



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 4, 2018 – 07:26 AM EST

PDB ID : 6EO1
Title : The electron crystallography structure of the cAMP-bound potassium channel MloK1 (PCO-refined)
Authors : Kowal, J.; Biyani, N.; Chami, M.; Scherer, S.; Rzepliela, A.; Baumgartner, P.; Upadhyay, V.; Nimigean, C.; Stahlberg, H.
Deposited on : 2017-10-08
Resolution : 4.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Xtriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20030736

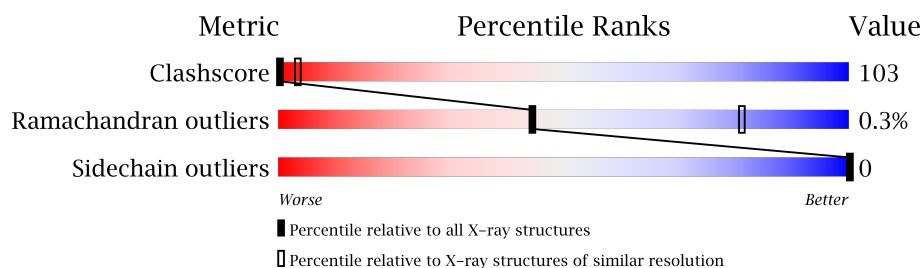
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON CRYSTALLOGRAPHY

The reported resolution of this entry is 4.50 Å.

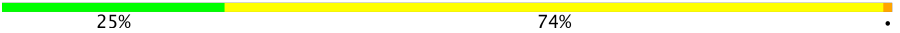
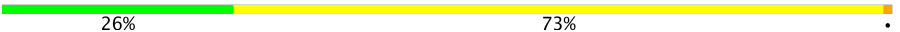
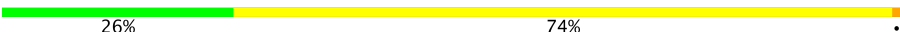
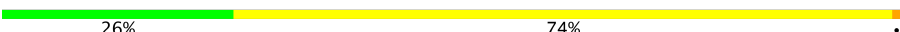
Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	112137	1029 (5.30-3.70)
Ramachandran outliers	110173	1025 (5.30-3.66)
Sidechain outliers	110143	1006 (5.30-3.66)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	355	
1	B	355	
1	C	355	
1	D	355	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 14570 atoms, of which 3924 are hydrogens and 0 are deuteriums.

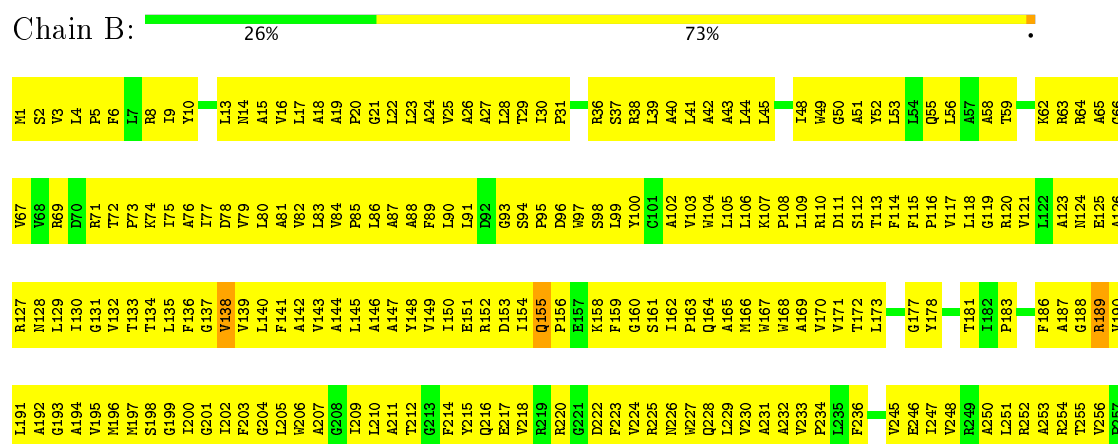
In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Cyclic nucleotide-gated potassium channel mll3241.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	355	Total	C	H	N	O	S	0	0	0
			3642	1734	981	455	461	11			
1	B	355	Total	C	H	N	O	S	0	0	0
			3642	1734	981	455	461	11			
1	C	355	Total	C	H	N	O	S	0	0	0
			3642	1734	981	455	461	11			
1	D	355	Total	C	H	N	O	S	0	0	0
			3642	1734	981	455	461	11			

- Molecule 2 is POTASSIUM ION (three-letter code: K) (formula: K).

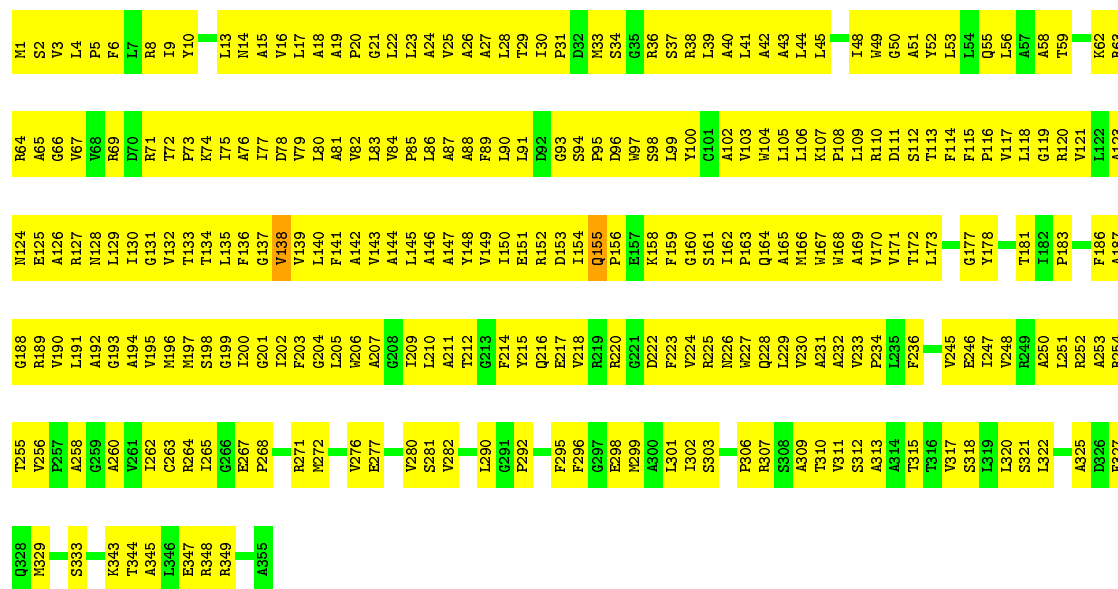
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	C	2	Total	K	0	0
			2	2		





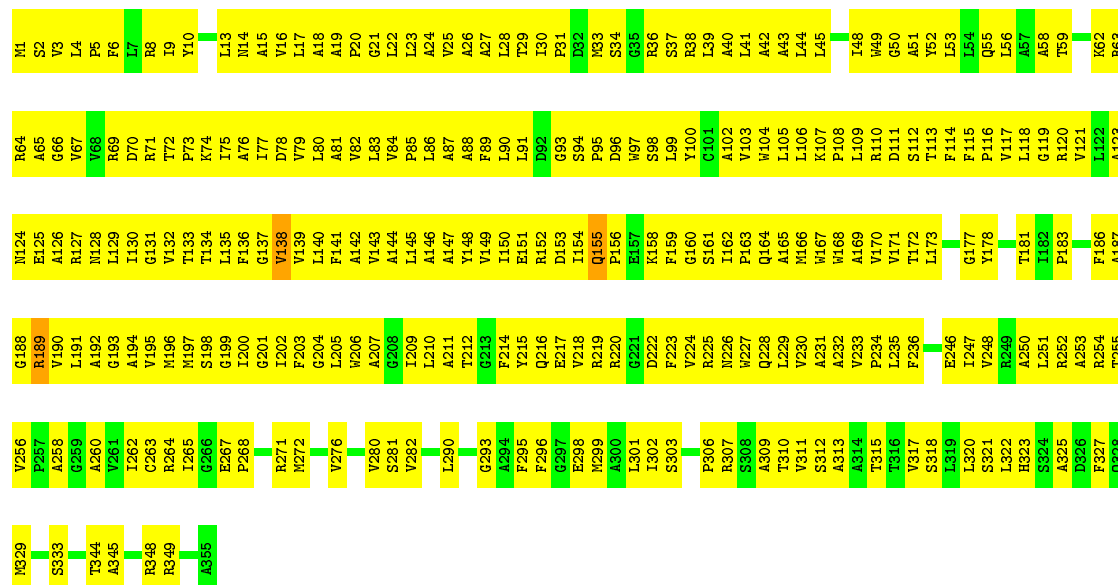
• Molecule 1: Cyclic nucleotide-gated potassium channel mll3241

Chain C: 26% 74%



• Molecule 1: Cyclic nucleotide-gated potassium channel mll3241

Chain D: 26% 74%



4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	252.45Å 252.45Å 209.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	6.00 – 4.50	Depositor
% Data completeness (in resolution range)	100.0 (6.00-4.50)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	PHENIX 1.10.1_2155:	Depositor
R, R_{free}	(Not available) , (Not available)	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	14570	wwPDB-VP
Average B, all atoms (Å ²)	98.0	wwPDB-VP

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section:
K

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.36	0/2720	0.58	0/3713
1	B	0.36	0/2720	0.58	1/3713 (0.0%)
1	C	0.36	0/2720	0.58	0/3713
1	D	0.36	0/2720	0.58	1/3713 (0.0%)
All	All	0.36	0/10880	0.58	2/14852 (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	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
All	All	0	4

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	189	ARG	NE-CZ-NH1	-5.09	117.75	120.30
1	D	189	ARG	NE-CZ-NH1	-5.06	117.77	120.30

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	155	GLN	Peptide
1	B	155	GLN	Peptide
1	C	155	GLN	Peptide
1	D	155	GLN	Peptide

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2661	981	2775	607	0
1	B	2661	981	2775	596	0
1	C	2661	981	2775	600	0
1	D	2661	981	2775	603	0
2	C	2	0	0	0	0
All	All	10646	3924	11100	2240	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 103.

All (2240) 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:206:TRP:HA	1:B:209:ILE:HD12	1.23	1.18
1:A:58:ALA:O	1:A:62:LYS:HB3	1.45	1.16
1:D:58:ALA:O	1:D:62:LYS:HB3	1.45	1.16
1:A:206:TRP:HA	1:A:209:ILE:HD12	1.23	1.16
1:D:206:TRP:HA	1:D:209:ILE:HD12	1.23	1.16
1:C:206:TRP:HA	1:C:209:ILE:HD12	1.23	1.15
1:B:58:ALA:O	1:B:62:LYS:HB3	1.45	1.13
1:A:3:VAL:HG12	1:A:5:PRO:HD3	1.24	1.12
1:B:3:VAL:HG12	1:B:5:PRO:HD3	1.24	1.12
1:C:58:ALA:O	1:C:62:LYS:HB3	1.45	1.12
1:D:3:VAL:HG12	1:D:5:PRO:HD3	1.24	1.11
1:A:202:ILE:HA	1:A:205:LEU:HD13	1.34	1.09
1:B:202:ILE:HA	1:B:205:LEU:HD13	1.35	1.08
1:C:3:VAL:HG12	1:C:5:PRO:HD3	1.24	1.08
1:C:202:ILE:HA	1:C:205:LEU:HD13	1.35	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:223:PHE:HA	1:D:226:ASN:HD22	1.17	1.07
1:B:223:PHE:HA	1:B:226:ASN:HD22	1.17	1.07
1:D:202:ILE:HA	1:D:205:LEU:HD13	1.35	1.07
1:A:223:PHE:HA	1:A:226:ASN:HD22	1.17	1.05
1:C:227:TRP:HE1	1:D:325:ALA:HB2	1.19	1.05
1:C:223:PHE:HA	1:C:226:ASN:HD22	1.17	1.04
1:A:210:LEU:HD13	1:A:214:PHE:HE2	1.21	1.03
1:A:91:LEU:HB3	1:A:97:TRP:HE3	1.24	1.03
1:D:91:LEU:HB3	1:D:97:TRP:HE3	1.24	1.02
1:D:23:LEU:HB2	1:D:41:LEU:HD22	1.42	1.01
1:C:210:LEU:HD13	1:C:214:PHE:HE2	1.21	1.01
1:B:91:LEU:HB3	1:B:97:TRP:HE3	1.24	1.01
1:C:23:LEU:HB2	1:C:41:LEU:HD22	1.42	1.01
1:A:45:LEU:HD12	1:A:48:ILE:HD11	1.41	1.01
1:B:23:LEU:HB2	1:B:41:LEU:HD22	1.42	1.00
1:A:227:TRP:HE1	1:B:325:ALA:HB2	1.26	1.00
1:C:45:LEU:HD12	1:C:48:ILE:HD11	1.41	1.00
1:C:91:LEU:HG	1:C:93:GLY:H	1.26	0.99
1:B:210:LEU:HD13	1:B:214:PHE:HE2	1.21	0.99
1:B:45:LEU:HD12	1:B:48:ILE:HD11	1.41	0.99
1:A:23:LEU:HB2	1:A:41:LEU:HD22	1.42	0.99
1:D:210:LEU:HD13	1:D:214:PHE:HE2	1.21	0.99
1:C:91:LEU:HB3	1:C:97:TRP:HE3	1.24	0.99
1:D:45:LEU:HD12	1:D:48:ILE:HD11	1.41	0.98
1:B:91:LEU:HG	1:B:93:GLY:H	1.26	0.97
1:A:91:LEU:HG	1:A:93:GLY:H	1.26	0.97
1:D:91:LEU:HG	1:D:93:GLY:H	1.26	0.97
1:B:177:GLY:O	1:C:178:TYR:HB3	1.65	0.96
1:B:227:TRP:HE1	1:C:325:ALA:HB2	1.31	0.96
1:D:154:ILE:O	1:D:159:PHE:HB2	1.65	0.96
1:C:227:TRP:NE1	1:D:325:ALA:HB2	1.80	0.96
1:C:154:ILE:O	1:C:159:PHE:HB2	1.64	0.95
1:A:154:ILE:O	1:A:159:PHE:HB2	1.64	0.95
1:B:154:ILE:O	1:B:159:PHE:HB2	1.64	0.95
1:A:325:ALA:HB2	1:D:227:TRP:HE1	1.31	0.95
1:A:133:THR:HA	1:A:136:PHE:HD2	1.32	0.94
1:B:133:THR:HA	1:B:136:PHE:HD2	1.32	0.94
1:C:133:THR:HA	1:C:136:PHE:HD2	1.32	0.94
1:D:133:THR:HA	1:D:136:PHE:HD2	1.32	0.93
1:B:151:GLU:OE2	1:B:159:PHE:HA	1.68	0.93
1:C:151:GLU:OE2	1:C:159:PHE:HA	1.69	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:29:THR:HG23	1:C:31:PRO:HD3	1.50	0.93
1:D:151:GLU:OE2	1:D:159:PHE:HA	1.68	0.93
1:A:151:GLU:OE2	1:A:159:PHE:HA	1.68	0.92
1:D:29:THR:HG23	1:D:31:PRO:HD3	1.50	0.92
1:C:299:MET:O	1:C:303:SER:OG	1.87	0.92
1:B:154:ILE:HG13	1:B:156:PRO:HD2	1.51	0.92
1:A:197:MET:HA	1:A:200:ILE:HD11	1.52	0.92
1:A:29:THR:HG23	1:A:31:PRO:HD3	1.50	0.92
1:B:71:ARG:O	1:B:74:LYS:NZ	2.03	0.91
1:D:299:MET:O	1:D:303:SER:OG	1.87	0.91
1:A:206:TRP:CZ3	1:A:210:LEU:HD23	2.05	0.91
1:C:71:ARG:O	1:C:74:LYS:NZ	2.03	0.91
1:A:188:GLY:HA2	1:A:191:LEU:HD21	1.52	0.91
1:B:206:TRP:CZ3	1:B:210:LEU:HD23	2.05	0.91
1:B:29:THR:HG23	1:B:31:PRO:HD3	1.50	0.91
1:B:164:GLN:HA	1:B:167:TRP:NE1	1.86	0.91
1:C:154:ILE:HG13	1:C:156:PRO:HD2	1.51	0.91
1:D:164:GLN:HA	1:D:167:TRP:NE1	1.86	0.91
1:A:154:ILE:HG13	1:A:156:PRO:HD2	1.51	0.91
1:D:71:ARG:O	1:D:74:LYS:NZ	2.03	0.91
1:B:188:GLY:HA2	1:B:191:LEU:HD21	1.52	0.91
1:B:299:MET:O	1:B:303:SER:OG	1.87	0.91
1:C:164:GLN:HA	1:C:167:TRP:NE1	1.86	0.91
1:D:154:ILE:HG13	1:D:156:PRO:HD2	1.51	0.90
1:B:220:ARG:HA	1:B:223:PHE:CZ	2.06	0.90
1:D:152:ARG:HA	1:D:160:GLY:HA2	1.52	0.90
1:D:197:MET:HA	1:D:200:ILE:HD11	1.52	0.90
1:A:299:MET:O	1:A:303:SER:OG	1.87	0.90
1:C:188:GLY:HA2	1:C:191:LEU:HD21	1.52	0.90
1:C:162:ILE:HD11	1:C:166:MET:HE2	1.53	0.90
1:A:71:ARG:O	1:A:74:LYS:NZ	2.03	0.90
1:C:206:TRP:CZ3	1:C:210:LEU:HD23	2.05	0.90
1:C:220:ARG:HA	1:C:223:PHE:CZ	2.06	0.90
1:A:164:GLN:HA	1:A:167:TRP:NE1	1.86	0.89
1:D:162:ILE:HD11	1:D:166:MET:HE2	1.54	0.89
1:D:220:ARG:HA	1:D:223:PHE:CZ	2.06	0.89
1:A:152:ARG:HA	1:A:160:GLY:HA2	1.52	0.89
1:B:197:MET:HA	1:B:200:ILE:HD11	1.52	0.89
1:D:206:TRP:CZ3	1:D:210:LEU:HD23	2.06	0.89
1:C:197:MET:HA	1:C:200:ILE:HD11	1.52	0.89
1:A:91:LEU:HB3	1:A:97:TRP:CE3	2.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:177:GLY:O	1:B:178:TYR:HB3	1.73	0.89
1:A:220:ARG:HA	1:A:223:PHE:CZ	2.06	0.89
1:B:58:ALA:O	1:B:62:LYS:CB	2.20	0.89
1:D:58:ALA:O	1:D:62:LYS:CB	2.20	0.89
1:A:58:ALA:O	1:A:62:LYS:CB	2.20	0.89
1:B:107:LYS:O	1:B:110:ARG:HG2	1.73	0.89
1:C:58:ALA:O	1:C:62:LYS:CB	2.20	0.88
1:A:107:LYS:O	1:A:110:ARG:HG2	1.74	0.88
1:C:107:LYS:O	1:C:110:ARG:HG2	1.74	0.88
1:D:91:LEU:HB3	1:D:97:TRP:CE3	2.08	0.88
1:A:112:SER:HB2	1:A:114:PHE:CD2	2.09	0.88
1:B:91:LEU:HB3	1:B:97:TRP:CE3	2.08	0.88
1:C:152:ARG:HA	1:C:160:GLY:HA2	1.52	0.88
1:B:112:SER:HB2	1:B:114:PHE:CD2	2.09	0.88
1:D:188:GLY:HA2	1:D:191:LEU:HD21	1.52	0.88
1:B:152:ARG:HA	1:B:160:GLY:HA2	1.52	0.88
1:B:189:ARG:HD2	1:C:170:VAL:HG11	1.55	0.88
1:C:112:SER:HB2	1:C:114:PHE:CD2	2.09	0.87
1:A:170:VAL:HG11	1:D:189:ARG:HD2	1.56	0.87
1:B:59:THR:O	1:B:63:ARG:N	2.08	0.87
1:C:36:ARG:O	1:C:39:LEU:HG	1.75	0.87
1:C:91:LEU:HB3	1:C:97:TRP:CE3	2.08	0.87
1:D:36:ARG:O	1:D:39:LEU:HG	1.75	0.87
1:D:107:LYS:O	1:D:110:ARG:HG2	1.74	0.87
1:A:36:ARG:O	1:A:39:LEU:HG	1.75	0.87
1:C:220:ARG:HD3	1:D:1:MET:CE	2.04	0.87
1:C:59:THR:O	1:C:63:ARG:N	2.08	0.87
1:D:112:SER:HB2	1:D:114:PHE:CD2	2.09	0.87
1:A:205:LEU:HA	1:B:214:PHE:HZ	1.40	0.87
1:B:36:ARG:O	1:B:39:LEU:HG	1.75	0.87
1:C:177:GLY:O	1:D:178:TYR:HB3	1.75	0.87
1:A:162:ILE:HD11	1:A:166:MET:HE2	1.54	0.86
1:A:59:THR:O	1:A:63:ARG:N	2.08	0.86
1:C:225:ARG:O	1:C:229:LEU:HG	1.75	0.86
1:A:325:ALA:HB2	1:D:227:TRP:NE1	1.90	0.86
1:B:162:ILE:HD11	1:B:166:MET:HE2	1.57	0.86
1:C:189:ARG:HD2	1:D:170:VAL:HG11	1.56	0.86
1:D:225:ARG:O	1:D:229:LEU:HG	1.75	0.86
1:D:59:THR:O	1:D:63:ARG:N	2.08	0.86
1:A:225:ARG:O	1:A:229:LEU:HG	1.75	0.86
1:C:189:ARG:HH12	1:D:167:TRP:CB	1.89	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:193:GLY:HA2	1:D:196:MET:CE	2.07	0.85
1:B:193:GLY:HA2	1:B:196:MET:CE	2.07	0.85
1:B:19:ALA:O	1:B:22:LEU:HG	1.76	0.85
1:C:193:GLY:HA2	1:C:196:MET:CE	2.07	0.85
1:D:19:ALA:O	1:D:22:LEU:HG	1.76	0.85
1:A:133:THR:HA	1:A:136:PHE:CD2	2.12	0.85
1:B:133:THR:HA	1:B:136:PHE:CD2	2.11	0.85
1:C:133:THR:HA	1:C:136:PHE:CD2	2.11	0.85
1:D:133:THR:HA	1:D:136:PHE:CD2	2.11	0.85
1:D:3:VAL:HA	1:D:253:ALA:HA	1.58	0.85
1:B:225:ARG:O	1:B:229:LEU:HG	1.75	0.85
1:B:3:VAL:HA	1:B:253:ALA:HA	1.58	0.85
1:B:56:LEU:O	1:B:59:THR:OG1	1.95	0.85
1:C:200:ILE:HA	1:C:203:PHE:HD2	1.42	0.85
1:A:193:GLY:HA2	1:A:196:MET:CE	2.07	0.84
1:C:3:VAL:HA	1:C:253:ALA:HA	1.58	0.84
1:C:56:LEU:O	1:C:59:THR:OG1	1.95	0.84
1:D:85:PRO:HA	1:D:88:ALA:HB3	1.59	0.84
1:A:214:PHE:HZ	1:D:205:LEU:HA	1.42	0.84
1:D:200:ILE:HA	1:D:203:PHE:HD2	1.42	0.84
1:A:3:VAL:HA	1:A:253:ALA:HA	1.58	0.84
1:A:85:PRO:HA	1:A:88:ALA:HB3	1.59	0.84
1:A:19:ALA:O	1:A:22:LEU:HG	1.76	0.84
1:A:56:LEU:O	1:A:59:THR:OG1	1.95	0.84
1:D:56:LEU:O	1:D:59:THR:OG1	1.95	0.84
1:A:227:TRP:NE1	1:B:325:ALA:HB2	1.92	0.83
1:C:19:ALA:O	1:C:22:LEU:HG	1.76	0.83
1:A:200:ILE:HA	1:A:203:PHE:HD2	1.42	0.83
1:B:151:GLU:O	1:B:160:GLY:N	2.11	0.83
1:A:151:GLU:O	1:A:160:GLY:N	2.11	0.83
1:B:37:SER:O	1:B:41:LEU:N	2.12	0.83
1:A:1:MET:CE	1:D:220:ARG:HD3	2.08	0.83
1:D:37:SER:O	1:D:41:LEU:N	2.11	0.83
1:A:120:ARG:HA	1:A:123:ALA:HB3	1.60	0.83
1:C:120:ARG:HA	1:C:123:ALA:HB3	1.60	0.83
1:D:140:LEU:HD12	1:D:141:PHE:N	1.94	0.83
1:C:140:LEU:HD12	1:C:141:PHE:N	1.94	0.83
1:B:200:ILE:HA	1:B:203:PHE:HD2	1.42	0.83
1:B:205:LEU:HA	1:C:214:PHE:HZ	1.43	0.83
1:D:120:ARG:HA	1:D:123:ALA:HB3	1.60	0.83
1:A:158:LYS:O	1:A:164:GLN:NE2	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:145:LEU:HD12	1:C:146:ALA:N	1.95	0.82
1:D:158:LYS:O	1:D:164:GLN:NE2	2.12	0.82
1:B:85:PRO:HA	1:B:88:ALA:HB3	1.59	0.82
1:C:120:ARG:HD3	1:C:123:ALA:HB3	1.61	0.82
1:C:8:ARG:NH1	1:C:258:ALA:O	2.12	0.82
1:C:37:SER:O	1:C:41:LEU:N	2.11	0.82
1:C:85:PRO:HA	1:C:88:ALA:HB3	1.59	0.82
1:A:178:TYR:HB3	1:D:177:GLY:O	1.77	0.82
1:A:140:LEU:HD12	1:A:141:PHE:N	1.94	0.82
1:B:145:LEU:HA	1:B:148:TYR:CD2	2.15	0.82
1:B:158:LYS:O	1:B:164:GLN:NE2	2.12	0.82
1:C:151:GLU:O	1:C:160:GLY:N	2.11	0.82
1:A:120:ARG:HD3	1:A:123:ALA:HB3	1.61	0.82
1:C:158:LYS:O	1:C:164:GLN:NE2	2.12	0.82
1:D:145:LEU:HA	1:D:148:TYR:CD2	2.15	0.82
1:D:8:ARG:NH1	1:D:258:ALA:O	2.12	0.82
1:B:8:ARG:NH1	1:B:258:ALA:O	2.13	0.82
1:D:151:GLU:O	1:D:160:GLY:N	2.11	0.82
1:A:8:ARG:NH1	1:A:258:ALA:O	2.12	0.82
1:A:37:SER:O	1:A:41:LEU:N	2.11	0.82
1:B:120:ARG:HA	1:B:123:ALA:HB3	1.60	0.82
1:D:120:ARG:HD3	1:D:123:ALA:HB3	1.61	0.82
1:A:104:TRP:O	1:A:107:LYS:HG3	1.80	0.81
1:D:104:TRP:O	1:D:107:LYS:HG3	1.80	0.81
1:B:140:LEU:HD12	1:B:141:PHE:N	1.94	0.81
1:B:145:LEU:HD12	1:B:146:ALA:N	1.95	0.81
1:B:193:GLY:HA2	1:B:196:MET:HE3	1.61	0.81
1:B:227:TRP:NE1	1:C:325:ALA:HB2	1.94	0.81
1:A:145:LEU:HA	1:A:148:TYR:CD2	2.14	0.81
1:A:145:LEU:HD12	1:A:146:ALA:N	1.95	0.81
1:B:120:ARG:HD3	1:B:123:ALA:HB3	1.61	0.81
1:C:145:LEU:HA	1:C:148:TYR:CD2	2.15	0.81
1:C:193:GLY:HA2	1:C:196:MET:HE3	1.60	0.81
1:A:206:TRP:HA	1:A:209:ILE:CD1	2.10	0.81
1:C:104:TRP:O	1:C:107:LYS:HG3	1.80	0.81
1:D:117:VAL:O	1:D:121:VAL:HG23	1.81	0.81
1:A:197:MET:HA	1:A:200:ILE:CD1	2.11	0.80
1:B:104:TRP:O	1:B:107:LYS:HG3	1.80	0.80
1:B:220:ARG:HD3	1:C:1:MET:CE	2.11	0.80
1:D:145:LEU:HD12	1:D:146:ALA:N	1.95	0.80
1:A:137:GLY:O	1:A:140:LEU:HG	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:210:LEU:HD13	1:C:214:PHE:CE2	2.14	0.80
1:D:80:LEU:HD12	1:D:81:ALA:N	1.97	0.80
1:B:19:ALA:HA	1:B:22:LEU:HG	1.63	0.80
1:D:83:LEU:HA	1:D:86:LEU:HD12	1.64	0.80
1:A:19:ALA:HA	1:A:22:LEU:HG	1.63	0.80
1:C:117:VAL:O	1:C:121:VAL:HG23	1.81	0.80
1:A:19:ALA:HA	1:A:22:LEU:CD2	2.12	0.80
1:D:197:MET:HA	1:D:200:ILE:CD1	2.11	0.80
1:A:80:LEU:HD12	1:A:81:ALA:N	1.97	0.80
1:B:117:VAL:O	1:B:121:VAL:HG23	1.82	0.80
1:D:137:GLY:O	1:D:140:LEU:HG	1.82	0.80
1:A:104:TRP:HB3	1:A:107:LYS:HD2	1.64	0.80
1:A:147:ALA:HA	1:A:150:ILE:CG1	2.12	0.80
1:A:220:ARG:HD3	1:B:1:MET:CE	2.10	0.80
1:A:83:LEU:HA	1:A:86:LEU:HD12	1.63	0.80
1:C:197:MET:HA	1:C:200:ILE:CD1	2.11	0.80
1:B:19:ALA:HA	1:B:22:LEU:CD2	2.12	0.80
1:C:19:ALA:HA	1:C:22:LEU:CD2	2.12	0.80
1:D:19:ALA:HA	1:D:22:LEU:CD2	2.12	0.80
1:D:82:VAL:O	1:D:86:LEU:HG	1.82	0.80
1:D:19:ALA:HA	1:D:22:LEU:HG	1.63	0.80
1:B:131:GLY:O	1:B:135:LEU:HG	1.82	0.79
1:C:19:ALA:HA	1:C:22:LEU:HG	1.63	0.79
1:A:87:ALA:HA	1:A:90:LEU:HD13	1.64	0.79
1:B:137:GLY:O	1:B:140:LEU:HG	1.82	0.79
1:C:137:GLY:O	1:C:140:LEU:HG	1.82	0.79
1:C:82:VAL:O	1:C:86:LEU:HG	1.82	0.79
1:C:83:LEU:HA	1:C:86:LEU:HD12	1.64	0.79
1:A:117:VAL:O	1:A:121:VAL:HG23	1.81	0.79
1:A:131:GLY:O	1:A:135:LEU:HG	1.82	0.79
1:A:82:VAL:O	1:A:86:LEU:HG	1.81	0.79
1:B:147:ALA:HA	1:B:150:ILE:CG1	2.12	0.79
1:B:197:MET:HA	1:B:200:ILE:CD1	2.11	0.79
1:B:210:LEU:HD13	1:B:214:PHE:CE2	2.14	0.79
1:C:205:LEU:HA	1:D:214:PHE:HZ	1.48	0.79
1:C:129:LEU:O	1:C:133:THR:OG1	2.01	0.79
1:C:80:LEU:HD12	1:C:81:ALA:N	1.97	0.79
1:D:87:ALA:HA	1:D:90:LEU:HD13	1.64	0.79
1:B:14:ASN:O	1:B:18:ALA:HB3	1.82	0.79
1:C:104:TRP:O	1:C:107:LYS:N	2.15	0.79
1:C:14:ASN:O	1:C:18:ALA:HB3	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:131:GLY:O	1:D:135:LEU:HG	1.82	0.79
1:C:23:LEU:CB	1:C:41:LEU:HD22	2.12	0.79
1:D:129:LEU:O	1:D:133:THR:OG1	2.01	0.79
1:D:14:ASN:O	1:D:18:ALA:HB3	1.82	0.79
1:A:167:TRP:CB	1:D:189:ARG:HH12	1.96	0.79
1:B:104:TRP:O	1:B:107:LYS:N	2.15	0.79
1:C:131:GLY:O	1:C:135:LEU:HG	1.82	0.79
1:D:23:LEU:CB	1:D:41:LEU:HD22	2.12	0.79
1:A:14:ASN:O	1:A:18:ALA:HB3	1.82	0.78
1:A:23:LEU:CB	1:A:41:LEU:HD22	2.12	0.78
1:B:80:LEU:HD12	1:B:81:ALA:N	1.97	0.78
1:B:104:TRP:HB3	1:B:107:LYS:HD2	1.64	0.78
1:B:112:SER:HB2	1:B:114:PHE:HD2	1.48	0.78
1:C:104:TRP:HB3	1:C:107:LYS:HD2	1.64	0.78
1:C:112:SER:HB2	1:C:114:PHE:HD2	1.48	0.78
1:C:189:ARG:HH12	1:D:167:TRP:HB3	1.47	0.78
1:B:22:LEU:HD12	1:B:23:LEU:N	1.99	0.78
1:B:23:LEU:CB	1:B:41:LEU:HD22	2.12	0.78
1:B:82:VAL:O	1:B:86:LEU:HG	1.81	0.78
1:D:147:ALA:HA	1:D:150:ILE:CG1	2.12	0.78
1:D:22:LEU:HD12	1:D:23:LEU:N	1.99	0.78
1:C:107:LYS:HZ1	1:C:110:ARG:HH22	1.32	0.78
1:D:206:TRP:HA	1:D:209:ILE:CD1	2.11	0.78
1:B:87:ALA:HA	1:B:90:LEU:HD13	1.64	0.78
1:C:87:ALA:HA	1:C:90:LEU:HD13	1.64	0.78
1:D:196:MET:O	1:D:200:ILE:HG12	1.84	0.78
1:C:147:ALA:HA	1:C:150:ILE:CG1	2.12	0.78
1:B:83:LEU:HA	1:B:86:LEU:HD12	1.64	0.78
1:B:129:LEU:O	1:B:133:THR:OG1	2.01	0.78
1:C:22:LEU:HD12	1:C:23:LEU:N	1.99	0.78
1:D:87:ALA:HA	1:D:90:LEU:HB2	1.66	0.78
1:A:86:LEU:O	1:A:89:PHE:N	2.17	0.77
1:D:104:TRP:HB3	1:D:107:LYS:HD2	1.64	0.77
1:D:86:LEU:O	1:D:89:PHE:N	2.17	0.77
1:A:22:LEU:HD12	1:A:23:LEU:N	1.99	0.77
1:D:107:LYS:HZ1	1:D:110:ARG:HH22	1.33	0.77
1:A:196:MET:O	1:A:200:ILE:HG12	1.84	0.77
1:A:87:ALA:HA	1:A:90:LEU:HB2	1.66	0.77
1:B:86:LEU:O	1:B:89:PHE:N	2.17	0.77
1:C:196:MET:O	1:C:200:ILE:HG12	1.84	0.77
1:B:196:MET:O	1:B:200:ILE:HG12	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:142:ALA:O	1:C:145:LEU:HG	1.85	0.77
1:A:162:ILE:HG22	1:A:163:PRO:HD3	1.67	0.77
1:B:162:ILE:HG22	1:B:163:PRO:HD3	1.67	0.77
1:B:37:SER:HB2	1:B:41:LEU:CD1	2.15	0.77
1:C:37:SER:HB2	1:C:41:LEU:CD1	2.15	0.77
1:C:86:LEU:O	1:C:89:PHE:N	2.17	0.77
1:C:206:TRP:HA	1:C:209:ILE:CD1	2.11	0.76
1:D:142:ALA:O	1:D:145:LEU:HG	1.85	0.76
1:A:129:LEU:O	1:A:133:THR:OG1	2.01	0.76
1:A:142:ALA:O	1:A:145:LEU:HG	1.85	0.76
1:A:189:ARG:HD2	1:B:170:VAL:HG11	1.66	0.76
1:B:164:GLN:HA	1:B:167:TRP:CD1	2.20	0.76
1:C:72:THR:HB	1:C:73:PRO:HD3	1.68	0.76
1:B:73:PRO:O	1:B:77:ILE:HG12	1.86	0.76
1:C:162:ILE:HG22	1:C:163:PRO:HD3	1.67	0.76
1:A:104:TRP:O	1:A:107:LYS:N	2.15	0.76
1:C:164:GLN:HA	1:C:167:TRP:CD1	2.20	0.76
1:D:162:ILE:HG22	1:D:163:PRO:HD3	1.67	0.76
1:A:72:THR:HB	1:A:73:PRO:HD3	1.68	0.76
1:A:73:PRO:O	1:A:77:ILE:HG12	1.86	0.76
1:B:142:ALA:O	1:B:145:LEU:HG	1.85	0.76
1:D:193:GLY:HA2	1:D:196:MET:HE3	1.66	0.76
1:D:25:VAL:HA	1:D:28:LEU:HB2	1.68	0.76
1:D:72:THR:HB	1:D:73:PRO:HD3	1.68	0.76
1:A:164:GLN:HA	1:A:167:TRP:CD1	2.20	0.76
1:B:152:ARG:HH22	1:B:162:ILE:HA	1.51	0.76
1:C:73:PRO:O	1:C:77:ILE:HG12	1.86	0.76
1:B:72:THR:HB	1:B:73:PRO:HD3	1.68	0.76
1:D:164:GLN:HA	1:D:167:TRP:CD1	2.20	0.76
1:A:116:PRO:HB2	1:A:217:GLU:OE2	1.86	0.75
1:A:116:PRO:O	1:A:119:GLY:N	2.20	0.75
1:A:37:SER:HB2	1:A:41:LEU:CD1	2.15	0.75
1:B:114:PHE:O	1:B:118:LEU:HD13	1.87	0.75
1:B:25:VAL:HA	1:B:28:LEU:HB2	1.68	0.75
1:C:87:ALA:HA	1:C:90:LEU:HB2	1.66	0.75
1:A:114:PHE:O	1:A:118:LEU:HD13	1.87	0.75
1:B:116:PRO:O	1:B:119:GLY:N	2.20	0.75
1:B:87:ALA:HA	1:B:90:LEU:HB2	1.66	0.75
1:C:152:ARG:HH22	1:C:162:ILE:HA	1.51	0.75
1:D:104:TRP:O	1:D:107:LYS:N	2.15	0.75
1:D:23:LEU:HD13	1:D:41:LEU:HB3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:147:ALA:HA	1:B:150:ILE:HG12	1.67	0.75
1:B:206:TRP:HA	1:B:209:ILE:CD1	2.10	0.75
1:B:76:ALA:HA	1:B:79:VAL:HG12	1.69	0.75
1:C:114:PHE:O	1:C:118:LEU:HD13	1.87	0.75
1:C:23:LEU:HD13	1:C:41:LEU:HB3	1.68	0.75
1:D:114:PHE:O	1:D:118:LEU:HD13	1.87	0.75
1:D:37:SER:HB2	1:D:41:LEU:CD1	2.15	0.75
1:A:193:GLY:HA2	1:A:196:MET:HE3	1.67	0.75
1:A:25:VAL:HA	1:A:28:LEU:HB2	1.68	0.75
1:A:96:ASP:HA	1:A:99:LEU:HG	1.69	0.75
1:B:96:ASP:HA	1:B:99:LEU:HG	1.69	0.75
1:D:76:ALA:HA	1:D:79:VAL:HG12	1.69	0.75
1:A:76:ALA:HA	1:A:79:VAL:HG12	1.69	0.75
1:C:116:PRO:HB2	1:C:217:GLU:OE2	1.87	0.75
1:C:116:PRO:O	1:C:119:GLY:N	2.20	0.75
1:B:116:PRO:HB2	1:B:217:GLU:OE2	1.86	0.75
1:C:76:ALA:HA	1:C:79:VAL:HG12	1.68	0.75
1:B:167:TRP:O	1:B:170:VAL:HG12	1.87	0.75
1:B:189:ARG:HH12	1:C:167:TRP:CB	2.00	0.75
1:C:25:VAL:HA	1:C:28:LEU:HB2	1.68	0.75
1:D:147:ALA:HA	1:D:150:ILE:HG12	1.67	0.75
1:A:112:SER:HB2	1:A:114:PHE:HD2	1.48	0.75
1:B:49:TRP:CE2	1:B:53:LEU:HD11	2.22	0.75
1:D:210:LEU:HD13	1:D:214:PHE:CE2	2.14	0.75
1:C:49:TRP:CE2	1:C:53:LEU:HD11	2.22	0.74
1:D:116:PRO:HB2	1:D:217:GLU:OE2	1.87	0.74
1:A:152:ARG:HH22	1:A:162:ILE:HA	1.51	0.74
1:A:210:LEU:HD13	1:A:214:PHE:CE2	2.14	0.74
1:A:49:TRP:CE2	1:A:53:LEU:HD11	2.22	0.74
1:C:147:ALA:HA	1:C:150:ILE:HG12	1.67	0.74
1:D:73:PRO:O	1:D:77:ILE:HG12	1.86	0.74
1:A:147:ALA:HA	1:A:150:ILE:HG12	1.67	0.74
1:C:206:TRP:O	1:C:209:ILE:HB	1.87	0.74
1:D:118:LEU:HA	1:D:121:VAL:CG2	2.17	0.74
1:D:206:TRP:O	1:D:209:ILE:HB	1.87	0.74
1:D:152:ARG:HH22	1:D:162:ILE:HA	1.51	0.74
1:D:167:TRP:O	1:D:170:VAL:HG12	1.87	0.74
1:B:210:LEU:HD12	1:B:211:ALA:N	2.02	0.74
1:A:118:LEU:HA	1:A:121:VAL:CG2	2.17	0.74
1:A:167:TRP:O	1:A:170:VAL:HG12	1.87	0.74
1:C:210:LEU:HD12	1:C:211:ALA:N	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:125:GLU:OE1	1:A:126:ALA:N	2.21	0.74
1:B:135:LEU:HA	1:B:138:VAL:HG23	1.70	0.74
1:C:167:TRP:O	1:C:170:VAL:HG12	1.87	0.74
1:A:202:ILE:CA	1:A:205:LEU:HD13	2.17	0.74
1:B:23:LEU:HD13	1:B:41:LEU:HB3	1.68	0.74
1:D:210:LEU:HD12	1:D:211:ALA:N	2.02	0.74
1:A:5:PRO:HB2	1:D:127:ARG:HH22	1.53	0.74
1:B:118:LEU:HA	1:B:121:VAL:CG2	2.17	0.74
1:B:206:TRP:O	1:B:209:ILE:HB	1.87	0.74
1:B:19:ALA:HA	1:B:22:LEU:CG	2.17	0.74
1:B:52:TYR:HA	1:B:55:GLN:CD	2.08	0.74
1:D:19:ALA:HA	1:D:22:LEU:CG	2.17	0.74
1:A:206:TRP:O	1:A:209:ILE:HB	1.87	0.74
1:C:19:ALA:HA	1:C:22:LEU:CG	2.17	0.74
1:D:116:PRO:O	1:D:119:GLY:N	2.20	0.74
1:A:19:ALA:HA	1:A:22:LEU:CG	2.17	0.73
1:C:52:TYR:HA	1:C:55:GLN:CD	2.08	0.73
1:C:96:ASP:HA	1:C:99:LEU:HG	1.69	0.73
1:D:135:LEU:HA	1:D:138:VAL:HG23	1.70	0.73
1:C:118:LEU:HA	1:C:121:VAL:CG2	2.17	0.73
1:A:23:LEU:HD13	1:A:41:LEU:HB3	1.68	0.73
1:B:42:ALA:O	1:B:45:LEU:HB3	1.88	0.73
1:C:135:LEU:HA	1:C:138:VAL:HG23	1.70	0.73
1:C:204:GLY:O	1:C:207:ALA:HB3	1.88	0.73
1:A:135:LEU:HA	1:A:138:VAL:HG23	1.70	0.73
1:A:84:VAL:HG23	1:A:85:PRO:HD3	1.70	0.73
1:B:107:LYS:HZ1	1:B:110:ARG:HH22	1.35	0.73
1:D:112:SER:HB2	1:D:114:PHE:HD2	1.48	0.73
1:D:84:VAL:HG23	1:D:85:PRO:HD3	1.70	0.73
1:A:214:PHE:CZ	1:D:205:LEU:HA	2.22	0.73
1:B:202:ILE:CA	1:B:205:LEU:HD13	2.17	0.73
1:C:91:LEU:H	1:C:97:TRP:HZ3	1.37	0.73
1:B:204:GLY:O	1:B:207:ALA:HB3	1.88	0.73
1:C:155:GLN:OE1	1:C:155:GLN:N	2.16	0.73
1:A:204:GLY:O	1:A:207:ALA:HB3	1.88	0.73
1:D:96:ASP:HA	1:D:99:LEU:HG	1.69	0.73
1:A:210:LEU:HD12	1:A:211:ALA:N	2.02	0.73
1:A:42:ALA:O	1:A:45:LEU:HB3	1.88	0.73
1:A:91:LEU:H	1:A:97:TRP:HZ3	1.37	0.73
1:D:42:ALA:O	1:D:45:LEU:HB3	1.88	0.73
1:D:49:TRP:CE2	1:D:53:LEU:HD11	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:52:TYR:HA	1:D:55:GLN:CD	2.08	0.73
1:A:39:LEU:HD12	1:A:40:ALA:N	2.04	0.73
1:B:91:LEU:H	1:B:97:TRP:HZ3	1.37	0.73
1:C:42:ALA:O	1:C:45:LEU:HB3	1.88	0.73
1:A:141:PHE:CG	1:B:105:LEU:HD13	2.24	0.72
1:A:205:LEU:HA	1:B:214:PHE:CZ	2.24	0.72
1:B:39:LEU:HD12	1:B:40:ALA:N	2.04	0.72
1:A:52:TYR:HA	1:A:55:GLN:CD	2.08	0.72
1:D:91:LEU:H	1:D:97:TRP:HZ3	1.37	0.72
1:B:4:LEU:HD11	1:B:271:ARG:HD3	1.71	0.72
1:D:105:LEU:O	1:D:108:PRO:HD2	1.90	0.72
1:B:84:VAL:HG23	1:B:85:PRO:HD3	1.70	0.72
1:A:148:TYR:HA	1:A:152:ARG:NH1	2.04	0.72
1:B:148:TYR:HA	1:B:152:ARG:NH1	2.04	0.72
1:B:155:GLN:OE1	1:B:155:GLN:N	2.16	0.72
1:B:205:LEU:HA	1:C:214:PHE:CZ	2.25	0.72
1:D:202:ILE:CA	1:D:205:LEU:HD13	2.17	0.72
1:D:204:GLY:O	1:D:207:ALA:HB3	1.88	0.72
1:D:37:SER:HB2	1:D:41:LEU:HD12	1.71	0.72
1:A:4:LEU:HD11	1:A:271:ARG:HD3	1.71	0.72
1:C:148:TYR:HA	1:C:152:ARG:NH1	2.05	0.72
1:B:37:SER:HB2	1:B:41:LEU:HD12	1.71	0.72
1:C:37:SER:HB2	1:C:41:LEU:HD12	1.71	0.72
1:B:105:LEU:O	1:B:108:PRO:HD2	1.90	0.71
1:B:25:VAL:HA	1:B:28:LEU:CB	2.21	0.71
1:D:125:GLU:OE1	1:D:126:ALA:N	2.21	0.71
1:D:148:TYR:HA	1:D:152:ARG:NH1	2.05	0.71
1:D:39:LEU:HD12	1:D:40:ALA:N	2.05	0.71
1:A:25:VAL:HA	1:A:28:LEU:CB	2.20	0.71
1:C:125:GLU:OE1	1:C:126:ALA:N	2.21	0.71
1:C:202:ILE:CA	1:C:205:LEU:HD13	2.17	0.71
1:C:25:VAL:HA	1:C:28:LEU:CB	2.20	0.71
1:C:84:VAL:HG23	1:C:85:PRO:HD3	1.71	0.71
1:C:39:LEU:HD12	1:C:40:ALA:N	2.05	0.71
1:D:4:LEU:HD11	1:D:271:ARG:HD3	1.71	0.71
1:A:151:GLU:HG2	1:A:164:GLN:HB2	1.73	0.71
1:A:105:LEU:O	1:A:108:PRO:HD2	1.90	0.71
1:D:25:VAL:HA	1:D:28:LEU:CB	2.20	0.71
1:B:151:GLU:HG2	1:B:164:GLN:HB2	1.73	0.71
1:C:105:LEU:O	1:C:108:PRO:HD2	1.90	0.71
1:D:151:GLU:HG2	1:D:164:GLN:HB2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:107:LYS:HZ1	1:A:110:ARG:HH22	1.37	0.70
1:B:189:ARG:NH1	1:C:167:TRP:HA	2.05	0.70
1:C:4:LEU:HD11	1:C:271:ARG:HD3	1.71	0.70
1:B:151:GLU:O	1:B:159:PHE:HB3	1.91	0.70
1:C:151:GLU:HG2	1:C:164:GLN:HB2	1.73	0.70
1:A:104:TRP:HB3	1:A:107:LYS:CD	2.22	0.70
1:A:158:LYS:HE2	1:A:159:PHE:CZ	2.27	0.70
1:A:167:TRP:HB3	1:D:189:ARG:HH12	1.56	0.70
1:C:151:GLU:O	1:C:159:PHE:HB3	1.91	0.70
1:B:125:GLU:OE1	1:B:126:ALA:N	2.21	0.70
1:A:81:ALA:O	1:A:85:PRO:HG3	1.92	0.70
1:B:158:LYS:HE2	1:B:159:PHE:CZ	2.27	0.70
1:D:151:GLU:O	1:D:159:PHE:HB3	1.91	0.70
1:D:56:LEU:HD11	1:D:82:VAL:HG21	1.74	0.70
1:A:37:SER:HB2	1:A:41:LEU:HD12	1.71	0.70
1:D:158:LYS:HE2	1:D:159:PHE:CZ	2.27	0.70
1:C:81:ALA:O	1:C:85:PRO:HG3	1.92	0.70
1:A:137:GLY:HA2	1:A:140:LEU:HD21	1.74	0.70
1:B:56:LEU:HD11	1:B:82:VAL:HG21	1.74	0.70
1:D:81:ALA:O	1:D:85:PRO:HG3	1.92	0.70
1:A:56:LEU:HD11	1:A:82:VAL:HG21	1.74	0.70
1:B:81:ALA:O	1:B:85:PRO:HG3	1.92	0.70
1:A:17:LEU:HG	1:A:107:LYS:HE3	1.74	0.69
1:D:100:TYR:O	1:D:103:VAL:HG13	1.92	0.69
1:D:137:GLY:HA2	1:D:140:LEU:HD21	1.74	0.69
1:B:100:TYR:O	1:B:103:VAL:HG13	1.92	0.69
1:B:17:LEU:HG	1:B:107:LYS:HE3	1.74	0.69
1:D:113:THR:O	1:D:116:PRO:HD2	1.92	0.69
1:A:100:TYR:O	1:A:103:VAL:HG13	1.92	0.69
1:A:137:GLY:HA2	1:A:140:LEU:CD2	2.23	0.69
1:A:189:ARG:HH12	1:B:167:TRP:CB	2.05	0.69
1:A:151:GLU:O	1:A:159:PHE:HB3	1.91	0.69
1:C:137:GLY:HA2	1:C:140:LEU:CD2	2.23	0.69
1:D:104:TRP:HB3	1:D:107:LYS:CD	2.22	0.69
1:B:1:MET:HG3	1:B:2:SER:H	1.58	0.69
1:C:137:GLY:HA2	1:C:140:LEU:HD21	1.74	0.69
1:A:113:THR:O	1:A:116:PRO:HD2	1.92	0.69
1:B:137:GLY:HA2	1:B:140:LEU:CD2	2.22	0.69
1:A:210:LEU:CD1	1:A:214:PHE:HE2	2.03	0.69
1:B:227:TRP:O	1:B:230:VAL:HG12	1.93	0.69
1:C:100:TYR:O	1:C:103:VAL:HG13	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:14:ASN:O	1:C:18:ALA:CB	2.41	0.69
1:A:227:TRP:O	1:A:230:VAL:HG12	1.93	0.69
1:B:104:TRP:HB3	1:B:107:LYS:CD	2.22	0.69
1:B:113:THR:O	1:B:116:PRO:HD2	1.93	0.69
1:C:158:LYS:HE2	1:C:159:PHE:CZ	2.27	0.69
1:C:48:ILE:HB	1:C:52:TYR:OH	1.93	0.69
1:A:126:ALA:O	1:A:129:LEU:HG	1.93	0.69
1:A:155:GLN:OE1	1:A:155:GLN:N	2.16	0.69
1:A:48:ILE:HB	1:A:52:TYR:OH	1.93	0.69
1:B:137:GLY:HA2	1:B:140:LEU:HD21	1.74	0.69
1:C:230:VAL:HG13	1:C:231:ALA:H	1.58	0.69
1:C:85:PRO:HA	1:C:88:ALA:CB	2.23	0.69
1:D:230:VAL:HG13	1:D:231:ALA:H	1.58	0.69
1:D:8:ARG:HD3	1:D:258:ALA:O	1.94	0.68
1:A:209:ILE:O	1:A:212:THR:HG22	1.93	0.68
1:A:8:ARG:HD3	1:A:258:ALA:O	1.94	0.68
1:B:189:ARG:HH12	1:C:167:TRP:HB3	1.58	0.68
1:B:209:ILE:O	1:B:212:THR:HG22	1.93	0.68
1:C:1:MET:HG3	1:C:2:SER:H	1.58	0.68
1:C:56:LEU:HD11	1:C:82:VAL:HG21	1.74	0.68
1:B:48:ILE:HB	1:B:52:TYR:OH	1.93	0.68
1:C:113:THR:O	1:C:116:PRO:HD2	1.93	0.68
1:D:137:GLY:HA2	1:D:140:LEU:CD2	2.23	0.68
1:D:193:GLY:HA2	1:D:196:MET:HE2	1.75	0.68
1:D:210:LEU:CD1	1:D:214:PHE:HE2	2.03	0.68
1:C:104:TRP:HB3	1:C:107:LYS:CD	2.22	0.68
1:C:209:ILE:O	1:C:212:THR:HG22	1.94	0.68
1:D:209:ILE:O	1:D:212:THR:HG22	1.94	0.68
1:D:227:TRP:O	1:D:230:VAL:HG12	1.93	0.68
1:A:85:PRO:HA	1:A:88:ALA:CB	2.23	0.68
1:B:85:PRO:HA	1:B:88:ALA:CB	2.23	0.68
1:D:126:ALA:O	1:D:129:LEU:HG	1.93	0.68
1:A:25:VAL:O	1:A:28:LEU:HB3	1.94	0.68
1:B:8:ARG:HD3	1:B:258:ALA:O	1.94	0.68
1:C:227:TRP:O	1:C:230:VAL:HG12	1.93	0.68
1:C:8:ARG:HD3	1:C:258:ALA:O	1.94	0.68
1:D:85:PRO:HA	1:D:88:ALA:CB	2.23	0.68
1:A:230:VAL:HG13	1:A:231:ALA:H	1.58	0.68
1:C:17:LEU:HG	1:C:107:LYS:HE3	1.74	0.68
1:C:4:LEU:HD21	1:C:271:ARG:HE	1.59	0.68
1:C:141:PHE:CG	1:D:105:LEU:HD13	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:220:ARG:HD3	1:D:1:MET:HE1	1.76	0.68
1:D:48:ILE:HB	1:D:52:TYR:OH	1.93	0.68
1:D:17:LEU:HG	1:D:107:LYS:HE3	1.74	0.68
1:A:141:PHE:HB2	1:B:105:LEU:HD13	1.76	0.68
1:B:126:ALA:O	1:B:129:LEU:HG	1.93	0.68
1:D:14:ASN:O	1:D:18:ALA:CB	2.41	0.68
1:D:155:GLN:N	1:D:155:GLN:OE1	2.16	0.67
1:A:150:ILE:HA	1:A:153:ASP:OD2	1.94	0.67
1:A:224:VAL:O	1:A:227:TRP:HB2	1.94	0.67
1:A:83:LEU:O	1:A:86:LEU:N	2.27	0.67
1:B:230:VAL:HG13	1:B:231:ALA:H	1.58	0.67
1:C:107:LYS:HZ1	1:C:110:ARG:NH2	1.92	0.67
1:C:126:ALA:O	1:C:129:LEU:HG	1.93	0.67
1:A:50:GLY:HA2	1:A:53:LEU:HD13	1.76	0.67
1:B:14:ASN:O	1:B:18:ALA:CB	2.41	0.67
1:B:224:VAL:O	1:B:227:TRP:HB2	1.94	0.67
1:A:1:MET:HG3	1:A:2:SER:H	1.58	0.67
1:B:4:LEU:HD21	1:B:271:ARG:HE	1.59	0.67
1:D:83:LEU:O	1:D:86:LEU:N	2.27	0.67
1:A:14:ASN:O	1:A:18:ALA:CB	2.41	0.67
1:B:83:LEU:O	1:B:86:LEU:HB2	1.95	0.67
1:C:50:GLY:HA2	1:C:53:LEU:HD13	1.76	0.67
1:D:150:ILE:HA	1:D:153:ASP:OD2	1.94	0.67
1:D:207:ALA:O	1:D:210:LEU:HG	1.95	0.67
1:D:4:LEU:HD21	1:D:271:ARG:HE	1.59	0.67
1:A:207:ALA:O	1:A:210:LEU:HG	1.95	0.67
1:A:267:GLU:HG2	1:D:69:ARG:HH12	1.58	0.67
1:C:133:THR:CA	1:C:136:PHE:HD2	2.07	0.67
1:C:25:VAL:O	1:C:28:LEU:HB3	1.94	0.67
1:B:133:THR:CA	1:B:136:PHE:HD2	2.07	0.67
1:C:224:VAL:O	1:C:227:TRP:HB2	1.95	0.67
1:A:167:TRP:HA	1:D:189:ARG:NH1	2.10	0.67
1:A:193:GLY:HA2	1:A:196:MET:HE2	1.74	0.67
1:B:25:VAL:O	1:B:28:LEU:HB3	1.94	0.67
1:C:83:LEU:O	1:C:86:LEU:N	2.27	0.67
1:D:188:GLY:HA2	1:D:191:LEU:CD2	2.25	0.67
1:A:49:TRP:CZ2	1:A:86:LEU:HD21	2.30	0.67
1:B:83:LEU:O	1:B:86:LEU:N	2.27	0.67
1:C:83:LEU:O	1:C:86:LEU:HB2	1.95	0.67
1:D:107:LYS:HZ1	1:D:110:ARG:NH2	1.93	0.67
1:B:189:ARG:HH12	1:C:167:TRP:CA	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:150:ILE:HA	1:C:153:ASP:OD2	1.94	0.67
1:C:207:ALA:O	1:C:210:LEU:HG	1.95	0.67
1:D:49:TRP:CZ2	1:D:86:LEU:HD21	2.30	0.67
1:B:49:TRP:CZ2	1:B:86:LEU:HD21	2.30	0.66
1:A:105:LEU:HD13	1:D:141:PHE:HB2	1.77	0.66
1:C:205:LEU:HA	1:D:214:PHE:CZ	2.30	0.66
1:A:4:LEU:HD21	1:A:271:ARG:HE	1.59	0.66
1:B:188:GLY:HA2	1:B:191:LEU:CD2	2.25	0.66
1:C:49:TRP:CZ2	1:C:86:LEU:HD21	2.30	0.66
1:B:150:ILE:HA	1:B:153:ASP:OD2	1.95	0.66
1:B:186:PHE:O	1:B:189:ARG:HB3	1.95	0.66
1:C:186:PHE:O	1:C:189:ARG:HB3	1.96	0.66
1:A:133:THR:CA	1:A:136:PHE:HD2	2.07	0.66
1:A:188:GLY:HA2	1:A:191:LEU:CD2	2.25	0.66
1:D:146:ALA:O	1:D:150:ILE:HG23	1.96	0.66
1:D:25:VAL:O	1:D:28:LEU:HB3	1.94	0.66
1:A:146:ALA:O	1:A:150:ILE:HG23	1.96	0.66
1:A:162:ILE:HG21	1:B:29:THR:HG21	1.78	0.66
1:A:1:MET:HE3	1:D:220:ARG:HD3	1.76	0.66
1:A:52:TYR:O	1:A:56:LEU:HG	1.96	0.66
1:B:50:GLY:HA2	1:B:53:LEU:HD13	1.76	0.66
1:B:52:TYR:O	1:B:56:LEU:HG	1.96	0.66
1:C:188:GLY:HA2	1:C:191:LEU:CD2	2.25	0.66
1:D:186:PHE:O	1:D:189:ARG:HB3	1.96	0.66
1:D:52:TYR:O	1:D:56:LEU:HG	1.96	0.66
1:A:21:GLY:O	1:A:25:VAL:HG22	1.96	0.66
1:B:189:ARG:HH12	1:C:167:TRP:HA	1.61	0.66
1:C:23:LEU:HD12	1:C:24:ALA:N	2.11	0.66
1:C:299:MET:O	1:C:303:SER:CB	2.44	0.66
1:D:77:ILE:O	1:D:80:LEU:HG	1.96	0.66
1:D:50:GLY:HA2	1:D:53:LEU:HD13	1.76	0.66
1:C:77:ILE:O	1:C:80:LEU:HG	1.96	0.66
1:D:224:VAL:O	1:D:227:TRP:HB2	1.95	0.66
1:D:83:LEU:O	1:D:86:LEU:HB2	1.95	0.66
1:A:189:ARG:O	1:A:192:ALA:N	2.29	0.66
1:D:133:THR:CA	1:D:136:PHE:HD2	2.07	0.66
1:B:189:ARG:O	1:B:192:ALA:N	2.30	0.65
1:B:77:ILE:O	1:B:80:LEU:HG	1.96	0.65
1:D:71:ARG:NH2	1:D:73:PRO:HB2	2.11	0.65
1:A:186:PHE:O	1:A:189:ARG:HB3	1.95	0.65
1:A:30:ILE:O	1:A:30:ILE:HG23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:207:ALA:O	1:B:210:LEU:HG	1.95	0.65
1:B:23:LEU:HD12	1:B:24:ALA:N	2.11	0.65
1:A:129:LEU:HD12	1:A:130:ILE:N	2.11	0.65
1:C:52:TYR:O	1:C:56:LEU:HG	1.96	0.65
1:D:1:MET:HG3	1:D:2:SER:H	1.58	0.65
1:A:77:ILE:O	1:A:80:LEU:HG	1.96	0.65
1:B:21:GLY:O	1:B:25:VAL:HG22	1.96	0.65
1:B:30:ILE:O	1:B:30:ILE:HG23	1.96	0.65
1:C:21:GLY:O	1:C:25:VAL:HG22	1.96	0.65
1:A:83:LEU:O	1:A:86:LEU:HB2	1.95	0.65
1:C:146:ALA:O	1:C:150:ILE:HG23	1.96	0.65
1:D:148:TYR:CE1	1:D:162:ILE:HD11	2.32	0.65
1:D:82:VAL:HA	1:D:104:TRP:CH2	2.32	0.65
1:A:132:VAL:HG22	1:A:136:PHE:CE2	2.32	0.65
1:A:85:PRO:O	1:A:88:ALA:HB3	1.97	0.65
1:B:106:LEU:O	1:B:109:LEU:HB3	1.97	0.65
1:B:146:ALA:O	1:B:150:ILE:HG23	1.96	0.65
1:B:230:VAL:HG13	1:B:231:ALA:N	2.12	0.65
1:D:129:LEU:HD12	1:D:130:ILE:N	2.11	0.65
1:D:21:GLY:O	1:D:25:VAL:HG22	1.96	0.65
1:D:85:PRO:O	1:D:88:ALA:HB3	1.97	0.65
1:A:82:VAL:HA	1:A:104:TRP:CH2	2.32	0.65
1:A:141:PHE:CB	1:B:105:LEU:HD13	2.27	0.65
1:B:132:VAL:HG22	1:B:136:PHE:CE2	2.32	0.65
1:B:71:ARG:NH2	1:B:73:PRO:HB2	2.11	0.65
1:C:189:ARG:O	1:C:192:ALA:N	2.29	0.65
1:D:189:ARG:O	1:D:192:ALA:N	2.29	0.65
1:D:23:LEU:HD12	1:D:24:ALA:N	2.11	0.65
1:B:129:LEU:HD12	1:B:130:ILE:N	2.11	0.65
1:C:230:VAL:HG13	1:C:231:ALA:N	2.12	0.65
1:A:148:TYR:CE1	1:A:162:ILE:HD11	2.32	0.65
1:A:189:ARG:HH12	1:B:167:TRP:HB3	1.62	0.65
1:A:299:MET:O	1:A:303:SER:CB	2.44	0.65
1:B:82:VAL:HA	1:B:104:TRP:CH2	2.32	0.65
1:B:26:ALA:HB3	1:B:41:LEU:CD1	2.26	0.65
1:D:106:LEU:O	1:D:109:LEU:HB3	1.97	0.65
1:A:26:ALA:HB3	1:A:41:LEU:CD1	2.26	0.65
1:B:299:MET:O	1:B:303:SER:CB	2.44	0.65
1:D:230:VAL:HG13	1:D:231:ALA:N	2.12	0.65
1:D:299:MET:O	1:D:303:SER:CB	2.44	0.65
1:C:132:VAL:HG22	1:C:136:PHE:CE2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:141:PHE:CG	1:C:105:LEU:HD13	2.32	0.64
1:B:148:TYR:CE1	1:B:162:ILE:HD11	2.32	0.64
1:C:129:LEU:HD12	1:C:130:ILE:N	2.11	0.64
1:C:189:ARG:NH1	1:D:167:TRP:HA	2.12	0.64
1:C:26:ALA:HB3	1:C:41:LEU:CD1	2.26	0.64
1:D:135:LEU:HA	1:D:138:VAL:CG2	2.27	0.64
1:D:137:GLY:HA2	1:D:140:LEU:CG	2.28	0.64
1:D:26:ALA:HB3	1:D:41:LEU:CD1	2.26	0.64
1:A:223:PHE:HA	1:A:226:ASN:ND2	2.02	0.64
1:A:23:LEU:HD12	1:A:24:ALA:N	2.11	0.64
1:B:137:GLY:HA2	1:B:140:LEU:CG	2.27	0.64
1:C:52:TYR:HA	1:C:55:GLN:NE2	2.13	0.64
1:C:71:ARG:NH2	1:C:73:PRO:HB2	2.11	0.64
1:D:132:VAL:HG22	1:D:136:PHE:CE2	2.32	0.64
1:B:52:TYR:HA	1:B:55:GLN:NE2	2.13	0.64
1:B:85:PRO:O	1:B:88:ALA:HB3	1.97	0.64
1:C:82:VAL:HA	1:C:104:TRP:CH2	2.32	0.64
1:C:148:TYR:CE1	1:C:162:ILE:HD11	2.32	0.64
1:C:191:LEU:HD12	1:C:192:ALA:N	2.13	0.64
1:C:210:LEU:CD1	1:C:214:PHE:HE2	2.03	0.64
1:C:52:TYR:HA	1:C:55:GLN:HG2	1.79	0.64
1:C:85:PRO:O	1:C:88:ALA:HB3	1.97	0.64
1:D:30:ILE:O	1:D:30:ILE:HG23	1.96	0.64
1:D:52:TYR:HA	1:D:55:GLN:HG2	1.79	0.64
1:A:191:LEU:HD12	1:A:192:ALA:N	2.12	0.64
1:A:113:THR:CG2	1:D:131:GLY:HA3	2.28	0.64
1:A:230:VAL:HG13	1:A:231:ALA:N	2.12	0.64
1:A:71:ARG:NH2	1:A:73:PRO:HB2	2.11	0.64
1:B:220:ARG:HD3	1:C:1:MET:HE3	1.79	0.64
1:C:137:GLY:HA2	1:C:140:LEU:CG	2.28	0.64
1:C:23:LEU:HB2	1:C:41:LEU:CD2	2.25	0.64
1:C:30:ILE:HG23	1:C:30:ILE:O	1.96	0.64
1:A:137:GLY:HA2	1:A:140:LEU:CG	2.27	0.64
1:D:191:LEU:HD12	1:D:192:ALA:N	2.12	0.64
1:D:52:TYR:HA	1:D:55:GLN:NE2	2.13	0.64
1:A:52:TYR:HA	1:A:55:GLN:NE2	2.12	0.64
1:A:52:TYR:HA	1:A:55:GLN:CG	2.28	0.64
1:B:52:TYR:HA	1:B:55:GLN:CG	2.28	0.64
1:C:189:ARG:HH12	1:D:167:TRP:CA	2.11	0.64
1:B:135:LEU:HA	1:B:138:VAL:CG2	2.27	0.64
1:A:138:VAL:HA	1:A:141:PHE:CZ	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:29:THR:HG21	1:D:162:ILE:HG21	1.80	0.64
1:A:52:TYR:HA	1:A:55:GLN:HG2	1.79	0.64
1:B:55:GLN:O	1:B:58:ALA:HB3	1.98	0.64
1:C:106:LEU:O	1:C:109:LEU:HB3	1.97	0.64
1:C:55:GLN:O	1:C:58:ALA:HB3	1.98	0.64
1:A:55:GLN:O	1:A:58:ALA:HB3	1.98	0.63
1:B:191:LEU:HD12	1:B:192:ALA:N	2.13	0.63
1:C:135:LEU:HA	1:C:138:VAL:CG2	2.27	0.63
1:D:164:GLN:HA	1:D:167:TRP:HE1	1.62	0.63
1:A:135:LEU:HA	1:A:138:VAL:CG2	2.27	0.63
1:B:193:GLY:HA2	1:B:196:MET:HE2	1.80	0.63
1:B:210:LEU:CD1	1:B:214:PHE:HE2	2.03	0.63
1:A:167:TRP:CA	1:D:189:ARG:HH12	2.11	0.63
1:A:106:LEU:O	1:A:109:LEU:HB3	1.97	0.63
1:A:132:VAL:HA	1:A:135:LEU:HD12	1.81	0.63
1:A:91:LEU:HG	1:A:93:GLY:N	2.08	0.63
1:B:102:ALA:O	1:B:105:LEU:HG	1.99	0.63
1:C:26:ALA:HB3	1:C:41:LEU:HD13	1.81	0.63
1:A:102:ALA:O	1:A:105:LEU:HG	1.99	0.63
1:A:89:PHE:HA	1:A:97:TRP:HH2	1.63	0.63
1:B:84:VAL:CG2	1:B:85:PRO:HD3	2.29	0.63
1:C:132:VAL:HA	1:C:135:LEU:HD12	1.81	0.63
1:C:138:VAL:HA	1:C:141:PHE:CZ	2.33	0.63
1:D:132:VAL:HA	1:D:135:LEU:HD12	1.81	0.63
1:A:26:ALA:HB3	1:A:41:LEU:HD13	1.81	0.63
1:B:26:ALA:HB3	1:B:41:LEU:HD13	1.81	0.63
1:C:162:ILE:O	1:C:166:MET:HG2	1.99	0.63
1:A:164:GLN:HA	1:A:167:TRP:HE1	1.62	0.63
1:B:64:ARG:HG2	1:B:66:GLY:H	1.64	0.63
1:C:196:MET:O	1:C:200:ILE:HG23	1.99	0.63
1:B:69:ARG:HH12	1:C:267:GLU:HG2	1.64	0.63
1:C:89:PHE:HA	1:C:97:TRP:HH2	1.63	0.63
1:D:102:ALA:O	1:D:105:LEU:HG	1.99	0.63
1:C:102:ALA:O	1:C:105:LEU:HG	1.99	0.63
1:D:162:ILE:O	1:D:166:MET:HG2	1.98	0.63
1:D:55:GLN:O	1:D:58:ALA:HB3	1.98	0.63
1:B:132:VAL:HA	1:B:135:LEU:HD12	1.81	0.63
1:B:196:MET:O	1:B:200:ILE:HG23	1.99	0.63
1:C:64:ARG:HG2	1:C:66:GLY:H	1.64	0.63
1:C:52:TYR:HA	1:C:55:GLN:CG	2.28	0.62
1:A:167:TRP:HA	1:D:189:ARG:HH12	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:89:PHE:HA	1:D:97:TRP:HH2	1.63	0.62
1:B:162:ILE:O	1:B:166:MET:HG2	1.98	0.62
1:B:6:PHE:HB3	1:B:256:VAL:HG22	1.81	0.62
1:C:6:PHE:HB3	1:C:256:VAL:HG22	1.81	0.62
1:D:71:ARG:HD2	1:D:73:PRO:HD2	1.81	0.62
1:D:84:VAL:CG2	1:D:85:PRO:HD3	2.29	0.62
1:A:84:VAL:CG2	1:A:85:PRO:HD3	2.29	0.62
1:B:138:VAL:HA	1:B:141:PHE:CZ	2.33	0.62
1:B:220:ARG:O	1:B:224:VAL:HG22	2.00	0.62
1:D:26:ALA:HB3	1:D:41:LEU:HD13	1.81	0.62
1:A:112:SER:HB2	1:A:114:PHE:CE2	2.34	0.62
1:B:112:SER:HB2	1:B:114:PHE:CE2	2.34	0.62
1:B:150:ILE:HA	1:B:153:ASP:CG	2.20	0.62
1:B:52:TYR:HA	1:B:55:GLN:HG2	1.79	0.62
1:D:112:SER:HB2	1:D:114:PHE:CE2	2.34	0.62
1:A:64:ARG:HG2	1:A:66:GLY:H	1.64	0.62
1:D:52:TYR:HA	1:D:55:GLN:CG	2.28	0.62
1:C:71:ARG:HD2	1:C:73:PRO:HD2	1.81	0.62
1:C:84:VAL:CG2	1:C:85:PRO:HD3	2.29	0.62
1:D:91:LEU:HG	1:D:93:GLY:N	2.08	0.62
1:A:150:ILE:HA	1:A:153:ASP:CG	2.20	0.62
1:A:162:ILE:O	1:A:166:MET:HG2	1.99	0.62
1:A:19:ALA:CA	1:A:22:LEU:HG	2.30	0.62
1:B:107:LYS:HZ1	1:B:110:ARG:NH2	1.96	0.62
1:B:3:VAL:HG13	1:B:254:ARG:HG2	1.82	0.62
1:C:220:ARG:O	1:C:224:VAL:HG22	2.00	0.62
1:D:138:VAL:HA	1:D:141:PHE:CZ	2.33	0.62
1:A:192:ALA:O	1:A:195:VAL:HG12	2.00	0.62
1:B:192:ALA:O	1:B:195:VAL:HG12	2.00	0.62
1:C:150:ILE:HA	1:C:153:ASP:CG	2.20	0.62
1:D:23:LEU:HB2	1:D:41:LEU:CD2	2.25	0.62
1:A:220:ARG:O	1:A:224:VAL:HG22	2.00	0.62
1:D:17:LEU:CD2	1:D:110:ARG:HG3	2.30	0.62
1:D:120:ARG:O	1:D:124:ASN:HB3	2.00	0.62
1:D:150:ILE:O	1:D:153:ASP:HB2	2.00	0.62
1:B:120:ARG:O	1:B:124:ASN:HB3	1.99	0.61
1:C:150:ILE:O	1:C:153:ASP:HB2	2.00	0.61
1:C:193:GLY:HA2	1:C:196:MET:HE2	1.81	0.61
1:D:222:ASP:O	1:D:225:ARG:HB3	2.00	0.61
1:D:19:ALA:CA	1:D:22:LEU:HG	2.30	0.61
1:A:85:PRO:CA	1:A:88:ALA:HB3	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:131:GLY:O	1:B:134:THR:HG22	2.00	0.61
1:B:89:PHE:HA	1:B:97:TRP:HH2	1.63	0.61
1:C:120:ARG:O	1:C:124:ASN:HB3	2.00	0.61
1:D:64:ARG:HG2	1:D:66:GLY:H	1.64	0.61
1:A:196:MET:O	1:A:200:ILE:HG23	1.99	0.61
1:B:87:ALA:CA	1:B:90:LEU:HD13	2.30	0.61
1:C:112:SER:HB2	1:C:114:PHE:CE2	2.35	0.61
1:D:85:PRO:CA	1:D:88:ALA:HB3	2.30	0.61
1:A:17:LEU:CD2	1:A:110:ARG:HG3	2.30	0.61
1:A:120:ARG:O	1:A:124:ASN:HB3	1.99	0.61
1:C:58:ALA:O	1:C:62:LYS:HE3	2.00	0.61
1:A:105:LEU:HD13	1:D:141:PHE:CB	2.31	0.61
1:A:222:ASP:O	1:A:225:ARG:HB3	2.00	0.61
1:A:71:ARG:HD2	1:A:73:PRO:HD2	1.81	0.61
1:B:17:LEU:CD2	1:B:110:ARG:HG3	2.30	0.61
1:B:150:ILE:O	1:B:153:ASP:HB2	2.00	0.61
1:D:171:VAL:HG21	1:D:178:TYR:H	1.66	0.61
1:D:192:ALA:O	1:D:195:VAL:HG12	2.00	0.61
1:B:223:PHE:HA	1:B:226:ASN:ND2	2.02	0.61
1:A:189:ARG:O	1:A:192:ALA:HB3	2.01	0.61
1:A:58:ALA:O	1:A:62:LYS:HE3	2.00	0.61
1:A:84:VAL:N	1:A:85:PRO:HD2	2.16	0.61
1:B:164:GLN:HA	1:B:167:TRP:HE1	1.62	0.61
1:B:83:LEU:HA	1:B:86:LEU:CD1	2.31	0.61
1:C:171:VAL:HG21	1:C:178:TYR:H	1.66	0.61
1:C:17:LEU:CD2	1:C:110:ARG:HG3	2.30	0.61
1:C:83:LEU:HA	1:C:86:LEU:CD1	2.31	0.61
1:A:131:GLY:O	1:A:134:THR:HG22	2.00	0.61
1:B:222:ASP:O	1:B:225:ARG:HB3	2.00	0.61
1:D:220:ARG:O	1:D:224:VAL:HG22	2.00	0.61
1:A:3:VAL:HG13	1:A:254:ARG:HG2	1.82	0.61
1:A:150:ILE:O	1:A:153:ASP:HB2	2.00	0.61
1:B:71:ARG:HD2	1:B:73:PRO:HD2	1.81	0.61
1:D:8:ARG:HB2	1:D:10:TYR:CZ	2.36	0.61
1:D:6:PHE:HB3	1:D:256:VAL:HG22	1.81	0.61
1:D:3:VAL:HG13	1:D:254:ARG:HG2	1.82	0.61
1:A:154:ILE:HG13	1:A:156:PRO:CD	2.30	0.60
1:B:58:ALA:O	1:B:62:LYS:HE3	2.00	0.60
1:C:131:GLY:O	1:C:134:THR:HG22	2.00	0.60
1:C:162:ILE:CG2	1:C:163:PRO:HD3	2.31	0.60
1:C:222:ASP:O	1:C:225:ARG:HB3	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3:VAL:HG13	1:C:254:ARG:HG2	1.82	0.60
1:C:48:ILE:HD12	1:C:49:TRP:N	2.16	0.60
1:D:58:ALA:O	1:D:62:LYS:HE3	2.01	0.60
1:B:154:ILE:HG13	1:B:156:PRO:CD	2.30	0.60
1:B:23:LEU:HB2	1:B:41:LEU:CD2	2.25	0.60
1:B:84:VAL:N	1:B:85:PRO:HD2	2.16	0.60
1:B:141:PHE:HB2	1:C:105:LEU:HD13	1.83	0.60
1:C:8:ARG:HB2	1:C:10:TYR:CZ	2.36	0.60
1:C:19:ALA:CA	1:C:22:LEU:HG	2.30	0.60
1:D:150:ILE:HA	1:D:153:ASP:CG	2.20	0.60
1:A:6:PHE:HB3	1:A:256:VAL:HG22	1.81	0.60
1:C:130:ILE:O	1:C:133:THR:HB	2.02	0.60
1:C:87:ALA:CA	1:C:90:LEU:HD13	2.30	0.60
1:A:171:VAL:HG21	1:A:178:TYR:H	1.66	0.60
1:C:189:ARG:O	1:C:192:ALA:HB3	2.01	0.60
1:C:192:ALA:O	1:C:195:VAL:HG12	1.99	0.60
1:D:131:GLY:O	1:D:134:THR:HG22	2.00	0.60
1:D:162:ILE:CG2	1:D:163:PRO:HD3	2.31	0.60
1:D:83:LEU:HA	1:D:86:LEU:CD1	2.31	0.60
1:A:87:ALA:CA	1:A:90:LEU:HD13	2.30	0.60
1:B:127:ARG:HH22	1:C:5:PRO:HB2	1.67	0.60
1:B:130:ILE:O	1:B:133:THR:HB	2.02	0.60
1:B:189:ARG:O	1:B:192:ALA:HB3	2.01	0.60
1:C:91:LEU:HG	1:C:93:GLY:N	2.08	0.60
1:A:83:LEU:HA	1:A:86:LEU:CD1	2.31	0.60
1:B:19:ALA:CA	1:B:22:LEU:HG	2.30	0.60
1:B:5:PRO:HB3	1:B:254:ARG:HG3	1.84	0.60
1:C:164:GLN:HA	1:C:167:TRP:HE1	1.62	0.60
1:C:5:PRO:HB3	1:C:254:ARG:HG3	1.84	0.60
1:A:105:LEU:HD13	1:D:141:PHE:CG	2.36	0.60
1:A:130:ILE:O	1:A:133:THR:HB	2.02	0.60
1:A:8:ARG:HB2	1:A:10:TYR:CZ	2.36	0.60
1:B:106:LEU:HD12	1:B:107:LYS:N	2.17	0.60
1:B:137:GLY:HA2	1:B:140:LEU:HG	1.84	0.60
1:D:189:ARG:O	1:D:192:ALA:HB3	2.01	0.60
1:D:87:ALA:CA	1:D:90:LEU:HD13	2.30	0.60
1:A:131:GLY:HA3	1:B:113:THR:CG2	2.32	0.60
1:C:215:TYR:O	1:C:218:VAL:HG22	2.02	0.60
1:C:94:SER:HB3	1:C:95:PRO:CD	2.32	0.60
1:D:196:MET:O	1:D:200:ILE:HG23	1.99	0.60
1:D:215:TYR:O	1:D:218:VAL:HG22	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:223:PHE:HA	1:D:226:ASN:ND2	2.02	0.60
1:D:84:VAL:N	1:D:85:PRO:HD2	2.16	0.60
1:A:23:LEU:HB2	1:A:41:LEU:CD2	2.25	0.60
1:D:48:ILE:HD12	1:D:49:TRP:N	2.16	0.60
1:B:76:ALA:HA	1:B:79:VAL:CG1	2.32	0.60
1:A:106:LEU:HD12	1:A:107:LYS:N	2.17	0.59
1:A:107:LYS:HZ1	1:A:110:ARG:NH2	1.99	0.59
1:B:111:ASP:OD1	1:B:112:SER:N	2.35	0.59
1:B:171:VAL:HG21	1:B:178:TYR:H	1.66	0.59
1:B:215:TYR:O	1:B:218:VAL:HG22	2.02	0.59
1:B:8:ARG:HB2	1:B:10:TYR:CZ	2.36	0.59
1:B:94:SER:HB3	1:B:95:PRO:CD	2.32	0.59
1:D:19:ALA:N	1:D:20:PRO:HD2	2.17	0.59
1:A:111:ASP:OD1	1:A:112:SER:N	2.35	0.59
1:A:263:CYS:SG	1:A:264:ARG:N	2.75	0.59
1:A:48:ILE:HD12	1:A:49:TRP:N	2.16	0.59
1:A:96:ASP:HA	1:A:99:LEU:CG	2.32	0.59
1:B:152:ARG:NH2	1:B:162:ILE:HA	2.17	0.59
1:B:263:CYS:SG	1:B:264:ARG:N	2.75	0.59
1:C:76:ALA:HA	1:C:79:VAL:CG1	2.31	0.59
1:D:111:ASP:OD1	1:D:112:SER:N	2.35	0.59
1:D:76:ALA:HA	1:D:79:VAL:CG1	2.32	0.59
1:A:76:ALA:HA	1:A:79:VAL:CG1	2.32	0.59
1:B:48:ILE:HD12	1:B:49:TRP:N	2.17	0.59
1:D:1:MET:HG3	1:D:2:SER:N	2.17	0.59
1:D:96:ASP:HA	1:D:99:LEU:CG	2.32	0.59
1:A:127:ARG:HH22	1:B:5:PRO:HB2	1.67	0.59
1:B:168:TRP:O	1:B:172:THR:HG23	2.02	0.59
1:C:24:ALA:O	1:C:28:LEU:N	2.36	0.59
1:D:130:ILE:O	1:D:133:THR:HB	2.02	0.59
1:C:189:ARG:NH1	1:D:167:TRP:CB	2.62	0.59
1:B:76:ALA:O	1:B:79:VAL:HG12	2.02	0.59
1:C:223:PHE:CA	1:C:226:ASN:HD22	2.06	0.59
1:A:189:ARG:NH1	1:B:167:TRP:HA	2.17	0.59
1:C:106:LEU:HD12	1:C:107:LYS:N	2.17	0.59
1:C:162:ILE:HG21	1:D:29:THR:HG21	1.83	0.59
1:C:49:TRP:HA	1:C:52:TYR:CD2	2.38	0.59
1:C:69:ARG:HH12	1:D:267:GLU:HG2	1.67	0.59
1:D:94:SER:HB3	1:D:95:PRO:CD	2.32	0.59
1:A:162:ILE:CG2	1:A:163:PRO:HD3	2.31	0.59
1:A:168:TRP:O	1:A:172:THR:HG23	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:5:PRO:HB3	1:A:254:ARG:HG3	1.84	0.59
1:D:253:ALA:O	1:D:254:ARG:NH1	2.28	0.59
1:D:5:PRO:HB3	1:D:254:ARG:HG3	1.84	0.59
1:A:137:GLY:HA2	1:A:140:LEU:HG	1.84	0.59
1:A:24:ALA:O	1:A:28:LEU:N	2.36	0.59
1:B:162:ILE:CG2	1:B:163:PRO:HD3	2.31	0.59
1:A:118:LEU:HA	1:A:121:VAL:HB	1.85	0.59
1:D:128:ASN:O	1:D:132:VAL:HG12	2.03	0.59
1:D:83:LEU:C	1:D:85:PRO:HD2	2.24	0.59
1:A:132:VAL:O	1:A:135:LEU:HB2	2.03	0.59
1:A:152:ARG:NH2	1:A:162:ILE:HA	2.17	0.59
1:A:215:TYR:O	1:A:218:VAL:HG22	2.02	0.59
1:A:1:MET:HG3	1:A:2:SER:N	2.18	0.59
1:A:94:SER:HB3	1:A:95:PRO:CD	2.32	0.59
1:B:96:ASP:HA	1:B:99:LEU:CG	2.32	0.59
1:C:128:ASN:O	1:C:132:VAL:HG12	2.03	0.59
1:C:152:ARG:NH2	1:C:162:ILE:HA	2.17	0.59
1:C:19:ALA:N	1:C:20:PRO:HD2	2.18	0.59
1:C:65:ALA:HB3	1:C:67:VAL:HG13	1.85	0.59
1:D:263:CYS:SG	1:D:264:ARG:N	2.75	0.59
1:A:76:ALA:O	1:A:79:VAL:HG12	2.03	0.58
1:C:76:ALA:O	1:C:79:VAL:HG12	2.02	0.58
1:A:49:TRP:HA	1:A:52:TYR:CD2	2.38	0.58
1:A:83:LEU:C	1:A:85:PRO:HD2	2.23	0.58
1:B:141:PHE:CB	1:C:105:LEU:HD13	2.34	0.58
1:B:253:ALA:O	1:B:254:ARG:NH1	2.28	0.58
1:B:65:ALA:HB3	1:B:67:VAL:HG13	1.85	0.58
1:C:263:CYS:SG	1:C:264:ARG:N	2.75	0.58
1:D:168:TRP:O	1:D:172:THR:HG23	2.02	0.58
1:D:76:ALA:O	1:D:79:VAL:HG12	2.02	0.58
1:A:19:ALA:HA	1:A:22:LEU:HD21	1.86	0.58
1:B:132:VAL:O	1:B:135:LEU:HB2	2.03	0.58
1:C:1:MET:HG3	1:C:2:SER:N	2.17	0.58
1:D:118:LEU:HA	1:D:121:VAL:HB	1.85	0.58
1:D:137:GLY:HA2	1:D:140:LEU:HG	1.84	0.58
1:A:94:SER:HB3	1:A:95:PRO:HD2	1.86	0.58
1:C:168:TRP:O	1:C:172:THR:HG23	2.03	0.58
1:A:128:ASN:O	1:A:132:VAL:HG12	2.03	0.58
1:A:19:ALA:N	1:A:20:PRO:HD2	2.17	0.58
1:A:200:ILE:HG13	1:A:201:GLY:N	2.19	0.58
1:B:128:ASN:O	1:B:132:VAL:HG12	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:19:ALA:N	1:B:20:PRO:HD2	2.17	0.58
1:B:200:ILE:HG13	1:B:201:GLY:N	2.19	0.58
1:B:49:TRP:HA	1:B:52:TYR:CD2	2.38	0.58
1:B:89:PHE:HA	1:B:97:TRP:CH2	2.39	0.58
1:C:83:LEU:C	1:C:85:PRO:HD2	2.24	0.58
1:C:96:ASP:HA	1:C:99:LEU:CG	2.32	0.58
1:D:24:ALA:O	1:D:28:LEU:N	2.36	0.58
1:A:69:ARG:HH12	1:B:267:GLU:HG2	1.68	0.58
1:B:177:GLY:C	1:C:178:TYR:HB3	2.24	0.58
1:B:19:ALA:HA	1:B:22:LEU:HD21	1.86	0.58
1:C:111:ASP:OD1	1:C:112:SER:N	2.35	0.58
1:C:84:VAL:N	1:C:85:PRO:HD2	2.16	0.58
1:C:85:PRO:CA	1:C:88:ALA:HB3	2.30	0.58
1:D:106:LEU:HD12	1:D:107:LYS:N	2.17	0.58
1:D:49:TRP:HA	1:D:52:TYR:CD2	2.38	0.58
1:B:83:LEU:C	1:B:85:PRO:HD2	2.23	0.58
1:B:85:PRO:CA	1:B:88:ALA:HB3	2.31	0.58
1:B:94:SER:HB3	1:B:95:PRO:HD2	1.86	0.58
1:D:154:ILE:HG13	1:D:156:PRO:CD	2.29	0.58
1:D:24:ALA:O	1:D:28:LEU:HB2	2.04	0.58
1:A:89:PHE:HA	1:A:97:TRP:CH2	2.39	0.58
1:B:23:LEU:O	1:B:41:LEU:HD13	2.04	0.58
1:C:132:VAL:O	1:C:135:LEU:HB2	2.03	0.58
1:C:200:ILE:HG13	1:C:201:GLY:N	2.19	0.58
1:A:82:VAL:HA	1:A:104:TRP:CZ3	2.39	0.58
1:B:118:LEU:HA	1:B:121:VAL:HB	1.85	0.58
1:C:154:ILE:HG13	1:C:156:PRO:CD	2.29	0.58
1:D:200:ILE:HG13	1:D:201:GLY:N	2.19	0.58
1:D:19:ALA:HA	1:D:22:LEU:HD21	1.86	0.58
1:A:65:ALA:HB3	1:A:67:VAL:HG13	1.85	0.58
1:C:118:LEU:HA	1:C:121:VAL:HB	1.85	0.58
1:C:137:GLY:HA2	1:C:140:LEU:HG	1.84	0.58
1:D:132:VAL:O	1:D:135:LEU:HB2	2.03	0.58
1:C:94:SER:HB3	1:C:95:PRO:HD2	1.86	0.57
1:C:189:ARG:HH12	1:D:167:TRP:HA	1.68	0.57
1:D:79:VAL:O	1:D:82:VAL:HG22	2.04	0.57
1:A:120:ARG:HH21	1:A:220:ARG:HG2	1.69	0.57
1:A:24:ALA:O	1:A:28:LEU:HB2	2.04	0.57
1:B:280:VAL:HB	1:B:290:LEU:HD12	1.86	0.57
1:B:1:MET:HG3	1:B:2:SER:N	2.17	0.57
1:C:89:PHE:HA	1:C:97:TRP:CH2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:152:ARG:NH2	1:D:162:ILE:HA	2.17	0.57
1:B:24:ALA:O	1:B:28:LEU:N	2.36	0.57
1:B:152:ARG:CA	1:B:160:GLY:HA2	2.30	0.57
1:C:86:LEU:HA	1:C:89:PHE:HD2	1.69	0.57
1:D:120:ARG:HH21	1:D:220:ARG:HG2	1.69	0.57
1:A:22:LEU:HD12	1:A:23:LEU:H	1.69	0.57
1:A:79:VAL:O	1:A:82:VAL:HG22	2.05	0.57
1:B:82:VAL:HA	1:B:104:TRP:CZ3	2.39	0.57
1:B:107:LYS:NZ	1:B:110:ARG:HH22	2.02	0.57
1:C:23:LEU:HD13	1:C:41:LEU:O	2.05	0.57
1:D:65:ALA:HB3	1:D:67:VAL:HG13	1.85	0.57
1:D:94:SER:HB3	1:D:95:PRO:HD2	1.86	0.57
1:A:23:LEU:O	1:A:41:LEU:HD13	2.04	0.57
1:B:189:ARG:HH22	1:C:167:TRP:CB	2.17	0.57
1:C:280:VAL:HB	1:C:290:LEU:HD12	1.86	0.57
1:C:29:THR:HG23	1:C:31:PRO:CD	2.31	0.57
1:D:18:ALA:C	1:D:20:PRO:HD2	2.25	0.57
1:D:23:LEU:O	1:D:41:LEU:HD13	2.04	0.57
1:B:23:LEU:HD13	1:B:41:LEU:O	2.05	0.57
1:D:114:PHE:HA	1:D:117:VAL:CG2	2.35	0.57
1:A:107:LYS:NZ	1:A:110:ARG:HH22	2.02	0.57
1:A:253:ALA:O	1:A:254:ARG:NH1	2.28	0.57
1:B:18:ALA:C	1:B:20:PRO:HD2	2.25	0.57
1:B:120:ARG:HH21	1:B:220:ARG:HG2	1.69	0.57
1:B:79:VAL:O	1:B:82:VAL:HG22	2.04	0.57
1:B:86:LEU:HA	1:B:89:PHE:HD2	1.69	0.57
1:C:23:LEU:O	1:C:41:LEU:HD13	2.04	0.57
1:C:56:LEU:CD1	1:C:82:VAL:HG21	2.35	0.57
1:D:86:LEU:HA	1:D:89:PHE:HD2	1.69	0.57
1:A:186:PHE:O	1:A:189:ARG:N	2.38	0.57
1:B:140:LEU:HD12	1:B:141:PHE:H	1.69	0.57
1:D:233:VAL:HG13	1:D:234:PRO:HD2	1.87	0.57
1:A:211:ALA:HA	1:A:214:PHE:HD2	1.70	0.57
1:A:280:VAL:HB	1:A:290:LEU:HD12	1.86	0.57
1:A:78:ASP:O	1:A:81:ALA:HB3	2.05	0.57
1:C:82:VAL:HA	1:C:104:TRP:CZ3	2.39	0.57
1:C:152:ARG:CA	1:C:160:GLY:HA2	2.30	0.57
1:C:223:PHE:HA	1:C:226:ASN:ND2	2.02	0.57
1:C:24:ALA:O	1:C:28:LEU:HB2	2.04	0.57
1:C:79:VAL:O	1:C:82:VAL:HG22	2.04	0.57
1:D:137:GLY:CA	1:D:140:LEU:HG	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:280:VAL:HB	1:D:290:LEU:HD12	1.86	0.57
1:D:56:LEU:CD1	1:D:82:VAL:HG21	2.35	0.57
1:D:89:PHE:HA	1:D:97:TRP:CH2	2.39	0.57
1:A:18:ALA:C	1:A:20:PRO:HD2	2.25	0.56
1:B:211:ALA:HA	1:B:214:PHE:HD2	1.70	0.56
1:D:78:ASP:O	1:D:81:ALA:HB3	2.05	0.56
1:A:167:TRP:CB	1:D:189:ARG:NH1	2.68	0.56
1:B:22:LEU:HD12	1:B:23:LEU:H	1.70	0.56
1:C:120:ARG:HH21	1:C:220:ARG:HG2	1.69	0.56
1:D:23:LEU:HD13	1:D:41:LEU:O	2.05	0.56
1:D:82:VAL:HA	1:D:104:TRP:CZ3	2.39	0.56
1:A:23:LEU:HD13	1:A:41:LEU:O	2.05	0.56
1:B:56:LEU:CD1	1:B:82:VAL:HG21	2.35	0.56
1:C:186:PHE:O	1:C:189:ARG:N	2.38	0.56
1:C:211:ALA:HA	1:C:214:PHE:HD2	1.70	0.56
1:A:137:GLY:CA	1:A:140:LEU:HG	2.35	0.56
1:A:214:PHE:HZ	1:D:205:LEU:CA	2.17	0.56
1:B:114:PHE:HA	1:B:117:VAL:CG2	2.35	0.56
1:C:151:GLU:OE1	1:C:159:PHE:HD1	1.89	0.56
1:D:186:PHE:O	1:D:189:ARG:N	2.38	0.56
1:B:137:GLY:CA	1:B:140:LEU:HG	2.35	0.56
1:C:18:ALA:C	1:C:20:PRO:HD2	2.25	0.56
1:A:189:ARG:HH12	1:B:167:TRP:CA	2.19	0.56
1:B:24:ALA:O	1:B:28:LEU:HB2	2.04	0.56
1:C:137:GLY:CA	1:C:140:LEU:HG	2.35	0.56
1:C:75:ILE:HD12	1:C:75:ILE:H	1.71	0.56
1:C:78:ASP:O	1:C:81:ALA:HB3	2.05	0.56
1:D:75:ILE:HD12	1:D:75:ILE:H	1.71	0.56
1:A:195:VAL:HA	1:A:198:SER:OG	2.06	0.56
1:A:233:VAL:HG13	1:A:234:PRO:HD2	1.87	0.56
1:B:91:LEU:HG	1:B:93:GLY:N	2.08	0.56
1:D:151:GLU:OE1	1:D:159:PHE:HD1	1.89	0.56
1:D:52:TYR:CZ	1:D:107:LYS:HE2	2.41	0.56
1:A:166:MET:O	1:A:169:ALA:HB3	2.06	0.56
1:A:189:ARG:HH12	1:B:167:TRP:HA	1.71	0.56
1:A:114:PHE:HA	1:A:117:VAL:CG2	2.35	0.56
1:B:75:ILE:H	1:B:75:ILE:HD12	1.71	0.56
1:C:137:GLY:C	1:C:140:LEU:HG	2.26	0.56
1:A:52:TYR:CZ	1:A:107:LYS:HE2	2.41	0.56
1:B:200:ILE:HA	1:B:203:PHE:CD2	2.33	0.56
1:B:131:GLY:HA3	1:C:113:THR:CG2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:140:LEU:HD12	1:C:141:PHE:H	1.69	0.56
1:C:19:ALA:HA	1:C:22:LEU:HD21	1.86	0.56
1:A:162:ILE:HB	1:B:29:THR:HB	1.87	0.56
1:A:29:THR:HG23	1:A:31:PRO:CD	2.31	0.56
1:A:220:ARG:HD3	1:B:1:MET:HE1	1.88	0.56
1:B:186:PHE:O	1:B:189:ARG:N	2.38	0.55
1:B:233:VAL:HG13	1:B:234:PRO:HD2	1.87	0.55
1:C:233:VAL:HG13	1:C:234:PRO:HD2	1.87	0.55
1:D:211:ALA:HA	1:D:214:PHE:HD2	1.70	0.55
1:A:25:VAL:CA	1:A:28:LEU:HB2	2.36	0.55
1:B:189:ARG:NH1	1:C:167:TRP:CB	2.69	0.55
1:D:137:GLY:C	1:D:140:LEU:HG	2.26	0.55
1:D:195:VAL:HA	1:D:198:SER:OG	2.06	0.55
1:A:75:ILE:HD12	1:A:75:ILE:H	1.71	0.55
1:A:86:LEU:HA	1:A:89:PHE:HD2	1.69	0.55
1:B:166:MET:O	1:B:169:ALA:HB3	2.06	0.55
1:B:263:CYS:SG	1:B:307:ARG:HD2	2.47	0.55
1:B:78:ASP:O	1:B:81:ALA:HB3	2.05	0.55
1:C:52:TYR:CZ	1:C:107:LYS:HE2	2.41	0.55
1:A:137:GLY:C	1:A:140:LEU:HG	2.26	0.55
1:A:140:LEU:HD12	1:A:141:PHE:H	1.69	0.55
1:A:29:THR:HB	1:D:162:ILE:HB	1.88	0.55
1:B:52:TYR:CZ	1:B:107:LYS:HE2	2.41	0.55
1:B:154:ILE:HG23	1:B:154:ILE:O	2.06	0.55
1:C:114:PHE:HA	1:C:117:VAL:CG2	2.35	0.55
1:C:141:PHE:HA	1:C:144:ALA:HB3	1.89	0.55
1:C:166:MET:O	1:C:169:ALA:HB3	2.06	0.55
1:D:166:MET:O	1:D:169:ALA:HB3	2.06	0.55
1:D:29:THR:HG23	1:D:31:PRO:CD	2.31	0.55
1:C:127:ARG:HH22	1:D:5:PRO:HB2	1.70	0.55
1:A:152:ARG:CA	1:A:160:GLY:HA2	2.30	0.55
1:A:151:GLU:OE1	1:A:159:PHE:HD1	1.89	0.55
1:B:195:VAL:HA	1:B:198:SER:OG	2.06	0.55
1:B:37:SER:HB2	1:B:41:LEU:HG	1.89	0.55
1:C:195:VAL:HA	1:C:198:SER:OG	2.06	0.55
1:C:37:SER:HB2	1:C:41:LEU:HG	1.89	0.55
1:D:141:PHE:HA	1:D:144:ALA:HB3	1.89	0.55
1:B:137:GLY:C	1:B:140:LEU:HG	2.27	0.55
1:A:245:VAL:HG22	1:B:329:MET:SD	2.47	0.55
1:C:200:ILE:HA	1:C:203:PHE:CD2	2.33	0.55
1:C:22:LEU:HD12	1:C:23:LEU:H	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:263:CYS:SG	1:C:307:ARG:HD2	2.47	0.55
1:D:52:TYR:HB3	1:D:82:VAL:HG12	1.89	0.55
1:A:154:ILE:HG23	1:A:154:ILE:O	2.06	0.55
1:B:25:VAL:CA	1:B:28:LEU:HB2	2.37	0.55
1:C:141:PHE:CD1	1:D:105:LEU:HD13	2.42	0.55
1:C:167:TRP:HA	1:C:170:VAL:HG12	1.89	0.55
1:C:154:ILE:O	1:C:154:ILE:HG23	2.07	0.55
1:D:167:TRP:HA	1:D:170:VAL:HG12	1.89	0.55
1:D:25:VAL:CA	1:D:28:LEU:HB2	2.36	0.55
1:C:206:TRP:CH2	1:C:210:LEU:HD23	2.43	0.55
1:C:52:TYR:HB3	1:C:82:VAL:HG12	1.89	0.55
1:D:263:CYS:SG	1:D:307:ARG:HD2	2.47	0.55
1:A:71:ARG:CZ	1:A:73:PRO:HB2	2.38	0.54
1:B:151:GLU:OE1	1:B:159:PHE:HD1	1.89	0.54
1:D:107:LYS:NZ	1:D:110:ARG:HH22	2.02	0.54
1:D:71:ARG:CZ	1:D:73:PRO:HB2	2.37	0.54
1:A:56:LEU:CD1	1:A:82:VAL:HG21	2.35	0.54
1:B:147:ALA:HA	1:B:150:ILE:HG13	1.89	0.54
1:B:56:LEU:HD11	1:B:82:VAL:CG2	2.38	0.54
1:C:71:ARG:HG3	1:C:74:LYS:H	1.73	0.54
1:C:170:VAL:HG13	1:C:171:VAL:N	2.23	0.54
1:A:76:ALA:CA	1:A:79:VAL:HG12	2.37	0.54
1:B:167:TRP:HA	1:B:170:VAL:HG12	1.89	0.54
1:B:170:VAL:HG13	1:B:171:VAL:N	2.23	0.54
1:B:19:ALA:C	1:B:22:LEU:HG	2.27	0.54
1:C:107:LYS:NZ	1:C:110:ARG:HH22	2.02	0.54
1:A:141:PHE:HA	1:A:144:ALA:HB3	1.89	0.54
1:C:147:ALA:HA	1:C:150:ILE:HG13	1.89	0.54
1:D:76:ALA:CA	1:D:79:VAL:HG12	2.37	0.54
1:A:200:ILE:HA	1:A:203:PHE:CD2	2.33	0.54
1:A:206:TRP:CH2	1:A:210:LEU:HD23	2.43	0.54
1:A:263:CYS:SG	1:A:307:ARG:HD2	2.47	0.54
1:B:141:PHE:HA	1:B:144:ALA:HB3	1.89	0.54
1:B:52:TYR:HB3	1:B:82:VAL:HG12	1.89	0.54
1:C:71:ARG:CZ	1:C:73:PRO:HB2	2.37	0.54
1:C:56:LEU:HD11	1:C:82:VAL:CG2	2.38	0.54
1:D:111:ASP:O	1:D:112:SER:OG	2.25	0.54
1:A:111:ASP:O	1:A:112:SER:OG	2.25	0.54
1:A:88:ALA:O	1:A:97:TRP:CH2	2.61	0.54
1:B:29:THR:HG23	1:B:31:PRO:CD	2.31	0.54
1:C:171:VAL:HG23	1:C:178:TYR:CE2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:202:ILE:HG13	1:C:203:PHE:N	2.23	0.54
1:D:154:ILE:HG23	1:D:154:ILE:O	2.07	0.54
1:D:206:TRP:CH2	1:D:210:LEU:HD23	2.43	0.54
1:D:37:SER:HB2	1:D:41:LEU:HG	1.89	0.54
1:D:71:ARG:HG3	1:D:74:LYS:H	1.72	0.54
1:A:37:SER:HB2	1:A:41:LEU:HG	1.89	0.54
1:B:202:ILE:HG13	1:B:203:PHE:N	2.23	0.54
1:D:69:ARG:HG2	1:D:69:ARG:O	2.08	0.54
1:D:88:ALA:O	1:D:97:TRP:CH2	2.61	0.54
1:A:167:TRP:HA	1:A:170:VAL:HG12	1.89	0.54
1:A:19:ALA:C	1:A:22:LEU:HG	2.27	0.54
1:A:56:LEU:HD11	1:A:82:VAL:CG2	2.38	0.54
1:A:71:ARG:HG3	1:A:74:LYS:H	1.73	0.54
1:B:71:ARG:HG3	1:B:74:LYS:H	1.73	0.54
1:C:19:ALA:C	1:C:22:LEU:HG	2.27	0.54
1:A:148:TYR:HA	1:A:152:ARG:HH12	1.73	0.54
1:A:170:VAL:HG13	1:A:171:VAL:N	2.23	0.54
1:A:56:LEU:HD11	1:A:82:VAL:CB	2.38	0.54
1:B:111:ASP:O	1:B:112:SER:OG	2.25	0.54
1:B:145:LEU:O	1:B:148:TYR:N	2.41	0.54
1:C:145:LEU:O	1:C:148:TYR:N	2.42	0.54
1:A:1:MET:HB3	1:D:120:ARG:HE	1.73	0.54
1:D:170:VAL:HG13	1:D:171:VAL:N	2.23	0.54
1:C:69:ARG:HG2	1:C:69:ARG:O	2.08	0.53
1:D:137:GLY:O	1:D:141:PHE:CD2	2.61	0.53
1:A:138:VAL:HA	1:A:141:PHE:CE2	2.44	0.53
1:A:52:TYR:HB3	1:A:82:VAL:HG12	1.89	0.53
1:B:71:ARG:CZ	1:B:73:PRO:HB2	2.37	0.53
1:C:138:VAL:HA	1:C:141:PHE:CE2	2.44	0.53
1:D:107:LYS:N	1:D:108:PRO:HD2	2.24	0.53
1:D:148:TYR:CE1	1:D:162:ILE:CD1	2.91	0.53
1:A:49:TRP:O	1:A:52:TYR:N	2.40	0.53
1:B:137:GLY:O	1:B:141:PHE:CD2	2.61	0.53
1:C:137:GLY:O	1:C:141:PHE:CD2	2.62	0.53
1:C:253:ALA:O	1:C:254:ARG:NH1	2.28	0.53
1:D:140:LEU:HD12	1:D:141:PHE:H	1.69	0.53
1:D:202:ILE:HG13	1:D:203:PHE:N	2.23	0.53
1:D:56:LEU:HD11	1:D:82:VAL:CB	2.38	0.53
1:A:162:ILE:CD1	1:A:166:MET:HE2	2.34	0.53
1:B:152:ARG:HA	1:B:160:GLY:CA	2.33	0.53
1:B:206:TRP:CH2	1:B:210:LEU:HD23	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1:MET:H1	1:D:123:ALA:HB1	1.72	0.53
1:B:49:TRP:O	1:B:52:TYR:N	2.40	0.53
1:C:148:TYR:CE1	1:C:162:ILE:CD1	2.91	0.53
1:D:138:VAL:HA	1:D:141:PHE:CE2	2.44	0.53
1:D:145:LEU:O	1:D:148:TYR:N	2.41	0.53
1:A:69:ARG:O	1:A:69:ARG:HG2	2.08	0.53
1:B:148:TYR:HA	1:B:152:ARG:HH12	1.73	0.53
1:B:171:VAL:HG23	1:B:178:TYR:CE2	2.43	0.53
1:C:118:LEU:HA	1:C:121:VAL:CB	2.39	0.53
1:B:162:ILE:HG21	1:C:29:THR:HG21	1.91	0.53
1:D:162:ILE:CD1	1:D:166:MET:HE2	2.33	0.53
1:D:56:LEU:HD11	1:D:82:VAL:CG2	2.38	0.53
1:A:147:ALA:HA	1:A:150:ILE:HG13	1.89	0.53
1:A:268:PRO:HA	1:A:306:PRO:HB2	1.91	0.53
1:B:138:VAL:HA	1:B:141:PHE:CE2	2.44	0.53
1:C:76:ALA:CA	1:C:79:VAL:HG12	2.37	0.53
1:D:171:VAL:HG23	1:D:178:TYR:CE2	2.43	0.53
1:D:200:ILE:HA	1:D:203:PHE:CD2	2.33	0.53
1:A:137:GLY:O	1:A:141:PHE:CD2	2.62	0.53
1:B:118:LEU:HA	1:B:121:VAL:CB	2.39	0.53
1:B:56:LEU:HD11	1:B:82:VAL:CB	2.38	0.53
1:C:146:ALA:O	1:C:149:VAL:HG12	2.09	0.53
1:C:227:TRP:HE1	1:D:325:ALA:CB	2.08	0.53
1:C:88:ALA:O	1:C:97:TRP:CH2	2.61	0.53
1:A:202:ILE:HG13	1:A:203:PHE:N	2.23	0.53
1:A:37:SER:HB2	1:A:41:LEU:CG	2.39	0.53
1:B:148:TYR:CE1	1:B:162:ILE:CD1	2.91	0.53
1:C:233:VAL:HB	1:C:236:PHE:CD2	2.44	0.53
1:C:25:VAL:CA	1:C:28:LEU:HB2	2.36	0.53
1:D:19:ALA:C	1:D:22:LEU:HG	2.27	0.53
1:D:22:LEU:HD12	1:D:23:LEU:H	1.70	0.53
1:A:148:TYR:CE1	1:A:162:ILE:CD1	2.91	0.53
1:A:151:GLU:CG	1:A:164:GLN:HB2	2.39	0.53
1:A:197:MET:SD	1:A:200:ILE:HD11	2.50	0.53
1:B:171:VAL:HG22	1:B:177:GLY:HA2	1.92	0.53
1:C:107:LYS:N	1:C:108:PRO:HD2	2.24	0.53
1:C:329:MET:O	1:C:333:SER:HB3	2.09	0.53
1:C:56:LEU:HD11	1:C:82:VAL:CB	2.38	0.53
1:D:127:ARG:O	1:D:130:ILE:N	2.42	0.53
1:A:127:ARG:O	1:A:130:ILE:N	2.42	0.52
1:A:13:LEU:HD12	1:A:14:ASN:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:171:VAL:HG22	1:A:177:GLY:HA2	1.91	0.52
1:A:233:VAL:HB	1:A:236:PHE:CD2	2.44	0.52
1:A:329:MET:O	1:A:333:SER:HB3	2.09	0.52
1:B:88:ALA:O	1:B:97:TRP:CH2	2.61	0.52
1:C:81:ALA:HB1	1:C:110:ARG:HH21	1.74	0.52
1:D:152:ARG:CA	1:D:160:GLY:HA2	2.30	0.52
1:D:329:MET:O	1:D:333:SER:HB3	2.10	0.52
1:B:81:ALA:HB1	1:B:110:ARG:HH21	1.74	0.52
1:D:151:GLU:CG	1:D:164:GLN:HB2	2.39	0.52
1:D:282:VAL:HG22	1:D:311:VAL:HG12	1.91	0.52
1:A:171:VAL:HG23	1:A:178:TYR:CE2	2.43	0.52
1:A:282:VAL:HG22	1:A:311:VAL:HG12	1.92	0.52
1:B:117:VAL:HG23	1:B:118:LEU:HD12	1.92	0.52
1:B:9:ILE:HG13	1:B:9:ILE:O	2.10	0.52
1:C:13:LEU:HD12	1:C:14:ASN:N	2.24	0.52
1:C:154:ILE:C	1:C:156:PRO:HD2	2.30	0.52
1:D:118:LEU:HA	1:D:121:VAL:CB	2.39	0.52
1:D:197:MET:SD	1:D:200:ILE:HD11	2.50	0.52
1:D:233:VAL:HB	1:D:236:PHE:CD2	2.44	0.52
1:B:96:ASP:HA	1:B:99:LEU:CD1	2.40	0.52
1:C:111:ASP:O	1:C:112:SER:OG	2.25	0.52
1:C:37:SER:HB2	1:C:41:LEU:CG	2.39	0.52
1:C:49:TRP:O	1:C:52:TYR:N	2.40	0.52
1:D:37:SER:HB2	1:D:41:LEU:CG	2.39	0.52
1:D:9:ILE:HG13	1:D:9:ILE:O	2.10	0.52
1:A:74:LYS:HG3	1:A:75:ILE:N	2.25	0.52
1:A:81:ALA:HB1	1:A:110:ARG:HH21	1.74	0.52
1:D:143:VAL:CG1	1:D:173:LEU:HD21	2.40	0.52
1:A:107:LYS:N	1:A:108:PRO:HD2	2.24	0.52
1:A:117:VAL:HG23	1:A:118:LEU:HD12	1.92	0.52
1:A:345:ALA:O	1:A:349:ARG:HG3	2.10	0.52
1:B:233:VAL:HB	1:B:236:PHE:CD2	2.44	0.52
1:C:117:VAL:HG23	1:C:118:LEU:HD12	1.92	0.52
1:C:120:ARG:HD3	1:C:123:ALA:CB	2.36	0.52
1:C:143:VAL:CG1	1:C:173:LEU:HD21	2.40	0.52
1:C:345:ALA:O	1:C:349:ARG:HG3	2.10	0.52
1:C:9:ILE:HG13	1:C:9:ILE:O	2.10	0.52
1:D:111:ASP:OD1	1:D:115:PHE:HE2	1.93	0.52
1:D:117:VAL:HG23	1:D:118:LEU:HD12	1.92	0.52
1:D:13:LEU:HD12	1:D:14:ASN:N	2.24	0.52
1:D:268:PRO:HA	1:D:306:PRO:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:197:MET:HE1	1:B:206:TRP:CD2	2.44	0.52
1:B:13:LEU:HD12	1:B:14:ASN:N	2.24	0.52
1:B:146:ALA:O	1:B:149:VAL:HG12	2.09	0.52
1:B:268:PRO:HA	1:B:306:PRO:HB2	1.91	0.52
1:C:268:PRO:HA	1:C:306:PRO:HB2	1.91	0.52
1:C:96:ASP:CB	1:C:99:LEU:HD12	2.40	0.52
1:D:146:ALA:O	1:D:149:VAL:HG12	2.09	0.52
1:A:154:ILE:C	1:A:156:PRO:HD2	2.30	0.52
1:A:220:ARG:HD3	1:B:1:MET:HE3	1.91	0.52
1:A:96:ASP:CB	1:A:99:LEU:HD12	2.40	0.52
1:B:111:ASP:OD1	1:B:115:PHE:HE2	1.93	0.52
1:B:69:ARG:HG2	1:B:69:ARG:O	2.08	0.52
1:C:139:VAL:HG22	1:C:173:LEU:HD22	1.92	0.52
1:D:147:ALA:HA	1:D:150:ILE:HG13	1.89	0.52
1:D:345:ALA:O	1:D:349:ARG:HG3	2.10	0.52
1:D:96:ASP:CB	1:D:99:LEU:HD12	2.40	0.52
1:A:145:LEU:O	1:A:148:TYR:N	2.41	0.52
1:A:15:ALA:O	1:A:19:ALA:HB2	2.10	0.52
1:A:276:VAL:HG23	1:A:318:SER:O	2.10	0.52
1:B:74:LYS:HG3	1:B:75:ILE:N	2.25	0.52
1:C:154:ILE:CG1	1:C:156:PRO:HD2	2.33	0.52
1:C:171:VAL:HG22	1:C:177:GLY:HA2	1.92	0.52
1:C:197:MET:SD	1:C:200:ILE:HD11	2.50	0.52
1:C:96:ASP:HA	1:C:99:LEU:CD1	2.40	0.52
1:D:154:ILE:C	1:D:156:PRO:HD2	2.30	0.52
1:D:171:VAL:HG22	1:D:177:GLY:HA2	1.91	0.52
1:B:154:ILE:C	1:B:156:PRO:HD2	2.30	0.52
1:B:329:MET:O	1:B:333:SER:HB3	2.10	0.52
1:D:276:VAL:HG23	1:D:318:SER:O	2.10	0.52
1:D:310:THR:HG22	1:D:311:VAL:N	2.25	0.52
1:A:111:ASP:OD1	1:A:115:PHE:HE2	1.93	0.51
1:A:120:ARG:O	1:A:124:ASN:N	2.43	0.51
1:A:146:ALA:O	1:A:149:VAL:HG12	2.09	0.51
1:A:96:ASP:HA	1:A:99:LEU:CD1	2.40	0.51
1:A:9:ILE:HG13	1:A:9:ILE:O	2.10	0.51
1:B:189:ARG:HH22	1:C:167:TRP:HB2	1.75	0.51
1:B:76:ALA:CA	1:B:79:VAL:HG12	2.37	0.51
1:C:282:VAL:HG22	1:C:311:VAL:HG12	1.91	0.51
1:D:15:ALA:O	1:D:19:ALA:HB2	2.10	0.51
1:A:118:LEU:HA	1:A:121:VAL:CB	2.39	0.51
1:B:120:ARG:O	1:B:124:ASN:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:139:VAL:HG22	1:B:173:LEU:HD22	1.92	0.51
1:B:143:VAL:CG1	1:B:173:LEU:HD21	2.40	0.51
1:B:37:SER:HB2	1:B:41:LEU:CG	2.39	0.51
1:B:96:ASP:CB	1:B:99:LEU:HD12	2.40	0.51
1:C:120:ARG:O	1:C:124:ASN:N	2.43	0.51
1:C:151:GLU:CG	1:C:164:GLN:HB2	2.39	0.51
1:C:111:ASP:OD1	1:C:115:PHE:HE2	1.93	0.51
1:C:81:ALA:O	1:C:85:PRO:CG	2.59	0.51
1:D:86:LEU:O	1:D:89:PHE:HB2	2.11	0.51
1:A:143:VAL:CG1	1:A:173:LEU:HD21	2.40	0.51
1:B:197:MET:SD	1:B:200:ILE:HD11	2.50	0.51
1:C:162:ILE:CD1	1:C:166:MET:HE2	2.31	0.51
1:B:189:ARG:NH2	1:C:167:TRP:HB2	2.26	0.51
1:D:81:ALA:HB1	1:D:110:ARG:HH21	1.74	0.51
1:A:223:PHE:CA	1:A:226:ASN:HD22	2.06	0.51
1:B:197:MET:HE1	1:C:206:TRP:CD2	2.44	0.51
1:C:169:ALA:O	1:C:172:THR:OG1	2.28	0.51
1:C:310:THR:HG22	1:C:311:VAL:N	2.25	0.51
1:D:199:GLY:O	1:D:203:PHE:CD2	2.64	0.51
1:A:169:ALA:O	1:A:172:THR:OG1	2.28	0.51
1:B:169:ALA:O	1:B:172:THR:OG1	2.28	0.51
1:B:282:VAL:HG22	1:B:311:VAL:HG12	1.92	0.51
1:B:345:ALA:O	1:B:349:ARG:HG3	2.10	0.51
1:C:152:ARG:HA	1:C:160:GLY:CA	2.33	0.51
1:C:15:ALA:O	1:C:19:ALA:HB2	2.10	0.51
1:D:120:ARG:O	1:D:124:ASN:N	2.43	0.51
1:A:84:VAL:HG23	1:A:85:PRO:CD	2.40	0.51
1:B:276:VAL:HG23	1:B:318:SER:O	2.10	0.51
1:C:199:GLY:O	1:C:203:PHE:CD2	2.64	0.51
1:D:85:PRO:C	1:D:88:ALA:HB3	2.31	0.51
1:D:96:ASP:HA	1:D:99:LEU:CD1	2.40	0.51
1:A:114:PHE:HA	1:A:117:VAL:HG22	1.92	0.51
1:A:310:THR:HG22	1:A:311:VAL:N	2.25	0.51
1:A:85:PRO:C	1:A:88:ALA:HB3	2.31	0.51
1:A:86:LEU:O	1:A:89:PHE:HB2	2.11	0.51
1:B:151:GLU:CG	1:B:164:GLN:HB2	2.39	0.51
1:B:310:THR:HG22	1:B:311:VAL:N	2.25	0.51
1:C:74:LYS:HG3	1:C:75:ILE:N	2.25	0.51
1:A:199:GLY:O	1:A:203:PHE:CD2	2.64	0.51
1:B:84:VAL:HG23	1:B:85:PRO:CD	2.40	0.51
1:C:276:VAL:HG23	1:C:318:SER:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:49:TRP:HE3	1:C:52:TYR:HD2	1.59	0.51
1:C:86:LEU:O	1:C:89:PHE:HB2	2.11	0.51
1:B:107:LYS:N	1:B:108:PRO:HD2	2.24	0.51
1:B:81:ALA:O	1:B:85:PRO:CG	2.59	0.51
1:A:139:VAL:HG22	1:A:173:LEU:HD22	1.92	0.50
1:A:48:ILE:HB	1:A:52:TYR:CZ	2.46	0.50
1:B:127:ARG:O	1:B:130:ILE:N	2.42	0.50
1:B:15:ALA:O	1:B:19:ALA:HB2	2.10	0.50
1:C:85:PRO:C	1:C:88:ALA:HB3	2.32	0.50
1:C:87:ALA:HA	1:C:90:LEU:CD1	2.40	0.50
1:A:49:TRP:HE3	1:A:52:TYR:HD2	1.59	0.50
1:C:48:ILE:HB	1:C:52:TYR:CZ	2.46	0.50
1:C:84:VAL:HG23	1:C:85:PRO:CD	2.40	0.50
1:D:120:ARG:HD3	1:D:123:ALA:CB	2.36	0.50
1:D:49:TRP:HE3	1:D:52:TYR:HD2	1.59	0.50
1:D:74:LYS:HG3	1:D:75:ILE:N	2.25	0.50
1:A:104:TRP:CE3	1:A:107:LYS:HD2	2.47	0.50
1:B:86:LEU:O	1:B:89:PHE:HB2	2.11	0.50
1:C:127:ARG:O	1:C:130:ILE:N	2.42	0.50
1:B:205:LEU:CA	1:C:214:PHE:HZ	2.20	0.50
1:C:141:PHE:HB2	1:D:105:LEU:HD13	1.93	0.50
1:D:49:TRP:O	1:D:52:TYR:N	2.40	0.50
1:D:81:ALA:O	1:D:85:PRO:CG	2.59	0.50
1:D:91:LEU:N	1:D:97:TRP:HZ3	2.08	0.50
1:A:107:LYS:NZ	1:A:110:ARG:NH2	2.59	0.50
1:A:72:THR:O	1:A:75:ILE:CD1	2.60	0.50
1:B:49:TRP:HE3	1:B:52:TYR:HD2	1.59	0.50
1:B:85:PRO:C	1:B:88:ALA:HB3	2.31	0.50
1:D:139:VAL:HG22	1:D:173:LEU:HD22	1.92	0.50
1:A:222:ASP:OD2	1:A:252:ARG:NE	2.45	0.50
1:A:27:ALA:HB2	1:A:37:SER:OG	2.11	0.50
1:B:222:ASP:OD2	1:B:252:ARG:NE	2.45	0.50
1:D:48:ILE:HB	1:D:52:TYR:CZ	2.46	0.50
1:A:199:GLY:O	1:A:202:ILE:HG12	2.12	0.50
1:B:107:LYS:NZ	1:B:110:ARG:NH2	2.59	0.50
1:B:301:LEU:HG	1:B:302:ILE:HD13	1.93	0.50
1:B:72:THR:O	1:B:75:ILE:CD1	2.60	0.50
1:C:114:PHE:HA	1:C:117:VAL:HG22	1.92	0.50
1:C:222:ASP:OD2	1:C:252:ARG:NE	2.45	0.50
1:C:177:GLY:C	1:D:178:TYR:HB3	2.30	0.50
1:D:87:ALA:HA	1:D:90:LEU:CD1	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:104:TRP:CE3	1:B:107:LYS:HD2	2.47	0.50
1:B:199:GLY:O	1:B:203:PHE:CD2	2.64	0.50
1:C:301:LEU:HG	1:C:302:ILE:HD13	1.93	0.50
1:C:107:LYS:NZ	1:C:110:ARG:NH2	2.59	0.50
1:D:148:TYR:HA	1:D:152:ARG:HH12	1.73	0.50
1:D:199:GLY:O	1:D:202:ILE:HG12	2.12	0.50
1:D:222:ASP:OD2	1:D:252:ARG:NE	2.45	0.50
1:D:27:ALA:HB2	1:D:37:SER:OG	2.11	0.50
1:A:125:GLU:CD	1:A:126:ALA:H	2.14	0.50
1:A:154:ILE:CG1	1:A:156:PRO:HD2	2.33	0.50
1:A:81:ALA:O	1:A:85:PRO:CG	2.58	0.50
1:B:116:PRO:O	1:B:119:GLY:CA	2.60	0.50
1:B:199:GLY:O	1:B:202:ILE:HG12	2.12	0.50
1:B:49:TRP:CZ3	1:B:104:TRP:HH2	2.30	0.50
1:D:104:TRP:CE3	1:D:107:LYS:HD2	2.47	0.50
1:D:197:MET:C	1:D:200:ILE:HG12	2.33	0.50
1:A:197:MET:C	1:A:200:ILE:HG12	2.33	0.49
1:A:301:LEU:HG	1:A:302:ILE:HD13	1.93	0.49
1:B:120:ARG:HD3	1:B:123:ALA:CB	2.36	0.49
1:B:171:VAL:HG13	1:B:172:THR:N	2.27	0.49
1:D:84:VAL:N	1:D:85:PRO:CD	2.75	0.49
1:D:84:VAL:HG23	1:D:85:PRO:CD	2.40	0.49
1:B:114:PHE:HA	1:B:117:VAL:HG22	1.92	0.49
1:B:48:ILE:HB	1:B:52:TYR:CZ	2.46	0.49
1:C:205:LEU:H	1:C:205:LEU:HD12	1.77	0.49
1:C:27:ALA:HB2	1:C:37:SER:OG	2.11	0.49
1:C:72:THR:O	1:C:75:ILE:CD1	2.60	0.49
1:D:114:PHE:HA	1:D:117:VAL:HG22	1.93	0.49
1:C:227:TRP:CE2	1:D:325:ALA:HB2	2.47	0.49
1:A:147:ALA:O	1:A:150:ILE:HG13	2.12	0.49
1:A:152:ARG:HA	1:A:160:GLY:CA	2.33	0.49
1:A:171:VAL:HG13	1:A:172:THR:N	2.27	0.49
1:B:27:ALA:HB2	1:B:37:SER:OG	2.11	0.49
1:C:116:PRO:O	1:C:119:GLY:CA	2.60	0.49
1:D:116:PRO:O	1:D:119:GLY:CA	2.60	0.49
1:D:72:THR:O	1:D:75:ILE:CD1	2.60	0.49
1:B:147:ALA:O	1:B:150:ILE:HG13	2.12	0.49
1:C:171:VAL:HG13	1:C:172:THR:N	2.27	0.49
1:C:37:SER:HA	1:C:40:ALA:HB3	1.95	0.49
1:D:205:LEU:H	1:D:205:LEU:HD12	1.77	0.49
1:C:162:ILE:HB	1:D:29:THR:HB	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:245:VAL:HG22	1:D:329:MET:SD	2.52	0.49
1:A:116:PRO:O	1:A:119:GLY:CA	2.60	0.49
1:A:141:PHE:CD1	1:B:105:LEU:HD13	2.47	0.49
1:A:74:LYS:O	1:A:77:ILE:HB	2.13	0.49
1:A:80:LEU:O	1:A:84:VAL:HG22	2.13	0.49
1:C:49:TRP:CZ3	1:C:104:TRP:HH2	2.30	0.49
1:C:147:ALA:O	1:C:150:ILE:HG13	2.13	0.49
1:C:84:VAL:N	1:C:85:PRO:CD	2.75	0.49
1:C:86:LEU:C	1:C:90:LEU:HD13	2.33	0.49
1:D:154:ILE:CG1	1:D:156:PRO:HD2	2.33	0.49
1:D:169:ALA:O	1:D:172:THR:OG1	2.28	0.49
1:D:62:LYS:O	1:D:62:LYS:HG2	2.13	0.49
1:A:49:TRP:CZ3	1:A:104:TRP:HH2	2.30	0.49
1:B:205:LEU:HD12	1:B:205:LEU:H	1.77	0.49
1:C:22:LEU:O	1:C:25:VAL:HG22	2.13	0.49
1:C:52:TYR:CA	1:C:55:GLN:HG2	2.42	0.49
1:D:107:LYS:NZ	1:D:110:ARG:NH2	2.59	0.49
1:D:282:VAL:CG2	1:D:290:LEU:HD11	2.42	0.49
1:D:53:LEU:N	1:D:53:LEU:HD12	2.28	0.49
1:D:74:LYS:O	1:D:77:ILE:HB	2.13	0.49
1:A:150:ILE:HD12	1:A:151:GLU:N	2.28	0.49
1:A:53:LEU:HD12	1:A:53:LEU:N	2.28	0.49
1:B:125:GLU:CD	1:B:126:ALA:H	2.14	0.49
1:B:197:MET:C	1:B:200:ILE:HG12	2.33	0.49
1:B:223:PHE:CA	1:B:226:ASN:HD22	2.06	0.49
1:B:37:SER:HA	1:B:40:ALA:HB3	1.95	0.49
1:C:150:ILE:HD12	1:C:151:GLU:N	2.27	0.49
1:A:154:ILE:HG23	1:A:159:PHE:CD2	2.48	0.49
1:A:143:VAL:HG11	1:A:173:LEU:HD21	1.95	0.49
1:A:22:LEU:O	1:A:25:VAL:HG22	2.13	0.49
1:A:52:TYR:CA	1:A:55:GLN:HG2	2.42	0.49
1:A:62:LYS:O	1:A:62:LYS:HG2	2.13	0.49
1:A:84:VAL:N	1:A:85:PRO:CD	2.75	0.49
1:B:22:LEU:O	1:B:25:VAL:HG22	2.13	0.49
1:C:125:GLU:CD	1:C:126:ALA:H	2.14	0.49
1:C:141:PHE:CB	1:D:105:LEU:HD13	2.42	0.49
1:C:154:ILE:HG23	1:C:159:PHE:CD2	2.48	0.49
1:C:282:VAL:CG2	1:C:290:LEU:HD11	2.42	0.49
1:C:74:LYS:O	1:C:77:ILE:HB	2.13	0.49
1:D:301:LEU:HG	1:D:302:ILE:HD13	1.93	0.49
1:D:52:TYR:CA	1:D:55:GLN:HG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:86:LEU:C	1:A:90:LEU:HD13	2.33	0.49
1:B:150:ILE:HD12	1:B:151:GLU:N	2.28	0.49
1:B:87:ALA:HA	1:B:90:LEU:CD1	2.40	0.49
1:C:199:GLY:O	1:C:202:ILE:HG12	2.12	0.49
1:D:37:SER:HA	1:D:40:ALA:HB3	1.95	0.49
1:D:86:LEU:C	1:D:90:LEU:HD13	2.33	0.49
1:A:188:GLY:O	1:A:191:LEU:HG	2.13	0.49
1:A:205:LEU:HD12	1:A:205:LEU:H	1.77	0.49
1:A:37:SER:HA	1:A:40:ALA:HB3	1.95	0.49
1:B:143:VAL:HG11	1:B:173:LEU:HD21	1.95	0.49
1:B:74:LYS:O	1:B:77:ILE:HB	2.13	0.49
1:B:84:VAL:N	1:B:85:PRO:CD	2.75	0.49
1:C:104:TRP:CE3	1:C:107:LYS:HD2	2.47	0.49
1:C:131:GLY:HA3	1:D:113:THR:CG2	2.43	0.49
1:C:135:LEU:O	1:C:138:VAL:N	2.46	0.49
1:C:143:VAL:HG11	1:C:173:LEU:HD21	1.95	0.49
1:C:148:TYR:HA	1:C:152:ARG:HH12	1.73	0.49
1:C:95:PRO:O	1:C:98:SER:N	2.46	0.49
1:C:120:ARG:HE	1:D:1:MET:HB3	1.77	0.49
1:A:118:LEU:HA	1:A:121:VAL:HG23	1.95	0.48
1:A:48:ILE:O	1:A:51:ALA:HB3	2.13	0.48
1:B:135:LEU:O	1:B:138:VAL:HB	2.13	0.48
1:B:48:ILE:O	1:B:51:ALA:HB3	2.13	0.48
1:B:86:LEU:C	1:B:90:LEU:HD13	2.33	0.48
1:C:135:LEU:O	1:C:138:VAL:HB	2.13	0.48
1:C:48:ILE:O	1:C:51:ALA:HB3	2.13	0.48
1:C:80:LEU:O	1:C:84:VAL:HG22	2.13	0.48
1:D:150:ILE:HD12	1:D:151:GLU:N	2.27	0.48
1:D:48:ILE:O	1:D:51:ALA:HB3	2.13	0.48
1:A:282:VAL:CG2	1:A:290:LEU:HD11	2.42	0.48
1:A:29:THR:CB	1:D:162:ILE:HG21	2.43	0.48
1:A:95:PRO:O	1:A:98:SER:N	2.46	0.48
1:B:4:LEU:HD21	1:B:271:ARG:NE	2.28	0.48
1:B:80:LEU:O	1:B:84:VAL:HG22	2.13	0.48
1:C:197:MET:C	1:C:200:ILE:HG12	2.33	0.48
1:C:72:THR:O	1:C:75:ILE:HD12	2.14	0.48
1:D:147:ALA:HB1	1:D:165:ALA:HA	1.95	0.48
1:D:152:ARG:HA	1:D:160:GLY:CA	2.32	0.48
1:D:154:ILE:HG23	1:D:159:PHE:CD2	2.48	0.48
1:D:171:VAL:HG13	1:D:172:THR:N	2.27	0.48
1:D:22:LEU:O	1:D:25:VAL:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:ALA:HB1	1:A:165:ALA:HA	1.95	0.48
1:A:5:PRO:HB2	1:D:127:ARG:NH2	2.25	0.48
1:A:91:LEU:N	1:A:97:TRP:HZ3	2.08	0.48
1:A:245:VAL:HG22	1:B:329:MET:CE	2.43	0.48
1:C:62:LYS:O	1:C:62:LYS:HG2	2.13	0.48
1:C:91:LEU:CG	1:C:93:GLY:H	2.13	0.48
1:D:135:LEU:O	1:D:138:VAL:N	2.46	0.48
1:D:143:VAL:HG11	1:D:173:LEU:HD21	1.95	0.48
1:A:135:LEU:O	1:A:138:VAL:N	2.46	0.48
1:B:188:GLY:O	1:B:191:LEU:HG	2.13	0.48
1:B:282:VAL:CG2	1:B:290:LEU:HD11	2.42	0.48
1:C:53:LEU:HD12	1:C:53:LEU:N	2.28	0.48
1:D:117:VAL:HG23	1:D:118:LEU:N	2.29	0.48
1:A:135:LEU:O	1:A:138:VAL:HB	2.13	0.48
1:B:154:ILE:HG23	1:B:159:PHE:CD2	2.48	0.48
1:C:117:VAL:HG23	1:C:118:LEU:N	2.29	0.48
1:D:223:PHE:CA	1:D:226:ASN:HD22	2.06	0.48
1:A:4:LEU:HD21	1:A:271:ARG:NE	2.28	0.48
1:B:154:ILE:CG1	1:B:156:PRO:HD2	2.33	0.48
1:B:62:LYS:O	1:B:62:LYS:HG2	2.13	0.48
1:C:116:PRO:C	1:C:119:GLY:H	2.17	0.48
1:D:147:ALA:O	1:D:150:ILE:HG13	2.13	0.48
1:D:188:GLY:O	1:D:191:LEU:HG	2.13	0.48
1:A:120:ARG:HD3	1:A:123:ALA:CB	2.36	0.48
1:B:53:LEU:HD12	1:B:53:LEU:N	2.28	0.48
1:C:251:LEU:HD22	1:C:320:LEU:HB3	1.96	0.48
1:D:49:TRP:CZ3	1:D:104:TRP:HH2	2.30	0.48
1:D:80:LEU:O	1:D:84:VAL:HG22	2.13	0.48
1:B:147:ALA:HB1	1:B:165:ALA:HA	1.95	0.48
1:B:251:LEU:HD22	1:B:320:LEU:HB3	1.96	0.48
1:D:135:LEU:O	1:D:138:VAL:HB	2.13	0.48
1:A:29:THR:CG2	1:D:162:ILE:HG21	2.44	0.48
1:D:72:THR:O	1:D:75:ILE:HD12	2.14	0.48
1:A:29:THR:HB	1:D:162:ILE:CB	2.43	0.48
1:C:49:TRP:CH2	1:C:86:LEU:HD21	2.49	0.48
1:D:49:TRP:CH2	1:D:86:LEU:HD21	2.49	0.48
1:A:13:LEU:C	1:A:13:LEU:HD12	2.35	0.48
1:A:230:VAL:O	1:A:236:PHE:HD2	1.97	0.48
1:B:117:VAL:HG23	1:B:118:LEU:N	2.29	0.48
1:C:147:ALA:HB1	1:C:165:ALA:HA	1.95	0.48
1:D:125:GLU:CD	1:D:126:ALA:H	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:GLY:HA3	1:B:113:THR:HG22	1.96	0.47
1:A:162:ILE:CB	1:B:29:THR:HB	2.43	0.47
1:A:206:TRP:CZ3	1:A:210:LEU:CD2	2.90	0.47
1:A:5:PRO:HA	1:A:254:ARG:HB2	1.96	0.47
1:B:135:LEU:O	1:B:138:VAL:N	2.46	0.47
1:B:13:LEU:O	1:B:16:VAL:N	2.47	0.47
1:B:201:GLY:HA2	1:C:206:TRP:CZ3	2.49	0.47
1:B:95:PRO:O	1:B:98:SER:N	2.46	0.47
1:C:188:GLY:O	1:C:191:LEU:HG	2.13	0.47
1:A:167:TRP:CB	1:D:189:ARG:HH22	2.27	0.47
1:D:95:PRO:O	1:D:98:SER:N	2.46	0.47
1:A:177:GLY:C	1:B:178:TYR:HB3	2.34	0.47
1:B:200:ILE:O	1:B:203:PHE:HB2	2.14	0.47
1:B:5:PRO:HA	1:B:254:ARG:HB2	1.96	0.47
1:C:4:LEU:HD21	1:C:271:ARG:NE	2.28	0.47
1:A:145:LEU:HD12	1:A:146:ALA:H	1.78	0.47
1:B:245:VAL:HG22	1:C:329:MET:SD	2.55	0.47
1:C:230:VAL:O	1:C:236:PHE:HD2	1.97	0.47
1:D:13:LEU:O	1:D:16:VAL:N	2.47	0.47
1:A:201:GLY:O	1:A:205:LEU:HD12	2.14	0.47
1:A:325:ALA:HB2	1:D:227:TRP:CE2	2.49	0.47
1:A:162:ILE:HG21	1:B:29:THR:CB	2.44	0.47
1:B:52:TYR:CA	1:B:55:GLN:HG2	2.42	0.47
1:B:91:LEU:N	1:B:97:TRP:HZ3	2.08	0.47
1:D:116:PRO:C	1:D:119:GLY:H	2.17	0.47
1:D:13:LEU:HD12	1:D:13:LEU:C	2.35	0.47
1:D:4:LEU:HD21	1:D:271:ARG:NE	2.28	0.47
1:A:251:LEU:HD22	1:A:320:LEU:HB3	1.96	0.47
1:B:49:TRP:CH2	1:B:86:LEU:HD21	2.49	0.47
1:C:255:THR:OG1	1:C:317:VAL:O	2.28	0.47
1:D:103:VAL:O	1:D:106:LEU:HG	2.15	0.47
1:D:104:TRP:O	1:D:106:LEU:N	2.48	0.47
1:D:201:GLY:O	1:D:205:LEU:HD12	2.15	0.47
1:D:230:VAL:O	1:D:236:PHE:HD2	1.97	0.47
1:A:212:THR:O	1:A:216:GLN:HG2	2.15	0.47
1:B:104:TRP:O	1:B:106:LEU:N	2.48	0.47
1:B:189:ARG:NH1	1:C:167:TRP:CA	2.73	0.47
1:A:120:ARG:HE	1:B:1:MET:HB3	1.79	0.47
1:B:56:LEU:HD11	1:B:82:VAL:HG11	1.96	0.47
1:B:13:LEU:HD12	1:B:13:LEU:C	2.35	0.47
1:B:162:ILE:CD1	1:B:166:MET:HE2	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:197:MET:HA	1:B:200:ILE:CG1	2.45	0.47
1:C:197:MET:HA	1:C:200:ILE:CG1	2.45	0.47
1:C:212:THR:O	1:C:216:GLN:HG2	2.15	0.47
1:D:197:MET:HA	1:D:200:ILE:CG1	2.45	0.47
1:D:200:ILE:O	1:D:203:PHE:HB2	2.14	0.47
1:A:197:MET:HA	1:A:200:ILE:CG1	2.45	0.47
1:A:72:THR:O	1:A:75:ILE:HD12	2.14	0.47
1:A:49:TRP:CH2	1:A:86:LEU:HD21	2.49	0.47
1:B:255:THR:OG1	1:B:317:VAL:O	2.28	0.47
1:C:13:LEU:O	1:C:16:VAL:N	2.47	0.47
1:D:212:THR:O	1:D:216:GLN:HG2	2.15	0.47
1:D:55:GLN:HG3	1:D:56:LEU:N	2.30	0.47
1:D:56:LEU:HD11	1:D:82:VAL:HG11	1.96	0.47
1:A:200:ILE:O	1:A:203:PHE:HB2	2.14	0.47
1:B:139:VAL:HG13	1:B:140:LEU:N	2.30	0.47
1:B:55:GLN:HG3	1:B:56:LEU:N	2.30	0.47
1:B:72:THR:O	1:B:75:ILE:HD12	2.14	0.47
1:C:189:ARG:HH22	1:D:167:TRP:CB	2.28	0.47
1:C:200:ILE:O	1:C:203:PHE:HB2	2.14	0.47
1:D:139:VAL:HG13	1:D:140:LEU:N	2.30	0.47
1:A:167:TRP:HB2	1:D:189:ARG:HH22	1.79	0.47
1:D:251:LEU:HD22	1:D:320:LEU:HB3	1.96	0.47
1:A:104:TRP:O	1:A:106:LEU:N	2.48	0.47
1:A:117:VAL:HG23	1:A:118:LEU:N	2.29	0.47
1:B:230:VAL:O	1:B:236:PHE:HD2	1.97	0.47
1:C:13:LEU:HD12	1:C:13:LEU:C	2.35	0.47
1:C:201:GLY:O	1:C:205:LEU:HD12	2.15	0.47
1:C:5:PRO:HA	1:C:254:ARG:HB2	1.96	0.47
1:D:145:LEU:HD12	1:D:146:ALA:H	1.78	0.47
1:A:139:VAL:HG13	1:A:140:LEU:N	2.30	0.47
1:B:190:VAL:HG13	1:B:191:LEU:N	2.30	0.47
1:B:212:THR:O	1:B:216:GLN:HG2	2.15	0.47
1:B:42:ALA:HA	1:B:45:LEU:HB3	1.97	0.47
1:C:162:ILE:N	1:C:163:PRO:CD	2.78	0.47
1:C:56:LEU:HD11	1:C:82:VAL:HG11	1.96	0.47
1:A:206:TRP:CD2	1:D:197:MET:CE	2.98	0.47
1:B:116:PRO:C	1:B:119:GLY:H	2.17	0.46
1:B:162:ILE:N	1:B:163:PRO:CD	2.78	0.46
1:C:97:TRP:CD1	1:C:98:SER:N	2.84	0.46
1:D:118:LEU:HA	1:D:121:VAL:HG23	1.95	0.46
1:C:189:ARG:NH2	1:D:167:TRP:HB2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:190:VAL:HG13	1:D:191:LEU:N	2.30	0.46
1:D:91:LEU:CG	1:D:93:GLY:H	2.13	0.46
1:A:103:VAL:O	1:A:106:LEU:HG	2.15	0.46
1:A:56:LEU:HD11	1:A:82:VAL:HG11	1.96	0.46
1:B:52:TYR:CD1	1:B:52:TYR:N	2.80	0.46
1:B:89:PHE:CA	1:B:97:TRP:HH2	2.27	0.46
1:C:104:TRP:O	1:C:106:LEU:N	2.48	0.46
1:D:5:PRO:HA	1:D:254:ARG:HB2	1.96	0.46
1:D:97:TRP:CD1	1:D:98:SER:N	2.83	0.46
1:C:103:VAL:O	1:C:106:LEU:HG	2.15	0.46
1:C:190:VAL:HG13	1:C:191:LEU:N	2.30	0.46
1:C:85:PRO:CG	1:C:104:TRP:CZ2	2.99	0.46
1:C:220:ARG:HD3	1:D:1:MET:SD	2.55	0.46
1:B:49:TRP:NE1	1:B:53:LEU:HD11	2.30	0.46
1:D:155:GLN:N	1:D:156:PRO:CD	2.79	0.46
1:D:49:TRP:NE1	1:D:53:LEU:HD11	2.30	0.46
1:A:85:PRO:CG	1:A:104:TRP:CZ2	2.99	0.46
1:A:28:LEU:O	1:A:28:LEU:HD23	2.16	0.46
1:B:103:VAL:O	1:B:106:LEU:HG	2.15	0.46
1:B:97:TRP:CD1	1:B:98:SER:N	2.84	0.46
1:C:139:VAL:HG13	1:C:140:LEU:N	2.30	0.46
1:C:267:GLU:C	1:C:307:ARG:HH21	2.19	0.46
1:A:13:LEU:O	1:A:16:VAL:N	2.47	0.46
1:A:190:VAL:HG13	1:A:191:LEU:N	2.30	0.46
1:A:206:TRP:CZ3	1:D:201:GLY:HA2	2.50	0.46
1:A:42:ALA:HA	1:A:45:LEU:HB3	1.97	0.46
1:A:55:GLN:HG3	1:A:56:LEU:N	2.30	0.46
1:A:91:LEU:CG	1:A:93:GLY:H	2.13	0.46
1:A:89:PHE:CA	1:A:97:TRP:HH2	2.27	0.46
1:B:201:GLY:O	1:B:205:LEU:HD12	2.15	0.46
1:C:118:LEU:HA	1:C:121:VAL:HG23	1.95	0.46
1:D:45:LEU:HA	1:D:48:ILE:CG1	2.46	0.46
1:D:52:TYR:N	1:D:52:TYR:CD1	2.80	0.46
1:A:45:LEU:HA	1:A:48:ILE:CG1	2.46	0.46
1:C:155:GLN:N	1:C:156:PRO:CD	2.79	0.46
1:C:189:ARG:HH22	1:D:167:TRP:HB2	1.80	0.46
1:D:28:LEU:O	1:D:28:LEU:HD23	2.16	0.46
1:D:42:ALA:HA	1:D:45:LEU:HB3	1.97	0.46
1:A:97:TRP:CD1	1:A:98:SER:N	2.83	0.46
1:B:38:ARG:O	1:B:42:ALA:CB	2.64	0.46
1:C:21:GLY:O	1:C:25:VAL:HG13	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:49:TRP:NE1	1:C:53:LEU:HD11	2.30	0.46
1:D:267:GLU:C	1:D:307:ARG:HH21	2.19	0.46
1:B:230:VAL:CG1	1:B:231:ALA:H	2.28	0.46
1:C:206:TRP:CZ3	1:C:210:LEU:CD2	2.90	0.46
1:D:162:ILE:N	1:D:163:PRO:CD	2.78	0.46
1:D:40:ALA:O	1:D:43:ALA:HB3	2.16	0.46
1:B:120:ARG:HG2	1:B:217:GLU:OE1	2.16	0.46
1:B:38:ARG:O	1:B:42:ALA:HB3	2.16	0.46
1:A:155:GLN:N	1:A:156:PRO:CD	2.79	0.45
1:A:162:ILE:N	1:A:163:PRO:CD	2.78	0.45
1:A:38:ARG:O	1:A:42:ALA:HB3	2.16	0.45
1:B:21:GLY:O	1:B:25:VAL:HG13	2.16	0.45
1:B:28:LEU:O	1:B:28:LEU:HD23	2.16	0.45
1:B:84:VAL:CG2	1:B:85:PRO:CD	2.94	0.45
1:C:16:VAL:O	1:C:20:PRO:HD3	2.16	0.45
1:C:189:ARG:NH1	1:D:167:TRP:HB3	2.25	0.45
1:A:17:LEU:HD23	1:A:110:ARG:HG3	1.98	0.45
1:A:272:MET:N	1:A:321:SER:OG	2.50	0.45
1:A:325:ALA:O	1:A:329:MET:HG3	2.17	0.45
1:B:85:PRO:CG	1:B:104:TRP:CZ2	2.99	0.45
1:B:245:VAL:HG22	1:C:329:MET:CE	2.47	0.45
1:B:267:GLU:C	1:B:307:ARG:HH21	2.19	0.45
1:B:325:ALA:O	1:B:329:MET:HG3	2.17	0.45
1:C:81:ALA:HA	1:C:106:LEU:HD11	1.99	0.45
1:C:55:GLN:HG3	1:C:56:LEU:N	2.30	0.45
1:D:16:VAL:O	1:D:20:PRO:HD3	2.16	0.45
1:C:52:TYR:N	1:C:52:TYR:CD1	2.80	0.45
1:D:120:ARG:HG2	1:D:217:GLU:OE1	2.16	0.45
1:A:167:TRP:HB2	1:D:189:ARG:NH2	2.32	0.45
1:D:228:GLN:O	1:D:232:ALA:HB2	2.17	0.45
1:D:272:MET:N	1:D:321:SER:OG	2.49	0.45
1:D:38:ARG:O	1:D:42:ALA:HB3	2.16	0.45
1:A:262:ILE:HB	1:A:311:VAL:HG23	1.99	0.45
1:A:81:ALA:HA	1:A:106:LEU:HD11	1.99	0.45
1:B:296:PHE:HZ	1:B:309:ALA:HB3	1.81	0.45
1:C:158:LYS:HE2	1:C:159:PHE:CE2	2.51	0.45
1:C:38:ARG:O	1:C:42:ALA:HB3	2.16	0.45
1:A:116:PRO:C	1:A:119:GLY:H	2.17	0.45
1:A:120:ARG:HG2	1:A:217:GLU:OE1	2.16	0.45
1:A:228:GLN:O	1:A:232:ALA:HB2	2.17	0.45
1:A:87:ALA:HA	1:A:90:LEU:CD1	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:23:LEU:HD22	1:B:44:LEU:HB2	1.99	0.45
1:C:114:PHE:O	1:C:117:VAL:HG22	2.17	0.45
1:C:120:ARG:HG2	1:C:217:GLU:OE1	2.16	0.45
1:C:133:THR:O	1:C:136:PHE:HB2	2.17	0.45
1:B:120:ARG:HE	1:C:1:MET:HB3	1.81	0.45
1:C:49:TRP:CE3	1:C:52:TYR:HB2	2.51	0.45
1:D:133:THR:O	1:D:136:PHE:HB2	2.17	0.45
1:D:21:GLY:O	1:D:25:VAL:HG13	2.16	0.45
1:D:85:PRO:CG	1:D:104:TRP:CZ2	2.99	0.45
1:B:114:PHE:O	1:B:117:VAL:HG22	2.17	0.45
1:B:155:GLN:N	1:B:156:PRO:CD	2.79	0.45
1:B:298:GLU:HA	1:B:301:LEU:HB3	1.99	0.45
1:C:28:LEU:O	1:C:28:LEU:HD23	2.16	0.45
1:C:45:LEU:HA	1:C:48:ILE:CG1	2.46	0.45
1:D:81:ALA:HA	1:D:106:LEU:HD11	1.99	0.45
1:A:207:ALA:O	1:A:210:LEU:N	2.50	0.45
1:A:49:TRP:NE1	1:A:53:LEU:HD11	2.30	0.45
1:A:205:LEU:CA	1:B:214:PHE:HZ	2.20	0.45
1:B:45:LEU:HA	1:B:48:ILE:CG1	2.46	0.45
1:B:81:ALA:HA	1:B:106:LEU:HD11	1.99	0.45
1:C:124:ASN:OD1	1:C:125:GLU:N	2.50	0.45
1:C:272:MET:HG2	1:C:322:LEU:HB3	1.99	0.45
1:C:298:GLU:HA	1:C:301:LEU:HB3	1.99	0.45
1:C:296:PHE:HZ	1:C:309:ALA:HB3	1.81	0.45
1:D:207:ALA:O	1:D:210:LEU:N	2.50	0.45
1:A:296:PHE:HZ	1:A:309:ALA:HB3	1.81	0.45
1:B:133:THR:O	1:B:136:PHE:HB2	2.17	0.45
1:A:197:MET:CE	1:B:206:TRP:CD2	3.00	0.45
1:B:83:LEU:O	1:B:86:LEU:CB	2.65	0.45
1:C:325:ALA:O	1:C:329:MET:HG3	2.17	0.45
1:C:42:ALA:HA	1:C:45:LEU:HB3	1.97	0.45
1:C:89:PHE:CA	1:C:97:TRP:HH2	2.27	0.45
1:A:113:THR:HG22	1:D:131:GLY:HA3	1.99	0.45
1:D:220:ARG:HA	1:D:223:PHE:CE2	2.51	0.45
1:D:38:ARG:O	1:D:42:ALA:CB	2.64	0.45
1:A:187:ALA:HA	1:A:190:VAL:HG12	1.99	0.45
1:A:298:GLU:HA	1:A:301:LEU:HB3	1.99	0.45
1:A:38:ARG:O	1:A:42:ALA:CB	2.64	0.45
1:A:40:ALA:O	1:A:43:ALA:HB3	2.16	0.45
1:A:96:ASP:O	1:A:99:LEU:HB2	2.17	0.45
1:B:197:MET:CE	1:C:206:TRP:CD2	2.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:253:ALA:HB3	1:B:320:LEU:HA	1.99	0.45
1:C:23:LEU:HD22	1:C:44:LEU:HB2	1.99	0.45
1:C:38:ARG:O	1:C:42:ALA:CB	2.64	0.45
1:D:114:PHE:O	1:D:117:VAL:HG22	2.17	0.45
1:D:158:LYS:HE2	1:D:159:PHE:CE2	2.51	0.45
1:D:49:TRP:CE3	1:D:52:TYR:HB2	2.51	0.45
1:D:56:LEU:O	1:D:59:THR:N	2.50	0.45
1:D:87:ALA:HA	1:D:90:LEU:CB	2.43	0.45
1:A:199:GLY:O	1:A:202:ILE:CG1	2.65	0.45
1:A:21:GLY:O	1:A:25:VAL:HG13	2.16	0.45
1:B:152:ARG:HH22	1:B:162:ILE:HD12	1.82	0.45
1:A:189:ARG:HH22	1:B:167:TRP:CB	2.30	0.45
1:B:207:ALA:O	1:B:210:LEU:N	2.50	0.45
1:B:49:TRP:CE3	1:B:52:TYR:HB2	2.52	0.45
1:B:96:ASP:O	1:B:99:LEU:HB2	2.17	0.45
1:D:49:TRP:HZ3	1:D:104:TRP:HH2	1.65	0.45
1:D:296:PHE:HZ	1:D:309:ALA:HB3	1.81	0.45
1:A:49:TRP:HZ3	1:A:104:TRP:HH2	1.64	0.44
1:A:124:ASN:OD1	1:A:125:GLU:N	2.50	0.44
1:A:267:GLU:C	1:A:307:ARG:HH21	2.19	0.44
1:B:117:VAL:HG23	1:B:118:LEU:H	1.82	0.44
1:B:124:ASN:OD1	1:B:125:GLU:N	2.50	0.44
1:B:129:LEU:HA	1:B:132:VAL:HG12	1.99	0.44
1:B:158:LYS:HE2	1:B:159:PHE:CE2	2.51	0.44
1:B:228:GLN:O	1:B:232:ALA:HB2	2.17	0.44
1:B:272:MET:N	1:B:321:SER:OG	2.49	0.44
1:B:6:PHE:CE2	1:B:260:ALA:HB2	2.53	0.44
1:C:152:ARG:HH22	1:C:162:ILE:HD12	1.82	0.44
1:C:205:LEU:N	1:C:205:LEU:HD12	2.32	0.44
1:C:228:GLN:O	1:C:232:ALA:HB2	2.17	0.44
1:C:91:LEU:N	1:C:97:TRP:HZ3	2.08	0.44
1:D:187:ALA:HA	1:D:190:VAL:HG12	1.99	0.44
1:D:262:ILE:HB	1:D:311:VAL:HG23	1.99	0.44
1:B:205:LEU:HD12	1:B:205:LEU:N	2.32	0.44
1:C:6:PHE:CE2	1:C:260:ALA:HB2	2.53	0.44
1:D:298:GLU:HA	1:D:301:LEU:HB3	1.99	0.44
1:A:139:VAL:HG22	1:A:173:LEU:CD2	2.47	0.44
1:A:162:ILE:HG21	1:B:29:THR:CG2	2.44	0.44
1:A:206:TRP:CD2	1:D:197:MET:HE1	2.51	0.44
1:A:49:TRP:CE3	1:A:49:TRP:HA	2.53	0.44
1:B:145:LEU:HD12	1:B:146:ALA:H	1.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:189:ARG:NH1	1:B:167:TRP:CB	2.76	0.44
1:B:16:VAL:O	1:B:20:PRO:HD3	2.16	0.44
1:C:117:VAL:HG23	1:C:118:LEU:H	1.82	0.44
1:C:296:PHE:CZ	1:C:309:ALA:HB3	2.53	0.44
1:D:230:VAL:CG1	1:D:231:ALA:N	2.80	0.44
1:D:296:PHE:CZ	1:D:309:ALA:HB3	2.52	0.44
1:D:325:ALA:O	1:D:329:MET:HG3	2.17	0.44
1:D:6:PHE:CE2	1:D:260:ALA:HB2	2.53	0.44
1:A:152:ARG:HH22	1:A:162:ILE:HD12	1.82	0.44
1:A:220:ARG:HA	1:A:223:PHE:CE2	2.51	0.44
1:A:49:TRP:CE3	1:A:52:TYR:HB2	2.51	0.44
1:A:52:TYR:CD1	1:A:52:TYR:N	2.80	0.44
1:B:139:VAL:HG22	1:B:173:LEU:CD2	2.47	0.44
1:B:23:LEU:HB2	1:B:41:LEU:HB3	1.99	0.44
1:C:189:ARG:NH1	1:D:167:TRP:CA	2.75	0.44
1:C:96:ASP:O	1:C:99:LEU:HB2	2.17	0.44
1:D:96:ASP:O	1:D:99:LEU:HB2	2.17	0.44
1:A:114:PHE:O	1:A:117:VAL:HG22	2.17	0.44
1:A:117:VAL:HG23	1:A:118:LEU:H	1.82	0.44
1:A:158:LYS:HE2	1:A:159:PHE:CE2	2.51	0.44
1:A:16:VAL:O	1:A:20:PRO:HD3	2.16	0.44
1:A:178:TYR:HB3	1:D:177:GLY:C	2.36	0.44
1:A:183:PRO:HG2	1:A:189:ARG:N	2.33	0.44
1:B:272:MET:HG2	1:B:322:LEU:HB3	1.99	0.44
1:C:40:ALA:O	1:C:43:ALA:HB3	2.16	0.44
1:C:79:VAL:HG13	1:C:80:LEU:N	2.33	0.44
1:D:152:ARG:HH22	1:D:162:ILE:HD12	1.82	0.44
1:D:49:TRP:HA	1:D:49:TRP:CE3	2.53	0.44
1:D:87:ALA:CA	1:D:90:LEU:HB2	2.44	0.44
1:A:133:THR:O	1:A:136:PHE:HB2	2.17	0.44
1:A:168:TRP:CZ3	1:A:181:THR:O	2.71	0.44
1:A:230:VAL:CG1	1:A:231:ALA:H	2.28	0.44
1:A:6:PHE:CE2	1:A:260:ALA:HB2	2.53	0.44
1:A:79:VAL:HG13	1:A:80:LEU:N	2.33	0.44
1:A:84:VAL:CG2	1:A:85:PRO:CD	2.94	0.44
1:B:199:GLY:O	1:B:202:ILE:CG1	2.65	0.44
1:C:17:LEU:HD23	1:C:110:ARG:HG3	1.98	0.44
1:C:129:LEU:HA	1:C:132:VAL:HG12	1.99	0.44
1:C:207:ALA:O	1:C:210:LEU:N	2.50	0.44
1:C:262:ILE:HB	1:C:311:VAL:HG23	1.99	0.44
1:C:272:MET:N	1:C:321:SER:OG	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:117:VAL:HG23	1:D:118:LEU:H	1.82	0.44
1:D:139:VAL:HG22	1:D:173:LEU:CD2	2.47	0.44
1:D:205:LEU:N	1:D:205:LEU:HD12	2.32	0.44
1:D:89:PHE:CA	1:D:97:TRP:HH2	2.27	0.44
1:A:253:ALA:HB3	1:A:320:LEU:HA	1.99	0.44
1:A:295:PHE:CE1	1:A:344:THR:HG23	2.53	0.44
1:B:40:ALA:O	1:B:43:ALA:HB3	2.16	0.44
1:B:49:TRP:CE3	1:B:49:TRP:HA	2.53	0.44
1:C:224:VAL:HG23	1:C:225:ARG:N	2.33	0.44
1:C:56:LEU:O	1:C:59:THR:N	2.50	0.44
1:D:17:LEU:HD21	1:D:110:ARG:HG3	2.00	0.44
1:D:124:ASN:OD1	1:D:125:GLU:N	2.50	0.44
1:D:191:LEU:O	1:D:194:ALA:HB3	2.18	0.44
1:D:253:ALA:HB3	1:D:320:LEU:HA	1.99	0.44
1:A:17:LEU:HD21	1:A:110:ARG:HG3	2.00	0.44
1:B:17:LEU:HD23	1:B:110:ARG:HG3	1.98	0.44
1:B:183:PRO:HG2	1:B:189:ARG:N	2.33	0.44
1:B:187:ALA:HA	1:B:190:VAL:HG12	1.99	0.44
1:B:310:THR:CG2	1:B:311:VAL:N	2.81	0.44
1:C:139:VAL:HG22	1:C:173:LEU:CD2	2.47	0.44
1:C:199:GLY:O	1:C:202:ILE:CG1	2.65	0.44
1:C:295:PHE:CE1	1:C:344:THR:HG23	2.53	0.44
1:D:199:GLY:O	1:D:202:ILE:CG1	2.65	0.44
1:D:206:TRP:CZ3	1:D:210:LEU:CD2	2.90	0.44
1:D:295:PHE:CE1	1:D:344:THR:HG23	2.53	0.44
1:D:23:LEU:HD22	1:D:44:LEU:HB2	1.99	0.44
1:A:150:ILE:O	1:A:153:ASP:CB	2.66	0.44
1:A:191:LEU:O	1:A:194:ALA:HB3	2.18	0.44
1:B:162:ILE:HG21	1:C:29:THR:CB	2.48	0.44
1:C:168:TRP:CZ3	1:C:181:THR:O	2.71	0.44
1:C:281:SER:OG	1:C:312:SER:O	2.32	0.44
1:C:52:TYR:O	1:C:55:GLN:HG2	2.18	0.44
1:D:230:VAL:CG1	1:D:231:ALA:H	2.28	0.44
1:A:114:PHE:C	1:A:117:VAL:HG22	2.39	0.43
1:A:205:LEU:N	1:A:205:LEU:HD12	2.32	0.43
1:B:114:PHE:C	1:B:117:VAL:HG22	2.39	0.43
1:B:49:TRP:HZ3	1:B:104:TRP:HH2	1.65	0.43
1:C:114:PHE:C	1:C:117:VAL:HG22	2.39	0.43
1:C:23:LEU:CD1	1:C:41:LEU:HB3	2.44	0.43
1:D:114:PHE:C	1:D:117:VAL:HG22	2.39	0.43
1:D:17:LEU:HD23	1:D:110:ARG:HG3	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:170:VAL:HG11	1:D:189:ARG:NH1	2.33	0.43
1:A:23:LEU:HB2	1:A:41:LEU:HB3	1.99	0.43
1:A:52:TYR:O	1:A:55:GLN:HG2	2.18	0.43
1:B:220:ARG:HA	1:B:223:PHE:CE2	2.51	0.43
1:B:79:VAL:HG13	1:B:80:LEU:N	2.33	0.43
1:C:145:LEU:HD12	1:C:146:ALA:H	1.78	0.43
1:C:220:ARG:HA	1:C:223:PHE:CE2	2.51	0.43
1:D:13:LEU:HD12	1:D:14:ASN:HA	2.00	0.43
1:D:150:ILE:O	1:D:153:ASP:CB	2.66	0.43
1:D:183:PRO:HG2	1:D:189:ARG:N	2.33	0.43
1:D:272:MET:HG2	1:D:322:LEU:HB3	1.99	0.43
1:D:56:LEU:CG	1:D:82:VAL:HG11	2.48	0.43
1:A:56:LEU:CG	1:A:82:VAL:HG11	2.48	0.43
1:B:118:LEU:HA	1:B:121:VAL:HG23	1.95	0.43
1:B:168:TRP:CZ3	1:B:181:THR:O	2.71	0.43
1:B:56:LEU:CG	1:B:82:VAL:HG11	2.48	0.43
1:C:129:LEU:C	1:C:132:VAL:HG12	2.39	0.43
1:C:83:LEU:O	1:C:86:LEU:CB	2.65	0.43
1:C:84:VAL:CG2	1:C:85:PRO:CD	2.94	0.43
1:D:224:VAL:HG23	1:D:225:ARG:N	2.33	0.43
1:D:79:VAL:HG13	1:D:80:LEU:N	2.33	0.43
1:A:129:LEU:C	1:A:132:VAL:HG12	2.39	0.43
1:A:141:PHE:HB2	1:B:105:LEU:CD1	2.46	0.43
1:A:272:MET:HG2	1:A:322:LEU:HB3	1.99	0.43
1:A:296:PHE:CZ	1:A:309:ALA:HB3	2.53	0.43
1:A:265:ILE:N	1:A:310:THR:OG1	2.51	0.43
1:A:23:LEU:HD22	1:A:44:LEU:HB2	1.99	0.43
1:B:191:LEU:O	1:B:194:ALA:HB3	2.18	0.43
1:C:187:ALA:HA	1:C:190:VAL:HG12	1.99	0.43
1:C:23:LEU:HB2	1:C:41:LEU:HB3	1.99	0.43
1:C:49:TRP:HA	1:C:49:TRP:CE3	2.53	0.43
1:C:49:TRP:HZ3	1:C:104:TRP:HH2	1.65	0.43
1:D:168:TRP:CZ3	1:D:181:THR:O	2.71	0.43
1:D:281:SER:N	1:D:312:SER:O	2.37	0.43
1:A:129:LEU:HA	1:A:132:VAL:HG12	1.99	0.43
1:A:246:GLU:O	1:A:250:ALA:HB2	2.19	0.43
1:B:295:PHE:CE1	1:B:344:THR:HG23	2.53	0.43
1:C:190:VAL:HG13	1:C:191:LEU:H	1.84	0.43
1:C:223:PHE:CE1	1:D:323:HIS:HE1	2.36	0.43
1:A:132:VAL:HG13	1:A:133:THR:N	2.34	0.43
1:A:87:ALA:HA	1:A:90:LEU:CB	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:17:LEU:HD21	1:B:110:ARG:HG3	2.00	0.43
1:B:129:LEU:C	1:B:132:VAL:HG12	2.39	0.43
1:B:224:VAL:HG23	1:B:225:ARG:N	2.33	0.43
1:B:265:ILE:N	1:B:310:THR:OG1	2.51	0.43
1:B:262:ILE:HB	1:B:311:VAL:HG23	1.99	0.43
1:B:83:LEU:N	1:B:85:PRO:HD2	2.34	0.43
1:D:247:ILE:HG13	1:D:248:VAL:N	2.34	0.43
1:D:52:TYR:O	1:D:55:GLN:HG2	2.19	0.43
1:D:63:ARG:HG3	1:D:64:ARG:N	2.34	0.43
1:A:85:PRO:CB	1:A:104:TRP:CE2	3.02	0.43
1:B:13:LEU:HD12	1:B:14:ASN:HA	2.00	0.43
1:B:150:ILE:O	1:B:153:ASP:CB	2.66	0.43
1:C:183:PRO:HG2	1:C:189:ARG:N	2.33	0.43
1:C:42:ALA:HA	1:C:45:LEU:CB	2.49	0.43
1:C:52:TYR:C	1:C:55:GLN:HG2	2.39	0.43
1:D:129:LEU:C	1:D:132:VAL:HG12	2.39	0.43
1:D:23:LEU:HB2	1:D:41:LEU:HB3	1.99	0.43
1:A:219:ARG:HA	1:A:219:ARG:HD3	1.82	0.43
1:A:224:VAL:HG23	1:A:225:ARG:N	2.33	0.43
1:A:247:ILE:HG13	1:A:248:VAL:N	2.34	0.43
1:A:310:THR:CG2	1:A:311:VAL:N	2.81	0.43
1:B:85:PRO:CB	1:B:104:TRP:CE2	3.02	0.43
1:C:265:ILE:N	1:C:310:THR:OG1	2.51	0.43
1:C:56:LEU:CG	1:C:82:VAL:HG11	2.48	0.43
1:D:129:LEU:HA	1:D:132:VAL:HG12	1.99	0.43
1:A:230:VAL:CG1	1:A:231:ALA:N	2.80	0.43
1:A:265:ILE:HD12	1:A:309:ALA:HA	2.01	0.43
1:B:296:PHE:CZ	1:B:309:ALA:HB3	2.53	0.43
1:B:56:LEU:O	1:B:59:THR:N	2.50	0.43
1:B:63:ARG:HG3	1:B:64:ARG:N	2.34	0.43
1:C:17:LEU:HD21	1:C:110:ARG:HG3	2.00	0.43
1:C:191:LEU:O	1:C:194:ALA:HB3	2.18	0.43
1:C:189:ARG:O	1:C:192:ALA:CB	2.67	0.43
1:B:162:ILE:HB	1:C:29:THR:HB	2.01	0.43
1:D:148:TYR:CA	1:D:152:ARG:NH1	2.80	0.43
1:D:190:VAL:HG13	1:D:191:LEU:H	1.84	0.43
1:D:265:ILE:N	1:D:310:THR:OG1	2.51	0.43
1:D:52:TYR:C	1:D:55:GLN:HG2	2.39	0.43
1:D:84:VAL:CG2	1:D:85:PRO:CD	2.94	0.43
1:A:190:VAL:HG13	1:A:191:LEU:H	1.84	0.43
1:A:246:GLU:O	1:A:250:ALA:CB	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:63:ARG:HG3	1:A:64:ARG:N	2.34	0.43
1:B:105:LEU:O	1:B:108:PRO:CD	2.65	0.43
1:B:53:LEU:H	1:B:53:LEU:HD12	1.84	0.43
1:B:96:ASP:HA	1:B:99:LEU:HD12	2.01	0.43
1:C:246:GLU:O	1:C:250:ALA:HB2	2.19	0.43
1:C:246:GLU:O	1:C:250:ALA:CB	2.67	0.43
1:D:246:GLU:O	1:D:250:ALA:HB2	2.19	0.43
1:B:148:TYR:CA	1:B:152:ARG:NH1	2.80	0.42
1:B:42:ALA:HA	1:B:45:LEU:CB	2.49	0.42
1:A:201:GLY:HA2	1:B:206:TRP:CZ3	2.54	0.42
1:A:218:VAL:O	1:A:222:ASP:HB2	2.19	0.42
1:A:42:ALA:HA	1:A:45:LEU:CB	2.49	0.42
1:B:52:TYR:O	1:B:55:GLN:HG2	2.18	0.42
1:C:13:LEU:HD12	1:C:14:ASN:HA	2.00	0.42
1:C:91:LEU:O	1:C:97:TRP:CZ3	2.72	0.42
1:D:218:VAL:O	1:D:222:ASP:HB2	2.19	0.42
1:D:91:LEU:O	1:D:97:TRP:CZ3	2.72	0.42
1:A:105:LEU:O	1:A:108:PRO:CD	2.65	0.42
1:A:151:GLU:CD	1:A:164:GLN:HB2	2.40	0.42
1:B:86:LEU:O	1:B:90:LEU:HD13	2.19	0.42
1:C:132:VAL:O	1:C:136:PHE:CD2	2.73	0.42
1:C:253:ALA:HB3	1:C:320:LEU:HA	1.99	0.42
1:C:87:ALA:CA	1:C:90:LEU:HB2	2.44	0.42
1:D:87:ALA:N	1:D:90:LEU:HD13	2.34	0.42
1:A:189:ARG:O	1:A:192:ALA:CB	2.67	0.42
1:B:246:GLU:O	1:B:250:ALA:HB2	2.19	0.42
1:B:247:ILE:HG13	1:B:248:VAL:N	2.34	0.42
1:B:299:MET:SD	1:B:348:ARG:HG3	2.60	0.42
1:C:310:THR:CG2	1:C:311:VAL:N	2.81	0.42
1:C:53:LEU:HD12	1:C:53:LEU:H	1.84	0.42
1:D:109:LEU:HD12	1:D:114:PHE:CZ	2.55	0.42
1:D:151:GLU:CD	1:D:164:GLN:HB2	2.40	0.42
1:D:83:LEU:N	1:D:85:PRO:HD2	2.34	0.42
1:A:13:LEU:HD12	1:A:14:ASN:HA	2.00	0.42
1:A:49:TRP:CE2	1:A:53:LEU:CD1	2.99	0.42
1:A:52:TYR:C	1:A:55:GLN:HG2	2.39	0.42
1:A:96:ASP:HA	1:A:99:LEU:HD12	2.01	0.42
1:B:132:VAL:O	1:B:136:PHE:CD2	2.73	0.42
1:B:190:VAL:HG13	1:B:191:LEU:H	1.84	0.42
1:B:218:VAL:O	1:B:222:ASP:HB2	2.19	0.42
1:B:265:ILE:HD12	1:B:309:ALA:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:87:ALA:N	1:B:90:LEU:HD13	2.34	0.42
1:C:247:ILE:HG13	1:C:248:VAL:N	2.34	0.42
1:D:42:ALA:HA	1:D:45:LEU:CB	2.49	0.42
1:C:109:LEU:HD12	1:C:114:PHE:CZ	2.55	0.42
1:C:129:LEU:HD12	1:C:130:ILE:HD13	2.02	0.42
1:C:150:ILE:O	1:C:153:ASP:CB	2.66	0.42
1:C:151:GLU:CD	1:C:159:PHE:HD1	2.23	0.42
1:C:218:VAL:O	1:C:222:ASP:HB2	2.19	0.42
1:C:87:ALA:N	1:C:90:LEU:HD13	2.34	0.42
1:D:132:VAL:HG13	1:D:133:THR:N	2.34	0.42
1:A:23:LEU:CD1	1:A:41:LEU:HB3	2.45	0.42
1:A:86:LEU:O	1:A:90:LEU:HD13	2.19	0.42
1:A:87:ALA:CA	1:A:90:LEU:HB2	2.44	0.42
1:A:87:ALA:N	1:A:90:LEU:HD13	2.34	0.42
1:A:91:LEU:O	1:A:97:TRP:CZ3	2.72	0.42
1:B:151:GLU:CD	1:B:159:PHE:HD1	2.23	0.42
1:B:322:LEU:HD21	1:B:327:PHE:CD1	2.55	0.42
1:B:52:TYR:C	1:B:55:GLN:HG2	2.39	0.42
1:C:167:TRP:HH2	1:C:181:THR:HG22	1.85	0.42
1:C:83:LEU:N	1:C:85:PRO:HD2	2.34	0.42
1:C:96:ASP:HA	1:C:99:LEU:HD12	2.01	0.42
1:D:265:ILE:HD12	1:D:309:ALA:HA	2.01	0.42
1:D:310:THR:CG2	1:D:311:VAL:N	2.81	0.42
1:A:132:VAL:O	1:A:136:PHE:CD2	2.73	0.42
1:A:28:LEU:CD2	1:D:162:ILE:HD13	2.50	0.42
1:A:299:MET:SD	1:A:348:ARG:HG3	2.60	0.42
1:A:81:ALA:CB	1:A:110:ARG:HE	2.33	0.42
1:C:13:LEU:HD13	1:C:17:LEU:HD22	2.02	0.42
1:C:63:ARG:HG3	1:C:64:ARG:N	2.34	0.42
1:C:85:PRO:CB	1:C:104:TRP:CE2	3.02	0.42
1:D:129:LEU:HD12	1:D:130:ILE:HD13	2.02	0.42
1:D:322:LEU:HD21	1:D:327:PHE:CD1	2.55	0.42
1:D:85:PRO:CB	1:D:104:TRP:CE2	3.02	0.42
1:A:129:LEU:HD12	1:A:130:ILE:HG12	2.02	0.42
1:A:139:VAL:O	1:A:142:ALA:HB3	2.20	0.42
1:A:83:LEU:N	1:A:85:PRO:HD2	2.34	0.42
1:B:106:LEU:HD12	1:B:106:LEU:C	2.41	0.42
1:B:129:LEU:O	1:B:132:VAL:HG12	2.20	0.42
1:B:167:TRP:HH2	1:B:181:THR:HG22	1.85	0.42
1:B:230:VAL:CG1	1:B:231:ALA:N	2.80	0.42
1:B:246:GLU:O	1:B:250:ALA:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:91:LEU:CG	1:B:93:GLY:H	2.13	0.42
1:C:30:ILE:CG2	1:C:30:ILE:O	2.67	0.42
1:A:129:LEU:O	1:A:132:VAL:HG12	2.20	0.42
1:A:151:GLU:CD	1:A:159:PHE:HD1	2.23	0.42
1:A:56:LEU:O	1:A:59:THR:N	2.50	0.42
1:B:151:GLU:CD	1:B:164:GLN:HB2	2.40	0.42
1:B:281:SER:OG	1:B:312:SER:O	2.32	0.42
1:B:91:LEU:O	1:B:97:TRP:CZ3	2.72	0.42
1:C:132:VAL:HG13	1:C:133:THR:N	2.34	0.42
1:C:262:ILE:HD11	1:C:313:ALA:N	2.35	0.42
1:C:322:LEU:HD21	1:C:327:PHE:CD1	2.55	0.42
1:A:13:LEU:HD13	1:A:17:LEU:HD22	2.02	0.41
1:A:143:VAL:HG11	1:A:173:LEU:CD2	2.50	0.41
1:C:265:ILE:HD12	1:C:309:ALA:HA	2.01	0.41
1:D:81:ALA:CB	1:D:110:ARG:HE	2.32	0.41
1:D:129:LEU:HD12	1:D:130:ILE:HG12	2.02	0.41
1:D:167:TRP:HH2	1:D:181:THR:HG22	1.85	0.41
1:D:83:LEU:O	1:D:86:LEU:CB	2.65	0.41
1:A:76:ALA:C	1:A:79:VAL:HG12	2.41	0.41
1:A:81:ALA:O	1:A:85:PRO:CD	2.68	0.41
1:A:223:PHE:CE1	1:B:323:HIS:HE1	2.38	0.41
1:C:81:ALA:CB	1:C:110:ARG:HE	2.33	0.41
1:D:132:VAL:O	1:D:136:PHE:CD2	2.73	0.41
1:D:143:VAL:HG11	1:D:173:LEU:CD2	2.50	0.41
1:D:299:MET:SD	1:D:348:ARG:HG3	2.60	0.41
1:D:96:ASP:HA	1:D:99:LEU:HD12	2.01	0.41
1:B:81:ALA:CB	1:B:110:ARG:HE	2.33	0.41
1:B:129:LEU:HA	1:B:132:VAL:CG1	2.50	0.41
1:C:135:LEU:HD23	1:C:138:VAL:HG21	2.02	0.41
1:C:210:LEU:C	1:C:210:LEU:HD12	2.40	0.41
1:C:230:VAL:CG1	1:C:231:ALA:H	2.28	0.41
1:D:105:LEU:O	1:D:108:PRO:CD	2.65	0.41
1:D:13:LEU:HD13	1:D:17:LEU:HD22	2.02	0.41
1:D:86:LEU:O	1:D:90:LEU:HD13	2.19	0.41
1:A:106:LEU:HD12	1:A:106:LEU:C	2.41	0.41
1:A:53:LEU:HD12	1:A:53:LEU:H	1.84	0.41
1:A:64:ARG:HA	1:A:67:VAL:HG22	2.02	0.41
1:B:135:LEU:HD23	1:B:138:VAL:HG21	2.02	0.41
1:B:139:VAL:O	1:B:142:ALA:HB3	2.20	0.41
1:B:201:GLY:O	1:B:204:GLY:N	2.54	0.41
1:B:206:TRP:CZ3	1:B:210:LEU:CD2	2.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:220:ARG:HD3	1:C:1:MET:SD	2.60	0.41
1:B:262:ILE:HD11	1:B:313:ALA:N	2.35	0.41
1:C:123:ALA:HB1	1:D:1:MET:H1	1.85	0.41
1:C:129:LEU:HA	1:C:132:VAL:CG1	2.51	0.41
1:C:201:GLY:O	1:C:204:GLY:N	2.54	0.41
1:C:220:ARG:HD3	1:D:1:MET:HE3	1.94	0.41
1:C:27:ALA:HB1	1:C:38:ARG:HD3	2.03	0.41
1:D:139:VAL:O	1:D:142:ALA:HB3	2.20	0.41
1:D:189:ARG:O	1:D:192:ALA:CB	2.67	0.41
1:D:246:GLU:O	1:D:250:ALA:CB	2.67	0.41
1:A:323:HIS:HE1	1:D:223:PHE:CE1	2.38	0.41
1:A:322:LEU:HD21	1:A:327:PHE:CD1	2.55	0.41
1:B:109:LEU:HD12	1:B:114:PHE:CZ	2.55	0.41
1:B:129:LEU:HD12	1:B:130:ILE:HG12	2.02	0.41
1:B:131:GLY:HA3	1:C:113:THR:HG22	2.03	0.41
1:C:106:LEU:C	1:C:106:LEU:HD12	2.41	0.41
1:C:139:VAL:O	1:C:142:ALA:HB3	2.20	0.41
1:D:53:LEU:HD12	1:D:53:LEU:H	1.84	0.41
1:A:109:LEU:HD12	1:A:114:PHE:CZ	2.55	0.41
1:A:145:LEU:O	1:A:148:TYR:HB2	2.21	0.41
1:A:161:SER:O	1:A:164:GLN:OE1	2.39	0.41
1:A:197:MET:CA	1:A:200:ILE:HG12	2.51	0.41
1:B:132:VAL:HG13	1:B:133:THR:N	2.34	0.41
1:B:161:SER:O	1:B:164:GLN:OE1	2.39	0.41
1:B:233:VAL:CG1	1:B:234:PRO:HD2	2.50	0.41
1:B:81:ALA:O	1:B:85:PRO:CD	2.68	0.41
1:C:233:VAL:CG1	1:C:234:PRO:HD2	2.50	0.41
1:C:76:ALA:C	1:C:79:VAL:HG12	2.41	0.41
1:C:87:ALA:HA	1:C:90:LEU:CB	2.43	0.41
1:D:129:LEU:HA	1:D:132:VAL:CG1	2.51	0.41
1:A:29:THR:CB	1:D:162:ILE:CG2	2.99	0.41
1:D:161:SER:O	1:D:164:GLN:OE1	2.39	0.41
1:D:197:MET:CA	1:D:200:ILE:HG12	2.51	0.41
1:D:262:ILE:HD11	1:D:313:ALA:N	2.35	0.41
1:D:27:ALA:HB1	1:D:38:ARG:HD3	2.03	0.41
1:D:81:ALA:O	1:D:85:PRO:CD	2.68	0.41
1:A:167:TRP:HH2	1:A:181:THR:HG22	1.85	0.41
1:B:129:LEU:HD12	1:B:130:ILE:HD13	2.02	0.41
1:B:13:LEU:HD13	1:B:17:LEU:HD22	2.02	0.41
1:B:168:TRP:O	1:B:172:THR:CG2	2.69	0.41
1:B:197:MET:CA	1:B:200:ILE:HG12	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:262:ILE:HD11	1:A:313:ALA:N	2.35	0.41
1:A:27:ALA:HB1	1:A:38:ARG:HD3	2.03	0.41
1:B:343:LYS:O	1:B:347:GLU:HG3	2.21	0.41
1:C:25:VAL:CA	1:C:28:LEU:CB	2.96	0.41
1:C:299:MET:SD	1:C:348:ARG:HG3	2.60	0.41
1:D:219:ARG:HA	1:D:219:ARG:HD3	1.82	0.41
1:A:1:MET:SD	1:D:220:ARG:HD3	2.61	0.41
1:D:255:THR:OG1	1:D:317:VAL:O	2.28	0.41
1:D:64:ARG:HA	1:D:67:VAL:HG22	2.02	0.41
1:A:23:LEU:O	1:A:26:ALA:HB3	2.21	0.41
1:A:315:THR:O	1:A:317:VAL:HG23	2.21	0.41
1:B:145:LEU:O	1:B:148:TYR:HB2	2.21	0.41
1:C:151:GLU:CD	1:C:164:GLN:HB2	2.40	0.41
1:D:106:LEU:C	1:D:106:LEU:HD12	2.41	0.41
1:D:129:LEU:O	1:D:132:VAL:HG12	2.20	0.41
1:D:76:ALA:C	1:D:79:VAL:HG12	2.41	0.41
1:A:235:LEU:HD11	1:A:293:GLY:O	2.21	0.41
1:A:83:LEU:O	1:A:86:LEU:CB	2.65	0.41
1:A:189:ARG:HH22	1:B:167:TRP:HB2	1.85	0.41
1:B:23:LEU:O	1:B:26:ALA:HB3	2.21	0.41
1:C:129:LEU:CA	1:C:132:VAL:HG12	2.51	0.41
1:C:129:LEU:HD12	1:C:130:ILE:HG12	2.02	0.41
1:C:129:LEU:O	1:C:132:VAL:HG12	2.20	0.41
1:C:161:SER:O	1:C:164:GLN:OE1	2.39	0.41
1:B:189:ARG:NH2	1:C:167:TRP:CB	2.82	0.41
1:C:277:GLU:HA	1:C:292:PRO:HG3	2.03	0.41
1:C:64:ARG:HA	1:C:67:VAL:HG22	2.02	0.41
1:D:129:LEU:HD12	1:D:130:ILE:CD1	2.51	0.41
1:D:145:LEU:O	1:D:148:TYR:HB2	2.21	0.41
1:D:315:THR:O	1:D:317:VAL:HG23	2.21	0.41
1:A:129:LEU:CA	1:A:132:VAL:HG12	2.51	0.41
1:A:162:ILE:HB	1:B:29:THR:CB	2.49	0.41
1:A:201:GLY:O	1:A:204:GLY:N	2.54	0.41
1:B:27:ALA:HB1	1:B:38:ARG:HD3	2.03	0.41
1:B:64:ARG:HA	1:B:67:VAL:HG22	2.02	0.41
1:C:129:LEU:HD12	1:C:130:ILE:CD1	2.51	0.41
1:C:197:MET:CA	1:C:200:ILE:HG12	2.51	0.41
1:C:343:LYS:O	1:C:347:GLU:HG3	2.21	0.41
1:C:86:LEU:O	1:C:90:LEU:HD13	2.19	0.41
1:D:219:ARG:O	1:D:220:ARG:C	2.60	0.41
1:D:25:VAL:CA	1:D:28:LEU:CB	2.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:129:LEU:HA	1:A:132:VAL:CG1	2.50	0.40
1:A:268:PRO:HG2	1:D:70:ASP:OD1	2.21	0.40
1:B:210:LEU:HD12	1:B:210:LEU:C	2.40	0.40
1:B:22:LEU:O	1:B:25:VAL:CG2	2.69	0.40
1:B:315:THR:O	1:B:317:VAL:HG23	2.20	0.40
1:C:81:ALA:O	1:C:85:PRO:CD	2.68	0.40
1:D:210:LEU:C	1:D:210:LEU:HD12	2.41	0.40
1:D:33:MET:HG3	1:D:34:SER:N	2.36	0.40
1:A:129:LEU:HD12	1:A:130:ILE:CD1	2.51	0.40
1:A:162:ILE:HA	1:A:162:ILE:HD12	1.91	0.40
1:A:189:ARG:NH1	1:B:170:VAL:HG11	2.36	0.40
1:B:28:LEU:C	1:B:28:LEU:HD23	2.42	0.40
1:B:189:ARG:NH1	1:C:167:TRP:HB3	2.32	0.40
1:C:22:LEU:O	1:C:25:VAL:CG2	2.69	0.40
1:C:28:LEU:C	1:C:28:LEU:HD23	2.42	0.40
1:D:151:GLU:CD	1:D:159:PHE:HD1	2.23	0.40
1:C:205:LEU:CA	1:D:214:PHE:HZ	2.26	0.40
1:D:235:LEU:HD11	1:D:293:GLY:O	2.21	0.40
1:A:129:LEU:HD12	1:A:130:ILE:HD13	2.01	0.40
1:A:277:GLU:HA	1:A:292:PRO:HG3	2.03	0.40
1:A:33:MET:HG3	1:A:34:SER:N	2.36	0.40
1:B:129:LEU:HD12	1:B:130:ILE:CD1	2.51	0.40
1:C:129:LEU:C	1:C:129:LEU:HD12	2.42	0.40
1:C:145:LEU:O	1:C:148:TYR:HB2	2.21	0.40
1:C:178:TYR:CD1	1:C:178:TYR:O	2.75	0.40
1:D:129:LEU:C	1:D:129:LEU:HD12	2.42	0.40
1:D:129:LEU:CA	1:D:132:VAL:HG12	2.52	0.40
1:C:197:MET:HE1	1:D:206:TRP:CD2	2.57	0.40
1:D:23:LEU:O	1:D:26:ALA:HB3	2.21	0.40
1:A:192:ALA:O	1:A:195:VAL:CG1	2.69	0.40
1:A:343:LYS:O	1:A:347:GLU:HG3	2.21	0.40
1:A:85:PRO:HG3	1:A:104:TRP:CH2	2.57	0.40
1:B:129:LEU:CA	1:B:132:VAL:HG12	2.51	0.40
1:B:189:ARG:NH1	1:C:170:VAL:HG11	2.35	0.40
1:C:33:MET:HG3	1:C:34:SER:N	2.36	0.40
1:D:135:LEU:HD23	1:D:138:VAL:HG21	2.02	0.40
1:D:201:GLY:O	1:D:204:GLY:N	2.54	0.40
1:D:85:PRO:HG3	1:D:104:TRP:CH2	2.57	0.40
1:A:129:LEU:HD12	1:A:129:LEU:C	2.42	0.40
1:A:135:LEU:HD23	1:A:138:VAL:HG21	2.02	0.40
1:A:28:LEU:C	1:A:28:LEU:HD23	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:255:THR:OG1	1:A:317:VAL:O	2.28	0.40
1:A:123:ALA:HB1	1:B:1:MET:H1	1.86	0.40
1:B:277:GLU:HA	1:B:292:PRO:HG3	2.03	0.40
1:B:76:ALA:C	1:B:79:VAL:HG12	2.41	0.40
1:C:85:PRO:HG3	1:C:104:TRP:CH2	2.57	0.40
1:C:143:VAL:HG11	1:C:173:LEU:CD2	2.50	0.40
1:C:19:ALA:N	1:C:20:PRO:CD	2.84	0.40
1:C:23:LEU:O	1:C:26:ALA:HB3	2.21	0.40
1:C:315:THR:O	1:C:317:VAL:HG23	2.21	0.40
1:D:144:ALA:O	1:D:148:TYR:CG	2.75	0.40
1:D:28:LEU:HD23	1:D:28:LEU:C	2.42	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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	353/355 (99%)	299 (85%)	53 (15%)	1 (0%)	44	81
1	B	353/355 (99%)	300 (85%)	52 (15%)	1 (0%)	44	81
1	C	353/355 (99%)	299 (85%)	53 (15%)	1 (0%)	44	81
1	D	353/355 (99%)	299 (85%)	53 (15%)	1 (0%)	44	81
All	All	1412/1420 (99%)	1197 (85%)	211 (15%)	4 (0%)	44	81

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	138	VAL
1	B	138	VAL
1	C	138	VAL
1	D	138	VAL

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	273/273 (100%)	273 (100%)	0	100	100
1	B	273/273 (100%)	273 (100%)	0	100	100
1	C	273/273 (100%)	273 (100%)	0	100	100
1	D	273/273 (100%)	273 (100%)	0	100	100
All	All	1092/1092 (100%)	1092 (100%)	0	100	100

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

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	55	GLN
1	A	226	ASN
1	A	323	HIS
1	B	55	GLN
1	B	226	ASN
1	B	323	HIS
1	C	55	GLN
1	C	226	ASN
1	C	323	HIS
1	D	55	GLN
1	D	226	ASN
1	D	323	HIS

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 [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

EDS was not executed - this section is therefore empty.

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates ⓘ

EDS was not executed - this section is therefore empty.

6.4 Ligands ⓘ

EDS was not executed - this section is therefore empty.

6.5 Other polymers ⓘ

EDS was not executed - this section is therefore empty.