A:424:ILE:HD11	2.38	0.53
1:B:433:HIS:ND1	1:B:457:SER:HA	2.24	0.53
1:B:146:ILE:CB	1:B:424:ILE:HD11	2.38	0.53
1:B:433:HIS:ND1	1:B:457:SER:HA	2.24	0.53
1:C:433:HIS:ND1	1:C:457:SER:HA	2.24	0.53
1:A:331:THR:HG23	1:A:332:THR:N	2.24	0.53
1:A:300:PHE:HD1	1:A:360:ARG:HD2	1.74	0.53
1:A:433:HIS:O	1:A:434:ILE:HD13	2.08	0.53
1:C:365:THR:HG21	1:C:409:LEU:HB2	1.90	0.53
1:A:433:HIS:ND1	1:A:457:SER:HA	2.24	0.53
1:A:152:GLU:HA	1:A:366:MET:HE2	1.90	0.53
1:A:146:ILE:CB	1:A:424:ILE:HD11	2.38	0.53
1:C:331:THR:HG23	1:C:332:THR:N	2.24	0.53
1:B:385:ARG:HG2	1:B:385:ARG:HH11	1.73	0.53
1:C:331:THR:HG23	1:C:332:THR:N	2.24	0.53
1:C:365:THR:CG2	1:C:409:LEU:HB2	2.39	0.53
1:C:331:THR:HG23	1:C:332:THR:N	2.24	0.53
1:B:146:ILE:CB	1:B:424:ILE:HD11	2.38	0.53
1:C:252:LEU:HD22	1:C:252:LEU:N	2.24	0.53
1:B:312:THR:HG22	1:B:314:TYR:N	2.18	0.53
1:B:331:THR:HG23	1:B:332:THR:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:331:THR:HG23	1:C:332:THR:N	2.24	0.52
1:C:433:HIS:ND1	1:C:457:SER:HA	2.24	0.52
1:A:173:VAL:HG11	1:A:175:PHE:CZ	2.43	0.52
1:B:146:ILE:CD1	1:B:421:MET:HB2	2.39	0.52
1:B:331:THR:HG23	1:B:332:THR:N	2.24	0.52
1:C:252:LEU:HD22	1:C:252:LEU:N	2.24	0.52
1:A:303:TYR:HD2	1:A:321:GLN:CG	2.22	0.52
1:B:331:THR:HG23	1:B:332:THR:N	2.24	0.52
1:A:331:THR:HG23	1:A:332:THR:N	2.24	0.52
1:B:303:TYR:HD2	1:B:321:GLN:CG	2.22	0.52
1:B:454:PRO:HG2	1:B:471:GLU:OE1	2.10	0.52
1:C:312:THR:HG22	1:C:314:TYR:N	2.18	0.52
1:C:146:ILE:CD1	1:C:421:MET:HB2	2.39	0.52
1:A:454:PRO:HG2	1:A:471:GLU:OE1	2.10	0.52
1:B:331:THR:HG23	1:B:332:THR:N	2.24	0.52
1:C:173:VAL:HG11	1:C:175:PHE:CZ	2.43	0.52
1:A:300:PHE:HB3	1:A:360:ARG:NH1	2.24	0.52
1:A:365:THR:CG2	1:A:409:LEU:HB2	2.39	0.52
1:B:259:VAL:HG21	1:B:264:ARG:HD2	1.89	0.52
1:C:300:PHE:HD1	1:C:360:ARG:HD2	1.74	0.52
1:C:463:LEU:HG	1:C:463:LEU:O	2.09	0.52
1:A:173:VAL:HG11	1:A:175:PHE:CZ	2.43	0.52
1:C:173:VAL:HG11	1:C:175:PHE:CZ	2.43	0.52
1:C:252:LEU:N	1:C:252:LEU:HD22	2.24	0.52
1:C:146:ILE:CD1	1:C:421:MET:HB2	2.38	0.52
1:A:303:TYR:HD2	1:A:321:GLN:CG	2.22	0.52
1:A:433:HIS:O	1:A:434:ILE:HD13	2.08	0.52
1:C:146:ILE:CB	1:C:424:ILE:HD11	2.38	0.52
1:B:454:PRO:HG2	1:B:471:GLU:OE1	2.10	0.52
1:C:300:PHE:CD1	1:C:360:ARG:HD2	2.44	0.52
1:A:433:HIS:O	1:A:434:ILE:HD13	2.09	0.52
1:B:252:LEU:HD22	1:B:252:LEU:N	2.24	0.52
1:C:454:PRO:HG2	1:C:471:GLU:OE1	2.10	0.52
1:C:385:ARG:HH11	1:C:385:ARG:HG2	1.73	0.52
1:A:303:TYR:HD2	1:A:321:GLN:CG	2.22	0.52
1:B:300:PHE:CD1	1:B:360:ARG:HD2	2.44	0.52
1:C:401:GLU:HG3	1:C:441:TYR:O	2.10	0.52
1:B:146:ILE:CD1	1:B:421:MET:HB2	2.38	0.52
1:C:259:VAL:HG22	1:C:264:ARG:CD	2.39	0.52
1:C:433:HIS:O	1:C:434:ILE:HD13	2.09	0.52
1:A:259:VAL:HG22	1:A:264:ARG:CD	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:454:PRO:HG2	1:A:471:GLU:OE1	2.10	0.52
1:B:214:VAL:HG13	1:B:214:VAL:O	2.10	0.52
1:B:252:LEU:HD22	1:B:252:LEU:N	2.24	0.52
1:C:466:ARG:HH12	1:C:470:ARG:HB2	1.75	0.52
1:A:214:VAL:HG13	1:A:214:VAL:O	2.09	0.52
1:A:401:GLU:HG3	1:A:441:TYR:O	2.10	0.52
1:C:401:GLU:HG3	1:C:441:TYR:O	2.10	0.52
1:A:433:HIS:ND1	1:A:457:SER:HA	2.24	0.52
1:B:454:PRO:HG2	1:B:471:GLU:OE1	2.10	0.52
1:B:463:LEU:HG	1:B:463:LEU:O	2.09	0.52
1:A:385:ARG:HH11	1:A:385:ARG:HG2	1.73	0.52
1:B:300:PHE:HD1	1:B:360:ARG:HD2	1.74	0.52
1:B:303:TYR:HD2	1:B:321:GLN:CG	2.22	0.52
1:C:433:HIS:ND1	1:C:457:SER:HA	2.24	0.52
1:C:454:PRO:HG2	1:C:471:GLU:OE1	2.09	0.52
1:C:300:PHE:CD1	1:C:360:ARG:HD2	2.45	0.52
1:A:401:GLU:HG3	1:A:441:TYR:O	2.10	0.52
1:C:259:VAL:HG22	1:C:264:ARG:CD	2.39	0.52
1:B:463:LEU:HG	1:B:463:LEU:O	2.09	0.52
1:C:466:ARG:HH12	1:C:470:ARG:HB2	1.75	0.52
1:A:454:PRO:HG2	1:A:471:GLU:OE1	2.10	0.52
1:A:466:ARG:HH12	1:A:470:ARG:HB2	1.75	0.52
1:B:357:VAL:HB	1:B:362:SER:OG	2.09	0.52
1:C:252:LEU:HD22	1:C:252:LEU:N	2.24	0.52
1:A:146:ILE:CB	1:A:424:ILE:HD11	2.38	0.52
1:A:454:PRO:HG2	1:A:471:GLU:OE1	2.10	0.52
1:B:146:ILE:CB	1:B:424:ILE:HD11	2.38	0.52
1:B:401:GLU:HG3	1:B:441:TYR:O	2.10	0.52
1:C:214:VAL:HG13	1:C:214:VAL:O	2.09	0.52
1:A:463:LEU:O	1:A:463:LEU:HG	2.09	0.52
1:B:385:ARG:HH11	1:B:385:ARG:HG2	1.74	0.52
1:A:361:PRO:HD3	1:A:415:LYS:NZ	2.25	0.52
1:A:433:HIS:ND1	1:A:457:SER:HA	2.24	0.52
1:A:469:LEU:HD13	1:A:469:LEU:C	2.30	0.52
1:B:357:VAL:C	1:B:359:LYS:H	2.13	0.52
1:B:300:PHE:HB3	1:B:360:ARG:NH1	2.24	0.52
1:A:331:THR:HG23	1:A:332:THR:N	2.24	0.52
1:B:454:PRO:HG2	1:B:471:GLU:OE1	2.10	0.52
1:C:267:THR:HG22	1:C:268:THR:N	2.25	0.52
1:A:401:GLU:HG3	1:A:441:TYR:O	2.10	0.52
1:B:469:LEU:C	1:B:469:LEU:HD13	2.30	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:463:LEU:HG	1:C:463:LEU:O	2.09	0.52
1:A:214:VAL:HG13	1:A:214:VAL:O	2.09	0.52
1:A:463:LEU:O	1:A:463:LEU:HG	2.09	0.52
1:C:401:GLU:HG3	1:C:441:TYR:O	2.10	0.52
1:A:365:THR:HG21	1:A:409:LEU:HB2	1.90	0.52
1:A:214:VAL:O	1:A:214:VAL:HG13	2.09	0.51
1:A:469:LEU:HD13	1:A:469:LEU:C	2.30	0.51
1:C:146:ILE:CB	1:C:424:ILE:HD11	2.38	0.51
1:B:401:GLU:HG3	1:B:441:TYR:O	2.10	0.51
1:A:469:LEU:C	1:A:469:LEU:HD13	2.31	0.51
1:C:454:PRO:HG2	1:C:471:GLU:OE1	2.09	0.51
1:A:466:ARG:HH12	1:A:470:ARG:HB2	1.75	0.51
1:B:365:THR:CG2	1:B:409:LEU:HB2	2.39	0.51
1:C:357:VAL:C	1:C:359:LYS:H	2.13	0.51
1:C:146:ILE:CB	1:C:424:ILE:HD11	2.38	0.51
1:A:146:ILE:CB	1:A:424:ILE:HD11	2.38	0.51
1:C:259:VAL:HG21	1:C:264:ARG:HD2	1.88	0.51
1:C:303:TYR:HD2	1:C:321:GLN:CG	2.22	0.51
1:C:466:ARG:HH12	1:C:470:ARG:HB2	1.75	0.51
1:C:267:THR:HG22	1:C:268:THR:N	2.26	0.51
1:A:313:THR:O	1:A:313:THR:HG22	2.11	0.51
1:C:300:PHE:HB3	1:C:360:ARG:NH1	2.24	0.51
1:C:401:GLU:HG3	1:C:441:TYR:O	2.10	0.51
1:A:214:VAL:O	1:A:214:VAL:HG13	2.10	0.51
1:B:386:PHE:HE1	1:B:397:THR:HG21	1.76	0.51
1:C:386:PHE:HE1	1:C:397:THR:HG21	1.76	0.51
1:A:331:THR:HG23	1:A:332:THR:N	2.24	0.51
1:A:386:PHE:HE1	1:A:397:THR:HG21	1.76	0.51
1:B:357:VAL:HA	1:B:358:PRO:C	2.31	0.51
1:B:466:ARG:HH12	1:B:470:ARG:HB2	1.75	0.51
1:A:357:VAL:C	1:A:359:LYS:H	2.13	0.51
1:A:386:PHE:HE1	1:A:397:THR:HG21	1.76	0.51
1:B:361:PRO:HD3	1:B:415:LYS:NZ	2.25	0.51
1:C:213:TYR:HE2	1:C:215:ARG:HB2	1.76	0.51
1:A:267:THR:HG22	1:A:268:THR:N	2.26	0.51
1:A:359:LYS:HG3	1:A:409:LEU:CG	2.40	0.51
1:B:359:LYS:HG3	1:B:409:LEU:CG	2.40	0.51
1:C:214:VAL:O	1:C:214:VAL:HG13	2.10	0.51
1:C:386:PHE:HE1	1:C:397:THR:HG21	1.76	0.51
1:C:421:MET:HE2	1:C:453:GLN:HB2	1.88	0.51
1:B:313:THR:O	1:B:313:THR:HG22	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:267:THR:HG22	1:A:268:THR:N	2.26	0.51
1:B:166:LYS:HE2	1:B:207:CYS:SG	2.51	0.51
1:C:313:THR:O	1:C:313:THR:HG22	2.11	0.51
1:C:303:TYR:HD2	1:C:321:GLN:CG	2.22	0.51
1:A:300:PHE:CD1	1:A:360:ARG:HD2	2.45	0.51
1:B:166:LYS:HE2	1:B:207:CYS:SG	2.51	0.51
1:B:267:THR:HG22	1:B:268:THR:N	2.26	0.51
1:C:166:LYS:HE2	1:C:207:CYS:SG	2.51	0.51
1:C:267:THR:HG22	1:C:268:THR:N	2.26	0.51
1:C:454:PRO:HG2	1:C:471:GLU:OE1	2.10	0.51
1:C:386:PHE:HE1	1:C:397:THR:HG21	1.76	0.51
1:A:213:TYR:HE2	1:A:215:ARG:HB2	1.76	0.51
1:B:151:LYS:CG	1:B:367:THR:HG22	2.41	0.51
1:C:303:TYR:HD2	1:C:321:GLN:CG	2.22	0.51
1:C:361:PRO:HA	1:C:412:CYS:CB	2.41	0.51
1:B:463:LEU:HG	1:B:463:LEU:O	2.09	0.51
1:A:166:LYS:HE2	1:A:207:CYS:SG	2.51	0.51
1:A:251:ASP:HB2	1:A:252:LEU:CD2	2.41	0.51
1:C:251:ASP:HB2	1:C:252:LEU:CD2	2.41	0.51
1:C:259:VAL:HG22	1:C:264:ARG:CD	2.39	0.51
1:B:401:GLU:HG3	1:B:441:TYR:O	2.10	0.51
1:B:214:VAL:O	1:B:214:VAL:HG13	2.09	0.51
1:C:251:ASP:HB2	1:C:252:LEU:CD2	2.41	0.51
1:C:259:VAL:HG22	1:C:264:ARG:CD	2.39	0.51
1:C:267:THR:HG22	1:C:268:THR:N	2.26	0.51
1:B:166:LYS:HE2	1:B:207:CYS:SG	2.51	0.51
1:C:469:LEU:C	1:C:469:LEU:HD13	2.30	0.51
1:A:213:TYR:HE2	1:A:215:ARG:HB2	1.76	0.51
1:B:300:PHE:CD1	1:B:360:ARG:HD2	2.45	0.51
1:B:421:MET:HE2	1:B:453:GLN:HB2	1.88	0.51
1:C:214:VAL:HG13	1:C:214:VAL:O	2.10	0.51
1:C:303:TYR:HD2	1:C:321:GLN:CG	2.22	0.51
1:B:469:LEU:HD13	1:B:469:LEU:C	2.30	0.51
1:B:386:PHE:HE1	1:B:397:THR:HG21	1.76	0.51
1:C:466:ARG:HH12	1:C:470:ARG:HB2	1.75	0.51
1:A:469:LEU:HD13	1:A:469:LEU:C	2.30	0.51
1:B:466:ARG:HH12	1:B:470:ARG:HB2	1.75	0.51
1:C:214:VAL:O	1:C:214:VAL:HG13	2.10	0.51
1:B:469:LEU:HD13	1:B:469:LEU:C	2.31	0.51
1:A:401:GLU:HG3	1:A:441:TYR:O	2.10	0.51
1:B:401:GLU:HG3	1:B:441:TYR:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:213:TYR:HE2	1:C:215:ARG:HB2	1.76	0.51
1:C:166:LYS:HE2	1:C:207:CYS:SG	2.51	0.51
1:B:466:ARG:HH12	1:B:470:ARG:HB2	1.75	0.51
1:A:313:THR:O	1:A:313:THR:HG22	2.11	0.51
1:A:386:PHE:HE1	1:A:397:THR:HG21	1.76	0.51
1:C:213:TYR:HE2	1:C:215:ARG:HB2	1.76	0.51
1:B:386:PHE:HE1	1:B:397:THR:HG21	1.76	0.51
1:C:166:LYS:HE2	1:C:207:CYS:SG	2.51	0.51
1:C:386:PHE:HE1	1:C:397:THR:HG21	1.76	0.51
1:C:361:PRO:HD3	1:C:415:LYS:NZ	2.25	0.51
1:C:166:LYS:HE2	1:C:207:CYS:SG	2.51	0.50
1:C:213:TYR:HE2	1:C:215:ARG:HB2	1.76	0.50
1:C:151:LYS:CG	1:C:367:THR:HG22	2.41	0.50
1:C:393:THR:HG22	1:C:394:THR:N	2.26	0.50
1:C:469:LEU:HD13	1:C:469:LEU:C	2.30	0.50
1:A:313:THR:O	1:A:313:THR:HG22	2.10	0.50
1:C:469:LEU:HD13	1:C:469:LEU:C	2.31	0.50
1:A:267:THR:HG22	1:A:268:THR:N	2.26	0.50
1:B:267:THR:HG22	1:B:268:THR:N	2.26	0.50
1:A:313:THR:HG22	1:A:313:THR:O	2.10	0.50
1:A:393:THR:HG22	1:A:394:THR:N	2.26	0.50
1:C:300:PHE:CB	1:C:409:LEU:HD21	2.41	0.50
1:A:166:LYS:HE2	1:A:207:CYS:SG	2.51	0.50
1:A:300:PHE:CZ	1:A:363:VAL:HG21	2.46	0.50
1:B:313:THR:HG22	1:B:313:THR:O	2.11	0.50
1:A:393:THR:HG22	1:A:394:THR:N	2.26	0.50
1:B:157:TYR:OH	1:B:359:LYS:HD2	2.12	0.50
1:A:357:VAL:HA	1:A:358:PRO:C	2.31	0.50
1:A:251:ASP:HB2	1:A:252:LEU:CD2	2.41	0.50
1:B:393:THR:HG22	1:B:394:THR:N	2.26	0.50
1:C:210:THR:HG22	1:C:223:PHE:HA	1.94	0.50
1:C:469:LEU:HD13	1:C:469:LEU:C	2.31	0.50
1:A:166:LYS:HE2	1:A:207:CYS:SG	2.51	0.50
1:A:213:TYR:HE2	1:A:215:ARG:HB2	1.76	0.50
1:B:151:LYS:CG	1:B:367:THR:HG22	2.41	0.50
1:A:364:CYS:HB2	1:A:366:MET:O	2.12	0.50
1:A:151:LYS:CG	1:A:367:THR:HG22	2.41	0.50
1:C:236:PRO:HA	1:C:247:TRP:CD1	2.47	0.50
1:A:151:LYS:HG3	1:A:367:THR:CG2	2.41	0.50
1:A:213:TYR:HE2	1:A:215:ARG:HB2	1.76	0.50
1:C:151:LYS:CG	1:C:367:THR:HG22	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:157:TYR:OH	1:A:359:LYS:HD2	2.12	0.50
1:A:312:THR:HG22	1:A:314:TYR:N	2.18	0.50
1:A:166:LYS:HE2	1:A:207:CYS:SG	2.51	0.50
1:B:393:THR:HG22	1:B:394:THR:N	2.27	0.50
1:C:357:VAL:HA	1:C:358:PRO:C	2.31	0.50
1:A:236:PRO:HA	1:A:247:TRP:CD1	2.47	0.50
1:B:166:LYS:HE2	1:B:207:CYS:SG	2.51	0.50
1:B:210:THR:HG22	1:B:223:PHE:HA	1.94	0.50
1:C:173:VAL:CG1	1:C:175:PHE:CZ	2.95	0.50
1:C:300:PHE:CZ	1:C:363:VAL:HG21	2.46	0.50
1:C:245:ARG:HH12	1:C:331:THR:HG22	1.77	0.50
1:B:267:THR:HG22	1:B:268:THR:N	2.26	0.50
1:B:393:THR:HG22	1:B:394:THR:N	2.26	0.50
1:B:466:ARG:HH12	1:B:470:ARG:HB2	1.75	0.50
1:A:236:PRO:HA	1:A:247:TRP:CD1	2.47	0.50
1:B:364:CYS:HB2	1:B:366:MET:O	2.12	0.50
1:C:313:THR:O	1:C:313:THR:HG22	2.11	0.50
1:C:245:ARG:HH12	1:C:331:THR:HG22	1.77	0.50
1:A:210:THR:HG22	1:A:223:PHE:HA	1.94	0.50
1:B:214:VAL:HG13	1:B:214:VAL:O	2.10	0.50
1:B:245:ARG:HH12	1:B:331:THR:HG22	1.77	0.50
1:A:300:PHE:CD1	1:A:360:ARG:CD	2.95	0.50
1:A:429:TYR:CD1	1:A:455:LEU:HD13	2.47	0.50
1:B:236:PRO:HA	1:B:247:TRP:CD1	2.47	0.50
1:A:173:VAL:CG1	1:A:175:PHE:CZ	2.95	0.50
1:A:319:PHE:O	1:A:320:LYS:HG3	2.12	0.50
1:A:386:PHE:HE1	1:A:397:THR:HG21	1.76	0.50
1:B:173:VAL:CG1	1:B:175:PHE:CZ	2.95	0.50
1:B:429:TYR:CD1	1:B:455:LEU:HD13	2.47	0.50
1:B:210:THR:HG22	1:B:223:PHE:HA	1.94	0.50
1:B:251:ASP:HB2	1:B:252:LEU:CD2	2.41	0.50
1:A:300:PHE:CB	1:A:409:LEU:HD21	2.41	0.50
1:B:386:PHE:HE1	1:B:397:THR:HG21	1.76	0.50
1:C:429:TYR:CD1	1:C:455:LEU:HD13	2.47	0.50
1:A:159:PHE:CE2	1:A:278:ALA:HB3	2.47	0.50
1:A:210:THR:HG22	1:A:223:PHE:HA	1.94	0.50
1:A:210:THR:HG22	1:A:223:PHE:HA	1.94	0.50
1:B:214:VAL:O	1:B:214:VAL:HG13	2.09	0.50
1:B:251:ASP:HB2	1:B:252:LEU:CD2	2.41	0.50
1:B:469:LEU:C	1:B:469:LEU:HD13	2.31	0.50
1:A:173:VAL:CG1	1:A:175:PHE:CZ	2.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:210:THR:HG22	1:A:223:PHE:HA	1.94	0.50
1:B:151:LYS:HG3	1:B:367:THR:CG2	2.41	0.50
1:B:312:THR:HG22	1:B:314:TYR:N	2.18	0.50
1:A:319:PHE:O	1:A:320:LYS:HG3	2.12	0.50
1:B:213:TYR:HE2	1:B:215:ARG:HB2	1.76	0.50
1:C:287:PHE:CD1	1:C:299:PRO:HG3	2.47	0.50
1:B:300:PHE:CZ	1:B:363:VAL:HG21	2.46	0.50
1:A:159:PHE:CE2	1:A:278:ALA:HB3	2.47	0.50
1:A:287:PHE:CD1	1:A:299:PRO:HG3	2.47	0.50
1:C:236:PRO:HA	1:C:247:TRP:CD1	2.47	0.50
1:B:159:PHE:CE2	1:B:278:ALA:HB3	2.47	0.50
1:B:245:ARG:HH12	1:B:331:THR:HG22	1.77	0.50
1:A:173:VAL:CG1	1:A:175:PHE:CZ	2.95	0.50
1:A:287:PHE:CD1	1:A:299:PRO:HG3	2.47	0.50
1:A:466:ARG:HH12	1:A:470:ARG:HB2	1.75	0.50
1:B:173:VAL:CG1	1:B:175:PHE:CZ	2.95	0.50
1:B:267:THR:HG22	1:B:268:THR:N	2.26	0.50
1:C:151:LYS:HG3	1:C:367:THR:CG2	2.41	0.50
1:C:236:PRO:HA	1:C:247:TRP:CD1	2.47	0.50
1:A:429:TYR:CD1	1:A:455:LEU:HD13	2.47	0.49
1:B:319:PHE:O	1:B:320:LYS:HG3	2.12	0.49
1:B:245:ARG:HH12	1:B:331:THR:HG22	1.77	0.49
1:C:287:PHE:CD1	1:C:299:PRO:HG3	2.47	0.49
1:C:159:PHE:CE2	1:C:278:ALA:HB3	2.47	0.49
1:B:341:THR:OG1	1:B:356:TRP:HB3	2.12	0.49
1:B:429:TYR:CD1	1:B:455:LEU:HD13	2.47	0.49
1:C:251:ASP:HB2	1:C:252:LEU:CD2	2.41	0.49
1:A:319:PHE:O	1:A:320:LYS:HG3	2.12	0.49
1:A:245:ARG:HH12	1:A:331:THR:HG22	1.77	0.49
1:A:344:LEU:HD12	1:A:344:LEU:N	2.27	0.49
1:B:159:PHE:CE2	1:B:278:ALA:HB3	2.47	0.49
1:C:429:TYR:CD1	1:C:455:LEU:HD13	2.47	0.49
1:B:213:TYR:HE2	1:B:215:ARG:HB2	1.76	0.49
1:C:151:LYS:CG	1:C:367:THR:HG22	2.41	0.49
1:C:173:VAL:CG1	1:C:175:PHE:CZ	2.95	0.49
1:C:251:ASP:HB2	1:C:252:LEU:CD2	2.41	0.49
1:C:159:PHE:CE2	1:C:278:ALA:HB3	2.47	0.49
1:A:159:PHE:CE2	1:A:278:ALA:HB3	2.47	0.49
1:A:393:THR:HG22	1:A:394:THR:N	2.27	0.49
1:A:429:TYR:CD1	1:A:455:LEU:HD13	2.47	0.49
1:B:236:PRO:HA	1:B:247:TRP:CD1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:251:ASP:HB2	1:B:252:LEU:CD2	2.41	0.49
1:B:313:THR:O	1:B:313:THR:HG22	2.10	0.49
1:C:393:THR:HG22	1:C:394:THR:N	2.27	0.49
1:B:287:PHE:CD1	1:B:299:PRO:HG3	2.47	0.49
1:A:236:PRO:HA	1:A:247:TRP:CD1	2.47	0.49
1:A:429:TYR:CD1	1:A:433:HIS:HD2	2.30	0.49
1:B:313:THR:HG22	1:B:313:THR:O	2.10	0.49
1:C:313:THR:HG22	1:C:313:THR:O	2.10	0.49
1:C:393:THR:HG22	1:C:394:THR:N	2.26	0.49
1:A:319:PHE:O	1:A:320:LYS:HG3	2.12	0.49
1:A:344:LEU:N	1:A:344:LEU:HD12	2.28	0.49
1:B:429:TYR:CD1	1:B:455:LEU:HD13	2.47	0.49
1:C:151:LYS:HG3	1:C:367:THR:CG2	2.41	0.49
1:C:173:VAL:CG1	1:C:175:PHE:CZ	2.95	0.49
1:C:210:THR:HG22	1:C:223:PHE:HA	1.94	0.49
1:A:236:PRO:HA	1:A:247:TRP:CD1	2.47	0.49
1:B:319:PHE:O	1:B:320:LYS:HG3	2.12	0.49
1:C:159:PHE:CE2	1:C:278:ALA:HB3	2.47	0.49
1:C:319:PHE:O	1:C:320:LYS:HG3	2.12	0.49
1:B:319:PHE:O	1:B:320:LYS:HG3	2.12	0.49
1:B:300:PHE:CD1	1:B:360:ARG:CD	2.95	0.49
1:B:429:TYR:CD1	1:B:455:LEU:HD13	2.47	0.49
1:C:194:PHE:CE2	1:C:198:ILE:CD1	2.95	0.49
1:A:259:VAL:HG22	1:A:264:ARG:CD	2.39	0.49
1:C:312:THR:HG22	1:C:314:TYR:N	2.18	0.49
1:C:319:PHE:O	1:C:320:LYS:HG3	2.12	0.49
1:B:213:TYR:HE2	1:B:215:ARG:HB2	1.76	0.49
1:B:287:PHE:CD1	1:B:299:PRO:HG3	2.47	0.49
1:B:319:PHE:O	1:B:320:LYS:HG3	2.12	0.49
1:C:194:PHE:CE2	1:C:198:ILE:CD1	2.95	0.49
1:A:329:ASP:O	1:A:333:LYS:HA	2.13	0.49
1:C:173:VAL:CG1	1:C:175:PHE:CZ	2.95	0.49
1:C:312:THR:HG22	1:C:314:TYR:N	2.18	0.49
1:A:173:VAL:CG1	1:A:175:PHE:CZ	2.95	0.49
1:B:173:VAL:CG1	1:B:175:PHE:CZ	2.95	0.49
1:B:236:PRO:HA	1:B:247:TRP:CD1	2.47	0.49
1:B:329:ASP:O	1:B:333:LYS:HA	2.13	0.49
1:C:329:ASP:O	1:C:333:LYS:HA	2.13	0.49
1:A:466:ARG:HH12	1:A:470:ARG:HB2	1.75	0.49
1:B:173:VAL:CG1	1:B:175:PHE:CZ	2.95	0.49
1:C:329:ASP:O	1:C:333:LYS:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:251:ASP:HB2	1:A:252:LEU:CD2	2.41	0.49
1:B:287:PHE:CD1	1:B:299:PRO:HG3	2.47	0.49
1:C:313:THR:O	1:C:313:THR:HG22	2.10	0.49
1:B:213:TYR:HE2	1:B:215:ARG:HB2	1.76	0.49
1:B:251:ASP:HB2	1:B:252:LEU:CD2	2.41	0.49
1:B:245:ARG:HH12	1:B:331:THR:HG22	1.77	0.49
1:C:329:ASP:O	1:C:333:LYS:HA	2.12	0.49
1:A:251:ASP:HB2	1:A:252:LEU:CD2	2.41	0.49
1:A:329:ASP:O	1:A:333:LYS:HA	2.13	0.49
1:B:287:PHE:CD1	1:B:299:PRO:HG3	2.47	0.49
1:B:456:LEU:HD23	1:B:457:SER:H	1.78	0.49
1:C:429:TYR:CD1	1:C:455:LEU:HD13	2.47	0.49
1:A:159:PHE:CE2	1:A:278:ALA:HB3	2.47	0.49
1:A:245:ARG:HH12	1:A:331:THR:HG22	1.77	0.49
1:C:157:TYR:OH	1:C:359:LYS:HD2	2.12	0.49
1:C:429:TYR:CD1	1:C:455:LEU:HD13	2.47	0.49
1:A:356:TRP:HE3	1:A:356:TRP:C	2.16	0.49
1:B:329:ASP:O	1:B:333:LYS:HA	2.13	0.49
1:B:363:VAL:HG11	1:B:411:ASP:N	2.28	0.49
1:B:456:LEU:HD23	1:B:457:SER:H	1.78	0.49
1:C:329:ASP:O	1:C:333:LYS:HA	2.13	0.49
1:B:159:PHE:CE2	1:B:278:ALA:HB3	2.47	0.49
1:C:210:THR:HG22	1:C:223:PHE:HA	1.94	0.49
1:A:287:PHE:CD1	1:A:299:PRO:HG3	2.47	0.49
1:B:236:PRO:HA	1:B:247:TRP:CD1	2.47	0.49
1:B:329:ASP:O	1:B:333:LYS:HA	2.13	0.49
1:B:393:THR:HG22	1:B:394:THR:N	2.26	0.49
1:B:429:TYR:CD1	1:B:433:HIS:HD2	2.30	0.49
1:C:344:LEU:HD12	1:C:344:LEU:N	2.27	0.49
1:C:436:VAL:HG12	1:C:436:VAL:O	2.13	0.49
1:A:393:THR:HG22	1:A:394:THR:N	2.27	0.49
1:A:456:LEU:HD23	1:A:457:SER:H	1.78	0.49
1:B:344:LEU:HD12	1:B:344:LEU:N	2.27	0.49
1:C:319:PHE:O	1:C:320:LYS:HG3	2.12	0.49
1:C:393:THR:HG22	1:C:394:THR:N	2.27	0.49
1:C:151:LYS:HG3	1:C:367:THR:CG2	2.41	0.49
1:A:267:THR:HG22	1:A:268:THR:N	2.26	0.49
1:C:364:CYS:HB2	1:C:366:MET:O	2.12	0.49
1:A:363:VAL:HG11	1:A:411:ASP:N	2.28	0.49
1:A:456:LEU:HD23	1:A:457:SER:H	1.78	0.49
1:C:355:ASP:HB3	1:C:357:VAL:CB	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:421:MET:HE2	1:C:453:GLN:HB2	1.90	0.49
1:B:361:PRO:HA	1:B:412:CYS:CB	2.41	0.49
1:C:159:PHE:CE2	1:C:278:ALA:HB3	2.47	0.49
1:A:151:LYS:CG	1:A:367:THR:HG22	2.41	0.49
1:C:429:TYR:CD1	1:C:433:HIS:HD2	2.30	0.49
1:C:436:VAL:O	1:C:436:VAL:HG12	2.13	0.49
1:C:146:ILE:CB	1:C:424:ILE:HD11	2.38	0.49
1:B:159:PHE:CE2	1:B:278:ALA:HB3	2.47	0.49
1:C:210:THR:HG22	1:C:223:PHE:HA	1.94	0.49
1:C:245:ARG:HH12	1:C:331:THR:HG22	1.77	0.49
1:B:429:TYR:CD1	1:B:433:HIS:HD2	2.30	0.49
1:C:236:PRO:HA	1:C:247:TRP:CD1	2.47	0.49
1:A:194:PHE:CE2	1:A:198:ILE:CD1	2.95	0.49
1:A:456:LEU:HD23	1:A:457:SER:H	1.78	0.49
1:B:210:THR:HG22	1:B:223:PHE:HA	1.94	0.49
1:A:151:LYS:HG3	1:A:367:THR:CG2	2.41	0.49
1:A:436:VAL:HG12	1:A:436:VAL:O	2.13	0.49
1:B:355:ASP:HB3	1:B:357:VAL:CB	2.43	0.49
1:C:363:VAL:HG11	1:C:411:ASP:N	2.28	0.49
1:A:157:TYR:OH	1:A:359:LYS:HD2	2.13	0.49
1:A:436:VAL:HG12	1:A:436:VAL:O	2.13	0.49
1:A:344:LEU:HD12	1:A:344:LEU:N	2.27	0.48
1:C:245:ARG:HH12	1:C:331:THR:HG22	1.77	0.48
1:C:287:PHE:CD1	1:C:299:PRO:HG3	2.47	0.48
1:A:259:VAL:HG22	1:A:264:ARG:CD	2.39	0.48
1:C:344:LEU:N	1:C:344:LEU:HD12	2.27	0.48
1:A:287:PHE:CD1	1:A:299:PRO:HG3	2.47	0.48
1:B:329:ASP:O	1:B:333:LYS:HA	2.12	0.48
1:C:157:TYR:OH	1:C:359:LYS:HD2	2.13	0.48
1:A:245:ARG:HH12	1:A:331:THR:HG22	1.77	0.48
1:A:429:TYR:CD1	1:A:455:LEU:HD13	2.47	0.48
1:A:355:ASP:HB3	1:A:357:VAL:CB	2.43	0.48
1:C:341:THR:OG1	1:C:356:TRP:HB3	2.13	0.48
1:A:285:ASP:OD1	1:A:286:GLU:HG2	2.14	0.48
1:B:285:ASP:OD1	1:B:286:GLU:HG2	2.14	0.48
1:C:287:PHE:CD1	1:C:299:PRO:HG3	2.47	0.48
1:A:285:ASP:OD1	1:A:286:GLU:HG2	2.13	0.48
1:B:285:ASP:OD1	1:B:286:GLU:HG2	2.13	0.48
1:B:361:PRO:HD3	1:B:415:LYS:HZ2	1.76	0.48
1:A:285:ASP:OD1	1:A:286:GLU:HG2	2.14	0.48
1:C:285:ASP:OD1	1:C:286:GLU:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:356:TRP:C	1:C:356:TRP:HE3	2.16	0.48
1:B:157:TYR:OH	1:B:359:LYS:HD2	2.13	0.48
1:B:251:ASP:HB3	1:B:252:LEU:HD22	1.95	0.48
1:C:300:PHE:CD1	1:C:360:ARG:CD	2.95	0.48
1:C:344:LEU:HD12	1:C:344:LEU:N	2.27	0.48
1:B:300:PHE:CD1	1:B:360:ARG:CD	2.94	0.48
1:C:361:PRO:HD3	1:C:415:LYS:HZ2	1.76	0.48
1:A:245:ARG:HH12	1:A:331:THR:HG22	1.77	0.48
1:A:344:LEU:N	1:A:344:LEU:HD12	2.27	0.48
1:B:210:THR:HG22	1:B:223:PHE:HA	1.94	0.48
1:C:436:VAL:O	1:C:436:VAL:HG12	2.13	0.48
1:A:285:ASP:OD1	1:A:286:GLU:HG2	2.14	0.48
1:C:319:PHE:O	1:C:320:LYS:HG3	2.12	0.48
1:B:429:TYR:CD1	1:B:433:HIS:HD2	2.30	0.48
1:A:329:ASP:O	1:A:333:LYS:HA	2.12	0.48
1:C:344:LEU:HD12	1:C:344:LEU:N	2.27	0.48
1:C:429:TYR:CD1	1:C:433:HIS:HD2	2.30	0.48
1:C:285:ASP:OD1	1:C:286:GLU:HG2	2.14	0.48
1:B:436:VAL:HG12	1:B:436:VAL:O	2.13	0.48
1:B:151:LYS:CG	1:B:367:THR:HG22	2.41	0.48
1:B:194:PHE:CE2	1:B:198:ILE:CD1	2.95	0.48
1:C:310:GLU:OE2	1:C:409:LEU:HG	2.14	0.48
1:B:146:ILE:HG22	1:B:373:ASP:O	2.14	0.48
1:B:194:PHE:CE2	1:B:198:ILE:CD1	2.95	0.48
1:B:259:VAL:HG22	1:B:264:ARG:CD	2.39	0.48
1:B:146:ILE:HG22	1:B:373:ASP:O	2.14	0.48
1:B:344:LEU:N	1:B:344:LEU:HD12	2.28	0.48
1:B:310:GLU:OE2	1:B:409:LEU:HG	2.14	0.48
1:A:151:LYS:CG	1:A:367:THR:HG22	2.41	0.48
1:A:429:TYR:CE1	1:A:455:LEU:HD13	2.49	0.48
1:A:436:VAL:O	1:A:436:VAL:HG12	2.13	0.48
1:B:456:LEU:HD23	1:B:457:SER:H	1.78	0.48
1:C:285:ASP:OD1	1:C:286:GLU:HG2	2.14	0.48
1:C:429:TYR:CD1	1:C:433:HIS:CD2	2.99	0.48
1:B:304:ARG:CD	1:B:356:TRP:HZ3	2.27	0.48
1:B:344:LEU:HD12	1:B:344:LEU:N	2.27	0.48
1:B:146:ILE:HG12	1:B:453:GLN:HB3	1.96	0.48
1:B:436:VAL:HG12	1:B:436:VAL:O	2.13	0.48
1:A:146:ILE:HG12	1:A:453:GLN:HB3	1.96	0.48
1:B:310:GLU:OE2	1:B:409:LEU:HG	2.14	0.48
1:B:436:VAL:O	1:B:436:VAL:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:151:LYS:HG3	1:C:367:THR:CG2	2.41	0.48
1:C:146:ILE:HG22	1:C:373:ASP:O	2.14	0.48
1:C:429:TYR:CE1	1:C:455:LEU:HD13	2.49	0.48
1:B:251:ASP:HB3	1:B:252:LEU:HD22	1.95	0.48
1:C:146:ILE:HG12	1:C:453:GLN:HB3	1.96	0.48
1:C:310:GLU:OE2	1:C:409:LEU:HG	2.14	0.48
1:C:429:TYR:CD1	1:C:433:HIS:HD2	2.30	0.48
1:A:341:THR:OG1	1:A:356:TRP:HB3	2.12	0.48
1:A:300:PHE:CD1	1:A:409:LEU:CD2	2.97	0.48
1:A:146:ILE:HG12	1:A:453:GLN:HB3	1.96	0.48
1:B:344:LEU:HD12	1:B:344:LEU:N	2.27	0.48
1:B:356:TRP:C	1:B:356:TRP:HE3	2.16	0.48
1:A:155:ALA:HA	1:A:156:PRO:HD3	1.74	0.48
1:A:310:GLU:OE2	1:A:409:LEU:HG	2.14	0.48
1:A:429:TYR:CE1	1:A:455:LEU:HD13	2.49	0.48
1:B:285:ASP:OD1	1:B:286:GLU:HG2	2.14	0.48
1:A:146:ILE:HG22	1:A:373:ASP:O	2.14	0.48
1:B:357:VAL:HG23	1:B:359:LYS:N	2.28	0.48
1:B:300:PHE:CD1	1:B:409:LEU:CD2	2.97	0.48
1:C:300:PHE:CD1	1:C:409:LEU:CD2	2.97	0.48
1:B:259:VAL:HG22	1:B:264:ARG:CD	2.39	0.48
1:A:146:ILE:HG22	1:A:373:ASP:O	2.14	0.47
1:B:429:TYR:CE1	1:B:455:LEU:HD13	2.49	0.47
1:B:429:TYR:CE1	1:B:455:LEU:HD13	2.49	0.47
1:C:251:ASP:HB3	1:C:252:LEU:HD22	1.95	0.47
1:C:429:TYR:CE1	1:C:455:LEU:HD13	2.49	0.47
1:A:194:PHE:CE2	1:A:198:ILE:CD1	2.95	0.47
1:A:429:TYR:CD1	1:A:433:HIS:HD2	2.30	0.47
1:C:146:ILE:HG22	1:C:373:ASP:O	2.14	0.47
1:B:151:LYS:HG3	1:B:367:THR:CG2	2.41	0.47
1:B:259:VAL:HG22	1:B:264:ARG:CD	2.39	0.47
1:B:285:ASP:OD1	1:B:286:GLU:HG2	2.14	0.47
1:A:429:TYR:CE1	1:A:455:LEU:HD13	2.49	0.47
1:B:146:ILE:HG22	1:B:373:ASP:O	2.14	0.47
1:B:365:THR:HG23	1:B:366:MET:HG2	1.97	0.47
1:A:429:TYR:CE1	1:A:455:LEU:HD13	2.49	0.47
1:C:429:TYR:CE1	1:C:455:LEU:HD13	2.49	0.47
1:A:146:ILE:HG22	1:A:373:ASP:O	2.14	0.47
1:B:146:ILE:HG22	1:B:373:ASP:O	2.14	0.47
1:C:429:TYR:CD1	1:C:433:HIS:HD2	2.30	0.47
1:A:151:LYS:HG3	1:A:367:THR:CG2	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:429:TYR:CD1	1:A:433:HIS:HD2	2.30	0.47
1:B:429:TYR:CE1	1:B:455:LEU:HD13	2.49	0.47
1:C:456:LEU:HD23	1:C:457:SER:H	1.78	0.47
1:B:340:THR:CB	1:B:357:VAL:HG11	2.45	0.47
1:C:151:LYS:CG	1:C:367:THR:HG22	2.41	0.47
1:A:191:PRO:HA	1:A:350:PHE:HA	1.97	0.47
1:B:146:ILE:HG12	1:B:453:GLN:HB3	1.96	0.47
1:B:363:VAL:HB	1:B:364:CYS:CA	2.26	0.47
1:A:151:LYS:HG3	1:A:367:THR:CG2	2.41	0.47
1:C:191:PRO:HA	1:C:350:PHE:HA	1.97	0.47
1:B:259:VAL:HG22	1:B:264:ARG:CD	2.39	0.47
1:C:436:VAL:O	1:C:436:VAL:HG12	2.13	0.47
1:C:456:LEU:HD23	1:C:457:SER:H	1.78	0.47
1:A:194:PHE:CE2	1:A:198:ILE:CD1	2.95	0.47
1:A:360:ARG:NE	1:A:415:LYS:HD3	2.30	0.47
1:C:191:PRO:HA	1:C:350:PHE:HA	1.97	0.47
1:A:146:ILE:HG22	1:A:373:ASP:O	2.14	0.47
1:A:151:LYS:CG	1:A:367:THR:HG22	2.41	0.47
1:C:146:ILE:HG12	1:C:453:GLN:HB3	1.96	0.47
1:C:146:ILE:HG22	1:C:373:ASP:O	2.14	0.47
1:C:429:TYR:CE1	1:C:455:LEU:HD13	2.49	0.47
1:B:436:VAL:O	1:B:436:VAL:HG12	2.13	0.47
1:A:191:PRO:HA	1:A:350:PHE:HA	1.97	0.47
1:A:310:GLU:OE2	1:A:409:LEU:HG	2.14	0.47
1:A:329:ASP:O	1:A:333:LYS:HA	2.13	0.47
1:B:363:VAL:HB	1:B:364:CYS:CA	2.25	0.47
1:B:456:LEU:HD23	1:B:457:SER:H	1.78	0.47
1:C:429:TYR:CD1	1:C:433:HIS:CD2	2.99	0.47
1:C:360:ARG:NE	1:C:415:LYS:HD3	2.30	0.47
1:A:194:PHE:CE2	1:A:198:ILE:CD1	2.95	0.47
1:A:146:ILE:HG12	1:A:453:GLN:HB3	1.96	0.47
1:A:456:LEU:HD23	1:A:457:SER:H	1.78	0.47
1:C:285:ASP:OD1	1:C:286:GLU:HG2	2.13	0.47
1:C:191:PRO:HA	1:C:350:PHE:HA	1.97	0.47
1:B:157:TYR:CE2	1:B:159:PHE:CD1	3.03	0.47
1:B:357:VAL:HG23	1:B:359:LYS:N	2.29	0.47
1:A:304:ARG:CD	1:A:356:TRP:HZ3	2.27	0.47
1:C:157:TYR:CE2	1:C:159:PHE:CD1	3.03	0.47
1:A:157:TYR:CE2	1:A:159:PHE:CD1	3.03	0.47
1:A:259:VAL:HG22	1:A:264:ARG:CD	2.39	0.47
1:C:251:ASP:HB3	1:C:252:LEU:HD22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:191:PRO:HA	1:C:350:PHE:HA	1.97	0.47
1:A:157:TYR:CE2	1:A:159:PHE:CD1	3.03	0.47
1:A:436:VAL:O	1:A:436:VAL:HG12	2.13	0.47
1:C:174:TRP:CD1	1:C:263:HIS:CE1	3.03	0.47
1:B:151:LYS:CG	1:B:367:THR:HG22	2.41	0.47
1:B:157:TYR:CE2	1:B:159:PHE:CD1	3.03	0.47
1:B:295:VAL:HG13	1:B:345:LEU:HD23	1.97	0.47
1:A:359:LYS:CG	1:A:409:LEU:HG	2.42	0.47
1:B:175:PHE:HB2	1:B:260:GLU:HA	1.97	0.47
1:B:303:TYR:HD2	1:B:321:GLN:OE1	1.98	0.47
1:C:157:TYR:CE2	1:C:159:PHE:CD1	3.03	0.47
1:C:365:THR:HG23	1:C:366:MET:HG2	1.97	0.47
1:A:403:PRO:HG2	1:A:406:ARG:HD2	1.97	0.47
1:A:340:THR:CB	1:A:357:VAL:HG11	2.45	0.47
1:B:175:PHE:HB2	1:B:260:GLU:HA	1.97	0.47
1:B:303:TYR:HD2	1:B:321:GLN:OE1	1.98	0.47
1:C:157:TYR:CE2	1:C:159:PHE:CD1	3.03	0.47
1:C:174:TRP:CD1	1:C:263:HIS:CE1	3.03	0.47
1:C:456:LEU:HD23	1:C:457:SER:H	1.78	0.47
1:C:312:THR:HG22	1:C:314:TYR:N	2.18	0.47
1:A:174:TRP:CD1	1:A:263:HIS:CE1	3.04	0.46
1:C:251:ASP:HB3	1:C:252:LEU:HD22	1.95	0.46
1:C:174:TRP:CD1	1:C:263:HIS:CE1	3.04	0.46
1:B:146:ILE:HG12	1:B:453:GLN:HB3	1.96	0.46
1:B:300:PHE:CB	1:B:409:LEU:HD21	2.41	0.46
1:B:429:TYR:CE1	1:B:455:LEU:HD13	2.49	0.46
1:C:146:ILE:HG12	1:C:453:GLN:HB3	1.96	0.46
1:A:403:PRO:HG2	1:A:406:ARG:HD2	1.98	0.46
1:B:151:LYS:HG3	1:B:367:THR:CG2	2.41	0.46
1:A:146:ILE:HG12	1:A:453:GLN:HB3	1.96	0.46
1:B:191:PRO:HA	1:B:350:PHE:HA	1.97	0.46
1:B:429:TYR:CD1	1:B:433:HIS:CD2	2.99	0.46
1:C:155:ALA:HB1	1:C:156:PRO:HD2	1.96	0.46
1:C:166:LYS:HG2	1:C:271:CYS:HA	1.97	0.46
1:C:303:TYR:HD2	1:C:321:GLN:OE1	1.99	0.46
1:C:456:LEU:HD23	1:C:457:SER:H	1.78	0.46
1:B:403:PRO:HG2	1:B:406:ARG:HD2	1.97	0.46
1:C:357:VAL:HG23	1:C:359:LYS:N	2.28	0.46
1:C:303:TYR:HD2	1:C:321:GLN:OE1	1.99	0.46
1:B:438:GLN:HB2	1:B:439:PRO:CD	2.46	0.46
1:A:157:TYR:CE2	1:A:159:PHE:CD1	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:PHE:CD2	1:A:399:LEU:HA	2.51	0.46
1:B:191:PRO:HA	1:B:350:PHE:HA	1.97	0.46
1:B:360:ARG:NE	1:B:415:LYS:HD3	2.30	0.46
1:A:157:TYR:CE2	1:A:159:PHE:CD1	3.03	0.46
1:B:174:TRP:CD1	1:B:263:HIS:CE1	3.04	0.46
1:A:155:ALA:HB1	1:A:156:PRO:HD2	1.96	0.46
1:A:403:PRO:HG2	1:A:406:ARG:HD2	1.98	0.46
1:B:166:LYS:HG2	1:B:271:CYS:HA	1.97	0.46
1:C:438:GLN:HB2	1:C:439:PRO:CD	2.46	0.46
1:A:300:PHE:CD1	1:A:360:ARG:CD	2.94	0.46
1:A:384:PHE:CD2	1:A:399:LEU:HA	2.51	0.46
1:B:303:TYR:HD2	1:B:321:GLN:OE1	1.98	0.46
1:A:191:PRO:HA	1:A:350:PHE:HA	1.97	0.46
1:A:429:TYR:CD1	1:A:433:HIS:HD2	2.30	0.46
1:B:166:LYS:HG2	1:B:271:CYS:HA	1.97	0.46
1:C:166:LYS:HG2	1:C:271:CYS:HA	1.98	0.46
1:A:361:PRO:HA	1:A:412:CYS:CB	2.41	0.46
1:A:429:TYR:CD1	1:A:433:HIS:CD2	2.99	0.46
1:C:303:TYR:HD2	1:C:321:GLN:OE1	1.98	0.46
1:C:421:MET:HE2	1:C:453:GLN:HB2	1.91	0.46
1:A:146:ILE:CG1	1:A:453:GLN:HB3	2.46	0.46
1:A:251:ASP:HB3	1:A:252:LEU:HD22	1.95	0.46
1:A:384:PHE:CD2	1:A:399:LEU:HA	2.51	0.46
1:C:341:THR:OG1	1:C:356:TRP:HB3	2.16	0.46
1:C:384:PHE:CD2	1:C:399:LEU:HA	2.51	0.46
1:B:194:PHE:CE2	1:B:198:ILE:CD1	2.95	0.46
1:B:175:PHE:HB2	1:B:260:GLU:HA	1.97	0.46
1:B:418:ARG:HA	1:B:421:MET:HG2	1.98	0.46
1:C:438:GLN:HB2	1:C:439:PRO:CD	2.46	0.46
1:A:153:ASN:HB3	1:A:365:THR:O	2.16	0.46
1:B:251:ASP:HB3	1:B:252:LEU:HD22	1.95	0.46
1:C:146:ILE:HG22	1:C:373:ASP:O	2.14	0.46
1:A:174:TRP:CD1	1:A:263:HIS:CE1	3.04	0.46
1:B:403:PRO:HB2	1:B:406:ARG:HD3	1.98	0.46
1:B:146:ILE:CG1	1:B:453:GLN:HB3	2.46	0.46
1:C:157:TYR:CE2	1:C:159:PHE:CD1	3.03	0.46
1:A:191:PRO:HA	1:A:350:PHE:HA	1.97	0.46
1:A:365:THR:HG23	1:A:366:MET:HG2	1.97	0.46
1:A:425:PHE:CD1	1:A:429:TYR:HB2	2.51	0.46
1:B:157:TYR:CE2	1:B:159:PHE:CD1	3.03	0.46
1:B:146:ILE:CG1	1:B:453:GLN:HB3	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:401:GLU:CD	1:C:475:LYS:HD2	2.36	0.46
1:A:146:ILE:CG1	1:A:453:GLN:HB3	2.46	0.46
1:B:295:VAL:HG13	1:B:345:LEU:HD23	1.97	0.46
1:A:174:TRP:CD1	1:A:263:HIS:CE1	3.03	0.46
1:A:425:PHE:CD1	1:A:429:TYR:HB2	2.51	0.46
1:B:153:ASN:HB3	1:B:365:THR:O	2.16	0.46
1:B:384:PHE:CD2	1:B:399:LEU:HA	2.51	0.46
1:C:425:PHE:CD1	1:C:429:TYR:HB2	2.51	0.46
1:A:341:THR:OG1	1:A:356:TRP:HB3	2.16	0.46
1:B:251:ASP:HB3	1:B:252:LEU:HD22	1.95	0.46
1:B:341:THR:OG1	1:B:356:TRP:HB3	2.16	0.46
1:B:418:ARG:HA	1:B:421:MET:HG2	1.98	0.46
1:C:146:ILE:HG12	1:C:453:GLN:HB3	1.96	0.46
1:A:361:PRO:HD3	1:A:415:LYS:HZ2	1.80	0.46
1:A:418:ARG:HA	1:A:421:MET:HG2	1.98	0.46
1:A:425:PHE:CD1	1:A:429:TYR:HB2	2.51	0.46
1:C:146:ILE:CG1	1:C:453:GLN:HB3	2.46	0.46
1:A:430:ASN:HD22	1:A:430:ASN:H	1.64	0.46
1:A:166:LYS:HG2	1:A:271:CYS:HA	1.98	0.46
1:A:303:TYR:HD2	1:A:321:GLN:OE1	1.98	0.46
1:A:363:VAL:HB	1:A:364:CYS:CA	2.26	0.46
1:A:384:PHE:CD2	1:A:399:LEU:HA	2.51	0.46
1:B:403:PRO:HG2	1:B:406:ARG:HD2	1.98	0.46
1:C:174:TRP:CD1	1:C:263:HIS:CE1	3.04	0.46
1:C:303:TYR:HB2	1:C:321:GLN:OE1	2.16	0.46
1:C:418:ARG:HA	1:C:421:MET:HG2	1.98	0.46
1:A:166:LYS:HG2	1:A:271:CYS:HA	1.98	0.46
1:B:146:ILE:HG12	1:B:453:GLN:HB3	1.96	0.46
1:B:155:ALA:HB1	1:B:156:PRO:HD2	1.96	0.46
1:C:146:ILE:CG1	1:C:453:GLN:HB3	2.46	0.46
1:C:303:TYR:HB2	1:C:321:GLN:OE1	2.16	0.46
1:B:384:PHE:CD2	1:B:399:LEU:HA	2.51	0.46
1:A:251:ASP:HB3	1:A:252:LEU:HD22	1.95	0.46
1:A:356:TRP:CZ3	1:A:362:SER:CB	2.99	0.46
1:A:400:THR:HG22	1:A:401:GLU:O	2.16	0.46
1:A:403:PRO:HG2	1:A:406:ARG:HD2	1.98	0.46
1:B:174:TRP:CD1	1:B:263:HIS:CE1	3.03	0.46
1:B:418:ARG:HA	1:B:421:MET:HG2	1.98	0.46
1:B:425:PHE:CD1	1:B:429:TYR:HB2	2.51	0.46
1:B:442:TYR:OH	1:B:474:ARG:HD3	2.16	0.46
1:C:153:ASN:HB3	1:C:365:THR:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:303:TYR:HB2	1:C:321:GLN:OE1	2.16	0.46
1:C:384:PHE:CD2	1:C:399:LEU:HA	2.51	0.46
1:A:146:ILE:CG1	1:A:453:GLN:HB3	2.46	0.46
1:B:175:PHE:HB2	1:B:260:GLU:HA	1.97	0.46
1:B:425:PHE:CD1	1:B:429:TYR:HB2	2.51	0.46
1:A:174:TRP:CD1	1:A:263:HIS:CE1	3.03	0.46
1:A:295:VAL:HG13	1:A:345:LEU:HD23	1.97	0.46
1:A:442:TYR:OH	1:A:474:ARG:HD3	2.16	0.46
1:B:400:THR:HG22	1:B:401:GLU:O	2.16	0.46
1:B:442:TYR:OH	1:B:474:ARG:HD3	2.16	0.46
1:C:403:PRO:HG2	1:C:406:ARG:HD2	1.98	0.46
1:C:425:PHE:CD1	1:C:429:TYR:HB2	2.51	0.46
1:C:442:TYR:OH	1:C:474:ARG:HD3	2.16	0.46
1:A:166:LYS:HG2	1:A:271:CYS:HA	1.98	0.46
1:A:295:VAL:HG13	1:A:345:LEU:HD23	1.97	0.46
1:B:403:PRO:HB2	1:B:406:ARG:HD3	1.98	0.46
1:C:400:THR:HG22	1:C:401:GLU:O	2.16	0.46
1:C:425:PHE:CD1	1:C:429:TYR:HB2	2.51	0.46
1:A:425:PHE:CD1	1:A:429:TYR:HB2	2.51	0.46
1:A:430:ASN:HD22	1:A:430:ASN:H	1.64	0.46
1:B:303:TYR:HD2	1:B:321:GLN:OE1	1.98	0.46
1:B:400:THR:HG22	1:B:401:GLU:O	2.16	0.46
1:C:295:VAL:HG13	1:C:345:LEU:HD23	1.97	0.46
1:C:401:GLU:CD	1:C:475:LYS:HD2	2.36	0.46
1:B:174:TRP:CD1	1:B:263:HIS:CE1	3.03	0.46
1:B:194:PHE:CD1	1:B:344:LEU:HD22	2.51	0.46
1:B:430:ASN:H	1:B:430:ASN:HD22	1.64	0.46
1:B:429:TYR:CD1	1:B:433:HIS:HD2	2.30	0.46
1:C:359:LYS:HG3	1:C:409:LEU:CG	2.40	0.46
1:C:357:VAL:CG2	1:C:409:LEU:CD2	2.94	0.46
1:A:442:TYR:OH	1:A:474:ARG:HD3	2.16	0.46
1:B:425:PHE:CD1	1:B:429:TYR:HB2	2.51	0.46
1:C:425:PHE:CD1	1:C:429:TYR:HB2	2.51	0.46
1:B:157:TYR:CE2	1:B:159:PHE:CD1	3.03	0.46
1:C:429:TYR:CD1	1:C:433:HIS:CD2	2.99	0.46
1:B:194:PHE:CD1	1:B:344:LEU:HD22	2.51	0.46
1:C:146:ILE:CG1	1:C:453:GLN:HB3	2.46	0.46
1:C:166:LYS:HG2	1:C:271:CYS:HA	1.98	0.46
1:C:194:PHE:CD1	1:C:344:LEU:HD22	2.51	0.46
1:C:442:TYR:OH	1:C:474:ARG:HD3	2.16	0.46
1:A:194:PHE:CD1	1:A:344:LEU:HD22	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:175:PHE:CE1	1:B:258:ARG:HA	2.51	0.45
1:B:303:TYR:HB2	1:B:321:GLN:OE1	2.16	0.45
1:A:194:PHE:CD1	1:A:344:LEU:HD22	2.52	0.45
1:A:401:GLU:CD	1:A:475:LYS:HD2	2.36	0.45
1:B:174:TRP:CD1	1:B:263:HIS:CE1	3.04	0.45
1:C:303:TYR:HB2	1:C:321:GLN:OE1	2.16	0.45
1:C:400:THR:HG22	1:C:401:GLU:O	2.16	0.45
1:C:430:ASN:H	1:C:430:ASN:HD22	1.64	0.45
1:A:194:PHE:CD1	1:A:344:LEU:HD22	2.51	0.45
1:B:194:PHE:CD1	1:B:344:LEU:HD22	2.51	0.45
1:B:438:GLN:HB2	1:B:439:PRO:CD	2.46	0.45
1:A:194:PHE:CD1	1:A:344:LEU:HD22	2.51	0.45
1:A:295:VAL:HG13	1:A:345:LEU:HD23	1.97	0.45
1:B:151:LYS:HG3	1:B:367:THR:CG2	2.41	0.45
1:A:303:TYR:HD2	1:A:321:GLN:OE1	1.98	0.45
1:A:295:VAL:HG13	1:A:345:LEU:HD23	1.97	0.45
1:A:400:THR:HG22	1:A:401:GLU:N	2.31	0.45
1:B:401:GLU:CD	1:B:475:LYS:HD2	2.36	0.45
1:C:303:TYR:HD2	1:C:321:GLN:OE1	1.99	0.45
1:C:384:PHE:CD2	1:C:399:LEU:HA	2.51	0.45
1:C:403:PRO:HG2	1:C:406:ARG:HD2	1.97	0.45
1:B:175:PHE:CE1	1:B:258:ARG:HA	2.52	0.45
1:C:403:PRO:HG2	1:C:406:ARG:HD2	1.98	0.45
1:A:438:GLN:HB2	1:A:439:PRO:CD	2.46	0.45
1:A:401:GLU:CD	1:A:475:LYS:HD2	2.36	0.45
1:A:175:PHE:HB2	1:A:260:GLU:HA	1.97	0.45
1:A:303:TYR:HB2	1:A:321:GLN:OE1	2.16	0.45
1:B:194:PHE:CD1	1:B:344:LEU:HD22	2.51	0.45
1:B:400:THR:HG22	1:B:401:GLU:N	2.31	0.45
1:C:175:PHE:HB2	1:C:260:GLU:HA	1.97	0.45
1:C:401:GLU:CD	1:C:475:LYS:HD2	2.36	0.45
1:C:418:ARG:HA	1:C:421:MET:HG2	1.98	0.45
1:A:146:ILE:CG1	1:A:453:GLN:HB3	2.46	0.45
1:A:175:PHE:HB2	1:A:260:GLU:HA	1.97	0.45
1:B:303:TYR:HB2	1:B:321:GLN:OE1	2.16	0.45
1:C:442:TYR:OH	1:C:474:ARG:HD3	2.16	0.45
1:B:418:ARG:HA	1:B:421:MET:HG2	1.98	0.45
1:C:175:PHE:HB2	1:C:260:GLU:HA	1.97	0.45
1:A:303:TYR:HB2	1:A:321:GLN:OE1	2.16	0.45
1:B:425:PHE:CD1	1:B:429:TYR:HB2	2.51	0.45
1:C:175:PHE:CE1	1:C:258:ARG:HA	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:194:PHE:CD1	1:C:344:LEU:HD22	2.51	0.45
1:C:295:VAL:HG13	1:C:345:LEU:HD23	1.97	0.45
1:C:400:THR:HG22	1:C:401:GLU:O	2.16	0.45
1:A:357:VAL:HG23	1:A:359:LYS:N	2.28	0.45
1:B:148:VAL:CG1	1:B:368:LYS:HG3	2.47	0.45
1:B:146:ILE:CG1	1:B:453:GLN:HB3	2.46	0.45
1:A:303:TYR:HB2	1:A:321:GLN:OE1	2.16	0.45
1:A:148:VAL:CG1	1:A:368:LYS:HG3	2.47	0.45
1:A:400:THR:HG22	1:A:401:GLU:N	2.31	0.45
1:A:403:PRO:HB2	1:A:406:ARG:HD3	1.98	0.45
1:A:442:TYR:OH	1:A:474:ARG:HD3	2.16	0.45
1:C:175:PHE:HB2	1:C:260:GLU:HA	1.97	0.45
1:C:194:PHE:CD1	1:C:344:LEU:HD22	2.51	0.45
1:A:224:HIS:CE1	1:A:268:THR:HG23	2.52	0.45
1:B:400:THR:HG22	1:B:401:GLU:N	2.31	0.45
1:C:384:PHE:CD2	1:C:399:LEU:HA	2.51	0.45
1:A:400:THR:HG22	1:A:401:GLU:N	2.31	0.45
1:A:418:ARG:HA	1:A:421:MET:HG2	1.98	0.45
1:A:430:ASN:HD22	1:A:430:ASN:H	1.64	0.45
1:A:429:TYR:CD1	1:A:433:HIS:CD2	2.99	0.45
1:B:362:SER:CB	1:B:409:LEU:CD2	2.93	0.45
1:A:429:TYR:CD1	1:A:433:HIS:CD2	2.99	0.45
1:C:175:PHE:CE1	1:C:258:ARG:HA	2.52	0.45
1:C:295:VAL:HG13	1:C:345:LEU:HD23	1.97	0.45
1:C:403:PRO:HB2	1:C:406:ARG:HD3	1.98	0.45
1:A:303:TYR:HD2	1:A:321:GLN:OE1	1.99	0.45
1:B:148:VAL:CG1	1:B:368:LYS:HG3	2.47	0.45
1:C:175:PHE:CE1	1:C:258:ARG:HA	2.52	0.45
1:C:295:VAL:HG13	1:C:345:LEU:HD23	1.97	0.45
1:A:418:ARG:HA	1:A:421:MET:HG2	1.98	0.45
1:A:401:GLU:CD	1:A:475:LYS:HD2	2.36	0.45
1:B:175:PHE:CE1	1:B:258:ARG:HA	2.52	0.45
1:B:384:PHE:CD2	1:B:399:LEU:HA	2.51	0.45
1:C:148:VAL:CG1	1:C:368:LYS:HG3	2.47	0.45
1:C:400:THR:HG22	1:C:401:GLU:N	2.32	0.45
1:A:401:GLU:CD	1:A:475:LYS:HD2	2.36	0.45
1:A:251:ASP:HB3	1:A:252:LEU:HD22	1.95	0.45
1:A:400:THR:HG22	1:A:401:GLU:O	2.16	0.45
1:A:442:TYR:OH	1:A:474:ARG:HD3	2.16	0.45
1:C:403:PRO:HG2	1:C:406:ARG:HD2	1.98	0.45
1:A:303:TYR:HD2	1:A:321:GLN:OE1	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:360:ARG:HD2	1:A:411:ASP:OD2	2.16	0.45
1:B:403:PRO:HB2	1:B:406:ARG:HD3	1.98	0.45
1:C:224:HIS:CE1	1:C:268:THR:HG23	2.52	0.45
1:A:224:HIS:CE1	1:A:268:THR:HG23	2.52	0.45
1:B:430:ASN:H	1:B:430:ASN:HD22	1.64	0.45
1:A:418:ARG:HA	1:A:421:MET:HG2	1.98	0.45
1:B:146:ILE:CG1	1:B:453:GLN:HB3	2.46	0.45
1:C:400:THR:HG22	1:C:401:GLU:N	2.31	0.45
1:A:400:THR:HG22	1:A:401:GLU:N	2.32	0.45
1:B:148:VAL:CG1	1:B:368:LYS:HG3	2.47	0.45
1:C:175:PHE:CE1	1:C:258:ARG:HA	2.52	0.45
1:A:362:SER:CB	1:A:409:LEU:CD2	2.93	0.45
1:B:224:HIS:CE1	1:B:268:THR:HG23	2.52	0.45
1:B:403:PRO:HG2	1:B:406:ARG:HD2	1.98	0.45
1:B:357:VAL:HG23	1:B:409:LEU:HD11	1.99	0.45
1:A:166:LYS:HG2	1:A:271:CYS:HA	1.98	0.45
1:A:400:THR:HG22	1:A:401:GLU:O	2.16	0.45
1:A:438:GLN:HB2	1:A:439:PRO:CD	2.46	0.45
1:B:175:PHE:CE1	1:B:258:ARG:HA	2.52	0.45
1:C:148:VAL:CG1	1:C:368:LYS:HG3	2.47	0.45
1:C:166:LYS:HG2	1:C:271:CYS:HA	1.98	0.45
1:C:194:PHE:CD1	1:C:344:LEU:HD22	2.51	0.45
1:A:438:GLN:HB2	1:A:439:PRO:CD	2.46	0.45
1:B:400:THR:HG22	1:B:401:GLU:N	2.32	0.45
1:B:430:ASN:H	1:B:430:ASN:HD22	1.64	0.45
1:B:303:TYR:HB2	1:B:321:GLN:OE1	2.16	0.45
1:B:430:ASN:H	1:B:430:ASN:HD22	1.64	0.45
1:B:442:TYR:OH	1:B:474:ARG:HD3	2.16	0.45
1:A:175:PHE:HB2	1:A:260:GLU:HA	1.98	0.45
1:B:401:GLU:CD	1:B:475:LYS:HD2	2.36	0.45
1:C:194:PHE:CE2	1:C:198:ILE:CD1	2.95	0.45
1:B:438:GLN:HB2	1:B:439:PRO:CD	2.46	0.45
1:C:157:TYR:HB2	1:C:284:TYR:CE1	2.52	0.45
1:B:295:VAL:HG13	1:B:345:LEU:HD23	1.97	0.45
1:C:430:ASN:H	1:C:430:ASN:HD22	1.64	0.45
1:A:175:PHE:CE1	1:A:258:ARG:HA	2.52	0.45
1:A:403:PRO:HB2	1:A:406:ARG:HD3	1.98	0.45
1:B:194:PHE:CE2	1:B:198:ILE:CD1	2.95	0.45
1:B:191:PRO:HA	1:B:350:PHE:HA	1.97	0.45
1:B:384:PHE:CD2	1:B:399:LEU:HA	2.51	0.45
1:C:148:VAL:CG1	1:C:368:LYS:HG3	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:151:LYS:CG	1:C:367:THR:CG2	2.95	0.45
1:A:175:PHE:CE1	1:A:258:ARG:HA	2.51	0.45
1:B:295:VAL:HG13	1:B:345:LEU:HD23	1.97	0.45
1:B:151:LYS:CG	1:B:367:THR:CG2	2.95	0.45
1:B:400:THR:HG22	1:B:401:GLU:N	2.32	0.45
1:C:175:PHE:HB2	1:C:260:GLU:HA	1.98	0.45
1:A:175:PHE:CE1	1:A:258:ARG:HA	2.52	0.45
1:A:430:ASN:HD22	1:A:430:ASN:H	1.64	0.45
1:C:224:HIS:CE1	1:C:268:THR:HG23	2.52	0.45
1:C:340:THR:CB	1:C:357:VAL:HG11	2.45	0.45
1:C:418:ARG:HA	1:C:421:MET:HG2	1.98	0.45
1:C:438:GLN:HB2	1:C:439:PRO:CD	2.46	0.45
1:A:175:PHE:HB2	1:A:260:GLU:HA	1.97	0.45
1:B:224:HIS:CE1	1:B:268:THR:HG23	2.52	0.45
1:C:224:HIS:CE1	1:C:268:THR:HG23	2.52	0.45
1:C:157:TYR:HB2	1:C:284:TYR:CE1	2.52	0.45
1:C:429:TYR:CD1	1:C:433:HIS:CD2	2.99	0.44
1:A:151:LYS:CG	1:A:367:THR:CG2	2.95	0.44
1:A:251:ASP:HB3	1:A:252:LEU:HD22	1.95	0.44
1:B:303:TYR:HB2	1:B:321:GLN:OE1	2.16	0.44
1:B:191:PRO:HA	1:B:350:PHE:HA	1.97	0.44
1:B:151:LYS:CG	1:B:367:THR:CG2	2.95	0.44
1:C:442:TYR:OH	1:C:474:ARG:HD3	2.16	0.44
1:A:466:ARG:NH1	1:A:470:ARG:HB2	2.33	0.44
1:B:157:TYR:HB2	1:B:284:TYR:CE1	2.52	0.44
1:C:146:ILE:CG1	1:C:453:GLN:HB3	2.46	0.44
1:C:194:PHE:CE2	1:C:198:ILE:CD1	2.95	0.44
1:C:356:TRP:CZ3	1:C:362:SER:CB	2.99	0.44
1:B:166:LYS:HG2	1:B:271:CYS:HA	1.98	0.44
1:B:466:ARG:NH1	1:B:470:ARG:HB2	2.33	0.44
1:C:400:THR:HG22	1:C:401:GLU:O	2.16	0.44
1:A:148:VAL:CG1	1:A:368:LYS:HG3	2.47	0.44
1:B:438:GLN:HB2	1:B:439:PRO:CD	2.46	0.44
1:C:251:ASP:HB3	1:C:252:LEU:HD22	1.95	0.44
1:C:418:ARG:HA	1:C:421:MET:HG2	1.98	0.44
1:A:157:TYR:HB2	1:A:284:TYR:CE1	2.52	0.44
1:A:197:VAL:HG13	1:A:198:ILE:N	2.32	0.44
1:B:197:VAL:HG13	1:B:198:ILE:N	2.32	0.44
1:B:166:LYS:HG2	1:B:271:CYS:HA	1.98	0.44
1:B:400:THR:HG22	1:B:401:GLU:O	2.16	0.44
1:B:224:HIS:CE1	1:B:268:THR:HG23	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:151:LYS:CG	1:B:367:THR:CG2	2.95	0.44
1:B:466:ARG:NH1	1:B:470:ARG:HB2	2.33	0.44
1:C:151:LYS:CG	1:C:367:THR:CG2	2.95	0.44
1:A:148:VAL:CG1	1:A:368:LYS:HG3	2.47	0.44
1:B:401:GLU:CD	1:B:475:LYS:HD2	2.36	0.44
1:C:403:PRO:HB2	1:C:406:ARG:HD3	1.98	0.44
1:C:466:ARG:NH1	1:C:470:ARG:HB2	2.33	0.44
1:A:466:ARG:NH1	1:A:470:ARG:HB2	2.32	0.44
1:B:157:TYR:HB2	1:B:284:TYR:CE1	2.52	0.44
1:C:357:VAL:HG23	1:C:409:LEU:HD11	1.99	0.44
1:A:391:ILE:O	1:A:392:SER:HB2	2.18	0.44
1:B:391:ILE:O	1:B:392:SER:HB2	2.18	0.44
1:C:151:LYS:CG	1:C:367:THR:CG2	2.95	0.44
1:B:401:GLU:CD	1:B:475:LYS:HD2	2.36	0.44
1:A:157:TYR:HB2	1:A:284:TYR:CE1	2.52	0.44
1:C:357:VAL:HG23	1:C:359:LYS:N	2.29	0.44
1:C:363:VAL:HB	1:C:364:CYS:CA	2.26	0.44
1:B:148:VAL:CG1	1:B:368:LYS:HG3	2.47	0.44
1:B:360:ARG:HD2	1:B:411:ASP:OD2	2.16	0.44
1:C:224:HIS:NE2	1:C:250:THR:HG21	2.33	0.44
1:C:157:TYR:HB2	1:C:284:TYR:CE1	2.52	0.44
1:C:304:ARG:CD	1:C:356:TRP:HZ3	2.27	0.44
1:C:151:LYS:CG	1:C:367:THR:CG2	2.95	0.44
1:B:224:HIS:CE1	1:B:268:THR:HG23	2.52	0.44
1:B:224:HIS:NE2	1:B:250:THR:HG21	2.33	0.44
1:B:363:VAL:CB	1:B:364:CYS:HA	2.18	0.44
1:C:280:SER:HB2	1:C:287:PHE:HB3	2.00	0.44
1:B:400:THR:HG22	1:B:401:GLU:O	2.16	0.44
1:B:197:VAL:HG13	1:B:198:ILE:N	2.32	0.44
1:C:400:THR:HG22	1:C:401:GLU:N	2.32	0.44
1:A:197:VAL:HG13	1:A:198:ILE:N	2.32	0.44
1:A:224:HIS:CE1	1:A:268:THR:HG23	2.52	0.44
1:A:280:SER:HB2	1:A:287:PHE:HB3	2.00	0.44
1:A:224:HIS:NE2	1:A:250:THR:HG21	2.33	0.44
1:A:466:ARG:NH1	1:A:470:ARG:HB2	2.33	0.44
1:A:175:PHE:CE1	1:A:258:ARG:HA	2.52	0.44
1:A:391:ILE:O	1:A:392:SER:HB2	2.18	0.44
1:B:403:PRO:HG2	1:B:406:ARG:HD2	1.98	0.44
1:A:303:TYR:HB2	1:A:321:GLN:OE1	2.16	0.44
1:A:357:VAL:HA	1:A:358:PRO:HD3	1.83	0.44
1:A:391:ILE:O	1:A:392:SER:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:357:VAL:CG2	1:A:409:LEU:CD2	2.94	0.44
1:C:391:ILE:O	1:C:392:SER:HB2	2.18	0.44
1:C:360:ARG:HD2	1:C:411:ASP:OD2	2.16	0.44
1:A:280:SER:HB2	1:A:287:PHE:HB3	2.00	0.44
1:A:148:VAL:CG1	1:A:368:LYS:HG3	2.47	0.44
1:B:466:ARG:NH1	1:B:470:ARG:HB2	2.33	0.44
1:A:197:VAL:HG13	1:A:198:ILE:N	2.32	0.44
1:B:429:TYR:CD1	1:B:433:HIS:CD2	2.99	0.44
1:C:224:HIS:NE2	1:C:250:THR:HG21	2.33	0.44
1:C:157:TYR:HB2	1:C:284:TYR:CE1	2.52	0.44
1:C:391:ILE:O	1:C:392:SER:HB2	2.18	0.44
1:A:224:HIS:NE2	1:A:250:THR:HG21	2.33	0.44
1:B:384:PHE:HB2	1:B:397:THR:HG23	1.99	0.44
1:C:280:SER:HB2	1:C:287:PHE:HB3	2.00	0.44
1:C:391:ILE:O	1:C:392:SER:HB2	2.18	0.44
1:C:438:GLN:HB2	1:C:439:PRO:CD	2.46	0.44
1:B:224:HIS:NE2	1:B:250:THR:HG21	2.33	0.44
1:B:357:VAL:C	1:B:359:LYS:H	2.20	0.44
1:B:442:TYR:OH	1:B:474:ARG:HD3	2.16	0.44
1:C:224:HIS:CE1	1:C:268:THR:HG23	2.52	0.44
1:C:224:HIS:NE2	1:C:250:THR:HG21	2.33	0.44
1:C:357:VAL:C	1:C:359:LYS:H	2.20	0.44
1:C:466:ARG:NH1	1:C:470:ARG:HB2	2.33	0.44
1:A:224:HIS:CE1	1:A:268:THR:HG23	2.52	0.44
1:A:280:SER:HB2	1:A:287:PHE:HB3	2.00	0.44
1:A:429:TYR:CD1	1:A:433:HIS:CD2	2.99	0.44
1:B:356:TRP:CZ3	1:B:362:SER:CB	2.99	0.44
1:C:401:GLU:CD	1:C:475:LYS:HD2	2.36	0.44
1:C:466:ARG:NH1	1:C:470:ARG:HB2	2.33	0.44
1:A:197:VAL:HG13	1:A:198:ILE:N	2.32	0.44
1:B:151:LYS:CG	1:B:367:THR:CG2	2.95	0.44
1:A:151:LYS:CG	1:A:367:THR:CG2	2.95	0.44
1:A:400:THR:HG22	1:A:401:GLU:O	2.16	0.44
1:B:280:SER:HB2	1:B:287:PHE:HB3	2.00	0.44
1:A:357:VAL:C	1:A:359:LYS:H	2.20	0.44
1:B:157:TYR:HB2	1:B:284:TYR:CE1	2.52	0.44
1:A:151:LYS:CG	1:A:367:THR:CG2	2.95	0.44
1:B:280:SER:HB2	1:B:287:PHE:HB3	2.00	0.44
1:C:148:VAL:CG1	1:C:368:LYS:HG3	2.47	0.44
1:A:280:SER:HB2	1:A:287:PHE:HB3	2.00	0.44
1:A:391:ILE:O	1:A:392:SER:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:224:HIS:NE2	1:B:250:THR:HG21	2.33	0.44
1:C:430:ASN:HD22	1:C:430:ASN:H	1.64	0.44
1:B:190:ALA:HB2	1:B:213:TYR:CE1	2.53	0.44
1:B:331:THR:CG2	1:B:332:THR:N	2.81	0.44
1:A:224:HIS:NE2	1:A:250:THR:HG21	2.33	0.44
1:B:190:ALA:HB2	1:B:213:TYR:CE1	2.53	0.44
1:B:224:HIS:NE2	1:B:250:THR:HG21	2.33	0.44
1:B:385:ARG:NH1	1:B:385:ARG:HG2	2.33	0.44
1:A:151:LYS:CG	1:A:367:THR:CG2	2.95	0.44
1:C:385:ARG:HG2	1:C:385:ARG:NH1	2.33	0.44
1:A:190:ALA:HB2	1:A:213:TYR:CE1	2.53	0.43
1:C:197:VAL:HG13	1:C:198:ILE:N	2.32	0.43
1:C:364:CYS:CB	1:C:412:CYS:SG	3.06	0.43
1:C:430:ASN:H	1:C:430:ASN:HD22	1.64	0.43
1:A:385:ARG:NH1	1:A:385:ARG:HG2	2.33	0.43
1:C:400:THR:HG22	1:C:401:GLU:N	2.31	0.43
1:A:190:ALA:HB2	1:A:213:TYR:CE1	2.53	0.43
1:B:391:ILE:O	1:B:392:SER:HB2	2.18	0.43
1:B:385:ARG:NH1	1:B:385:ARG:HG2	2.33	0.43
1:B:385:ARG:NH1	1:B:385:ARG:HG2	2.33	0.43
1:B:466:ARG:NH1	1:B:470:ARG:HB2	2.32	0.43
1:C:466:ARG:NH1	1:C:470:ARG:HB2	2.32	0.43
1:C:300:PHE:CD1	1:C:360:ARG:CD	2.94	0.43
1:C:356:TRP:CZ2	1:C:360:ARG:CG	3.01	0.43
1:C:391:ILE:O	1:C:392:SER:HB2	2.18	0.43
1:C:151:LYS:O	1:C:366:MET:HE2	2.18	0.43
1:A:331:THR:CG2	1:A:332:THR:N	2.81	0.43
1:B:429:TYR:CD1	1:B:433:HIS:CD2	2.99	0.43
1:A:224:HIS:NE2	1:A:250:THR:HG21	2.33	0.43
1:A:403:PRO:HB2	1:A:406:ARG:HD3	1.98	0.43
1:B:357:VAL:CG2	1:B:409:LEU:CD2	2.94	0.43
1:B:364:CYS:CB	1:B:412:CYS:SG	3.06	0.43
1:C:190:ALA:HB2	1:C:213:TYR:CE1	2.53	0.43
1:A:190:ALA:HB2	1:A:213:TYR:CE1	2.54	0.43
1:B:190:ALA:HB2	1:B:213:TYR:CE1	2.54	0.43
1:C:190:ALA:HB2	1:C:213:TYR:CE1	2.53	0.43
1:A:190:ALA:HB2	1:A:213:TYR:CE1	2.53	0.43
1:B:331:THR:CG2	1:B:332:THR:N	2.81	0.43
1:C:224:HIS:NE2	1:C:250:THR:HG21	2.33	0.43
1:A:151:LYS:O	1:A:366:MET:HE2	2.18	0.43
1:B:213:TYR:CE2	1:B:215:ARG:HB2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:331:THR:CG2	1:B:332:THR:N	2.81	0.43
1:C:197:VAL:HG13	1:C:198:ILE:N	2.32	0.43
1:B:331:THR:CG2	1:B:332:THR:N	2.81	0.43
1:C:385:ARG:NH1	1:C:385:ARG:HG2	2.33	0.43
1:B:190:ALA:HB2	1:B:213:TYR:CE1	2.53	0.43
1:B:280:SER:HB2	1:B:287:PHE:HB3	2.00	0.43
1:A:157:TYR:HB2	1:A:284:TYR:CE1	2.52	0.43
1:B:197:VAL:HG13	1:B:198:ILE:N	2.32	0.43
1:C:331:THR:CG2	1:C:332:THR:N	2.81	0.43
1:C:357:VAL:HA	1:C:358:PRO:HD3	1.83	0.43
1:C:314:TYR:N	1:C:314:TYR:CD1	2.87	0.43
1:B:213:TYR:CE2	1:B:215:ARG:HB2	2.54	0.43
1:B:157:TYR:HB2	1:B:284:TYR:CE1	2.52	0.43
1:B:391:ILE:O	1:B:392:SER:HB2	2.18	0.43
1:C:190:ALA:HB2	1:C:213:TYR:CE1	2.53	0.43
1:A:438:GLN:HB2	1:A:439:PRO:CD	2.46	0.43
1:A:314:TYR:N	1:A:314:TYR:CD1	2.87	0.43
1:C:280:SER:HB2	1:C:287:PHE:HB3	2.00	0.43
1:C:300:PHE:CE1	1:C:363:VAL:CG2	2.98	0.43
1:A:314:TYR:CD1	1:A:314:TYR:N	2.87	0.43
1:A:157:TYR:HB2	1:A:284:TYR:CE1	2.52	0.43
1:B:197:VAL:HG13	1:B:198:ILE:N	2.32	0.43
1:C:197:VAL:HG13	1:C:198:ILE:N	2.32	0.43
1:C:213:TYR:CE2	1:C:215:ARG:HB2	2.54	0.43
1:C:331:THR:CG2	1:C:332:THR:N	2.81	0.43
1:A:300:PHE:CE1	1:A:363:VAL:CG2	2.98	0.43
1:C:197:VAL:HG13	1:C:198:ILE:N	2.32	0.43
1:A:364:CYS:CB	1:A:412:CYS:SG	3.06	0.43
1:B:391:ILE:O	1:B:392:SER:HB2	2.18	0.43
1:C:213:TYR:CE2	1:C:215:ARG:HB2	2.54	0.43
1:C:280:SER:HB2	1:C:287:PHE:HB3	2.00	0.43
1:A:223:PHE:HB2	1:A:226:ASP:HA	2.01	0.43
1:A:355:ASP:HB3	1:A:357:VAL:HG11	1.97	0.43
1:A:356:TRP:CZ2	1:A:360:ARG:CG	3.01	0.43
1:B:213:TYR:CE2	1:B:215:ARG:HB2	2.54	0.43
1:C:355:ASP:HB3	1:C:357:VAL:HG11	1.97	0.43
1:C:300:PHE:CZ	1:C:363:VAL:HG21	2.52	0.43
1:A:357:VAL:HG23	1:A:409:LEU:HD11	1.99	0.43
1:A:241:THR:CG2	1:A:242:ARG:N	2.82	0.43
1:A:314:TYR:CD1	1:A:314:TYR:N	2.87	0.43
1:B:280:SER:HB2	1:B:287:PHE:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:403:PRO:HB2	1:B:406:ARG:HD3	1.98	0.43
1:C:190:ALA:HB2	1:C:213:TYR:CE1	2.53	0.43
1:A:357:VAL:HG23	1:A:359:LYS:N	2.29	0.43
1:A:401:GLU:HB3	1:A:476:PRO:HD3	2.01	0.43
1:C:401:GLU:HB3	1:C:476:PRO:HD3	2.01	0.43
1:A:331:THR:CG2	1:A:332:THR:N	2.81	0.43
1:A:363:VAL:CB	1:A:364:CYS:CA	2.94	0.43
1:B:356:TRP:CZ2	1:B:360:ARG:CG	3.01	0.43
1:C:360:ARG:HB2	1:C:361:PRO:CD	2.49	0.43
1:C:241:THR:CG2	1:C:242:ARG:N	2.82	0.43
1:A:385:ARG:NH1	1:A:385:ARG:HG2	2.33	0.43
1:C:356:TRP:HD1	1:C:359:LYS:CE	2.32	0.43
1:C:401:GLU:HB3	1:C:476:PRO:HD3	2.01	0.43
1:B:224:HIS:HE1	1:B:268:THR:HG23	1.84	0.42
1:B:360:ARG:HB2	1:B:361:PRO:CD	2.49	0.42
1:C:385:ARG:HG2	1:C:385:ARG:NH1	2.33	0.42
1:A:401:GLU:HB3	1:A:476:PRO:HD3	2.01	0.42
1:C:223:PHE:HB2	1:C:226:ASP:HA	2.01	0.42
1:A:331:THR:CG2	1:A:332:THR:N	2.81	0.42
1:C:223:PHE:HB2	1:C:226:ASP:HA	2.01	0.42
1:C:314:TYR:CD1	1:C:314:TYR:N	2.87	0.42
1:C:151:LYS:O	1:C:366:MET:HE2	2.19	0.42
1:B:223:PHE:HB2	1:B:226:ASP:HA	2.01	0.42
1:A:331:THR:CG2	1:A:332:THR:N	2.81	0.42
1:B:151:LYS:O	1:B:366:MET:HE2	2.20	0.42
1:C:223:PHE:HB2	1:C:226:ASP:HA	2.01	0.42
1:A:360:ARG:HB2	1:A:361:PRO:CD	2.49	0.42
1:A:466:ARG:NH1	1:A:470:ARG:HB2	2.33	0.42
1:B:300:PHE:CE1	1:B:363:VAL:CG2	2.98	0.42
1:B:360:ARG:HB2	1:B:361:PRO:CD	2.49	0.42
1:B:151:LYS:O	1:B:366:MET:HE2	2.19	0.42
1:C:224:HIS:HE1	1:C:268:THR:HG23	1.84	0.42
1:A:154:ILE:CG2	1:A:155:ALA:N	2.83	0.42
1:A:224:HIS:HE1	1:A:268:THR:HG23	1.84	0.42
1:C:403:PRO:HB2	1:C:406:ARG:HD3	1.98	0.42
1:B:224:HIS:HE1	1:B:268:THR:HG23	1.84	0.42
1:B:356:TRP:CZ2	1:B:360:ARG:NH1	2.88	0.42
1:B:385:ARG:HG2	1:B:385:ARG:NH1	2.33	0.42
1:C:224:HIS:HE1	1:C:268:THR:HG23	1.84	0.42
1:A:360:ARG:HB2	1:A:361:PRO:CD	2.49	0.42
1:B:224:HIS:HE1	1:B:268:THR:HG23	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:223:PHE:HB2	1:A:226:ASP:HA	2.01	0.42
1:C:331:THR:CG2	1:C:332:THR:N	2.81	0.42
1:B:197:VAL:CG1	1:B:198:ILE:N	2.83	0.42
1:C:384:PHE:HB2	1:C:397:THR:HG23	1.99	0.42
1:B:401:GLU:HB3	1:B:476:PRO:HD3	2.01	0.42
1:B:384:PHE:HB2	1:B:397:THR:HG23	1.99	0.42
1:A:197:VAL:CG1	1:A:198:ILE:N	2.83	0.42
1:A:314:TYR:CD1	1:A:314:TYR:N	2.87	0.42
1:B:223:PHE:HB2	1:B:226:ASP:HA	2.01	0.42
1:B:222:ALA:HB1	1:B:267:THR:HG21	2.02	0.42
1:B:314:TYR:CD1	1:B:314:TYR:N	2.87	0.42
1:B:401:GLU:HB3	1:B:476:PRO:HD3	2.01	0.42
1:C:304:ARG:HD2	1:C:341:THR:HG21	2.02	0.42
1:C:360:ARG:HB2	1:C:361:PRO:CD	2.49	0.42
1:C:359:LYS:CG	1:C:409:LEU:HG	2.42	0.42
1:A:200:LYS:HA	1:A:200:LYS:HD3	1.92	0.42
1:A:401:GLU:HB3	1:A:476:PRO:HD3	2.01	0.42
1:C:304:ARG:HD2	1:C:341:THR:HG21	2.02	0.42
1:C:462:GLU:CD	1:C:462:GLU:H	2.23	0.42
1:A:224:HIS:HE1	1:A:268:THR:HG23	1.84	0.42
1:C:222:ALA:HB1	1:C:267:THR:HG21	2.02	0.42
1:C:314:TYR:N	1:C:314:TYR:CD1	2.87	0.42
1:A:224:HIS:HE1	1:A:268:THR:HG23	1.84	0.42
1:A:197:VAL:CG1	1:A:198:ILE:N	2.83	0.42
1:A:222:ALA:HB1	1:A:267:THR:HG21	2.02	0.42
1:A:465:VAL:CG2	1:A:466:ARG:N	2.82	0.42
1:C:222:ALA:HB1	1:C:267:THR:HG21	2.02	0.42
1:A:300:PHE:CZ	1:A:363:VAL:HG21	2.52	0.42
1:B:314:TYR:CD1	1:B:314:TYR:N	2.87	0.42
1:C:241:THR:CG2	1:C:242:ARG:N	2.82	0.42
1:C:300:PHE:HE1	1:C:363:VAL:CG2	2.32	0.42
1:B:197:VAL:CG1	1:B:198:ILE:N	2.83	0.42
1:C:357:VAL:HG13	1:C:358:PRO:CA	2.50	0.42
1:B:159:PHE:CZ	1:B:278:ALA:CB	3.03	0.42
1:A:159:PHE:CE2	1:A:278:ALA:CB	3.03	0.42
1:A:304:ARG:HD2	1:A:341:THR:HG21	2.02	0.42
1:C:385:ARG:HG2	1:C:385:ARG:NH1	2.33	0.42
1:B:159:PHE:CZ	1:B:278:ALA:CB	3.03	0.42
1:B:429:TYR:CD1	1:B:433:HIS:CD2	2.99	0.42
1:B:462:GLU:CD	1:B:462:GLU:H	2.23	0.42
1:C:223:PHE:HB2	1:C:226:ASP:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:159:PHE:CZ	1:C:278:ALA:CB	3.03	0.42
1:C:331:THR:CG2	1:C:332:THR:N	2.81	0.42
1:A:159:PHE:CZ	1:A:278:ALA:CB	3.03	0.42
1:A:197:VAL:CG1	1:A:198:ILE:N	2.83	0.42
1:A:159:PHE:CE2	1:A:278:ALA:CB	3.03	0.42
1:A:385:ARG:NH1	1:A:385:ARG:HG2	2.33	0.42
1:B:355:ASP:CG	1:B:357:VAL:HG12	2.40	0.42
1:B:465:VAL:CG2	1:B:466:ARG:N	2.82	0.42
1:A:363:VAL:CB	1:A:364:CYS:CA	2.95	0.42
1:B:213:TYR:CE2	1:B:215:ARG:HB2	2.54	0.42
1:C:314:TYR:N	1:C:314:TYR:CD1	2.87	0.42
1:A:157:TYR:CE2	1:A:159:PHE:HD1	2.38	0.42
1:A:159:PHE:CZ	1:A:278:ALA:CB	3.03	0.42
1:A:385:ARG:NH1	1:A:385:ARG:HG2	2.33	0.42
1:C:157:TYR:CE2	1:C:159:PHE:HD1	2.38	0.42
1:C:304:ARG:HD2	1:C:341:THR:HG21	2.02	0.42
1:B:222:ALA:HB1	1:B:267:THR:HG21	2.02	0.42
1:A:304:ARG:HD2	1:A:341:THR:HG21	2.02	0.42
1:B:155:ALA:HB1	1:B:156:PRO:HD2	2.02	0.42
1:B:223:PHE:HB2	1:B:226:ASP:HA	2.01	0.42
1:B:360:ARG:HB2	1:B:361:PRO:CD	2.49	0.42
1:B:363:VAL:CG1	1:B:411:ASP:N	2.83	0.42
1:A:465:VAL:CG2	1:A:466:ARG:N	2.82	0.42
1:B:152:GLU:CA	1:B:366:MET:HE2	2.48	0.42
1:C:151:LYS:O	1:C:366:MET:HE2	2.19	0.42
1:B:157:TYR:CE2	1:B:159:PHE:HD1	2.38	0.42
1:B:223:PHE:HB2	1:B:226:ASP:HA	2.01	0.42
1:B:222:ALA:HB1	1:B:267:THR:HG21	2.02	0.42
1:B:462:GLU:H	1:B:462:GLU:CD	2.23	0.42
1:A:222:ALA:HB1	1:A:267:THR:HG21	2.02	0.42
1:B:146:ILE:HD12	1:B:424:ILE:CD1	2.46	0.42
1:B:222:ALA:HB1	1:B:267:THR:HG21	2.02	0.42
1:B:314:TYR:N	1:B:314:TYR:CD1	2.87	0.42
1:B:357:VAL:HG13	1:B:358:PRO:CA	2.50	0.42
1:C:304:ARG:HD2	1:C:341:THR:HG21	2.02	0.42
1:C:401:GLU:HB3	1:C:476:PRO:HD3	2.01	0.42
1:C:462:GLU:H	1:C:462:GLU:CD	2.23	0.42
1:C:465:VAL:CG2	1:C:466:ARG:N	2.82	0.42
1:A:241:THR:CG2	1:A:242:ARG:N	2.82	0.42
1:A:282:TYR:CG	1:A:283:PRO:HA	2.55	0.42
1:B:462:GLU:CD	1:B:462:GLU:H	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:222:ALA:HB1	1:C:267:THR:HG21	2.02	0.42
1:C:282:TYR:CG	1:C:283:PRO:HA	2.55	0.42
1:C:197:VAL:CG1	1:C:198:ILE:N	2.83	0.42
1:A:197:VAL:CG1	1:A:198:ILE:N	2.83	0.42
1:A:403:PRO:HB2	1:A:406:ARG:HD3	1.98	0.42
1:B:363:VAL:CB	1:B:364:CYS:CA	2.94	0.42
1:C:197:VAL:CG1	1:C:198:ILE:N	2.83	0.42
1:C:282:TYR:CG	1:C:283:PRO:HA	2.55	0.42
1:C:356:TRP:CZ2	1:C:360:ARG:NH1	2.88	0.42
1:C:401:GLU:HB3	1:C:476:PRO:HD3	2.01	0.42
1:C:465:VAL:CG2	1:C:466:ARG:N	2.82	0.42
1:A:157:TYR:CE2	1:A:159:PHE:HD1	2.38	0.42
1:B:282:TYR:CG	1:B:283:PRO:HA	2.55	0.42
1:C:157:TYR:CE2	1:C:159:PHE:HD1	2.38	0.42
1:C:159:PHE:CE2	1:C:278:ALA:CB	3.03	0.42
1:C:462:GLU:H	1:C:462:GLU:CD	2.23	0.42
1:B:282:TYR:CG	1:B:283:PRO:HA	2.55	0.41
1:B:314:TYR:N	1:B:314:TYR:CD1	2.87	0.41
1:A:282:TYR:CG	1:A:283:PRO:HA	2.55	0.41
1:A:391:ILE:HG22	1:A:391:ILE:O	2.20	0.41
1:B:282:TYR:CG	1:B:283:PRO:HA	2.55	0.41
1:A:363:VAL:CG1	1:A:411:ASP:N	2.83	0.41
1:A:465:VAL:CG2	1:A:466:ARG:N	2.82	0.41
1:C:197:VAL:CG1	1:C:198:ILE:N	2.83	0.41
1:C:355:ASP:CG	1:C:357:VAL:HG12	2.40	0.41
1:B:157:TYR:CE2	1:B:159:PHE:HD1	2.38	0.41
1:B:197:VAL:CG1	1:B:198:ILE:N	2.83	0.41
1:B:282:TYR:CG	1:B:283:PRO:HA	2.55	0.41
1:A:462:GLU:H	1:A:462:GLU:CD	2.23	0.41
1:C:365:THR:CG2	1:C:366:MET:N	2.82	0.41
1:C:465:VAL:CG2	1:C:466:ARG:N	2.82	0.41
1:C:429:TYR:CE1	1:C:455:LEU:CD1	3.03	0.41
1:B:391:ILE:O	1:B:391:ILE:HG22	2.20	0.41
1:B:462:GLU:CD	1:B:462:GLU:H	2.23	0.41
1:A:213:TYR:CE2	1:A:215:ARG:HB2	2.54	0.41
1:A:159:PHE:CE2	1:A:278:ALA:CB	3.03	0.41
1:B:363:VAL:CB	1:B:364:CYS:CA	2.95	0.41
1:B:391:ILE:HG22	1:B:391:ILE:O	2.20	0.41
1:A:360:ARG:HB2	1:A:361:PRO:CD	2.49	0.41
1:C:462:GLU:H	1:C:462:GLU:CD	2.23	0.41
1:A:360:ARG:HB2	1:A:361:PRO:CD	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:PHE:HB2	1:A:397:THR:HG23	1.99	0.41
1:B:159:PHE:CE2	1:B:278:ALA:CB	3.03	0.41
1:B:157:TYR:CD1	1:B:363:VAL:HG13	2.56	0.41
1:A:282:TYR:CG	1:A:283:PRO:HA	2.55	0.41
1:A:462:GLU:H	1:A:462:GLU:CD	2.23	0.41
1:B:157:TYR:CE2	1:B:159:PHE:HD1	2.38	0.41
1:B:159:PHE:CZ	1:B:278:ALA:CB	3.03	0.41
1:C:360:ARG:HB2	1:C:361:PRO:CD	2.49	0.41
1:C:429:TYR:CE1	1:C:455:LEU:CD1	3.04	0.41
1:A:157:TYR:CE2	1:A:159:PHE:HD1	2.38	0.41
1:C:360:ARG:HB2	1:C:361:PRO:CD	2.49	0.41
1:C:429:TYR:CE1	1:C:455:LEU:CD1	3.04	0.41
1:A:213:TYR:CE2	1:A:215:ARG:HB2	2.54	0.41
1:A:159:PHE:CZ	1:A:278:ALA:CB	3.03	0.41
1:A:213:TYR:CE2	1:A:215:ARG:HB2	2.54	0.41
1:A:462:GLU:H	1:A:462:GLU:CD	2.23	0.41
1:B:218:LEU:HD23	1:B:219:GLU:H	1.83	0.41
1:B:151:LYS:O	1:B:366:MET:HE2	2.20	0.41
1:A:213:TYR:CE2	1:A:215:ARG:HB2	2.54	0.41
1:A:355:ASP:CG	1:A:357:VAL:HG12	2.40	0.41
1:A:222:ALA:HB1	1:A:267:THR:HG21	2.02	0.41
1:C:197:VAL:CG1	1:C:198:ILE:N	2.83	0.41
1:B:159:PHE:CZ	1:B:278:ALA:CB	3.03	0.41
1:B:401:GLU:HB3	1:B:476:PRO:HD3	2.01	0.41
1:B:359:LYS:CG	1:B:409:LEU:HG	2.42	0.41
1:A:179:TYR:C	1:A:179:TYR:CD2	2.94	0.41
1:A:159:PHE:CE2	1:A:278:ALA:CB	3.03	0.41
1:B:465:VAL:CG2	1:B:466:ARG:N	2.82	0.41
1:A:357:VAL:HG13	1:A:358:PRO:CA	2.50	0.41
1:C:224:HIS:HE1	1:C:268:THR:HG23	1.85	0.41
1:A:241:THR:CG2	1:A:242:ARG:N	2.82	0.41
1:A:282:TYR:CG	1:A:283:PRO:HA	2.55	0.41
1:A:365:THR:CG2	1:A:366:MET:N	2.82	0.41
1:B:304:ARG:HD2	1:B:341:THR:HG21	2.02	0.41
1:C:159:PHE:CZ	1:C:278:ALA:CB	3.03	0.41
1:A:218:LEU:HD23	1:A:219:GLU:H	1.83	0.41
1:A:157:TYR:CD1	1:A:363:VAL:HG13	2.56	0.41
1:A:401:GLU:HB3	1:A:476:PRO:HD3	2.01	0.41
1:C:399:LEU:HD12	1:C:399:LEU:N	2.36	0.41
1:C:403:PRO:HB2	1:C:406:ARG:HD3	1.98	0.41
1:A:159:PHE:CZ	1:A:278:ALA:CB	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:304:ARG:HD2	1:A:341:THR:HG21	2.02	0.41
1:A:399:LEU:HD12	1:A:399:LEU:H	1.86	0.41
1:B:304:ARG:HD2	1:B:341:THR:HG21	2.02	0.41
1:B:429:TYR:CE1	1:B:455:LEU:CD1	3.03	0.41
1:C:399:LEU:HD12	1:C:399:LEU:H	1.86	0.41
1:C:399:LEU:N	1:C:399:LEU:HD12	2.36	0.41
1:C:465:VAL:CG2	1:C:466:ARG:N	2.82	0.41
1:A:152:GLU:CA	1:A:366:MET:HE2	2.47	0.41
1:B:241:THR:CG2	1:B:242:ARG:N	2.82	0.41
1:B:357:VAL:HA	1:B:358:PRO:HD3	1.83	0.41
1:B:391:ILE:HG22	1:B:391:ILE:O	2.20	0.41
1:C:224:HIS:HE1	1:C:268:THR:HG23	1.84	0.41
1:A:224:HIS:HE1	1:A:268:THR:HG23	1.84	0.41
1:A:399:LEU:N	1:A:399:LEU:HD12	2.36	0.41
1:B:157:TYR:CE2	1:B:159:PHE:HD1	2.38	0.41
1:B:399:LEU:N	1:B:399:LEU:HD12	2.36	0.41
1:A:391:ILE:O	1:A:391:ILE:HG22	2.20	0.41
1:A:429:TYR:CE1	1:A:455:LEU:CD1	3.04	0.41
1:C:159:PHE:CZ	1:C:278:ALA:CB	3.03	0.41
1:C:360:ARG:HB2	1:C:361:PRO:HD3	2.03	0.41
1:A:179:TYR:CD2	1:A:179:TYR:C	2.94	0.41
1:B:224:HIS:HE1	1:B:268:THR:HG23	1.84	0.41
1:C:159:PHE:CZ	1:C:278:ALA:CB	3.03	0.41
1:B:159:PHE:CE2	1:B:278:ALA:CB	3.03	0.41
1:A:429:TYR:CE1	1:A:455:LEU:CD1	3.04	0.41
1:A:456:LEU:CD2	1:A:457:SER:N	2.84	0.41
1:B:179:TYR:CD2	1:B:179:TYR:C	2.94	0.41
1:B:241:THR:CG2	1:B:242:ARG:N	2.82	0.41
1:B:360:ARG:HB2	1:B:361:PRO:HD3	2.03	0.41
1:B:399:LEU:H	1:B:399:LEU:HD12	1.86	0.41
1:A:155:ALA:HB1	1:A:156:PRO:HD2	2.02	0.41
1:A:241:THR:CG2	1:A:242:ARG:N	2.82	0.41
1:B:159:PHE:CE2	1:B:278:ALA:CB	3.03	0.41
1:B:399:LEU:HD12	1:B:399:LEU:N	2.36	0.41
1:C:155:ALA:HA	1:C:156:PRO:HD3	1.88	0.41
1:B:399:LEU:HD12	1:B:399:LEU:H	1.86	0.41
1:A:391:ILE:HG22	1:A:391:ILE:O	2.20	0.41
1:B:399:LEU:HD12	1:B:399:LEU:N	2.36	0.41
1:C:364:CYS:SG	1:C:412:CYS:SG	3.19	0.41
1:A:364:CYS:SG	1:A:412:CYS:SG	3.19	0.41
1:B:429:TYR:CE1	1:B:455:LEU:CD1	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:282:TYR:CG	1:C:283:PRO:HA	2.55	0.41
1:C:456:LEU:CD2	1:C:457:SER:N	2.84	0.41
1:A:421:MET:HA	1:A:424:ILE:HG12	2.03	0.41
1:B:304:ARG:HD2	1:B:341:THR:HG21	2.02	0.41
1:B:360:ARG:HB2	1:B:361:PRO:CD	2.49	0.41
1:B:421:MET:HA	1:B:424:ILE:HG12	2.03	0.41
1:A:300:PHE:HE1	1:A:363:VAL:CG2	2.32	0.41
1:A:399:LEU:H	1:A:399:LEU:HD12	1.86	0.41
1:B:197:VAL:CG1	1:B:198:ILE:N	2.83	0.41
1:B:300:PHE:HE1	1:B:363:VAL:CG2	2.32	0.41
1:C:159:PHE:CE2	1:C:278:ALA:CB	3.03	0.41
1:C:179:TYR:C	1:C:179:TYR:CD2	2.94	0.41
1:C:213:TYR:CE2	1:C:215:ARG:HB2	2.54	0.41
1:A:456:LEU:CD2	1:A:457:SER:N	2.84	0.41
1:B:360:ARG:HB2	1:B:361:PRO:HD3	2.03	0.41
1:B:429:TYR:CE1	1:B:455:LEU:CD1	3.04	0.41
1:B:241:THR:CG2	1:B:242:ARG:N	2.82	0.41
1:B:304:ARG:HD2	1:B:341:THR:HG21	2.02	0.41
1:B:401:GLU:HB3	1:B:476:PRO:HD3	2.01	0.41
1:C:155:ALA:HB1	1:C:156:PRO:HD2	2.02	0.41
1:C:282:TYR:CG	1:C:283:PRO:HA	2.55	0.41
1:C:363:VAL:CG1	1:C:411:ASP:N	2.83	0.41
1:A:146:ILE:HD12	1:A:424:ILE:CD1	2.46	0.41
1:B:159:PHE:CE2	1:B:278:ALA:CB	3.03	0.41
1:B:399:LEU:HD12	1:B:399:LEU:N	2.36	0.41
1:C:338:ALA:HA	1:C:339:PRO:HD3	1.85	0.41
1:A:399:LEU:HD12	1:A:399:LEU:N	2.36	0.41
1:A:462:GLU:CD	1:A:462:GLU:H	2.23	0.41
1:C:391:ILE:HG22	1:C:391:ILE:O	2.20	0.41
1:A:429:TYR:CE1	1:A:455:LEU:CD1	3.04	0.41
1:C:159:PHE:CE2	1:C:278:ALA:CB	3.03	0.41
1:C:360:ARG:HB2	1:C:361:PRO:HD3	2.03	0.41
1:C:429:TYR:CE1	1:C:455:LEU:CD1	3.04	0.41
1:A:222:ALA:HB1	1:A:267:THR:HG21	2.02	0.41
1:A:304:ARG:HD2	1:A:341:THR:HG21	2.02	0.41
1:B:391:ILE:HG22	1:B:391:ILE:O	2.20	0.41
1:C:222:ALA:HB1	1:C:267:THR:HG21	2.02	0.41
1:C:157:TYR:CD1	1:C:363:VAL:HG13	2.56	0.41
1:C:399:LEU:HD12	1:C:399:LEU:N	2.36	0.41
1:A:223:PHE:HB2	1:A:226:ASP:HA	2.01	0.41
1:C:470:ARG:HH11	1:C:470:ARG:HD2	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:337:THR:CG2	1:B:338:ALA:N	2.84	0.41
1:A:223:PHE:HB2	1:A:226:ASP:HA	2.01	0.40
1:A:399:LEU:HD12	1:A:399:LEU:N	2.36	0.40
1:B:146:ILE:HD12	1:B:424:ILE:CD1	2.46	0.40
1:B:179:TYR:C	1:B:179:TYR:CD2	2.94	0.40
1:B:399:LEU:H	1:B:399:LEU:HD12	1.86	0.40
1:B:364:CYS:SG	1:B:412:CYS:SG	3.19	0.40
1:C:155:ALA:HA	1:C:156:PRO:HD3	1.91	0.40
1:B:399:LEU:HD12	1:B:399:LEU:H	1.86	0.40
1:C:159:PHE:CE2	1:C:278:ALA:CB	3.03	0.40
1:C:471:GLU:HA	1:C:474:ARG:HH11	1.87	0.40
1:A:268:THR:HG22	1:A:269:VAL:N	2.37	0.40
1:A:399:LEU:H	1:A:399:LEU:HD12	1.86	0.40
1:C:357:VAL:HG22	1:C:357:VAL:H	1.64	0.40
1:C:359:LYS:HE3	1:C:411:ASP:CG	2.41	0.40
1:B:300:PHE:CZ	1:B:363:VAL:HG21	2.52	0.40
1:B:429:TYR:CE1	1:B:455:LEU:CD1	3.04	0.40
1:C:155:ALA:HA	1:C:156:PRO:HD3	1.79	0.40
1:A:268:THR:HG22	1:A:269:VAL:N	2.37	0.40
1:A:399:LEU:N	1:A:399:LEU:HD12	2.36	0.40
1:B:456:LEU:CD2	1:B:457:SER:N	2.84	0.40
1:A:307:SER:CB	1:A:356:TRP:CH2	3.05	0.40
1:A:360:ARG:HB2	1:A:361:PRO:HD3	2.03	0.40
1:A:429:TYR:CE1	1:A:455:LEU:CD1	3.03	0.40
1:C:155:ALA:HA	1:C:156:PRO:HD3	1.74	0.40
1:C:241:THR:CG2	1:C:242:ARG:N	2.82	0.40
1:A:304:ARG:HB2	1:A:356:TRP:HZ3	1.83	0.40
1:A:359:LYS:HE3	1:A:411:ASP:CG	2.41	0.40
1:B:365:THR:HG23	1:B:366:MET:H	1.87	0.40
1:B:154:ILE:CG2	1:B:155:ALA:N	2.83	0.40
1:B:337:THR:CG2	1:B:338:ALA:N	2.84	0.40
1:B:456:LEU:CD2	1:B:457:SER:N	2.84	0.40
1:C:399:LEU:HD12	1:C:399:LEU:H	1.86	0.40
1:A:179:TYR:C	1:A:179:TYR:CD2	2.94	0.40
1:A:300:PHE:CD2	1:A:409:LEU:CD2	3.04	0.40
1:B:218:LEU:HD23	1:B:219:GLU:H	1.83	0.40
1:C:157:TYR:CE2	1:C:159:PHE:HD1	2.38	0.40
1:A:179:TYR:CD2	1:A:179:TYR:C	2.94	0.40
1:A:154:ILE:CG2	1:A:155:ALA:N	2.83	0.40
1:A:157:TYR:CE2	1:A:159:PHE:HD1	2.38	0.40
1:B:179:TYR:C	1:B:179:TYR:CD2	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:179:TYR:CD2	1:C:179:TYR:C	2.94	0.40
1:A:268:THR:HG22	1:A:269:VAL:N	2.37	0.40
1:A:151:LYS:O	1:A:366:MET:HE2	2.21	0.40
1:B:241:THR:CG2	1:B:242:ARG:N	2.82	0.40
1:C:268:THR:HG22	1:C:269:VAL:N	2.37	0.40
1:C:391:ILE:HG22	1:C:391:ILE:O	2.20	0.40
1:A:360:ARG:HB2	1:A:361:PRO:HD3	2.03	0.40
1:B:471:GLU:HA	1:B:474:ARG:HH11	1.87	0.40
1:C:157:TYR:CE2	1:C:159:PHE:HD1	2.38	0.40
1:C:151:LYS:O	1:C:366:MET:HE2	2.20	0.40
1:A:364:CYS:SG	1:A:412:CYS:SG	3.20	0.40
1:A:471:GLU:HA	1:A:474:ARG:HH11	1.87	0.40
1:C:196:GLU:OE2	1:C:208:ARG:HG2	2.22	0.40
1:B:307:SER:CB	1:B:356:TRP:CH2	3.05	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	1-A	334/904 (37%)	327 (98%)	6 (2%)	1 (0%)	46	83
1	1-B	334/904 (37%)	327 (98%)	6 (2%)	1 (0%)	46	83
1	1-C	334/904 (37%)	327 (98%)	6 (2%)	1 (0%)	46	83
1	2-A	334/904 (37%)	327 (98%)	6 (2%)	1 (0%)	46	83
1	2-B	334/904 (37%)	327 (98%)	6 (2%)	1 (0%)	46	83
1	2-C	334/904 (37%)	327 (98%)	6 (2%)	1 (0%)	46	83
1	3-A	334/904 (37%)	327 (98%)	7 (2%)	0	100	100
1	3-B	334/904 (37%)	327 (98%)	7 (2%)	0	100	100
1	3-C	334/904 (37%)	327 (98%)	7 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	4-A	334/904 (37%)	326 (98%)	7 (2%)	1 (0%)	46 83
1	4-B	334/904 (37%)	326 (98%)	7 (2%)	1 (0%)	46 83
1	4-C	334/904 (37%)	326 (98%)	7 (2%)	1 (0%)	46 83
All	All	4008/10848 (37%)	3921 (98%)	78 (2%)	9 (0%)	56 86

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	2-A	357	VAL
1	2-B	357	VAL
1	2-C	357	VAL
1	4-A	363	VAL
1	4-B	363	VAL
1	4-C	363	VAL
1	1-A	357	VAL
1	1-B	357	VAL
1	1-C	357	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	1-A	289/747 (39%)	282 (98%)	7 (2%)	57 82
1	1-B	290/747 (39%)	283 (98%)	7 (2%)	57 82
1	1-C	290/747 (39%)	283 (98%)	7 (2%)	57 82
1	2-A	289/747 (39%)	282 (98%)	7 (2%)	57 82
1	2-B	290/747 (39%)	283 (98%)	7 (2%)	57 82
1	2-C	290/747 (39%)	283 (98%)	7 (2%)	57 82
1	3-A	289/747 (39%)	283 (98%)	6 (2%)	61 84
1	3-B	290/747 (39%)	284 (98%)	6 (2%)	61 84
1	3-C	290/747 (39%)	284 (98%)	6 (2%)	61 84

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	4-A	289/747 (39%)	284 (98%)	5 (2%)	68 87
1	4-B	290/747 (39%)	285 (98%)	5 (2%)	68 87
1	4-C	290/747 (39%)	285 (98%)	5 (2%)	68 87
All	All	3476/8964 (39%)	3401 (98%)	75 (2%)	63 83

All (75) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	1-A	173	VAL
1	1-A	208	ARG
1	1-A	317	ASP
1	1-A	356	TRP
1	1-A	357	VAL
1	1-A	364	CYS
1	1-A	430	ASN
1	1-B	173	VAL
1	1-B	208	ARG
1	1-B	317	ASP
1	1-B	356	TRP
1	1-B	357	VAL
1	1-B	364	CYS
1	1-B	430	ASN
1	1-C	173	VAL
1	1-C	208	ARG
1	1-C	317	ASP
1	1-C	356	TRP
1	1-C	357	VAL
1	1-C	364	CYS
1	1-C	430	ASN
1	2-A	173	VAL
1	2-A	208	ARG
1	2-A	317	ASP
1	2-A	356	TRP
1	2-A	357	VAL
1	2-A	364	CYS
1	2-A	430	ASN
1	2-B	173	VAL
1	2-B	208	ARG
1	2-B	317	ASP
1	2-B	356	TRP
1	2-B	357	VAL

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Mol	Chain	Res	Type
1	2-B	364	CYS
1	2-B	430	ASN
1	2-C	173	VAL
1	2-C	208	ARG
1	2-C	317	ASP
1	2-C	356	TRP
1	2-C	357	VAL
1	2-C	364	CYS
1	2-C	430	ASN
1	3-A	173	VAL
1	3-A	208	ARG
1	3-A	317	ASP
1	3-A	356	TRP
1	3-A	357	VAL
1	3-A	430	ASN
1	3-B	173	VAL
1	3-B	208	ARG
1	3-B	317	ASP
1	3-B	356	TRP
1	3-B	357	VAL
1	3-B	430	ASN
1	3-C	173	VAL
1	3-C	208	ARG
1	3-C	317	ASP
1	3-C	356	TRP
1	3-C	357	VAL
1	3-C	430	ASN
1	4-A	173	VAL
1	4-A	208	ARG
1	4-A	317	ASP
1	4-A	357	VAL
1	4-A	430	ASN
1	4-B	173	VAL
1	4-B	208	ARG
1	4-B	317	ASP
1	4-B	357	VAL
1	4-B	430	ASN
1	4-C	173	VAL
1	4-C	208	ARG
1	4-C	317	ASP
1	4-C	357	VAL
1	4-C	430	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (39) such sidechains are listed below:

Mol	Chain	Res	Type
1	1-A	430	ASN
1	1-A	433	HIS
1	1-A	443	GLN
1	1-B	430	ASN
1	1-B	433	HIS
1	1-B	443	GLN
1	1-C	430	ASN
1	1-C	433	HIS
1	1-C	443	GLN
1	2-A	430	ASN
1	2-A	433	HIS
1	2-A	443	GLN
1	2-B	430	ASN
1	2-B	433	HIS
1	2-B	443	GLN
1	2-C	430	ASN
1	2-C	433	HIS
1	2-C	443	GLN
1	3-A	153	ASN
1	3-A	430	ASN
1	3-A	433	HIS
1	3-A	443	GLN
1	3-B	153	ASN
1	3-B	430	ASN
1	3-B	433	HIS
1	3-B	443	GLN
1	3-C	153	ASN
1	3-C	430	ASN
1	3-C	433	HIS
1	3-C	443	GLN
1	4-A	430	ASN
1	4-A	433	HIS
1	4-A	443	GLN
1	4-B	430	ASN
1	4-B	433	HIS
1	4-B	443	GLN
1	4-C	430	ASN
1	4-C	433	HIS
1	4-C	443	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.