



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 27, 2023 – 02:01 AM EDT

PDB ID : 3FH6
Title : Crystal structure of the resting state maltose transporter from *E. coli*
Authors : Khare, D.; Oldham, M.L.; Orelle, C.; Davidson, A.L.; Chen, J.
Deposited on : 2008-12-08
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

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.35
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35

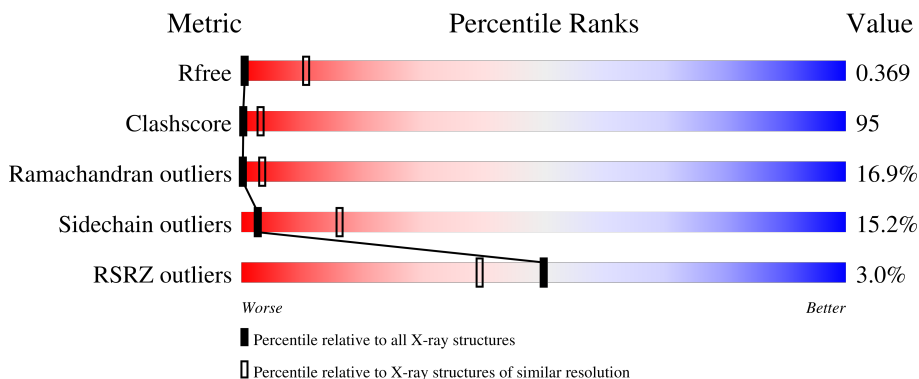
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

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.



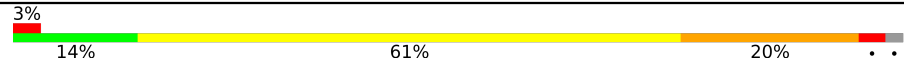

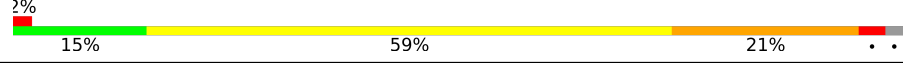
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1055 (5.20-3.80)
Clashscore	141614	1123 (5.20-3.80)
Ramachandran outliers	138981	1069 (5.20-3.80)
Sidechain outliers	138945	1050 (5.20-3.80)
RSRZ outliers	127900	1101 (5.30-3.70)

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 of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	F	480	 9% 41% 14% 34%
1	H	480	 4% 9% 42% 14% 34%
2	G	296	 2% 17% 52% 14% 14%
2	I	296	 2% 17% 52% 14% 14%
3	A	381	 2% 12% 60% 22% 4%

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Mol	Chain	Length	Quality of chain
3	B	381	
3	C	381	
3	D	381	

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 20236 atoms, of which 0 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 Maltose transport system permease protein malF.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	F	316	2418	1607	378	418	15	0	0	0
1	H	316	2418	1607	378	418	15	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
F	35	MET	-	expression tag	UNP P02916
H	35	MET	-	expression tag	UNP P02916

- Molecule 2 is a protein called Maltose transport system permease protein malG.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	G	254	1942	1308	306	319	9	0	0	0
2	I	254	1942	1308	306	319	9	0	0	0

- Molecule 3 is a protein called Maltose/maltodextrin import ATP-binding protein malK.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	A	371	2876	1819	515	529	13	0	0	0
3	B	372	2882	1822	516	531	13	0	0	0
3	C	371	2876	1819	515	529	13	0	0	0
3	D	372	2882	1822	516	531	13	0	0	0

There are 40 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	372	ALA	-	expression tag	UNP P68187
A	373	SER	-	expression tag	UNP P68187
A	374	ALA	-	expression tag	UNP P68187
A	375	SER	-	expression tag	UNP P68187
A	376	HIS	-	expression tag	UNP P68187
A	377	HIS	-	expression tag	UNP P68187
A	378	HIS	-	expression tag	UNP P68187
A	379	HIS	-	expression tag	UNP P68187
A	380	HIS	-	expression tag	UNP P68187
A	381	HIS	-	expression tag	UNP P68187
B	372	ALA	-	expression tag	UNP P68187
B	373	SER	-	expression tag	UNP P68187
B	374	ALA	-	expression tag	UNP P68187
B	375	SER	-	expression tag	UNP P68187
B	376	HIS	-	expression tag	UNP P68187
B	377	HIS	-	expression tag	UNP P68187
B	378	HIS	-	expression tag	UNP P68187
B	379	HIS	-	expression tag	UNP P68187
B	380	HIS	-	expression tag	UNP P68187
B	381	HIS	-	expression tag	UNP P68187
C	372	ALA	-	expression tag	UNP P68187
C	373	SER	-	expression tag	UNP P68187
C	374	ALA	-	expression tag	UNP P68187
C	375	SER	-	expression tag	UNP P68187
C	376	HIS	-	expression tag	UNP P68187
C	377	HIS	-	expression tag	UNP P68187
C	378	HIS	-	expression tag	UNP P68187
C	379	HIS	-	expression tag	UNP P68187
C	380	HIS	-	expression tag	UNP P68187
C	381	HIS	-	expression tag	UNP P68187
D	372	ALA	-	expression tag	UNP P68187
D	373	SER	-	expression tag	UNP P68187
D	374	ALA	-	expression tag	UNP P68187
D	375	SER	-	expression tag	UNP P68187
D	376	HIS	-	expression tag	UNP P68187
D	377	HIS	-	expression tag	UNP P68187
D	378	HIS	-	expression tag	UNP P68187
D	379	HIS	-	expression tag	UNP P68187
D	380	HIS	-	expression tag	UNP P68187
D	381	HIS	-	expression tag	UNP P68187

4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	171.10Å 209.48Å 438.74Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 4.50 49.19 – 4.50	Depositor EDS
% Data completeness (in resolution range)	85.2 (50.00-4.50) 85.2 (49.19-4.50)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.54 (at 4.45Å)	Xtrriage
Refinement program	CNS	Depositor
R, R_{free}	0.340 , 0.363 0.354 , 0.369	Depositor DCC
R_{free} test set	2038 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	216.6	Xtrriage
Anisotropy	0.633	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.18 , 150.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.87	EDS
Total number of atoms	20236	wwPDB-VP
Average B, all atoms (Å ²)	300.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.84% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	F	0.51	0/2473	0.85	3/3365 (0.1%)
1	H	0.51	0/2473	0.85	2/3365 (0.1%)
2	G	0.49	0/1992	0.87	5/2724 (0.2%)
2	I	0.50	0/1992	0.87	5/2724 (0.2%)
3	A	0.46	1/2926 (0.0%)	0.90	6/3968 (0.2%)
3	B	0.49	1/2932 (0.0%)	0.92	2/3976 (0.1%)
3	C	0.46	1/2926 (0.0%)	0.90	6/3968 (0.2%)
3	D	0.49	1/2932 (0.0%)	0.92	2/3976 (0.1%)
All	All	0.49	4/20646 (0.0%)	0.89	31/28066 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	A	0	1
3	C	0	1
All	All	0	2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	159	GLU	CD-OE2	6.81	1.33	1.25
3	A	159	GLU	CD-OE2	6.79	1.33	1.25
3	D	159	GLU	CD-OE2	6.50	1.32	1.25
3	B	159	GLU	CD-OE2	6.49	1.32	1.25

All (31) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	259	LEU	N-CA-C	-7.22	91.50	111.00
2	I	259	LEU	N-CA-C	-7.22	91.51	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	196	GLY	N-CA-C	6.62	129.66	113.10
2	I	196	GLY	N-CA-C	6.62	129.66	113.10
1	H	380	GLY	N-CA-C	6.46	129.24	113.10
1	F	380	GLY	N-CA-C	6.45	129.23	113.10
3	D	347	LEU	C-N-CD	6.42	141.88	128.40
3	B	347	LEU	C-N-CD	6.42	141.88	128.40
2	I	78	PRO	N-CA-CB	6.12	110.64	103.30
2	G	78	PRO	N-CA-CB	6.12	110.64	103.30
3	B	201	ALA	N-CA-C	6.00	127.21	111.00
3	D	201	ALA	N-CA-C	6.00	127.21	111.00
3	C	361	ALA	N-CA-C	5.87	126.85	111.00
3	A	361	ALA	N-CA-C	5.87	126.84	111.00
1	H	70	PRO	N-CA-CB	5.72	110.17	103.30
1	F	70	PRO	N-CA-CB	5.71	110.15	103.30
3	A	123	LEU	CA-CB-CG	5.52	127.99	115.30
3	C	123	LEU	CA-CB-CG	5.51	127.97	115.30
2	G	259	LEU	CA-CB-CG	5.42	127.77	115.30
2	I	259	LEU	CA-CB-CG	5.41	127.74	115.30
3	C	201	ALA	N-CA-C	5.31	125.33	111.00
3	A	201	ALA	N-CA-C	5.30	125.31	111.00
3	A	63	GLY	N-CA-C	-5.17	100.18	113.10
3	C	63	GLY	N-CA-C	-5.17	100.18	113.10
3	C	200	LEU	N-CA-C	5.06	124.67	111.00
3	A	294	ASP	N-CA-C	5.06	124.66	111.00
3	A	200	LEU	N-CA-C	5.05	124.65	111.00
3	C	294	ASP	N-CA-C	5.05	124.64	111.00
2	G	77	PRO	N-CA-CB	5.03	109.34	103.30
2	I	77	PRO	N-CA-CB	5.03	109.34	103.30
1	F	99	GLN	N-CA-C	-5.00	97.49	111.00

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	A	84	TYR	Sidechain
3	C	84	TYR	Sidechain

5.2 Too-close contacts [i](#)

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

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	2418	0	2476	555	0
1	H	2418	0	2476	557	0
2	G	1942	0	2008	362	0
2	I	1942	0	2008	365	0
3	A	2876	0	2942	582	15
3	B	2882	0	2947	557	12
3	C	2876	0	2942	571	9
3	D	2882	0	2947	549	5
All	All	20236	0	20746	3892	31

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 95.

All (3892) 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:F:347:ILE:HG23	1:F:348:ASN:H	1.03	1.15
3:D:157:LEU:HD23	3:D:160:PRO:HG3	1.30	1.13
1:F:275:LYS:H	1:F:276:PRO:HD2	1.07	1.13
1:F:387:LEU:HD21	1:F:429:LEU:HD13	1.29	1.12
3:C:79:MET:HG2	3:C:80:VAL:H	1.14	1.12
1:H:284:THR:HG22	1:H:466:LEU:HA	1.16	1.12
3:A:40:CYS:HB2	3:A:42:LYS:HG3	1.27	1.12
1:H:486:LEU:HD22	2:I:135:LEU:HD21	1.14	1.12
3:D:301:GLU:HA	3:D:344:ALA:HB2	1.28	1.11
3:B:157:LEU:HD23	3:B:160:PRO:HG3	1.30	1.11
1:F:100:LEU:HB3	1:F:104:ARG:HG3	1.31	1.11
1:F:328:PRO:HD3	2:G:274:ILE:HG12	1.29	1.11
3:A:144:ILE:HG22	3:A:148:LEU:HD11	1.32	1.11
1:H:328:PRO:HD3	2:I:274:ILE:HG12	1.29	1.10
1:H:490:ILE:HG12	2:I:135:LEU:HD23	1.33	1.10
1:F:486:LEU:HD22	2:G:135:LEU:HD21	1.14	1.10
1:H:100:LEU:HB3	1:H:104:ARG:HG3	1.31	1.10
1:H:347:ILE:HG23	1:H:348:ASN:H	1.03	1.10
2:I:188:LEU:H	2:I:188:LEU:HD12	1.17	1.09
1:H:275:LYS:H	1:H:276:PRO:HD2	1.07	1.09
3:C:144:ILE:HG22	3:C:148:LEU:HD11	1.32	1.08
3:B:301:GLU:HA	3:B:344:ALA:HB2	1.28	1.08
1:F:490:ILE:HG12	2:G:135:LEU:HD23	1.33	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:284:THR:HG22	1:F:466:LEU:HA	1.16	1.08
3:C:40:CYS:HB2	3:C:42:LYS:HG3	1.27	1.08
1:H:387:LEU:HD21	1:H:429:LEU:HD13	1.29	1.07
1:F:357:VAL:HG12	1:F:358:LYS:H	1.13	1.06
3:A:79:MET:HG2	3:A:80:VAL:H	1.14	1.06
1:H:357:VAL:HG12	1:H:358:LYS:H	1.13	1.05
3:A:117:VAL:O	3:A:120:VAL:HG22	1.56	1.05
2:G:188:LEU:H	2:G:188:LEU:HD12	1.16	1.04
3:C:317:HIS:O	3:C:318:ILE:HG13	1.55	1.04
3:A:317:HIS:O	3:A:318:ILE:HG13	1.55	1.04
3:C:117:VAL:O	3:C:120:VAL:HG22	1.56	1.04
1:F:373:ILE:HG13	1:F:374:ILE:H	1.23	1.03
1:H:373:ILE:HG13	1:H:374:ILE:H	1.23	1.03
3:A:315:GLN:HE21	3:A:330:ARG:HG2	1.25	1.02
1:F:347:ILE:HG23	1:F:348:ASN:N	1.75	1.02
3:C:84:TYR:HB3	3:C:86:LEU:HD21	1.39	1.02
1:H:347:ILE:HG23	1:H:348:ASN:N	1.75	1.02
3:D:204:ILE:HG22	3:D:205:VAL:H	1.23	1.02
3:C:315:GLN:HE21	3:C:330:ARG:HG2	1.25	1.01
3:B:298:VAL:HG11	3:B:347:LEU:HB3	1.42	1.01
1:H:100:LEU:HD22	1:H:104:ARG:HE	1.24	1.01
1:H:327:VAL:HA	2:I:274:ILE:HG21	1.43	1.01
3:D:298:VAL:HG11	3:D:347:LEU:HB3	1.42	1.01
1:F:373:ILE:HG13	1:F:374:ILE:N	1.76	1.01
3:B:226:ALA:HB3	3:B:230:VAL:HG21	1.39	1.01
3:A:42:LYS:HG2	3:A:207:LEU:HD12	1.42	1.00
3:C:42:LYS:HG2	3:C:207:LEU:HD12	1.42	1.00
3:A:225:PRO:HD2	3:A:353:HIS:NE2	1.77	1.00
1:H:348:ASN:HB3	1:H:358:LYS:HG3	1.41	1.00
2:I:31:LEU:HD23	2:I:31:LEU:H	1.25	1.00
1:F:391:LEU:HD21	1:F:425:PRO:HB2	1.43	1.00
1:F:327:VAL:HA	2:G:274:ILE:HG21	1.43	0.99
1:F:100:LEU:HD22	1:F:104:ARG:HE	1.24	0.99
3:A:84:TYR:HB3	3:A:86:LEU:HD21	1.39	0.99
1:H:391:LEU:HD21	1:H:425:PRO:HB2	1.43	0.99
3:D:226:ALA:HB3	3:D:230:VAL:HG21	1.39	0.99
2:G:195:ASP:HB2	3:A:102:LEU:HD23	1.44	0.99
3:B:204:ILE:HG22	3:B:205:VAL:H	1.23	0.99
3:D:368:GLU:HB3	3:D:369:PRO:HD2	1.43	0.99
3:A:183:LEU:HD22	3:A:185:ARG:HH12	1.26	0.99
3:B:368:GLU:HB3	3:B:369:PRO:HD2	1.43	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:225:PRO:HD2	3:C:353:HIS:NE2	1.77	0.99
1:F:348:ASN:HB3	1:F:358:LYS:HG3	1.41	0.99
1:F:497:LEU:HD13	2:G:132:PRO:HD3	1.45	0.99
2:I:115:PHE:HB2	2:I:116:PRO:HD2	1.42	0.99
1:H:341:ASN:ND2	1:H:344:PHE:HB2	1.78	0.98
2:G:115:PHE:HB2	2:G:116:PRO:HD2	1.42	0.98
1:H:497:LEU:HD13	2:I:132:PRO:HD3	1.45	0.98
3:D:34:PHE:O	3:D:35:VAL:HG13	1.64	0.98
2:G:31:LEU:HD23	2:G:31:LEU:H	1.25	0.98
1:H:373:ILE:HG13	1:H:374:ILE:N	1.76	0.98
2:I:255:PRO:HB2	2:I:259:LEU:HG	1.46	0.98
3:C:183:LEU:HD22	3:C:185:ARG:HH12	1.26	0.98
1:F:341:ASN:ND2	1:F:344:PHE:HB2	1.78	0.98
3:C:66:ARG:O	3:C:67:MET:HG2	1.63	0.98
3:B:34:PHE:O	3:B:35:VAL:HG13	1.64	0.98
3:B:243:PRO:HB2	3:B:259:PRO:HG3	1.43	0.98
3:D:260:MET:HB2	3:D:261:PRO:HD2	1.44	0.97
1:F:486:LEU:HD13	1:F:490:ILE:HD11	1.46	0.97
3:D:301:GLU:HA	3:D:344:ALA:CB	1.94	0.97
3:A:66:ARG:O	3:A:67:MET:HG2	1.63	0.97
3:A:368:GLU:HG2	3:A:369:PRO:HD2	1.47	0.97
1:H:346:GLU:HA	1:H:349:MET:HG3	1.46	0.96
3:A:223:HIS:O	3:A:225:PRO:HD3	1.64	0.96
3:B:260:MET:HB2	3:B:261:PRO:HD2	1.44	0.96
3:D:243:PRO:HB2	3:D:259:PRO:HG3	1.43	0.96
2:G:255:PRO:HB2	2:G:259:LEU:HG	1.46	0.96
3:C:368:GLU:HG2	3:C:369:PRO:HD2	1.47	0.96
3:B:301:GLU:HA	3:B:344:ALA:CB	1.94	0.96
3:B:356:ARG:HB2	3:B:358:ASP:OD1	1.66	0.96
1:F:347:ILE:CG2	1:F:348:ASN:H	1.80	0.95
2:I:195:ASP:HB2	3:C:102:LEU:HD23	1.44	0.95
3:C:223:HIS:O	3:C:225:PRO:HD3	1.64	0.95
3:D:91:SER:HA	3:D:131:PRO:HD3	1.46	0.95
3:B:46:LEU:HD11	3:B:156:LEU:HB3	1.47	0.95
1:H:486:LEU:HD13	1:H:490:ILE:HD11	1.46	0.94
3:C:96:MET:HB3	3:C:149:VAL:HG21	1.49	0.94
3:D:356:ARG:HB2	3:D:358:ASP:OD1	1.66	0.94
2:G:158:THR:HG23	2:G:161:GLY:H	1.31	0.94
3:B:189:TYR:HD2	3:B:190:VAL:N	1.65	0.94
3:A:96:MET:HB3	3:A:149:VAL:HG21	1.49	0.94
3:B:91:SER:HA	3:B:131:PRO:HD3	1.46	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:281:MET:HB3	3:A:354:LEU:HD11	1.49	0.94
1:H:347:ILE:CG2	1:H:348:ASN:H	1.80	0.94
1:H:410:PRO:HA	1:H:413:ASN:ND2	1.82	0.94
3:C:79:MET:HG2	3:C:80:VAL:N	1.83	0.94
3:C:226:ALA:O	3:C:361:ALA:HB2	1.68	0.94
1:F:410:PRO:HA	1:F:413:ASN:ND2	1.82	0.94
3:D:189:TYR:HD2	3:D:190:VAL:N	1.65	0.93
3:D:46:LEU:HD11	3:D:156:LEU:HB3	1.47	0.93
1:F:284:THR:CG2	1:F:466:LEU:HA	1.97	0.93
3:A:70:THR:HG22	3:A:71:PRO:HD2	1.48	0.93
3:D:268:LEU:HD12	3:D:270:VAL:CG2	1.98	0.93
1:F:372:LEU:HD12	1:F:443:LEU:HD21	1.48	0.93
3:A:79:MET:HG2	3:A:80:VAL:N	1.83	0.93
3:B:268:LEU:HD12	3:B:270:VAL:CG2	1.97	0.93
3:A:109:VAL:HG12	3:A:113:ARG:HD2	1.50	0.93
3:B:204:ILE:HG22	3:B:205:VAL:N	1.84	0.93
3:D:320:ILE:HG23	3:D:321:PRO:HD2	1.50	0.93
1:F:346:GLU:HA	1:F:349:MET:HG3	1.46	0.92
3:C:109:VAL:HG12	3:C:113:ARG:HD2	1.50	0.92
3:D:40:CYS:SG	3:D:42:LYS:HG3	2.09	0.92
1:H:284:THR:CG2	1:H:466:LEU:HA	1.97	0.92
3:D:100:LEU:HD12	3:D:101:LYS:N	1.85	0.92
3:D:204:ILE:HG22	3:D:205:VAL:N	1.84	0.92
3:B:40:CYS:SG	3:B:42:LYS:HG3	2.09	0.92
3:D:117:VAL:O	3:D:120:VAL:HG22	1.68	0.92
3:C:70:THR:HG22	3:C:71:PRO:HD2	1.48	0.92
1:H:372:LEU:HD12	1:H:443:LEU:HD21	1.48	0.92
3:C:204:ILE:HG22	3:C:205:VAL:H	1.33	0.92
2:G:18:LEU:HD23	2:G:19:LEU:H	1.33	0.92
2:G:150:TYR:O	2:G:152:PRO:HD3	1.70	0.92
2:I:150:TYR:O	2:I:152:PRO:HD3	1.70	0.92
3:A:226:ALA:O	3:A:361:ALA:HB2	1.68	0.92
3:A:287:PRO:HA	3:A:290:LEU:HD12	1.52	0.92
2:I:35:VAL:O	2:I:37:ILE:N	2.02	0.92
2:I:158:THR:HG23	2:I:161:GLY:H	1.32	0.92
2:I:185:ASP:O	2:I:188:LEU:HD13	1.69	0.92
1:H:284:THR:HG22	1:H:466:LEU:CA	2.00	0.92
3:C:287:PRO:HA	3:C:290:LEU:HD12	1.52	0.92
3:D:42:LYS:HG2	3:D:207:LEU:HD12	1.51	0.92
2:G:185:ASP:O	2:G:188:LEU:HD13	1.69	0.91
2:G:195:ASP:CB	3:A:102:LEU:HD23	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:55:ILE:HD12	3:A:55:ILE:H	1.33	0.91
2:I:18:LEU:HD23	2:I:19:LEU:H	1.33	0.91
2:G:254:ASN:HB2	2:G:255:PRO:CD	2.01	0.91
3:C:301:GLU:HA	3:C:344:ALA:HB2	1.53	0.91
2:G:35:VAL:O	2:G:37:ILE:N	2.02	0.91
3:C:281:MET:HB3	3:C:354:LEU:HD11	1.50	0.91
3:A:11:LYS:HA	3:A:56:THR:HB	1.52	0.91
3:B:117:VAL:O	3:B:120:VAL:HG22	1.68	0.91
3:C:55:ILE:H	3:C:55:ILE:HD12	1.33	0.91
3:B:320:ILE:HG23	3:B:321:PRO:HD2	1.50	0.91
3:B:42:LYS:HG2	3:B:207:LEU:HD12	1.51	0.90
3:B:100:LEU:HD12	3:B:101:LYS:N	1.85	0.90
1:F:284:THR:HG22	1:F:466:LEU:CA	2.00	0.90
2:I:177:ILE:HD12	2:I:214:ILE:HG21	1.53	0.90
2:I:254:ASN:HB2	2:I:255:PRO:CD	2.01	0.90
3:A:301:GLU:HA	3:A:344:ALA:HB2	1.53	0.90
3:C:11:LYS:HA	3:C:56:THR:HB	1.52	0.90
3:B:358:ASP:CG	3:B:359:GLY:H	1.75	0.90
2:I:195:ASP:CB	3:C:102:LEU:HD23	2.01	0.90
3:D:358:ASP:CG	3:D:359:GLY:H	1.75	0.90
1:H:87:ILE:HA	1:H:490:ILE:CG2	2.02	0.90
2:G:135:LEU:HG	2:G:138:VAL:HG21	1.55	0.89
2:G:204:ARG:O	2:G:209:PRO:HD2	1.72	0.89
2:I:135:LEU:HG	2:I:138:VAL:HG21	1.55	0.89
2:G:220:ILE:HG13	2:G:221:LEU:N	1.86	0.89
1:F:317:TYR:CE2	2:G:20:LEU:HG	2.07	0.89
3:A:11:LYS:HA	3:A:56:THR:CB	2.03	0.89
3:A:204:ILE:HG22	3:A:205:VAL:H	1.33	0.89
2:G:207:LEU:O	2:G:210:LEU:HB2	1.73	0.89
1:F:275:LYS:N	1:F:276:PRO:HD2	1.87	0.89
3:B:11:LYS:HA	3:B:56:THR:HB	1.55	0.89
1:F:89:ILE:O	1:F:91:PHE:N	2.06	0.89
1:H:317:TYR:CE2	2:I:20:LEU:HG	2.07	0.89
1:F:501:LEU:HB3	2:G:127:ILE:HG23	1.54	0.88
2:G:28:MET:O	2:G:31:LEU:HG	1.73	0.88
2:G:177:ILE:HD12	2:G:214:ILE:HG21	1.53	0.88
1:H:89:ILE:O	1:H:91:PHE:N	2.06	0.88
2:I:220:ILE:HG13	2:I:221:LEU:N	1.86	0.88
1:F:87:ILE:HA	1:F:490:ILE:CG2	2.02	0.88
3:C:334:VAL:HG12	3:C:335:VAL:H	1.38	0.88
3:D:11:LYS:HA	3:D:56:THR:HB	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:28:MET:HA	2:I:31:LEU:HD21	1.55	0.88
1:F:381:TYR:HD1	1:F:382:PRO:N	1.70	0.88
2:G:188:LEU:H	2:G:188:LEU:CD1	1.87	0.88
1:H:381:TYR:HD1	1:H:382:PRO:N	1.70	0.88
2:I:204:ARG:O	2:I:209:PRO:HD2	1.72	0.88
2:G:28:MET:HA	2:G:31:LEU:HD21	1.55	0.88
2:I:28:MET:O	2:I:31:LEU:HG	1.73	0.88
1:F:450:GLY:HA2	1:F:464:THR:HB	1.56	0.88
2:I:188:LEU:H	2:I:188:LEU:CD1	1.87	0.88
1:F:486:LEU:O	1:F:490:ILE:HG13	1.74	0.88
3:C:11:LYS:HA	3:C:56:THR:CB	2.03	0.88
1:F:267:VAL:HA	1:F:488:ALA:HB2	1.55	0.87
1:H:92:THR:HG23	1:H:93:ASN:H	1.39	0.87
1:H:99:GLN:HE22	2:I:146:ARG:HH12	1.15	0.87
2:I:29:PHE:HB3	2:I:30:PRO:HD3	1.57	0.87
3:C:145:GLY:HA2	3:C:148:LEU:HD12	1.56	0.87
3:C:214:GLN:CD	3:C:226:ALA:HB2	1.95	0.87
3:D:349:PRO:O	3:D:352:CYS:HB2	1.74	0.87
1:F:92:THR:HG23	1:F:93:ASN:H	1.39	0.87
1:H:275:LYS:N	1:H:276:PRO:HD2	1.87	0.87
3:A:214:GLN:CD	3:A:226:ALA:HB2	1.95	0.87
2:I:207:LEU:O	2:I:210:LEU:HB2	1.73	0.87
1:F:99:GLN:HE22	2:G:146:ARG:HH12	1.15	0.87
1:H:267:VAL:HA	1:H:488:ALA:HB2	1.56	0.87
1:F:303:ALA:HA	1:F:385:MET:HE1	1.57	0.86
1:F:442:VAL:HG13	2:G:230:VAL:HG11	1.56	0.86
1:H:501:LEU:HB3	2:I:127:ILE:HG23	1.54	0.86
2:I:212:VAL:HA	2:I:215:LEU:HG	1.56	0.86
3:B:283:LEU:HD11	3:B:352:CYS:SG	2.14	0.86
3:C:110:ILE:O	3:C:114:VAL:HG23	1.76	0.86
3:D:283:LEU:HD11	3:D:352:CYS:SG	2.14	0.86
3:A:334:VAL:HG12	3:A:335:VAL:H	1.38	0.86
3:C:170:VAL:O	3:C:173:ARG:HB3	1.76	0.86
2:G:29:PHE:HB3	2:G:30:PRO:HD3	1.57	0.86
3:B:349:PRO:O	3:B:352:CYS:HB2	1.74	0.86
1:H:275:LYS:H	1:H:276:PRO:CD	1.88	0.86
1:H:303:ALA:HA	1:H:385:MET:HE1	1.58	0.86
1:H:308:TRP:CH2	1:H:410:PRO:HB3	2.10	0.86
1:H:486:LEU:O	1:H:490:ILE:HG13	1.74	0.86
1:H:409:GLY:H	1:H:412:GLN:HB2	1.40	0.85
1:H:442:VAL:HG13	2:I:230:VAL:HG11	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:164:LEU:HD22	3:A:168:LEU:HD23	1.58	0.85
3:A:204:ILE:HG22	3:A:205:VAL:N	1.91	0.85
1:H:450:GLY:HA2	1:H:464:THR:HB	1.56	0.85
3:D:26:ILE:H	3:D:26:ILE:HD12	1.39	0.85
3:D:242:LEU:HB3	3:D:323:ILE:HD11	1.57	0.85
3:A:110:ILE:O	3:A:114:VAL:HG23	1.76	0.85
3:C:204:ILE:HG22	3:C:205:VAL:N	1.91	0.85
1:F:494:ILE:O	1:F:498:VAL:HG23	1.76	0.85
2:G:172:LEU:HD23	2:G:173:HIS:H	1.42	0.85
3:A:113:ARG:O	3:A:117:VAL:HG23	1.76	0.85
3:B:242:LEU:HB3	3:B:323:ILE:HD11	1.57	0.85
2:G:24:ILE:HD12	2:G:25:ALA:N	1.92	0.85
2:G:212:VAL:HA	2:G:215:LEU:HG	1.56	0.85
2:G:132:PRO:O	2:G:134:VAL:N	2.10	0.85
3:C:285:ILE:HD12	3:C:286:ARG:H	1.40	0.85
3:C:84:TYR:CB	3:C:86:LEU:HD21	2.07	0.84
1:F:308:TRP:CH2	1:F:410:PRO:HB3	2.10	0.84
3:A:170:VAL:O	3:A:173:ARG:HB3	1.76	0.84
3:D:307:VAL:HG12	3:D:309:GLN:HE22	1.41	0.84
2:G:92:ALA:HB2	2:G:227:ILE:HD13	1.59	0.84
3:A:300:LEU:HD11	3:A:347:LEU:HD23	1.59	0.84
1:H:88:ALA:HA	1:H:264:PHE:HZ	1.42	0.84
3:C:113:ARG:O	3:C:117:VAL:HG23	1.76	0.84
3:D:269:PRO:HB2	3:D:365:LEU:HB2	1.59	0.84
1:F:396:PRO:CG	1:F:399:LEU:HD12	2.06	0.84
3:D:188:ILE:HD12	3:D:188:ILE:N	1.92	0.84
3:A:84:TYR:CB	3:A:86:LEU:HD21	2.07	0.84
3:B:26:ILE:HD12	3:B:26:ILE:H	1.39	0.84
3:B:188:ILE:HD12	3:B:188:ILE:N	1.92	0.84
3:B:307:VAL:HG12	3:B:309:GLN:HE22	1.41	0.84
1:F:88:ALA:HA	1:F:264:PHE:HZ	1.42	0.84
3:C:214:GLN:HG2	3:C:215:VAL:N	1.93	0.84
1:F:335:ILE:HD12	1:F:339:LEU:HD11	1.60	0.84
3:A:145:GLY:HA2	3:A:148:LEU:HD12	1.56	0.84
3:B:5:GLN:C	3:B:6:LEU:HD12	1.98	0.84
1:H:280:ILE:O	1:H:284:THR:HG23	1.77	0.84
1:H:396:PRO:CG	1:H:399:LEU:HD12	2.06	0.84
1:F:275:LYS:H	1:F:276:PRO:CD	1.88	0.84
1:F:280:ILE:O	1:F:284:THR:HG23	1.77	0.84
2:I:93:GLY:HA2	2:I:223:PHE:HE1	1.42	0.84
3:D:135:SER:OG	3:D:138:GLN:HG3	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:62:ILE:O	3:A:64:GLU:N	2.11	0.84
3:A:144:ILE:O	3:A:148:LEU:HG	1.78	0.84
3:A:285:ILE:HD12	3:A:286:ARG:H	1.40	0.84
1:F:357:VAL:HG12	1:F:358:LYS:N	1.93	0.83
1:F:282:VAL:O	1:F:286:VAL:HG23	1.78	0.83
2:G:93:GLY:HA2	2:G:223:PHE:HE1	1.42	0.83
1:H:494:ILE:O	1:H:498:VAL:HG23	1.76	0.83
3:B:84:TYR:HB3	3:B:86:LEU:HD21	1.59	0.83
1:H:327:VAL:CA	2:I:274:ILE:HG21	2.08	0.83
3:A:124:ALA:O	3:A:127:LEU:HD13	1.78	0.83
1:H:335:ILE:HD12	1:H:339:LEU:HD11	1.60	0.83
3:D:236:SER:HB3	3:D:237:PRO:HD3	1.60	0.83
3:D:254:VAL:HB	3:D:270:VAL:HG21	1.59	0.83
3:B:269:PRO:HB2	3:B:365:LEU:HB2	1.59	0.83
2:I:24:ILE:HD12	2:I:25:ALA:N	1.92	0.83
2:I:92:ALA:HB2	2:I:227:ILE:HD13	1.59	0.83
3:C:300:LEU:HD11	3:C:347:LEU:HD23	1.59	0.83
3:B:11:LYS:HA	3:B:56:THR:CB	2.08	0.83
1:H:282:VAL:O	1:H:286:VAL:HG23	1.78	0.83
3:C:164:LEU:HD22	3:C:168:LEU:HD23	1.58	0.83
1:H:308:TRP:O	1:H:310:ALA:N	2.12	0.83
2:I:172:LEU:HD23	2:I:173:HIS:H	1.42	0.83
2:I:173:HIS:CE1	2:I:218:VAL:HG13	2.13	0.83
2:I:188:LEU:HD12	2:I:188:LEU:N	1.94	0.83
3:D:5:GLN:C	3:D:6:LEU:HD12	1.98	0.83
3:D:12:ALA:O	3:D:14:GLY:N	2.11	0.83
3:B:12:ALA:O	3:B:14:GLY:N	2.11	0.83
2:I:132:PRO:O	2:I:134:VAL:N	2.10	0.83
3:C:62:ILE:O	3:C:64:GLU:N	2.11	0.83
3:C:124:ALA:O	3:C:127:LEU:HD13	1.78	0.83
2:G:173:HIS:CE1	2:G:218:VAL:HG13	2.13	0.82
3:C:144:ILE:O	3:C:148:LEU:HG	1.78	0.82
3:D:84:TYR:HB3	3:D:86:LEU:HD21	1.59	0.82
1:F:409:GLY:H	1:F:412:GLN:HB2	1.41	0.82
2:G:229:GLU:O	2:G:230:VAL:HG23	1.79	0.82
3:B:135:SER:OG	3:B:138:GLN:HG3	1.77	0.82
3:B:254:VAL:HB	3:B:270:VAL:HG21	1.59	0.82
1:H:460:PRO:HD2	1:H:474:ILE:HG22	1.62	0.82
1:F:448:THR:O	1:F:450:GLY:N	2.12	0.82
2:I:229:GLU:O	2:I:230:VAL:HG23	1.79	0.82
3:D:11:LYS:HA	3:D:56:THR:CB	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:280:ILE:HD13	1:F:470:TYR:HD1	1.44	0.82
1:F:284:THR:HG21	1:F:467:LEU:N	1.95	0.82
3:A:288:GLU:HG2	3:B:312:ASN:HB2	1.61	0.82
1:F:312:ARG:HD2	1:F:313:GLY:H	1.43	0.82
1:H:280:ILE:HD13	1:H:470:TYR:HD1	1.44	0.82
1:F:308:TRP:O	1:F:310:ALA:N	2.12	0.82
1:H:312:ARG:HD2	1:H:313:GLY:H	1.43	0.82
1:F:327:VAL:CA	2:G:274:ILE:HG21	2.08	0.82
3:A:214:GLN:HG2	3:A:215:VAL:N	1.93	0.81
3:A:317:HIS:C	3:A:318:ILE:HG13	2.00	0.81
1:F:267:VAL:HG22	1:F:488:ALA:N	1.96	0.81
1:F:289:LEU:HD23	1:F:434:PHE:CE2	2.15	0.81
2:G:148:GLY:HA2	2:G:155:GLY:HA3	1.61	0.81
2:G:158:THR:O	2:G:162:VAL:HG23	1.80	0.81
3:B:189:TYR:HD2	3:B:190:VAL:H	1.29	0.81
3:B:236:SER:HB3	3:B:237:PRO:HD3	1.60	0.81
1:H:284:THR:HG21	1:H:467:LEU:N	1.95	0.81
1:H:357:VAL:HG12	1:H:358:LYS:N	1.93	0.81
1:H:448:THR:O	1:H:450:GLY:N	2.12	0.81
2:I:148:GLY:HA2	2:I:155:GLY:HA3	1.60	0.81
2:I:158:THR:O	2:I:162:VAL:HG23	1.80	0.81
3:C:288:GLU:HG2	3:D:312:ASN:HB2	1.61	0.81
3:D:144:ILE:O	3:D:148:LEU:HG	1.80	0.81
1:H:357:VAL:CG1	1:H:358:LYS:H	1.92	0.81
3:D:268:LEU:O	3:D:270:VAL:HG23	1.79	0.81
1:F:87:ILE:HA	1:F:490:ILE:HG22	1.62	0.81
1:F:317:TYR:HE2	2:G:20:LEU:HG	1.43	0.81
3:D:204:ILE:CG2	3:D:205:VAL:H	1.94	0.81
3:D:189:TYR:HD2	3:D:190:VAL:H	1.29	0.81
3:A:256:VAL:HG13	3:A:268:LEU:HD21	1.61	0.81
3:C:183:LEU:HD22	3:C:185:ARG:NH1	1.95	0.81
3:D:170:VAL:O	3:D:173:ARG:HB3	1.81	0.81
3:B:204:ILE:CG2	3:B:205:VAL:H	1.94	0.81
1:H:289:LEU:HD23	1:H:434:PHE:CE2	2.15	0.81
1:F:41:LEU:HD12	1:F:89:ILE:HD11	1.62	0.81
1:F:337:LYS:HZ3	2:G:253:LEU:HG	1.45	0.81
1:H:87:ILE:HA	1:H:490:ILE:HG22	1.62	0.81
1:H:329:SER:O	1:H:333:ILE:HG13	1.81	0.81
3:C:40:CYS:HB2	3:C:42:LYS:CG	2.10	0.81
3:C:236:SER:HB3	3:C:237:PRO:CD	2.11	0.81
3:A:183:LEU:HD22	3:A:185:ARG:NH1	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:241:PHE:HD1	3:A:284:GLY:HA2	1.45	0.80
3:B:144:ILE:O	3:B:148:LEU:HG	1.81	0.80
3:B:170:VAL:O	3:B:173:ARG:HB3	1.81	0.80
1:H:41:LEU:HD12	1:H:89:ILE:HD11	1.62	0.80
1:H:317:TYR:HE2	2:I:20:LEU:HG	1.43	0.80
3:C:241:PHE:HD1	3:C:284:GLY:HA2	1.45	0.80
2:G:153:PHE:O	2:G:158:THR:HG21	1.81	0.80
3:A:236:SER:HB3	3:A:237:PRO:CD	2.11	0.80
1:H:267:VAL:HG22	1:H:488:ALA:N	1.96	0.80
1:H:486:LEU:HD13	1:H:490:ILE:CD1	2.11	0.80
2:G:220:ILE:HG13	2:G:221:LEU:H	1.43	0.80
3:B:268:LEU:O	3:B:270:VAL:HG23	1.79	0.80
3:C:317:HIS:C	3:C:318:ILE:HG13	2.00	0.80
3:A:315:GLN:HA	3:A:329:TYR:O	1.81	0.80
1:F:486:LEU:HD13	1:F:490:ILE:CD1	2.11	0.80
3:A:306:VAL:HG12	3:A:307:VAL:H	1.47	0.80
1:H:346:GLU:CA	1:H:349:MET:HG3	2.12	0.80
2:I:153:PHE:O	2:I:158:THR:HG21	1.81	0.80
2:I:172:LEU:HD23	2:I:173:HIS:N	1.96	0.80
2:G:177:ILE:HD12	2:G:214:ILE:CG2	2.11	0.80
2:I:120:THR:O	2:I:123:LYS:HB3	1.82	0.80
3:D:268:LEU:HD12	3:D:270:VAL:HG21	1.63	0.80
1:F:357:VAL:CG1	1:F:358:LYS:H	1.92	0.80
3:A:87:TYR:H	3:A:95:ASN:HD21	1.29	0.80
1:H:486:LEU:CD2	2:I:135:LEU:HD21	2.07	0.80
1:F:333:ILE:O	1:F:336:PHE:HB2	1.82	0.80
2:G:172:LEU:HD23	2:G:173:HIS:N	1.96	0.80
3:B:241:PHE:C	3:B:242:LEU:HG	2.03	0.80
3:B:285:ILE:HD11	3:B:289:HIS:HB2	1.64	0.80
2:I:220:ILE:HG13	2:I:221:LEU:H	1.43	0.80
1:F:281:PHE:HA	1:F:467:LEU:HD21	1.64	0.79
1:F:460:PRO:HD2	1:F:474:ILE:HG22	1.61	0.79
2:I:177:ILE:HD12	2:I:214:ILE:CG2	2.11	0.79
3:C:315:GLN:HA	3:C:329:TYR:O	1.81	0.79
1:F:312:ARG:CD	1:F:313:GLY:H	1.95	0.79
3:C:256:VAL:HG13	3:C:268:LEU:HD21	1.61	0.79
1:F:330:PHE:CE2	2:G:246:ALA:HA	2.18	0.79
1:F:490:ILE:HG12	2:G:135:LEU:CD2	2.12	0.79
3:B:189:TYR:CD2	3:B:190:VAL:N	2.50	0.79
2:I:35:VAL:C	2:I:37:ILE:H	1.85	0.79
2:G:188:LEU:HD12	2:G:188:LEU:N	1.94	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:336:LEU:O	3:B:337:VAL:HG23	1.82	0.79
1:H:281:PHE:HA	1:H:467:LEU:HD21	1.64	0.79
1:H:330:PHE:CE2	2:I:246:ALA:HA	2.18	0.79
1:H:462:GLY:HA3	1:H:465:ASP:OD2	1.83	0.79
3:C:87:TYR:H	3:C:95:ASN:HD21	1.29	0.79
3:D:189:TYR:CD2	3:D:190:VAL:N	2.50	0.79
2:G:35:VAL:C	2:G:37:ILE:H	1.85	0.79
2:G:202:ALA:O	2:G:206:VAL:HB	1.83	0.79
3:A:12:ALA:O	3:A:14:GLY:N	2.16	0.79
1:H:312:ARG:CD	1:H:313:GLY:H	1.95	0.79
3:D:164:LEU:HD13	3:D:168:LEU:HD23	1.65	0.79
3:C:300:LEU:CD1	3:C:347:LEU:HD23	2.13	0.79
3:D:240:ASN:HD21	3:D:328:VAL:HB	1.48	0.79
3:D:334:VAL:HG12	3:D:335:VAL:N	1.98	0.79
3:D:336:LEU:O	3:D:337:VAL:HG23	1.82	0.79
1:F:100:LEU:HD22	1:F:104:ARG:NE	1.98	0.78
1:F:346:GLU:CA	1:F:349:MET:HG3	2.12	0.78
2:G:120:THR:O	2:G:123:LYS:HB3	1.82	0.78
3:C:12:ALA:O	3:C:14:GLY:N	2.16	0.78
3:D:126:LEU:HD11	3:D:138:GLN:NE2	1.99	0.78
1:F:329:SER:O	1:F:333:ILE:HG13	1.81	0.78
3:A:306:VAL:HG12	3:A:307:VAL:N	1.98	0.78
3:B:268:LEU:HD12	3:B:270:VAL:HG21	1.63	0.78
1:H:333:ILE:O	1:H:336:PHE:HB2	1.82	0.78
3:B:95:ASN:O	3:B:98:PHE:HB2	1.83	0.78
1:H:406:ASP:OD2	3:D:99:GLY:HA2	1.84	0.78
3:C:306:VAL:HG12	3:C:307:VAL:H	1.47	0.78
3:B:126:LEU:HD11	3:B:138:GLN:NE2	1.99	0.78
3:B:334:VAL:HG12	3:B:335:VAL:N	1.98	0.78
1:H:341:ASN:HD22	1:H:344:PHE:HB2	1.47	0.78
1:F:94:TYR:CZ	1:F:99:GLN:HA	2.18	0.78
1:H:94:TYR:CZ	1:H:99:GLN:HA	2.18	0.78
1:H:409:GLY:N	1:H:412:GLN:HB2	1.98	0.78
3:B:240:ASN:HD21	3:B:328:VAL:HB	1.48	0.78
2:I:84:TRP:NE1	2:I:248:GLY:HA3	1.99	0.78
1:F:409:GLY:N	1:F:412:GLN:HB2	1.98	0.78
1:F:341:ASN:HD22	1:F:344:PHE:HB2	1.47	0.78
3:A:300:LEU:CD1	3:A:347:LEU:HD23	2.13	0.78
2:I:202:ALA:O	2:I:206:VAL:HB	1.83	0.78
2:G:13:LEU:O	2:G:17:HIS:HB2	1.84	0.77
3:B:11:LYS:HZ3	3:B:53:GLU:HG3	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:241:PHE:C	3:D:242:LEU:HG	2.03	0.77
1:F:406:ASP:OD2	3:B:99:GLY:HA2	1.84	0.77
3:A:334:VAL:O	3:A:335:VAL:HG23	1.84	0.77
3:D:285:ILE:HD11	3:D:289:HIS:HB2	1.64	0.77
1:F:335:ILE:O	1:F:339:LEU:HG	1.85	0.77
1:F:462:GLY:HA3	1:F:465:ASP:OD2	1.83	0.77
3:A:270:VAL:HG13	3:A:271:GLU:N	1.97	0.77
3:C:270:VAL:HG13	3:C:271:GLU:N	1.97	0.77
3:A:299:ILE:HG22	3:A:300:LEU:H	1.49	0.77
1:H:100:LEU:HD22	1:H:104:ARG:NE	1.98	0.77
1:H:490:ILE:HG12	2:I:135:LEU:CD2	2.12	0.77
3:C:214:GLN:HG2	3:C:215:VAL:H	1.48	0.77
3:C:306:VAL:HG12	3:C:307:VAL:N	1.98	0.77
3:D:60:LEU:HD12	3:D:61:PHE:N	2.00	0.77
3:A:234:ILE:HG22	3:A:235:GLY:H	1.49	0.77
3:A:10:THR:HA	3:A:19:SER:O	1.85	0.77
3:D:95:ASN:O	3:D:98:PHE:HB2	1.83	0.77
2:G:84:TRP:NE1	2:G:248:GLY:HA3	1.99	0.77
2:G:32:LEU:O	2:G:35:VAL:HB	1.85	0.77
2:G:229:GLU:CD	2:G:230:VAL:H	1.88	0.77
3:A:270:VAL:HG22	3:A:362:CYS:HB3	1.66	0.77
2:I:229:GLU:CD	2:I:230:VAL:H	1.88	0.77
3:D:186:THR:O	3:D:187:MET:HG3	1.85	0.77
1:F:468:VAL:HG23	2:G:134:VAL:CG2	2.14	0.77
3:B:244:VAL:HG23	3:B:281:MET:O	1.85	0.77
3:B:164:LEU:HD13	3:B:168:LEU:HD23	1.65	0.76
3:C:55:ILE:HD12	3:C:55:ILE:N	1.99	0.76
3:A:55:ILE:HD12	3:A:55:ILE:N	1.99	0.76
3:B:60:LEU:HD12	3:B:61:PHE:N	2.00	0.76
3:B:100:LEU:HD12	3:B:101:LYS:H	1.50	0.76
3:C:270:VAL:HG22	3:C:362:CYS:HB3	1.66	0.76
3:C:334:VAL:O	3:C:335:VAL:HG23	1.84	0.76
3:C:346:GLY:O	3:C:348:PRO:HD3	1.85	0.76
3:A:369:PRO:O	3:A:371:VAL:HG23	1.86	0.76
1:H:468:VAL:HG23	2:I:134:VAL:CG2	2.14	0.76
3:C:92:VAL:HG13	3:C:142:VAL:HG11	1.68	0.76
3:C:203:LYS:HD3	3:C:215:VAL:CG1	2.16	0.76
3:A:40:CYS:HB2	3:A:42:LYS:CG	2.10	0.76
2:I:32:LEU:O	2:I:35:VAL:HB	1.85	0.76
3:C:10:THR:HA	3:C:19:SER:O	1.85	0.76
3:D:175:GLU:O	3:D:179:LEU:HD23	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:244:VAL:HG23	3:D:281:MET:O	1.85	0.76
2:I:13:LEU:O	2:I:17:HIS:HB2	1.84	0.76
3:A:92:VAL:HG13	3:A:142:VAL:HG11	1.68	0.76
3:C:369:PRO:O	3:C:371:VAL:HG23	1.86	0.76
1:F:77:LEU:O	1:F:81:PHE:HB3	1.86	0.76
3:A:286:ARG:HB3	3:A:288:GLU:OE1	1.86	0.76
3:A:346:GLY:O	3:A:348:PRO:HD3	1.85	0.76
1:H:77:LEU:O	1:H:81:PHE:HB3	1.86	0.76
3:C:178:ARG:O	3:C:182:ARG:HB2	1.86	0.76
3:C:194:GLN:O	3:C:197:ALA:HB3	1.86	0.76
3:D:11:LYS:HZ3	3:D:53:GLU:HG3	1.51	0.76
3:D:145:GLY:HA2	3:D:148:LEU:HD12	1.67	0.76
2:G:36:ALA:C	2:G:37:ILE:HG12	2.05	0.76
3:A:203:LYS:HD3	3:A:215:VAL:CG1	2.16	0.76
3:C:286:ARG:HB3	3:C:288:GLU:OE1	1.86	0.76
3:A:18:VAL:HG13	3:A:18:VAL:O	1.85	0.76
1:H:358:LYS:O	1:H:358:LYS:HG2	1.86	0.76
3:C:299:ILE:HG22	3:C:300:LEU:H	1.49	0.76
3:D:89:HIS:CD2	3:D:90:LEU:HG	2.21	0.76
2:G:244:THR:OG1	2:G:246:ALA:HB3	1.86	0.75
3:B:89:HIS:CD2	3:B:90:LEU:HG	2.22	0.75
3:C:77:VAL:HG12	3:C:78:GLY:H	1.49	0.75
3:A:145:GLY:O	3:A:149:VAL:HG23	1.86	0.75
3:A:178:ARG:O	3:A:182:ARG:HB2	1.86	0.75
3:B:240:ASN:HB2	3:B:285:ILE:O	1.86	0.75
1:H:342:GLN:NE2	1:H:362:PHE:HB2	2.02	0.75
1:H:501:LEU:HD13	2:I:127:ILE:HG23	1.68	0.75
1:F:501:LEU:HD13	2:G:127:ILE:HG23	1.68	0.75
3:C:55:ILE:H	3:C:55:ILE:CD1	2.00	0.75
3:A:353:HIS:NE2	3:A:364:ARG:HD3	2.02	0.75
1:H:270:ASP:HB3	1:H:274:GLN:HB3	1.68	0.75
3:C:18:VAL:HG13	3:C:18:VAL:O	1.85	0.75
3:D:70:THR:HG23	3:D:71:PRO:HD2	1.69	0.75
1:F:396:PRO:HG2	1:F:399:LEU:HD12	1.69	0.75
3:A:188:ILE:H	3:A:188:ILE:HD12	1.51	0.75
3:B:70:THR:HG23	3:B:71:PRO:HD2	1.69	0.75
2:I:36:ALA:C	2:I:37:ILE:HG12	2.05	0.75
2:G:282:GLN:OE1	2:G:282:GLN:HA	1.87	0.75
3:A:194:GLN:O	3:A:197:ALA:HB3	1.86	0.75
3:B:307:VAL:HG12	3:B:309:GLN:NE2	2.01	0.75
2:I:9:GLN:OE1	2:I:9:GLN:HA	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:145:GLY:O	3:C:149:VAL:HG23	1.86	0.75
1:F:270:ASP:HB3	1:F:274:GLN:HB3	1.68	0.75
3:A:77:VAL:HG12	3:A:78:GLY:H	1.49	0.75
2:G:84:TRP:HB3	2:G:245:LEU:HA	1.69	0.74
3:B:186:THR:O	3:B:187:MET:HG3	1.85	0.74
1:H:337:LYS:HZ3	2:I:253:LEU:HG	1.50	0.74
1:F:100:LEU:HB3	1:F:104:ARG:CG	2.15	0.74
1:F:431:ILE:O	1:F:434:PHE:HB3	1.87	0.74
2:G:84:TRP:CD1	2:G:248:GLY:HA3	2.22	0.74
2:G:207:LEU:HA	2:G:210:LEU:HD12	1.69	0.74
3:B:145:GLY:HA2	3:B:148:LEU:HD12	1.67	0.74
3:B:157:LEU:CD2	3:B:160:PRO:HG3	2.15	0.74
1:H:90:ALA:CB	1:H:490:ILE:HD12	2.17	0.74
1:H:335:ILE:O	1:H:339:LEU:HG	1.85	0.74
2:I:207:LEU:HA	2:I:210:LEU:HD12	1.69	0.74
3:D:157:LEU:CD2	3:D:160:PRO:HG3	2.15	0.74
3:D:307:VAL:HG12	3:D:309:GLN:NE2	2.01	0.74
2:I:84:TRP:HB3	2:I:245:LEU:HA	1.69	0.74
3:C:234:ILE:HG22	3:C:235:GLY:H	1.49	0.74
2:I:244:THR:OG1	2:I:246:ALA:HB3	1.86	0.74
3:D:306:VAL:HG12	3:D:307:VAL:H	1.52	0.74
3:A:214:GLN:HG2	3:A:215:VAL:H	1.48	0.74
3:B:175:GLU:O	3:B:179:LEU:HD23	1.85	0.74
3:A:206:VAL:O	3:A:213:ALA:HB3	1.88	0.74
1:H:431:ILE:HG13	1:H:432:ALA:N	2.02	0.74
1:F:328:PRO:HD3	2:G:274:ILE:CG1	2.16	0.74
3:A:40:CYS:SG	3:A:41:GLY:N	2.61	0.74
3:A:116:GLN:O	3:A:120:VAL:HG13	1.87	0.74
3:A:130:LYS:HB2	3:A:131:PRO:CD	2.18	0.74
2:I:84:TRP:CD1	2:I:248:GLY:HA3	2.22	0.74
3:C:130:LYS:HB2	3:C:131:PRO:CD	2.18	0.74
3:D:240:ASN:OD1	3:D:328:VAL:HG23	1.88	0.74
2:G:212:VAL:HG22	2:G:215:LEU:HD12	1.69	0.74
1:F:431:ILE:HG13	1:F:432:ALA:N	2.02	0.74
3:A:241:PHE:CD1	3:A:284:GLY:HA2	2.23	0.74
3:C:188:ILE:H	3:C:188:ILE:HD12	1.52	0.74
3:C:353:HIS:NE2	3:C:364:ARG:HD3	2.02	0.74
3:D:100:LEU:HD12	3:D:101:LYS:H	1.50	0.74
3:D:240:ASN:HB2	3:D:285:ILE:O	1.87	0.74
1:F:90:ALA:CB	1:F:490:ILE:HD12	2.17	0.74
3:B:300:LEU:HB2	3:B:345:ILE:O	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:419:LEU:O	1:H:421:LEU:N	2.19	0.74
3:C:40:CYS:SG	3:C:41:GLY:N	2.61	0.74
1:F:302:LEU:HD22	1:F:321:LEU:HD13	1.70	0.73
1:F:358:LYS:HG2	1:F:358:LYS:O	1.86	0.73
3:A:204:ILE:CG2	3:A:205:VAL:H	2.02	0.73
3:A:254:VAL:O	3:A:268:LEU:HG	1.88	0.73
2:I:162:VAL:HG12	2:I:166:TYR:CE2	2.23	0.73
1:F:498:VAL:HA	1:F:501:LEU:HD12	1.71	0.73
2:I:194:LEU:HA	3:C:73:ALA:HB2	1.70	0.73
3:A:55:ILE:H	3:A:55:ILE:CD1	2.00	0.73
3:B:123:LEU:HD21	3:B:142:VAL:HG22	1.71	0.73
3:C:116:GLN:O	3:C:120:VAL:HG13	1.87	0.73
3:C:241:PHE:CD1	3:C:284:GLY:HA2	2.23	0.73
3:D:298:VAL:HG21	3:D:347:LEU:O	1.89	0.73
1:F:342:GLN:NE2	1:F:362:PHE:HB2	2.02	0.73
3:B:276:GLN:HE21	3:B:277:VAL:HG22	1.54	0.73
3:B:337:VAL:O	3:B:337:VAL:HG12	1.89	0.73
1:H:423:ILE:HD13	1:H:424:LYS:H	1.54	0.73
3:C:254:VAL:O	3:C:268:LEU:HG	1.88	0.73
3:A:123:LEU:CD1	3:A:141:ARG:HH21	2.02	0.73
3:B:298:VAL:HG21	3:B:347:LEU:O	1.89	0.73
2:G:9:GLN:OE1	2:G:9:GLN:HA	1.87	0.73
3:B:84:TYR:CB	3:B:86:LEU:HD21	2.19	0.73
3:B:87:TYR:H	3:B:95:ASN:HD21	1.36	0.73
1:F:296:VAL:HG23	1:F:384:MET:SD	2.29	0.73
1:F:322:ILE:C	1:F:324:PRO:HD2	2.09	0.73
1:H:431:ILE:O	1:H:434:PHE:HB3	1.87	0.73
3:C:344:ALA:O	3:C:345:ILE:HG23	1.89	0.73
3:B:123:LEU:CD2	3:B:142:VAL:HG22	2.19	0.73
3:B:317:HIS:O	3:B:318:ILE:HG13	1.89	0.73
2:I:212:VAL:HG22	2:I:215:LEU:HD12	1.70	0.73
2:G:194:LEU:HA	3:A:73:ALA:HB2	1.70	0.72
3:A:126:LEU:HD13	3:A:134:LEU:HD22	1.71	0.72
1:H:372:LEU:HD12	1:H:443:LEU:CD2	2.19	0.72
1:H:396:PRO:HG2	1:H:399:LEU:HD12	1.68	0.72
3:C:126:LEU:HD13	3:C:134:LEU:HD22	1.71	0.72
3:C:206:VAL:O	3:C:213:ALA:HB3	1.88	0.72
3:A:33:VAL:HG13	3:A:201:ALA:HB2	1.70	0.72
1:H:314:LYS:H	1:H:314:LYS:HD2	1.53	0.72
1:H:322:ILE:C	1:H:324:PRO:HD2	2.09	0.72
3:C:33:VAL:HG13	3:C:201:ALA:HB2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:162:VAL:HG12	2:G:166:TYR:CE2	2.23	0.72
1:H:498:VAL:HA	1:H:501:LEU:HD12	1.71	0.72
3:C:123:LEU:CD1	3:C:141:ARG:HH21	2.02	0.72
3:C:306:VAL:H	3:C:317:HIS:HB2	1.54	0.72
3:D:84:TYR:CB	3:D:86:LEU:HD21	2.19	0.72
3:D:300:LEU:HB2	3:D:345:ILE:O	1.88	0.72
2:G:135:LEU:HG	2:G:138:VAL:CG2	2.19	0.72
3:A:344:ALA:O	3:A:345:ILE:HG23	1.89	0.72
1:H:270:ASP:HB3	1:H:274:GLN:CB	2.20	0.72
2:I:135:LEU:HG	2:I:138:VAL:CG2	2.19	0.72
3:C:204:ILE:CG2	3:C:205:VAL:H	2.02	0.72
1:F:346:GLU:CD	1:F:346:GLU:H	1.92	0.72
3:A:183:LEU:CD2	3:A:185:ARG:HH12	2.01	0.72
3:C:55:ILE:HG12	3:C:68:ASN:ND2	2.05	0.72
3:B:85:ALA:O	3:B:146:ARG:NH2	2.20	0.72
3:B:240:ASN:OD1	3:B:328:VAL:HG23	1.88	0.72
1:H:302:LEU:HD22	1:H:321:LEU:HD13	1.70	0.72
2:I:148:GLY:CA	2:I:155:GLY:HA3	2.19	0.72
3:A:10:THR:HB	3:A:57:SER:HB3	1.69	0.72
3:A:79:MET:CG	3:A:80:VAL:H	2.00	0.72
3:B:306:VAL:HG12	3:B:307:VAL:H	1.52	0.72
2:I:282:GLN:OE1	2:I:282:GLN:HA	1.87	0.72
3:C:156:LEU:O	3:C:157:LEU:HD12	1.90	0.72
3:D:87:TYR:HB3	3:D:89:HIS:CE1	2.24	0.72
3:D:272:SER:O	3:D:275:VAL:HG22	1.88	0.72
3:D:358:ASP:CG	3:D:359:GLY:N	2.43	0.72
2:G:85:LEU:HD22	2:G:245:LEU:HD22	1.72	0.72
3:A:156:LEU:O	3:A:157:LEU:HD12	1.90	0.72
3:B:97:SER:O	3:B:101:LYS:HB2	1.89	0.72
1:F:270:ASP:HB3	1:F:274:GLN:CB	2.19	0.72
2:G:148:GLY:CA	2:G:155:GLY:HA3	2.19	0.72
3:A:55:ILE:HG12	3:A:68:ASN:ND2	2.04	0.72
3:B:298:VAL:HB	3:B:347:LEU:H	1.55	0.72
3:C:33:VAL:C	3:C:34:PHE:HD2	1.94	0.72
3:B:87:TYR:HB3	3:B:89:HIS:CE1	2.24	0.72
1:H:486:LEU:H	1:H:486:LEU:HD12	1.55	0.72
2:I:275:THR:O	2:I:279:LEU:HB2	1.90	0.72
3:C:10:THR:HB	3:C:57:SER:HB3	1.69	0.72
1:F:419:LEU:O	1:F:421:LEU:N	2.19	0.71
1:F:486:LEU:H	1:F:486:LEU:HD12	1.55	0.71
2:G:275:THR:O	2:G:279:LEU:HB2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:301:GLU:HA	3:A:344:ALA:CB	2.20	0.71
1:H:296:VAL:HG23	1:H:384:MET:SD	2.29	0.71
3:D:85:ALA:O	3:D:146:ARG:NH2	2.20	0.71
3:D:169:ARG:NH1	3:D:169:ARG:HB2	2.05	0.71
3:D:337:VAL:O	3:D:337:VAL:HG12	1.89	0.71
1:F:314:LYS:H	1:F:314:LYS:HD2	1.53	0.71
1:F:423:ILE:HD13	1:F:424:LYS:H	1.54	0.71
2:G:244:THR:OG1	2:G:247:VAL:HG23	1.91	0.71
3:B:169:ARG:HB2	3:B:169:ARG:NH1	2.05	0.71
1:H:281:PHE:CA	1:H:467:LEU:HD21	2.20	0.71
3:C:206:VAL:HG11	3:C:230:VAL:HG22	1.72	0.71
3:D:123:LEU:CD2	3:D:142:VAL:HG22	2.19	0.71
3:D:276:GLN:HE21	3:D:277:VAL:HG22	1.54	0.71
3:D:298:VAL:HB	3:D:347:LEU:H	1.55	0.71
1:H:284:THR:HA	1:H:466:LEU:HD22	1.73	0.71
3:D:123:LEU:HD21	3:D:142:VAL:HG22	1.71	0.71
1:F:100:LEU:CD2	1:F:104:ARG:HE	2.03	0.71
1:F:284:THR:HA	1:F:466:LEU:HD22	1.73	0.71
1:F:285:VAL:HG23	1:F:438:PHE:HE2	1.56	0.71
3:A:33:VAL:C	3:A:34:PHE:HD2	1.94	0.71
3:B:272:SER:O	3:B:275:VAL:HG22	1.88	0.71
1:H:423:ILE:HG12	1:H:424:LYS:N	2.06	0.71
3:C:96:MET:HE3	3:C:142:VAL:O	1.91	0.71
2:G:36:ALA:O	2:G:37:ILE:HG23	1.91	0.71
2:I:85:LEU:HD22	2:I:245:LEU:HD22	1.72	0.71
3:C:183:LEU:CD2	3:C:185:ARG:HH12	2.01	0.71
3:C:236:SER:HB3	3:C:237:PRO:HD2	1.71	0.71
3:A:236:SER:HB3	3:A:237:PRO:HD2	1.71	0.71
1:H:457:THR:CG2	1:H:461:ALA:HB3	2.20	0.71
3:C:10:THR:HG22	3:C:11:LYS:N	2.06	0.71
3:C:60:LEU:HD12	3:C:61:PHE:H	1.55	0.71
3:D:317:HIS:O	3:D:318:ILE:HG13	1.89	0.71
3:D:97:SER:O	3:D:101:LYS:HB2	1.89	0.71
3:A:13:TRP:HH2	3:A:53:GLU:OE2	1.74	0.71
3:A:306:VAL:H	3:A:317:HIS:HB2	1.54	0.71
1:F:87:ILE:HA	1:F:490:ILE:HG21	1.71	0.71
3:A:7:GLN:HA	3:A:23:ASN:OD1	1.91	0.71
3:A:270:VAL:HG13	3:A:271:GLU:H	1.55	0.71
3:C:13:TRP:HH2	3:C:53:GLU:OE2	1.74	0.71
1:F:281:PHE:CA	1:F:467:LEU:HD21	2.20	0.71
1:F:284:THR:OG1	1:F:467:LEU:HD23	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:376:ASN:HD22	1:F:379:LEU:HB3	1.56	0.71
1:F:387:LEU:CD2	1:F:429:LEU:HD13	2.15	0.71
1:F:457:THR:CG2	1:F:461:ALA:HB3	2.20	0.71
3:C:301:GLU:HA	3:C:344:ALA:CB	2.20	0.71
1:F:289:LEU:HD23	1:F:434:PHE:HE2	1.56	0.70
1:F:372:LEU:HD12	1:F:443:LEU:CD2	2.19	0.70
3:B:77:VAL:HG12	3:B:78:GLY:N	2.06	0.70
3:C:307:VAL:O	3:C:307:VAL:HG12	1.90	0.70
3:D:350:GLU:HB2	3:D:366:HIS:CE1	2.26	0.70
1:F:362:PHE:O	1:F:452:PRO:HD3	1.91	0.70
1:F:465:ASP:CG	1:F:473:ARG:HH22	1.95	0.70
2:G:93:GLY:HA2	2:G:223:PHE:CE1	2.26	0.70
1:H:322:ILE:HG21	2:I:278:PHE:CE1	2.26	0.70
1:H:387:LEU:CD2	1:H:429:LEU:HD13	2.15	0.70
1:H:465:ASP:CG	1:H:473:ARG:HH22	1.95	0.70
3:C:7:GLN:HA	3:C:23:ASN:OD1	1.91	0.70
1:H:328:PRO:HD3	2:I:274:ILE:CG1	2.16	0.70
2:I:5:GLN:OE1	2:I:7:LYS:HB2	1.91	0.70
3:D:77:VAL:HG12	3:D:78:GLY:N	2.06	0.70
1:F:86:THR:O	1:F:490:ILE:HG21	1.91	0.70
1:F:374:ILE:HD12	1:F:375:VAL:N	2.07	0.70
1:H:376:ASN:HD22	1:H:379:LEU:HB3	1.56	0.70
2:I:36:ALA:O	2:I:37:ILE:HG23	1.91	0.70
2:I:212:VAL:N	2:I:213:PRO:HD2	2.06	0.70
3:D:180:HIS:HA	3:D:187:MET:CE	2.21	0.70
2:G:5:GLN:OE1	2:G:7:LYS:HB2	1.91	0.70
3:A:203:LYS:HD3	3:A:215:VAL:HG11	1.73	0.70
3:A:206:VAL:HG11	3:A:230:VAL:HG22	1.72	0.70
1:H:87:ILE:HA	1:H:490:ILE:HG21	1.71	0.70
2:I:244:THR:OG1	2:I:247:VAL:HG23	1.91	0.70
2:I:254:ASN:HB2	2:I:255:PRO:HD2	1.73	0.70
1:F:322:ILE:HG21	2:G:278:PHE:CE1	2.26	0.70
2:G:198:THR:OG1	2:G:199:PRO:HD2	1.91	0.70
2:G:212:VAL:N	2:G:213:PRO:HD2	2.06	0.70
3:A:60:LEU:HD12	3:A:61:PHE:H	1.56	0.70
3:A:178:ARG:O	3:A:181:LYS:HG2	1.92	0.70
1:H:374:ILE:HD12	1:H:375:VAL:N	2.07	0.70
2:I:18:LEU:HD23	2:I:19:LEU:N	2.07	0.70
3:B:10:THR:HB	3:B:57:SER:HB2	1.73	0.70
1:H:100:LEU:HB3	1:H:104:ARG:CG	2.15	0.70
1:H:285:VAL:HG23	1:H:438:PHE:HE2	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:362:PHE:O	1:H:452:PRO:HD3	1.91	0.70
1:F:298:VAL:HG12	1:F:302:LEU:HD12	1.73	0.70
3:A:91:SER:HB2	3:A:129:ARG:O	1.92	0.70
3:A:267:TRP:C	3:A:268:LEU:HD23	2.12	0.70
3:A:334:VAL:HG12	3:A:335:VAL:N	2.06	0.70
3:B:174:ILE:O	3:B:177:SER:HB3	1.92	0.70
3:C:91:SER:HB2	3:C:129:ARG:O	1.91	0.70
3:D:87:TYR:H	3:D:95:ASN:HD21	1.36	0.70
1:F:423:ILE:HG12	1:F:424:LYS:N	2.06	0.70
3:B:350:GLU:HB2	3:B:366:HIS:CE1	2.26	0.70
1:H:86:THR:O	1:H:490:ILE:HG21	1.91	0.70
1:H:298:VAL:HG12	1:H:302:LEU:HD12	1.72	0.70
3:C:203:LYS:HD3	3:C:215:VAL:HG11	1.73	0.70
3:D:174:ILE:O	3:D:177:SER:HB3	1.92	0.70
3:A:153:SER:O	3:A:185:ARG:HB3	1.92	0.70
3:B:18:VAL:HG13	3:B:19:SER:N	2.07	0.70
3:B:34:PHE:N	3:B:34:PHE:HD2	1.90	0.70
3:B:180:HIS:HA	3:B:187:MET:CE	2.21	0.70
3:B:358:ASP:CG	3:B:359:GLY:N	2.43	0.70
3:B:368:GLU:HB3	3:B:369:PRO:CD	2.20	0.70
1:H:346:GLU:H	1:H:346:GLU:CD	1.92	0.70
3:C:130:LYS:HB2	3:C:131:PRO:HD2	1.74	0.70
3:A:10:THR:HG22	3:A:11:LYS:N	2.06	0.69
3:A:353:HIS:CD2	3:A:364:ARG:HD3	2.27	0.69
2:I:93:GLY:HA2	2:I:223:PHE:CE1	2.26	0.69
3:C:178:ARG:O	3:C:181:LYS:HG2	1.92	0.69
3:D:10:THR:HB	3:D:57:SER:HB2	1.73	0.69
1:F:371:MET:SD	1:F:447:LEU:HD11	2.33	0.69
2:I:249:MET:SD	2:I:266:ALA:HB1	2.32	0.69
2:I:198:THR:OG1	2:I:199:PRO:HD2	1.91	0.69
3:C:65:LYS:CD	3:C:65:LYS:H	2.03	0.69
3:C:353:HIS:CD2	3:C:364:ARG:HD3	2.27	0.69
3:D:34:PHE:HB2	3:D:190:VAL:HG22	1.74	0.69
3:B:34:PHE:HB2	3:B:190:VAL:HG22	1.74	0.69
1:H:289:LEU:HD23	1:H:434:PHE:HE2	1.55	0.69
2:I:265:ALA:O	2:I:268:VAL:HB	1.93	0.69
3:C:334:VAL:HG12	3:C:335:VAL:N	2.06	0.69
3:D:316:ILE:HG22	3:D:317:HIS:O	1.92	0.69
3:A:307:VAL:O	3:A:307:VAL:HG12	1.90	0.69
1:H:284:THR:OG1	1:H:467:LEU:HD23	1.91	0.69
3:A:130:LYS:HB2	3:A:131:PRO:HD2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:316:ILE:HG22	3:B:317:HIS:O	1.92	0.69
1:H:286:VAL:O	1:H:290:ILE:HG12	1.93	0.69
1:F:486:LEU:CD2	2:G:135:LEU:HD21	2.07	0.69
2:G:18:LEU:HD23	2:G:19:LEU:N	2.07	0.69
1:F:468:VAL:HG23	2:G:134:VAL:HG23	1.74	0.69
2:G:284:TRP:O	2:G:286:VAL:N	2.26	0.69
3:A:76:GLY:O	3:A:152:PRO:HB2	1.93	0.69
3:A:88:PRO:HA	3:A:131:PRO:HG2	1.75	0.69
3:A:96:MET:HE3	3:A:142:VAL:O	1.92	0.69
3:B:4:VAL:HG13	3:B:26:ILE:HB	1.75	0.69
1:H:510:ARG:HG3	2:I:175:TRP:CH2	2.28	0.69
3:C:214:GLN:CG	3:C:215:VAL:H	2.05	0.69
3:C:270:VAL:CG2	3:C:362:CYS:HB3	2.23	0.69
3:D:4:VAL:HG13	3:D:26:ILE:HB	1.75	0.69
3:D:276:GLN:NE2	3:D:277:VAL:HG22	2.07	0.69
2:G:249:MET:SD	2:G:266:ALA:HB1	2.33	0.69
2:G:254:ASN:HB2	2:G:255:PRO:HD2	1.73	0.69
3:C:267:TRP:C	3:C:268:LEU:HD23	2.12	0.69
3:D:11:LYS:HG3	3:D:12:ALA:H	1.58	0.69
3:A:65:LYS:CD	3:A:65:LYS:H	2.03	0.69
3:A:188:ILE:HD12	3:A:188:ILE:N	2.08	0.69
1:H:374:ILE:HD12	1:H:374:ILE:C	2.13	0.69
3:D:34:PHE:HD2	3:D:34:PHE:N	1.90	0.69
3:A:11:LYS:CA	3:A:56:THR:HB	2.23	0.68
3:A:180:HIS:O	3:A:184:GLY:N	2.26	0.68
3:B:194:GLN:O	3:B:197:ALA:HB3	1.94	0.68
1:H:100:LEU:CD2	1:H:104:ARG:HE	2.03	0.68
3:C:112:GLN:O	3:C:116:GLN:HB2	1.93	0.68
1:F:510:ARG:HG3	2:G:175:TRP:CH2	2.28	0.68
2:G:265:ALA:O	2:G:268:VAL:HB	1.93	0.68
1:H:284:THR:HG21	1:H:467:LEU:HD23	1.75	0.68
3:C:270:VAL:HG13	3:C:271:GLU:H	1.55	0.68
3:B:354:LEU:HD12	3:B:355:PHE:H	1.59	0.68
2:I:284:TRP:O	2:I:286:VAL:N	2.26	0.68
3:C:11:LYS:CA	3:C:56:THR:HB	2.23	0.68
3:D:287:PRO:HA	3:D:290:LEU:HD12	1.75	0.68
3:D:306:VAL:HG12	3:D:307:VAL:N	2.08	0.68
1:F:279:ALA:HB1	1:F:454:ARG:NH2	2.08	0.68
3:A:65:LYS:H	3:A:65:LYS:HD3	1.58	0.68
3:A:270:VAL:CG2	3:A:362:CYS:HB3	2.23	0.68
3:B:11:LYS:NZ	3:B:53:GLU:HG3	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:339:LEU:O	1:H:345:GLY:HA3	1.94	0.68
3:D:32:VAL:HG12	3:D:33:VAL:H	1.57	0.68
3:D:223:HIS:O	3:D:225:PRO:HD3	1.93	0.68
1:F:284:THR:HG21	1:F:467:LEU:HD23	1.75	0.68
3:A:214:GLN:CG	3:A:215:VAL:H	2.05	0.68
3:A:316:ILE:O	3:A:329:TYR:HB3	1.93	0.68
3:B:32:VAL:HG12	3:B:33:VAL:H	1.58	0.68
3:B:100:LEU:HD13	3:B:110:ILE:HG12	1.76	0.68
3:B:311:GLY:C	3:B:313:GLU:H	1.96	0.68
3:C:33:VAL:CG1	3:C:201:ALA:HB2	2.23	0.68
3:C:65:LYS:H	3:C:65:LYS:HD3	1.58	0.68
3:C:316:ILE:O	3:C:329:TYR:HB3	1.93	0.68
1:F:286:VAL:O	1:F:290:ILE:HG12	1.93	0.68
3:A:33:VAL:CG1	3:A:201:ALA:HB2	2.23	0.68
3:A:262:ASN:OD1	3:A:264:GLN:HG3	1.93	0.68
2:I:103:SER:OG	2:I:170:ILE:HG22	1.94	0.68
3:C:180:HIS:O	3:C:184:GLY:N	2.26	0.68
3:A:81:PHE:H	3:A:81:PHE:HD1	1.42	0.68
1:H:371:MET:SD	1:H:447:LEU:HD11	2.33	0.68
3:C:262:ASN:OD1	3:C:264:GLN:HG3	1.93	0.68
3:D:10:THR:HG22	3:D:11:LYS:H	1.58	0.68
3:B:276:GLN:NE2	3:B:277:VAL:HG22	2.08	0.68
3:B:287:PRO:HA	3:B:290:LEU:HD12	1.75	0.68
3:C:336:LEU:O	3:C:337:VAL:HG23	1.94	0.68
3:C:368:GLU:CG	3:C:369:PRO:HD2	2.23	0.68
3:D:18:VAL:HG13	3:D:19:SER:N	2.07	0.68
3:D:194:GLN:O	3:D:197:ALA:HB3	1.94	0.68
3:B:34:PHE:N	3:B:34:PHE:CD2	2.62	0.68
3:B:83:SER:O	3:B:84:TYR:CG	2.47	0.68
1:H:87:ILE:HG12	1:H:494:ILE:CB	2.24	0.68
2:I:23:PHE:O	2:I:27:ILE:HG12	1.94	0.68
2:I:129:GLN:O	2:I:131:PHE:N	2.25	0.68
3:C:81:PHE:CD1	3:C:81:PHE:N	2.59	0.68
1:F:366:THR:CG2	1:F:367:THR:N	2.57	0.68
3:A:231:ALA:HB1	3:A:239:MET:SD	2.34	0.68
3:B:306:VAL:O	3:B:316:ILE:HG23	1.94	0.68
1:H:337:LYS:HZ3	2:I:253:LEU:CD1	2.07	0.68
3:C:76:GLY:O	3:C:152:PRO:HB2	1.93	0.68
3:C:153:SER:O	3:C:185:ARG:HB3	1.92	0.68
3:C:231:ALA:HB1	3:C:239:MET:SD	2.34	0.68
3:A:112:GLN:O	3:A:116:GLN:HB2	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:330:ARG:NH1	3:B:312:ASN:OD1	2.26	0.67
3:B:244:VAL:HG23	3:B:281:MET:C	2.15	0.67
1:H:280:ILE:HD12	1:H:467:LEU:HA	1.77	0.67
1:H:335:ILE:CD1	1:H:339:LEU:HD11	2.25	0.67
1:H:468:VAL:HG23	2:I:134:VAL:HG23	1.74	0.67
3:C:188:ILE:HD12	3:C:188:ILE:N	2.08	0.67
1:F:317:TYR:O	1:F:321:LEU:HG	1.95	0.67
1:F:330:PHE:HE2	2:G:246:ALA:O	1.76	0.67
1:F:374:ILE:HD12	1:F:374:ILE:C	2.13	0.67
3:A:315:GLN:HE21	3:A:330:ARG:CG	2.05	0.67
3:B:10:THR:HG22	3:B:11:LYS:H	1.58	0.67
3:B:223:HIS:O	3:B:225:PRO:HD3	1.93	0.67
3:C:79:MET:CG	3:C:80:VAL:H	2.00	0.67
3:D:100:LEU:HD13	3:D:110:ILE:HG12	1.76	0.67
3:B:258:LEU:HD22	3:B:258:LEU:N	2.10	0.67
3:B:306:VAL:HG12	3:B:307:VAL:N	2.08	0.67
1:H:279:ALA:HB1	1:H:454:ARG:NH2	2.08	0.67
3:C:138:GLN:O	3:C:142:VAL:HG23	1.95	0.67
1:H:87:ILE:O	1:H:90:ALA:HB3	1.95	0.67
3:C:86:LEU:O	3:C:88:PRO:HD3	1.94	0.67
3:D:306:VAL:O	3:D:316:ILE:HG23	1.94	0.67
3:D:344:ALA:O	3:D:345:ILE:HG23	1.95	0.67
1:F:280:ILE:HD12	1:F:467:LEU:HA	1.76	0.67
1:F:337:LYS:HZ3	2:G:253:LEU:CG	2.07	0.67
3:C:315:GLN:HE21	3:C:330:ARG:CG	2.05	0.67
1:F:365:PRO:HG3	1:F:452:PRO:HG3	1.76	0.67
2:G:3:MET:HE3	3:B:72:PRO:HG2	1.77	0.67
2:G:274:ILE:O	2:G:278:PHE:HB3	1.95	0.67
3:A:336:LEU:O	3:A:337:VAL:HG23	1.94	0.67
1:F:87:ILE:O	1:F:90:ALA:HB3	1.95	0.67
2:G:103:SER:OG	2:G:170:ILE:HG22	1.94	0.67
3:A:368:GLU:CG	3:A:369:PRO:HD2	2.23	0.67
3:B:289:HIS:CE1	3:B:351:ARG:HD2	2.30	0.67
1:H:365:PRO:HG3	1:H:452:PRO:HG3	1.76	0.67
3:D:244:VAL:HG23	3:D:281:MET:C	2.15	0.67
3:D:287:PRO:HB3	3:D:330:ARG:H	1.59	0.67
3:A:81:PHE:CD1	3:A:81:PHE:N	2.59	0.67
2:I:21:LEU:O	2:I:24:ILE:HG13	1.95	0.67
3:D:311:GLY:C	3:D:313:GLU:H	1.96	0.67
3:D:354:LEU:HD12	3:D:355:PHE:H	1.59	0.67
1:F:468:VAL:O	1:F:471:THR:HB	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:86:LEU:O	3:A:88:PRO:HD3	1.94	0.67
3:B:6:LEU:O	3:B:7:GLN:HG3	1.95	0.67
1:H:366:THR:CG2	1:H:367:THR:N	2.57	0.67
3:C:310:LEU:O	3:C:310:LEU:HD23	1.95	0.67
3:D:4:VAL:CG2	3:D:5:GLN:N	2.58	0.67
1:F:419:LEU:C	1:F:421:LEU:H	1.97	0.67
1:F:460:PRO:HD2	1:F:474:ILE:CG2	2.25	0.67
3:B:55:ILE:HG21	3:B:68:ASN:CG	2.16	0.67
1:H:283:TRP:NE1	1:H:464:THR:O	2.29	0.67
1:H:460:PRO:HD2	1:H:474:ILE:CG2	2.25	0.67
1:H:468:VAL:O	1:H:471:THR:HB	1.95	0.67
2:I:274:ILE:O	2:I:278:PHE:HB3	1.95	0.67
3:C:5:GLN:C	3:C:6:LEU:HD12	2.16	0.67
3:D:11:LYS:NZ	3:D:53:GLU:HG3	2.09	0.67
3:B:11:LYS:HG3	3:B:12:ALA:H	1.58	0.66
3:B:344:ALA:O	3:B:345:ILE:HG23	1.95	0.66
3:D:258:LEU:HD22	3:D:258:LEU:N	2.10	0.66
1:F:339:LEU:O	1:F:345:GLY:HA3	1.94	0.66
2:G:129:GLN:O	2:G:131:PHE:N	2.25	0.66
3:A:10:THR:HG22	3:A:11:LYS:H	1.60	0.66
3:B:240:ASN:ND2	3:B:328:VAL:HB	2.10	0.66
3:B:258:LEU:HD22	3:B:258:LEU:H	1.60	0.66
1:H:82:PRO:HG3	2:I:143:LEU:HD22	1.77	0.66
3:D:40:CYS:SG	3:D:41:GLY:N	2.69	0.66
3:D:281:MET:HB3	3:D:354:LEU:HD11	1.76	0.66
1:F:79:VAL:HG22	2:G:168:GLY:HA3	1.78	0.66
1:F:86:THR:O	1:F:90:ALA:HB2	1.94	0.66
1:F:335:ILE:CD1	1:F:339:LEU:HD11	2.25	0.66
3:A:223:HIS:C	3:A:225:PRO:HD3	2.16	0.66
3:B:281:MET:HB3	3:B:354:LEU:HD11	1.76	0.66
1:H:100:LEU:CB	1:H:104:ARG:HG3	2.19	0.66
1:H:330:PHE:HE2	2:I:246:ALA:O	1.77	0.66
3:D:240:ASN:ND2	3:D:328:VAL:HB	2.10	0.66
1:F:87:ILE:HG12	1:F:494:ILE:CB	2.24	0.66
2:G:24:ILE:O	2:G:28:MET:HG2	1.94	0.66
3:A:84:TYR:OH	3:A:163:ASN:HB2	1.95	0.66
3:B:249:THR:OG1	3:B:250:ALA:N	2.28	0.66
3:B:287:PRO:HB3	3:B:330:ARG:H	1.59	0.66
1:H:91:PHE:O	1:H:263:ASN:ND2	2.29	0.66
1:H:419:LEU:C	1:H:421:LEU:H	1.98	0.66
3:D:6:LEU:O	3:D:7:GLN:HG3	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:353:HIS:CD2	3:D:364:ARG:HD3	2.30	0.66
1:F:91:PHE:O	1:F:263:ASN:ND2	2.29	0.66
1:F:284:THR:HG21	1:F:467:LEU:H	1.61	0.66
3:A:138:GLN:O	3:A:142:VAL:HG23	1.95	0.66
3:B:40:CYS:SG	3:B:41:GLY:N	2.69	0.66
3:B:353:HIS:CD2	3:B:364:ARG:HD3	2.30	0.66
1:H:86:THR:O	1:H:90:ALA:HB2	1.95	0.66
3:C:291:LEU:O	3:C:346:GLY:N	2.27	0.66
3:D:18:VAL:CG1	3:D:19:SER:N	2.59	0.66
3:D:83:SER:O	3:D:84:TYR:CG	2.47	0.66
1:F:332:SER:O	1:F:335:ILE:HG13	1.96	0.66
1:F:381:TYR:CD1	1:F:382:PRO:HD3	2.31	0.66
2:G:23:PHE:O	2:G:27:ILE:HG12	1.94	0.66
1:H:317:TYR:O	1:H:321:LEU:HG	1.94	0.66
1:H:332:SER:O	1:H:335:ILE:HG13	1.96	0.66
3:C:88:PRO:HA	3:C:131:PRO:HG2	1.75	0.66
3:C:363:ARG:HG3	3:C:363:ARG:O	1.95	0.66
3:D:289:HIS:CE1	3:D:351:ARG:HD2	2.30	0.66
1:F:396:PRO:HG2	1:F:399:LEU:HB2	1.78	0.66
2:G:21:LEU:O	2:G:24:ILE:HG13	1.95	0.66
3:B:274:ASP:HB3	3:B:356:ARG:HH21	1.61	0.66
2:I:24:ILE:O	2:I:28:MET:HG2	1.94	0.66
3:D:55:ILE:HG21	3:D:68:ASN:CG	2.15	0.66
1:F:457:THR:HG21	1:F:461:ALA:HB3	1.78	0.66
1:F:499:GLY:O	1:F:503:ILE:HG12	1.96	0.66
2:G:25:ALA:O	2:G:28:MET:HB2	1.95	0.66
1:H:267:VAL:HG13	1:H:488:ALA:HA	1.77	0.66
1:H:499:GLY:O	1:H:503:ILE:HG12	1.96	0.66
3:D:23:ASN:O	3:D:24:LEU:HD23	1.96	0.66
3:D:298:VAL:CG1	3:D:347:LEU:HB3	2.23	0.66
1:F:306:VAL:HG21	1:F:385:MET:HE1	1.78	0.66
3:A:126:LEU:HD11	3:A:138:GLN:NE2	2.11	0.66
3:A:291:LEU:O	3:A:346:GLY:N	2.27	0.66
3:A:310:LEU:HD23	3:A:310:LEU:O	1.95	0.66
3:B:4:VAL:CG2	3:B:5:GLN:N	2.58	0.66
1:H:384:MET:O	1:H:388:CYS:HB2	1.96	0.66
3:C:299:ILE:HG22	3:C:300:LEU:N	2.11	0.66
3:C:351:ARG:O	3:C:352:CYS:O	2.14	0.66
1:F:267:VAL:HG13	1:F:488:ALA:HA	1.77	0.66
1:F:488:ALA:O	1:F:492:THR:HG22	1.96	0.66
3:A:315:GLN:NE2	3:A:330:ARG:HG2	2.06	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:242:LEU:CD1	3:B:283:LEU:HB3	2.26	0.66
2:I:25:ALA:O	2:I:28:MET:HB2	1.95	0.66
1:F:330:PHE:CD1	1:F:331:ILE:N	2.64	0.65
1:F:423:ILE:CD1	1:F:424:LYS:H	2.08	0.65
3:A:236:SER:O	3:A:237:PRO:O	2.14	0.65
3:A:363:ARG:HG3	3:A:363:ARG:O	1.95	0.65
3:B:23:ASN:O	3:B:24:LEU:HD23	1.96	0.65
1:H:410:PRO:O	1:H:413:ASN:HB2	1.96	0.65
1:H:423:ILE:CD1	1:H:424:LYS:H	2.08	0.65
2:I:146:ARG:HA	2:I:149:GLU:OE2	1.96	0.65
3:C:10:THR:HG22	3:C:11:LYS:H	1.60	0.65
3:C:11:LYS:HA	3:C:56:THR:OG1	1.96	0.65
1:F:82:PRO:HG3	2:G:143:LEU:HD22	1.77	0.65
3:A:299:ILE:HG22	3:A:300:LEU:N	2.11	0.65
3:A:351:ARG:HE	3:A:368:GLU:CD	1.99	0.65
1:H:88:ALA:O	1:H:263:ASN:ND2	2.28	0.65
1:H:486:LEU:HD12	1:H:486:LEU:N	2.11	0.65
2:I:174:VAL:HA	2:I:177:ILE:HG22	1.78	0.65
3:C:81:PHE:H	3:C:81:PHE:HD1	1.42	0.65
3:D:242:LEU:CD1	3:D:283:LEU:HB3	2.26	0.65
1:F:486:LEU:HD12	1:F:486:LEU:N	2.11	0.65
2:G:126:LEU:HD22	2:G:127:ILE:HG13	1.77	0.65
2:G:141:TYR:CE1	2:G:156:LEU:HD11	2.32	0.65
3:A:5:GLN:C	3:A:6:LEU:HD12	2.16	0.65
1:H:337:LYS:HZ3	2:I:253:LEU:CG	2.09	0.65
3:C:126:LEU:HD11	3:C:138:GLN:NE2	2.11	0.65
3:C:351:ARG:HE	3:C:368:GLU:CD	1.99	0.65
1:F:384:MET:O	1:F:388:CYS:HB2	1.96	0.65
2:G:187:SER:HA	2:G:190:GLU:HG3	1.78	0.65
3:A:85:ALA:C	3:A:86:LEU:HD23	2.16	0.65
3:A:306:VAL:O	3:A:316:ILE:HG23	1.97	0.65
1:H:457:THR:HG21	1:H:461:ALA:HB3	1.78	0.65
1:H:510:ARG:O	1:H:511:MET:HG3	1.97	0.65
2:I:141:TYR:CE1	2:I:156:LEU:HD11	2.32	0.65
3:D:368:GLU:HB3	3:D:369:PRO:CD	2.21	0.65
1:F:468:VAL:HG13	1:F:469:ASN:N	2.11	0.65
3:B:18:VAL:CG1	3:B:19:SER:N	2.59	0.65
3:B:188:ILE:N	3:B:188:ILE:CD1	2.60	0.65
1:H:79:VAL:HG22	2:I:168:GLY:HA3	1.77	0.65
1:H:81:PHE:HB3	1:H:82:PRO:HD3	1.78	0.65
1:H:396:PRO:HG2	1:H:399:LEU:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:12:ALA:HA	3:C:17:VAL:HA	1.79	0.65
3:C:174:ILE:HG22	3:C:178:ARG:HG3	1.77	0.65
1:F:100:LEU:CB	1:F:104:ARG:HG3	2.19	0.65
2:G:92:ALA:HA	2:G:226:ALA:CB	2.27	0.65
3:A:121:LEU:O	3:A:123:LEU:HD13	1.97	0.65
3:A:219:LEU:O	3:A:222:TYR:N	2.30	0.65
3:B:298:VAL:CG1	3:B:347:LEU:HB3	2.23	0.65
1:H:468:VAL:HG13	1:H:469:ASN:N	2.11	0.65
3:D:274:ASP:HB3	3:D:356:ARG:HH21	1.61	0.65
1:F:410:PRO:O	1:F:413:ASN:HB2	1.96	0.65
2:G:146:ARG:HA	2:G:149:GLU:OE2	1.96	0.65
2:G:174:VAL:HA	2:G:177:ILE:HG22	1.78	0.65
3:A:29:GLY:HA2	3:A:184:GLY:O	1.96	0.65
3:A:174:ILE:HG22	3:A:178:ARG:HG3	1.77	0.65
1:H:488:ALA:O	1:H:492:THR:HG22	1.96	0.65
3:B:96:MET:O	3:B:98:PHE:N	2.27	0.65
1:H:330:PHE:CD1	1:H:331:ILE:N	2.64	0.65
3:C:29:GLY:HA2	3:C:184:GLY:O	1.96	0.65
3:C:186:THR:O	3:C:187:MET:HG3	1.95	0.65
3:C:219:LEU:O	3:C:222:TYR:N	2.30	0.65
1:F:360:ALA:HB1	1:F:363:SER:HB2	1.79	0.65
3:A:40:CYS:HB3	3:A:42:LYS:HZ1	1.62	0.65
3:C:121:LEU:O	3:C:123:LEU:HD13	1.97	0.65
3:C:236:SER:O	3:C:237:PRO:O	2.14	0.65
3:C:354:LEU:O	3:C:362:CYS:HB2	1.96	0.65
1:F:81:PHE:HB3	1:F:82:PRO:HD3	1.78	0.65
1:F:283:TRP:NE1	1:F:464:THR:O	2.28	0.65
1:F:497:LEU:HD22	2:G:131:PHE:HD2	1.63	0.65
3:A:214:GLN:CG	3:A:215:VAL:N	2.59	0.65
3:C:84:TYR:OH	3:C:163:ASN:HB2	1.95	0.65
3:A:351:ARG:O	3:A:352:CYS:O	2.14	0.64
3:B:4:VAL:HG22	3:B:5:GLN:N	2.13	0.64
1:H:306:VAL:HG21	1:H:385:MET:HE1	1.77	0.64
3:D:34:PHE:N	3:D:34:PHE:CD2	2.62	0.64
3:D:285:ILE:HD12	3:D:286:ARG:H	1.62	0.64
1:F:337:LYS:HZ3	2:G:253:LEU:CD1	2.11	0.64
3:A:156:LEU:C	3:A:157:LEU:HD12	2.18	0.64
3:A:354:LEU:O	3:A:362:CYS:HB2	1.96	0.64
1:H:337:LYS:HG3	1:H:362:PHE:HZ	1.62	0.64
1:H:381:TYR:CD1	1:H:382:PRO:HD3	2.31	0.64
2:I:187:SER:HA	2:I:190:GLU:HG3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:223:HIS:C	3:C:225:PRO:HD3	2.16	0.64
1:F:510:ARG:O	1:F:511:MET:HG3	1.97	0.64
2:G:204:ARG:O	2:G:209:PRO:CD	2.45	0.64
3:A:28:GLU:HG3	3:A:29:GLY:N	2.11	0.64
3:A:133:ALA:O	3:A:134:LEU:HG	1.97	0.64
3:B:285:ILE:HD12	3:B:286:ARG:H	1.62	0.64
3:B:314:THR:HG22	3:B:315:GLN:N	2.12	0.64
3:C:307:VAL:HG23	3:C:339:GLU:HG2	1.79	0.64
1:F:497:LEU:HD22	2:G:131:PHE:CD2	2.33	0.64
1:H:414:PHE:CE1	1:H:419:LEU:HD12	2.32	0.64
3:C:65:LYS:HD3	3:C:65:LYS:N	2.13	0.64
3:C:85:ALA:C	3:C:86:LEU:HD23	2.16	0.64
3:D:4:VAL:HG22	3:D:5:GLN:N	2.13	0.64
3:D:314:THR:HG22	3:D:315:GLN:N	2.12	0.64
3:A:11:LYS:HA	3:A:56:THR:OG1	1.96	0.64
3:A:12:ALA:HA	3:A:17:VAL:HA	1.79	0.64
3:A:190:VAL:HG12	3:A:191:THR:N	2.12	0.64
3:A:270:VAL:CG1	3:A:271:GLU:N	2.61	0.64
3:A:307:VAL:HG23	3:A:339:GLU:HG2	1.79	0.64
1:H:360:ALA:HB1	1:H:363:SER:HB2	1.78	0.64
2:I:126:LEU:HD22	2:I:127:ILE:HG13	1.77	0.64
3:C:28:GLU:HG3	3:C:29:GLY:N	2.11	0.64
3:C:164:LEU:HD13	3:C:168:LEU:HG	1.79	0.64
3:D:371:VAL:O	3:D:371:VAL:HG12	1.96	0.64
2:G:281:ALA:O	2:G:284:TRP:HB2	1.97	0.64
3:A:298:VAL:HB	3:A:347:LEU:HB3	1.78	0.64
3:B:5:GLN:O	3:B:6:LEU:HD12	1.98	0.64
3:B:34:PHE:C	3:B:35:VAL:HG22	2.17	0.64
3:C:270:VAL:CG1	3:C:271:GLU:N	2.61	0.64
3:C:306:VAL:O	3:C:316:ILE:HG23	1.97	0.64
3:D:96:MET:HE2	3:D:114:VAL:HG13	1.79	0.64
3:D:227:ASP:HB2	3:D:359:GLY:O	1.98	0.64
1:H:422:LEU:HD23	1:H:425:PRO:HG3	1.80	0.64
2:I:92:ALA:HA	2:I:226:ALA:CB	2.27	0.64
3:C:83:SER:O	3:C:84:TYR:CG	2.51	0.64
3:C:133:ALA:O	3:C:134:LEU:HG	1.97	0.64
3:C:190:VAL:HG12	3:C:191:THR:N	2.12	0.64
3:C:298:VAL:HB	3:C:347:LEU:HB3	1.78	0.64
3:C:330:ARG:NH1	3:D:312:ASN:OD1	2.26	0.64
3:D:249:THR:OG1	3:D:250:ALA:N	2.28	0.64
3:A:186:THR:O	3:A:187:MET:HG3	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:186:THR:HG22	3:A:187:MET:N	2.13	0.64
2:I:204:ARG:O	2:I:209:PRO:CD	2.45	0.64
3:C:169:ARG:HD3	3:C:193:ASP:OD2	1.98	0.64
1:F:486:LEU:CD1	1:F:490:ILE:HD11	2.26	0.64
2:G:194:LEU:HD23	3:A:72:PRO:HB2	1.80	0.64
3:A:224:TYR:CE2	3:A:371:VAL:HG11	2.33	0.64
3:B:292:PRO:C	3:B:345:ILE:HG22	2.19	0.64
3:B:336:LEU:O	3:B:337:VAL:CG2	2.45	0.64
1:H:373:ILE:CG1	1:H:374:ILE:N	2.59	0.64
1:H:497:LEU:HD22	2:I:131:PHE:HD2	1.63	0.64
2:I:187:SER:HA	2:I:190:GLU:CG	2.28	0.64
3:D:354:LEU:HG	3:D:355:PHE:N	2.12	0.64
1:F:278:LEU:H	1:F:278:LEU:HD22	1.62	0.64
2:G:187:SER:HA	2:G:190:GLU:CG	2.28	0.64
3:A:83:SER:O	3:A:84:TYR:CG	2.51	0.64
3:A:334:VAL:O	3:A:335:VAL:CG2	2.46	0.64
1:H:278:LEU:HD22	1:H:278:LEU:H	1.62	0.64
1:H:298:VAL:O	1:H:302:LEU:HB2	1.97	0.64
2:I:115:PHE:HB2	2:I:116:PRO:CD	2.23	0.64
3:D:34:PHE:C	3:D:35:VAL:HG22	2.17	0.64
1:F:337:LYS:HG3	1:F:362:PHE:HZ	1.62	0.63
3:B:334:VAL:CG1	3:B:335:VAL:N	2.61	0.63
1:H:41:LEU:CD1	1:H:89:ILE:HD11	2.28	0.63
1:H:501:LEU:HD13	2:I:127:ILE:CG2	2.28	0.63
2:I:28:MET:SD	2:I:31:LEU:HD11	2.38	0.63
2:I:254:ASN:HB2	2:I:255:PRO:HD3	1.80	0.63
3:C:186:THR:HG22	3:C:187:MET:N	2.13	0.63
3:C:240:ASN:ND2	3:C:327:LEU:HD12	2.13	0.63
3:D:188:ILE:N	3:D:188:ILE:CD1	2.60	0.63
1:F:298:VAL:O	1:F:302:LEU:HB2	1.97	0.63
1:F:414:PHE:CE1	1:F:419:LEU:HD12	2.32	0.63
1:H:410:PRO:HA	1:H:413:ASN:HD22	1.62	0.63
3:D:258:LEU:HD22	3:D:258:LEU:H	1.60	0.63
3:D:334:VAL:CG1	3:D:335:VAL:N	2.61	0.63
3:D:350:GLU:HB3	3:D:366:HIS:CD2	2.33	0.63
3:A:65:LYS:HD3	3:A:65:LYS:N	2.13	0.63
3:A:130:LYS:HE2	3:A:132:LYS:HE2	1.80	0.63
3:B:227:ASP:HB2	3:B:359:GLY:O	1.98	0.63
3:B:350:GLU:HB3	3:B:366:HIS:CD2	2.34	0.63
3:B:371:VAL:O	3:B:371:VAL:HG12	1.96	0.63
3:C:83:SER:O	3:C:84:TYR:CD2	2.51	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:350:GLU:CD	3:D:350:GLU:N	2.51	0.63
1:F:391:LEU:HD23	1:F:422:LEU:CD2	2.28	0.63
1:F:398:ASP:O	1:F:401:GLU:N	2.31	0.63
3:A:83:SER:O	3:A:84:TYR:CD2	2.51	0.63
3:B:350:GLU:CD	3:B:350:GLU:N	2.51	0.63
1:H:381:TYR:HD1	1:H:382:PRO:CD	2.11	0.63
1:H:396:PRO:HG3	1:H:399:LEU:HD12	1.79	0.63
1:H:497:LEU:HD22	2:I:131:PHE:CD2	2.33	0.63
2:I:148:GLY:HA2	2:I:155:GLY:CA	2.28	0.63
3:C:156:LEU:C	3:C:157:LEU:HD12	2.18	0.63
3:D:198:MET:CE	3:D:234:ILE:HG21	2.29	0.63
2:G:31:LEU:O	2:G:34:VAL:HB	1.99	0.63
1:H:438:PHE:HD1	1:H:439:ASN:OD1	1.82	0.63
2:I:281:ALA:O	2:I:284:TRP:HB2	1.97	0.63
3:C:87:TYR:N	3:C:95:ASN:HD21	1.96	0.63
3:D:8:ASN:O	3:D:58:GLY:HA3	1.98	0.63
3:D:46:LEU:HD12	3:D:156:LEU:HD13	1.81	0.63
1:F:422:LEU:HD23	1:F:425:PRO:HG3	1.80	0.63
1:F:501:LEU:HD13	2:G:127:ILE:CG2	2.28	0.63
2:G:129:GLN:C	2:G:131:PHE:H	2.02	0.63
3:B:8:ASN:O	3:B:58:GLY:HA3	1.98	0.63
3:B:223:HIS:HE1	3:B:369:PRO:HG2	1.63	0.63
3:B:226:ALA:HB3	3:B:230:VAL:CG2	2.22	0.63
3:B:292:PRO:HA	3:B:345:ILE:HG22	1.80	0.63
1:H:284:THR:HG21	1:H:467:LEU:H	1.61	0.63
3:C:12:ALA:HB2	3:C:17:VAL:HG13	1.79	0.63
3:C:130:LYS:HE2	3:C:132:LYS:HE2	1.80	0.63
3:C:179:LEU:O	3:C:183:LEU:N	2.30	0.63
3:C:253:GLN:HB2	3:C:267:TRP:CE3	2.34	0.63
3:D:292:PRO:C	3:D:345:ILE:HG22	2.19	0.63
3:D:292:PRO:HA	3:D:345:ILE:HG22	1.81	0.63
3:D:300:LEU:HD11	3:D:347:LEU:HB2	1.81	0.63
3:D:334:VAL:HG12	3:D:335:VAL:H	1.64	0.63
3:D:336:LEU:O	3:D:337:VAL:CG2	2.45	0.63
2:G:107:ALA:HB2	2:G:174:VAL:HG22	1.81	0.63
3:B:354:LEU:HG	3:B:355:PHE:N	2.12	0.63
1:H:328:PRO:CD	2:I:274:ILE:HG12	2.19	0.63
1:F:41:LEU:CD1	1:F:89:ILE:HD11	2.28	0.63
2:G:31:LEU:HD23	2:G:31:LEU:N	2.07	0.63
3:A:87:TYR:N	3:A:95:ASN:HD21	1.96	0.63
3:A:164:LEU:HD13	3:A:168:LEU:HG	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:253:GLN:HB2	3:A:267:TRP:CE3	2.34	0.63
3:A:283:LEU:HD12	3:A:353:HIS:O	1.98	0.63
3:B:46:LEU:HD12	3:B:156:LEU:HD13	1.81	0.63
1:H:268:PHE:O	1:H:270:ASP:N	2.32	0.63
1:H:330:PHE:O	1:H:333:ILE:HD12	1.99	0.63
1:H:348:ASN:HA	1:H:351:LEU:HB2	1.81	0.63
1:H:391:LEU:HD23	1:H:422:LEU:CD2	2.28	0.63
2:I:107:ALA:HB2	2:I:174:VAL:HG22	1.81	0.63
2:I:173:HIS:ND1	2:I:218:VAL:HG13	2.14	0.63
3:C:145:GLY:CA	3:C:148:LEU:HD12	2.28	0.63
3:C:283:LEU:HD12	3:C:353:HIS:O	1.98	0.63
1:F:51:SER:O	1:F:55:TYR:HB2	1.99	0.63
1:F:341:ASN:HD22	1:F:344:PHE:CB	2.12	0.63
1:F:381:TYR:HD1	1:F:382:PRO:CD	2.11	0.63
1:F:422:LEU:HA	1:F:425:PRO:HG3	1.81	0.63
3:A:40:CYS:HB3	3:A:42:LYS:NZ	2.14	0.63
3:A:240:ASN:ND2	3:A:327:LEU:HD12	2.13	0.63
3:C:306:VAL:CG1	3:C:307:VAL:H	2.12	0.63
3:D:96:MET:O	3:D:98:PHE:N	2.27	0.63
3:B:198:MET:CE	3:B:234:ILE:HG21	2.29	0.62
3:B:315:GLN:HA	3:B:329:TYR:O	1.98	0.62
1:H:337:LYS:NZ	2:I:253:LEU:HG	2.14	0.62
1:H:423:ILE:CG1	1:H:424:LYS:N	2.62	0.62
3:C:224:TYR:CE2	3:C:371:VAL:HG11	2.33	0.62
3:C:306:VAL:HB	3:C:317:HIS:CG	2.35	0.62
3:C:334:VAL:O	3:C:335:VAL:CG2	2.46	0.62
3:D:356:ARG:HD2	3:D:360:THR:OG1	1.99	0.62
2:G:28:MET:SD	2:G:31:LEU:HD11	2.38	0.62
3:A:32:VAL:HG12	3:A:33:VAL:N	2.14	0.62
3:A:306:VAL:HB	3:A:317:HIS:CG	2.34	0.62
1:H:51:SER:O	1:H:55:TYR:HB2	1.99	0.62
1:H:341:ASN:HD22	1:H:344:PHE:CB	2.12	0.62
2:I:31:LEU:HD23	2:I:31:LEU:N	2.07	0.62
3:C:32:VAL:HG12	3:C:33:VAL:H	1.64	0.62
3:D:292:PRO:HD2	3:D:295:ILE:HD12	1.81	0.62
3:A:243:PRO:O	3:A:244:VAL:HG22	2.00	0.62
3:A:357:GLU:C	3:A:359:GLY:H	2.02	0.62
1:H:398:ASP:O	1:H:401:GLU:N	2.31	0.62
2:G:91:VAL:HG12	2:G:92:ALA:N	2.15	0.62
1:H:287:PHE:HE2	1:H:437:ASN:O	1.82	0.62
1:H:333:ILE:HA	1:H:336:PHE:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:32:VAL:HG12	3:C:33:VAL:N	2.14	0.62
3:C:96:MET:CE	3:C:145:GLY:HA3	2.29	0.62
3:D:44:THR:HG22	3:D:48:MET:CE	2.30	0.62
1:F:330:PHE:O	1:F:333:ILE:HD12	1.99	0.62
1:F:410:PRO:HA	1:F:413:ASN:HD22	1.62	0.62
2:G:85:LEU:CD2	2:G:245:LEU:HD22	2.29	0.62
3:A:12:ALA:HB2	3:A:17:VAL:HG13	1.79	0.62
3:B:44:THR:HG22	3:B:48:MET:CE	2.30	0.62
1:H:422:LEU:HA	1:H:425:PRO:HG3	1.81	0.62
3:D:6:LEU:HD23	3:D:9:VAL:HG21	1.81	0.62
1:F:396:PRO:HG3	1:F:399:LEU:HD12	1.79	0.62
1:F:438:PHE:HD1	1:F:439:ASN:OD1	1.82	0.62
2:G:86:TRP:NE1	2:G:90:LYS:HD2	2.15	0.62
3:A:164:LEU:CD2	3:A:168:LEU:HD23	2.29	0.62
3:A:169:ARG:HD3	3:A:193:ASP:OD2	1.98	0.62
3:B:255:GLN:NE2	3:B:267:TRP:NE1	2.48	0.62
3:B:292:PRO:HD2	3:B:295:ILE:HD12	1.81	0.62
3:B:356:ARG:HD2	3:B:360:THR:OG1	1.99	0.62
2:I:91:VAL:HG12	2:I:92:ALA:N	2.15	0.62
2:I:129:GLN:C	2:I:131:PHE:H	2.02	0.62
2:G:173:HIS:ND1	2:G:218:VAL:HG13	2.14	0.62
3:B:355:PHE:HB3	3:B:360:THR:O	2.00	0.62
2:I:31:LEU:O	2:I:34:VAL:HB	1.99	0.62
2:I:194:LEU:HD23	3:C:72:PRO:HB2	1.80	0.62
2:I:255:PRO:CB	2:I:259:LEU:HG	2.27	0.62
3:C:357:GLU:C	3:C:359:GLY:H	2.02	0.62
3:D:223:HIS:HE1	3:D:369:PRO:HG2	1.63	0.62
3:D:261:PRO:O	3:D:263:ARG:HG2	2.00	0.62
3:D:315:GLN:HA	3:D:329:TYR:O	1.98	0.62
3:A:306:VAL:CG1	3:A:307:VAL:H	2.12	0.62
3:A:351:ARG:HH11	3:A:351:ARG:HG3	1.65	0.62
3:C:55:ILE:HD13	3:C:68:ASN:HB3	1.82	0.62
3:C:102:LEU:O	3:C:103:ALA:HB3	2.00	0.62
2:G:78:PRO:O	2:G:80:PRO:HD3	2.00	0.62
2:G:126:LEU:HD23	2:G:127:ILE:N	2.15	0.62
3:B:32:VAL:HG12	3:B:33:VAL:N	2.15	0.62
2:I:180:TYR:HE2	2:I:211:SER:HA	1.65	0.62
3:C:40:CYS:HB3	3:C:42:LYS:NZ	2.14	0.62
3:C:251:ILE:O	3:C:272:SER:HB3	2.00	0.62
3:C:315:GLN:NE2	3:C:330:ARG:HG2	2.06	0.62
1:F:283:TRP:CZ3	1:F:369:ARG:HB3	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:348:ASN:HA	1:F:351:LEU:HB2	1.81	0.62
3:A:96:MET:CE	3:A:145:GLY:HA3	2.29	0.62
3:A:223:HIS:O	3:A:225:PRO:CD	2.46	0.62
3:B:152:PRO:O	3:B:154:VAL:N	2.33	0.62
2:I:85:LEU:CD2	2:I:245:LEU:HD22	2.29	0.62
3:D:266:VAL:HG22	3:D:267:TRP:O	2.00	0.62
1:F:99:GLN:HE22	2:G:146:ARG:NH1	1.93	0.61
3:D:255:GLN:NE2	3:D:267:TRP:NE1	2.48	0.61
3:D:347:LEU:O	3:D:348:PRO:C	2.36	0.61
1:F:414:PHE:HA	1:F:418:THR:CG2	2.31	0.61
1:F:439:ASN:ND2	2:G:132:PRO:HB2	2.15	0.61
1:F:454:ARG:HB2	1:F:457:THR:CG2	2.30	0.61
3:B:9:VAL:HG22	3:B:59:ASP:O	2.00	0.61
3:B:334:VAL:HG12	3:B:335:VAL:H	1.64	0.61
3:C:168:LEU:HD12	3:C:172:MET:HG2	1.82	0.61
3:C:243:PRO:O	3:C:244:VAL:HG22	1.99	0.61
3:C:351:ARG:HH11	3:C:351:ARG:HG3	1.65	0.61
3:D:355:PHE:HB3	3:D:360:THR:O	1.99	0.61
1:F:423:ILE:CG1	1:F:424:LYS:N	2.62	0.61
1:F:439:ASN:HD22	2:G:132:PRO:HB2	1.65	0.61
1:F:501:LEU:CB	2:G:127:ILE:HG23	2.28	0.61
3:A:193:ASP:O	3:A:194:GLN:C	2.37	0.61
3:B:243:PRO:C	3:B:244:VAL:HG22	2.21	0.61
1:H:439:ASN:ND2	2:I:132:PRO:HB2	2.15	0.61
2:I:230:VAL:HB	2:I:231:PRO:HD3	1.82	0.61
3:D:9:VAL:HG22	3:D:59:ASP:O	2.00	0.61
1:F:333:ILE:HA	1:F:336:PHE:HB2	1.81	0.61
2:G:148:GLY:HA2	2:G:155:GLY:CA	2.28	0.61
3:B:188:ILE:HD12	3:B:188:ILE:H	1.65	0.61
3:B:242:LEU:HB3	3:B:323:ILE:CD1	2.30	0.61
3:C:331:GLN:HE22	3:C:335:VAL:HG21	1.65	0.61
3:D:55:ILE:HD12	3:D:55:ILE:N	2.15	0.61
1:F:268:PHE:O	1:F:270:ASP:N	2.32	0.61
3:A:102:LEU:O	3:A:103:ALA:HB3	2.00	0.61
3:D:5:GLN:O	3:D:6:LEU:HD12	1.98	0.61
3:A:145:GLY:CA	3:A:148:LEU:HD12	2.28	0.61
3:B:10:THR:HG22	3:B:11:LYS:N	2.15	0.61
3:B:138:GLN:O	3:B:142:VAL:HG23	2.00	0.61
3:B:142:VAL:O	3:B:145:GLY:N	2.33	0.61
3:B:156:LEU:C	3:B:157:LEU:HD12	2.21	0.61
3:B:261:PRO:O	3:B:263:ARG:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:300:LEU:HD11	3:B:347:LEU:HB2	1.81	0.61
1:H:302:LEU:HB3	1:H:385:MET:SD	2.41	0.61
1:H:454:ARG:HB2	1:H:457:THR:CG2	2.30	0.61
2:I:78:PRO:O	2:I:80:PRO:HD3	2.00	0.61
3:C:33:VAL:C	3:C:34:PHE:CD2	2.74	0.61
3:C:312:ASN:O	3:C:313:GLU:HB3	1.99	0.61
3:D:32:VAL:HG12	3:D:33:VAL:N	2.15	0.61
3:D:156:LEU:C	3:D:157:LEU:HD12	2.21	0.61
3:D:328:VAL:HG12	3:D:329:TYR:H	1.65	0.61
1:F:337:LYS:NZ	2:G:253:LEU:HG	2.14	0.61
1:F:373:ILE:CG1	1:F:374:ILE:N	2.59	0.61
2:G:180:TYR:HE2	2:G:211:SER:HA	1.65	0.61
3:A:251:ILE:O	3:A:272:SER:HB3	2.00	0.61
3:B:328:VAL:HG12	3:B:329:TYR:H	1.65	0.61
1:H:283:TRP:CZ3	1:H:369:ARG:HB3	2.35	0.61
2:I:86:TRP:NE1	2:I:90:LYS:HD2	2.15	0.61
3:C:188:ILE:HG22	3:C:189:TYR:N	2.16	0.61
3:C:193:ASP:O	3:C:194:GLN:C	2.37	0.61
3:D:138:GLN:HA	3:D:141:ARG:HD3	1.83	0.61
3:D:243:PRO:C	3:D:244:VAL:HG22	2.21	0.61
1:F:53:GLY:HA2	1:F:69:TYR:CB	2.31	0.61
1:F:88:ALA:O	1:F:263:ASN:ND2	2.28	0.61
1:F:287:PHE:HE2	1:F:437:ASN:O	1.82	0.61
1:F:381:TYR:CD1	1:F:382:PRO:CD	2.84	0.61
3:A:46:LEU:HD13	3:A:190:VAL:HG23	1.83	0.61
3:A:188:ILE:HG22	3:A:189:TYR:N	2.16	0.61
3:A:312:ASN:O	3:A:313:GLU:HB3	2.00	0.61
3:B:6:LEU:HD23	3:B:9:VAL:HG21	1.81	0.61
3:B:266:VAL:HG22	3:B:267:TRP:O	2.00	0.61
3:B:335:VAL:O	3:B:337:VAL:HG23	2.01	0.61
1:H:96:SER:HB2	1:H:481:GLY:HA3	1.83	0.61
1:H:414:PHE:HA	1:H:418:THR:CG2	2.31	0.61
2:I:274:ILE:HG22	2:I:275:THR:N	2.15	0.61
3:D:10:THR:HG22	3:D:11:LYS:N	2.15	0.61
3:D:152:PRO:O	3:D:154:VAL:N	2.33	0.61
1:H:358:LYS:N	1:H:359:PRO:HD3	2.15	0.61
1:H:381:TYR:CD1	1:H:382:PRO:CD	2.84	0.61
1:H:439:ASN:HD22	2:I:132:PRO:HB2	1.65	0.61
1:F:302:LEU:HB3	1:F:385:MET:SD	2.41	0.61
1:F:358:LYS:N	1:F:359:PRO:HD3	2.15	0.61
1:F:468:VAL:HG13	1:F:469:ASN:H	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:179:LEU:O	3:A:183:LEU:N	2.30	0.61
3:B:55:ILE:N	3:B:55:ILE:HD12	2.15	0.61
1:H:366:THR:HG22	1:H:367:THR:H	1.66	0.61
1:H:424:LYS:HZ1	1:H:511:MET:HE2	1.66	0.61
3:C:194:GLN:O	3:C:198:MET:HG2	2.01	0.61
3:D:70:THR:CG2	3:D:71:PRO:HD2	2.30	0.61
3:D:138:GLN:O	3:D:142:VAL:HG23	2.00	0.61
2:G:4:VAL:CG1	3:B:72:PRO:HD3	2.31	0.60
2:G:230:VAL:HB	2:G:231:PRO:HD3	1.82	0.60
2:G:274:ILE:HG22	2:G:275:THR:N	2.15	0.60
3:A:11:LYS:HD2	3:A:56:THR:OG1	2.01	0.60
3:A:234:ILE:HG22	3:A:235:GLY:N	2.16	0.60
3:D:145:GLY:O	3:D:149:VAL:HG23	2.01	0.60
3:A:55:ILE:HD13	3:A:68:ASN:HB3	1.82	0.60
3:A:168:LEU:HD12	3:A:172:MET:HG2	1.82	0.60
3:B:124:ALA:O	3:B:127:LEU:HD13	2.01	0.60
3:B:145:GLY:O	3:B:149:VAL:HG23	2.01	0.60
3:B:335:VAL:HG12	3:B:337:VAL:CG2	2.32	0.60
3:C:234:ILE:HG22	3:C:235:GLY:N	2.16	0.60
3:D:66:ARG:HG2	3:D:66:ARG:HH11	1.66	0.60
3:D:188:ILE:HD12	3:D:188:ILE:H	1.65	0.60
3:A:194:GLN:O	3:A:198:MET:HG2	2.01	0.60
3:B:50:ALA:O	3:B:75:ARG:HD2	2.00	0.60
1:H:53:GLY:HA2	1:H:69:TYR:CB	2.31	0.60
2:I:126:LEU:HD23	2:I:127:ILE:N	2.15	0.60
3:C:84:TYR:HE1	3:C:140:GLN:HE21	1.49	0.60
3:D:124:ALA:O	3:D:127:LEU:HD13	2.01	0.60
3:D:335:VAL:HG12	3:D:337:VAL:CG2	2.31	0.60
3:A:154:VAL:HG12	3:A:155:PHE:H	1.66	0.60
3:A:169:ARG:NH1	3:A:169:ARG:HB2	2.16	0.60
3:A:193:ASP:HB3	3:A:196:GLU:HB2	1.84	0.60
3:B:138:GLN:HA	3:B:141:ARG:HD3	1.83	0.60
3:B:214:GLN:CD	3:B:226:ALA:HB2	2.21	0.60
1:H:96:SER:O	1:H:97:THR:HG23	2.01	0.60
1:H:108:VAL:O	1:H:112:ARG:HG3	2.02	0.60
1:H:341:ASN:ND2	2:I:256:GLN:OE1	2.34	0.60
3:C:169:ARG:NH1	3:C:169:ARG:HB2	2.16	0.60
2:G:254:ASN:HB2	2:G:255:PRO:HD3	1.80	0.60
2:G:279:LEU:O	2:G:282:GLN:HB2	2.02	0.60
3:B:334:VAL:O	3:B:335:VAL:HG22	2.02	0.60
2:I:114:ARG:HG2	2:I:118:LYS:NZ	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:255:PRO:O	2:I:259:LEU:HG	2.01	0.60
3:D:96:MET:C	3:D:98:PHE:H	2.05	0.60
3:D:334:VAL:O	3:D:335:VAL:HG22	2.02	0.60
3:D:335:VAL:O	3:D:337:VAL:HG23	2.01	0.60
3:B:20:LYS:HB3	3:B:211:ARG:HG2	1.83	0.60
3:D:140:GLN:O	3:D:144:ILE:HG13	2.02	0.60
2:G:15:ILE:HA	2:G:18:LEU:HD22	1.84	0.60
3:A:331:GLN:HE22	3:A:335:VAL:HG21	1.65	0.60
3:B:6:LEU:C	3:B:7:GLN:HG3	2.22	0.60
3:B:285:ILE:HD12	3:B:286:ARG:N	2.17	0.60
1:H:468:VAL:HG13	1:H:469:ASN:H	1.65	0.60
3:D:142:VAL:O	3:D:145:GLY:N	2.33	0.60
3:B:96:MET:C	3:B:98:PHE:H	2.05	0.60
3:B:140:GLN:O	3:B:144:ILE:HG13	2.02	0.60
1:H:88:ALA:HA	1:H:264:PHE:CZ	2.31	0.60
1:H:283:TRP:CZ3	1:H:369:ARG:HD3	2.37	0.60
1:H:284:THR:CG2	1:H:467:LEU:HD23	2.32	0.60
1:H:339:LEU:O	1:H:347:ILE:CG2	2.50	0.60
1:H:422:LEU:C	1:H:425:PRO:HD2	2.22	0.60
2:I:255:PRO:O	2:I:259:LEU:HB3	2.02	0.60
2:I:279:LEU:O	2:I:282:GLN:HB2	2.02	0.60
3:D:334:VAL:CG1	3:D:335:VAL:H	2.15	0.60
1:F:96:SER:O	1:F:97:THR:HG23	2.01	0.60
1:F:341:ASN:ND2	2:G:256:GLN:OE1	2.34	0.60
1:F:366:THR:HG22	1:F:367:THR:H	1.66	0.60
3:A:32:VAL:HG12	3:A:33:VAL:H	1.64	0.60
3:B:70:THR:CG2	3:B:71:PRO:HD2	2.30	0.60
3:D:50:ALA:O	3:D:75:ARG:HD2	2.00	0.60
3:D:214:GLN:CD	3:D:226:ALA:HB2	2.21	0.60
1:F:96:SER:HB2	1:F:481:GLY:HA3	1.83	0.60
2:G:158:THR:CG2	2:G:161:GLY:H	2.09	0.60
2:G:255:PRO:O	2:G:259:LEU:HG	2.01	0.60
2:G:255:PRO:O	2:G:259:LEU:HB3	2.02	0.60
3:C:46:LEU:HD13	3:C:190:VAL:HG23	1.83	0.60
3:C:92:VAL:HG13	3:C:142:VAL:CG1	2.32	0.60
3:C:193:ASP:HB3	3:C:196:GLU:HB2	1.84	0.60
3:C:300:LEU:HB2	3:C:345:ILE:O	2.02	0.60
1:F:339:LEU:O	1:F:347:ILE:CG2	2.49	0.59
1:F:342:GLN:HE22	1:F:363:SER:N	1.99	0.59
3:A:20:LYS:O	3:A:21:ASP:OD2	2.20	0.59
1:F:278:LEU:O	1:F:282:VAL:HG23	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:283:TRP:CZ3	1:F:369:ARG:HD3	2.37	0.59
3:B:66:ARG:HH11	3:B:66:ARG:HG2	1.66	0.59
1:H:342:GLN:HE22	1:H:363:SER:N	1.99	0.59
1:F:381:TYR:N	1:F:382:PRO:HD2	2.17	0.59
2:I:4:VAL:CG1	3:D:72:PRO:HD3	2.31	0.59
3:C:11:LYS:HD2	3:C:56:THR:OG1	2.01	0.59
3:D:226:ALA:HB3	3:D:230:VAL:CG2	2.22	0.59
1:F:108:VAL:O	1:F:112:ARG:HG3	2.02	0.59
1:F:422:LEU:C	1:F:425:PRO:HD2	2.22	0.59
2:G:86:TRP:HE1	2:G:90:LYS:HD2	1.67	0.59
3:A:92:VAL:HG13	3:A:142:VAL:CG1	2.32	0.59
3:A:242:LEU:CD1	3:A:283:LEU:HB3	2.32	0.59
3:A:75:ARG:CB	3:A:77:VAL:HG23	2.32	0.59
3:B:96:MET:HE2	3:B:114:VAL:HG13	1.85	0.59
3:B:334:VAL:CG1	3:B:335:VAL:H	2.15	0.59
1:H:381:TYR:CD1	1:H:382:PRO:N	2.62	0.59
1:H:400:TYR:OH	1:H:418:THR:HB	2.02	0.59
2:I:15:ILE:HA	2:I:18:LEU:HD22	1.83	0.59
2:I:244:THR:HG1	2:I:246:ALA:HB3	1.65	0.59
3:C:20:LYS:O	3:C:21:ASP:OD2	2.20	0.59
3:C:164:LEU:CD2	3:C:168:LEU:HD23	2.29	0.59
3:B:251:ILE:HG22	3:B:252:ASP:OD1	2.03	0.59
1:H:87:ILE:HG23	1:H:491:ALA:HA	1.85	0.59
1:H:278:LEU:O	1:H:282:VAL:HG23	2.01	0.59
2:I:86:TRP:HE1	2:I:90:LYS:HD2	1.67	0.59
3:C:154:VAL:HG12	3:C:155:PHE:H	1.66	0.59
1:F:400:TYR:OH	1:F:418:THR:HB	2.02	0.59
2:G:134:VAL:O	2:G:136:SER:N	2.36	0.59
2:G:224:ILE:O	2:G:228:THR:HG22	2.02	0.59
3:A:144:ILE:HG22	3:A:148:LEU:CD1	2.21	0.59
3:A:195:VAL:O	3:A:199:THR:HG23	2.03	0.59
1:H:381:TYR:N	1:H:382:PRO:HD2	2.17	0.59
2:I:29:PHE:O	2:I:32:LEU:HB2	2.03	0.59
1:F:87:ILE:HG23	1:F:491:ALA:HA	1.85	0.59
1:F:284:THR:CG2	1:F:467:LEU:HD23	2.32	0.59
1:F:307:GLN:C	1:F:309:GLU:H	2.05	0.59
1:F:442:VAL:CG1	2:G:230:VAL:HG11	2.29	0.59
3:A:240:ASN:CG	3:A:327:LEU:HD12	2.23	0.59
3:A:335:VAL:HG12	3:A:337:VAL:HG23	1.85	0.59
3:A:336:LEU:O	3:A:337:VAL:CG2	2.51	0.59
3:B:28:GLU:HG3	3:B:29:GLY:N	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:243:PRO:O	3:B:244:VAL:HG13	2.03	0.59
1:H:441:PHE:HD2	1:H:468:VAL:HG22	1.68	0.59
3:D:46:LEU:HA	3:D:49:ILE:HD12	1.85	0.59
1:F:323:LEU:O	1:F:326:ALA:N	2.36	0.59
1:F:510:ARG:HG3	2:G:175:TRP:HH2	1.68	0.59
3:A:33:VAL:C	3:A:34:PHE:CD2	2.74	0.59
1:H:368:ALA:O	1:H:371:MET:HB2	2.03	0.59
2:I:224:ILE:O	2:I:228:THR:HG22	2.02	0.59
3:C:12:ALA:HB1	3:C:17:VAL:HG22	1.84	0.59
3:C:75:ARG:CB	3:C:77:VAL:HG23	2.32	0.59
3:C:242:LEU:CD1	3:C:283:LEU:HB3	2.32	0.59
1:F:285:VAL:HG12	1:F:286:VAL:N	2.17	0.59
3:A:33:VAL:O	3:A:34:PHE:HD2	1.86	0.59
3:A:240:ASN:O	3:A:241:PHE:CD1	2.55	0.59
1:H:298:VAL:HG11	1:H:381:TYR:HD2	1.68	0.59
1:H:442:VAL:CG1	2:I:230:VAL:HG11	2.29	0.59
1:H:486:LEU:CD1	1:H:490:ILE:HD11	2.26	0.59
3:D:6:LEU:C	3:D:7:GLN:HG3	2.22	0.59
3:D:20:LYS:HB3	3:D:211:ARG:HG2	1.83	0.59
3:D:285:ILE:HD12	3:D:286:ARG:N	2.17	0.59
1:F:317:TYR:CD2	2:G:20:LEU:HG	2.38	0.58
3:A:6:LEU:HD23	3:A:9:VAL:HG21	1.85	0.58
3:A:86:LEU:HA	3:A:146:ARG:NH2	2.18	0.58
3:A:123:LEU:CD2	3:A:142:VAL:HG22	2.33	0.58
3:A:300:LEU:HB2	3:A:345:ILE:O	2.02	0.58
3:A:306:VAL:CG1	3:A:307:VAL:N	2.66	0.58
3:B:44:THR:HG22	3:B:48:MET:HE1	1.85	0.58
3:B:198:MET:HE1	3:B:234:ILE:HG21	1.84	0.58
3:C:239:MET:O	3:C:240:ASN:O	2.21	0.58
3:C:240:ASN:O	3:C:241:PHE:CD1	2.55	0.58
3:D:251:ILE:HG22	3:D:252:ASP:OD1	2.03	0.58
2:G:115:PHE:HB2	2:G:116:PRO:CD	2.23	0.58
2:G:146:ARG:O	2:G:149:GLU:HG2	2.04	0.58
2:G:276:ILE:HG22	2:G:277:VAL:N	2.18	0.58
3:A:60:LEU:HD12	3:A:61:PHE:N	2.17	0.58
2:I:3:MET:HE3	3:D:72:PRO:HG2	1.84	0.58
2:I:158:THR:CG2	2:I:161:GLY:H	2.09	0.58
3:C:84:TYR:HE1	3:C:140:GLN:NE2	2.01	0.58
3:C:123:LEU:CD2	3:C:142:VAL:HG22	2.33	0.58
3:C:144:ILE:HG22	3:C:148:LEU:CD1	2.21	0.58
3:D:45:LEU:CD1	3:D:207:LEU:HD11	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:88:ALA:HA	1:F:264:PHE:CZ	2.31	0.58
1:F:368:ALA:O	1:F:371:MET:HB2	2.03	0.58
3:A:12:ALA:HB1	3:A:17:VAL:HG22	1.85	0.58
3:A:53:GLU:HG3	3:A:54:THR:H	1.68	0.58
3:A:94:GLU:HA	3:A:97:SER:OG	2.03	0.58
1:H:323:LEU:O	1:H:326:ALA:N	2.36	0.58
1:H:446:LEU:HD21	2:I:250:GLN:HG3	1.85	0.58
2:I:134:VAL:O	2:I:136:SER:N	2.36	0.58
3:C:354:LEU:HG	3:C:362:CYS:SG	2.43	0.58
3:D:158:ASP:O	3:D:159:GLU:HB2	2.03	0.58
1:F:399:LEU:O	1:F:402:ALA:HB3	2.03	0.58
2:G:29:PHE:O	2:G:32:LEU:HB2	2.03	0.58
2:G:255:PRO:CB	2:G:259:LEU:HG	2.27	0.58
3:A:154:VAL:HG12	3:A:155:PHE:N	2.18	0.58
3:B:45:LEU:CD1	3:B:207:LEU:HD11	2.33	0.58
3:B:46:LEU:CD1	3:B:156:LEU:HD13	2.34	0.58
3:B:46:LEU:HA	3:B:49:ILE:HD12	1.85	0.58
3:B:92:VAL:HG23	3:B:129:ARG:O	2.03	0.58
1:H:501:LEU:CB	2:I:127:ILE:HG23	2.28	0.58
1:H:510:ARG:HG3	2:I:175:TRP:HH2	1.68	0.58
2:I:276:ILE:HG22	2:I:277:VAL:N	2.18	0.58
3:C:306:VAL:CG1	3:C:307:VAL:N	2.66	0.58
3:C:310:LEU:CD2	3:C:312:ASN:ND2	2.66	0.58
3:C:310:LEU:HD22	3:C:312:ASN:ND2	2.19	0.58
3:D:97:SER:HB2	3:D:100:LEU:HD11	1.85	0.58
3:D:151:GLU:N	3:D:152:PRO:HD3	2.18	0.58
3:A:271:GLU:HG2	3:A:273:ARG:HH21	1.68	0.58
3:A:286:ARG:HD3	3:A:288:GLU:OE2	2.04	0.58
1:H:284:THR:HG21	1:H:467:LEU:CD2	2.33	0.58
1:H:398:ASP:O	1:H:401:GLU:HB2	2.04	0.58
2:I:99:ILE:HD12	2:I:222:SER:HB3	1.85	0.58
1:F:283:TRP:CE3	1:F:369:ARG:HD3	2.38	0.58
1:F:330:PHE:CZ	2:G:246:ALA:HA	2.39	0.58
1:F:333:ILE:HA	1:F:336:PHE:HD1	1.69	0.58
1:F:450:GLY:HA3	1:F:465:ASP:OD2	2.04	0.58
2:G:114:ARG:HG2	2:G:118:LYS:NZ	2.17	0.58
3:B:26:ILE:HD12	3:B:26:ILE:N	2.14	0.58
3:B:151:GLU:N	3:B:152:PRO:HD3	2.18	0.58
3:B:260:MET:CB	3:B:261:PRO:HD2	2.26	0.58
1:H:340:PHE:HA	1:H:347:ILE:HG21	1.86	0.58
1:H:399:LEU:O	1:H:402:ALA:HB3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:306:VAL:HG21	3:C:317:HIS:ND1	2.18	0.58
3:D:28:GLU:HG3	3:D:29:GLY:N	2.18	0.58
3:D:92:VAL:HG23	3:D:129:ARG:O	2.03	0.58
3:D:186:THR:HG22	3:D:187:MET:N	2.19	0.58
3:D:270:VAL:HG12	3:D:271:GLU:N	2.19	0.58
3:D:350:GLU:CD	3:D:350:GLU:H	2.04	0.58
1:F:398:ASP:O	1:F:401:GLU:HB2	2.04	0.58
2:G:3:MET:HG2	2:G:4:VAL:N	2.19	0.58
3:A:75:ARG:HB2	3:A:77:VAL:HG23	1.86	0.58
3:A:84:TYR:HE1	3:A:140:GLN:HE21	1.49	0.58
3:A:84:TYR:HE1	3:A:140:GLN:NE2	2.01	0.58
3:A:310:LEU:HD22	3:A:312:ASN:ND2	2.19	0.58
3:A:354:LEU:HG	3:A:362:CYS:SG	2.43	0.58
3:B:158:ASP:O	3:B:159:GLU:HB2	2.03	0.58
3:B:186:THR:HG22	3:B:187:MET:N	2.19	0.58
3:B:255:GLN:O	3:B:256:VAL:HG13	2.04	0.58
3:B:270:VAL:HG12	3:B:271:GLU:N	2.19	0.58
3:B:270:VAL:HG12	3:B:272:SER:H	1.68	0.58
3:B:291:LEU:O	3:B:345:ILE:HB	2.03	0.58
3:B:350:GLU:CD	3:B:350:GLU:H	2.04	0.58
3:C:94:GLU:HA	3:C:97:SER:OG	2.03	0.58
3:D:291:LEU:O	3:D:345:ILE:HB	2.03	0.58
1:F:329:SER:OG	1:F:379:LEU:HD11	2.04	0.58
1:F:466:LEU:N	1:F:469:ASN:OD1	2.37	0.58
1:F:468:VAL:HG13	1:F:469:ASN:ND2	2.19	0.58
3:A:85:ALA:O	3:A:146:ARG:NH2	2.36	0.58
3:A:306:VAL:HG21	3:A:317:HIS:ND1	2.18	0.58
3:B:60:LEU:HD12	3:B:61:PHE:O	2.04	0.58
3:B:347:LEU:O	3:B:348:PRO:C	2.36	0.58
1:H:330:PHE:CZ	2:I:246:ALA:HA	2.39	0.58
1:H:424:LYS:N	1:H:425:PRO:HD2	2.19	0.58
3:C:53:GLU:HG3	3:C:54:THR:H	1.68	0.58
3:D:60:LEU:HD12	3:D:61:PHE:O	2.04	0.58
3:D:242:LEU:HB3	3:D:323:ILE:CD1	2.30	0.58
1:F:284:THR:HG21	1:F:467:LEU:CD2	2.33	0.58
1:F:340:PHE:HA	1:F:347:ILE:HG21	1.86	0.58
2:G:24:ILE:CD1	2:G:25:ALA:N	2.67	0.58
2:G:245:LEU:HG	2:G:249:MET:CE	2.33	0.58
3:A:20:LYS:HB3	3:A:211:ARG:NH1	2.19	0.58
3:B:156:LEU:N	3:B:156:LEU:HD23	2.18	0.58
1:H:307:GLN:C	1:H:309:GLU:H	2.05	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:450:GLY:HA3	1:H:465:ASP:OD2	2.04	0.58
3:C:33:VAL:O	3:C:34:PHE:HD2	1.86	0.58
3:C:154:VAL:HG12	3:C:155:PHE:N	2.18	0.58
3:C:336:LEU:O	3:C:337:VAL:CG2	2.51	0.58
3:D:93:ALA:N	3:D:127:LEU:O	2.37	0.58
3:D:272:SER:O	3:D:275:VAL:CG2	2.52	0.58
1:F:497:LEU:O	1:F:500:ALA:HB3	2.04	0.58
2:G:99:ILE:HD12	2:G:222:SER:HB3	1.85	0.58
3:B:299:ILE:O	3:B:300:LEU:HG	2.04	0.58
1:H:329:SER:OG	1:H:379:LEU:HD11	2.04	0.58
2:I:3:MET:HG2	2:I:4:VAL:N	2.19	0.58
3:C:6:LEU:HD23	3:C:9:VAL:HG21	1.85	0.58
3:C:83:SER:OG	3:C:84:TYR:N	2.37	0.58
3:C:195:VAL:O	3:C:199:THR:HG23	2.03	0.58
3:C:300:LEU:HD22	3:C:320:ILE:HD13	1.85	0.58
3:C:335:VAL:HG12	3:C:337:VAL:HG23	1.85	0.58
3:D:227:ASP:OD1	3:D:230:VAL:HG23	2.04	0.58
3:D:243:PRO:O	3:D:244:VAL:HG13	2.03	0.58
3:D:251:ILE:HD13	3:D:251:ILE:H	1.69	0.58
1:F:275:LYS:N	1:F:276:PRO:CD	2.58	0.57
1:F:378:TRP:HD1	2:G:27:ILE:HG22	1.69	0.57
1:F:441:PHE:HD2	1:F:468:VAL:HG22	1.68	0.57
2:G:195:ASP:HB3	3:A:102:LEU:HD23	1.85	0.57
3:B:33:VAL:O	3:B:204:ILE:HG23	2.04	0.57
3:B:34:PHE:O	3:B:35:VAL:CG1	2.48	0.57
3:B:196:GLU:O	3:B:199:THR:OG1	2.20	0.57
1:H:285:VAL:HG12	1:H:286:VAL:N	2.17	0.57
3:C:60:LEU:HD12	3:C:61:PHE:N	2.17	0.57
3:C:86:LEU:HA	3:C:146:ARG:NH2	2.18	0.57
3:D:46:LEU:CD1	3:D:156:LEU:HD13	2.33	0.57
1:F:79:VAL:CG2	2:G:168:GLY:HA3	2.34	0.57
1:F:317:TYR:CE2	2:G:20:LEU:CG	2.86	0.57
1:F:441:PHE:HB2	1:F:468:VAL:HG21	1.86	0.57
1:F:446:LEU:HD21	2:G:250:GLN:HG3	1.85	0.57
3:A:239:MET:O	3:A:240:ASN:O	2.21	0.57
3:A:310:LEU:CD2	3:A:312:ASN:ND2	2.66	0.57
1:H:79:VAL:CG2	2:I:168:GLY:HA3	2.34	0.57
2:I:146:ARG:O	2:I:149:GLU:HG2	2.04	0.57
1:F:352:SER:HA	1:F:357:VAL:O	2.03	0.57
2:G:191:ALA:O	2:G:194:LEU:HB2	2.04	0.57
3:A:77:VAL:HG12	3:A:78:GLY:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:257:GLU:HB2	3:A:265:GLN:HG2	1.86	0.57
3:B:97:SER:HB2	3:B:100:LEU:HD11	1.85	0.57
3:B:330:ARG:O	3:B:331:GLN:HB2	2.04	0.57
1:H:283:TRP:CE3	1:H:369:ARG:HD3	2.38	0.57
1:H:352:SER:HA	1:H:357:VAL:O	2.03	0.57
1:H:441:PHE:HB2	1:H:468:VAL:HG21	1.86	0.57
1:H:466:LEU:N	1:H:469:ASN:OD1	2.37	0.57
1:H:468:VAL:HG13	1:H:469:ASN:ND2	2.19	0.57
2:I:194:LEU:CD2	3:C:72:PRO:HB2	2.34	0.57
2:I:245:LEU:HG	2:I:249:MET:CE	2.33	0.57
3:C:286:ARG:HD3	3:C:288:GLU:OE2	2.04	0.57
3:D:33:VAL:O	3:D:204:ILE:HG23	2.04	0.57
3:D:196:GLU:O	3:D:199:THR:OG1	2.19	0.57
1:F:298:VAL:HG11	1:F:381:TYR:HD2	1.68	0.57
1:F:323:LEU:N	1:F:324:PRO:HD2	2.19	0.57
3:A:346:GLY:O	3:A:348:PRO:CD	2.51	0.57
3:B:188:ILE:HG22	3:B:189:TYR:N	2.19	0.57
3:B:251:ILE:HD13	3:B:251:ILE:H	1.69	0.57
3:B:315:GLN:C	3:B:316:ILE:HG13	2.25	0.57
1:H:317:TYR:CD2	2:I:20:LEU:HG	2.38	0.57
1:H:333:ILE:HA	1:H:336:PHE:HD1	1.69	0.57
2:I:94:ILE:CD1	2:I:163:ILE:HD13	2.35	0.57
2:I:191:ALA:O	2:I:194:LEU:HB2	2.04	0.57
3:D:223:HIS:CE1	3:D:369:PRO:HG2	2.40	0.57
1:F:278:LEU:HD22	1:F:278:LEU:N	2.19	0.57
3:A:126:LEU:HD13	3:A:134:LEU:CD2	2.34	0.57
3:A:300:LEU:HD22	3:A:320:ILE:HD13	1.85	0.57
3:B:93:ALA:N	3:B:127:LEU:O	2.37	0.57
3:B:122:GLN:O	3:B:123:LEU:HD12	2.05	0.57
3:C:13:TRP:HB2	3:C:16:VAL:HB	1.87	0.57
3:C:305:GLN:HG3	3:C:326:ASN:ND2	2.20	0.57
3:A:285:ILE:HD12	3:A:286:ARG:N	2.16	0.57
3:B:223:HIS:C	3:B:225:PRO:HD3	2.24	0.57
3:B:226:ALA:O	3:B:361:ALA:HB3	2.04	0.57
3:B:271:GLU:OE1	3:B:271:GLU:O	2.23	0.57
1:H:278:LEU:HD22	1:H:278:LEU:N	2.19	0.57
3:C:172:MET:O	3:C:175:GLU:HB2	2.04	0.57
3:C:240:ASN:CG	3:C:327:LEU:HD12	2.23	0.57
3:C:257:GLU:HB2	3:C:265:GLN:HG2	1.86	0.57
3:D:260:MET:CB	3:D:261:PRO:HD2	2.26	0.57
3:D:350:GLU:O	3:D:364:ARG:NH1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:280:ILE:HD13	1:F:470:TYR:CD1	2.34	0.57
2:G:24:ILE:O	2:G:28:MET:CG	2.53	0.57
2:G:252:TYR:N	2:G:252:TYR:CD1	2.73	0.57
3:A:13:TRP:HB2	3:A:16:VAL:HB	1.87	0.57
3:B:272:SER:O	3:B:275:VAL:CG2	2.52	0.57
2:I:272:LEU:HD23	2:I:273:PRO:HD3	1.86	0.57
3:C:20:LYS:HB3	3:C:211:ARG:NH1	2.19	0.57
3:D:122:GLN:O	3:D:123:LEU:HD12	2.05	0.57
3:D:156:LEU:HD23	3:D:156:LEU:N	2.18	0.57
3:D:270:VAL:HG12	3:D:272:SER:H	1.68	0.57
3:D:299:ILE:O	3:D:300:LEU:HG	2.04	0.57
1:F:48:ILE:HG13	1:F:49:LEU:N	2.20	0.57
1:F:298:VAL:HG11	1:F:381:TYR:CD2	2.40	0.57
1:F:419:LEU:C	1:F:421:LEU:N	2.59	0.57
1:F:424:LYS:N	1:F:425:PRO:HD2	2.19	0.57
1:F:501:LEU:HD23	2:G:130:MET:SD	2.45	0.57
1:H:501:LEU:HD23	2:I:130:MET:SD	2.45	0.57
3:C:271:GLU:HG2	3:C:273:ARG:HH21	1.68	0.57
3:D:44:THR:HG22	3:D:48:MET:HE2	1.87	0.57
3:D:279:ALA:O	3:D:281:MET:N	2.37	0.57
3:D:281:MET:CB	3:D:354:LEU:HD11	2.35	0.57
3:D:368:GLU:CB	3:D:369:PRO:HD2	2.28	0.57
1:F:312:ARG:CD	1:F:313:GLY:N	2.68	0.57
1:F:343:SER:OG	1:F:344:PHE:N	2.37	0.57
2:G:194:LEU:CD2	3:A:72:PRO:HB2	2.34	0.57
1:H:56:ILE:HD11	1:H:69:TYR:CB	2.35	0.57
3:C:80:VAL:HG22	3:C:160:PRO:HB3	1.87	0.57
3:C:346:GLY:O	3:C:348:PRO:CD	2.51	0.57
2:G:29:PHE:CE1	2:G:33:MET:SD	2.98	0.56
3:A:172:MET:O	3:A:175:GLU:HB2	2.04	0.56
3:B:350:GLU:O	3:B:364:ARG:NH1	2.37	0.56
1:H:343:SER:OG	1:H:344:PHE:N	2.37	0.56
2:I:24:ILE:O	2:I:28:MET:CG	2.53	0.56
2:G:94:ILE:CD1	2:G:163:ILE:HD13	2.35	0.56
1:H:323:LEU:N	1:H:324:PRO:HD2	2.19	0.56
1:H:365:PRO:HG3	1:H:452:PRO:CG	2.35	0.56
3:D:226:ALA:O	3:D:361:ALA:HB3	2.05	0.56
3:D:320:ILE:HG23	3:D:321:PRO:CD	2.31	0.56
1:F:277:PHE:O	1:F:280:ILE:HG12	2.06	0.56
1:F:280:ILE:HG13	1:F:281:PHE:N	2.20	0.56
1:F:328:PRO:CD	2:G:274:ILE:HG12	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:334:LEU:HD11	2:G:250:GLN:HA	1.87	0.56
3:A:224:TYR:HE2	3:A:371:VAL:HG11	1.70	0.56
3:A:275:VAL:O	3:A:275:VAL:HG12	2.05	0.56
3:A:312:ASN:O	3:A:312:ASN:OD1	2.23	0.56
3:A:314:THR:OG1	3:A:334:VAL:HA	2.05	0.56
3:B:223:HIS:CE1	3:B:369:PRO:HG2	2.40	0.56
1:H:284:THR:HA	1:H:466:LEU:CD2	2.35	0.56
2:I:94:ILE:HG13	2:I:163:ILE:HG21	1.87	0.56
2:I:166:TYR:OH	2:I:229:GLU:HG2	2.06	0.56
2:I:230:VAL:CB	2:I:231:PRO:HD3	2.35	0.56
2:I:252:TYR:N	2:I:252:TYR:CD1	2.73	0.56
3:C:224:TYR:HE2	3:C:371:VAL:HG11	1.70	0.56
3:C:312:ASN:O	3:C:312:ASN:OD1	2.23	0.56
3:C:314:THR:OG1	3:C:334:VAL:HA	2.05	0.56
3:D:188:ILE:HG22	3:D:189:TYR:N	2.19	0.56
3:D:223:HIS:C	3:D:225:PRO:HD3	2.24	0.56
3:D:255:GLN:O	3:D:256:VAL:HG13	2.04	0.56
1:F:284:THR:HA	1:F:466:LEU:CD2	2.35	0.56
2:G:4:VAL:HG22	2:G:6:PRO:HD3	1.86	0.56
2:G:92:ALA:CB	2:G:227:ILE:HD13	2.34	0.56
3:B:279:ALA:O	3:B:281:MET:N	2.37	0.56
1:H:48:ILE:HG13	1:H:49:LEU:N	2.20	0.56
1:H:277:PHE:O	1:H:280:ILE:HG12	2.06	0.56
1:H:334:LEU:HD11	2:I:250:GLN:HA	1.88	0.56
1:H:378:TRP:HD1	2:I:27:ILE:HG22	1.69	0.56
1:H:419:LEU:C	1:H:421:LEU:N	2.59	0.56
3:C:304:VAL:HG13	3:C:316:ILE:CG2	2.36	0.56
1:F:366:THR:CG2	1:F:367:THR:H	2.19	0.56
1:F:421:LEU:HD13	3:B:89:HIS:HB3	1.87	0.56
3:A:258:LEU:N	3:A:258:LEU:HD22	2.20	0.56
1:H:497:LEU:O	1:H:500:ALA:HB3	2.04	0.56
2:I:29:PHE:CE1	2:I:33:MET:SD	2.98	0.56
3:D:253:GLN:HB2	3:D:267:TRP:CE3	2.40	0.56
3:D:330:ARG:O	3:D:331:GLN:HB2	2.04	0.56
1:F:284:THR:CG2	1:F:466:LEU:CA	2.74	0.56
1:F:424:LYS:HZ1	1:F:511:MET:HE2	1.69	0.56
2:G:230:VAL:CB	2:G:231:PRO:HD3	2.35	0.56
3:A:8:ASN:H	3:A:23:ASN:CG	2.08	0.56
3:B:253:GLN:HB2	3:B:267:TRP:CE3	2.40	0.56
1:H:281:PHE:N	1:H:467:LEU:HD21	2.21	0.56
3:D:315:GLN:C	3:D:316:ILE:HG13	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:99:ILE:HD12	2:G:222:SER:CB	2.36	0.56
3:A:347:LEU:O	3:A:349:PRO:HD3	2.06	0.56
3:B:130:LYS:HG3	3:B:133:ALA:HB3	1.88	0.56
1:H:366:THR:CG2	1:H:367:THR:H	2.19	0.56
2:I:4:VAL:HG22	2:I:6:PRO:HD3	1.86	0.56
2:I:115:PHE:CB	2:I:116:PRO:HD2	2.27	0.56
3:C:107:LYS:HA	3:C:110:ILE:HD12	1.88	0.56
3:C:169:ARG:HD3	3:C:196:GLU:OE2	2.05	0.56
3:D:130:LYS:HG3	3:D:133:ALA:HB3	1.88	0.56
3:D:286:ARG:HD3	3:D:288:GLU:OE2	2.06	0.56
1:F:56:ILE:HD11	1:F:69:TYR:CB	2.35	0.56
1:F:333:ILE:O	1:F:336:PHE:CB	2.53	0.56
1:F:486:LEU:HD13	1:F:490:ILE:CG1	2.36	0.56
2:G:166:TYR:OH	2:G:229:GLU:HG2	2.06	0.56
3:B:222:TYR:CE1	3:B:286:ARG:NE	2.74	0.56
1:H:347:ILE:CG2	1:H:348:ASN:N	2.47	0.56
1:H:486:LEU:HD13	1:H:490:ILE:CG1	2.36	0.56
2:I:24:ILE:CD1	2:I:25:ALA:N	2.67	0.56
2:I:99:ILE:HD12	2:I:222:SER:CB	2.36	0.56
3:C:75:ARG:HB2	3:C:77:VAL:HG23	1.86	0.56
3:C:258:LEU:HD22	3:C:258:LEU:N	2.20	0.56
3:C:307:VAL:CG2	3:C:339:GLU:HG2	2.36	0.56
1:F:365:PRO:HG3	1:F:452:PRO:CG	2.35	0.56
2:G:272:LEU:HD23	2:G:273:PRO:HD3	1.86	0.56
3:A:107:LYS:HA	3:A:110:ILE:HD12	1.88	0.56
3:A:305:GLN:HG3	3:A:326:ASN:ND2	2.20	0.56
3:B:42:LYS:HE2	3:B:190:VAL:CG1	2.36	0.56
3:B:227:ASP:OD1	3:B:230:VAL:HG23	2.04	0.56
3:B:286:ARG:HD3	3:B:288:GLU:OE2	2.06	0.56
1:H:41:LEU:HD23	1:H:44:ILE:HD12	1.88	0.56
1:H:280:ILE:HG13	1:H:281:PHE:N	2.20	0.56
1:H:298:VAL:HG11	1:H:381:TYR:CD2	2.40	0.56
3:C:8:ASN:H	3:C:23:ASN:CG	2.08	0.56
3:D:42:LYS:HE2	3:D:190:VAL:CG1	2.36	0.56
1:F:80:LEU:O	1:F:83:LEU:HB2	2.06	0.56
2:G:208:LEU:O	2:G:209:PRO:C	2.44	0.56
2:G:245:LEU:HG	2:G:249:MET:HE2	1.87	0.56
3:A:309:GLN:O	3:A:310:LEU:HB2	2.06	0.56
3:B:281:MET:CB	3:B:354:LEU:HD11	2.35	0.56
1:H:281:PHE:HA	1:H:467:LEU:CD2	2.36	0.56
1:H:421:LEU:HD13	3:D:89:HIS:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:431:ILE:HG13	1:H:432:ALA:H	1.71	0.56
2:I:164:PHE:HA	2:I:167:LEU:HD13	1.88	0.56
3:C:275:VAL:O	3:C:275:VAL:HG12	2.05	0.56
3:D:90:LEU:O	3:D:131:PRO:HG2	2.06	0.56
1:F:281:PHE:N	1:F:467:LEU:HD21	2.21	0.55
1:F:339:LEU:O	1:F:347:ILE:HG22	2.06	0.55
2:G:94:ILE:HG13	2:G:163:ILE:HG21	1.87	0.55
3:A:230:VAL:O	3:A:234:ILE:HG13	2.06	0.55
1:H:267:VAL:HG22	1:H:488:ALA:CA	2.37	0.55
1:H:459:THR:HB	1:H:460:PRO:CD	2.36	0.55
1:H:509:THR:O	1:H:510:ARG:HB2	2.05	0.55
2:I:195:ASP:HB3	3:C:102:LEU:HD23	1.85	0.55
3:C:126:LEU:HD13	3:C:134:LEU:CD2	2.34	0.55
3:D:271:GLU:O	3:D:271:GLU:OE1	2.23	0.55
2:G:29:PHE:HB3	2:G:30:PRO:CD	2.33	0.55
3:A:80:VAL:HG22	3:A:160:PRO:HB3	1.87	0.55
3:A:258:LEU:H	3:A:258:LEU:CD2	2.19	0.55
1:H:312:ARG:CD	1:H:313:GLY:N	2.68	0.55
1:H:330:PHE:CE2	2:I:246:ALA:O	2.59	0.55
3:C:34:PHE:O	3:C:35:VAL:CG1	2.55	0.55
3:C:195:VAL:HG13	3:D:310:LEU:HD21	1.88	0.55
3:C:223:HIS:O	3:C:225:PRO:CD	2.46	0.55
3:C:347:LEU:O	3:C:349:PRO:HD3	2.06	0.55
3:D:62:ILE:HD12	3:D:67:MET:HG3	1.89	0.55
3:D:314:THR:HG22	3:D:315:GLN:H	1.70	0.55
1:F:330:PHE:CE2	2:G:246:ALA:O	2.59	0.55
3:A:169:ARG:HD3	3:A:196:GLU:OE2	2.04	0.55
3:B:155:PHE:N	3:B:155:PHE:CD1	2.74	0.55
2:I:181:PHE:HZ	2:I:203:PHE:HE2	1.54	0.55
3:C:152:PRO:HG2	3:C:155:PHE:CE1	2.41	0.55
3:D:222:TYR:CE1	3:D:286:ARG:NE	2.74	0.55
3:D:287:PRO:HG3	3:D:328:VAL:HB	1.88	0.55
2:G:115:PHE:CB	2:G:116:PRO:HD2	2.27	0.55
3:A:83:SER:OG	3:A:84:TYR:N	2.37	0.55
3:A:86:LEU:HA	3:A:146:ARG:HH22	1.72	0.55
3:A:304:VAL:HG13	3:A:316:ILE:CG2	2.36	0.55
3:B:62:ILE:HD12	3:B:67:MET:HG3	1.89	0.55
1:F:459:THR:HB	1:F:460:PRO:CD	2.36	0.55
2:G:181:PHE:HZ	2:G:203:PHE:HE2	1.54	0.55
3:A:285:ILE:CD1	3:A:286:ARG:H	2.16	0.55
3:A:307:VAL:CG2	3:A:339:GLU:HG2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:90:LEU:O	3:B:131:PRO:HG2	2.06	0.55
3:B:140:GLN:O	3:B:143:ALA:HB3	2.07	0.55
3:B:236:SER:CB	3:B:237:PRO:HD3	2.35	0.55
2:I:187:SER:O	2:I:190:GLU:N	2.40	0.55
3:C:77:VAL:HG12	3:C:78:GLY:N	2.19	0.55
3:C:188:ILE:H	3:C:188:ILE:CD1	2.20	0.55
1:F:41:LEU:HD23	1:F:44:ILE:HD12	1.88	0.55
3:B:226:ALA:CB	3:B:230:VAL:HG21	2.27	0.55
3:B:266:VAL:CG2	3:B:267:TRP:N	2.70	0.55
3:B:292:PRO:CA	3:B:345:ILE:HG22	2.37	0.55
1:H:409:GLY:HA2	1:H:412:GLN:H	1.72	0.55
3:C:232:GLY:HA3	3:C:238:LYS:HZ1	1.70	0.55
3:D:59:ASP:OD1	3:D:66:ARG:NH2	2.40	0.55
1:F:381:TYR:CD1	1:F:381:TYR:C	2.80	0.55
3:A:34:PHE:O	3:A:35:VAL:CG1	2.55	0.55
3:A:195:VAL:HG13	3:B:310:LEU:HD21	1.88	0.55
3:B:59:ASP:OD1	3:B:66:ARG:NH2	2.40	0.55
1:H:331:ILE:C	1:H:331:ILE:HD13	2.27	0.55
3:D:26:ILE:H	3:D:26:ILE:CD1	2.14	0.55
3:D:155:PHE:N	3:D:155:PHE:CD1	2.74	0.55
3:D:242:LEU:HD12	3:D:283:LEU:HB3	1.88	0.55
2:G:12:ARG:HG2	2:G:12:ARG:HH11	1.72	0.55
2:G:33:MET:O	2:G:36:ALA:HB3	2.07	0.55
1:H:274:GLN:HG2	1:H:274:GLN:O	2.06	0.55
1:H:333:ILE:O	1:H:336:PHE:CB	2.53	0.55
1:H:486:LEU:H	1:H:486:LEU:CD1	2.10	0.55
3:C:10:THR:CB	3:C:57:SER:HB3	2.37	0.55
3:D:77:VAL:CG1	3:D:78:GLY:N	2.70	0.55
3:D:140:GLN:O	3:D:143:ALA:HB3	2.06	0.55
2:G:137:LEU:HA	2:G:140:LEU:HD12	1.89	0.55
2:G:164:PHE:HA	2:G:167:LEU:HD13	1.88	0.55
3:A:51:GLY:HA3	3:A:72:PRO:HG3	1.87	0.55
1:H:93:ASN:O	1:H:95:SER:N	2.40	0.55
2:I:15:ILE:O	2:I:18:LEU:HD23	2.06	0.55
3:C:190:VAL:O	3:C:191:THR:HB	2.07	0.55
3:C:258:LEU:H	3:C:258:LEU:CD2	2.19	0.55
3:D:292:PRO:CA	3:D:345:ILE:HG22	2.37	0.55
1:F:503:ILE:HG22	1:F:507:LYS:HZ2	1.72	0.55
3:A:102:LEU:O	3:A:103:ALA:CB	2.55	0.55
1:H:381:TYR:CD1	1:H:381:TYR:C	2.80	0.55
3:C:4:VAL:HG22	3:C:5:GLN:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:77:VAL:HG12	3:D:78:GLY:H	1.71	0.55
3:D:226:ALA:CB	3:D:230:VAL:HG21	2.27	0.55
3:D:236:SER:HB3	3:D:237:PRO:CD	2.34	0.55
3:D:260:MET:HB2	3:D:261:PRO:CD	2.29	0.55
1:F:347:ILE:CG2	1:F:348:ASN:N	2.47	0.54
3:A:123:LEU:HD12	3:A:141:ARG:HH21	1.71	0.54
3:B:77:VAL:CG1	3:B:78:GLY:N	2.70	0.54
3:B:189:TYR:O	3:B:190:VAL:HG23	2.07	0.54
3:B:236:SER:HB3	3:B:237:PRO:CD	2.34	0.54
1:H:264:PHE:O	1:H:267:VAL:HG23	2.07	0.54
1:H:317:TYR:CE2	2:I:20:LEU:CG	2.86	0.54
1:H:339:LEU:O	1:H:347:ILE:HG22	2.06	0.54
2:I:208:LEU:O	2:I:209:PRO:C	2.44	0.54
3:C:51:GLY:HA3	3:C:72:PRO:HG3	1.87	0.54
3:C:86:LEU:HA	3:C:146:ARG:HH22	1.72	0.54
3:D:281:MET:HB3	3:D:355:PHE:O	2.07	0.54
1:F:509:THR:O	1:F:510:ARG:HB2	2.05	0.54
2:G:28:MET:CA	2:G:31:LEU:HD21	2.33	0.54
1:H:457:THR:HB	1:H:461:ALA:HB3	1.89	0.54
2:I:33:MET:O	2:I:36:ALA:HB3	2.07	0.54
3:C:123:LEU:HD12	3:C:141:ARG:HH21	1.71	0.54
3:C:258:LEU:HB3	3:C:260:MET:SD	2.48	0.54
3:C:355:PHE:HB3	3:C:360:THR:O	2.08	0.54
1:F:267:VAL:HG22	1:F:488:ALA:CA	2.36	0.54
1:F:500:ALA:O	1:F:504:VAL:HG23	2.07	0.54
2:G:15:ILE:O	2:G:18:LEU:HD23	2.06	0.54
3:A:4:VAL:HG22	3:A:5:GLN:N	2.21	0.54
3:A:335:VAL:HG12	3:A:335:VAL:O	2.06	0.54
3:B:242:LEU:HD12	3:B:283:LEU:HB3	1.88	0.54
1:H:80:LEU:O	1:H:83:LEU:HB2	2.06	0.54
1:H:439:ASN:HB3	2:I:132:PRO:HB2	1.89	0.54
3:C:85:ALA:O	3:C:146:ARG:NH2	2.36	0.54
3:C:285:ILE:CD1	3:C:286:ARG:H	2.16	0.54
3:D:191:THR:OG1	3:D:192:HIS:N	2.39	0.54
3:D:193:ASP:O	3:D:194:GLN:C	2.46	0.54
3:D:266:VAL:CG2	3:D:267:TRP:N	2.70	0.54
2:G:187:SER:O	2:G:190:GLU:N	2.40	0.54
3:A:152:PRO:HG2	3:A:155:PHE:CE1	2.42	0.54
3:A:258:LEU:HB3	3:A:260:MET:SD	2.48	0.54
3:B:193:ASP:O	3:B:194:GLN:C	2.46	0.54
3:B:314:THR:HG22	3:B:315:GLN:H	1.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:381:TYR:HD1	1:H:381:TYR:C	2.10	0.54
3:C:309:GLN:O	3:C:310:LEU:HB2	2.06	0.54
3:C:335:VAL:HG12	3:C:335:VAL:O	2.06	0.54
1:F:431:ILE:HG13	1:F:432:ALA:H	1.71	0.54
2:G:239:ASP:O	2:G:243:TYR:CE2	2.61	0.54
3:A:120:VAL:HG23	3:A:121:LEU:N	2.23	0.54
3:A:355:PHE:HB3	3:A:360:THR:O	2.08	0.54
3:B:354:LEU:CG	3:B:355:PHE:N	2.70	0.54
2:I:137:LEU:HA	2:I:140:LEU:HD12	1.89	0.54
3:C:102:LEU:O	3:C:103:ALA:CB	2.55	0.54
3:D:18:VAL:CG1	3:D:19:SER:H	2.20	0.54
3:D:189:TYR:O	3:D:190:VAL:HG23	2.07	0.54
3:D:335:VAL:O	3:D:336:LEU:C	2.45	0.54
3:D:354:LEU:CG	3:D:355:PHE:N	2.70	0.54
1:F:457:THR:CB	1:F:461:ALA:HB3	2.38	0.54
3:A:294:ASP:OD1	3:A:295:ILE:HG13	2.08	0.54
3:B:163:ASN:O	3:B:164:LEU:HG	2.07	0.54
3:B:287:PRO:HG3	3:B:328:VAL:HB	1.88	0.54
3:B:334:VAL:O	3:B:335:VAL:CG2	2.56	0.54
1:H:457:THR:CB	1:H:461:ALA:HB3	2.38	0.54
2:I:34:VAL:O	2:I:37:ILE:O	2.26	0.54
2:I:230:VAL:HG12	2:I:231:PRO:N	2.23	0.54
3:C:9:VAL:HG22	3:C:59:ASP:O	2.08	0.54
3:C:230:VAL:O	3:C:234:ILE:HG13	2.07	0.54
3:C:294:ASP:OD1	3:C:295:ILE:HG13	2.08	0.54
3:D:45:LEU:HD12	3:D:207:LEU:HD11	1.90	0.54
1:F:336:PHE:HA	1:F:339:LEU:HD12	1.89	0.54
1:F:439:ASN:HB3	2:G:132:PRO:HB2	1.89	0.54
2:G:34:VAL:O	2:G:37:ILE:O	2.26	0.54
2:G:147:LEU:HD21	2:G:154:ILE:HD11	1.90	0.54
3:B:20:LYS:HG2	3:B:211:ARG:HD3	1.90	0.54
3:D:26:ILE:HD12	3:D:26:ILE:N	2.14	0.54
1:F:264:PHE:O	1:F:267:VAL:HG23	2.07	0.54
2:G:254:ASN:CB	2:G:255:PRO:CD	2.82	0.54
3:A:188:ILE:HG22	3:A:189:TYR:H	1.73	0.54
3:B:32:VAL:O	3:B:33:VAL:HG12	2.08	0.54
1:H:323:LEU:O	1:H:324:PRO:C	2.46	0.54
1:H:446:LEU:HD11	2:I:250:GLN:OE1	2.08	0.54
2:I:12:ARG:HG2	2:I:12:ARG:HH11	1.72	0.54
2:G:24:ILE:HD12	2:G:25:ALA:CA	2.38	0.54
3:A:15:GLU:O	3:A:17:VAL:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:186:THR:O	3:B:187:MET:CG	2.55	0.54
3:B:320:ILE:HG23	3:B:321:PRO:CD	2.31	0.54
1:H:280:ILE:HD13	1:H:470:TYR:CD1	2.34	0.54
2:I:3:MET:HG2	2:I:4:VAL:H	1.73	0.54
3:C:43:SER:O	3:C:46:LEU:HB2	2.08	0.54
3:C:186:THR:HG22	3:C:187:MET:H	1.73	0.54
1:F:381:TYR:HD1	1:F:381:TYR:C	2.10	0.54
3:A:62:ILE:C	3:A:64:GLU:N	2.60	0.54
1:H:275:LYS:N	1:H:276:PRO:CD	2.58	0.54
1:H:500:ALA:O	1:H:504:VAL:HG23	2.07	0.54
2:I:94:ILE:HD12	2:I:163:ILE:HD13	1.90	0.54
2:I:178:LYS:O	2:I:181:PHE:HB2	2.08	0.54
3:C:62:ILE:C	3:C:64:GLU:N	2.60	0.54
1:F:274:GLN:O	1:F:274:GLN:HG2	2.06	0.53
1:F:331:ILE:HD13	1:F:331:ILE:C	2.27	0.53
1:F:408:ALA:HB1	1:F:412:GLN:CB	2.38	0.53
1:F:409:GLY:HA2	1:F:412:GLN:H	1.72	0.53
1:F:496:LEU:HD12	1:F:496:LEU:O	2.08	0.53
2:G:94:ILE:HD12	2:G:163:ILE:HD13	1.90	0.53
2:G:173:HIS:CD2	2:G:218:VAL:HG22	2.43	0.53
3:B:77:VAL:HG12	3:B:78:GLY:H	1.71	0.53
3:B:281:MET:HB3	3:B:355:PHE:O	2.07	0.53
1:H:459:THR:HB	1:H:460:PRO:HD2	1.91	0.53
2:I:239:ASP:O	2:I:243:TYR:CE2	2.61	0.53
3:C:15:GLU:O	3:C:17:VAL:HG23	2.08	0.53
3:D:12:ALA:CB	3:D:17:VAL:HA	2.38	0.53
3:D:32:VAL:O	3:D:33:VAL:HG12	2.08	0.53
3:D:268:LEU:HD12	3:D:270:VAL:HG22	1.87	0.53
3:D:334:VAL:O	3:D:335:VAL:CG2	2.56	0.53
2:G:3:MET:HG2	2:G:4:VAL:H	1.73	0.53
2:G:178:LYS:O	2:G:181:PHE:HB2	2.08	0.53
3:A:239:MET:O	3:A:240:ASN:C	2.47	0.53
3:A:260:MET:HB2	3:A:261:PRO:HD2	1.90	0.53
1:H:336:PHE:HA	1:H:339:LEU:HD12	1.89	0.53
1:H:415:PHE:O	1:H:420:PRO:HD3	2.08	0.53
3:D:163:ASN:O	3:D:164:LEU:HG	2.07	0.53
1:F:264:PHE:O	1:F:265:THR:C	2.47	0.53
1:F:422:LEU:HA	1:F:425:PRO:CG	2.38	0.53
2:G:174:VAL:O	2:G:177:ILE:HG22	2.09	0.53
3:A:107:LYS:HB2	3:A:107:LYS:NZ	2.24	0.53
1:H:99:GLN:HE22	2:I:146:ARG:NH1	1.93	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:373:ILE:HG13	1:H:374:ILE:HG23	1.89	0.53
1:H:408:ALA:HB1	1:H:412:GLN:CB	2.38	0.53
2:I:17:HIS:O	2:I:20:LEU:HB3	2.08	0.53
3:C:236:SER:O	3:C:237:PRO:C	2.47	0.53
3:C:298:VAL:HG21	3:C:347:LEU:O	2.08	0.53
1:F:439:ASN:CB	2:G:132:PRO:HB2	2.39	0.53
3:A:298:VAL:HG21	3:A:347:LEU:O	2.08	0.53
3:B:260:MET:HB2	3:B:261:PRO:CD	2.29	0.53
1:H:496:LEU:O	1:H:496:LEU:HD12	2.08	0.53
2:I:28:MET:CA	2:I:31:LEU:HD21	2.33	0.53
2:I:81:VAL:O	2:I:84:TRP:HB2	2.09	0.53
2:I:198:THR:OG1	2:I:199:PRO:CD	2.56	0.53
3:C:188:ILE:HG22	3:C:189:TYR:H	1.73	0.53
3:D:20:LYS:HG2	3:D:211:ARG:HD3	1.90	0.53
1:F:83:LEU:HD11	2:G:131:PHE:HD1	1.73	0.53
1:F:344:PHE:CZ	2:G:257:ASN:CB	2.92	0.53
1:F:473:ARG:C	1:F:475:ALA:H	2.11	0.53
2:G:17:HIS:O	2:G:20:LEU:HB3	2.08	0.53
3:A:10:THR:CB	3:A:57:SER:HB3	2.37	0.53
3:A:23:ASN:O	3:A:24:LEU:HD23	2.09	0.53
3:B:12:ALA:CB	3:B:17:VAL:HA	2.38	0.53
3:B:45:LEU:HD12	3:B:207:LEU:HD11	1.90	0.53
2:I:31:LEU:H	2:I:31:LEU:CD2	2.01	0.53
2:I:147:LEU:HD21	2:I:154:ILE:HD11	1.90	0.53
3:C:120:VAL:HG23	3:C:121:LEU:N	2.23	0.53
3:D:186:THR:O	3:D:187:MET:CG	2.55	0.53
1:F:76:GLY:HA2	1:F:80:LEU:HD22	1.90	0.53
1:F:366:THR:HG23	1:F:367:THR:N	2.23	0.53
1:F:415:PHE:O	1:F:420:PRO:HD3	2.08	0.53
3:A:9:VAL:HG22	3:A:59:ASP:O	2.08	0.53
3:A:182:ARG:NH2	3:A:183:LEU:HG	2.24	0.53
3:B:191:THR:OG1	3:B:192:HIS:N	2.39	0.53
3:C:182:ARG:NH2	3:C:183:LEU:HG	2.24	0.53
3:D:177:SER:O	3:D:181:LYS:HG2	2.09	0.53
3:D:250:ALA:O	3:D:252:ASP:N	2.42	0.53
1:F:93:ASN:O	1:F:95:SER:N	2.40	0.53
1:F:423:ILE:CG1	1:F:424:LYS:H	2.22	0.53
2:G:124:GLY:O	2:G:128:PHE:HB2	2.09	0.53
3:A:128:ASP:O	3:A:129:ARG:O	2.27	0.53
1:H:280:ILE:HG13	1:H:467:LEU:CD2	2.39	0.53
3:D:190:VAL:CG1	3:D:191:THR:N	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:281:PHE:HA	1:F:467:LEU:CD2	2.36	0.53
1:F:323:LEU:O	1:F:324:PRO:C	2.46	0.53
1:F:373:ILE:HG13	1:F:374:ILE:HG23	1.89	0.53
2:G:230:VAL:HG12	2:G:231:PRO:N	2.23	0.53
3:B:329:TYR:OH	3:B:331:GLN:NE2	2.42	0.53
1:H:344:PHE:CZ	2:I:257:ASN:CB	2.92	0.53
1:H:422:LEU:HA	1:H:425:PRO:CG	2.38	0.53
2:I:24:ILE:HD12	2:I:25:ALA:CA	2.38	0.53
2:I:92:ALA:CB	2:I:227:ILE:HD13	2.34	0.53
3:C:204:ILE:HD12	3:C:221:LEU:HD12	1.91	0.53
3:C:353:HIS:CE1	3:C:364:ARG:HD3	2.44	0.53
3:C:371:VAL:O	3:C:371:VAL:HG12	2.08	0.53
2:G:81:VAL:O	2:G:84:TRP:HB2	2.09	0.53
3:A:253:GLN:HB2	3:A:267:TRP:HE3	1.74	0.53
3:A:291:LEU:HB3	3:A:292:PRO:CD	2.39	0.53
1:H:423:ILE:CG1	1:H:424:LYS:H	2.22	0.53
1:H:439:ASN:CB	2:I:132:PRO:HB2	2.39	0.53
1:H:473:ARG:C	1:H:475:ALA:H	2.11	0.53
2:I:134:VAL:C	2:I:136:SER:H	2.12	0.53
2:I:173:HIS:CD2	2:I:218:VAL:HG22	2.43	0.53
3:C:332:ASN:O	3:C:333:ASP:O	2.27	0.53
3:D:194:GLN:CD	3:D:194:GLN:H	2.12	0.53
3:D:228:ARG:HG2	3:D:228:ARG:HH11	1.73	0.53
2:G:174:VAL:HA	2:G:177:ILE:CG2	2.39	0.53
2:G:198:THR:OG1	2:G:199:PRO:CD	2.56	0.53
3:A:43:SER:O	3:A:46:LEU:HB2	2.08	0.53
3:A:349:PRO:HA	3:A:352:CYS:SG	2.49	0.53
3:B:194:GLN:H	3:B:194:GLN:CD	2.12	0.53
3:B:228:ARG:HG2	3:B:228:ARG:HH11	1.73	0.53
3:C:46:LEU:CD1	3:C:190:VAL:HG23	2.39	0.53
3:C:291:LEU:HB3	3:C:292:PRO:CD	2.39	0.53
3:D:328:VAL:HG12	3:D:329:TYR:N	2.23	0.53
1:F:77:LEU:O	1:F:82:PRO:HD3	2.09	0.52
1:F:457:THR:HB	1:F:461:ALA:HB3	1.89	0.52
2:G:104:THR:HG22	2:G:105:THR:N	2.24	0.52
3:A:5:GLN:O	3:A:6:LEU:HD12	2.09	0.52
3:A:145:GLY:HA2	3:A:148:LEU:CD1	2.35	0.52
3:A:332:ASN:O	3:A:333:ASP:O	2.27	0.52
3:B:83:SER:O	3:B:84:TYR:CD2	2.62	0.52
3:B:177:SER:O	3:B:181:LYS:HG2	2.09	0.52
3:B:298:VAL:HB	3:B:347:LEU:N	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:335:VAL:O	3:B:336:LEU:C	2.45	0.52
1:H:264:PHE:O	1:H:265:THR:C	2.47	0.52
3:C:128:ASP:O	3:C:129:ARG:O	2.27	0.52
3:C:160:PRO:O	3:C:161:LEU:HG	2.09	0.52
3:D:76:GLY:O	3:D:152:PRO:O	2.27	0.52
2:G:244:THR:HG1	2:G:246:ALA:HB3	1.71	0.52
3:A:9:VAL:O	3:A:21:ASP:HA	2.09	0.52
3:A:84:TYR:CE1	3:A:140:GLN:NE2	2.77	0.52
3:A:140:GLN:OE1	3:A:164:LEU:HD11	2.09	0.52
3:A:191:THR:O	3:A:192:HIS:CD2	2.63	0.52
3:A:204:ILE:HD12	3:A:221:LEU:HD12	1.91	0.52
3:A:336:LEU:C	3:A:337:VAL:HG23	2.30	0.52
3:B:76:GLY:O	3:B:152:PRO:O	2.27	0.52
3:B:188:ILE:CD1	3:B:188:ILE:H	2.19	0.52
3:B:190:VAL:CG1	3:B:191:THR:N	2.71	0.52
3:B:328:VAL:HG12	3:B:329:TYR:N	2.23	0.52
1:H:45:THR:HG23	1:H:46:THR:N	2.24	0.52
1:H:366:THR:HG23	1:H:367:THR:N	2.23	0.52
2:I:124:GLY:O	2:I:128:PHE:HB2	2.09	0.52
3:C:285:ILE:HD12	3:C:286:ARG:N	2.16	0.52
3:C:311:GLY:C	3:C:313:GLU:H	2.12	0.52
3:D:188:ILE:CD1	3:D:188:ILE:H	2.19	0.52
1:F:110:LEU:HD23	1:F:110:LEU:C	2.30	0.52
2:G:134:VAL:C	2:G:136:SER:H	2.12	0.52
3:A:353:HIS:CE1	3:A:364:ARG:HD3	2.44	0.52
3:B:125:HIS:NE2	3:B:126:LEU:HG	2.24	0.52
3:C:8:ASN:O	3:C:58:GLY:HA3	2.10	0.52
3:C:140:GLN:OE1	3:C:164:LEU:HD11	2.10	0.52
1:F:280:ILE:HG13	1:F:467:LEU:CD2	2.39	0.52
1:F:280:ILE:HD11	1:F:467:LEU:HD13	1.91	0.52
1:F:296:VAL:HG21	1:F:426:LEU:HD21	1.91	0.52
3:A:186:THR:HG22	3:A:187:MET:H	1.73	0.52
3:A:190:VAL:O	3:A:191:THR:HB	2.07	0.52
3:B:11:LYS:N	3:B:19:SER:HB2	2.24	0.52
1:H:77:LEU:O	1:H:82:PRO:HD3	2.09	0.52
1:H:375:VAL:HG11	1:H:443:LEU:HD11	1.91	0.52
3:C:5:GLN:O	3:C:6:LEU:HD12	2.09	0.52
3:C:9:VAL:O	3:C:21:ASP:HA	2.09	0.52
3:D:125:HIS:NE2	3:D:126:LEU:HG	2.24	0.52
1:F:45:THR:HG23	1:F:46:THR:N	2.24	0.52
1:F:501:LEU:CD1	2:G:127:ILE:HG23	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:188:ILE:H	3:A:188:ILE:CD1	2.20	0.52
3:A:232:GLY:HA3	3:A:238:LYS:HZ1	1.75	0.52
3:A:371:VAL:HG12	3:A:371:VAL:O	2.08	0.52
1:H:501:LEU:CD1	2:I:127:ILE:HG23	2.39	0.52
2:I:174:VAL:O	2:I:177:ILE:HG22	2.09	0.52
2:I:230:VAL:HG12	2:I:231:PRO:CD	2.40	0.52
3:C:9:VAL:HG12	3:C:10:THR:H	1.74	0.52
3:C:107:LYS:HB2	3:C:107:LYS:NZ	2.24	0.52
3:C:349:PRO:HA	3:C:352:CYS:SG	2.49	0.52
3:D:60:LEU:C	3:D:61:PHE:CD1	2.83	0.52
3:D:232:GLY:CA	3:D:238:LYS:HE2	2.39	0.52
3:D:275:VAL:HG23	3:D:275:VAL:O	2.10	0.52
3:D:311:GLY:O	3:D:313:GLU:N	2.42	0.52
1:F:306:VAL:HG11	1:F:318:ARG:HD3	1.92	0.52
1:F:446:LEU:HD11	2:G:250:GLN:OE1	2.08	0.52
1:F:459:THR:HB	1:F:460:PRO:HD2	1.91	0.52
2:G:230:VAL:HG12	2:G:231:PRO:CD	2.40	0.52
3:A:160:PRO:O	3:A:161:LEU:HG	2.09	0.52
3:B:60:LEU:C	3:B:61:PHE:CD1	2.83	0.52
3:B:100:LEU:HD13	3:B:110:ILE:CG1	2.40	0.52
3:B:268:LEU:HD12	3:B:270:VAL:HG22	1.87	0.52
1:H:306:VAL:HG11	1:H:318:ARG:HD3	1.92	0.52
2:I:36:ALA:O	2:I:37:ILE:HG12	2.09	0.52
3:C:122:GLN:O	3:C:123:LEU:HD12	2.10	0.52
3:C:260:MET:HB2	3:C:261:PRO:HD2	1.90	0.52
3:C:336:LEU:C	3:C:337:VAL:HG23	2.30	0.52
3:D:55:ILE:HG21	3:D:68:ASN:ND2	2.25	0.52
3:D:83:SER:O	3:D:84:TYR:CD2	2.62	0.52
3:D:335:VAL:HG12	3:D:337:VAL:HG23	1.92	0.52
1:F:78:PHE:O	1:F:82:PRO:HG2	2.10	0.52
1:F:96:SER:O	1:F:97:THR:CG2	2.57	0.52
3:A:356:ARG:HG3	3:A:356:ARG:HH11	1.74	0.52
3:B:311:GLY:O	3:B:313:GLU:N	2.42	0.52
1:H:76:GLY:HA2	1:H:80:LEU:HD22	1.90	0.52
1:H:90:ALA:HB1	1:H:490:ILE:HD12	1.92	0.52
1:H:280:ILE:HD11	1:H:467:LEU:HD13	1.91	0.52
1:H:284:THR:CG2	1:H:466:LEU:CA	2.74	0.52
2:I:95:SER:O	2:I:99:ILE:HG13	2.10	0.52
2:I:245:LEU:HG	2:I:249:MET:HE2	1.92	0.52
3:C:190:VAL:CG1	3:C:191:THR:N	2.73	0.52
3:C:191:THR:O	3:C:192:HIS:CD2	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:260:MET:HB2	3:C:261:PRO:CD	2.39	0.52
3:D:329:TYR:OH	3:D:331:GLN:NE2	2.42	0.52
2:G:91:VAL:O	2:G:95:SER:HB2	2.10	0.52
2:G:174:VAL:CA	2:G:177:ILE:HG22	2.40	0.52
2:G:227:ILE:C	2:G:229:GLU:H	2.13	0.52
3:A:46:LEU:CD1	3:A:190:VAL:HG23	2.39	0.52
3:A:190:VAL:CG1	3:A:191:THR:N	2.73	0.52
1:H:110:LEU:C	1:H:110:LEU:HD23	2.30	0.52
3:C:84:TYR:CE1	3:C:140:GLN:NE2	2.77	0.52
3:A:41:GLY:O	3:A:44:THR:HB	2.10	0.52
3:A:311:GLY:C	3:A:313:GLU:H	2.12	0.52
3:C:96:MET:HE2	3:C:145:GLY:HA3	1.92	0.52
3:D:11:LYS:N	3:D:19:SER:HB2	2.24	0.52
1:F:92:THR:HG23	1:F:93:ASN:N	2.19	0.52
1:F:265:THR:HG23	1:F:266:ARG:N	2.25	0.52
1:F:364:ASP:HB3	1:F:367:THR:CG2	2.40	0.52
1:F:381:TYR:CD1	1:F:382:PRO:N	2.62	0.52
3:A:243:PRO:C	3:A:244:VAL:HG22	2.31	0.52
3:A:307:VAL:HA	3:A:316:ILE:HG12	1.92	0.52
3:B:247:THR:HG21	3:B:265:GLN:OE1	2.10	0.52
3:B:250:ALA:O	3:B:252:ASP:N	2.42	0.52
3:C:40:CYS:HB3	3:C:42:LYS:HZ1	1.74	0.52
3:A:145:GLY:HA2	3:A:148:LEU:HB2	1.92	0.51
3:A:260:MET:HB2	3:A:261:PRO:CD	2.39	0.51
3:B:275:VAL:HG23	3:B:275:VAL:O	2.10	0.51
3:B:323:ILE:HG12	3:B:324:ARG:N	2.25	0.51
2:I:104:THR:HG22	2:I:105:THR:N	2.24	0.51
3:C:91:SER:CB	3:C:129:ARG:O	2.58	0.51
3:C:303:GLU:O	3:C:318:ILE:HG23	2.10	0.51
3:D:55:ILE:HD12	3:D:55:ILE:H	1.75	0.51
3:D:100:LEU:HD13	3:D:110:ILE:CG1	2.40	0.51
3:D:120:VAL:CG2	3:D:121:LEU:N	2.73	0.51
3:D:246:VAL:HG23	3:D:279:ALA:O	2.10	0.51
3:D:323:ILE:HG12	3:D:324:ARG:N	2.25	0.51
1:F:375:VAL:HG11	1:F:443:LEU:HD11	1.91	0.51
3:A:9:VAL:HG12	3:A:10:THR:H	1.74	0.51
3:A:122:GLN:O	3:A:123:LEU:HD12	2.10	0.51
1:H:78:PHE:O	1:H:82:PRO:HG2	2.10	0.51
1:H:96:SER:O	1:H:97:THR:CG2	2.57	0.51
1:H:267:VAL:HG13	1:H:488:ALA:CB	2.40	0.51
1:H:342:GLN:CD	1:H:362:PHE:HB2	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:364:ASP:HB3	1:H:367:THR:CG2	2.40	0.51
2:I:107:ALA:O	2:I:110:PHE:HB2	2.10	0.51
2:I:174:VAL:HA	2:I:177:ILE:CG2	2.39	0.51
3:C:23:ASN:O	3:C:24:LEU:HD23	2.09	0.51
3:C:145:GLY:HA2	3:C:148:LEU:HB2	1.92	0.51
3:C:155:PHE:HB2	3:C:187:MET:CG	2.40	0.51
3:C:253:GLN:HB2	3:C:267:TRP:HE3	1.74	0.51
3:C:356:ARG:HH11	3:C:356:ARG:HG3	1.74	0.51
3:D:34:PHE:O	3:D:35:VAL:CG1	2.48	0.51
2:G:107:ALA:O	2:G:110:PHE:HB2	2.11	0.51
2:G:114:ARG:HG2	2:G:118:LYS:HZ1	1.73	0.51
1:H:270:ASP:HB3	1:H:274:GLN:HB2	1.92	0.51
2:I:227:ILE:HG22	2:I:228:THR:N	2.25	0.51
1:F:345:GLY:C	1:F:347:ILE:N	2.62	0.51
1:F:454:ARG:HB2	1:F:457:THR:HG21	1.93	0.51
1:F:503:ILE:HG22	1:F:507:LYS:NZ	2.24	0.51
3:A:8:ASN:O	3:A:58:GLY:HA3	2.10	0.51
3:A:62:ILE:HG22	3:A:63:GLY:N	2.25	0.51
3:A:301:GLU:CA	3:A:344:ALA:HB2	2.35	0.51
3:B:55:ILE:HD12	3:B:55:ILE:H	1.75	0.51
3:B:232:GLY:CA	3:B:238:LYS:HE2	2.39	0.51
3:B:368:GLU:CB	3:B:369:PRO:HD2	2.28	0.51
1:H:83:LEU:HD11	2:I:131:PHE:HD1	1.74	0.51
3:C:239:MET:O	3:C:240:ASN:C	2.47	0.51
3:C:291:LEU:O	3:C:345:ILE:HB	2.10	0.51
3:D:236:SER:CB	3:D:237:PRO:HD3	2.35	0.51
3:D:336:LEU:C	3:D:337:VAL:HG23	2.31	0.51
1:F:267:VAL:HG13	1:F:488:ALA:CB	2.40	0.51
1:F:483:ASP:O	1:F:485:GLY:N	2.44	0.51
2:G:36:ALA:O	2:G:37:ILE:HG12	2.10	0.51
3:A:55:ILE:HD13	3:A:68:ASN:CB	2.41	0.51
3:A:310:LEU:O	3:A:312:ASN:N	2.44	0.51
3:B:120:VAL:CG2	3:B:121:LEU:N	2.73	0.51
3:B:335:VAL:HG12	3:B:337:VAL:HG23	1.92	0.51
1:H:296:VAL:HG21	1:H:426:LEU:HD21	1.91	0.51
1:H:317:TYR:OH	2:I:17:HIS:CD2	2.64	0.51
1:H:396:PRO:HB2	1:H:398:ASP:OD1	2.11	0.51
1:H:444:ILE:HG21	1:H:469:ASN:OD1	2.10	0.51
3:C:6:LEU:CG	3:C:9:VAL:HG21	2.41	0.51
3:C:156:LEU:N	3:C:156:LEU:HD23	2.24	0.51
3:C:243:PRO:C	3:C:244:VAL:HG22	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:294:ASP:OD1	3:C:295:ILE:N	2.44	0.51
3:D:247:THR:HG21	3:D:265:GLN:OE1	2.10	0.51
1:F:396:PRO:HB2	1:F:398:ASP:OD1	2.11	0.51
2:G:227:ILE:HG22	2:G:228:THR:N	2.25	0.51
3:A:4:VAL:CG2	3:A:5:GLN:N	2.74	0.51
3:A:291:LEU:O	3:A:345:ILE:HB	2.10	0.51
3:B:55:ILE:HG21	3:B:68:ASN:ND2	2.25	0.51
3:B:164:LEU:HD13	3:B:168:LEU:CD2	2.38	0.51
3:B:172:MET:O	3:B:176:ILE:HG12	2.11	0.51
1:H:503:ILE:HG22	1:H:507:LYS:NZ	2.25	0.51
2:I:225:ALA:HA	2:I:228:THR:CG2	2.41	0.51
3:D:214:GLN:HG2	3:D:215:VAL:N	2.26	0.51
3:D:309:GLN:O	3:D:311:GLY:N	2.39	0.51
2:G:4:VAL:HG11	3:B:72:PRO:HD3	1.93	0.51
2:G:286:VAL:O	2:G:287:ASN:CG	2.49	0.51
1:H:87:ILE:O	1:H:90:ALA:CB	2.58	0.51
1:H:92:THR:HA	1:H:263:ASN:HA	1.93	0.51
1:H:265:THR:HG23	1:H:266:ARG:N	2.25	0.51
2:I:227:ILE:O	2:I:229:GLU:N	2.43	0.51
2:I:286:VAL:O	2:I:287:ASN:CG	2.49	0.51
3:C:307:VAL:HA	3:C:316:ILE:HG12	1.92	0.51
3:D:120:VAL:HG23	3:D:121:LEU:N	2.25	0.51
1:F:88:ALA:O	1:F:89:ILE:C	2.49	0.51
1:F:270:ASP:HB3	1:F:274:GLN:HB2	1.92	0.51
2:G:95:SER:O	2:G:99:ILE:HG13	2.10	0.51
2:G:132:PRO:O	2:G:134:VAL:HG12	2.11	0.51
2:G:225:ALA:HA	2:G:228:THR:CG2	2.41	0.51
3:A:294:ASP:OD1	3:A:295:ILE:N	2.44	0.51
3:A:334:VAL:CG1	3:A:335:VAL:H	2.17	0.51
3:B:18:VAL:CG1	3:B:19:SER:H	2.20	0.51
1:H:345:GLY:C	1:H:347:ILE:N	2.62	0.51
3:D:350:GLU:N	3:D:350:GLU:OE2	2.44	0.51
3:A:6:LEU:CG	3:A:9:VAL:HG21	2.41	0.51
3:A:156:LEU:HD23	3:A:156:LEU:N	2.24	0.51
3:A:210:GLY:O	3:A:211:ARG:HG2	2.11	0.51
2:I:4:VAL:HG11	3:D:72:PRO:HD3	1.93	0.51
2:I:227:ILE:C	2:I:229:GLU:H	2.13	0.51
3:C:145:GLY:HA2	3:C:148:LEU:CD1	2.35	0.51
3:C:214:GLN:CG	3:C:215:VAL:N	2.59	0.51
3:C:306:VAL:CG2	3:C:317:HIS:ND1	2.74	0.51
3:C:310:LEU:O	3:C:312:ASN:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:243:PRO:O	3:D:244:VAL:HG22	2.11	0.51
1:F:398:ASP:O	1:F:399:LEU:C	2.49	0.51
2:G:147:LEU:CD2	2:G:154:ILE:HD11	2.41	0.51
2:G:197:ALA:HB1	2:G:202:ALA:N	2.26	0.51
3:B:92:VAL:HG11	3:B:126:LEU:O	2.11	0.51
3:B:246:VAL:HG23	3:B:279:ALA:O	2.10	0.51
1:H:302:LEU:CD2	1:H:321:LEU:HD13	2.41	0.51
3:C:41:GLY:O	3:C:44:THR:HB	2.10	0.51
3:C:62:ILE:HG22	3:C:63:GLY:N	2.25	0.51
3:D:92:VAL:HG11	3:D:126:LEU:O	2.11	0.51
1:F:99:GLN:HG3	1:F:100:LEU:N	2.26	0.50
1:F:302:LEU:CD2	1:F:321:LEU:HD13	2.41	0.50
1:F:306:VAL:CG1	1:F:318:ARG:HD3	2.40	0.50
3:A:155:PHE:HB2	3:A:187:MET:CG	2.40	0.50
3:A:303:GLU:O	3:A:318:ILE:HG23	2.10	0.50
1:H:341:ASN:CG	1:H:344:PHE:HB2	2.31	0.50
1:H:421:LEU:O	1:H:422:LEU:HG	2.11	0.50
1:H:498:VAL:HA	1:H:501:LEU:CD1	2.40	0.50
2:I:174:VAL:CA	2:I:177:ILE:HG22	2.40	0.50
1:F:92:THR:HA	1:F:263:ASN:HA	1.93	0.50
3:A:272:SER:O	3:A:273:ARG:C	2.50	0.50
3:A:306:VAL:CG2	3:A:317:HIS:ND1	2.74	0.50
3:B:169:ARG:CB	3:B:169:ARG:HH11	2.24	0.50
3:B:247:THR:HG21	3:B:265:GLN:CD	2.31	0.50
1:H:377:THR:HG22	1:H:378:TRP:N	2.25	0.50
1:H:396:PRO:O	1:H:399:LEU:HB2	2.11	0.50
1:H:441:PHE:CE1	1:H:445:GLN:HG3	2.47	0.50
2:I:91:VAL:O	2:I:95:SER:HB2	2.10	0.50
2:I:132:PRO:O	2:I:134:VAL:HG12	2.11	0.50
3:C:210:GLY:O	3:C:211:ARG:HG2	2.11	0.50
3:C:246:VAL:HG13	3:C:255:GLN:O	2.11	0.50
3:D:197:ALA:O	3:D:201:ALA:HB2	2.10	0.50
3:D:198:MET:HE1	3:D:234:ILE:HG21	1.93	0.50
3:D:247:THR:HG21	3:D:265:GLN:CD	2.31	0.50
3:D:323:ILE:HG12	3:D:324:ARG:H	1.76	0.50
1:F:87:ILE:O	1:F:90:ALA:CB	2.58	0.50
1:F:333:ILE:C	1:F:336:PHE:HB2	2.31	0.50
3:A:44:THR:HG22	3:A:48:MET:CE	2.41	0.50
3:A:203:LYS:HG2	3:A:204:ILE:H	1.76	0.50
3:B:120:VAL:HG23	3:B:121:LEU:N	2.25	0.50
3:B:350:GLU:CB	3:B:366:HIS:CE1	2.95	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:306:VAL:CG1	1:H:318:ARG:HD3	2.40	0.50
2:I:197:ALA:HB1	2:I:202:ALA:N	2.26	0.50
3:C:4:VAL:CG2	3:C:5:GLN:N	2.74	0.50
3:C:34:PHE:O	3:C:35:VAL:HG12	2.11	0.50
1:F:341:ASN:CG	1:F:344:PHE:HB2	2.31	0.50
3:A:80:VAL:CG2	3:A:160:PRO:HB3	2.41	0.50
3:A:236:SER:O	3:A:237:PRO:C	2.47	0.50
3:B:336:LEU:C	3:B:337:VAL:HG23	2.31	0.50
3:B:350:GLU:N	3:B:350:GLU:OE2	2.44	0.50
1:H:434:PHE:CD1	1:H:434:PHE:C	2.84	0.50
1:H:486:LEU:HB2	1:H:489:ALA:HB3	1.93	0.50
2:I:114:ARG:HG2	2:I:118:LYS:HZ1	1.75	0.50
2:I:147:LEU:CD2	2:I:154:ILE:HD11	2.41	0.50
3:C:258:LEU:N	3:C:258:LEU:CD2	2.75	0.50
3:D:55:ILE:HG21	3:D:68:ASN:OD1	2.12	0.50
3:D:169:ARG:CB	3:D:169:ARG:HH11	2.24	0.50
1:F:90:ALA:HB1	1:F:490:ILE:HD12	1.92	0.50
1:F:317:TYR:OH	2:G:17:HIS:CD2	2.64	0.50
1:F:396:PRO:O	1:F:399:LEU:HB2	2.11	0.50
2:G:227:ILE:O	2:G:229:GLU:N	2.43	0.50
3:A:66:ARG:O	3:A:67:MET:CG	2.49	0.50
3:A:334:VAL:C	3:A:335:VAL:HG23	2.32	0.50
3:B:214:GLN:CG	3:B:215:VAL:N	2.75	0.50
3:B:253:GLN:CB	3:B:267:TRP:CE3	2.95	0.50
3:B:276:GLN:HE21	3:B:277:VAL:H	1.60	0.50
1:H:345:GLY:C	1:H:347:ILE:H	2.15	0.50
2:I:244:THR:H	2:I:247:VAL:HG23	1.76	0.50
3:C:203:LYS:HG2	3:C:204:ILE:H	1.76	0.50
3:C:334:VAL:CG1	3:C:335:VAL:H	2.16	0.50
3:D:9:VAL:O	3:D:21:ASP:HA	2.12	0.50
3:D:188:ILE:HG22	3:D:189:TYR:H	1.76	0.50
3:D:276:GLN:HE21	3:D:277:VAL:H	1.60	0.50
1:F:425:PRO:HG2	1:F:426:LEU:H	1.77	0.50
2:G:209:PRO:HA	2:G:212:VAL:HG23	1.93	0.50
3:A:13:TRP:HH2	3:A:53:GLU:CD	2.15	0.50
3:B:235:GLY:O	3:B:236:SER:O	2.30	0.50
3:B:256:VAL:O	3:B:265:GLN:HA	2.12	0.50
3:C:110:ILE:O	3:C:114:VAL:CG2	2.55	0.50
3:D:291:LEU:HB3	3:D:292:PRO:CD	2.42	0.50
2:G:262:ASP:O	2:G:265:ALA:HB3	2.12	0.50
3:A:91:SER:CB	3:A:129:ARG:O	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:246:VAL:HG13	3:A:255:GLN:O	2.11	0.50
3:B:7:GLN:HA	3:B:23:ASN:OD1	2.12	0.50
3:B:214:GLN:HG2	3:B:215:VAL:N	2.26	0.50
3:B:276:GLN:HG3	3:B:277:VAL:O	2.11	0.50
1:H:498:VAL:HG22	1:H:501:LEU:HD12	1.94	0.50
3:C:34:PHE:C	3:C:35:VAL:HG13	2.32	0.50
3:C:55:ILE:HD13	3:C:68:ASN:CB	2.41	0.50
3:C:80:VAL:CG2	3:C:160:PRO:HB3	2.41	0.50
3:D:349:PRO:O	3:D:352:CYS:CB	2.55	0.50
1:F:421:LEU:O	1:F:422:LEU:HG	2.11	0.50
3:B:290:LEU:HD22	3:B:345:ILE:HD13	1.93	0.50
3:B:299:ILE:HG22	3:B:300:LEU:N	2.27	0.50
1:H:99:GLN:HG3	1:H:100:LEU:N	2.26	0.50
1:H:280:ILE:CD1	1:H:467:LEU:HD13	2.41	0.50
1:H:425:PRO:HG2	1:H:426:LEU:H	1.77	0.50
2:I:29:PHE:HB3	2:I:30:PRO:CD	2.33	0.50
3:C:204:ILE:HB	3:C:221:LEU:HD11	1.93	0.50
3:C:252:ASP:O	3:C:270:VAL:O	2.30	0.50
3:C:272:SER:O	3:C:273:ARG:C	2.50	0.50
3:D:236:SER:CB	3:D:237:PRO:CD	2.90	0.50
3:D:276:GLN:HG3	3:D:277:VAL:O	2.11	0.50
3:D:311:GLY:C	3:D:313:GLU:N	2.65	0.50
1:F:280:ILE:CD1	1:F:467:LEU:HD13	2.41	0.50
1:F:414:PHE:HA	1:F:418:THR:HG23	1.93	0.50
2:G:4:VAL:HG22	2:G:5:GLN:N	2.27	0.50
3:A:314:THR:HG22	3:A:315:GLN:N	2.27	0.50
3:B:197:ALA:O	3:B:201:ALA:HB2	2.10	0.50
2:I:209:PRO:HA	2:I:212:VAL:HG23	1.93	0.50
2:I:262:ASP:O	2:I:265:ALA:HB3	2.12	0.50
3:C:204:ILE:CG2	3:C:205:VAL:N	2.61	0.50
3:D:214:GLN:OE1	3:D:230:VAL:HG11	2.12	0.50
1:F:342:GLN:CD	1:F:362:PHE:HB2	2.31	0.49
1:F:444:ILE:HG21	1:F:469:ASN:OD1	2.10	0.49
2:G:88:SER:HB3	2:G:227:ILE:CD1	2.42	0.49
3:A:96:MET:HE2	3:A:145:GLY:HA3	1.93	0.49
3:A:204:ILE:HB	3:A:221:LEU:HD11	1.93	0.49
3:B:38:SER:C	3:B:40:CYS:H	2.15	0.49
3:B:188:ILE:HG22	3:B:189:TYR:H	1.76	0.49
3:B:323:ILE:HG12	3:B:324:ARG:H	1.76	0.49
1:H:76:GLY:HA2	1:H:80:LEU:HB2	1.94	0.49
1:H:454:ARG:HB2	1:H:457:THR:HG21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:13:TRP:HH2	3:C:53:GLU:CD	2.15	0.49
3:D:134:LEU:HD22	3:D:138:GLN:OE1	2.12	0.49
3:D:172:MET:O	3:D:176:ILE:HG12	2.11	0.49
3:D:243:PRO:CB	3:D:259:PRO:HG3	2.31	0.49
1:F:263:ASN:OD1	1:F:264:PHE:N	2.45	0.49
1:F:312:ARG:CG	1:F:313:GLY:N	2.75	0.49
1:F:427:THR:O	1:F:431:ILE:HG12	2.13	0.49
1:F:441:PHE:CE1	1:F:445:GLN:HG3	2.47	0.49
1:F:490:ILE:CG1	2:G:135:LEU:HD23	2.23	0.49
1:F:498:VAL:HG22	1:F:501:LEU:HD12	1.94	0.49
3:A:34:PHE:O	3:A:35:VAL:HG12	2.11	0.49
3:B:132:LYS:HG3	3:B:133:ALA:N	2.26	0.49
3:B:236:SER:CB	3:B:237:PRO:CD	2.90	0.49
3:B:255:GLN:C	3:B:256:VAL:HG13	2.33	0.49
3:B:291:LEU:HB3	3:B:292:PRO:CD	2.42	0.49
1:H:333:ILE:C	1:H:336:PHE:HB2	2.31	0.49
3:C:44:THR:HG22	3:C:48:MET:CE	2.41	0.49
3:D:7:GLN:HA	3:D:23:ASN:OD1	2.12	0.49
3:D:253:GLN:CB	3:D:267:TRP:CE3	2.95	0.49
1:F:76:GLY:HA2	1:F:80:LEU:HB2	1.94	0.49
1:F:377:THR:HG22	1:F:378:TRP:N	2.25	0.49
1:F:434:PHE:CD1	1:F:434:PHE:C	2.84	0.49
1:F:486:LEU:HB2	1:F:489:ALA:HB3	1.93	0.49
2:G:244:THR:H	2:G:247:VAL:HG23	1.76	0.49
3:A:46:LEU:O	3:A:49:ILE:HB	2.12	0.49
3:A:258:LEU:N	3:A:258:LEU:CD2	2.75	0.49
3:A:319:GLN:O	3:A:319:GLN:HG2	2.13	0.49
3:B:84:TYR:O	3:B:85:ALA:HB3	2.12	0.49
1:H:409:GLY:HA2	1:H:412:GLN:N	2.27	0.49
3:C:88:PRO:CA	3:C:131:PRO:HG2	2.42	0.49
3:C:91:SER:O	3:C:95:ASN:HB2	2.12	0.49
3:C:314:THR:HG22	3:C:315:GLN:N	2.27	0.49
3:D:132:LYS:HG3	3:D:133:ALA:N	2.26	0.49
3:D:164:LEU:CD1	3:D:168:LEU:HD23	2.38	0.49
3:D:180:HIS:HA	3:D:187:MET:HE3	1.93	0.49
3:D:235:GLY:O	3:D:236:SER:O	2.30	0.49
3:D:255:GLN:C	3:D:256:VAL:HG13	2.33	0.49
1:F:409:GLY:HA2	1:F:412:GLN:N	2.27	0.49
3:A:227:ASP:OD1	3:A:230:VAL:HG23	2.12	0.49
3:A:339:GLU:C	3:A:341:ALA:H	2.15	0.49
3:B:134:LEU:HD22	3:B:138:GLN:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:227:ASP:HA	3:B:361:ALA:HB2	1.93	0.49
1:H:288:SER:OG	1:H:438:PHE:CA	2.60	0.49
1:H:330:PHE:HA	1:H:333:ILE:HD11	1.94	0.49
1:H:372:LEU:HD13	1:H:447:LEU:HD12	1.94	0.49
3:C:205:VAL:HG12	3:C:207:LEU:HD23	1.95	0.49
3:C:222:TYR:OH	3:C:288:GLU:OE2	2.22	0.49
3:C:334:VAL:C	3:C:335:VAL:HG23	2.32	0.49
3:C:342:THR:O	3:C:343:PHE:HB2	2.11	0.49
3:D:77:VAL:CG1	3:D:78:GLY:H	2.25	0.49
3:D:227:ASP:HA	3:D:361:ALA:HB2	1.93	0.49
3:D:240:ASN:ND2	3:D:287:PRO:HG3	2.28	0.49
1:F:91:PHE:O	1:F:263:ASN:CG	2.51	0.49
3:A:301:GLU:HG2	3:A:302:GLY:N	2.28	0.49
3:B:9:VAL:O	3:B:21:ASP:HA	2.12	0.49
3:B:22:ILE:O	3:B:23:ASN:CG	2.51	0.49
1:H:263:ASN:OD1	1:H:264:PHE:N	2.45	0.49
1:H:358:LYS:O	1:H:358:LYS:CG	2.58	0.49
1:H:432:ALA:O	1:H:435:ALA:HB3	2.13	0.49
2:I:93:GLY:CA	2:I:223:PHE:HE1	2.21	0.49
3:C:20:LYS:O	3:C:211:ARG:NE	2.46	0.49
3:C:222:TYR:OH	3:D:312:ASN:HB3	2.12	0.49
3:D:214:GLN:CG	3:D:215:VAL:N	2.75	0.49
1:F:87:ILE:HG13	1:F:490:ILE:HG22	1.93	0.49
1:F:346:GLU:HA	1:F:349:MET:CG	2.32	0.49
1:F:501:LEU:HB3	2:G:127:ILE:CG2	2.36	0.49
2:G:172:LEU:CD2	2:G:173:HIS:N	2.73	0.49
2:G:187:SER:O	2:G:188:LEU:C	2.50	0.49
2:G:194:LEU:CA	3:A:73:ALA:HB2	2.41	0.49
3:A:339:GLU:O	3:A:341:ALA:N	2.43	0.49
3:B:49:ILE:O	3:B:75:ARG:NH1	2.46	0.49
3:B:126:LEU:HD11	3:B:138:GLN:CD	2.32	0.49
3:B:243:PRO:O	3:B:244:VAL:HG22	2.11	0.49
1:H:87:ILE:HG13	1:H:490:ILE:HG22	1.93	0.49
1:H:296:VAL:HG12	1:H:297:ALA:N	2.28	0.49
1:H:414:PHE:HA	1:H:418:THR:HG23	1.93	0.49
2:I:85:LEU:CA	2:I:245:LEU:HD13	2.43	0.49
3:C:163:ASN:O	3:C:164:LEU:HG	2.13	0.49
3:C:227:ASP:OD1	3:C:230:VAL:HG23	2.13	0.49
3:C:319:GLN:O	3:C:319:GLN:HG2	2.12	0.49
3:C:339:GLU:C	3:C:341:ALA:H	2.15	0.49
3:D:271:GLU:HB2	3:D:363:ARG:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:290:LEU:HD22	3:D:345:ILE:HD13	1.93	0.49
3:D:299:ILE:HG22	3:D:300:LEU:N	2.27	0.49
2:G:134:VAL:C	2:G:136:SER:N	2.66	0.49
3:A:328:VAL:HG12	3:A:329:TYR:H	1.78	0.49
3:B:32:VAL:O	3:B:33:VAL:CG1	2.61	0.49
1:H:312:ARG:CG	1:H:313:GLY:N	2.75	0.49
3:D:126:LEU:HD11	3:D:138:GLN:CD	2.32	0.49
3:D:164:LEU:HD13	3:D:168:LEU:CD2	2.38	0.49
3:D:267:TRP:O	3:D:268:LEU:HD23	2.12	0.49
3:D:272:SER:O	3:D:273:ARG:C	2.51	0.49
1:F:401:GLU:O	1:F:404:ALA:HB3	2.13	0.49
2:G:35:VAL:C	2:G:37:ILE:N	2.56	0.49
3:A:34:PHE:C	3:A:35:VAL:HG13	2.32	0.49
3:A:91:SER:O	3:A:95:ASN:HB2	2.12	0.49
3:A:222:TYR:OH	3:B:312:ASN:HB3	2.12	0.49
3:A:228:ARG:HD2	3:A:228:ARG:O	2.13	0.49
3:B:12:ALA:HA	3:B:17:VAL:HA	1.95	0.49
3:B:214:GLN:OE1	3:B:230:VAL:HG11	2.12	0.49
1:H:372:LEU:HD12	1:H:443:LEU:CG	2.43	0.49
2:I:4:VAL:HG22	2:I:5:GLN:N	2.27	0.49
2:I:134:VAL:C	2:I:136:SER:N	2.66	0.49
3:C:328:VAL:HG12	3:C:329:TYR:H	1.78	0.49
1:F:376:ASN:O	1:F:380:GLY:N	2.32	0.49
2:G:85:LEU:CA	2:G:245:LEU:HD13	2.43	0.49
3:A:225:PRO:CD	3:A:353:HIS:NE2	2.64	0.49
3:B:164:LEU:CD1	3:B:168:LEU:HD23	2.38	0.49
1:H:271:GLU:HG2	1:H:272:GLY:N	2.28	0.49
2:I:187:SER:O	2:I:188:LEU:C	2.50	0.49
3:C:120:VAL:C	3:C:122:GLN:H	2.16	0.49
3:C:301:GLU:HG2	3:C:302:GLY:N	2.28	0.49
1:F:271:GLU:HG2	1:F:272:GLY:N	2.28	0.49
2:G:255:PRO:O	2:G:259:LEU:CB	2.60	0.49
1:H:264:PHE:O	1:H:267:VAL:N	2.46	0.49
2:I:88:SER:HB3	2:I:227:ILE:CD1	2.42	0.49
3:C:10:THR:CG2	3:C:11:LYS:N	2.74	0.49
3:C:100:LEU:HD13	3:C:110:ILE:HG12	1.94	0.49
3:C:329:TYR:CE2	3:C:343:PHE:HE2	2.31	0.49
3:C:350:GLU:OE2	3:C:351:ARG:N	2.44	0.49
1:F:97:THR:O	1:F:98:ASN:CB	2.61	0.48
1:F:288:SER:OG	1:F:438:PHE:CA	2.60	0.48
1:F:345:GLY:C	1:F:347:ILE:H	2.15	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:126:LEU:CD2	2:G:127:ILE:N	2.77	0.48
2:G:203:PHE:O	2:G:207:LEU:HB3	2.13	0.48
3:A:88:PRO:CA	3:A:131:PRO:HG2	2.42	0.48
3:A:189:TYR:CD2	3:A:190:VAL:O	2.66	0.48
3:A:329:TYR:CE2	3:A:343:PHE:HE2	2.31	0.48
3:B:272:SER:O	3:B:273:ARG:C	2.51	0.48
3:B:297:ASP:O	3:B:299:ILE:N	2.45	0.48
3:B:314:THR:CG2	3:B:315:GLN:N	2.76	0.48
1:H:88:ALA:O	1:H:89:ILE:C	2.49	0.48
2:I:203:PHE:O	2:I:207:LEU:HB3	2.13	0.48
3:D:84:TYR:O	3:D:85:ALA:HB3	2.12	0.48
3:D:256:VAL:O	3:D:265:GLN:HA	2.12	0.48
2:G:110:PHE:HD1	2:G:174:VAL:HG11	1.78	0.48
3:B:351:ARG:NE	3:B:368:GLU:OE1	2.38	0.48
1:H:337:LYS:NZ	2:I:253:LEU:HA	2.28	0.48
1:H:376:ASN:ND2	1:H:379:LEU:HD23	2.28	0.48
3:C:52:LEU:O	3:C:53:GLU:HB2	2.13	0.48
3:C:185:ARG:HG2	3:C:185:ARG:HH11	1.78	0.48
3:D:22:ILE:O	3:D:23:ASN:CG	2.51	0.48
3:D:309:GLN:C	3:D:311:GLY:H	2.17	0.48
3:D:334:VAL:C	3:D:335:VAL:CG2	2.82	0.48
1:F:424:LYS:NZ	1:F:511:MET:CE	2.77	0.48
1:F:438:PHE:CD1	1:F:439:ASN:OD1	2.64	0.48
1:F:501:LEU:CD2	2:G:130:MET:SD	3.01	0.48
3:A:82:GLN:O	3:A:83:SER:O	2.32	0.48
3:A:350:GLU:OE2	3:A:351:ARG:N	2.44	0.48
1:H:91:PHE:O	1:H:263:ASN:CG	2.51	0.48
1:H:303:ALA:HA	1:H:306:VAL:HG23	1.96	0.48
1:H:398:ASP:O	1:H:399:LEU:C	2.49	0.48
1:H:424:LYS:NZ	1:H:511:MET:CE	2.77	0.48
2:I:255:PRO:O	2:I:259:LEU:CB	2.60	0.48
3:C:256:VAL:CG1	3:C:268:LEU:HD21	2.38	0.48
3:D:32:VAL:O	3:D:33:VAL:CG1	2.61	0.48
3:D:169:ARG:NH1	3:D:169:ARG:CB	2.75	0.48
1:F:303:ALA:HA	1:F:306:VAL:HG23	1.96	0.48
1:F:383:TYR:CE2	1:F:387:LEU:HD22	2.49	0.48
2:G:225:ALA:HA	2:G:228:THR:HG22	1.95	0.48
3:A:222:TYR:OH	3:B:312:ASN:CB	2.61	0.48
3:A:236:SER:CB	3:A:237:PRO:CD	2.88	0.48
3:B:85:ALA:O	3:B:146:ARG:NH1	2.46	0.48
3:B:204:ILE:CG2	3:B:205:VAL:N	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:218:PRO:O	3:B:221:LEU:HB2	2.13	0.48
3:B:240:ASN:ND2	3:B:287:PRO:HG3	2.28	0.48
1:H:97:THR:O	1:H:98:ASN:CB	2.61	0.48
1:H:427:THR:O	1:H:431:ILE:HG12	2.13	0.48
2:I:110:PHE:HD1	2:I:174:VAL:HG11	1.78	0.48
3:C:60:LEU:C	3:C:61:PHE:CD1	2.87	0.48
3:C:66:ARG:O	3:C:67:MET:CG	2.50	0.48
3:C:222:TYR:OH	3:D:312:ASN:CB	2.61	0.48
1:F:376:ASN:ND2	1:F:379:LEU:HD23	2.28	0.48
1:F:432:ALA:O	1:F:435:ALA:HB3	2.13	0.48
3:A:73:ALA:HB3	3:A:74:GLU:OE2	2.14	0.48
3:A:100:LEU:HD13	3:A:110:ILE:HG12	1.94	0.48
3:A:256:VAL:HG22	3:A:266:VAL:O	2.13	0.48
3:A:256:VAL:CG1	3:A:268:LEU:HD21	2.38	0.48
3:B:156:LEU:HD22	3:B:188:ILE:HB	1.95	0.48
1:H:401:GLU:O	1:H:404:ALA:HB3	2.13	0.48
1:H:501:LEU:CD2	2:I:130:MET:SD	3.01	0.48
2:I:92:ALA:HA	2:I:226:ALA:HB1	1.96	0.48
2:I:250:GLN:O	2:I:253:LEU:HD13	2.13	0.48
3:D:61:PHE:HB3	3:D:65:LYS:O	2.13	0.48
3:D:297:ASP:O	3:D:299:ILE:N	2.45	0.48
3:D:314:THR:CG2	3:D:315:GLN:N	2.76	0.48
1:F:96:SER:C	1:F:97:THR:HG23	2.34	0.48
3:A:20:LYS:O	3:A:211:ARG:NE	2.46	0.48
3:A:205:VAL:HG12	3:A:207:LEU:HD23	1.95	0.48
3:A:252:ASP:O	3:A:270:VAL:O	2.30	0.48
3:A:342:THR:O	3:A:343:PHE:HB2	2.11	0.48
3:B:11:LYS:HG3	3:B:12:ALA:N	2.27	0.48
3:B:61:PHE:HB3	3:B:65:LYS:O	2.13	0.48
3:B:77:VAL:CG1	3:B:78:GLY:H	2.25	0.48
3:B:156:LEU:O	3:B:157:LEU:HD12	2.12	0.48
1:H:96:SER:C	1:H:97:THR:HG23	2.33	0.48
1:H:471:THR:HG21	2:I:135:LEU:HD22	1.96	0.48
3:C:152:PRO:HD2	3:C:155:PHE:CZ	2.49	0.48
3:C:300:LEU:HD12	3:C:347:LEU:HD23	1.94	0.48
3:C:369:PRO:O	3:C:370:GLY:C	2.52	0.48
3:D:12:ALA:HA	3:D:17:VAL:HA	1.95	0.48
3:D:44:THR:HG22	3:D:48:MET:HE3	1.95	0.48
1:F:330:PHE:HA	1:F:333:ILE:HD11	1.94	0.48
2:G:190:GLU:CD	3:A:52:LEU:HD13	2.34	0.48
3:A:185:ARG:HG2	3:A:185:ARG:HH11	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:191:THR:OG1	3:A:192:HIS:N	2.46	0.48
3:B:89:HIS:CG	3:B:90:LEU:H	2.32	0.48
3:B:240:ASN:O	3:B:241:PHE:CD1	2.67	0.48
3:B:255:GLN:O	3:B:256:VAL:CG1	2.62	0.48
3:B:267:TRP:O	3:B:268:LEU:HD23	2.12	0.48
3:B:334:VAL:C	3:B:335:VAL:CG2	2.82	0.48
3:C:125:HIS:CE1	3:C:126:LEU:HG	2.49	0.48
3:C:174:ILE:O	3:C:178:ARG:HG3	2.14	0.48
3:D:156:LEU:O	3:D:157:LEU:HD12	2.13	0.48
3:D:293:SER:HA	3:D:345:ILE:HA	1.95	0.48
1:F:372:LEU:HD13	1:F:447:LEU:HD12	1.94	0.48
1:F:450:GLY:HA3	1:F:465:ASP:CG	2.34	0.48
2:G:82:LEU:HD21	2:G:269:MET:HE1	1.95	0.48
2:G:250:GLN:O	2:G:253:LEU:HD13	2.13	0.48
3:A:120:VAL:C	3:A:122:GLN:H	2.16	0.48
3:A:123:LEU:HD21	3:A:142:VAL:HG22	1.96	0.48
3:A:174:ILE:O	3:A:178:ARG:HG3	2.14	0.48
3:B:55:ILE:HG21	3:B:68:ASN:OD1	2.12	0.48
1:H:352:SER:HB3	1:H:358:LYS:CB	2.43	0.48
2:I:37:ILE:HG13	2:I:264:ALA:CB	2.44	0.48
3:C:9:VAL:HG12	3:C:10:THR:N	2.29	0.48
3:C:40:CYS:CB	3:C:42:LYS:NZ	2.76	0.48
3:C:82:GLN:O	3:C:83:SER:O	2.32	0.48
3:C:122:GLN:O	3:C:123:LEU:CD1	2.61	0.48
3:C:246:VAL:O	3:C:246:VAL:HG12	2.14	0.48
3:D:61:PHE:N	3:D:61:PHE:CD1	2.82	0.48
3:D:85:ALA:O	3:D:146:ARG:NH1	2.46	0.48
3:D:178:ARG:O	3:D:182:ARG:HB2	2.14	0.48
1:F:41:LEU:HD12	1:F:89:ILE:CD1	2.38	0.48
3:B:266:VAL:HG22	3:B:267:TRP:N	2.28	0.48
3:B:291:LEU:HD23	3:B:292:PRO:HD3	1.96	0.48
3:B:293:SER:HA	3:B:345:ILE:HA	1.95	0.48
1:H:346:GLU:O	1:H:349:MET:HB2	2.14	0.48
1:H:380:GLY:C	1:H:382:PRO:HD2	2.34	0.48
1:H:383:TYR:CE2	1:H:387:LEU:HD22	2.49	0.48
2:I:126:LEU:CD2	2:I:127:ILE:N	2.77	0.48
3:C:28:GLU:CG	3:C:29:GLY:N	2.77	0.48
3:C:132:LYS:O	3:C:134:LEU:N	2.45	0.48
3:C:191:THR:OG1	3:C:192:HIS:N	2.46	0.48
3:C:228:ARG:HD2	3:C:228:ARG:O	2.13	0.48
3:D:38:SER:C	3:D:40:CYS:H	2.15	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:89:HIS:CG	3:D:90:LEU:H	2.32	0.48
3:D:125:HIS:CD2	3:D:126:LEU:HG	2.49	0.48
3:D:240:ASN:O	3:D:241:PHE:CD1	2.67	0.48
3:D:255:GLN:O	3:D:256:VAL:CG1	2.62	0.48
2:G:37:ILE:HG13	2:G:264:ALA:CB	2.44	0.48
2:G:212:VAL:HG22	2:G:215:LEU:CD1	2.42	0.48
3:A:152:PRO:HG2	3:A:153:SER:H	1.79	0.48
3:A:152:PRO:HD2	3:A:155:PHE:CZ	2.49	0.48
3:A:201:ALA:HB1	3:A:203:LYS:O	2.14	0.48
3:A:334:VAL:CG1	3:A:335:VAL:N	2.77	0.48
3:B:232:GLY:HA3	3:B:238:LYS:HE2	1.96	0.48
3:B:349:PRO:HG2	3:B:350:GLU:H	1.79	0.48
1:H:87:ILE:H	1:H:87:ILE:HD12	1.78	0.48
1:H:342:GLN:HE22	1:H:363:SER:H	1.62	0.48
2:I:212:VAL:N	2:I:213:PRO:CD	2.77	0.48
2:I:225:ALA:HA	2:I:228:THR:HG22	1.95	0.48
3:C:46:LEU:O	3:C:49:ILE:HB	2.12	0.48
3:C:189:TYR:CD2	3:C:190:VAL:O	2.66	0.48
3:C:256:VAL:HG22	3:C:266:VAL:O	2.13	0.48
3:D:218:PRO:O	3:D:221:LEU:HB2	2.13	0.48
3:D:298:VAL:HB	3:D:347:LEU:N	2.23	0.48
3:D:350:GLU:CB	3:D:366:HIS:CE1	2.95	0.48
1:F:288:SER:OG	1:F:438:PHE:HA	2.14	0.47
1:F:296:VAL:CG2	1:F:384:MET:SD	3.02	0.47
1:F:333:ILE:HA	1:F:336:PHE:CD1	2.47	0.47
3:A:52:LEU:O	3:A:53:GLU:HB2	2.13	0.47
3:A:122:GLN:O	3:A:123:LEU:CD1	2.61	0.47
3:A:164:LEU:HD13	3:A:168:LEU:CG	2.43	0.47
3:B:96:MET:C	3:B:98:PHE:N	2.67	0.47
3:B:291:LEU:HB3	3:B:292:PRO:HD2	1.96	0.47
3:B:369:PRO:C	3:B:371:VAL:H	2.17	0.47
1:H:357:VAL:CG1	1:H:358:LYS:N	2.64	0.47
1:H:503:ILE:HG22	1:H:507:LYS:HZ2	1.78	0.47
1:H:503:ILE:CG2	1:H:507:LYS:NZ	2.77	0.47
3:C:201:ALA:HB1	3:C:203:LYS:O	2.14	0.47
3:D:271:GLU:O	3:D:272:SER:HB3	2.14	0.47
3:D:306:VAL:CG1	3:D:307:VAL:H	2.25	0.47
3:D:349:PRO:HG2	3:D:350:GLU:H	1.79	0.47
1:F:380:GLY:C	1:F:382:PRO:HD2	2.34	0.47
1:F:471:THR:HG21	2:G:135:LEU:HD22	1.95	0.47
3:A:60:LEU:C	3:A:61:PHE:CD1	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:110:ILE:O	3:A:114:VAL:CG2	2.55	0.47
3:A:125:HIS:CE1	3:A:126:LEU:HG	2.49	0.47
3:A:361:ALA:O	3:A:363:ARG:N	2.47	0.47
3:B:287:PRO:CB	3:B:330:ARG:H	2.27	0.47
1:H:288:SER:OG	1:H:438:PHE:HA	2.14	0.47
2:I:190:GLU:CD	3:C:52:LEU:HD13	2.34	0.47
3:D:291:LEU:HD23	3:D:292:PRO:HD3	1.96	0.47
1:F:342:GLN:HE22	1:F:363:SER:H	1.62	0.47
1:F:372:LEU:HD12	1:F:443:LEU:CG	2.43	0.47
3:A:59:ASP:OD1	3:A:66:ARG:NH2	2.47	0.47
3:A:163:ASN:O	3:A:164:LEU:HG	2.13	0.47
3:B:40:CYS:CB	3:B:42:LYS:HG3	2.45	0.47
3:B:90:LEU:O	3:B:131:PRO:CG	2.62	0.47
3:B:125:HIS:CD2	3:B:126:LEU:HG	2.49	0.47
1:H:96:SER:CB	1:H:481:GLY:HA3	2.44	0.47
1:H:333:ILE:HA	1:H:336:PHE:CD1	2.47	0.47
3:C:97:SER:HA	3:C:100:LEU:HD11	1.96	0.47
3:D:198:MET:HE2	3:D:234:ILE:CG2	2.44	0.47
3:D:291:LEU:HD12	3:D:348:PRO:HG3	1.97	0.47
1:F:44:ILE:O	1:F:47:LEU:HB3	2.14	0.47
2:G:137:LEU:HA	2:G:140:LEU:HB2	1.96	0.47
3:A:180:HIS:O	3:A:184:GLY:HA2	2.14	0.47
3:A:222:TYR:OH	3:A:288:GLU:OE2	2.22	0.47
3:A:243:PRO:C	3:A:244:VAL:CG2	2.83	0.47
3:B:178:ARG:O	3:B:182:ARG:HB2	2.14	0.47
3:B:306:VAL:CG1	3:B:307:VAL:H	2.25	0.47
1:H:438:PHE:CD1	1:H:439:ASN:OD1	2.64	0.47
1:H:483:ASP:O	1:H:485:GLY:N	2.44	0.47
2:I:4:VAL:HG22	2:I:5:GLN:H	1.80	0.47
3:C:310:LEU:O	3:C:310:LEU:CD2	2.63	0.47
3:D:354:LEU:C	3:D:355:PHE:CG	2.88	0.47
1:F:87:ILE:HD12	1:F:87:ILE:H	1.78	0.47
2:G:167:LEU:C	2:G:169:GLY:H	2.18	0.47
3:A:10:THR:CG2	3:A:11:LYS:N	2.74	0.47
3:B:271:GLU:O	3:B:272:SER:HB3	2.14	0.47
3:B:271:GLU:HB2	3:B:363:ARG:HB3	1.94	0.47
1:H:312:ARG:HD2	1:H:313:GLY:N	2.23	0.47
2:I:33:MET:O	2:I:36:ALA:N	2.47	0.47
3:C:73:ALA:HB3	3:C:74:GLU:OE2	2.14	0.47
3:C:243:PRO:C	3:C:244:VAL:CG2	2.83	0.47
3:D:11:LYS:HG3	3:D:12:ALA:N	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:352:SER:HB3	1:F:358:LYS:CB	2.43	0.47
2:G:212:VAL:N	2:G:213:PRO:CD	2.77	0.47
3:A:9:VAL:HG12	3:A:10:THR:N	2.29	0.47
3:A:80:VAL:O	3:A:80:VAL:HG13	2.15	0.47
3:A:310:LEU:O	3:A:310:LEU:CD2	2.62	0.47
3:B:123:LEU:CD1	3:B:141:ARG:NH2	2.77	0.47
3:C:8:ASN:H	3:C:23:ASN:ND2	2.13	0.47
3:C:124:ALA:O	3:C:127:LEU:HD22	2.15	0.47
3:D:28:GLU:CG	3:D:29:GLY:N	2.78	0.47
3:D:192:HIS:O	3:D:194:GLN:N	2.48	0.47
1:F:293:PHE:C	1:F:293:PHE:CD2	2.88	0.47
1:F:337:LYS:NZ	2:G:253:LEU:HA	2.29	0.47
1:F:376:ASN:O	1:F:377:THR:C	2.53	0.47
1:F:498:VAL:HA	1:F:501:LEU:CD1	2.40	0.47
2:G:33:MET:O	2:G:36:ALA:N	2.47	0.47
2:G:229:GLU:CD	2:G:230:VAL:N	2.64	0.47
3:A:6:LEU:HB3	3:A:9:VAL:HG23	1.97	0.47
3:A:40:CYS:CB	3:A:42:LYS:NZ	2.76	0.47
3:A:214:GLN:HB2	3:A:226:ALA:CB	2.45	0.47
3:A:246:VAL:O	3:A:246:VAL:HG12	2.14	0.47
3:A:287:PRO:CG	3:A:328:VAL:HB	2.45	0.47
3:B:7:GLN:NE2	3:B:61:PHE:CE1	2.83	0.47
3:B:79:MET:HA	3:B:147:THR:HG21	1.97	0.47
3:B:190:VAL:HG12	3:B:191:THR:N	2.29	0.47
3:B:276:GLN:NE2	3:B:277:VAL:H	2.13	0.47
3:B:314:THR:CG2	3:B:315:GLN:H	2.27	0.47
1:H:288:SER:HB2	1:H:434:PHE:CE2	2.49	0.47
1:H:450:GLY:HA3	1:H:465:ASP:CG	2.34	0.47
2:I:137:LEU:HA	2:I:140:LEU:HB2	1.96	0.47
2:I:208:LEU:O	2:I:210:LEU:N	2.47	0.47
3:C:40:CYS:CB	3:C:42:LYS:HZ3	2.28	0.47
3:C:59:ASP:OD1	3:C:66:ARG:NH2	2.47	0.47
3:C:152:PRO:HG2	3:C:153:SER:H	1.79	0.47
3:C:287:PRO:CG	3:C:328:VAL:HB	2.45	0.47
3:C:339:GLU:O	3:C:341:ALA:N	2.43	0.47
3:C:357:GLU:C	3:C:359:GLY:N	2.68	0.47
3:C:361:ALA:O	3:C:363:ARG:N	2.47	0.47
3:D:37:PRO:O	3:D:40:CYS:HB3	2.15	0.47
3:D:123:LEU:CD1	3:D:141:ARG:NH2	2.77	0.47
3:D:276:GLN:NE2	3:D:277:VAL:H	2.13	0.47
3:D:291:LEU:HB3	3:D:292:PRO:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:296:VAL:HG12	1:F:297:ALA:N	2.28	0.47
1:F:503:ILE:CG2	1:F:507:LYS:NZ	2.77	0.47
2:G:4:VAL:HG22	2:G:5:GLN:H	1.80	0.47
3:A:97:SER:HA	3:A:100:LEU:HD11	1.96	0.47
3:A:100:LEU:HD21	3:A:149:VAL:HG12	1.97	0.47
3:A:300:LEU:HD12	3:A:347:LEU:HD23	1.94	0.47
3:B:354:LEU:C	3:B:355:PHE:CG	2.88	0.47
1:H:295:THR:HG23	1:H:380:GLY:C	2.35	0.47
1:H:327:VAL:N	2:I:274:ILE:HG21	2.29	0.47
1:H:414:PHE:HE1	1:H:419:LEU:HD12	1.78	0.47
3:C:42:LYS:HD2	3:C:190:VAL:HG13	1.97	0.47
3:C:80:VAL:HG13	3:C:80:VAL:O	2.15	0.47
3:C:123:LEU:HD21	3:C:142:VAL:HG22	1.96	0.47
3:C:356:ARG:HG3	3:C:356:ARG:NH1	2.30	0.47
3:D:79:MET:HA	3:D:147:THR:HG21	1.97	0.47
3:D:124:ALA:O	3:D:127:LEU:HD22	2.15	0.47
1:F:96:SER:CB	1:F:481:GLY:HA3	2.44	0.47
1:F:264:PHE:O	1:F:267:VAL:N	2.46	0.47
2:G:208:LEU:O	2:G:210:LEU:N	2.47	0.47
3:A:20:LYS:HB3	3:A:211:ARG:HD3	1.97	0.47
3:B:28:GLU:CG	3:B:29:GLY:N	2.78	0.47
2:I:148:GLY:CA	2:I:155:GLY:CA	2.89	0.47
3:C:101:LYS:O	3:C:103:ALA:N	2.48	0.47
3:D:156:LEU:HD22	3:D:188:ILE:HB	1.95	0.47
3:D:232:GLY:HA3	3:D:238:LYS:HE2	1.96	0.47
3:D:369:PRO:C	3:D:371:VAL:H	2.17	0.47
3:A:28:GLU:CG	3:A:29:GLY:N	2.77	0.47
3:A:75:ARG:HB3	3:A:77:VAL:HG23	1.97	0.47
3:A:80:VAL:HG11	3:A:160:PRO:HG3	1.97	0.47
3:A:180:HIS:O	3:A:184:GLY:CA	2.63	0.47
3:B:61:PHE:N	3:B:61:PHE:CD1	2.82	0.47
3:B:80:VAL:HG13	3:B:80:VAL:O	2.15	0.47
3:B:89:HIS:CG	3:B:90:LEU:N	2.83	0.47
3:B:91:SER:O	3:B:95:ASN:HB2	2.14	0.47
3:B:124:ALA:O	3:B:127:LEU:HD22	2.15	0.47
1:H:326:ALA:O	2:I:274:ILE:HG23	2.15	0.47
1:H:372:LEU:CD1	1:H:447:LEU:HD12	2.45	0.47
1:H:490:ILE:CG1	2:I:135:LEU:HD23	2.23	0.47
2:I:245:LEU:HG	2:I:249:MET:HE1	1.97	0.47
3:C:143:ALA:O	3:C:144:ILE:C	2.54	0.47
3:C:164:LEU:HD13	3:C:168:LEU:CG	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:89:HIS:CG	3:D:90:LEU:N	2.83	0.47
3:D:169:ARG:HB2	3:D:169:ARG:HH11	1.80	0.47
3:D:289:HIS:CE1	3:D:351:ARG:NH1	2.83	0.47
3:D:313:GLU:CD	3:D:330:ARG:HH21	2.18	0.47
1:F:348:ASN:O	1:F:351:LEU:HB2	2.16	0.46
1:F:358:LYS:O	1:F:358:LYS:CG	2.58	0.46
1:F:383:TYR:CE2	1:F:384:MET:HE1	2.50	0.46
1:F:414:PHE:HE1	1:F:419:LEU:HD12	1.78	0.46
2:G:208:LEU:O	2:G:211:SER:N	2.48	0.46
3:A:42:LYS:HD2	3:A:190:VAL:HG13	1.97	0.46
3:A:366:HIS:O	3:A:366:HIS:CG	2.69	0.46
3:B:273:ARG:HH11	3:B:273:ARG:HG2	1.80	0.46
3:B:354:LEU:CD1	3:B:355:PHE:H	2.28	0.46
1:H:87:ILE:HD12	1:H:87:ILE:N	2.30	0.46
1:H:296:VAL:CG2	1:H:384:MET:SD	3.02	0.46
1:H:376:ASN:O	1:H:377:THR:C	2.53	0.46
2:I:32:LEU:O	2:I:35:VAL:CB	2.60	0.46
2:I:79:PHE:HB2	2:I:252:TYR:OH	2.15	0.46
2:I:82:LEU:HD21	2:I:269:MET:HE1	1.96	0.46
3:C:20:LYS:HB3	3:C:211:ARG:HD3	1.97	0.46
3:C:222:TYR:O	3:C:286:ARG:NH2	2.44	0.46
3:C:236:SER:CB	3:C:237:PRO:CD	2.88	0.46
3:C:239:MET:SD	3:C:241:PHE:CE1	3.08	0.46
3:D:198:MET:CE	3:D:234:ILE:CG2	2.94	0.46
3:D:317:HIS:O	3:D:318:ILE:CG1	2.62	0.46
1:F:372:LEU:CD1	1:F:447:LEU:HD12	2.45	0.46
2:G:79:PHE:HB2	2:G:252:TYR:OH	2.15	0.46
3:A:101:LYS:O	3:A:103:ALA:N	2.47	0.46
3:A:124:ALA:O	3:A:127:LEU:HD22	2.15	0.46
3:A:256:VAL:O	3:A:265:GLN:HA	2.14	0.46
3:B:98:PHE:CE1	3:B:102:LEU:HD11	2.50	0.46
3:B:309:GLN:C	3:B:311:GLY:H	2.17	0.46
3:B:313:GLU:CD	3:B:330:ARG:HH21	2.18	0.46
1:H:374:ILE:CD1	1:H:375:VAL:N	2.76	0.46
1:H:449:ASN:C	1:H:451:GLY:H	2.19	0.46
1:H:501:LEU:HB3	2:I:127:ILE:CG2	2.37	0.46
2:I:167:LEU:C	2:I:169:GLY:H	2.18	0.46
2:I:255:PRO:O	2:I:259:LEU:CG	2.63	0.46
3:C:80:VAL:HG11	3:C:160:PRO:HG3	1.97	0.46
3:C:214:GLN:HB2	3:C:226:ALA:CB	2.45	0.46
3:D:40:CYS:CB	3:D:42:LYS:HG3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:191:THR:O	3:D:192:HIS:CG	2.68	0.46
1:F:288:SER:HB2	1:F:434:PHE:CE2	2.49	0.46
1:F:346:GLU:O	1:F:349:MET:HB2	2.14	0.46
3:A:8:ASN:H	3:A:23:ASN:ND2	2.13	0.46
3:B:166:ALA:O	3:B:170:VAL:HG23	2.15	0.46
3:B:291:LEU:HD12	3:B:348:PRO:HG3	1.96	0.46
3:B:313:GLU:OE1	3:B:330:ARG:NH2	2.47	0.46
1:H:293:PHE:CD2	1:H:293:PHE:C	2.88	0.46
1:H:348:ASN:O	1:H:351:LEU:HB2	2.16	0.46
3:C:180:HIS:O	3:C:184:GLY:CA	2.63	0.46
3:C:256:VAL:O	3:C:265:GLN:HA	2.14	0.46
3:D:12:ALA:HA	3:D:16:VAL:O	2.15	0.46
3:D:98:PHE:CE1	3:D:102:LEU:HD11	2.50	0.46
3:D:155:PHE:HD1	3:D:155:PHE:H	1.64	0.46
1:F:465:ASP:OD2	1:F:473:ARG:NH2	2.48	0.46
2:G:93:GLY:CA	2:G:223:PHE:HE1	2.21	0.46
2:G:255:PRO:O	2:G:259:LEU:CG	2.63	0.46
3:A:96:MET:CE	3:A:142:VAL:O	2.62	0.46
3:A:369:PRO:O	3:A:370:GLY:C	2.52	0.46
3:B:157:LEU:HB3	3:B:160:PRO:CD	2.46	0.46
1:H:368:ALA:O	1:H:371:MET:CB	2.64	0.46
1:H:376:ASN:O	1:H:380:GLY:N	2.32	0.46
3:C:44:THR:HG22	3:C:48:MET:HE3	1.97	0.46
3:C:52:LEU:HD23	3:C:72:PRO:HG2	1.97	0.46
3:C:254:VAL:HG21	3:C:270:VAL:HG12	1.98	0.46
3:D:7:GLN:NE2	3:D:61:PHE:CE1	2.83	0.46
3:D:83:SER:O	3:D:84:TYR:CD1	2.68	0.46
3:D:90:LEU:O	3:D:131:PRO:CG	2.62	0.46
1:F:304:CYS:SG	1:F:305:LEU:HD23	2.56	0.46
3:A:239:MET:SD	3:A:241:PHE:CE1	3.08	0.46
3:A:368:GLU:HG2	3:A:369:PRO:CD	2.32	0.46
3:B:118:ALA:HB1	3:B:123:LEU:O	2.16	0.46
3:B:180:HIS:HA	3:B:187:MET:HE3	1.96	0.46
3:B:243:PRO:CB	3:B:259:PRO:HG3	2.31	0.46
3:B:289:HIS:CE1	3:B:351:ARG:NH1	2.83	0.46
3:C:96:MET:CE	3:C:142:VAL:O	2.62	0.46
3:C:100:LEU:HD21	3:C:149:VAL:HG12	1.97	0.46
3:C:219:LEU:O	3:C:220:GLU:C	2.54	0.46
3:C:320:ILE:HG23	3:C:321:PRO:HD2	1.97	0.46
3:D:11:LYS:CG	3:D:12:ALA:N	2.79	0.46
3:D:49:ILE:O	3:D:75:ARG:NH1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:91:SER:O	3:D:95:ASN:HB2	2.14	0.46
3:D:157:LEU:HB3	3:D:160:PRO:CD	2.46	0.46
3:D:186:THR:C	3:D:187:MET:HG3	2.35	0.46
3:D:273:ARG:HG2	3:D:273:ARG:HH11	1.80	0.46
3:D:314:THR:CG2	3:D:315:GLN:H	2.27	0.46
3:D:315:GLN:HG2	3:D:330:ARG:HG2	1.98	0.46
3:D:323:ILE:HG23	3:D:325:GLN:O	2.15	0.46
1:F:295:THR:HG23	1:F:380:GLY:C	2.35	0.46
1:F:330:PHE:O	1:F:333:ILE:CD1	2.63	0.46
1:F:497:LEU:HD23	1:F:501:LEU:HG	1.97	0.46
2:G:252:TYR:N	2:G:252:TYR:HD1	2.13	0.46
3:A:356:ARG:HG3	3:A:356:ARG:NH1	2.30	0.46
3:B:186:THR:C	3:B:187:MET:HG3	2.35	0.46
3:B:191:THR:O	3:B:192:HIS:CG	2.68	0.46
3:B:366:HIS:O	3:B:368:GLU:N	2.48	0.46
1:H:44:ILE:O	1:H:47:LEU:HB3	2.14	0.46
1:H:308:TRP:HD1	1:H:310:ALA:HB3	1.81	0.46
1:H:471:THR:HG22	2:I:135:LEU:CD1	2.46	0.46
3:C:6:LEU:HB3	3:C:9:VAL:CG2	2.46	0.46
3:C:180:HIS:O	3:C:184:GLY:HA2	2.14	0.46
3:D:206:VAL:HG21	3:D:230:VAL:HG13	1.96	0.46
3:D:294:ASP:OD2	3:D:295:ILE:HG13	2.15	0.46
1:F:87:ILE:HD12	1:F:87:ILE:N	2.30	0.46
1:F:327:VAL:N	2:G:274:ILE:HG21	2.29	0.46
1:F:471:THR:HG22	2:G:135:LEU:CD1	2.46	0.46
3:A:24:LEU:HD13	3:A:26:ILE:HD11	1.97	0.46
3:A:155:PHE:HB2	3:A:187:MET:HG2	1.98	0.46
3:A:161:LEU:HD12	3:A:189:TYR:OH	2.16	0.46
3:B:349:PRO:O	3:B:352:CYS:CB	2.55	0.46
1:H:304:CYS:SG	1:H:305:LEU:HD23	2.56	0.46
1:H:374:ILE:C	1:H:374:ILE:CD1	2.82	0.46
2:I:114:ARG:O	2:I:115:PHE:HB3	2.16	0.46
3:C:24:LEU:HD13	3:C:26:ILE:HD11	1.97	0.46
3:C:97:SER:O	3:C:100:LEU:HD12	2.16	0.46
3:C:272:SER:O	3:C:275:VAL:HB	2.16	0.46
3:D:155:PHE:O	3:D:157:LEU:HD12	2.15	0.46
3:D:190:VAL:HG12	3:D:191:THR:N	2.29	0.46
1:F:292:VAL:HG21	1:F:434:PHE:HB2	1.97	0.46
1:F:368:ALA:O	1:F:371:MET:CB	2.64	0.46
1:F:497:LEU:HD13	2:G:132:PRO:CD	2.31	0.46
2:G:148:GLY:CA	2:G:155:GLY:CA	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:272:SER:O	3:A:275:VAL:HB	2.16	0.46
3:B:11:LYS:CG	3:B:12:ALA:N	2.79	0.46
3:B:37:PRO:O	3:B:40:CYS:HB3	2.15	0.46
1:H:267:VAL:HG13	1:H:488:ALA:CA	2.42	0.46
1:H:292:VAL:HG21	1:H:434:PHE:HB2	1.97	0.46
1:H:437:ASN:O	1:H:440:ASN:HB2	2.16	0.46
2:I:159:HIS:NE2	2:I:242:SER:HB2	2.31	0.46
2:I:172:LEU:CD2	2:I:173:HIS:N	2.73	0.46
3:C:266:VAL:O	3:C:268:LEU:HD23	2.16	0.46
3:C:368:GLU:HG2	3:C:369:PRO:CD	2.32	0.46
3:D:306:VAL:CG1	3:D:307:VAL:N	2.78	0.46
1:F:267:VAL:HG13	1:F:488:ALA:CA	2.42	0.46
1:F:308:TRP:CD1	1:F:310:ALA:HB3	2.51	0.46
1:F:425:PRO:O	1:F:428:PRO:HD2	2.16	0.46
3:A:6:LEU:HB3	3:A:9:VAL:CG2	2.46	0.46
3:A:250:ALA:O	3:A:272:SER:OG	2.25	0.46
3:B:155:PHE:O	3:B:157:LEU:HD12	2.15	0.46
3:B:192:HIS:O	3:B:194:GLN:N	2.48	0.46
3:B:206:VAL:HG21	3:B:230:VAL:HG13	1.96	0.46
2:I:260:TRP:O	2:I:263:PHE:HB3	2.16	0.46
3:C:301:GLU:CA	3:C:344:ALA:HB2	2.35	0.46
3:C:366:HIS:CG	3:C:366:HIS:O	2.69	0.46
3:D:304:VAL:HG13	3:D:316:ILE:CG2	2.46	0.46
1:F:88:ALA:O	1:F:90:ALA:N	2.49	0.46
1:F:454:ARG:HG3	1:F:462:GLY:C	2.37	0.46
2:G:31:LEU:H	2:G:31:LEU:CD2	2.01	0.46
3:A:6:LEU:CD2	3:A:9:VAL:HG21	2.45	0.46
3:A:120:VAL:CG2	3:A:121:LEU:N	2.79	0.46
3:A:320:ILE:HG23	3:A:321:PRO:HD2	1.97	0.46
3:B:83:SER:O	3:B:84:TYR:CD1	2.68	0.46
3:B:214:GLN:CG	3:B:215:VAL:H	2.29	0.46
3:B:294:ASP:OD2	3:B:295:ILE:HG13	2.15	0.46
1:H:88:ALA:O	1:H:90:ALA:N	2.49	0.46
1:H:317:TYR:HE2	2:I:20:LEU:CG	2.22	0.46
1:H:330:PHE:CG	1:H:331:ILE:N	2.83	0.46
2:I:18:LEU:CD2	2:I:19:LEU:N	2.77	0.46
2:I:251:GLN:O	2:I:253:LEU:N	2.40	0.46
3:C:75:ARG:HB3	3:C:77:VAL:HG23	1.97	0.46
1:F:324:PRO:HA	1:F:378:TRP:CH2	2.51	0.45
1:F:326:ALA:O	2:G:274:ILE:HG23	2.15	0.45
1:F:449:ASN:C	1:F:451:GLY:H	2.19	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:114:ARG:O	2:G:115:PHE:HB3	2.16	0.45
2:G:211:SER:C	2:G:213:PRO:HD2	2.36	0.45
3:A:97:SER:O	3:A:100:LEU:HD12	2.16	0.45
3:A:106:LYS:O	3:A:110:ILE:HG13	2.16	0.45
3:A:352:CYS:O	3:A:364:ARG:HD2	2.16	0.45
3:A:368:GLU:CB	3:A:369:PRO:HD2	2.46	0.45
3:B:342:THR:OG1	3:B:343:PHE:N	2.50	0.45
2:I:208:LEU:O	2:I:211:SER:N	2.48	0.45
3:C:120:VAL:CG2	3:C:121:LEU:N	2.79	0.45
3:C:161:LEU:HD12	3:C:189:TYR:OH	2.16	0.45
3:C:199:THR:OG1	3:C:200:LEU:N	2.49	0.45
3:C:214:GLN:NE2	3:C:226:ALA:HB2	2.31	0.45
3:D:96:MET:HG3	3:D:142:VAL:HG12	1.98	0.45
3:D:155:PHE:HB2	3:D:187:MET:HG2	1.98	0.45
3:D:244:VAL:O	3:D:245:LYS:HG2	2.16	0.45
3:D:366:HIS:O	3:D:368:GLU:N	2.48	0.45
1:F:280:ILE:HG13	1:F:467:LEU:HD22	1.98	0.45
2:G:159:HIS:NE2	2:G:242:SER:HB2	2.31	0.45
3:A:34:PHE:C	3:A:35:VAL:CG1	2.84	0.45
3:A:169:ARG:HB2	3:A:169:ARG:CZ	2.46	0.45
3:B:12:ALA:HA	3:B:16:VAL:O	2.15	0.45
3:B:309:GLN:O	3:B:311:GLY:N	2.39	0.45
3:B:323:ILE:HG23	3:B:325:GLN:O	2.15	0.45
3:B:355:PHE:N	3:B:355:PHE:CD1	2.85	0.45
1:H:454:ARG:HG3	1:H:462:GLY:C	2.37	0.45
2:I:194:LEU:CA	3:C:73:ALA:HB2	2.41	0.45
3:C:45:LEU:O	3:C:46:LEU:C	2.54	0.45
3:C:189:TYR:HD2	3:C:190:VAL:O	1.99	0.45
3:C:302:GLY:HA2	3:C:321:PRO:HD3	1.97	0.45
3:C:354:LEU:C	3:C:355:PHE:CG	2.89	0.45
3:D:24:LEU:CD1	3:D:26:ILE:HD11	2.47	0.45
3:D:42:LYS:CE	3:D:190:VAL:HG13	2.47	0.45
3:D:51:GLY:O	3:D:53:GLU:N	2.39	0.45
3:D:62:ILE:CD1	3:D:75:ARG:HB3	2.47	0.45
3:D:96:MET:CE	3:D:114:VAL:HG13	2.46	0.45
1:F:437:ASN:O	1:F:440:ASN:HB2	2.16	0.45
3:A:49:ILE:O	3:A:75:ARG:NH1	2.49	0.45
3:A:143:ALA:O	3:A:144:ILE:C	2.54	0.45
3:A:224:TYR:HE2	3:A:371:VAL:CG1	2.30	0.45
3:A:266:VAL:O	3:A:268:LEU:HD23	2.16	0.45
3:B:315:GLN:HG2	3:B:330:ARG:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:372:ALA:O	3:B:373:SER:HB2	2.17	0.45
1:H:76:GLY:O	1:H:80:LEU:HB2	2.17	0.45
1:H:308:TRP:CD1	1:H:310:ALA:HB3	2.51	0.45
3:C:34:PHE:C	3:C:35:VAL:CG1	2.84	0.45
3:C:57:SER:OG	3:C:58:GLY:N	2.50	0.45
3:C:344:ALA:O	3:C:345:ILE:CG2	2.63	0.45
3:D:80:VAL:O	3:D:80:VAL:HG13	2.15	0.45
3:D:166:ALA:O	3:D:170:VAL:HG23	2.15	0.45
3:D:214:GLN:CG	3:D:215:VAL:H	2.29	0.45
1:F:76:GLY:O	1:F:80:LEU:HB2	2.17	0.45
1:F:308:TRP:HD1	1:F:310:ALA:HB3	1.81	0.45
1:F:335:ILE:HD12	1:F:339:LEU:CD1	2.40	0.45
3:A:348:PRO:HA	3:A:349:PRO:HD2	1.88	0.45
3:B:311:GLY:C	3:B:313:GLU:N	2.65	0.45
1:H:280:ILE:HG13	1:H:467:LEU:HD22	1.98	0.45
1:H:333:ILE:CA	1:H:336:PHE:HB2	2.46	0.45
1:H:497:LEU:CD2	2:I:131:PHE:HD2	2.28	0.45
3:C:6:LEU:CD2	3:C:9:VAL:HG21	2.45	0.45
3:C:10:THR:CG2	3:C:11:LYS:H	2.26	0.45
3:C:169:ARG:HB2	3:C:169:ARG:CZ	2.46	0.45
3:C:186:THR:CG2	3:C:187:MET:N	2.79	0.45
3:D:91:SER:HB2	3:D:129:ARG:O	2.16	0.45
1:F:348:ASN:HA	1:F:351:LEU:HD22	1.99	0.45
1:F:374:ILE:CD1	1:F:375:VAL:N	2.76	0.45
3:A:215:VAL:HG12	3:A:216:GLY:N	2.31	0.45
3:A:302:GLY:HA2	3:A:321:PRO:HD3	1.97	0.45
3:A:335:VAL:O	3:A:337:VAL:HG23	2.17	0.45
3:A:354:LEU:O	3:A:355:PHE:CG	2.70	0.45
3:B:62:ILE:CD1	3:B:75:ARG:HB3	2.46	0.45
1:H:330:PHE:O	1:H:333:ILE:CD1	2.63	0.45
1:H:425:PRO:O	1:H:428:PRO:HD2	2.16	0.45
2:I:19:LEU:HA	2:I:22:LEU:HD23	1.98	0.45
2:I:191:ALA:O	2:I:194:LEU:CB	2.65	0.45
3:C:6:LEU:HB3	3:C:9:VAL:HG23	1.97	0.45
3:C:155:PHE:HB2	3:C:187:MET:HG2	1.98	0.45
3:C:215:VAL:HG12	3:C:216:GLY:N	2.31	0.45
3:D:159:GLU:HG2	3:D:191:THR:HA	1.98	0.45
1:F:99:GLN:HG3	1:F:100:LEU:HD23	1.98	0.45
2:G:92:ALA:HA	2:G:226:ALA:HB1	1.96	0.45
3:A:109:VAL:O	3:A:113:ARG:HG2	2.17	0.45
3:A:123:LEU:CD1	3:A:141:ARG:NH2	2.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:155:PHE:H	3:B:155:PHE:HD1	1.64	0.45
3:B:270:VAL:HG12	3:B:271:GLU:H	1.80	0.45
3:D:301:GLU:HA	3:D:344:ALA:HB1	1.92	0.45
1:F:428:PRO:HG2	1:F:429:LEU:H	1.82	0.45
2:G:19:LEU:HA	2:G:22:LEU:HD23	1.98	0.45
2:G:32:LEU:O	2:G:35:VAL:CB	2.60	0.45
2:G:37:ILE:O	2:G:38:SER:HB2	2.16	0.45
2:G:260:TRP:O	2:G:263:PHE:HB3	2.16	0.45
2:G:264:ALA:O	2:G:267:ALA:HB3	2.16	0.45
3:A:57:SER:OG	3:A:58:GLY:N	2.50	0.45
3:A:254:VAL:HG21	3:A:270:VAL:HG12	1.98	0.45
3:B:62:ILE:HD12	3:B:75:ARG:HB3	1.99	0.45
3:B:66:ARG:HG2	3:B:66:ARG:O	2.17	0.45
3:B:96:MET:HG3	3:B:142:VAL:HG12	1.98	0.45
3:B:193:ASP:C	3:B:195:VAL:N	2.69	0.45
3:B:312:ASN:O	3:B:313:GLU:HB3	2.17	0.45
3:B:317:HIS:O	3:B:318:ILE:CG1	2.62	0.45
1:H:322:ILE:HG21	2:I:278:PHE:CZ	2.52	0.45
1:H:324:PRO:HA	1:H:378:TRP:CH2	2.51	0.45
3:C:49:ILE:O	3:C:75:ARG:NH1	2.49	0.45
3:C:106:LYS:O	3:C:110:ILE:HG13	2.16	0.45
3:C:155:PHE:O	3:C:157:LEU:CD1	2.65	0.45
3:D:27:HIS:ND1	3:D:27:HIS:N	2.63	0.45
3:D:320:ILE:CG2	3:D:321:PRO:HD2	2.35	0.45
1:F:330:PHE:CG	1:F:331:ILE:N	2.83	0.45
1:F:505:ASN:HB2	2:G:127:ILE:HD11	1.99	0.45
3:A:121:LEU:HD11	3:A:148:LEU:CD1	2.47	0.45
3:A:155:PHE:O	3:A:157:LEU:CD1	2.65	0.45
3:A:222:TYR:O	3:A:286:ARG:NH2	2.44	0.45
3:B:42:LYS:HE2	3:B:190:VAL:HG11	1.98	0.45
3:B:96:MET:CE	3:B:114:VAL:HG13	2.46	0.45
3:B:198:MET:CE	3:B:234:ILE:CG2	2.94	0.45
1:H:41:LEU:HD12	1:H:89:ILE:CD1	2.38	0.45
2:I:37:ILE:O	2:I:38:SER:HB2	2.16	0.45
2:I:264:ALA:O	2:I:267:ALA:HB3	2.16	0.45
3:C:109:VAL:O	3:C:113:ARG:HG2	2.17	0.45
3:C:352:CYS:O	3:C:364:ARG:HD2	2.16	0.45
3:D:2:ALA:O	3:D:4:VAL:N	2.48	0.45
3:D:45:LEU:HD11	3:D:207:LEU:HD11	1.98	0.45
3:D:66:ARG:HG2	3:D:66:ARG:O	2.17	0.45
3:D:118:ALA:HB1	3:D:123:LEU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:169:ARG:HB2	3:D:169:ARG:CZ	2.47	0.45
3:D:362:CYS:O	3:D:363:ARG:C	2.55	0.45
1:F:305:LEU:HD13	2:G:16:THR:HG23	1.99	0.45
2:G:110:PHE:CD1	2:G:174:VAL:HG11	2.52	0.45
3:A:52:LEU:HD23	3:A:72:PRO:HG2	1.97	0.45
3:A:186:THR:CG2	3:A:187:MET:N	2.79	0.45
3:A:214:GLN:NE2	3:A:226:ALA:HB2	2.31	0.45
3:B:36:GLY:HA2	3:B:233:PHE:CE2	2.52	0.45
3:B:91:SER:HB2	3:B:129:ARG:O	2.16	0.45
3:B:244:VAL:O	3:B:245:LYS:HG2	2.16	0.45
1:H:93:ASN:OD1	1:H:98:ASN:ND2	2.50	0.45
1:H:308:TRP:CZ2	1:H:410:PRO:HB3	2.52	0.45
1:H:503:ILE:CG2	1:H:507:LYS:HZ1	2.28	0.45
2:I:110:PHE:CD1	2:I:174:VAL:HG11	2.52	0.45
3:C:254:VAL:CG2	3:C:270:VAL:HG12	2.47	0.45
3:D:36:GLY:HA2	3:D:233:PHE:CE2	2.52	0.45
3:D:123:LEU:HG	3:D:126:LEU:HD12	1.99	0.45
3:D:276:GLN:HG3	3:D:277:VAL:N	2.32	0.45
1:F:322:ILE:HG21	2:G:278:PHE:CZ	2.52	0.45
1:F:322:ILE:HG22	1:F:323:LEU:N	2.32	0.45
1:F:433:SER:O	1:F:436:PHE:HB3	2.17	0.45
2:G:84:TRP:HB2	2:G:245:LEU:HD12	1.98	0.45
3:A:31:PHE:N	3:A:202:ASP:OD2	2.50	0.45
3:A:199:THR:OG1	3:A:200:LEU:N	2.49	0.45
3:A:232:GLY:O	3:A:238:LYS:HG3	2.17	0.45
3:B:24:LEU:CD1	3:B:26:ILE:HD11	2.47	0.45
3:B:169:ARG:NH1	3:B:169:ARG:CB	2.75	0.45
3:B:304:VAL:HG13	3:B:316:ILE:CG2	2.46	0.45
1:H:100:LEU:O	1:H:101:THR:HG23	2.17	0.45
1:H:284:THR:O	1:H:287:PHE:HB3	2.17	0.45
1:H:348:ASN:HA	1:H:351:LEU:HD22	1.98	0.45
1:H:424:LYS:HZ1	1:H:511:MET:CE	2.30	0.45
1:H:439:ASN:ND2	2:I:132:PRO:CB	2.80	0.45
2:I:139:ALA:O	2:I:142:ALA:HB3	2.17	0.45
2:I:208:LEU:C	2:I:210:LEU:N	2.69	0.45
3:C:46:LEU:HD13	3:C:190:VAL:CG2	2.47	0.45
3:C:121:LEU:HD11	3:C:148:LEU:CD1	2.47	0.45
3:D:31:PHE:HB3	3:D:202:ASP:OD2	2.17	0.45
3:D:266:VAL:HG22	3:D:267:TRP:N	2.28	0.45
3:D:349:PRO:HD2	3:D:350:GLU:OE1	2.17	0.45
1:F:310:ALA:O	1:F:312:ARG:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:348:ASN:HD21	1:F:361:TRP:HD1	1.65	0.44
2:G:94:ILE:CD1	2:G:163:ILE:HG21	2.47	0.44
2:G:126:LEU:HD23	2:G:126:LEU:C	2.38	0.44
3:A:45:LEU:O	3:A:46:LEU:C	2.54	0.44
3:B:27:HIS:ND1	3:B:27:HIS:N	2.63	0.44
3:B:31:PHE:HB3	3:B:202:ASP:OD2	2.17	0.44
3:B:155:PHE:HB2	3:B:187:MET:HG2	1.98	0.44
3:B:169:ARG:HB2	3:B:169:ARG:CZ	2.47	0.44
3:B:320:ILE:CG2	3:B:321:PRO:HD2	2.35	0.44
3:B:362:CYS:O	3:B:363:ARG:C	2.55	0.44
1:H:99:GLN:HG3	1:H:100:LEU:HD23	1.99	0.44
3:C:335:VAL:O	3:C:337:VAL:HG23	2.17	0.44
3:D:270:VAL:HG12	3:D:271:GLU:H	1.80	0.44
3:D:372:ALA:O	3:D:373:SER:HB2	2.17	0.44
2:G:88:SER:HB3	2:G:227:ILE:HD11	1.99	0.44
3:A:354:LEU:C	3:A:355:PHE:CG	2.89	0.44
3:B:12:ALA:HB2	3:B:17:VAL:HA	2.00	0.44
3:B:42:LYS:CE	3:B:190:VAL:HG13	2.47	0.44
3:B:44:THR:HG22	3:B:48:MET:HE2	1.97	0.44
3:B:60:LEU:HD12	3:B:61:PHE:H	1.79	0.44
3:B:334:VAL:C	3:B:335:VAL:HG23	2.38	0.44
1:H:90:ALA:HA	1:H:490:ILE:HD12	1.99	0.44
1:H:346:GLU:HA	1:H:349:MET:CG	2.32	0.44
1:H:497:LEU:HD23	1:H:501:LEU:HG	1.98	0.44
1:H:497:LEU:CD1	2:I:132:PRO:HD3	2.31	0.44
2:I:229:GLU:CG	2:I:230:VAL:N	2.80	0.44
3:C:368:GLU:CB	3:C:369:PRO:HD2	2.46	0.44
3:D:62:ILE:HD12	3:D:75:ARG:HB3	1.99	0.44
1:F:497:LEU:CD2	2:G:131:PHE:HD2	2.28	0.44
2:G:6:PRO:O	2:G:8:SER:N	2.51	0.44
2:G:181:PHE:HZ	2:G:203:PHE:CE2	2.35	0.44
3:A:10:THR:CG2	3:A:11:LYS:H	2.26	0.44
3:A:50:ALA:O	3:A:75:ARG:CZ	2.66	0.44
3:A:219:LEU:O	3:A:220:GLU:C	2.54	0.44
1:H:284:THR:CB	1:H:467:LEU:HD23	2.47	0.44
1:H:310:ALA:O	1:H:312:ARG:N	2.50	0.44
1:H:331:ILE:HD13	1:H:331:ILE:O	2.17	0.44
1:H:383:TYR:CE2	1:H:384:MET:HE1	2.53	0.44
2:I:18:LEU:O	2:I:22:LEU:HD23	2.18	0.44
2:I:88:SER:HB3	2:I:227:ILE:HD11	1.99	0.44
3:C:232:GLY:O	3:C:238:LYS:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:83:SER:C	3:D:84:TYR:CG	2.91	0.44
3:D:162:SER:OG	3:D:163:ASN:N	2.50	0.44
3:D:283:LEU:HD12	3:D:353:HIS:O	2.17	0.44
3:D:334:VAL:C	3:D:335:VAL:HG23	2.38	0.44
1:F:73:ALA:O	1:F:77:LEU:HB2	2.17	0.44
1:F:341:ASN:HB3	1:F:344:PHE:C	2.38	0.44
2:G:191:ALA:O	2:G:194:LEU:CB	2.65	0.44
3:A:24:LEU:CD1	3:A:26:ILE:HD11	2.48	0.44
3:A:46:LEU:HD13	3:A:190:VAL:CG2	2.47	0.44
3:A:217:LYS:HB3	3:A:218:PRO:CD	2.48	0.44
1:H:404:ALA:HB1	2:I:3:MET:HE3	1.98	0.44
1:H:428:PRO:HG2	1:H:429:LEU:H	1.82	0.44
2:I:94:ILE:CD1	2:I:163:ILE:HG21	2.47	0.44
2:I:211:SER:C	2:I:213:PRO:HD2	2.36	0.44
3:C:50:ALA:O	3:C:75:ARG:CZ	2.66	0.44
3:D:123:LEU:CD1	3:D:141:ARG:HH21	2.31	0.44
3:D:351:ARG:NE	3:D:368:GLU:OE1	2.38	0.44
3:D:368:GLU:OE1	3:D:369:PRO:HD2	2.17	0.44
1:F:322:ILE:CG2	2:G:278:PHE:CE1	3.00	0.44
1:F:357:VAL:HG11	1:F:359:PRO:HG3	1.99	0.44
1:F:439:ASN:ND2	2:G:132:PRO:CB	2.80	0.44
2:G:18:LEU:O	2:G:22:LEU:HD23	2.18	0.44
2:G:208:LEU:C	2:G:210:LEU:N	2.69	0.44
3:A:189:TYR:HD2	3:A:190:VAL:O	1.99	0.44
3:B:276:GLN:HG3	3:B:277:VAL:N	2.32	0.44
3:B:327:LEU:HD12	3:B:327:LEU:HA	1.83	0.44
3:B:349:PRO:HD2	3:B:350:GLU:OE1	2.17	0.44
3:B:368:GLU:OE1	3:B:369:PRO:HD2	2.17	0.44
1:H:305:LEU:HD13	2:I:16:THR:HG23	1.99	0.44
1:H:341:ASN:HB3	1:H:344:PHE:CB	2.48	0.44
1:H:433:SER:O	1:H:436:PHE:HB3	2.17	0.44
2:I:229:GLU:CD	2:I:230:VAL:N	2.64	0.44
2:I:245:LEU:HA	2:I:245:LEU:HD12	1.79	0.44
3:C:31:PHE:N	3:C:202:ASP:OD2	2.50	0.44
3:C:299:ILE:CG2	3:C:300:LEU:H	2.26	0.44
2:G:18:LEU:CD2	2:G:19:LEU:N	2.77	0.44
2:G:221:LEU:O	2:G:224:ILE:HG13	2.18	0.44
3:A:179:LEU:O	3:A:182:ARG:HB3	2.18	0.44
3:A:254:VAL:CG2	3:A:270:VAL:HG12	2.47	0.44
3:B:4:VAL:CG2	3:B:5:GLN:H	2.31	0.44
3:B:159:GLU:HG2	3:B:191:THR:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:301:GLU:HA	3:B:344:ALA:HB1	1.92	0.44
1:H:89:ILE:O	1:H:90:ALA:C	2.56	0.44
1:H:90:ALA:O	1:H:487:ALA:HB2	2.17	0.44
1:H:267:VAL:CA	1:H:488:ALA:HB2	2.38	0.44
1:H:276:PRO:HG2	1:H:277:PHE:H	1.83	0.44
1:H:303:ALA:HA	1:H:385:MET:CE	2.39	0.44
1:H:375:VAL:HG12	1:H:376:ASN:N	2.33	0.44
2:I:6:PRO:O	2:I:8:SER:N	2.51	0.44
2:I:221:LEU:O	2:I:224:ILE:HG13	2.18	0.44
3:C:87:TYR:HB2	3:C:95:ASN:ND2	2.33	0.44
3:C:217:LYS:HB3	3:C:218:PRO:CD	2.48	0.44
3:C:354:LEU:O	3:C:355:PHE:CG	2.70	0.44
3:D:42:LYS:HE2	3:D:190:VAL:HG11	1.98	0.44
3:D:194:GLN:H	3:D:194:GLN:NE2	2.16	0.44
3:D:273:ARG:HG2	3:D:273:ARG:NH1	2.33	0.44
3:D:312:ASN:O	3:D:313:GLU:HB3	2.17	0.44
3:D:346:GLY:O	3:D:348:PRO:HD2	2.18	0.44
1:F:284:THR:O	1:F:287:PHE:HB3	2.17	0.44
2:G:27:ILE:O	2:G:28:MET:HG2	2.18	0.44
2:G:82:LEU:CD2	2:G:269:MET:HE1	2.47	0.44
2:G:139:ALA:O	2:G:142:ALA:HB3	2.17	0.44
2:G:244:THR:H	2:G:247:VAL:CG2	2.31	0.44
3:A:125:HIS:C	3:A:127:LEU:H	2.21	0.44
3:A:204:ILE:HD12	3:A:221:LEU:CD1	2.48	0.44
3:A:283:LEU:HG	3:A:283:LEU:O	2.17	0.44
3:B:123:LEU:HG	3:B:126:LEU:HD12	1.99	0.44
3:B:273:ARG:HG2	3:B:273:ARG:NH1	2.33	0.44
3:B:307:VAL:CG1	3:B:309:GLN:NE2	2.77	0.44
1:H:92:THR:HG23	1:H:93:ASN:N	2.19	0.44
1:H:376:ASN:HA	1:H:379:LEU:HB3	1.99	0.44
1:H:413:ASN:O	1:H:417:ILE:HB	2.17	0.44
1:H:505:ASN:HB2	2:I:127:ILE:HD11	1.99	0.44
2:I:27:ILE:O	2:I:28:MET:HG2	2.18	0.44
3:C:47:ARG:O	3:C:48:MET:C	2.56	0.44
3:C:285:ILE:CG1	3:C:286:ARG:N	2.81	0.44
3:D:260:MET:CE	3:D:320:ILE:HG21	2.48	0.44
3:D:274:ASP:O	3:D:275:VAL:HG13	2.18	0.44
1:F:100:LEU:O	1:F:101:THR:HG23	2.17	0.44
1:F:413:ASN:O	1:F:417:ILE:HB	2.17	0.44
2:G:24:ILE:CG1	2:G:25:ALA:N	2.81	0.44
3:B:162:SER:OG	3:B:163:ASN:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:120:THR:HG23	2:I:121:LEU:N	2.33	0.44
2:I:252:TYR:N	2:I:252:TYR:HD1	2.14	0.44
3:D:100:LEU:HD13	3:D:110:ILE:CD1	2.48	0.44
3:D:342:THR:OG1	3:D:343:PHE:N	2.50	0.44
1:F:331:ILE:HD13	1:F:331:ILE:O	2.17	0.44
1:F:375:VAL:HG12	1:F:376:ASN:N	2.32	0.44
1:F:376:ASN:HA	1:F:379:LEU:HB3	1.99	0.44
2:G:102:LEU:HD23	2:G:102:LEU:N	2.33	0.44
2:G:120:THR:HG23	2:G:121:LEU:N	2.33	0.44
3:B:45:LEU:HD11	3:B:207:LEU:HD11	1.98	0.44
3:B:251:ILE:O	3:B:252:ASP:OD1	2.36	0.44
1:H:357:VAL:HG11	1:H:359:PRO:HG3	1.99	0.44
1:H:465:ASP:CG	1:H:473:ARG:NH2	2.68	0.44
1:H:497:LEU:HD13	2:I:132:PRO:CD	2.31	0.44
2:I:24:ILE:CG1	2:I:25:ALA:N	2.81	0.44
2:I:84:TRP:HB2	2:I:245:LEU:HD12	1.98	0.44
2:I:129:GLN:C	2:I:131:PHE:N	2.70	0.44
2:I:203:PHE:O	2:I:208:LEU:N	2.47	0.44
3:D:193:ASP:C	3:D:195:VAL:N	2.68	0.44
1:F:276:PRO:HG2	1:F:277:PHE:H	1.83	0.43
3:B:79:MET:SD	3:B:81:PHE:CZ	3.11	0.43
3:B:346:GLY:O	3:B:348:PRO:HD2	2.18	0.43
1:H:82:PRO:HB3	2:I:139:ALA:HB3	2.00	0.43
2:I:102:LEU:N	2:I:102:LEU:HD23	2.33	0.43
3:C:246:VAL:HG21	3:C:281:MET:HG3	2.00	0.43
3:D:13:TRP:HH2	3:D:53:GLU:CD	2.21	0.43
1:F:284:THR:CB	1:F:467:LEU:HD23	2.47	0.43
1:F:399:LEU:CD2	3:B:87:TYR:CE2	3.01	0.43
1:F:497:LEU:CD1	2:G:132:PRO:HD3	2.31	0.43
3:A:132:LYS:O	3:A:134:LEU:N	2.45	0.43
3:A:222:TYR:CE1	3:A:286:ARG:CZ	3.01	0.43
3:B:28:GLU:HG3	3:B:29:GLY:H	1.82	0.43
3:B:82:GLN:O	3:B:83:SER:O	2.36	0.43
1:H:91:PHE:CB	1:H:485:GLY:CA	2.96	0.43
1:H:470:TYR:O	1:H:474:ILE:HG12	2.18	0.43
3:D:11:LYS:CG	3:D:12:ALA:H	2.29	0.43
3:D:79:MET:SD	3:D:81:PHE:CZ	3.11	0.43
1:F:82:PRO:HA	2:G:139:ALA:HB1	1.99	0.43
1:F:88:ALA:C	1:F:90:ALA:N	2.70	0.43
1:F:89:ILE:O	1:F:90:ALA:C	2.56	0.43
1:F:91:PHE:CB	1:F:485:GLY:CA	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:395:ILE:HG23	1:F:396:PRO:HD2	2.01	0.43
1:F:424:LYS:HZ3	1:F:511:MET:HE1	1.83	0.43
1:F:454:ARG:HB2	1:F:457:THR:HG23	2.00	0.43
2:G:229:GLU:CG	2:G:230:VAL:N	2.81	0.43
3:A:50:ALA:HB2	3:A:156:LEU:HD12	2.00	0.43
3:A:217:LYS:HB3	3:A:218:PRO:HD2	2.00	0.43
3:B:13:TRP:HH2	3:B:53:GLU:CD	2.21	0.43
1:H:88:ALA:C	1:H:90:ALA:N	2.70	0.43
1:H:94:TYR:H	1:H:94:TYR:HD1	1.66	0.43
2:I:126:LEU:HD23	2:I:126:LEU:C	2.38	0.43
3:C:24:LEU:CD1	3:C:26:ILE:HD11	2.48	0.43
3:C:155:PHE:HB2	3:C:187:MET:HG3	2.00	0.43
3:C:253:GLN:H	3:C:253:GLN:HG2	1.65	0.43
3:C:347:LEU:O	3:C:349:PRO:CD	2.66	0.43
3:D:355:PHE:N	3:D:355:PHE:CD1	2.85	0.43
1:F:290:ILE:HG13	1:F:291:THR:N	2.33	0.43
1:F:329:SER:O	1:F:333:ILE:CG1	2.61	0.43
1:F:470:TYR:O	1:F:474:ILE:HG12	2.18	0.43
2:G:251:GLN:O	2:G:253:LEU:N	2.40	0.43
3:A:18:VAL:O	3:A:18:VAL:CG1	2.57	0.43
3:A:28:GLU:O	3:A:30:GLU:N	2.52	0.43
3:A:195:VAL:HG13	3:B:310:LEU:CD2	2.48	0.43
3:A:299:ILE:CG2	3:A:300:LEU:H	2.26	0.43
3:B:240:ASN:O	3:B:241:PHE:CG	2.71	0.43
1:H:322:ILE:HG22	1:H:323:LEU:N	2.32	0.43
1:H:399:LEU:CD2	3:D:87:TYR:CE2	3.01	0.43
3:C:283:LEU:O	3:C:283:LEU:HG	2.17	0.43
3:D:12:ALA:HB2	3:D:17:VAL:HA	2.00	0.43
3:D:171:GLN:O	3:D:175:GLU:HG2	2.19	0.43
3:D:240:ASN:O	3:D:241:PHE:CG	2.71	0.43
1:F:296:VAL:O	1:F:297:ALA:C	2.57	0.43
1:F:383:TYR:CD2	1:F:383:TYR:C	2.92	0.43
2:G:91:VAL:O	2:G:95:SER:CB	2.67	0.43
2:G:208:LEU:HD23	2:G:208:LEU:HA	1.84	0.43
3:B:51:GLY:O	3:B:53:GLU:N	2.39	0.43
3:B:168:LEU:O	3:B:169:ARG:C	2.56	0.43
3:B:269:PRO:O	3:B:365:LEU:HG	2.19	0.43
3:B:283:LEU:HD12	3:B:353:HIS:O	2.17	0.43
1:H:345:GLY:O	1:H:347:ILE:N	2.51	0.43
1:H:468:VAL:CG1	1:H:469:ASN:N	2.81	0.43
3:C:50:ALA:HB2	3:C:156:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:195:VAL:HG13	3:D:310:LEU:CD2	2.47	0.43
3:C:222:TYR:CE1	3:C:286:ARG:CZ	3.01	0.43
3:C:223:HIS:O	3:C:353:HIS:CE1	2.72	0.43
3:C:311:GLY:O	3:C:313:GLU:N	2.46	0.43
3:D:269:PRO:O	3:D:365:LEU:HG	2.19	0.43
1:F:93:ASN:OD1	1:F:98:ASN:ND2	2.50	0.43
1:F:399:LEU:HD21	3:B:87:TYR:CD2	2.53	0.43
2:G:88:SER:O	2:G:227:ILE:HD11	2.18	0.43
2:G:245:LEU:HA	2:G:245:LEU:HD12	1.79	0.43
3:A:174:ILE:O	3:A:178:ARG:N	2.38	0.43
3:A:344:ALA:O	3:A:345:ILE:CG2	2.63	0.43
3:B:123:LEU:CD1	3:B:141:ARG:HH21	2.31	0.43
3:B:222:TYR:HE1	3:B:286:ARG:NE	2.16	0.43
3:B:274:ASP:O	3:B:275:VAL:HG13	2.18	0.43
1:H:322:ILE:CG2	2:I:278:PHE:CE1	3.00	0.43
1:H:408:ALA:HB1	1:H:412:GLN:HB2	2.00	0.43
2:I:244:THR:H	2:I:247:VAL:CG2	2.31	0.43
3:D:28:GLU:HG3	3:D:29:GLY:H	1.82	0.43
3:D:79:MET:HG2	3:D:80:VAL:N	2.34	0.43
3:D:255:GLN:NE2	3:D:267:TRP:CE2	2.86	0.43
1:F:90:ALA:HA	1:F:490:ILE:HD12	1.99	0.43
1:F:390:GLY:O	1:F:393:LYS:HB2	2.19	0.43
1:F:448:THR:C	1:F:450:GLY:N	2.71	0.43
3:A:85:ALA:C	3:A:146:ARG:HH22	2.21	0.43
3:A:268:LEU:HA	3:A:269:PRO:HD2	1.75	0.43
3:A:285:ILE:CG1	3:A:286:ARG:N	2.81	0.43
3:B:194:GLN:H	3:B:194:GLN:NE2	2.16	0.43
3:B:255:GLN:NE2	3:B:267:TRP:CE2	2.86	0.43
3:B:356:ARG:HH11	3:B:360:THR:CB	2.32	0.43
1:H:390:GLY:O	1:H:393:LYS:HB2	2.19	0.43
1:H:399:LEU:HD21	3:D:87:TYR:CD2	2.54	0.43
1:H:465:ASP:OD2	1:H:473:ARG:NH2	2.48	0.43
1:H:509:THR:O	1:H:509:THR:HG23	2.19	0.43
2:I:85:LEU:N	2:I:245:LEU:HD13	2.33	0.43
3:C:125:HIS:C	3:C:127:LEU:H	2.21	0.43
3:D:92:VAL:HB	3:D:127:LEU:O	2.19	0.43
3:D:297:ASP:O	3:D:299:ILE:HG12	2.19	0.43
1:F:280:ILE:CG1	1:F:467:LEU:HD22	2.48	0.43
1:F:468:VAL:CG1	1:F:469:ASN:N	2.81	0.43
3:B:12:ALA:C	3:B:14:GLY:N	2.72	0.43
3:B:83:SER:C	3:B:84:TYR:CG	2.91	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:240:ASN:HD21	3:B:328:VAL:CB	2.24	0.43
1:H:73:ALA:O	1:H:77:LEU:HB2	2.17	0.43
1:H:82:PRO:HA	2:I:139:ALA:HB1	1.99	0.43
1:H:341:ASN:HB3	1:H:344:PHE:C	2.38	0.43
2:I:91:VAL:O	2:I:95:SER:CB	2.67	0.43
2:I:96:ALA:HA	2:I:222:SER:HB3	2.01	0.43
3:C:204:ILE:HD12	3:C:221:LEU:CD1	2.48	0.43
3:C:215:VAL:CG1	3:C:216:GLY:N	2.81	0.43
3:C:224:TYR:HE2	3:C:371:VAL:CG1	2.29	0.43
3:D:150:ALA:O	3:D:151:GLU:HB2	2.19	0.43
1:F:341:ASN:HB3	1:F:344:PHE:CB	2.48	0.43
2:G:96:ALA:HA	2:G:222:SER:HB3	2.01	0.43
2:G:230:VAL:HG12	2:G:231:PRO:HD3	2.01	0.43
3:A:240:ASN:ND2	3:A:287:PRO:HG3	2.34	0.43
3:A:246:VAL:HG21	3:A:281:MET:HG3	2.00	0.43
3:A:253:GLN:O	3:A:254:VAL:HG23	2.19	0.43
3:A:289:HIS:O	3:A:291:LEU:N	2.52	0.43
3:B:28:GLU:CG	3:B:29:GLY:H	2.32	0.43
3:B:171:GLN:O	3:B:175:GLU:HG2	2.19	0.43
2:I:146:ARG:O	2:I:149:GLU:CG	2.66	0.43
3:C:123:LEU:CD1	3:C:141:ARG:NH2	2.77	0.43
3:C:363:ARG:O	3:C:363:ARG:CG	2.66	0.43
3:D:313:GLU:OE1	3:D:330:ARG:NH2	2.47	0.43
3:D:363:ARG:CG	3:D:364:ARG:N	2.81	0.43
1:F:465:ASP:CG	1:F:473:ARG:NH2	2.68	0.43
2:G:18:LEU:CG	2:G:19:LEU:N	2.82	0.43
3:A:155:PHE:HB2	3:A:187:MET:HG3	2.00	0.43
3:B:100:LEU:HD13	3:B:110:ILE:CD1	2.48	0.43
1:H:296:VAL:O	1:H:297:ALA:C	2.57	0.43
3:C:217:LYS:HB3	3:C:218:PRO:HD2	2.00	0.43
3:C:291:LEU:HD23	3:C:292:PRO:HD3	2.01	0.43
3:D:82:GLN:O	3:D:83:SER:O	2.36	0.43
3:D:257:GLU:HB2	3:D:265:GLN:HA	2.01	0.43
3:D:258:LEU:N	3:D:258:LEU:CD2	2.80	0.43
3:D:277:VAL:C	3:D:279:ALA:H	2.22	0.43
1:F:376:ASN:HD21	1:F:379:LEU:HD23	1.84	0.42
1:F:387:LEU:HD12	1:F:387:LEU:HA	1.94	0.42
2:G:129:GLN:C	2:G:131:PHE:N	2.70	0.42
3:A:234:ILE:CG2	3:A:235:GLY:H	2.27	0.42
3:B:2:ALA:O	3:B:4:VAL:N	2.48	0.42
3:B:180:HIS:HB2	3:B:187:MET:SD	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:280:ILE:CG1	1:H:467:LEU:HD22	2.48	0.42
1:H:290:ILE:HG13	1:H:291:THR:N	2.33	0.42
1:H:314:LYS:H	1:H:314:LYS:CD	2.27	0.42
1:H:383:TYR:C	1:H:383:TYR:CD2	2.92	0.42
1:H:424:LYS:NZ	1:H:511:MET:HE1	2.34	0.42
1:H:439:ASN:CB	2:I:132:PRO:CB	2.97	0.42
2:I:103:SER:O	2:I:107:ALA:CB	2.67	0.42
3:C:85:ALA:C	3:C:146:ARG:HH22	2.21	0.42
3:C:289:HIS:O	3:C:291:LEU:N	2.52	0.42
3:C:351:ARG:HG3	3:C:351:ARG:NH1	2.33	0.42
1:F:90:ALA:O	1:F:487:ALA:HB2	2.17	0.42
1:F:307:GLN:C	1:F:309:GLU:N	2.71	0.42
1:F:400:TYR:O	1:F:403:SER:HB2	2.20	0.42
1:F:408:ALA:HB1	1:F:412:GLN:HB2	2.00	0.42
2:G:88:SER:OG	2:G:245:LEU:N	2.34	0.42
2:G:103:SER:O	2:G:107:ALA:CB	2.67	0.42
3:A:87:TYR:HB2	3:A:95:ASN:ND2	2.33	0.42
3:A:152:PRO:CG	3:A:153:SER:H	2.32	0.42
3:A:298:VAL:HG21	3:A:349:PRO:HD3	2.01	0.42
1:H:348:ASN:HD21	1:H:361:TRP:HD1	1.65	0.42
1:H:459:THR:HB	1:H:474:ILE:CG2	2.49	0.42
2:I:99:ILE:HD12	2:I:222:SER:OG	2.19	0.42
3:C:179:LEU:O	3:C:182:ARG:HB3	2.18	0.42
3:D:168:LEU:O	3:D:169:ARG:C	2.56	0.42
1:F:342:GLN:H	1:F:342:GLN:HG2	1.44	0.42
1:F:345:GLY:O	1:F:347:ILE:N	2.52	0.42
2:G:85:LEU:N	2:G:245:LEU:HD13	2.33	0.42
3:A:84:TYR:CE1	3:A:140:GLN:HG3	2.55	0.42
3:A:242:LEU:HB2	3:A:243:PRO:CD	2.49	0.42
3:A:289:HIS:O	3:A:291:LEU:HG	2.19	0.42
3:A:345:ILE:O	3:A:345:ILE:HD12	2.19	0.42
3:B:150:ALA:O	3:B:151:GLU:HB2	2.19	0.42
3:B:208:ASP:O	3:B:209:ALA:HB3	2.20	0.42
3:B:363:ARG:CG	3:B:364:ARG:N	2.81	0.42
1:H:83:LEU:HD13	1:H:83:LEU:HA	1.91	0.42
1:H:92:THR:CG2	1:H:93:ASN:H	2.17	0.42
1:H:454:ARG:HB2	1:H:457:THR:HG23	2.00	0.42
1:H:471:THR:CG2	2:I:135:LEU:HD22	2.50	0.42
3:C:12:ALA:C	3:C:14:GLY:N	2.73	0.42
3:C:253:GLN:O	3:C:254:VAL:HG23	2.19	0.42
3:C:289:HIS:O	3:C:291:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:291:LEU:HB3	3:C:292:PRO:HD2	2.01	0.42
3:D:4:VAL:CG2	3:D:5:GLN:H	2.31	0.42
1:F:82:PRO:HB3	2:G:139:ALA:HB3	2.00	0.42
1:F:94:TYR:CE2	1:F:99:GLN:HA	2.54	0.42
1:F:333:ILE:CA	1:F:336:PHE:HB2	2.46	0.42
1:F:405:MET:O	3:B:73:ALA:CB	2.68	0.42
2:G:99:ILE:HD12	2:G:222:SER:OG	2.19	0.42
3:A:215:VAL:CG1	3:A:216:GLY:N	2.81	0.42
3:A:291:LEU:HB3	3:A:292:PRO:HD2	2.01	0.42
3:A:347:LEU:O	3:A:349:PRO:CD	2.66	0.42
3:B:180:HIS:HA	3:B:187:MET:SD	2.59	0.42
1:H:284:THR:CG2	1:H:467:LEU:N	2.75	0.42
1:H:395:ILE:HG23	1:H:396:PRO:HD2	2.01	0.42
2:I:18:LEU:CG	2:I:19:LEU:N	2.82	0.42
2:I:82:LEU:CD2	2:I:269:MET:HE1	2.50	0.42
3:C:159:GLU:O	3:C:161:LEU:N	2.48	0.42
3:D:208:ASP:O	3:D:209:ALA:HB3	2.20	0.42
3:D:240:ASN:HD21	3:D:328:VAL:CB	2.25	0.42
3:D:251:ILE:O	3:D:252:ASP:OD1	2.36	0.42
1:F:41:LEU:CD2	1:F:44:ILE:HD12	2.50	0.42
1:F:293:PHE:C	1:F:293:PHE:HD2	2.22	0.42
1:F:459:THR:HB	1:F:474:ILE:CG2	2.49	0.42
2:G:216:ALA:O	2:G:220:ILE:HG23	2.19	0.42
3:A:54:THR:HA	3:A:55:ILE:HD12	2.02	0.42
3:A:223:HIS:O	3:A:353:HIS:CE1	2.72	0.42
3:A:311:GLY:O	3:A:313:GLU:N	2.46	0.42
3:B:23:ASN:O	3:B:24:LEU:CD2	2.66	0.42
3:B:32:VAL:C	3:B:33:VAL:CG1	2.88	0.42
3:B:42:LYS:CE	3:B:190:VAL:CG1	2.98	0.42
1:H:300:MET:HB2	1:H:388:CYS:SG	2.59	0.42
2:I:88:SER:O	2:I:227:ILE:HD11	2.18	0.42
2:I:216:ALA:O	2:I:220:ILE:HG23	2.19	0.42
2:I:254:ASN:CB	2:I:255:PRO:CD	2.82	0.42
3:C:55:ILE:HG12	3:C:68:ASN:CG	2.39	0.42
3:C:242:LEU:HB2	3:C:243:PRO:CD	2.49	0.42
3:C:312:ASN:O	3:C:313:GLU:CB	2.67	0.42
3:D:32:VAL:C	3:D:33:VAL:CG1	2.88	0.42
2:G:100:VAL:HG22	2:G:218:VAL:CG1	2.49	0.42
2:G:146:ARG:O	2:G:149:GLU:CG	2.66	0.42
3:A:12:ALA:C	3:A:14:GLY:N	2.72	0.42
3:A:26:ILE:HG23	3:A:32:VAL:CG2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:47:ARG:O	3:A:48:MET:C	2.56	0.42
3:A:55:ILE:HG12	3:A:68:ASN:CG	2.39	0.42
3:A:242:LEU:N	3:A:242:LEU:HD12	2.35	0.42
3:A:286:ARG:HG2	3:A:286:ARG:HH11	1.84	0.42
3:B:260:MET:CE	3:B:320:ILE:HG21	2.48	0.42
1:H:419:LEU:HB3	1:H:420:PRO:HD3	2.02	0.42
1:H:486:LEU:CB	1:H:489:ALA:HB3	2.50	0.42
2:I:230:VAL:HG12	2:I:231:PRO:HD3	2.01	0.42
2:I:257:ASN:C	2:I:258:TYR:CD2	2.93	0.42
3:C:8:ASN:CG	3:C:23:ASN:HD21	2.22	0.42
3:C:28:GLU:O	3:C:30:GLU:N	2.52	0.42
3:C:51:GLY:CA	3:C:72:PRO:HG3	2.50	0.42
3:C:284:GLY:O	3:C:353:HIS:HB2	2.20	0.42
3:D:52:LEU:HD23	3:D:72:PRO:CG	2.50	0.42
3:D:96:MET:C	3:D:98:PHE:N	2.67	0.42
1:F:271:GLU:CD	1:F:271:GLU:N	2.73	0.42
1:F:295:THR:HG23	1:F:381:TYR:HA	2.02	0.42
1:F:337:LYS:NZ	2:G:253:LEU:HD12	2.35	0.42
3:B:92:VAL:HB	3:B:127:LEU:O	2.19	0.42
1:H:41:LEU:CD2	1:H:44:ILE:HD12	2.50	0.42
1:H:271:GLU:N	1:H:271:GLU:CD	2.73	0.42
1:H:423:ILE:HD13	1:H:423:ILE:N	2.34	0.42
2:I:94:ILE:CG1	2:I:163:ILE:HG21	2.49	0.42
3:C:240:ASN:ND2	3:C:287:PRO:HG3	2.34	0.42
3:C:298:VAL:HG21	3:C:349:PRO:HD3	2.01	0.42
3:C:345:ILE:O	3:C:345:ILE:HD12	2.19	0.42
3:C:357:GLU:O	3:C:359:GLY:N	2.52	0.42
3:D:89:HIS:NE2	3:D:90:LEU:HG	2.34	0.42
3:D:287:PRO:CB	3:D:330:ARG:H	2.27	0.42
1:F:300:MET:HB2	1:F:388:CYS:SG	2.59	0.42
1:F:419:LEU:HB3	1:F:420:PRO:HD3	2.02	0.42
1:F:439:ASN:CB	2:G:132:PRO:CB	2.97	0.42
2:G:230:VAL:CG1	2:G:231:PRO:HD3	2.50	0.42
2:G:257:ASN:C	2:G:258:TYR:CD2	2.93	0.42
3:A:31:PHE:HD2	3:A:180:HIS:CG	2.37	0.42
3:A:34:PHE:CD2	3:A:34:PHE:N	2.88	0.42
3:A:291:LEU:HD23	3:A:292:PRO:HD3	2.01	0.42
3:A:312:ASN:O	3:A:313:GLU:CB	2.67	0.42
1:H:337:LYS:NZ	2:I:253:LEU:HD12	2.35	0.42
1:H:440:ASN:OD1	1:H:443:LEU:HB3	2.20	0.42
1:H:473:ARG:C	1:H:475:ALA:N	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:100:VAL:HG22	2:I:218:VAL:CG1	2.49	0.42
3:D:356:ARG:HH11	3:D:360:THR:CB	2.32	0.42
1:F:438:PHE:O	1:F:466:LEU:HD13	2.20	0.42
1:F:471:THR:CG2	2:G:135:LEU:HD22	2.49	0.42
1:F:473:ARG:C	1:F:475:ALA:N	2.73	0.42
3:B:197:ALA:O	3:B:201:ALA:CB	2.68	0.42
3:B:277:VAL:C	3:B:279:ALA:H	2.22	0.42
1:H:48:ILE:HG13	1:H:49:LEU:H	1.85	0.42
3:C:225:PRO:CD	3:C:353:HIS:NE2	2.64	0.42
3:D:28:GLU:CG	3:D:29:GLY:H	2.32	0.42
3:D:77:VAL:C	3:D:152:PRO:HB2	2.40	0.42
3:D:180:HIS:HB2	3:D:187:MET:SD	2.59	0.42
1:F:279:ALA:HB1	1:F:454:ARG:CZ	2.50	0.42
1:F:283:TRP:NE1	1:F:466:LEU:HD23	2.35	0.42
1:F:306:VAL:HG12	1:F:318:ARG:HH11	1.85	0.42
1:F:391:LEU:CD2	1:F:425:PRO:HB2	2.32	0.42
1:F:400:TYR:CE2	1:F:413:ASN:HB3	2.55	0.42
1:F:454:ARG:C	1:F:455:LEU:HG	2.40	0.42
3:A:259:PRO:O	3:A:263:ARG:NH1	2.53	0.42
3:A:357:GLU:C	3:A:359:GLY:N	2.68	0.42
3:A:357:GLU:O	3:A:359:GLY:N	2.52	0.42
3:B:242:LEU:HD12	3:B:283:LEU:O	2.19	0.42
3:B:297:ASP:O	3:B:299:ILE:HG12	2.19	0.42
3:B:369:PRO:O	3:B:371:VAL:HG23	2.20	0.42
1:H:283:TRP:NE1	1:H:466:LEU:HD23	2.35	0.42
1:H:376:ASN:HD21	1:H:379:LEU:HD23	1.84	0.42
2:I:84:TRP:CB	2:I:245:LEU:HD12	2.50	0.42
2:I:212:VAL:HG22	2:I:215:LEU:CD1	2.42	0.42
3:C:242:LEU:N	3:C:242:LEU:HD12	2.35	0.42
3:C:248:ALA:O	3:C:249:THR:HG23	2.20	0.42
3:C:259:PRO:O	3:C:263:ARG:NH1	2.53	0.42
3:C:291:LEU:CB	3:C:292:PRO:CD	2.98	0.42
3:D:42:LYS:CE	3:D:190:VAL:CG1	2.98	0.42
3:D:85:ALA:C	3:D:86:LEU:HD23	2.40	0.42
3:D:308:GLU:O	3:D:310:LEU:N	2.50	0.42
1:F:90:ALA:CA	1:F:490:ILE:HD12	2.49	0.41
1:F:97:THR:O	1:F:98:ASN:HB2	2.20	0.41
1:F:364:ASP:HA	1:F:365:PRO:HD3	1.91	0.41
1:F:423:ILE:HD13	1:F:423:ILE:N	2.34	0.41
2:G:214:ILE:HA	2:G:214:ILE:HD12	1.83	0.41
2:G:227:ILE:HD12	2:G:227:ILE:HA	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:10:THR:C	3:A:56:THR:HB	2.40	0.41
3:A:40:CYS:C	3:A:42:LYS:H	2.23	0.41
3:A:354:LEU:HG	3:A:355:PHE:N	2.35	0.41
3:B:74:GLU:O	3:B:76:GLY:N	2.53	0.41
3:B:249:THR:O	3:B:250:ALA:HB2	2.20	0.41
3:B:267:TRP:C	3:B:268:LEU:HD23	2.40	0.41
1:H:306:VAL:HG12	1:H:318:ARG:HH11	1.85	0.41
1:H:405:MET:O	3:D:73:ALA:CB	2.68	0.41
2:I:94:ILE:HD11	2:I:163:ILE:HD13	2.02	0.41
2:I:104:THR:CG2	2:I:105:THR:N	2.83	0.41
3:C:31:PHE:HD2	3:C:180:HIS:CG	2.37	0.41
3:C:286:ARG:HG2	3:C:286:ARG:HH11	1.84	0.41
3:D:52:LEU:O	3:D:53:GLU:HB2	2.20	0.41
3:D:155:PHE:N	3:D:155:PHE:HD1	2.16	0.41
3:D:197:ALA:O	3:D:201:ALA:CB	2.68	0.41
3:D:222:TYR:HE1	3:D:286:ARG:NE	2.16	0.41
3:D:242:LEU:HD12	3:D:283:LEU:O	2.19	0.41
1:F:280:ILE:HG13	1:F:467:LEU:HD21	2.02	0.41
1:F:352:SER:HB3	1:F:358:LYS:HB2	2.02	0.41
1:F:446:LEU:N	1:F:446:LEU:CD1	2.83	0.41
3:A:32:VAL:CG1	3:A:33:VAL:H	2.31	0.41
3:A:284:GLY:O	3:A:353:HIS:HB2	2.20	0.41
3:B:85:ALA:C	3:B:86:LEU:HD23	2.40	0.41
3:B:316:ILE:HG22	3:B:318:ILE:HG13	2.03	0.41
1:H:293:PHE:C	1:H:293:PHE:HD2	2.22	0.41
1:H:338:GLY:HA3	2:I:260:TRP:NE1	2.35	0.41
3:C:32:VAL:CG1	3:C:33:VAL:H	2.31	0.41
3:C:354:LEU:HG	3:C:355:PHE:N	2.35	0.41
1:F:424:LYS:NZ	1:F:511:MET:HE1	2.35	0.41
1:F:440:ASN:OD1	1:F:443:LEU:HB3	2.20	0.41
1:F:486:LEU:CB	1:F:489:ALA:HB3	2.50	0.41
1:F:509:THR:O	1:F:509:THR:HG23	2.19	0.41
2:G:237:LEU:HD13	2:G:242:SER:O	2.20	0.41
3:A:248:ALA:O	3:A:249:THR:HG23	2.20	0.41
3:A:291:LEU:CB	3:A:292:PRO:CD	2.98	0.41
3:B:51:GLY:HA2	3:B:75:ARG:CZ	2.50	0.41
3:B:79:MET:HG2	3:B:80:VAL:N	2.34	0.41
3:B:113:ARG:NE	3:B:149:VAL:O	2.51	0.41
1:H:400:TYR:O	1:H:403:SER:HB2	2.20	0.41
1:H:446:LEU:N	1:H:446:LEU:CD1	2.83	0.41
1:H:460:PRO:HD3	1:H:482:GLN:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:18:VAL:O	3:C:19:SER:OG	2.34	0.41
3:C:301:GLU:CG	3:C:302:GLY:N	2.84	0.41
3:C:355:PHE:HD2	3:C:361:ALA:HA	1.85	0.41
3:D:186:THR:CG2	3:D:187:MET:N	2.83	0.41
3:D:286:ARG:HH11	3:D:286:ARG:HG2	1.85	0.41
3:D:369:PRO:O	3:D:371:VAL:N	2.41	0.41
1:F:111:ASP:O	1:F:113:SER:N	2.53	0.41
1:F:308:TRP:CZ2	1:F:410:PRO:HB3	2.52	0.41
1:F:331:ILE:HG21	2:G:270:SER:OG	2.21	0.41
1:F:375:VAL:CG1	1:F:376:ASN:N	2.83	0.41
1:F:486:LEU:HD13	1:F:490:ILE:HG13	2.03	0.41
1:F:486:LEU:O	1:F:490:ILE:CG1	2.57	0.41
2:G:212:VAL:HA	2:G:215:LEU:CG	2.39	0.41
3:A:8:ASN:CG	3:A:23:ASN:HD21	2.22	0.41
3:A:102:LEU:HA	3:A:102:LEU:HD12	1.84	0.41
3:A:245:LYS:HE2	3:A:280:ASN:OD1	2.20	0.41
3:A:300:LEU:HD22	3:A:320:ILE:CD1	2.51	0.41
3:B:180:HIS:O	3:B:184:GLY:N	2.45	0.41
1:H:90:ALA:CA	1:H:490:ILE:HD12	2.49	0.41
1:H:97:THR:O	1:H:98:ASN:HB2	2.20	0.41
1:H:383:TYR:C	1:H:383:TYR:HD2	2.24	0.41
3:C:6:LEU:HG	3:C:9:VAL:HG21	2.03	0.41
3:C:84:TYR:CE1	3:C:140:GLN:HG3	2.55	0.41
3:D:32:VAL:CG1	3:D:33:VAL:N	2.83	0.41
3:D:180:HIS:HA	3:D:187:MET:SD	2.59	0.41
1:F:267:VAL:CA	1:F:488:ALA:HB2	2.38	0.41
2:G:84:TRP:CB	2:G:245:LEU:HD12	2.50	0.41
2:G:104:THR:CG2	2:G:105:THR:N	2.83	0.41
2:G:245:LEU:HG	2:G:249:MET:HE1	2.02	0.41
3:A:159:GLU:O	3:A:161:LEU:N	2.48	0.41
3:B:306:VAL:CG1	3:B:307:VAL:N	2.78	0.41
1:H:331:ILE:HG21	2:I:270:SER:OG	2.21	0.41
1:H:400:TYR:CE2	1:H:413:ASN:HB3	2.55	0.41
1:H:454:ARG:NH1	1:H:463:TYR:HA	2.35	0.41
1:H:471:THR:CG2	2:I:135:LEU:CD2	2.99	0.41
1:H:498:VAL:HA	1:H:501:LEU:CG	2.51	0.41
2:I:103:SER:O	2:I:107:ALA:HB2	2.21	0.41
3:D:267:TRP:C	3:D:268:LEU:HD23	2.40	0.41
3:D:270:VAL:O	3:D:365:LEU:HD11	2.21	0.41
3:D:354:LEU:CD1	3:D:355:PHE:H	2.28	0.41
1:F:94:TYR:HD1	1:F:94:TYR:H	1.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:278:LEU:H	1:F:278:LEU:CD2	2.33	0.41
1:F:338:GLY:HA3	2:G:260:TRP:NE1	2.35	0.41
1:F:358:LYS:N	1:F:359:PRO:CD	2.83	0.41
1:F:498:VAL:HA	1:F:501:LEU:CG	2.51	0.41
3:A:34:PHE:CE2	3:A:188:ILE:HG23	2.56	0.41
3:B:10:THR:O	3:B:56:THR:HB	2.20	0.41
3:B:52:LEU:HD23	3:B:72:PRO:CG	2.50	0.41
3:C:10:THR:C	3:C:56:THR:HB	2.40	0.41
3:C:26:ILE:HG23	3:C:32:VAL:CG2	2.50	0.41
3:C:268:LEU:HA	3:C:269:PRO:HD2	1.75	0.41
3:C:300:LEU:HD22	3:C:320:ILE:CD1	2.51	0.41
3:C:320:ILE:HD11	3:C:327:LEU:HD22	2.03	0.41
1:F:328:PRO:HD2	1:F:331:ILE:CG2	2.51	0.41
1:F:460:PRO:HD3	1:F:482:GLN:HG2	2.01	0.41
2:G:94:ILE:CG1	2:G:163:ILE:HG21	2.49	0.41
3:A:81:PHE:CD1	3:A:85:ALA:HB2	2.55	0.41
3:A:240:ASN:HD21	3:A:328:VAL:N	2.18	0.41
3:B:83:SER:C	3:B:84:TYR:CD2	2.94	0.41
3:B:225:PRO:HD2	3:B:353:HIS:CD2	2.56	0.41
3:B:257:GLU:HB2	3:B:265:GLN:HA	2.01	0.41
3:B:286:ARG:HH11	3:B:286:ARG:HG2	1.85	0.41
3:B:329:TYR:CE2	3:B:343:PHE:HE2	2.37	0.41
3:B:366:HIS:O	3:B:368:GLU:HG2	2.21	0.41
1:H:287:PHE:CE2	1:H:437:ASN:O	2.70	0.41
1:H:326:ALA:O	2:I:274:ILE:CG2	2.69	0.41
1:H:454:ARG:C	1:H:455:LEU:HG	2.40	0.41
2:I:230:VAL:CG1	2:I:231:PRO:HD3	2.50	0.41
3:C:303:GLU:C	3:C:318:ILE:HG23	2.41	0.41
3:D:51:GLY:HA2	3:D:75:ARG:CZ	2.50	0.41
3:D:345:ILE:O	3:D:345:ILE:HD12	2.21	0.41
1:F:283:TRP:CH2	1:F:369:ARG:HB3	2.55	0.41
1:F:337:LYS:NZ	2:G:253:LEU:CD1	2.80	0.41
2:G:93:GLY:CA	2:G:223:PHE:CE1	3.01	0.41
2:G:94:ILE:HD11	2:G:163:ILE:HD13	2.02	0.41
3:A:210:GLY:O	3:A:211:ARG:CG	2.69	0.41
3:A:299:ILE:O	3:A:300:LEU:HG	2.20	0.41
3:A:314:THR:HG22	3:A:315:GLN:H	1.86	0.41
3:B:52:LEU:O	3:B:53:GLU:HB2	2.20	0.41
3:B:224:TYR:CE2	3:B:371:VAL:HG11	2.56	0.41
3:B:298:VAL:O	3:B:346:GLY:HA2	2.21	0.41
3:B:345:ILE:O	3:B:345:ILE:HD12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:337:LYS:NZ	2:I:253:LEU:CG	2.81	0.41
1:H:352:SER:HB3	1:H:358:LYS:HB2	2.02	0.41
1:H:446:LEU:N	1:H:446:LEU:HD12	2.36	0.41
3:C:34:PHE:CD2	3:C:34:PHE:N	2.88	0.41
3:C:34:PHE:CE2	3:C:188:ILE:HG23	2.56	0.41
3:C:164:LEU:HD13	3:C:168:LEU:CD2	2.51	0.41
3:C:354:LEU:C	3:C:355:PHE:CD1	2.94	0.41
3:D:10:THR:O	3:D:56:THR:HB	2.21	0.41
3:D:23:ASN:O	3:D:24:LEU:CD2	2.66	0.41
1:F:81:PHE:CZ	1:F:85:CYS:SG	3.14	0.41
1:F:306:VAL:CG1	1:F:318:ARG:HH11	2.34	0.41
1:F:326:ALA:O	2:G:274:ILE:CG2	2.69	0.41
1:F:470:TYR:CE2	1:F:474:ILE:HD13	2.56	0.41
2:G:22:LEU:HD22	2:G:22:LEU:N	2.36	0.41
2:G:100:VAL:CG2	2:G:218:VAL:HG12	2.51	0.41
2:G:160:GLY:HA2	2:G:163:ILE:HG12	2.03	0.41
2:G:187:SER:HA	2:G:190:GLU:OE1	2.21	0.41
3:A:18:VAL:O	3:A:19:SER:OG	2.34	0.41
3:A:32:VAL:CG1	3:A:33:VAL:N	2.82	0.41
3:A:43:SER:O	3:A:46:LEU:N	2.54	0.41
3:A:44:THR:HG22	3:A:48:MET:HE3	2.02	0.41
3:A:51:GLY:CA	3:A:72:PRO:HG3	2.50	0.41
3:A:153:SER:O	3:A:185:ARG:CB	2.65	0.41
3:A:285:ILE:CD1	3:A:286:ARG:N	2.81	0.41
3:A:303:GLU:C	3:A:318:ILE:HG23	2.41	0.41
3:A:351:ARG:HG3	3:A:351:ARG:NH1	2.33	0.41
3:B:26:ILE:H	3:B:26:ILE:CD1	2.14	0.41
3:B:155:PHE:N	3:B:155:PHE:HD1	2.16	0.41
3:B:168:LEU:CD1	3:B:172:MET:HG2	2.51	0.41
3:B:169:ARG:HD3	3:B:193:ASP:OD1	2.21	0.41
3:B:242:LEU:CD1	3:B:283:LEU:O	2.69	0.41
3:B:270:VAL:O	3:B:365:LEU:HD11	2.21	0.41
3:B:299:ILE:O	3:B:300:LEU:CG	2.69	0.41
1:H:271:GLU:HG2	1:H:272:GLY:H	1.85	0.41
1:H:283:TRP:CH2	1:H:369:ARG:HB3	2.55	0.41
1:H:492:THR:HG23	1:H:493:LEU:N	2.36	0.41
2:I:82:LEU:HD23	2:I:269:MET:HE2	2.03	0.41
2:I:100:VAL:CG2	2:I:218:VAL:HG12	2.51	0.41
2:I:237:LEU:HD13	2:I:242:SER:O	2.20	0.41
3:C:54:THR:HA	3:C:55:ILE:HD12	2.02	0.41
3:C:84:TYR:O	3:C:85:ALA:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:188:ILE:O	3:C:189:TYR:HB2	2.21	0.41
3:C:240:ASN:HD21	3:C:328:VAL:N	2.18	0.41
3:D:38:SER:C	3:D:40:CYS:N	2.75	0.41
3:D:83:SER:C	3:D:84:TYR:CD2	2.94	0.41
3:D:85:ALA:O	3:D:146:ARG:CZ	2.69	0.41
3:D:168:LEU:CD1	3:D:172:MET:HG2	2.51	0.41
3:D:249:THR:O	3:D:250:ALA:HB2	2.20	0.41
3:D:276:GLN:HE21	3:D:277:VAL:N	2.19	0.41
3:D:307:VAL:CG1	3:D:309:GLN:NE2	2.77	0.41
3:D:329:TYR:CE2	3:D:343:PHE:HE2	2.38	0.41
3:D:366:HIS:O	3:D:368:GLU:HG2	2.21	0.41
3:D:369:PRO:O	3:D:371:VAL:HG23	2.20	0.41
1:F:271:GLU:HG2	1:F:272:GLY:H	1.85	0.41
1:F:383:TYR:C	1:F:383:TYR:HD2	2.24	0.41
1:F:454:ARG:NH1	1:F:463:TYR:HA	2.35	0.41
3:A:90:LEU:O	3:A:131:PRO:HD3	2.21	0.41
3:A:164:LEU:HD13	3:A:168:LEU:CD2	2.51	0.41
3:B:38:SER:C	3:B:40:CYS:N	2.75	0.41
3:B:77:VAL:C	3:B:152:PRO:HB2	2.40	0.41
3:B:207:LEU:HD23	3:B:207:LEU:HA	1.85	0.41
1:H:94:TYR:CE2	1:H:99:GLN:HA	2.54	0.41
1:H:280:ILE:HG13	1:H:467:LEU:HD21	2.02	0.41
1:H:328:PRO:HD2	1:H:331:ILE:CG2	2.51	0.41
2:I:148:GLY:HA3	2:I:155:GLY:HA3	2.01	0.41
3:C:102:LEU:HA	3:C:102:LEU:HD12	1.84	0.41
3:C:210:GLY:O	3:C:211:ARG:CG	2.69	0.41
3:C:222:TYR:CE1	3:C:286:ARG:NE	2.89	0.41
3:C:239:MET:SD	3:C:241:PHE:HE1	2.44	0.41
3:C:245:LYS:HE2	3:C:280:ASN:OD1	2.20	0.41
3:D:11:LYS:CA	3:D:56:THR:HB	2.39	0.41
3:D:224:TYR:CE2	3:D:371:VAL:HG11	2.56	0.41
3:D:316:ILE:HG22	3:D:318:ILE:HG13	2.03	0.41
1:F:263:ASN:OD1	1:F:263:ASN:C	2.60	0.40
1:F:277:PHE:HZ	1:F:492:THR:HG21	1.86	0.40
1:F:295:THR:HG22	1:F:384:MET:CG	2.51	0.40
1:F:312:ARG:HD2	1:F:313:GLY:N	2.23	0.40
1:F:447:LEU:HD23	1:F:447:LEU:HA	1.90	0.40
3:A:186:THR:CG2	3:A:187:MET:H	2.34	0.40
3:B:11:LYS:CA	3:B:56:THR:HB	2.39	0.40
3:B:55:ILE:N	3:B:55:ILE:CD1	2.83	0.40
3:B:100:LEU:CD1	3:B:101:LYS:N	2.72	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:107:LYS:NZ	3:B:107:LYS:HB2	2.37	0.40
3:B:174:ILE:O	3:B:177:SER:CB	2.66	0.40
1:H:279:ALA:HB1	1:H:454:ARG:CZ	2.50	0.40
1:H:438:PHE:O	1:H:466:LEU:HD13	2.20	0.40
2:I:35:VAL:C	2:I:37:ILE:N	2.56	0.40
2:I:181:PHE:HZ	2:I:203:PHE:CE2	2.35	0.40
3:C:8:ASN:HA	3:C:22:ILE:O	2.21	0.40
3:C:299:ILE:O	3:C:300:LEU:HG	2.20	0.40
3:D:74:GLU:O	3:D:76:GLY:N	2.53	0.40
3:D:222:TYR:HE1	3:D:286:ARG:CD	2.34	0.40
3:D:243:PRO:C	3:D:244:VAL:CG2	2.89	0.40
1:F:348:ASN:HA	1:F:351:LEU:CD2	2.51	0.40
1:F:492:THR:HG23	1:F:493:LEU:N	2.36	0.40
2:G:131:PHE:HD2	2:G:131:PHE:HA	1.81	0.40
3:A:8:ASN:HA	3:A:22:ILE:O	2.21	0.40
3:A:22:ILE:O	3:A:23:ASN:ND2	2.54	0.40
3:A:84:TYR:O	3:A:85:ALA:HB3	2.21	0.40
3:A:200:LEU:HD23	3:A:200:LEU:HA	1.75	0.40
3:A:267:TRP:O	3:A:268:LEU:HD23	2.20	0.40
3:A:355:PHE:HD2	3:A:361:ALA:HA	1.85	0.40
3:B:97:SER:O	3:B:101:LYS:HD3	2.22	0.40
3:B:219:LEU:O	3:B:220:GLU:C	2.60	0.40
3:B:226:ALA:O	3:B:361:ALA:CB	2.70	0.40
3:B:276:GLN:HE21	3:B:277:VAL:N	2.19	0.40
3:B:310:LEU:O	3:B:312:ASN:N	2.54	0.40
1:H:263:ASN:OD1	1:H:263:ASN:C	2.60	0.40
1:H:297:ALA:O	1:H:301:VAL:HB	2.21	0.40
1:H:323:LEU:HA	1:H:326:ALA:CB	2.52	0.40
2:I:177:ILE:HG23	2:I:178:LYS:N	2.36	0.40
2:I:198:THR:O	2:I:199:PRO:C	2.59	0.40
2:I:199:PRO:O	2:I:203:PHE:HB2	2.21	0.40
2:I:214:ILE:HD12	2:I:214:ILE:HA	1.83	0.40
3:C:43:SER:O	3:C:46:LEU:N	2.54	0.40
3:C:81:PHE:CD1	3:C:85:ALA:HB2	2.55	0.40
3:C:90:LEU:O	3:C:131:PRO:HD3	2.21	0.40
3:C:159:GLU:O	3:C:162:SER:OG	2.39	0.40
3:C:267:TRP:O	3:C:268:LEU:HD23	2.20	0.40
3:D:81:PHE:N	3:D:81:PHE:CD1	2.89	0.40
3:D:87:TYR:HB2	3:D:95:ASN:ND2	2.37	0.40
3:D:310:LEU:O	3:D:312:ASN:N	2.54	0.40
1:F:470:TYR:O	1:F:470:TYR:HD2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:471:THR:CG2	2:G:135:LEU:CD2	2.99	0.40
3:A:26:ILE:HG23	3:A:32:VAL:HG21	2.03	0.40
3:A:121:LEU:HD11	3:A:148:LEU:HD12	2.03	0.40
3:A:133:ALA:O	3:A:134:LEU:CG	2.68	0.40
3:A:222:TYR:CE1	3:A:286:ARG:NE	2.89	0.40
3:A:239:MET:SD	3:A:241:PHE:HE1	2.44	0.40
3:A:301:GLU:CG	3:A:302:GLY:N	2.84	0.40
3:B:85:ALA:O	3:B:146:ARG:CZ	2.69	0.40
3:B:130:LYS:HA	3:B:131:PRO:HD3	1.90	0.40
1:H:81:PHE:CZ	1:H:85:CYS:SG	3.14	0.40
1:H:295:THR:HG23	1:H:381:TYR:HA	2.02	0.40
1:H:348:ASN:HA	1:H:351:LEU:CD2	2.51	0.40
1:H:441:PHE:CD2	1:H:468:VAL:HG22	2.54	0.40
1:H:486:LEU:HD13	1:H:490:ILE:HG13	2.03	0.40
2:I:100:VAL:O	2:I:104:THR:HB	2.21	0.40
2:I:172:LEU:HD21	2:I:173:HIS:CD2	2.57	0.40
3:C:18:VAL:O	3:C:18:VAL:CG1	2.57	0.40
3:C:121:LEU:HD11	3:C:148:LEU:HD12	2.03	0.40
3:D:169:ARG:HD3	3:D:193:ASP:OD1	2.21	0.40
3:D:225:PRO:HD2	3:D:353:HIS:CD2	2.56	0.40
1:F:265:THR:HG23	1:F:266:ARG:H	1.86	0.40
1:F:486:LEU:H	1:F:486:LEU:CD1	2.10	0.40
3:A:22:ILE:H	3:A:22:ILE:HG12	1.64	0.40
3:A:35:VAL:CG2	3:A:233:PHE:HE2	2.34	0.40
3:A:117:VAL:O	3:A:118:ALA:C	2.59	0.40
3:A:320:ILE:HD11	3:A:327:LEU:HD22	2.03	0.40
3:B:87:TYR:HB2	3:B:95:ASN:ND2	2.37	0.40
3:B:168:LEU:HD12	3:B:168:LEU:HA	1.89	0.40
1:H:110:LEU:C	1:H:110:LEU:CD2	2.90	0.40
1:H:295:THR:HG22	1:H:384:MET:CG	2.51	0.40
1:H:387:LEU:HD12	1:H:387:LEU:HA	1.94	0.40
1:H:470:TYR:O	1:H:470:TYR:HD2	2.04	0.40
2:I:160:GLY:O	2:I:163:ILE:HG12	2.22	0.40
3:D:219:LEU:O	3:D:220:GLU:C	2.60	0.40
2:G:4:VAL:O	2:G:5:GLN:CB	2.69	0.40
2:G:82:LEU:CD2	2:G:269:MET:CE	3.00	0.40
2:G:199:PRO:O	2:G:203:PHE:HB2	2.21	0.40
3:A:126:LEU:HD22	3:A:134:LEU:HD23	2.04	0.40
3:A:159:GLU:O	3:A:162:SER:OG	2.39	0.40
3:A:160:PRO:O	3:A:161:LEU:CG	2.70	0.40
3:A:354:LEU:C	3:A:355:PHE:CD1	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:10:THR:CG2	3:B:11:LYS:N	2.84	0.40
3:B:61:PHE:CD2	3:B:65:LYS:O	2.75	0.40
3:B:243:PRO:C	3:B:244:VAL:CG2	2.89	0.40
3:B:281:MET:HB3	3:B:354:LEU:CD1	2.49	0.40
1:H:277:PHE:HZ	1:H:492:THR:HG21	1.86	0.40
1:H:316:VAL:O	1:H:319:VAL:HG23	2.22	0.40
2:I:185:ASP:C	2:I:188:LEU:HD13	2.37	0.40
2:I:187:SER:HA	2:I:190:GLU:OE1	2.21	0.40
2:I:249:MET:HB3	2:I:263:PHE:HE1	1.86	0.40
3:C:80:VAL:CG1	3:C:160:PRO:HG3	2.52	0.40
3:C:182:ARG:HH21	3:C:183:LEU:CD2	2.35	0.40
3:C:314:THR:HG22	3:C:315:GLN:H	1.86	0.40
3:C:351:ARG:HD3	3:C:351:ARG:HA	1.91	0.40
3:D:97:SER:O	3:D:101:LYS:HD3	2.22	0.40
3:D:123:LEU:CD1	3:D:126:LEU:HD12	2.52	0.40

All (31) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:182:ARG:O	3:B:324:ARG:NH1[2_565]	0.90	1.30
3:C:267:TRP:NE1	3:C:267:TRP:NE1[3_555]	1.15	1.05
3:B:340:GLY:O	3:B:340:GLY:O[2_565]	1.19	1.01
3:B:276:GLN:OE1	3:D:274:ASP:N[2_565]	1.26	0.94
3:A:119:GLU:CG	3:A:119:GLU:CD[2_565]	1.27	0.93
3:A:119:GLU:CG	3:A:119:GLU:CG[2_565]	1.28	0.92
3:C:253:GLN:NE2	3:C:265:GLN:NE2[3_555]	1.40	0.80
3:A:182:ARG:O	3:B:324:ARG:CZ[2_565]	1.43	0.77
3:A:119:GLU:OE1	3:A:119:GLU:OE1[2_565]	1.51	0.69
3:B:247:THR:O	3:D:251:ILE:CD1[2_565]	1.56	0.64
3:B:276:GLN:OE1	3:D:274:ASP:CA[2_565]	1.61	0.59
3:A:182:ARG:C	3:B:324:ARG:NH1[2_565]	1.77	0.43
3:A:119:GLU:CD	3:A:119:GLU:CD[2_565]	1.86	0.34
3:C:255:GLN:NE2	3:C:267:TRP:CE2[3_555]	1.88	0.32
3:A:119:GLU:CB	3:A:119:GLU:CD[2_565]	1.90	0.30
3:C:297:ASP:OD2	3:C:297:ASP:OD2[3_555]	1.91	0.29
3:A:119:GLU:CG	3:A:119:GLU:OE2[2_565]	1.92	0.28
3:C:255:GLN:NE2	3:C:267:TRP:NE1[3_555]	1.93	0.27
3:C:253:GLN:NE2	3:C:265:GLN:CD[3_555]	1.99	0.21
3:C:253:GLN:CD	3:C:265:GLN:NE2[3_555]	2.01	0.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:119:GLU:CD	3:A:119:GLU:OE1[2_565]	2.03	0.17
3:C:267:TRP:CD1	3:C:267:TRP:NE1[3_555]	2.04	0.16
3:B:274:ASP:N	3:D:276:GLN:OE1[2_565]	2.05	0.15
3:A:182:ARG:O	3:B:324:ARG:NH2[2_565]	2.07	0.13
3:B:276:GLN:CD	3:D:274:ASP:N[2_565]	2.09	0.11
3:A:119:GLU:CG	3:A:119:GLU:OE1[2_565]	2.10	0.10
3:B:340:GLY:C	3:B:340:GLY:O[2_565]	2.10	0.10
3:A:119:GLU:CB	3:A:119:GLU:OE1[2_565]	2.12	0.08
3:A:119:GLU:CB	3:A:119:GLU:OE2[2_565]	2.13	0.07
3:A:182:ARG:C	3:B:324:ARG:NH2[2_565]	2.14	0.06
3:C:267:TRP:NE1	3:C:267:TRP:CE2[3_555]	2.18	0.02

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	F	310/480 (65%)	209 (67%)	61 (20%)	40 (13%)	0	5
1	H	310/480 (65%)	209 (67%)	61 (20%)	40 (13%)	0	5
2	G	250/296 (84%)	179 (72%)	38 (15%)	33 (13%)	0	4
2	I	250/296 (84%)	179 (72%)	38 (15%)	33 (13%)	0	4
3	A	369/381 (97%)	198 (54%)	97 (26%)	74 (20%)	0	2
3	B	370/381 (97%)	203 (55%)	95 (26%)	72 (20%)	0	2
3	C	369/381 (97%)	198 (54%)	96 (26%)	75 (20%)	0	2
3	D	370/381 (97%)	203 (55%)	95 (26%)	72 (20%)	0	2
All	All	2598/3076 (84%)	1578 (61%)	581 (22%)	439 (17%)	0	3

All (439) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	F	90	ALA

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Mol	Chain	Res	Type
1	F	92	THR
1	F	94	TYR
1	F	96	SER
1	F	98	ASN
1	F	269	THR
1	F	275	LYS
1	F	309	GLU
1	F	357	VAL
1	F	422	LEU
1	F	449	ASN
1	F	509	THR
1	F	512	LYS
2	G	7	LYS
2	G	36	ALA
2	G	38	SER
2	G	74	ILE
2	G	76	PRO
2	G	77	PRO
2	G	78	PRO
2	G	133	ALA
2	G	230	VAL
2	G	285	LEU
3	A	13	TRP
3	A	16	VAL
3	A	83	SER
3	A	102	LEU
3	A	103	ALA
3	A	129	ARG
3	A	152	PRO
3	A	224	TYR
3	A	236	SER
3	A	240	ASN
3	A	246	VAL
3	A	290	LEU
3	A	298	VAL
3	A	310	LEU
3	A	313	GLU
3	A	333	ASP
3	A	335	VAL
3	A	337	VAL
3	A	347	LEU
3	A	352	CYS

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Mol	Chain	Res	Type
3	A	363	ARG
3	A	366	HIS
3	A	371	VAL
3	B	13	TRP
3	B	16	VAL
3	B	52	LEU
3	B	75	ARG
3	B	153	SER
3	B	191	THR
3	B	224	TYR
3	B	236	SER
3	B	246	VAL
3	B	251	ILE
3	B	264	GLN
3	B	280	ASN
3	B	290	LEU
3	B	298	VAL
3	B	333	ASP
3	B	335	VAL
3	B	337	VAL
3	B	347	LEU
3	B	366	HIS
3	B	367	LYS
3	B	372	ALA
1	H	90	ALA
1	H	92	THR
1	H	94	TYR
1	H	96	SER
1	H	98	ASN
1	H	269	THR
1	H	275	LYS
1	H	309	GLU
1	H	357	VAL
1	H	422	LEU
1	H	449	ASN
1	H	509	THR
1	H	512	LYS
2	I	7	LYS
2	I	36	ALA
2	I	38	SER
2	I	74	ILE
2	I	76	PRO

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Mol	Chain	Res	Type
2	I	77	PRO
2	I	78	PRO
2	I	133	ALA
2	I	230	VAL
2	I	285	LEU
3	C	13	TRP
3	C	16	VAL
3	C	83	SER
3	C	102	LEU
3	C	103	ALA
3	C	129	ARG
3	C	152	PRO
3	C	224	TYR
3	C	236	SER
3	C	240	ASN
3	C	246	VAL
3	C	290	LEU
3	C	298	VAL
3	C	310	LEU
3	C	313	GLU
3	C	333	ASP
3	C	335	VAL
3	C	337	VAL
3	C	347	LEU
3	C	352	CYS
3	C	363	ARG
3	C	366	HIS
3	C	371	VAL
3	D	13	TRP
3	D	16	VAL
3	D	52	LEU
3	D	75	ARG
3	D	153	SER
3	D	191	THR
3	D	224	TYR
3	D	236	SER
3	D	246	VAL
3	D	251	ILE
3	D	264	GLN
3	D	280	ASN
3	D	290	LEU
3	D	298	VAL

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Mol	Chain	Res	Type
3	D	333	ASP
3	D	335	VAL
3	D	337	VAL
3	D	347	LEU
3	D	366	HIS
3	D	367	LYS
3	D	372	ALA
1	F	263	ASN
1	F	267	VAL
1	F	271	GLU
1	F	312	ARG
1	F	347	ILE
1	F	417	ILE
1	F	465	ASP
1	F	474	ILE
1	F	480	GLY
1	F	481	GLY
1	F	484	PHE
2	G	37	ILE
2	G	80	PRO
2	G	130	MET
2	G	135	LEU
2	G	152	PRO
2	G	252	TYR
3	A	19	SER
3	A	29	GLY
3	A	63	GLY
3	A	64	GLU
3	A	84	TYR
3	A	104	GLY
3	A	105	ALA
3	A	133	ALA
3	A	153	SER
3	A	191	THR
3	A	193	ASP
3	A	237	PRO
3	A	278	GLY
3	A	295	ILE
3	A	299	ILE
3	A	300	LEU
3	A	307	VAL
3	A	311	GLY

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Mol	Chain	Res	Type
3	A	312	ASN
3	A	318	ILE
3	A	319	GLN
3	A	359	GLY
3	B	3	SER
3	B	64	GLU
3	B	84	TYR
3	B	97	SER
3	B	192	HIS
3	B	193	ASP
3	B	201	ALA
3	B	208	ASP
3	B	244	VAL
3	B	295	ILE
3	B	311	GLY
3	B	312	ASN
3	B	370	GLY
1	H	263	ASN
1	H	267	VAL
1	H	271	GLU
1	H	312	ARG
1	H	347	ILE
1	H	417	ILE
1	H	465	ASP
1	H	474	ILE
1	H	480	GLY
1	H	481	GLY
1	H	484	PHE
2	I	37	ILE
2	I	80	PRO
2	I	130	MET
2	I	135	LEU
2	I	152	PRO
2	I	252	TYR
3	C	19	SER
3	C	29	GLY
3	C	63	GLY
3	C	64	GLU
3	C	84	TYR
3	C	104	GLY
3	C	105	ALA
3	C	133	ALA

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Mol	Chain	Res	Type
3	C	153	SER
3	C	191	THR
3	C	193	ASP
3	C	237	PRO
3	C	278	GLY
3	C	295	ILE
3	C	299	ILE
3	C	300	LEU
3	C	307	VAL
3	C	311	GLY
3	C	312	ASN
3	C	318	ILE
3	C	319	GLN
3	C	359	GLY
3	D	3	SER
3	D	84	TYR
3	D	97	SER
3	D	192	HIS
3	D	193	ASP
3	D	201	ALA
3	D	208	ASP
3	D	244	VAL
3	D	295	ILE
3	D	311	GLY
3	D	312	ASN
3	D	370	GLY
1	F	340	PHE
1	F	344	PHE
1	F	345	GLY
1	F	421	LEU
1	F	455	LEU
1	F	466	LEU
1	F	479	GLY
2	G	40	ARG
2	G	153	PHE
2	G	228	THR
2	G	256	GLN
2	G	259	LEU
3	A	52	LEU
3	A	53	GLU
3	A	126	LEU
3	A	161	LEU

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Mol	Chain	Res	Type
3	A	275	VAL
3	A	331	GLN
3	A	358	ASP
3	A	367	LYS
3	B	83	SER
3	B	161	LEU
3	B	275	VAL
3	B	292	PRO
3	B	308	GLU
3	B	309	GLN
3	B	310	LEU
3	B	313	GLU
3	B	371	VAL
1	H	340	PHE
1	H	344	PHE
1	H	345	GLY
1	H	421	LEU
1	H	455	LEU
1	H	466	LEU
1	H	479	GLY
2	I	40	ARG
2	I	153	PHE
2	I	228	THR
2	I	256	GLN
2	I	259	LEU
3	C	52	LEU
3	C	53	GLU
3	C	126	LEU
3	C	161	LEU
3	C	275	VAL
3	C	331	GLN
3	C	358	ASP
3	C	367	LYS
3	D	64	GLU
3	D	83	SER
3	D	161	LEU
3	D	275	VAL
3	D	292	PRO
3	D	309	GLN
3	D	310	LEU
3	D	313	GLU
3	D	371	VAL

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Mol	Chain	Res	Type
1	F	97	THR
1	F	111	ASP
1	F	311	LEU
1	F	363	SER
1	F	483	ASP
2	G	5	GLN
2	G	28	MET
2	G	151	ILE
2	G	237	LEU
2	G	284	TRP
3	A	197	ALA
3	A	269	PRO
3	B	12	ALA
3	B	104	GLY
3	B	126	LEU
3	B	158	ASP
3	B	300	LEU
3	B	318	ILE
3	B	324	ARG
3	B	358	ASP
1	H	97	THR
1	H	111	ASP
1	H	311	LEU
1	H	363	SER
1	H	483	ASP
2	I	5	GLN
2	I	28	MET
2	I	151	ILE
2	I	237	LEU
2	I	284	TRP
3	C	197	ALA
3	C	269	PRO
3	D	12	ALA
3	D	104	GLY
3	D	126	LEU
3	D	158	ASP
3	D	300	LEU
3	D	308	GLU
3	D	318	ILE
3	D	324	ARG
3	D	358	ASP
1	F	476	PHE

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Mol	Chain	Res	Type
2	G	113	MET
2	G	167	LEU
2	G	168	GLY
3	A	30	GLU
3	A	67	MET
3	A	80	VAL
3	A	281	MET
3	A	362	CYS
3	B	62	ILE
3	B	67	MET
3	B	266	VAL
3	B	322	SER
3	B	329	TYR
3	B	331	GLN
3	B	349	PRO
1	H	476	PHE
2	I	113	MET
2	I	167	LEU
2	I	168	GLY
3	C	30	GLU
3	C	67	MET
3	C	80	VAL
3	C	281	MET
3	C	362	CYS
3	D	62	ILE
3	D	67	MET
3	D	266	VAL
3	D	322	SER
3	D	329	TYR
3	D	331	GLN
3	D	349	PRO
1	F	456	GLY
1	F	460	PRO
2	G	155	GLY
2	G	198	THR
3	A	206	VAL
3	A	254	VAL
3	A	340	GLY
3	A	361	ALA
3	B	17	VAL
3	B	35	VAL
3	B	307	VAL

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Mol	Chain	Res	Type
1	H	456	GLY
1	H	460	PRO
2	I	155	GLY
2	I	198	THR
3	C	12	ALA
3	C	206	VAL
3	C	254	VAL
3	C	340	GLY
3	C	361	ALA
3	D	17	VAL
3	D	35	VAL
3	D	307	VAL
1	F	356	GLY
2	G	27	ILE
3	A	266	VAL
3	B	29	GLY
3	B	256	VAL
3	B	285	ILE
3	B	359	GLY
1	H	356	GLY
2	I	27	ILE
3	C	266	VAL
3	D	29	GLY
3	D	256	VAL
3	D	285	ILE
3	D	359	GLY
3	A	205	VAL
3	A	260	MET
3	A	348	PRO
3	B	204	ILE
3	C	205	VAL
3	C	260	MET
3	C	348	PRO
3	D	204	ILE
2	G	115	PHE
3	A	17	VAL
3	A	18	VAL
3	B	87	TYR
3	B	254	VAL
2	I	115	PHE
3	C	17	VAL
3	C	18	VAL

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Mol	Chain	Res	Type
3	D	87	TYR
3	D	254	VAL
3	A	77	VAL
3	A	212	VAL
3	A	244	VAL
3	B	210	GLY
3	B	368	GLU
3	C	77	VAL
3	C	212	VAL
3	C	244	VAL
3	D	210	GLY
3	D	368	GLU
3	A	195	VAL
3	B	131	PRO
3	B	260	MET
3	C	195	VAL
3	D	131	PRO
3	D	260	MET

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	F	253/394 (64%)	201 (79%)	52 (21%)	1	7
1	H	253/394 (64%)	201 (79%)	52 (21%)	1	7
2	G	198/237 (84%)	166 (84%)	32 (16%)	2	15
2	I	198/237 (84%)	166 (84%)	32 (16%)	2	15
3	A	314/323 (97%)	273 (87%)	41 (13%)	4	20
3	B	315/323 (98%)	276 (88%)	39 (12%)	4	22
3	C	314/323 (97%)	273 (87%)	41 (13%)	4	20
3	D	315/323 (98%)	276 (88%)	39 (12%)	4	22
All	All	2160/2554 (85%)	1832 (85%)	328 (15%)	3	16

All (328) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	F	41	LEU
1	F	51	SER
1	F	55	TYR
1	F	83	LEU
1	F	92	THR
1	F	93	ASN
1	F	98	ASN
1	F	99	GLN
1	F	104	ARG
1	F	271	GLU
1	F	293	PHE
1	F	296	VAL
1	F	304	CYS
1	F	309	GLU
1	F	311	LEU
1	F	314	LYS
1	F	319	VAL
1	F	325	TYR
1	F	330	PHE
1	F	331	ILE
1	F	336	PHE
1	F	342	GLN
1	F	349	MET
1	F	351	LEU
1	F	366	THR
1	F	367	THR
1	F	371	MET
1	F	373	ILE
1	F	374	ILE
1	F	375	VAL
1	F	376	ASN
1	F	377	THR
1	F	381	TYR
1	F	383	TYR
1	F	388	CYS
1	F	391	LEU
1	F	397	ASP
1	F	398	ASP
1	F	399	LEU
1	F	406	ASP
1	F	411	PHE
1	F	423	ILE
1	F	430	MET

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Mol	Chain	Res	Type
1	F	434	PHE
1	F	447	LEU
1	F	453	ASP
1	F	470	TYR
1	F	476	PHE
1	F	477	GLU
1	F	486	LEU
1	F	505	ASN
1	F	513	PHE
2	G	5	GLN
2	G	9	GLN
2	G	18	LEU
2	G	21	LEU
2	G	30	PRO
2	G	31	LEU
2	G	37	ILE
2	G	81	VAL
2	G	83	LEU
2	G	84	TRP
2	G	85	LEU
2	G	104	THR
2	G	110	PHE
2	G	125	MET
2	G	128	PHE
2	G	130	MET
2	G	131	PHE
2	G	147	LEU
2	G	153	PHE
2	G	156	LEU
2	G	172	LEU
2	G	175	TRP
2	G	181	PHE
2	G	199	PRO
2	G	214	ILE
2	G	224	ILE
2	G	227	ILE
2	G	235	LEU
2	G	259	LEU
2	G	272	LEU
2	G	278	PHE
2	G	284	TRP
3	A	16	VAL

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Mol	Chain	Res	Type
3	A	31	PHE
3	A	43	SER
3	A	46	LEU
3	A	60	LEU
3	A	64	GLU
3	A	65	LYS
3	A	69	ASP
3	A	70	THR
3	A	72	PRO
3	A	81	PHE
3	A	82	GLN
3	A	83	SER
3	A	86	LEU
3	A	100	LEU
3	A	101	LYS
3	A	102	LEU
3	A	107	LYS
3	A	116	GLN
3	A	123	LEU
3	A	127	LEU
3	A	147	THR
3	A	162	SER
3	A	176	ILE
3	A	189	TYR
3	A	193	ASP
3	A	194	GLN
3	A	198	MET
3	A	237	PRO
3	A	242	LEU
3	A	244	VAL
3	A	258	LEU
3	A	260	MET
3	A	268	LEU
3	A	273	ARG
3	A	297	ASP
3	A	298	VAL
3	A	332	ASN
3	A	342	THR
3	A	347	LEU
3	A	350	GLU
3	B	25	ASP
3	B	27	HIS

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Mol	Chain	Res	Type
3	B	31	PHE
3	B	34	PHE
3	B	35	VAL
3	B	43	SER
3	B	60	LEU
3	B	61	PHE
3	B	64	GLU
3	B	79	MET
3	B	86	LEU
3	B	127	LEU
3	B	147	THR
3	B	155	PHE
3	B	158	ASP
3	B	188	ILE
3	B	189	TYR
3	B	193	ASP
3	B	194	GLN
3	B	233	PHE
3	B	234	ILE
3	B	236	SER
3	B	242	LEU
3	B	244	VAL
3	B	249	THR
3	B	255	GLN
3	B	257	GLU
3	B	258	LEU
3	B	260	MET
3	B	268	LEU
3	B	297	ASP
3	B	298	VAL
3	B	301	GLU
3	B	307	VAL
3	B	321	PRO
3	B	347	LEU
3	B	350	GLU
3	B	354	LEU
3	B	355	PHE
1	H	41	LEU
1	H	51	SER
1	H	55	TYR
1	H	83	LEU
1	H	92	THR

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Mol	Chain	Res	Type
1	H	93	ASN
1	H	98	ASN
1	H	99	GLN
1	H	104	ARG
1	H	271	GLU
1	H	293	PHE
1	H	296	VAL
1	H	304	CYS
1	H	309	GLU
1	H	311	LEU
1	H	314	LYS
1	H	319	VAL
1	H	325	TYR
1	H	330	PHE
1	H	331	ILE
1	H	336	PHE
1	H	342	GLN
1	H	349	MET
1	H	351	LEU
1	H	366	THR
1	H	367	THR
1	H	371	MET
1	H	373	ILE
1	H	374	ILE
1	H	375	VAL
1	H	376	ASN
1	H	377	THR
1	H	381	TYR
1	H	383	TYR
1	H	388	CYS
1	H	391	LEU
1	H	397	ASP
1	H	398	ASP
1	H	399	LEU
1	H	406	ASP
1	H	411	PHE
1	H	423	ILE
1	H	430	MET
1	H	434	PHE
1	H	447	LEU
1	H	453	ASP
1	H	470	TYR

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Mol	Chain	Res	Type
1	H	476	PHE
1	H	477	GLU
1	H	486	LEU
1	H	505	ASN
1	H	513	PHE
2	I	5	GLN
2	I	9	GLN
2	I	18	LEU
2	I	21	LEU
2	I	30	PRO
2	I	31	LEU
2	I	37	ILE
2	I	81	VAL
2	I	83	LEU
2	I	84	TRP
2	I	85	LEU
2	I	104	THR
2	I	110	PHE
2	I	125	MET
2	I	128	PHE
2	I	130	MET
2	I	131	PHE
2	I	147	LEU
2	I	153	PHE
2	I	156	LEU
2	I	172	LEU
2	I	175	TRP
2	I	181	PHE
2	I	199	PRO
2	I	214	ILE
2	I	224	ILE
2	I	227	ILE
2	I	235	LEU
2	I	259	LEU
2	I	272	LEU
2	I	278	PHE
2	I	284	TRP
3	C	16	VAL
3	C	31	PHE
3	C	43	SER
3	C	46	LEU
3	C	60	LEU

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Mol	Chain	Res	Type
3	C	64	GLU
3	C	65	LYS
3	C	69	ASP
3	C	70	THR
3	C	72	PRO
3	C	81	PHE
3	C	82	GLN
3	C	83	SER
3	C	86	LEU
3	C	100	LEU
3	C	101	LYS
3	C	102	LEU
3	C	107	LYS
3	C	116	GLN
3	C	123	LEU
3	C	127	LEU
3	C	147	THR
3	C	162	SER
3	C	176	ILE
3	C	189	TYR
3	C	193	ASP
3	C	194	GLN
3	C	198	MET
3	C	237	PRO
3	C	242	LEU
3	C	244	VAL
3	C	258	LEU
3	C	260	MET
3	C	268	LEU
3	C	273	ARG
3	C	297	ASP
3	C	298	VAL
3	C	332	ASN
3	C	342	THR
3	C	347	LEU
3	C	350	GLU
3	D	25	ASP
3	D	27	HIS
3	D	31	PHE
3	D	34	PHE
3	D	35	VAL
3	D	43	SER

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Mol	Chain	Res	Type
3	D	60	LEU
3	D	61	PHE
3	D	64	GLU
3	D	79	MET
3	D	86	LEU
3	D	127	LEU
3	D	147	THR
3	D	155	PHE
3	D	158	ASP
3	D	188	ILE
3	D	189	TYR
3	D	193	ASP
3	D	194	GLN
3	D	233	PHE
3	D	234	ILE
3	D	236	SER
3	D	242	LEU
3	D	244	VAL
3	D	249	THR
3	D	255	GLN
3	D	257	GLU
3	D	258	LEU
3	D	260	MET
3	D	268	LEU
3	D	297	ASP
3	D	298	VAL
3	D	301	GLU
3	D	307	VAL
3	D	321	PRO
3	D	347	LEU
3	D	350	GLU
3	D	354	LEU
3	D	355	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (59) such sidechains are listed below:

Mol	Chain	Res	Type
1	F	98	ASN
1	F	99	GLN
1	F	341	ASN
1	F	342	GLN
1	F	376	ASN

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Mol	Chain	Res	Type
1	F	413	ASN
1	F	439	ASN
2	G	17	HIS
2	G	87	ASN
2	G	256	GLN
3	A	23	ASN
3	A	82	GLN
3	A	95	ASN
3	A	192	HIS
3	A	240	ASN
3	A	253	GLN
3	A	305	GLN
3	A	315	GLN
3	A	366	HIS
3	B	82	GLN
3	B	89	HIS
3	B	111	ASN
3	B	194	GLN
3	B	223	HIS
3	B	253	GLN
3	B	255	GLN
3	B	264	GLN
3	B	276	GLN
3	B	309	GLN
3	B	315	GLN
3	B	331	GLN
1	H	98	ASN
1	H	99	GLN
1	H	341	ASN
1	H	342	GLN
1	H	376	ASN
1	H	413	ASN
2	I	17	HIS
2	I	87	ASN
2	I	256	GLN
3	C	23	ASN
3	C	82	GLN
3	C	95	ASN
3	C	192	HIS
3	C	240	ASN
3	C	253	GLN
3	C	305	GLN

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Mol	Chain	Res	Type
3	C	315	GLN
3	C	366	HIS
3	D	82	GLN
3	D	89	HIS
3	D	111	ASN
3	D	253	GLN
3	D	255	GLN
3	D	264	GLN
3	D	276	GLN
3	D	309	GLN
3	D	315	GLN
3	D	331	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	F	316/480 (65%)	-0.31	3 (0%) 84 77	187, 310, 422, 493	0
1	H	316/480 (65%)	0.04	19 (6%) 21 18	187, 310, 422, 493	0
2	G	254/296 (85%)	-0.19	5 (1%) 65 56	204, 296, 401, 510	0
2	I	254/296 (85%)	-0.29	5 (1%) 65 56	204, 296, 401, 510	0
3	A	371/381 (97%)	-0.08	8 (2%) 62 52	195, 296, 384, 474	0
3	B	372/381 (97%)	-0.06	11 (2%) 50 39	150, 281, 361, 454	0
3	C	371/381 (97%)	0.15	22 (5%) 22 19	195, 296, 384, 474	0
3	D	372/381 (97%)	-0.15	7 (1%) 66 58	150, 281, 361, 454	0
All	All	2626/3076 (85%)	-0.10	80 (3%) 50 39	150, 294, 398, 510	0

All (80) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	C	280	ASN	6.5
1	H	56	ILE	6.2
1	H	483	ASP	5.7
3	C	281	MET	5.5
3	C	244	VAL	5.4
1	H	407	GLY	5.2
2	I	132	PRO	5.0
3	C	53	GLU	4.7
3	C	271	GLU	4.4
3	C	52	LEU	4.4
2	I	6	PRO	4.0
1	H	92	THR	3.9
1	H	513	PHE	3.9
1	H	112	ARG	3.8
3	A	372	ALA	3.7
3	B	163	ASN	3.6

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Mol	Chain	Res	Type	RSRZ
3	D	96	MET	3.5
3	C	279	ALA	3.5
3	A	18	VAL	3.5
1	H	53	GLY	3.5
1	H	481	GLY	3.4
3	B	77	VAL	3.3
1	H	447	LEU	3.1
1	H	93	ASN	3.0
1	H	408	ALA	3.0
2	G	132	PRO	3.0
3	C	249	THR	2.9
3	C	243	PRO	2.9
3	C	295	ILE	2.9
3	D	210	GLY	2.9
3	B	340	GLY	2.9
1	F	42	PHE	2.9
1	H	355	PHE	2.9
3	B	76	GLY	2.9
3	D	290	LEU	2.8
2	I	5	GLN	2.8
1	H	113	SER	2.8
3	C	18	VAL	2.8
1	H	482	GLN	2.7
3	A	274	ASP	2.7
2	I	76	PRO	2.6
3	C	246	VAL	2.6
2	G	200	TRP	2.6
3	C	324	ARG	2.6
3	B	158	ASP	2.6
2	G	199	PRO	2.5
3	C	296	ALA	2.5
3	A	209	ALA	2.5
1	H	95	SER	2.5
3	C	163	ASN	2.5
3	C	79	MET	2.5
3	B	129	ARG	2.4
3	B	126	LEU	2.4
3	A	163	ASN	2.4
3	D	158	ASP	2.4
3	C	210	GLY	2.4
3	D	19	SER	2.4
3	B	164	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
3	A	245	LYS	2.3
3	C	248	ALA	2.3
1	H	49	LEU	2.3
1	H	514	ASP	2.3
2	I	200	TRP	2.3
3	A	243	PRO	2.3
1	H	354	LEU	2.3
3	B	89	HIS	2.2
3	B	365	LEU	2.2
3	D	77	VAL	2.2
3	D	92	VAL	2.1
2	G	287	ASN	2.1
1	H	272	GLY	2.1
2	G	196	GLY	2.1
3	A	322	SER	2.1
3	C	297	ASP	2.1
3	B	271	GLU	2.1
3	C	231	ALA	2.1
3	C	19	SER	2.0
1	F	475	ALA	2.0
1	F	94	TYR	2.0
3	C	320	ILE	2.0

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

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

6.3 Carbohydrates [\(i\)](#)

There are no monosaccharides in this entry.

6.4 Ligands [\(i\)](#)

There are no ligands in this entry.

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.