



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 8, 2016 – 04:21 PM EDT

PDB ID : 5L5L
Title : Plexin A4 full extracellular region, domains 1 to 8 modeled, data to 8 angstrom, spacegroup P2(1)
Authors : Janssen, B.J.C.; Kong, Y.; Malinauskas, T.; Vangoor, V.R.; Coles, C.H.; Kaufmann, R.; Ni, T.; Gilbert, R.J.C.; Padilla-Parra, S.; Pasterkamp, R.J.; Jones, E.Y.
Deposited on : 2016-05-28
Resolution : 8.00 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity	:	4.02b-467
Mogul	:	unknown
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20027939
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	rb-20027939

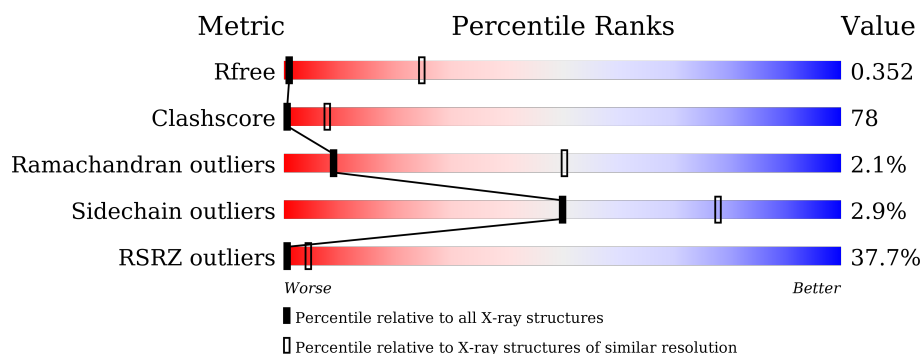
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 8.00 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1015 (11.50-3.66)
Clashscore	102246	1064 (11.50-3.70)
Ramachandran outliers	100387	1036 (11.50-3.66)
Sidechain outliers	100360	1006 (11.50-3.66)
RSRZ outliers	91569	1014 (11.50-3.66)

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

Mol	Chain	Length	Quality of chain
1	A	1207	<div> <div>33%</div> <div> <div>27%</div> <div>52%</div> <div>17%</div> </div> </div>
1	B	1207	<div> <div>27%</div> <div>25%</div> <div>47%</div> <div>24%</div> </div>

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 15030 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 Plexin-A4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1000	Total	C	N	O	S	0	0	0
			7841	4938	1356	1482	65			
1	B	915	Total	C	N	O	S	0	0	0
			7189	4533	1239	1357	60			

There are 26 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	33	GLU	-	expression tag	UNP Q80UG2
A	34	THR	-	expression tag	UNP Q80UG2
A	35	GLY	-	expression tag	UNP Q80UG2
A	1230	GLY	-	expression tag	UNP Q80UG2
A	1231	ARG	-	expression tag	UNP Q80UG2
A	1232	THR	-	expression tag	UNP Q80UG2
A	1233	LYS	-	expression tag	UNP Q80UG2
A	1234	HIS	-	expression tag	UNP Q80UG2
A	1235	HIS	-	expression tag	UNP Q80UG2
A	1236	HIS	-	expression tag	UNP Q80UG2
A	1237	HIS	-	expression tag	UNP Q80UG2
A	1238	HIS	-	expression tag	UNP Q80UG2
A	1239	HIS	-	expression tag	UNP Q80UG2
B	33	GLU	-	expression tag	UNP Q80UG2
B	34	THR	-	expression tag	UNP Q80UG2
B	35	GLY	-	expression tag	UNP Q80UG2
B	1230	GLY	-	expression tag	UNP Q80UG2
B	1231	ARG	-	expression tag	UNP Q80UG2
B	1232	THR	-	expression tag	UNP Q80UG2
B	1233	LYS	-	expression tag	UNP Q80UG2
B	1234	HIS	-	expression tag	UNP Q80UG2
B	1235	HIS	-	expression tag	UNP Q80UG2
B	1236	HIS	-	expression tag	UNP Q80UG2
B	1237	HIS	-	expression tag	UNP Q80UG2
B	1238	HIS	-	expression tag	UNP Q80UG2

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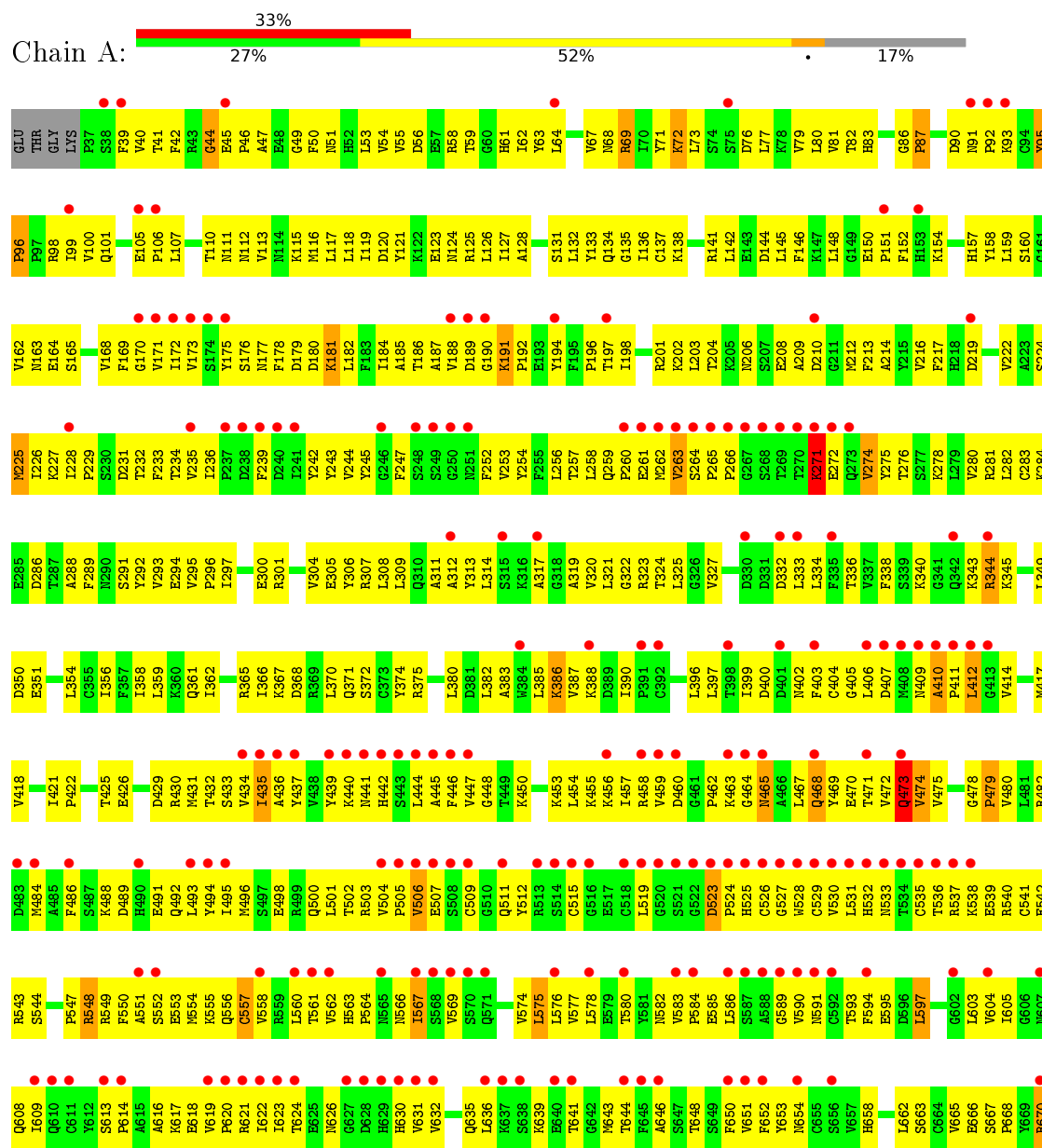
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Chain	Residue	Modelled	Actual	Comment	Reference
B	1239	HIS	-	expression tag	UNP Q80UG2

3 Residue-property plots

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

• Molecule 1: Plexin-A4



WORLDWIDE
PDB
PROTEIN DATA BANK

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	142.18Å 241.00Å 144.07Å 90.00° 99.83° 90.00°	Depositor
Resolution (Å)	47.74 – 8.00 47.74 – 8.00	Depositor EDS
% Data completeness (in resolution range)	99.1 (47.74-8.00) 99.5 (47.74-8.00)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.18 (at 8.32Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.2_1309)	Depositor
R, R_{free}	0.349 , 0.349 0.344 , 0.352	Depositor DCC
R_{free} test set	488 reflections (4.86%)	DCC
Wilson B-factor (Å ²)	450.9	Xtriage
Anisotropy	0.543	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 548.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.25$	Xtriage
Estimated twinning fraction	0.043 for l,-k,h	Xtriage
F_o, F_c correlation	0.70	EDS
Total number of atoms	15030	wwPDB-VP
Average B, all atoms (Å ²)	264.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.04% 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

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	1.01	5/8007 (0.1%)	1.36	27/10846 (0.2%)
1	B	1.00	5/7344 (0.1%)	1.32	24/9943 (0.2%)
All	All	1.01	10/15351 (0.1%)	1.34	51/20789 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3
1	B	0	4
All	All	0	7

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	506	VAL	C-N	23.13	1.87	1.34
1	B	506	VAL	C-N	21.10	1.82	1.34
1	A	557	CYS	C-N	-20.82	0.86	1.34
1	B	557	CYS	C-N	-17.13	0.94	1.34
1	A	700	CYS	C-N	-15.63	1.04	1.34
1	B	700	CYS	C-N	15.54	1.63	1.34
1	B	49	GLY	CA-C	6.43	1.62	1.51
1	A	49	GLY	CA-C	6.42	1.62	1.51
1	A	49	GLY	C-N	5.06	1.45	1.34
1	B	49	GLY	C-N	5.05	1.45	1.34

All (51) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	747	GLN	CG-CD-OE1	-38.83	43.94	121.60
1	A	747	GLN	CG-CD-OE1	-38.81	43.98	121.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	653	TYR	O-C-N	-33.42	69.23	122.70
1	B	557	CYS	O-C-N	-31.89	71.68	122.70
1	A	653	TYR	CA-C-N	23.37	168.61	117.20
1	A	854	CYS	O-C-N	-23.21	85.56	122.70
1	A	557	CYS	O-C-N	18.53	152.35	122.70
1	B	557	CYS	CA-C-N	17.95	156.70	117.20
1	B	700	CYS	C-N-CD	-17.94	81.14	120.60
1	A	557	CYS	CA-C-N	-17.52	78.65	117.20
1	B	506	VAL	O-C-N	17.20	150.23	122.70
1	A	854	CYS	C-N-CA	16.73	163.51	121.70
1	A	653	TYR	C-N-CA	16.67	163.37	121.70
1	B	506	VAL	CA-C-N	-16.51	80.87	117.20
1	B	506	VAL	C-N-CA	-14.85	84.57	121.70
1	A	506	VAL	O-C-N	-14.82	98.98	122.70
1	A	854	CYS	CA-C-N	13.98	147.96	117.20
1	A	557	CYS	C-N-CA	-13.97	86.77	121.70
1	B	557	CYS	C-N-CA	11.36	150.09	121.70
1	B	747	GLN	CG-CD-NE2	-9.58	93.70	116.70
1	A	747	GLN	CG-CD-NE2	-9.56	93.76	116.70
1	A	700	CYS	O-C-N	-8.60	104.76	121.10
1	A	479	PRO	N-CA-C	8.18	133.37	112.10
1	B	479	PRO	N-CA-C	8.16	133.31	112.10
1	A	843	ARG	C-N-CA	7.76	141.10	121.70
1	B	843	ARG	C-N-CA	7.75	141.07	121.70
1	A	747	GLN	OE1-CD-NE2	6.89	137.74	121.90
1	A	478	GLY	CA-C-O	-6.87	108.23	120.60
1	B	478	GLY	CA-C-O	-6.85	108.27	120.60
1	B	747	GLN	OE1-CD-NE2	6.84	137.63	121.90
1	B	473	GLN	C-N-CA	-6.70	104.95	121.70
1	A	473	GLN	C-N-CA	-6.69	104.97	121.70
1	B	892	HIS	CA-CB-CG	6.59	124.81	113.60
1	A	892	HIS	CA-CB-CG	6.57	124.77	113.60
1	B	700	CYS	CA-C-N	-6.33	99.38	117.10
1	A	225	MET	CG-SD-CE	-5.72	91.05	100.20
1	B	225	MET	CG-SD-CE	-5.71	91.06	100.20
1	A	409	ASN	C-N-CA	5.67	135.87	121.70
1	B	409	ASN	C-N-CA	5.66	135.85	121.70
1	A	49	GLY	C-N-CA	5.62	135.74	121.70
1	B	49	GLY	C-N-CA	5.57	135.63	121.70
1	B	700	CYS	O-C-N	-5.55	110.55	121.10
1	A	700	CYS	CA-C-N	5.48	132.43	117.10
1	B	274	VAL	CG1-CB-CG2	5.47	119.65	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	274	VAL	CG1-CB-CG2	5.45	119.61	110.90
1	B	919	GLU	C-N-CA	5.27	134.88	121.70
1	A	919	GLU	C-N-CA	5.24	134.81	121.70
1	B	676	TYR	CA-CB-CG	-5.12	103.67	113.40
1	A	676	TYR	CA-CB-CG	-5.11	103.70	113.40
1	A	803	CYS	C-N-CA	5.09	132.98	122.30
1	B	803	CYS	C-N-CA	5.08	132.96	122.30

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	854	CYS	Mainchain
1	A	863	ILE	Peptide
1	A	95	TYR	Peptide
1	B	557	CYS	Mainchain
1	B	700	CYS	Mainchain
1	B	863	ILE	Peptide
1	B	95	TYR	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7841	0	7710	1244	29
1	B	7189	0	7050	1075	59
All	All	15030	0	14760	2319	61

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 78.

All (2319) 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:A:868:PRO:HD2	1:A:981:GLY:CA	1.32	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:868:PRO:CD	1:A:981:GLY:CA	1.87	1.50
1:A:873:THR:CA	1:A:982:SER:HB2	1.46	1.43
1:A:873:THR:HA	1:A:982:SER:CB	1.48	1.40
1:B:506:VAL:HG22	1:B:525:HIS:NE2	1.33	1.38
1:B:629:HIS:CE1	1:B:669:TYR:OH	1.76	1.37
1:B:629:HIS:ND1	1:B:669:TYR:OH	1.56	1.34
1:A:870:GLU:CD	1:A:1025:ALA:HB2	1.46	1.33
1:A:868:PRO:HD3	1:A:981:GLY:N	1.06	1.33
1:B:506:VAL:N	1:B:507:GLU:N	1.77	1.29
1:B:506:VAL:C	1:B:507:GLU:N	1.82	1.28
1:A:868:PRO:CD	1:A:981:GLY:N	1.88	1.27
1:A:506:VAL:C	1:A:507:GLU:N	1.87	1.26
1:B:700:CYS:O	1:B:725:ASN:HB2	1.38	1.23
1:A:870:GLU:HB3	1:A:1024:ARG:CG	1.70	1.22
1:B:809:SER:CB	1:B:881:ASN:OD1	1.89	1.19
1:B:809:SER:HB2	1:B:881:ASN:CG	1.62	1.18
1:A:569:VAL:CG2	1:A:654:ASN:HB2	1.71	1.18
1:A:867:GLY:HA2	1:A:981:GLY:N	1.59	1.17
1:A:359:LEU:HD12	1:A:362:ILE:HD11	1.24	1.17
1:B:118:LEU:HD12	1:B:172:ILE:HD12	1.17	1.17
1:B:456:LYS:HD2	1:B:523:ASP:OD2	1.44	1.17
1:A:868:PRO:HD3	1:A:980:ALA:C	1.63	1.17
1:B:676:TYR:CE1	1:B:730:GLN:HG2	1.80	1.15
1:B:295:VAL:HG12	1:B:414:VAL:HG11	1.27	1.14
1:B:802:LYS:C	1:B:803:CYS:N	2.01	1.14
1:A:453:LYS:HG2	1:A:472:VAL:HG22	1.25	1.14
1:B:359:LEU:HD12	1:B:362:ILE:HD11	1.24	1.14
1:B:506:VAL:CG2	1:B:525:HIS:NE2	2.11	1.14
1:A:324:THR:HB	1:A:462:PRO:HB3	1.27	1.13
1:A:458:ARG:HD2	1:A:524:PRO:HB3	1.31	1.12
1:A:118:LEU:HD12	1:A:172:ILE:HD12	1.17	1.12
1:A:435:ILE:HG22	1:A:446:PHE:HB2	1.22	1.12
1:A:295:VAL:HG12	1:A:414:VAL:HG11	1.27	1.12
1:B:453:LYS:HG2	1:B:472:VAL:HG22	1.25	1.12
1:B:809:SER:HB2	1:B:881:ASN:OD1	0.95	1.11
1:B:435:ILE:HG22	1:B:446:PHE:HB2	1.22	1.11
1:A:533:ASN:ND2	1:A:644:THR:O	1.83	1.11
1:A:595:GLU:HB2	1:A:597:LEU:HD23	1.32	1.11
1:B:676:TYR:CD1	1:B:730:GLN:CG	2.33	1.11
1:B:469:TYR:HB2	1:B:523:ASP:OD1	1.50	1.10
1:B:595:GLU:HB2	1:B:597:LEU:HD23	1.32	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:806:MET:H	1:A:806:MET:HE3	1.14	1.10
1:B:324:THR:HB	1:B:462:PRO:HB3	1.27	1.09
1:B:806:MET:HE3	1:B:806:MET:H	1.14	1.09
1:A:868:PRO:CD	1:A:981:GLY:HA3	1.61	1.09
1:A:871:GLY:O	1:A:1023:ASP:CB	2.00	1.09
1:B:444:LEU:HD23	1:B:524:PRO:CG	1.83	1.08
1:A:1017:LYS:HE2	1:A:1017:LYS:H	1.18	1.08
1:B:676:TYR:CE1	1:B:730:GLN:CG	2.37	1.08
1:A:868:PRO:HD2	1:A:981:GLY:HA2	1.17	1.08
1:A:474:VAL:HG12	1:A:475:VAL:HG23	1.33	1.08
1:B:468:GLN:HG3	1:B:523:ASP:HA	1.16	1.07
1:B:469:TYR:CB	1:B:523:ASP:OD1	2.02	1.07
1:B:506:VAL:C	1:B:507:GLU:CA	2.21	1.07
1:A:870:GLU:CB	1:A:1024:ARG:HG2	1.84	1.07
1:B:474:VAL:HG12	1:B:475:VAL:HG23	1.33	1.07
1:A:549:ARG:HD3	1:A:584:PRO:CB	1.84	1.06
1:A:440:LYS:HB2	1:A:538:LYS:NZ	1.68	1.06
1:A:439:TYR:CE2	1:A:538:LYS:NZ	2.23	1.05
1:B:506:VAL:CA	1:B:507:GLU:N	2.17	1.05
1:B:676:TYR:CD1	1:B:730:GLN:HG3	1.91	1.05
1:A:569:VAL:HG21	1:A:654:ASN:HB2	1.32	1.04
1:B:506:VAL:HG22	1:B:525:HIS:CE1	1.92	1.04
1:B:444:LEU:HD23	1:B:524:PRO:HG3	1.37	1.03
1:B:494:TYR:HB3	1:B:501:LEU:HD21	1.40	1.03
1:B:301:ARG:HD2	1:B:425:THR:HG21	1.37	1.03
1:B:620:PRO:HA	1:B:623:ILE:HG13	1.41	1.03
1:A:46:PRO:HG2	1:A:69:ARG:HG3	1.41	1.02
1:A:301:ARG:HD2	1:A:425:THR:HG21	1.37	1.02
1:A:560:LEU:HD23	1:A:648:THR:HG23	1.37	1.02
1:A:440:LYS:HD2	1:A:538:LYS:HD3	1.37	1.02
1:A:871:GLY:O	1:A:1023:ASP:CG	1.98	1.01
1:A:620:PRO:HA	1:A:623:ILE:HG13	1.41	1.01
1:A:867:GLY:CA	1:A:981:GLY:H	1.72	1.01
1:A:494:TYR:HB3	1:A:501:LEU:HD21	1.40	1.01
1:B:676:TYR:CD1	1:B:730:GLN:HG2	1.94	1.00
1:B:560:LEU:HD23	1:B:648:THR:HG23	1.37	1.00
1:B:46:PRO:HG2	1:B:69:ARG:HG3	1.41	1.00
1:A:873:THR:OG1	1:A:981:GLY:HA2	1.60	0.99
1:B:117:LEU:HD11	1:B:126:LEU:HD21	1.45	0.99
1:A:117:LEU:HD11	1:A:126:LEU:HD21	1.45	0.99
1:A:870:GLU:CB	1:A:1024:ARG:CG	2.40	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:623:ILE:HA	1:B:626:ASN:HD21	1.28	0.99
1:A:868:PRO:HD3	1:A:981:GLY:CA	1.73	0.99
1:A:870:GLU:HB3	1:A:1024:ARG:HG2	1.01	0.99
1:A:458:ARG:HD2	1:A:524:PRO:CB	1.92	0.98
1:B:548:ARG:HG3	1:B:583:VAL:C	1.84	0.98
1:B:444:LEU:HD12	1:B:446:PHE:CE1	1.98	0.98
1:B:862:ILE:HG22	1:B:877:ILE:HA	1.46	0.98
1:A:870:GLU:CD	1:A:1025:ALA:CB	2.33	0.97
1:A:444:LEU:HD12	1:A:446:PHE:CE1	1.98	0.97
1:A:870:GLU:OE1	1:A:1025:ALA:HB2	1.62	0.97
1:A:563:HIS:HB3	1:A:564:PRO:HD3	1.44	0.97
1:B:563:HIS:HB3	1:B:564:PRO:HD3	1.44	0.97
1:A:623:ILE:HA	1:A:626:ASN:HD21	1.28	0.96
1:A:862:ILE:HG22	1:A:877:ILE:HA	1.46	0.96
1:B:662:LEU:HD23	1:B:791:ASP:OD2	1.65	0.96
1:B:566:ASN:HA	1:B:651:VAL:HG23	1.49	0.95
1:B:458:ARG:HD2	1:B:524:PRO:HB3	1.45	0.95
1:B:629:HIS:CG	1:B:669:TYR:OH	2.15	0.95
1:A:566:ASN:HA	1:A:651:VAL:HG23	1.49	0.95
1:B:506:VAL:C	1:B:507:GLU:HA	1.84	0.95
1:A:440:LYS:HB2	1:A:538:LYS:HZ2	1.27	0.94
1:B:505:PRO:C	1:B:507:GLU:N	2.19	0.94
1:A:42:PHE:HE1	1:A:79:VAL:HG22	1.31	0.94
1:A:870:GLU:OE2	1:A:1025:ALA:HB2	1.65	0.94
1:A:868:PRO:HD2	1:A:981:GLY:HA3	1.16	0.94
1:A:994:LEU:HD11	1:A:1006:ASN:HD22	1.31	0.94
1:A:72:LYS:HE3	1:A:80:LEU:HD13	1.49	0.94
1:A:871:GLY:O	1:A:1023:ASP:HB3	1.68	0.93
1:B:62:ILE:CG1	1:B:73:LEU:HB2	1.98	0.93
1:B:42:PHE:HE1	1:B:79:VAL:HG22	1.31	0.93
1:A:297:ILE:HG22	1:A:418:VAL:CG1	1.97	0.93
1:A:870:GLU:CG	1:A:1024:ARG:HG3	1.97	0.93
1:B:456:LYS:CD	1:B:523:ASP:OD2	2.15	0.93
1:B:297:ILE:HG22	1:B:418:VAL:HG12	1.49	0.93
1:B:804:GLY:HA2	1:B:806:MET:SD	2.09	0.93
1:A:62:ILE:CG1	1:A:73:LEU:HB2	1.98	0.93
1:A:440:LYS:HD2	1:A:538:LYS:CD	1.98	0.93
1:A:804:GLY:HA2	1:A:806:MET:SD	2.09	0.93
1:B:297:ILE:HG22	1:B:418:VAL:CG1	1.97	0.93
1:B:865:VAL:HG13	1:B:866:THR:HG23	1.50	0.93
1:A:297:ILE:HG22	1:A:418:VAL:HG12	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:863:ILE:HG22	1:B:876:THR:HB	1.48	0.92
1:A:863:ILE:HG22	1:A:876:THR:HB	1.48	0.92
1:A:39:PHE:CE2	1:A:473:GLN:HG3	2.05	0.92
1:B:72:LYS:HE3	1:B:80:LEU:HD13	1.49	0.92
1:B:271:LYS:HG3	1:B:272:GLU:H	1.34	0.92
1:A:435:ILE:HD13	1:A:436:ALA:H	1.34	0.92
1:B:527:GLY:HA3	1:B:550:PHE:CZ	2.04	0.92
1:A:239:PHE:HA	1:A:260:PRO:HG2	1.51	0.92
1:A:865:VAL:HG13	1:A:866:THR:HG23	1.50	0.92
1:B:39:PHE:CE2	1:B:473:GLN:HG3	2.05	0.92
1:A:933:VAL:HG23	1:A:934:ALA:H	1.35	0.91
1:B:239:PHE:HA	1:B:260:PRO:HG2	1.51	0.91
1:A:870:GLU:HG2	1:A:1024:ARG:C	1.91	0.91
1:B:806:MET:SD	1:B:807:ARG:HG3	2.11	0.91
1:B:435:ILE:HD13	1:B:436:ALA:H	1.34	0.91
1:A:806:MET:SD	1:A:807:ARG:HG3	2.11	0.91
1:A:527:GLY:HA3	1:A:550:PHE:CZ	2.05	0.90
1:A:447:VAL:HG22	1:A:455:LYS:HB2	1.53	0.90
1:A:549:ARG:HD3	1:A:584:PRO:HB2	1.53	0.90
1:B:933:VAL:HG23	1:B:934:ALA:H	1.36	0.90
1:A:271:LYS:HG3	1:A:272:GLU:H	1.34	0.90
1:A:359:LEU:CD1	1:A:362:ILE:HD11	2.02	0.89
1:A:447:VAL:CG2	1:A:455:LYS:HB2	2.03	0.89
1:A:972:THR:HG23	1:A:1002:TYR:CE1	2.07	0.89
1:A:873:THR:C	1:A:982:SER:HB2	1.91	0.89
1:B:653:TYR:HE2	1:B:682:HIS:ND1	1.69	0.89
1:A:453:LYS:CG	1:A:472:VAL:HG22	2.03	0.88
1:B:447:VAL:CG2	1:B:455:LYS:HB2	2.03	0.88
1:B:453:LYS:CG	1:B:472:VAL:HG22	2.03	0.88
1:B:95:TYR:CD2	1:B:96:PRO:HD3	2.08	0.88
1:B:447:VAL:HG22	1:B:455:LYS:HB2	1.53	0.88
1:B:802:LYS:O	1:B:803:CYS:N	2.06	0.88
1:B:181:LYS:CD	1:B:202:LYS:HA	2.04	0.88
1:A:870:GLU:OE2	1:A:1025:ALA:CB	2.22	0.88
1:B:359:LEU:CD1	1:B:362:ILE:HD11	2.02	0.88
1:A:863:ILE:HG23	1:A:864:PRO:HD2	1.55	0.88
1:B:892:HIS:HB2	1:B:932:CYS:O	1.74	0.88
1:A:446:PHE:HD2	1:A:454:LEU:HD21	1.38	0.87
1:B:847:LEU:HG	1:B:850:ALA:H	1.39	0.87
1:B:486:PHE:CD1	1:B:493:LEU:HD13	2.09	0.87
1:A:532:HIS:HA	1:A:641:THR:OG1	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:892:HIS:HB2	1:A:932:CYS:O	1.73	0.87
1:A:95:TYR:CD2	1:A:96:PRO:HD3	2.08	0.87
1:A:867:GLY:HA2	1:A:981:GLY:H	0.77	0.87
1:A:486:PHE:CD1	1:A:493:LEU:HD13	2.09	0.87
1:B:468:GLN:HG3	1:B:523:ASP:CA	2.03	0.87
1:B:863:ILE:HG23	1:B:864:PRO:HD2	1.56	0.86
1:B:110:THR:CG2	1:B:132:LEU:HD21	2.05	0.86
1:B:439:TYR:CE2	1:B:538:LYS:NZ	2.42	0.86
1:A:39:PHE:CE1	1:A:505:PRO:HD2	2.10	0.86
1:A:959:LYS:HB2	1:A:972:THR:HB	1.57	0.86
1:A:110:THR:CG2	1:A:132:LEU:HD21	2.05	0.86
1:A:181:LYS:CD	1:A:202:LYS:HA	2.04	0.86
1:A:833:LEU:HB2	1:A:836:HIS:HD2	1.39	0.86
1:B:446:PHE:HD2	1:B:454:LEU:HD21	1.38	0.86
1:B:603:LEU:HD23	1:B:604:VAL:N	1.90	0.86
1:B:699:ASP:HA	1:B:725:ASN:OD1	1.74	0.86
1:A:370:LEU:CD1	1:A:399:ILE:HD12	2.06	0.86
1:B:256:LEU:HB3	1:B:309:LEU:HD22	1.56	0.86
1:B:435:ILE:CG2	1:B:446:PHE:HB2	2.06	0.86
1:B:833:LEU:HB2	1:B:836:HIS:HD2	1.39	0.86
1:B:295:VAL:HA	1:B:414:VAL:CG2	2.05	0.86
1:A:118:LEU:HD13	1:A:119:ILE:N	1.91	0.86
1:A:295:VAL:HA	1:A:414:VAL:CG2	2.05	0.86
1:B:100:VAL:HG12	1:B:101:GLN:HG3	1.58	0.86
1:B:473:GLN:CG	1:B:504:VAL:HG22	2.06	0.86
1:B:700:CYS:HB3	1:B:701:PRO:CD	1.92	0.86
1:B:847:LEU:HD12	1:B:852:SER:HB3	1.58	0.86
1:A:603:LEU:HD23	1:A:604:VAL:N	1.90	0.85
1:B:370:LEU:CD1	1:B:399:ILE:HD12	2.05	0.85
1:B:531:LEU:O	1:B:641:THR:OG1	1.94	0.85
1:B:847:LEU:HD11	1:B:850:ALA:HA	1.58	0.85
1:A:100:VAL:HG12	1:A:101:GLN:HG3	1.58	0.85
1:B:676:TYR:HE1	1:B:730:GLN:HG2	1.41	0.85
1:B:133:TYR:CG	1:B:136:ILE:HG12	2.12	0.85
1:A:882:LEU:HB2	1:A:910:ALA:HA	1.58	0.85
1:A:847:LEU:HD12	1:A:852:SER:HB3	1.58	0.85
1:A:133:TYR:CG	1:A:136:ILE:HG12	2.12	0.85
1:A:706:VAL:HG22	1:A:707:ASP:H	1.42	0.85
1:A:473:GLN:CG	1:A:504:VAL:HG22	2.06	0.85
1:A:42:PHE:CZ	1:A:45:GLU:HB2	2.12	0.84
1:A:847:LEU:HG	1:A:850:ALA:H	1.39	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:118:LEU:HD13	1:B:119:ILE:N	1.91	0.84
1:B:39:PHE:CE1	1:B:505:PRO:HD2	2.11	0.84
1:A:256:LEU:HB3	1:A:309:LEU:HD22	1.56	0.84
1:B:548:ARG:HG3	1:B:583:VAL:O	1.77	0.84
1:A:989:GLY:HA2	1:A:1017:LYS:HE3	1.57	0.84
1:B:42:PHE:CZ	1:B:45:GLU:HB2	2.12	0.84
1:B:356:ILE:CG2	1:B:421:ILE:HB	2.07	0.84
1:B:295:VAL:CG1	1:B:414:VAL:HG11	2.07	0.84
1:B:50:PHE:HB2	1:B:498:GLU:O	1.78	0.84
1:B:40:VAL:CG1	1:B:503:ARG:HB3	2.08	0.84
1:B:653:TYR:C	1:B:654:ASN:N	2.31	0.83
1:A:40:VAL:CG1	1:A:503:ARG:HB3	2.08	0.83
1:B:295:VAL:HA	1:B:414:VAL:HG22	1.60	0.83
1:A:229:PRO:O	1:A:232:THR:HG22	1.79	0.83
1:A:356:ILE:CG2	1:A:421:ILE:HB	2.07	0.83
1:A:971:VAL:HG22	1:A:1005:CYS:O	1.78	0.83
1:A:336:THR:O	1:A:354:LEU:HD12	1.78	0.83
1:A:863:ILE:CG2	1:A:876:THR:HB	2.07	0.83
1:B:706:VAL:HG22	1:B:707:ASP:H	1.42	0.83
1:A:118:LEU:HD12	1:A:172:ILE:CD1	2.05	0.83
1:B:830:GLN:HG2	1:B:831:CYS:H	1.43	0.83
1:B:474:VAL:HG22	1:B:495:ILE:HG21	1.61	0.83
1:B:118:LEU:HD12	1:B:172:ILE:CD1	2.05	0.83
1:B:336:THR:O	1:B:354:LEU:HD12	1.78	0.83
1:B:358:ILE:HG23	1:B:361:GLN:H	1.44	0.83
1:A:996:HIS:HB3	1:A:1004:ILE:HG23	1.59	0.83
1:A:397:LEU:HD23	1:A:399:ILE:HD13	1.61	0.83
1:A:42:PHE:CE1	1:A:79:VAL:HG22	2.14	0.83
1:A:847:LEU:HD11	1:A:850:ALA:HA	1.58	0.83
1:B:229:PRO:O	1:B:232:THR:HG22	1.79	0.83
1:A:295:VAL:CG1	1:A:414:VAL:HG11	2.07	0.83
1:B:133:TYR:CB	1:B:136:ILE:HG12	2.09	0.83
1:A:474:VAL:HG22	1:A:495:ILE:HG21	1.61	0.82
1:A:440:LYS:CD	1:A:538:LYS:HD3	2.08	0.82
1:B:397:LEU:HD23	1:B:399:ILE:HD13	1.61	0.82
1:B:53:LEU:HD23	1:B:54:VAL:N	1.94	0.82
1:A:358:ILE:HG23	1:A:361:GLN:H	1.44	0.82
1:A:951:MET:C	1:A:952:THR:N	2.32	0.82
1:B:295:VAL:HG12	1:B:414:VAL:CG1	2.09	0.82
1:A:435:ILE:CG2	1:A:446:PHE:HB2	2.06	0.82
1:A:548:ARG:HG3	1:A:583:VAL:O	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:785:ASN:HB3	1:B:788:PHE:CD2	2.14	0.82
1:B:863:ILE:CG2	1:B:876:THR:HB	2.07	0.82
1:A:987:MET:HB2	1:A:1019:THR:CG2	2.09	0.82
1:A:44:GLY:HA2	1:A:50:PHE:CE2	2.15	0.82
1:A:53:LEU:HD23	1:A:54:VAL:N	1.94	0.82
1:A:44:GLY:HA2	1:A:50:PHE:HE2	1.44	0.82
1:B:44:GLY:HA2	1:B:50:PHE:CE2	2.15	0.82
1:A:133:TYR:CB	1:A:136:ILE:HG12	2.09	0.82
1:A:785:ASN:HB3	1:A:788:PHE:CD2	2.14	0.82
1:A:295:VAL:HA	1:A:414:VAL:HG22	1.60	0.82
1:A:50:PHE:HB2	1:A:498:GLU:O	1.78	0.82
1:A:439:TYR:CE2	1:A:538:LYS:CE	2.63	0.82
1:A:991:GLN:CG	1:A:1008:THR:HG21	2.10	0.82
1:B:185:ALA:HB1	1:B:243:TYR:CE1	2.15	0.82
1:A:397:LEU:HD23	1:A:399:ILE:CD1	2.10	0.81
1:B:882:LEU:HB2	1:B:910:ALA:HA	1.58	0.81
1:A:225:MET:HE1	1:A:227:LYS:HG3	1.63	0.81
1:A:994:LEU:HD11	1:A:1006:ASN:HB2	1.63	0.81
1:B:356:ILE:HG22	1:B:421:ILE:HB	1.61	0.81
1:B:62:ILE:HG13	1:B:73:LEU:HB2	1.62	0.81
1:A:889:ILE:HG23	1:A:892:HIS:CE1	2.16	0.81
1:B:154:LYS:HD3	1:B:210:ASP:OD1	1.81	0.81
1:B:397:LEU:HD23	1:B:399:ILE:CD1	2.11	0.81
1:B:863:ILE:HG13	1:B:864:PRO:HD3	1.62	0.81
1:A:458:ARG:HD2	1:A:524:PRO:CG	2.10	0.81
1:B:42:PHE:CE1	1:B:79:VAL:HG22	2.14	0.81
1:A:440:LYS:CB	1:A:538:LYS:NZ	2.44	0.81
1:A:154:LYS:HD3	1:A:210:ASP:OD1	1.81	0.80
1:B:154:LYS:HB2	1:B:157:HIS:CD2	2.16	0.80
1:B:324:THR:HB	1:B:462:PRO:CB	2.10	0.80
1:A:185:ALA:HB1	1:A:243:TYR:CE1	2.15	0.80
1:A:623:ILE:HD12	1:A:624:THR:N	1.96	0.80
1:B:486:PHE:CE1	1:B:493:LEU:HD13	2.16	0.80
1:B:889:ILE:HG23	1:B:892:HIS:CE1	2.16	0.80
1:A:830:GLN:HG2	1:A:831:CYS:H	1.43	0.80
1:A:356:ILE:HG22	1:A:421:ILE:HB	1.61	0.80
1:A:486:PHE:CE1	1:A:493:LEU:HD13	2.16	0.80
1:B:444:LEU:HD13	1:B:445:ALA:N	1.97	0.80
1:B:623:ILE:HD12	1:B:624:THR:N	1.96	0.80
1:A:620:PRO:HA	1:A:623:ILE:CG1	2.12	0.80
1:B:314:LEU:HD11	1:B:332:ASP:HB3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:192:PRO:HB3	1:B:233:PHE:CE1	2.17	0.80
1:B:653:TYR:HE2	1:B:682:HIS:HD1	1.27	0.80
1:A:994:LEU:CD1	1:A:1006:ASN:HB2	2.12	0.79
1:B:620:PRO:HA	1:B:623:ILE:CG1	2.12	0.79
1:A:192:PRO:HB3	1:A:233:PHE:CE1	2.17	0.79
1:B:239:PHE:CE1	1:B:260:PRO:HD2	2.17	0.79
1:B:317:ALA:HB1	1:B:321:LEU:HB3	1.64	0.79
1:B:380:LEU:HD12	1:B:386:LYS:HE3	1.64	0.79
1:A:321:LEU:HD12	1:A:462:PRO:HG2	1.64	0.79
1:A:591:ASN:OD1	1:A:639:LYS:HE2	1.83	0.79
1:A:926:ALA:HB1	1:A:947:LEU:HD12	1.63	0.79
1:B:699:ASP:CA	1:B:725:ASN:OD1	2.29	0.79
1:A:154:LYS:HB2	1:A:157:HIS:CD2	2.16	0.79
1:A:370:LEU:HD12	1:A:399:ILE:HD12	1.64	0.79
1:A:951:MET:HG2	1:A:977:ASN:CG	2.03	0.79
1:B:370:LEU:HD12	1:B:399:ILE:HD12	1.63	0.79
1:A:244:VAL:HG13	1:A:482:ARG:NH1	1.98	0.79
1:A:239:PHE:CE1	1:A:260:PRO:HD2	2.17	0.79
1:B:244:VAL:HG13	1:B:482:ARG:NH1	1.98	0.79
1:A:324:THR:HB	1:A:462:PRO:CB	2.10	0.79
1:A:444:LEU:HD13	1:A:445:ALA:N	1.97	0.79
1:A:863:ILE:HG13	1:A:864:PRO:HD3	1.62	0.79
1:B:591:ASN:OD1	1:B:639:LYS:HE2	1.83	0.79
1:A:62:ILE:HG13	1:A:73:LEU:HB2	1.62	0.79
1:B:319:ALA:H	1:B:441:ASN:HD22	1.31	0.79
1:B:44:GLY:HA2	1:B:50:PHE:HE2	1.44	0.79
1:B:926:ALA:HB1	1:B:947:LEU:HD12	1.63	0.79
1:A:715:VAL:HG21	1:A:717:LYS:HD2	1.65	0.78
1:B:453:LYS:HE3	1:B:472:VAL:CG2	2.13	0.78
1:B:715:VAL:HG21	1:B:717:LYS:HD2	1.65	0.78
1:A:319:ALA:H	1:A:441:ASN:HD22	1.31	0.78
1:A:440:LYS:CB	1:A:538:LYS:HZ3	1.96	0.78
1:A:231:ASP:O	1:A:234:THR:HG22	1.84	0.78
1:A:295:VAL:HG12	1:A:414:VAL:CG1	2.09	0.78
1:A:847:LEU:CG	1:A:850:ALA:HA	2.13	0.78
1:B:320:VAL:HG21	1:B:442:HIS:CD2	2.19	0.78
1:A:453:LYS:HE3	1:A:472:VAL:CG2	2.13	0.78
1:A:320:VAL:HG21	1:A:442:HIS:CD2	2.19	0.78
1:A:742:ILE:HB	1:A:745:ILE:O	1.84	0.78
1:A:873:THR:HA	1:A:982:SER:HB2	0.82	0.78
1:B:469:TYR:HB3	1:B:523:ASP:OD1	1.81	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:742:ILE:HB	1:B:745:ILE:O	1.84	0.78
1:A:380:LEU:HD12	1:A:386:LYS:HE3	1.64	0.78
1:A:868:PRO:CG	1:A:981:GLY:HA3	2.12	0.78
1:B:56:ASP:OD2	1:B:142:LEU:HD11	1.83	0.78
1:B:321:LEU:HD12	1:B:462:PRO:HG2	1.64	0.78
1:A:181:LYS:NZ	1:A:216:VAL:HG23	1.98	0.78
1:A:327:VAL:HG12	1:A:358:ILE:HD11	1.66	0.78
1:A:972:THR:HA	1:A:1002:TYR:HE1	1.47	0.78
1:B:439:TYR:OH	1:B:538:LYS:HE3	1.83	0.78
1:A:439:TYR:CZ	1:A:538:LYS:CE	2.67	0.78
1:A:870:GLU:HG2	1:A:1025:ALA:N	1.98	0.78
1:A:51:ASN:HD21	1:A:67:VAL:HG23	1.49	0.78
1:A:994:LEU:O	1:A:994:LEU:HD12	1.84	0.78
1:B:847:LEU:CG	1:B:850:ALA:HA	2.13	0.78
1:A:314:LEU:HD11	1:A:332:ASP:HB3	1.64	0.77
1:A:710:LEU:HD12	1:A:710:LEU:O	1.84	0.77
1:A:284:LYS:HD3	1:A:284:LYS:O	1.84	0.77
1:B:168:VAL:HG23	1:B:185:ALA:O	1.84	0.77
1:B:51:ASN:HD21	1:B:67:VAL:HG23	1.50	0.77
1:A:1014:LEU:H	1:A:1014:LEU:HD22	1.48	0.77
1:A:1016:MET:HG2	1:A:1035:TYR:CE2	2.19	0.77
1:A:327:VAL:CG1	1:A:358:ILE:HD11	2.14	0.77
1:B:327:VAL:CG1	1:B:358:ILE:HD11	2.14	0.77
1:A:56:ASP:OD2	1:A:142:LEU:HD11	1.83	0.77
1:B:710:LEU:O	1:B:710:LEU:HD12	1.84	0.77
1:B:595:GLU:CB	1:B:597:LEU:HD23	2.14	0.77
1:B:231:ASP:O	1:B:234:THR:HG22	1.84	0.77
1:B:327:VAL:HG12	1:B:358:ILE:HD11	1.65	0.77
1:B:567:ILE:HD13	1:B:567:ILE:H	1.50	0.77
1:A:168:VAL:HG23	1:A:185:ALA:O	1.84	0.77
1:B:662:LEU:HD11	1:B:702:GLN:NE2	1.99	0.77
1:A:317:ALA:HB1	1:A:321:LEU:HB3	1.64	0.77
1:A:547:PRO:O	1:A:548:ARG:HG2	1.84	0.77
1:A:870:GLU:HG3	1:A:1024:ARG:HG3	1.64	0.77
1:B:181:LYS:NZ	1:B:216:VAL:HG23	1.98	0.77
1:B:204:THR:HG21	1:B:209:ALA:HB3	1.66	0.77
1:B:359:LEU:HD12	1:B:362:ILE:CD1	2.10	0.77
1:A:1021:GLN:HG2	1:A:1026:ARG:HG3	1.67	0.77
1:B:403:PHE:CE1	1:B:406:LEU:HD23	2.20	0.77
1:A:549:ARG:HD3	1:A:584:PRO:HB3	1.66	0.76
1:A:567:ILE:H	1:A:567:ILE:HD13	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:284:LYS:O	1:B:284:LYS:HD3	1.84	0.76
1:A:120:ASP:OD2	1:A:123:GLU:HG3	1.86	0.76
1:A:403:PHE:CE1	1:A:406:LEU:HD23	2.20	0.76
1:A:439:TYR:OH	1:A:538:LYS:HE3	1.84	0.76
1:A:460:ASP:HB3	1:A:464:GLY:N	2.00	0.76
1:B:780:LEU:O	1:B:780:LEU:HD12	1.86	0.76
1:B:847:LEU:CD1	1:B:850:ALA:HA	2.16	0.76
1:A:873:THR:HA	1:A:982:SER:CA	2.15	0.76
1:B:172:ILE:HG12	1:B:182:LEU:HD13	1.68	0.76
1:B:616:ALA:O	1:B:620:PRO:HD2	1.85	0.76
1:A:359:LEU:HD12	1:A:362:ILE:CD1	2.09	0.76
1:A:616:ALA:O	1:A:620:PRO:HD2	1.85	0.76
1:A:780:LEU:HD12	1:A:780:LEU:O	1.86	0.76
1:B:120:ASP:OD2	1:B:123:GLU:HG3	1.86	0.76
1:B:460:ASP:HB3	1:B:464:GLY:N	2.00	0.76
1:B:64:LEU:HD12	1:B:496:MET:CE	2.16	0.76
1:A:873:THR:OG1	1:A:981:GLY:CA	2.34	0.76
1:A:1010:SER:HB2	1:A:1035:TYR:CE2	2.20	0.75
1:A:256:LEU:CB	1:A:309:LEU:HD22	2.16	0.75
1:A:42:PHE:HZ	1:A:45:GLU:HB2	1.50	0.75
1:A:869:ARG:O	1:A:920:ALA:HB3	1.86	0.75
1:A:172:ILE:HG12	1:A:182:LEU:HD13	1.68	0.75
1:A:458:ARG:CD	1:A:524:PRO:HB3	2.12	0.75
1:A:868:PRO:HG2	1:A:1022:VAL:HG22	1.65	0.75
1:A:919:GLU:HB3	1:A:1024:ARG:HH11	1.51	0.75
1:B:278:LYS:HE3	1:B:296:PRO:HG3	1.67	0.75
1:B:547:PRO:O	1:B:548:ARG:HG2	1.84	0.75
1:B:806:MET:HE3	1:B:806:MET:N	1.99	0.75
1:B:847:LEU:HD12	1:B:852:SER:CB	2.16	0.75
1:A:874:LYS:N	1:A:982:SER:HB2	2.02	0.75
1:B:506:VAL:HG22	1:B:525:HIS:CD2	2.21	0.75
1:B:785:ASN:HB3	1:B:788:PHE:HD2	1.48	0.75
1:B:873:THR:HB	1:B:917:MET:CE	2.17	0.75
1:A:204:THR:HG21	1:A:209:ALA:HB3	1.66	0.75
1:A:847:LEU:CD1	1:A:850:ALA:HA	2.16	0.75
1:A:278:LYS:HE3	1:A:296:PRO:HG3	1.67	0.75
1:A:473:GLN:CB	1:A:504:VAL:HG22	2.17	0.75
1:B:323:ARG:HG3	1:B:324:THR:N	2.02	0.75
1:B:473:GLN:CB	1:B:504:VAL:HG22	2.17	0.75
1:B:784:TRP:HD1	1:B:790:ILE:HD11	1.51	0.75
1:B:806:MET:H	1:B:806:MET:CE	1.97	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:446:PHE:HB3	1:B:454:LEU:HD11	1.69	0.75
1:B:448:GLY:HA3	1:B:480:VAL:HG21	1.68	0.75
1:A:188:VAL:HG22	1:A:191:LYS:H	1.52	0.75
1:A:278:LYS:HG2	1:A:296:PRO:HA	1.69	0.75
1:A:64:LEU:HD12	1:A:496:MET:CE	2.16	0.75
1:A:739:ILE:CD1	1:A:748:ARG:HG2	2.17	0.75
1:A:847:LEU:HD12	1:A:852:SER:CB	2.16	0.75
1:B:699:ASP:C	1:B:725:ASN:OD1	2.26	0.75
1:B:700:CYS:CB	1:B:701:PRO:CD	2.50	0.75
1:A:323:ARG:HG3	1:A:324:THR:N	2.02	0.74
1:A:623:ILE:HA	1:A:626:ASN:ND2	2.01	0.74
1:A:683:ASP:O	1:A:686:THR:HG22	1.87	0.74
1:A:873:THR:HB	1:A:917:MET:CE	2.17	0.74
1:B:196:PRO:HB3	1:B:225:MET:HE1	1.68	0.74
1:A:321:LEU:CD1	1:A:462:PRO:HG2	2.17	0.74
1:B:202:LYS:HD3	1:B:214:ALA:HB3	1.69	0.74
1:B:256:LEU:CB	1:B:309:LEU:HD22	2.16	0.74
1:B:321:LEU:CD1	1:B:462:PRO:HG2	2.17	0.74
1:B:42:PHE:HZ	1:B:45:GLU:HB2	1.50	0.74
1:B:869:ARG:O	1:B:920:ALA:HB3	1.86	0.74
1:A:99:ILE:HD11	1:A:152:PHE:HB2	1.69	0.74
1:A:785:ASN:HB3	1:A:788:PHE:HD2	1.48	0.74
1:A:151:PRO:HB2	1:A:157:HIS:ND1	2.02	0.74
1:B:623:ILE:HA	1:B:626:ASN:ND2	2.01	0.74
1:A:868:PRO:HG2	1:A:1022:VAL:CG2	2.17	0.74
1:A:448:GLY:HA3	1:A:480:VAL:HG21	1.68	0.74
1:B:151:PRO:HB2	1:B:157:HIS:ND1	2.03	0.74
1:B:188:VAL:HG22	1:B:191:LYS:H	1.52	0.74
1:A:1010:SER:HB2	1:A:1035:TYR:CZ	2.23	0.74
1:B:814:LEU:HB3	1:B:847:LEU:HB2	1.70	0.74
1:A:567:ILE:HD12	1:A:650:PHE:CZ	2.22	0.74
1:B:185:ALA:HB1	1:B:243:TYR:CZ	2.23	0.74
1:B:548:ARG:CG	1:B:584:PRO:HA	2.16	0.74
1:A:324:THR:HG21	1:A:462:PRO:HA	1.70	0.73
1:B:278:LYS:HG2	1:B:296:PRO:HA	1.68	0.73
1:B:739:ILE:CD1	1:B:748:ARG:HG2	2.17	0.73
1:A:185:ALA:HB1	1:A:243:TYR:CZ	2.23	0.73
1:A:569:VAL:CB	1:A:654:ASN:HB2	2.17	0.73
1:B:548:ARG:HG3	1:B:584:PRO:N	2.03	0.73
1:B:562:VAL:HG22	1:B:578:LEU:CD2	2.18	0.73
1:A:562:VAL:HG22	1:A:578:LEU:CD2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:814:LEU:HB3	1:A:847:LEU:HB2	1.70	0.73
1:B:324:THR:HG21	1:B:462:PRO:HA	1.70	0.73
1:A:435:ILE:HD13	1:A:436:ALA:N	2.03	0.73
1:A:446:PHE:HB3	1:A:454:LEU:HD11	1.69	0.73
1:A:704:LEU:HD11	1:A:724:LYS:HE3	1.69	0.73
1:B:439:TYR:OH	1:B:538:LYS:CE	2.37	0.73
1:A:154:LYS:H	1:A:157:HIS:HD2	1.36	0.73
1:A:958:LEU:HD22	1:A:960:PRO:O	1.87	0.73
1:B:683:ASP:O	1:B:686:THR:HG22	1.88	0.73
1:A:225:MET:CE	1:A:227:LYS:HG3	2.19	0.73
1:B:468:GLN:CG	1:B:523:ASP:HA	2.08	0.73
1:B:225:MET:CE	1:B:227:LYS:HG3	2.19	0.73
1:A:446:PHE:CD2	1:A:454:LEU:HD21	2.24	0.73
1:B:225:MET:HE1	1:B:227:LYS:HG3	1.70	0.73
1:B:435:ILE:HD13	1:B:436:ALA:N	2.03	0.73
1:B:46:PRO:HG2	1:B:69:ARG:CG	2.17	0.73
1:A:548:ARG:O	1:A:584:PRO:HD3	1.88	0.73
1:B:39:PHE:CD2	1:B:473:GLN:HG3	2.23	0.73
1:B:567:ILE:HD12	1:B:650:PHE:CZ	2.22	0.73
1:B:704:LEU:HD11	1:B:724:LYS:HE3	1.69	0.73
1:A:670:ARG:HA	1:A:670:ARG:HE	1.54	0.72
1:A:46:PRO:HG2	1:A:69:ARG:CG	2.17	0.72
1:B:184:ILE:O	1:B:184:ILE:HD12	1.89	0.72
1:A:1030:ASP:O	1:A:1032:VAL:HG23	1.89	0.72
1:A:181:LYS:HZ3	1:A:216:VAL:HG23	1.54	0.72
1:A:184:ILE:HD12	1:A:184:ILE:O	1.89	0.72
1:A:73:LEU:HD22	1:A:79:VAL:HA	1.72	0.72
1:A:784:TRP:HD1	1:A:790:ILE:HD11	1.51	0.72
1:B:99:ILE:HD11	1:B:152:PHE:HB2	1.69	0.72
1:B:670:ARG:HA	1:B:670:ARG:HE	1.55	0.72
1:A:822:CYS:HA	1:A:833:LEU:HD23	1.70	0.72
1:A:994:LEU:HD11	1:A:1006:ASN:ND2	2.05	0.72
1:B:181:LYS:HD2	1:B:202:LYS:HA	1.71	0.72
1:B:822:CYS:HA	1:B:833:LEU:HD23	1.70	0.72
1:A:558:VAL:HG11	1:A:646:ALA:HB2	1.71	0.72
1:B:261:GLU:HA	1:B:264:SER:O	1.89	0.72
1:A:202:LYS:HD3	1:A:214:ALA:HB3	1.69	0.72
1:B:115:LYS:HB3	1:B:168:VAL:HG11	1.71	0.72
1:A:39:PHE:CD2	1:A:473:GLN:HG3	2.23	0.72
1:A:619:VAL:HB	1:A:620:PRO:HD3	1.72	0.72
1:A:832:THR:CG2	1:A:836:HIS:HB2	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:458:ARG:HG3	1:B:468:GLN:OE1	1.90	0.72
1:B:704:LEU:HB2	1:B:722:LYS:HG3	1.72	0.72
1:A:261:GLU:HA	1:A:264:SER:O	1.89	0.71
1:A:595:GLU:CB	1:A:597:LEU:HD23	2.14	0.71
1:A:937:ARG:CG	1:A:938:PRO:HD2	2.20	0.71
1:B:93:LYS:HD2	1:B:105:GLU:OE1	1.90	0.71
1:B:446:PHE:HZ	1:B:506:VAL:HG23	1.55	0.71
1:B:595:GLU:HG2	1:B:632:VAL:HG13	1.72	0.71
1:A:519:LEU:HD12	1:A:552:SER:O	1.90	0.71
1:A:806:MET:H	1:A:806:MET:CE	1.97	0.71
1:B:380:LEU:HB2	1:B:386:LYS:CE	2.20	0.71
1:B:471:THR:HG23	1:B:473:GLN:HE22	1.55	0.71
1:A:1017:LYS:H	1:A:1017:LYS:CE	2.01	0.71
1:A:321:LEU:HG	1:A:325:LEU:CD1	2.20	0.71
1:B:832:THR:CG2	1:B:836:HIS:HB2	2.20	0.71
1:A:595:GLU:HG2	1:A:632:VAL:HG13	1.72	0.71
1:A:847:LEU:CD1	1:A:852:SER:HB3	2.20	0.71
1:B:937:ARG:CG	1:B:938:PRO:HD2	2.20	0.71
1:A:370:LEU:HD21	1:A:374:TYR:HE1	1.55	0.71
1:A:989:GLY:HA2	1:A:1017:LYS:CE	2.20	0.71
1:B:563:HIS:HB2	1:B:577:VAL:CG1	2.21	0.71
1:B:619:VAL:HB	1:B:620:PRO:HD3	1.72	0.71
1:B:847:LEU:CD1	1:B:852:SER:HB3	2.20	0.71
1:A:321:LEU:HG	1:A:325:LEU:HD11	1.71	0.71
1:B:188:VAL:HG13	1:B:190:GLY:H	1.56	0.71
1:B:321:LEU:HG	1:B:325:LEU:CD1	2.20	0.71
1:A:1016:MET:O	1:A:1032:VAL:HG13	1.91	0.71
1:A:304:VAL:HG11	1:A:351:GLU:OE2	1.91	0.71
1:A:40:VAL:HG12	1:A:503:ARG:HB3	1.73	0.71
1:B:450:LYS:HA	1:B:479:PRO:HB3	1.73	0.71
1:A:1004:ILE:HD13	1:A:1005:CYS:N	2.06	0.71
1:A:380:LEU:HB2	1:A:386:LYS:CE	2.20	0.71
1:A:474:VAL:HG21	1:A:495:ILE:HD13	1.72	0.71
1:A:515:CYS:O	1:A:519:LEU:HD23	1.91	0.71
1:A:704:LEU:HB2	1:A:722:LYS:HG3	1.71	0.71
1:A:806:MET:HE3	1:A:806:MET:N	1.99	0.71
1:B:474:VAL:HG21	1:B:495:ILE:HD13	1.72	0.71
1:B:575:LEU:HD22	1:B:575:LEU:H	1.56	0.71
1:A:962:ARG:HB3	1:A:1034:GLN:HG3	1.73	0.70
1:B:154:LYS:H	1:B:157:HIS:HD2	1.36	0.70
1:B:72:LYS:HE3	1:B:80:LEU:CD1	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:ARG:HG3	1:A:468:GLN:OE1	1.90	0.70
1:B:321:LEU:HG	1:B:325:LEU:HD11	1.71	0.70
1:A:115:LYS:HB3	1:A:168:VAL:HG11	1.71	0.70
1:A:480:VAL:HB	1:A:484:MET:CE	2.21	0.70
1:A:446:PHE:HZ	1:A:506:VAL:HG23	1.55	0.70
1:A:507:GLU:HG3	1:A:537:ARG:HG3	1.74	0.70
1:A:556:GLN:O	1:A:582:ASN:HB3	1.91	0.70
1:B:281:ARG:HB3	1:B:293:VAL:CG1	2.22	0.70
1:B:304:VAL:HG11	1:B:351:GLU:OE2	1.91	0.70
1:A:281:ARG:HB3	1:A:293:VAL:CG1	2.22	0.70
1:A:563:HIS:HB2	1:A:577:VAL:CG1	2.21	0.70
1:B:519:LEU:HD12	1:B:552:SER:O	1.90	0.70
1:A:471:THR:HG23	1:A:473:GLN:HE22	1.55	0.70
1:B:370:LEU:HD21	1:B:374:TYR:HE1	1.55	0.70
1:A:63:TYR:C	1:A:64:LEU:HD22	2.12	0.70
1:A:39:PHE:HE1	1:A:505:PRO:HD2	1.56	0.70
1:A:93:LYS:HD2	1:A:105:GLU:OE1	1.91	0.70
1:A:1016:MET:HE3	1:A:1017:LYS:C	2.12	0.70
1:A:181:LYS:HD2	1:A:202:LYS:HA	1.71	0.70
1:B:847:LEU:HD21	1:B:850:ALA:HA	1.73	0.70
1:A:42:PHE:HE1	1:A:79:VAL:CG2	2.05	0.70
1:B:216:VAL:HG12	1:B:224:SER:OG	1.92	0.70
1:B:480:VAL:HB	1:B:484:MET:CE	2.21	0.70
1:A:873:THR:HG23	1:A:981:GLY:C	2.11	0.70
1:B:551:ALA:HA	1:B:556:GLN:OE1	1.92	0.70
1:A:367:LYS:HE2	1:A:399:ILE:O	1.91	0.69
1:A:474:VAL:CG1	1:A:475:VAL:HG23	2.18	0.69
1:A:450:LYS:HA	1:A:479:PRO:HB3	1.73	0.69
1:A:551:ALA:HA	1:A:556:GLN:OE1	1.92	0.69
1:B:558:VAL:HG11	1:B:646:ALA:HB2	1.71	0.69
1:B:73:LEU:HD22	1:B:79:VAL:HA	1.72	0.69
1:A:739:ILE:HB	1:A:781:THR:CG2	2.22	0.69
1:A:72:LYS:HE3	1:A:80:LEU:CD1	2.22	0.69
1:B:110:THR:HG22	1:B:132:LEU:HD21	1.73	0.69
1:B:63:TYR:C	1:B:64:LEU:HD22	2.12	0.69
1:B:367:LYS:HE2	1:B:399:ILE:O	1.91	0.69
1:B:515:CYS:O	1:B:519:LEU:HD23	1.91	0.69
1:A:847:LEU:HD21	1:A:850:ALA:HA	1.73	0.69
1:B:40:VAL:HG12	1:B:503:ARG:HB3	1.73	0.69
1:A:1016:MET:HG2	1:A:1035:TYR:HE2	1.57	0.69
1:A:216:VAL:HG12	1:A:224:SER:OG	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:380:LEU:HB2	1:A:386:LYS:HE3	1.74	0.69
1:A:439:TYR:CZ	1:A:538:LYS:HE3	2.28	0.69
1:A:560:LEU:CD2	1:A:648:THR:HG23	2.19	0.69
1:A:188:VAL:HG13	1:A:190:GLY:H	1.56	0.69
1:A:435:ILE:HD12	1:A:486:PHE:CD1	2.27	0.69
1:A:473:GLN:OE1	1:A:504:VAL:HG13	1.93	0.69
1:A:802:LYS:C	1:A:803:CYS:N	2.46	0.69
1:A:873:THR:HG23	1:A:982:SER:N	2.07	0.69
1:B:473:GLN:OE1	1:B:504:VAL:HG13	1.93	0.69
1:A:595:GLU:CG	1:A:632:VAL:HG13	2.22	0.69
1:A:959:LYS:CB	1:A:972:THR:HB	2.21	0.69
1:A:988:PHE:HB3	1:A:1016:MET:SD	2.33	0.69
1:B:453:LYS:HE3	1:B:472:VAL:HG21	1.73	0.69
1:A:958:LEU:HD23	1:A:959:LYS:N	2.08	0.69
1:B:380:LEU:HB2	1:B:386:LYS:HE3	1.74	0.69
1:A:133:TYR:HB2	1:A:136:ILE:HG12	1.75	0.69
1:A:133:TYR:CD2	1:A:136:ILE:HG12	2.28	0.69
1:B:133:TYR:CD2	1:B:136:ILE:HG12	2.28	0.69
1:A:196:PRO:HB3	1:A:225:MET:HE1	1.73	0.68
1:B:446:PHE:CD2	1:B:454:LEU:HD21	2.24	0.68
1:B:507:GLU:HG3	1:B:537:ARG:HG3	1.74	0.68
1:A:453:LYS:HE3	1:A:472:VAL:HG21	1.73	0.68
1:B:46:PRO:HG3	1:B:69:ARG:HD2	1.75	0.68
1:A:972:THR:HG23	1:A:1002:TYR:CD1	2.28	0.68
1:B:739:ILE:HB	1:B:781:THR:CG2	2.23	0.68
1:B:412:LEU:H	1:B:412:LEU:HD13	1.59	0.68
1:A:773:ILE:HD13	1:A:773:ILE:H	1.59	0.68
1:B:474:VAL:CG1	1:B:475:VAL:HG23	2.18	0.68
1:B:773:ILE:HD13	1:B:773:ILE:H	1.59	0.68
1:A:110:THR:HG22	1:A:132:LEU:HD21	1.74	0.68
1:A:323:ARG:HG3	1:A:324:THR:H	1.58	0.68
1:A:689:PHE:CD1	1:A:691:GLU:HG2	2.28	0.68
1:A:703:LEU:HD13	1:A:723:ALA:HB2	1.76	0.68
1:B:435:ILE:HD12	1:B:486:PHE:CD1	2.27	0.68
1:A:594:PHE:O	1:A:595:GLU:HG2	1.94	0.68
1:A:867:GLY:HA3	1:A:948:TYR:OH	1.94	0.68
1:B:190:GLY:HA2	1:B:233:PHE:CE2	2.29	0.68
1:B:548:ARG:NE	1:B:583:VAL:O	2.26	0.68
1:B:595:GLU:CG	1:B:632:VAL:HG13	2.22	0.68
1:A:53:LEU:HB2	1:A:496:MET:HE1	1.76	0.68
1:B:594:PHE:O	1:B:595:GLU:HG2	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:700:CYS:O	1:B:725:ASN:CB	2.30	0.68
1:A:190:GLY:HA2	1:A:233:PHE:CE2	2.29	0.68
1:A:40:VAL:HG11	1:A:503:ARG:NE	2.09	0.68
1:A:555:LYS:HG3	1:A:556:GLN:N	2.09	0.68
1:A:830:GLN:HG2	1:A:831:CYS:N	2.09	0.68
1:B:689:PHE:CD1	1:B:691:GLU:HG2	2.28	0.68
1:B:830:GLN:HG2	1:B:831:CYS:N	2.09	0.68
1:B:98:ARG:HE	1:B:107:LEU:CD1	2.07	0.68
1:A:575:LEU:HD22	1:A:575:LEU:H	1.56	0.68
1:A:73:LEU:CD2	1:A:79:VAL:HA	2.23	0.68
1:B:323:ARG:HG3	1:B:324:THR:H	1.58	0.68
1:B:62:ILE:O	1:B:62:ILE:HG13	1.94	0.68
1:B:62:ILE:HD11	1:B:73:LEU:HD12	1.76	0.68
1:A:867:GLY:C	1:A:980:ALA:HB1	2.14	0.67
1:A:962:ARG:HB3	1:A:1034:GLN:CG	2.23	0.67
1:B:548:ARG:HG3	1:B:584:PRO:CA	2.25	0.67
1:A:1013:VAL:HG22	1:A:1014:LEU:H	1.60	0.67
1:A:532:HIS:O	1:A:641:THR:HG21	1.94	0.67
1:B:42:PHE:HE1	1:B:79:VAL:CG2	2.05	0.67
1:B:560:LEU:CD2	1:B:648:THR:HG23	2.19	0.67
1:B:863:ILE:HG23	1:B:864:PRO:CD	2.23	0.67
1:A:46:PRO:HG3	1:A:69:ARG:HD2	1.75	0.67
1:B:460:ASP:HB3	1:B:463:LYS:HB3	1.77	0.67
1:B:867:GLY:HA3	1:B:948:TYR:OH	1.94	0.67
1:A:98:ARG:HE	1:A:107:LEU:HD11	1.60	0.67
1:A:531:LEU:HG	1:A:584:PRO:HG2	1.77	0.67
1:A:951:MET:HG3	1:A:952:THR:N	2.09	0.67
1:B:98:ARG:HE	1:B:107:LEU:HD11	1.60	0.67
1:A:137:CYS:HB2	1:A:213:PHE:CZ	2.30	0.67
1:A:321:LEU:O	1:A:325:LEU:HG	1.95	0.67
1:A:460:ASP:HB3	1:A:463:LYS:HB3	1.77	0.67
1:B:555:LYS:HG3	1:B:556:GLN:N	2.09	0.67
1:A:994:LEU:CD1	1:A:1006:ASN:HD22	2.07	0.67
1:A:863:ILE:HG23	1:A:864:PRO:CD	2.23	0.67
1:B:321:LEU:O	1:B:325:LEU:HG	1.95	0.67
1:B:595:GLU:HG2	1:B:632:VAL:CG1	2.25	0.67
1:B:62:ILE:HD12	1:B:64:LEU:HD21	1.75	0.67
1:B:73:LEU:CD2	1:B:79:VAL:HA	2.24	0.67
1:A:62:ILE:HD11	1:A:73:LEU:HD12	1.76	0.67
1:B:53:LEU:HB2	1:B:496:MET:HE1	1.77	0.67
1:A:62:ILE:HD12	1:A:64:LEU:HD21	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:325:LEU:CD1	1:B:333:LEU:HD11	2.25	0.66
1:A:595:GLU:HG2	1:A:632:VAL:CG1	2.25	0.66
1:A:847:LEU:HG	1:A:850:ALA:N	2.10	0.66
1:A:98:ARG:HE	1:A:107:LEU:CD1	2.07	0.66
1:B:703:LEU:HD13	1:B:723:ALA:HB2	1.76	0.66
1:B:847:LEU:HG	1:B:850:ALA:N	2.10	0.66
1:A:532:HIS:HA	1:A:641:THR:CG2	2.25	0.66
1:A:873:THR:HG1	1:A:981:GLY:HA2	1.61	0.66
1:B:133:TYR:HB2	1:B:136:ILE:HG12	1.75	0.66
1:B:863:ILE:HG13	1:B:864:PRO:CD	2.25	0.66
1:B:98:ARG:HH21	1:B:107:LEU:HD12	1.60	0.66
1:B:40:VAL:HG11	1:B:503:ARG:NE	2.09	0.66
1:A:98:ARG:HH21	1:A:107:LEU:HD12	1.59	0.66
1:A:239:PHE:CD1	1:A:260:PRO:HD2	2.30	0.66
1:A:566:ASN:HA	1:A:651:VAL:CG2	2.25	0.66
1:A:955:LEU:HG	1:A:973:ILE:CG2	2.24	0.66
1:B:133:TYR:HB2	1:B:136:ILE:H	1.61	0.66
1:A:446:PHE:CZ	1:A:486:PHE:HZ	2.13	0.66
1:B:739:ILE:HD12	1:B:748:ARG:HG2	1.76	0.66
1:B:854:CYS:C	1:B:855:THR:N	2.49	0.66
1:B:809:SER:CB	1:B:881:ASN:CG	2.47	0.66
1:A:325:LEU:CD1	1:A:333:LEU:HD11	2.25	0.66
1:A:739:ILE:HD12	1:A:748:ARG:HG2	1.76	0.66
1:A:863:ILE:HG13	1:A:864:PRO:CD	2.25	0.66
1:A:567:ILE:HD13	1:A:651:VAL:O	1.96	0.66
1:B:181:LYS:HD3	1:B:202:LYS:HA	1.78	0.66
1:B:137:CYS:HB2	1:B:213:PHE:CZ	2.30	0.66
1:B:410:ALA:HB1	1:B:411:PRO:HD2	1.78	0.66
1:B:548:ARG:HG3	1:B:584:PRO:HA	1.78	0.66
1:A:1016:MET:CE	1:A:1033:PHE:HB3	2.25	0.66
1:A:892:HIS:NE2	1:A:931:ILE:HB	2.11	0.66
1:B:110:THR:HB	1:B:132:LEU:CD2	2.26	0.66
1:B:629:HIS:CE1	1:B:669:TYR:CZ	2.69	0.66
1:A:261:GLU:HG2	1:A:264:SER:C	2.17	0.65
1:A:296:PRO:HD2	1:A:414:VAL:CG2	2.27	0.65
1:B:261:GLU:HG2	1:B:264:SER:C	2.17	0.65
1:A:216:VAL:HG12	1:A:224:SER:CB	2.26	0.65
1:A:412:LEU:HD13	1:A:412:LEU:H	1.59	0.65
1:A:474:VAL:HG12	1:A:475:VAL:CG2	2.21	0.65
1:A:782:VAL:HG23	1:A:790:ILE:HB	1.78	0.65
1:A:870:GLU:CB	1:A:1024:ARG:HG3	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:797:LYS:HD2	1:A:797:LYS:N	2.11	0.65
1:B:239:PHE:CD1	1:B:260:PRO:HD2	2.30	0.65
1:B:782:VAL:HG23	1:B:790:ILE:HB	1.78	0.65
1:A:133:TYR:HB2	1:A:136:ILE:H	1.61	0.65
1:A:62:ILE:HG13	1:A:62:ILE:O	1.94	0.65
1:A:432:THR:OG1	1:A:480:VAL:HG23	1.96	0.65
1:A:473:GLN:HG2	1:A:504:VAL:HG22	1.79	0.65
1:B:676:TYR:HD1	1:B:730:GLN:CG	2.08	0.65
1:B:847:LEU:CD2	1:B:850:ALA:HA	2.27	0.65
1:A:181:LYS:HD3	1:A:202:LYS:HA	1.78	0.65
1:A:154:LYS:H	1:A:157:HIS:CD2	2.15	0.65
1:B:265:PRO:HD3	1:B:274:VAL:CG2	2.27	0.65
1:B:446:PHE:CZ	1:B:486:PHE:HZ	2.14	0.65
1:B:675:LYS:HE3	1:B:694:VAL:HG22	1.79	0.65
1:A:110:THR:HB	1:A:132:LEU:CD2	2.26	0.65
1:A:453:LYS:HG2	1:A:472:VAL:CG2	2.16	0.65
1:A:706:VAL:HG13	1:A:707:ASP:O	1.96	0.65
1:B:216:VAL:HG12	1:B:224:SER:CB	2.26	0.65
1:A:872:GLY:HA3	1:A:1023:ASP:OD1	1.97	0.65
1:A:807:ARG:HD3	1:A:812:LEU:C	2.18	0.65
1:B:653:TYR:OH	1:B:682:HIS:CE1	2.50	0.65
1:B:807:ARG:HD3	1:B:812:LEU:C	2.17	0.65
1:A:368:ASP:O	1:A:371:GLN:HG2	1.97	0.64
1:A:675:LYS:HE3	1:A:694:VAL:HG22	1.79	0.64
1:B:432:THR:OG1	1:B:480:VAL:HG23	1.96	0.64
1:A:405:GLY:O	1:A:406:LEU:HD22	1.98	0.64
1:A:410:ALA:HB1	1:A:411:PRO:HD2	1.78	0.64
1:B:39:PHE:HE1	1:B:505:PRO:HD2	1.57	0.64
1:B:405:GLY:O	1:B:406:LEU:HD22	1.98	0.64
1:A:105:GLU:HB3	1:A:106:PRO:HD2	1.80	0.64
1:A:265:PRO:HD3	1:A:274:VAL:CG2	2.27	0.64
1:A:309:LEU:HD11	1:A:311:ALA:O	1.98	0.64
1:A:926:ALA:HB1	1:A:947:LEU:CD1	2.27	0.64
1:B:186:THR:HG22	1:B:187:ALA:N	2.12	0.64
1:B:320:VAL:O	1:B:323:ARG:HG2	1.98	0.64
1:B:474:VAL:HG12	1:B:475:VAL:CG2	2.21	0.64
1:B:53:LEU:HB2	1:B:496:MET:CE	2.28	0.64
1:B:567:ILE:HD13	1:B:651:VAL:O	1.96	0.64
1:A:186:THR:HG22	1:A:187:ALA:N	2.12	0.64
1:A:53:LEU:HB2	1:A:496:MET:CE	2.28	0.64
1:A:620:PRO:CA	1:A:623:ILE:HG13	2.23	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:53:LEU:HG	1:A:64:LEU:CD1	2.28	0.64
1:B:797:LYS:N	1:B:797:LYS:HD2	2.11	0.64
1:B:926:ALA:HB1	1:B:947:LEU:CD1	2.27	0.64
1:A:175:TYR:HD2	1:A:179:ASP:HB3	1.63	0.64
1:A:460:ASP:CB	1:A:463:LYS:HB3	2.28	0.64
1:B:469:TYR:HB3	1:B:523:ASP:CG	2.18	0.64
1:B:473:GLN:HG2	1:B:504:VAL:HG22	1.79	0.64
1:B:175:TYR:HD2	1:B:179:ASP:HB3	1.63	0.64
1:B:296:PRO:HD2	1:B:414:VAL:CG2	2.27	0.64
1:B:460:ASP:CB	1:B:463:LYS:HB3	2.28	0.64
1:B:505:PRO:CB	1:B:507:GLU:O	2.46	0.64
1:A:566:ASN:HB3	1:A:651:VAL:HG21	1.80	0.64
1:A:847:LEU:CD2	1:A:850:ALA:HA	2.27	0.64
1:B:56:ASP:OD1	1:B:119:ILE:HD12	1.98	0.64
1:A:741:ASN:O	1:A:778:VAL:HG13	1.98	0.64
1:B:105:GLU:HB3	1:B:106:PRO:HD2	1.80	0.64
1:B:473:GLN:HB2	1:B:504:VAL:HG22	1.80	0.64
1:B:566:ASN:HA	1:B:651:VAL:CG2	2.25	0.64
1:A:56:ASP:OD1	1:A:119:ILE:HD12	1.98	0.64
1:B:154:LYS:H	1:B:157:HIS:CD2	2.15	0.64
1:B:118:LEU:HG	1:B:172:ILE:HG13	1.80	0.64
1:B:309:LEU:HD11	1:B:311:ALA:O	1.98	0.64
1:B:53:LEU:HG	1:B:64:LEU:CD1	2.28	0.64
1:B:706:VAL:HG13	1:B:707:ASP:O	1.96	0.64
1:B:713:VAL:HG12	1:B:714:GLU:HG3	1.79	0.64
1:B:806:MET:HG2	1:B:807:ARG:HG3	1.80	0.64
1:A:405:GLY:C	1:A:406:LEU:HD22	2.19	0.63
1:B:185:ALA:HB1	1:B:243:TYR:CD1	2.33	0.63
1:B:653:TYR:CE2	1:B:682:HIS:ND1	2.60	0.63
1:B:892:HIS:NE2	1:B:931:ILE:HB	2.11	0.63
1:B:368:ASP:O	1:B:371:GLN:HG2	1.97	0.63
1:B:405:GLY:C	1:B:406:LEU:HD22	2.19	0.63
1:B:446:PHE:CE1	1:B:486:PHE:HZ	2.16	0.63
1:B:480:VAL:HG11	1:B:495:ILE:HD11	1.81	0.63
1:B:653:TYR:CE2	1:B:682:HIS:CE1	2.87	0.63
1:B:894:LYS:HD3	1:B:899:GLU:HA	1.81	0.63
1:A:320:VAL:O	1:A:323:ARG:HG2	1.98	0.63
1:B:181:LYS:HE2	1:B:202:LYS:HG2	1.80	0.63
1:A:1002:TYR:CZ	1:A:1004:ILE:HB	2.32	0.63
1:A:118:LEU:HG	1:A:172:ILE:HG13	1.80	0.63
1:A:713:VAL:HG12	1:A:714:GLU:HG3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:978:LEU:O	1:A:998:ARG:HD2	1.98	0.63
1:B:620:PRO:CA	1:B:623:ILE:HG13	2.23	0.63
1:A:806:MET:HG2	1:A:807:ARG:HG3	1.80	0.63
1:B:386:LYS:HG3	1:B:386:LYS:O	1.99	0.63
1:B:41:THR:HG22	1:B:502:THR:HA	1.81	0.63
1:B:446:PHE:CZ	1:B:506:VAL:HG23	2.33	0.63
1:B:566:ASN:HB3	1:B:651:VAL:HG21	1.79	0.63
1:A:933:VAL:HG23	1:A:934:ALA:N	2.10	0.63
1:A:1014:LEU:HD22	1:A:1014:LEU:N	2.14	0.63
1:A:295:VAL:HA	1:A:414:VAL:HG21	1.81	0.63
1:A:446:PHE:CE1	1:A:486:PHE:HZ	2.16	0.63
1:A:894:LYS:HD3	1:A:899:GLU:HA	1.80	0.63
1:A:40:VAL:HG11	1:A:503:ARG:CZ	2.29	0.63
1:B:448:GLY:CA	1:B:480:VAL:HG21	2.29	0.63
1:B:575:LEU:N	1:B:575:LEU:HD22	2.14	0.63
1:A:1015:ASP:O	1:A:1016:MET:HB3	1.98	0.62
1:A:197:THR:HG21	1:A:228:ILE:HD11	1.81	0.62
1:B:741:ASN:O	1:B:778:VAL:HG13	1.98	0.62
1:B:949:TYR:HE2	1:B:951:MET:CE	2.12	0.62
1:A:180:ASP:O	1:A:181:LYS:HG2	1.99	0.62
1:A:185:ALA:HB1	1:A:243:TYR:CD1	2.33	0.62
1:A:372:SER:O	1:A:375:ARG:HB2	1.99	0.62
1:B:180:ASP:O	1:B:181:LYS:HG2	1.99	0.62
1:B:295:VAL:HA	1:B:414:VAL:HG21	1.81	0.62
1:B:474:VAL:CG2	1:B:495:ILE:HD13	2.29	0.62
1:A:949:TYR:HE2	1:A:951:MET:CE	2.12	0.62
1:B:458:ARG:HG3	1:B:468:GLN:CD	2.20	0.62
1:A:382:LEU:HD23	1:A:385:LEU:HB3	1.81	0.62
1:A:492:GLN:HG2	1:A:503:ARG:CG	2.29	0.62
1:A:439:TYR:OH	1:A:538:LYS:CE	2.47	0.62
1:B:432:THR:HG1	1:B:480:VAL:HG23	1.65	0.62
1:B:469:TYR:HE2	1:B:471:THR:HB	1.65	0.62
1:A:446:PHE:CZ	1:A:506:VAL:HG23	2.33	0.62
1:A:448:GLY:CA	1:A:480:VAL:HG21	2.28	0.62
1:A:458:ARG:HG3	1:A:468:GLN:CD	2.20	0.62
1:B:320:VAL:HG21	1:B:442:HIS:HD2	1.64	0.62
1:A:575:LEU:HD22	1:A:575:LEU:N	2.14	0.62
1:B:933:VAL:HG23	1:B:934:ALA:N	2.10	0.62
1:B:296:PRO:HB2	1:B:417:MET:SD	2.39	0.62
1:B:40:VAL:HG11	1:B:503:ARG:CZ	2.29	0.62
1:A:386:LYS:O	1:A:386:LYS:HG3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:696:LEU:N	1:B:696:LEU:HD12	2.15	0.62
1:B:806:MET:CG	1:B:807:ARG:HG3	2.30	0.62
1:B:474:VAL:HG22	1:B:495:ILE:CG2	2.29	0.62
1:B:492:GLN:HG2	1:B:503:ARG:CG	2.29	0.62
1:B:855:THR:HG23	1:B:856:ASN:OD1	2.00	0.62
1:A:182:LEU:HG	1:A:184:ILE:HG23	1.82	0.61
1:A:473:GLN:HB2	1:A:504:VAL:HG22	1.80	0.61
1:A:72:LYS:CD	1:A:80:LEU:HD12	2.30	0.61
1:B:382:LEU:HD23	1:B:385:LEU:HB3	1.81	0.61
1:B:715:VAL:CG2	1:B:717:LYS:HD2	2.30	0.61
1:A:855:THR:HG23	1:A:856:ASN:OD1	1.99	0.61
1:B:372:SER:O	1:B:375:ARG:HB2	1.99	0.61
1:A:110:THR:HG22	1:A:111:ASN:N	2.14	0.61
1:B:204:THR:HG22	1:B:212:MET:SD	2.40	0.61
1:A:181:LYS:HE2	1:A:202:LYS:HG2	1.80	0.61
1:A:296:PRO:HB2	1:A:417:MET:SD	2.39	0.61
1:A:1016:MET:HE2	1:A:1033:PHE:HB3	1.82	0.61
1:A:41:THR:HG22	1:A:502:THR:HA	1.81	0.61
1:A:873:THR:HG23	1:A:982:SER:CA	2.30	0.61
1:B:110:THR:HG22	1:B:111:ASN:N	2.14	0.61
1:B:706:VAL:HG22	1:B:707:ASP:N	2.12	0.61
1:A:175:TYR:CD2	1:A:179:ASP:HB3	2.36	0.61
1:A:204:THR:HG22	1:A:212:MET:SD	2.40	0.61
1:A:410:ALA:HB1	1:A:411:PRO:CD	2.30	0.61
1:A:488:LYS:HG3	1:A:489:ASP:N	2.14	0.61
1:A:480:VAL:HG11	1:A:495:ILE:HD11	1.81	0.61
1:A:474:VAL:CG2	1:A:495:ILE:HD13	2.29	0.61
1:A:712:PRO:HG3	1:A:801:TYR:OH	2.01	0.61
1:A:806:MET:CG	1:A:807:ARG:HG3	2.30	0.61
1:B:833:LEU:HB2	1:B:836:HIS:CD2	2.29	0.61
1:A:119:ILE:HD13	1:A:121:TYR:CZ	2.36	0.61
1:A:532:HIS:HA	1:A:641:THR:HG21	1.82	0.61
1:B:410:ALA:HB1	1:B:411:PRO:CD	2.30	0.61
1:B:41:THR:HG22	1:B:502:THR:HG23	1.83	0.61
1:A:257:THR:C	1:A:258:LEU:HD12	2.21	0.61
1:A:696:LEU:N	1:A:696:LEU:HD12	2.15	0.61
1:B:175:TYR:CD2	1:B:179:ASP:HB3	2.36	0.61
1:B:181:LYS:HZ3	1:B:216:VAL:HG23	1.66	0.61
1:B:333:LEU:CD2	1:B:358:ILE:HG13	2.31	0.61
1:B:46:PRO:HD2	1:B:71:TYR:CE1	2.35	0.61
1:B:847:LEU:HD11	1:B:850:ALA:CA	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:474:VAL:HG22	1:A:495:ILE:CG2	2.29	0.60
1:A:569:VAL:HB	1:A:654:ASN:HB2	1.83	0.60
1:A:665:VAL:HG12	1:A:697:PRO:HG3	1.83	0.60
1:A:706:VAL:HG22	1:A:707:ASP:N	2.12	0.60
1:B:488:LYS:HG3	1:B:489:ASP:N	2.14	0.60
1:A:870:GLU:CG	1:A:1025:ALA:N	2.64	0.60
1:A:313:TYR:CE1	1:A:435:ILE:HG12	2.37	0.60
1:A:469:TYR:HE2	1:A:471:THR:HB	1.65	0.60
1:B:444:LEU:CD2	1:B:524:PRO:HG3	2.23	0.60
1:B:548:ARG:HG2	1:B:584:PRO:HA	1.83	0.60
1:B:95:TYR:CG	1:B:96:PRO:HD3	2.36	0.60
1:A:715:VAL:CG2	1:A:717:LYS:HD2	2.30	0.60
1:B:257:THR:C	1:B:258:LEU:HD12	2.21	0.60
1:B:99:ILE:HG13	1:B:100:VAL:N	2.16	0.60
1:A:314:LEU:HD12	1:A:333:LEU:O	2.01	0.60
1:B:773:ILE:HD13	1:B:773:ILE:N	2.17	0.60
1:A:919:GLU:HB3	1:A:1024:ARG:NH1	2.16	0.60
1:A:963:GLY:O	1:A:1036:VAL:HG22	2.01	0.60
1:B:313:TYR:CE1	1:B:435:ILE:HG12	2.37	0.60
1:B:314:LEU:HD12	1:B:333:LEU:O	2.01	0.60
1:B:712:PRO:HG3	1:B:801:TYR:OH	2.01	0.60
1:A:333:LEU:CD2	1:A:358:ILE:HG13	2.31	0.60
1:A:46:PRO:HD2	1:A:71:TYR:CE1	2.35	0.60
1:A:773:ILE:HD13	1:A:773:ILE:N	2.17	0.60
1:B:46:PRO:HD2	1:B:71:TYR:CZ	2.36	0.60
1:A:320:VAL:HG21	1:A:442:HIS:HD2	1.64	0.60
1:A:403:PHE:CZ	1:A:406:LEU:HD23	2.37	0.60
1:A:62:ILE:HD13	1:A:77:LEU:CD2	2.32	0.60
1:A:630:HIS:HD2	1:A:632:VAL:CG2	2.15	0.60
1:B:181:LYS:HZ2	1:B:216:VAL:HG23	1.64	0.60
1:B:495:ILE:CG2	1:B:502:THR:HB	2.32	0.60
1:B:182:LEU:HG	1:B:184:ILE:HG23	1.82	0.60
1:B:323:ARG:HH21	1:B:463:LYS:HD2	1.67	0.60
1:B:119:ILE:HD13	1:B:121:TYR:CZ	2.36	0.60
1:B:171:VAL:O	1:B:182:LEU:HD12	2.02	0.60
1:B:403:PHE:CZ	1:B:406:LEU:HD23	2.37	0.60
1:B:469:TYR:CE2	1:B:471:THR:HB	2.36	0.60
1:B:665:VAL:HG12	1:B:697:PRO:HG3	1.83	0.60
1:B:662:LEU:HD11	1:B:702:GLN:HE22	1.65	0.60
1:B:72:LYS:CD	1:B:80:LEU:HD12	2.30	0.60
1:A:1029:GLN:HG2	1:A:1030:ASP:H	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:387:VAL:HG13	1:B:388:LYS:HG3	1.83	0.60
1:A:1002:TYR:CE2	1:A:1004:ILE:HB	2.37	0.59
1:A:991:GLN:HG3	1:A:1008:THR:HG21	1.84	0.59
1:B:154:LYS:N	1:B:157:HIS:HD2	2.00	0.59
1:A:99:ILE:HG13	1:A:100:VAL:N	2.16	0.59
1:A:387:VAL:HG13	1:A:388:LYS:HG3	1.83	0.59
1:A:469:TYR:CE2	1:A:471:THR:HB	2.36	0.59
1:A:566:ASN:CA	1:A:651:VAL:HG23	2.28	0.59
1:A:95:TYR:CG	1:A:96:PRO:HD3	2.36	0.59
1:B:243:TYR:CD2	1:B:257:THR:HG22	2.37	0.59
1:B:873:THR:HB	1:B:917:MET:HE2	1.84	0.59
1:A:271:LYS:HG3	1:A:272:GLU:N	2.13	0.59
1:A:432:THR:HG1	1:A:480:VAL:HG23	1.65	0.59
1:A:457:ILE:HG12	1:A:467:LEU:HD13	1.84	0.59
1:A:560:LEU:HD23	1:A:648:THR:CG2	2.25	0.59
1:A:847:LEU:HD11	1:A:850:ALA:CA	2.29	0.59
1:B:197:THR:HG21	1:B:228:ILE:HD11	1.82	0.59
1:B:239:PHE:CA	1:B:260:PRO:HG2	2.30	0.59
1:B:387:VAL:HG13	1:B:388:LYS:N	2.18	0.59
1:B:665:VAL:HG11	1:B:697:PRO:HD3	1.84	0.59
1:A:243:TYR:CD2	1:A:257:THR:HG22	2.37	0.59
1:A:46:PRO:HD2	1:A:71:TYR:CZ	2.37	0.59
1:A:904:VAL:HG13	1:A:905:ASP:N	2.18	0.59
1:A:931:ILE:O	1:A:931:ILE:HG13	2.02	0.59
1:A:987:MET:HB2	1:A:1019:THR:HG23	1.83	0.59
1:A:40:VAL:HG13	1:A:503:ARG:HB3	1.85	0.59
1:A:41:THR:HG22	1:A:502:THR:HG23	1.82	0.59
1:A:62:ILE:HD12	1:A:501:LEU:CD1	2.33	0.59
1:A:833:LEU:HB2	1:A:836:HIS:CD2	2.28	0.59
1:A:994:LEU:CG	1:A:1006:ASN:HB2	2.31	0.59
1:B:453:LYS:HG2	1:B:472:VAL:CG2	2.16	0.59
1:B:548:ARG:CG	1:B:583:VAL:O	2.50	0.59
1:B:904:VAL:HG13	1:B:905:ASP:N	2.18	0.59
1:A:196:PRO:HB3	1:A:225:MET:CE	2.33	0.59
1:A:889:ILE:HD12	1:A:907:TYR:CZ	2.38	0.59
1:B:473:GLN:H	1:B:473:GLN:NE2	2.01	0.59
1:B:630:HIS:HD2	1:B:632:VAL:CG2	2.15	0.59
1:B:931:ILE:HG13	1:B:931:ILE:O	2.02	0.59
1:A:972:THR:HA	1:A:1002:TYR:CE1	2.32	0.59
1:B:62:ILE:HD13	1:B:77:LEU:CD2	2.32	0.59
1:A:323:ARG:HH21	1:A:463:LYS:HD2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:439:TYR:CZ	1:A:538:LYS:NZ	2.70	0.59
1:A:563:HIS:HB3	1:A:564:PRO:CD	2.28	0.59
1:B:349:LEU:HD22	1:B:349:LEU:N	2.18	0.59
1:B:578:LEU:HD13	1:B:636:LEU:HD21	1.85	0.59
1:A:814:LEU:HD22	1:A:847:LEU:N	2.18	0.59
1:A:959:LYS:CG	1:A:972:THR:HB	2.33	0.59
1:B:40:VAL:HG13	1:B:503:ARG:HB3	1.85	0.59
1:B:937:ARG:HG2	1:B:938:PRO:HD2	1.85	0.59
1:A:171:VAL:O	1:A:182:LEU:HD12	2.02	0.58
1:A:495:ILE:CG2	1:A:502:THR:HB	2.32	0.58
1:A:530:VAL:HG11	1:A:584:PRO:HD2	1.84	0.58
1:A:759:VAL:HG12	1:A:760:GLN:N	2.18	0.58
1:A:955:LEU:CD1	1:A:973:ILE:HG23	2.33	0.58
1:B:457:ILE:HG12	1:B:467:LEU:HD13	1.84	0.58
1:B:814:LEU:HD22	1:B:847:LEU:N	2.18	0.58
1:A:387:VAL:HG13	1:A:388:LYS:N	2.18	0.58
1:A:62:ILE:HG12	1:A:73:LEU:HB2	1.84	0.58
1:A:870:GLU:CG	1:A:1024:ARG:CG	2.69	0.58
1:B:271:LYS:HG3	1:B:272:GLU:N	2.13	0.58
1:A:349:LEU:N	1:A:349:LEU:HD22	2.18	0.58
1:A:665:VAL:HG11	1:A:697:PRO:HD3	1.84	0.58
1:B:560:LEU:HD23	1:B:648:THR:CG2	2.25	0.58
1:A:110:THR:HB	1:A:132:LEU:HD23	1.85	0.58
1:A:506:VAL:HG22	1:A:525:HIS:NE2	2.18	0.58
1:B:263:VAL:O	1:B:263:VAL:HG12	2.04	0.58
1:B:426:GLU:HA	1:B:426:GLU:OE1	2.04	0.58
1:B:198:ILE:HB	1:B:226:ILE:CG2	2.34	0.58
1:A:350:ASP:HA	1:A:430:ARG:HB2	1.86	0.58
1:A:473:GLN:H	1:A:473:GLN:NE2	2.01	0.58
1:A:949:TYR:CE2	1:A:951:MET:HE1	2.38	0.58
1:B:188:VAL:HG22	1:B:191:LYS:N	2.18	0.58
1:B:653:TYR:HE2	1:B:682:HIS:CE1	2.21	0.58
1:B:832:THR:HG23	1:B:836:HIS:HB2	1.85	0.58
1:B:889:ILE:HD12	1:B:907:TYR:CZ	2.38	0.58
1:A:426:GLU:OE1	1:A:426:GLU:HA	2.04	0.58
1:A:430:ARG:HH21	1:A:432:THR:HG22	1.68	0.58
1:A:578:LEU:HD13	1:A:636:LEU:HD21	1.85	0.58
1:A:814:LEU:HD22	1:A:847:LEU:H	1.68	0.58
1:A:873:THR:HA	1:A:982:SER:N	2.17	0.58
1:B:110:THR:HB	1:B:132:LEU:HD23	1.85	0.58
1:B:196:PRO:HB3	1:B:225:MET:CE	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:51:ASN:HD21	1:B:67:VAL:CG2	2.15	0.58
1:B:759:VAL:HG12	1:B:760:GLN:N	2.18	0.58
1:A:1021:GLN:CG	1:A:1026:ARG:HG3	2.34	0.58
1:A:456:LYS:O	1:A:468:GLN:HG2	2.04	0.58
1:A:585:GLU:OE1	1:A:585:GLU:HA	2.04	0.58
1:A:873:THR:HG23	1:A:982:SER:HA	1.86	0.58
1:B:254:TYR:CZ	1:B:281:ARG:HD2	2.39	0.58
1:B:430:ARG:HH21	1:B:432:THR:HG22	1.68	0.58
1:B:62:ILE:HD12	1:B:501:LEU:CD1	2.33	0.58
1:A:972:THR:CA	1:A:1002:TYR:HE1	2.15	0.58
1:B:456:LYS:O	1:B:468:GLN:HG2	2.04	0.58
1:B:566:ASN:CA	1:B:651:VAL:HG23	2.28	0.58
1:A:254:TYR:CZ	1:A:281:ARG:HD2	2.39	0.57
1:A:703:LEU:HD21	1:A:782:VAL:HG21	1.86	0.57
1:B:505:PRO:HB2	1:B:507:GLU:O	2.03	0.57
1:A:937:ARG:HG2	1:A:938:PRO:HD2	1.85	0.57
1:A:994:LEU:HG	1:A:1006:ASN:HB2	1.87	0.57
1:A:458:ARG:HD2	1:A:524:PRO:HG3	1.86	0.57
1:A:1018:VAL:HG13	1:A:1018:VAL:O	2.04	0.57
1:A:892:HIS:CE1	1:A:931:ILE:HB	2.40	0.57
1:A:874:LYS:N	1:A:982:SER:CB	2.66	0.57
1:B:350:ASP:HA	1:B:430:ARG:HB2	1.86	0.57
1:A:154:LYS:N	1:A:157:HIS:HD2	2.00	0.57
1:A:265:PRO:HD3	1:A:274:VAL:HG21	1.87	0.57
1:B:370:LEU:HD21	1:B:374:TYR:CE1	2.39	0.57
1:A:198:ILE:HB	1:A:226:ILE:CG2	2.34	0.57
1:A:262:MET:HG3	1:A:262:MET:O	2.05	0.57
1:A:532:HIS:HA	1:A:641:THR:CB	2.35	0.57
1:A:188:VAL:HG22	1:A:191:LYS:N	2.18	0.57
1:A:263:VAL:O	1:A:263:VAL:HG12	2.04	0.57
1:A:324:THR:CG2	1:A:462:PRO:HA	2.34	0.57
1:A:370:LEU:HD21	1:A:374:TYR:CE1	2.39	0.57
1:A:458:ARG:CG	1:A:524:PRO:HG3	2.34	0.57
1:A:51:ASN:HD21	1:A:67:VAL:CG2	2.15	0.57
1:A:832:THR:HG23	1:A:836:HIS:HB2	1.85	0.57
1:B:265:PRO:HD3	1:B:274:VAL:HG21	1.87	0.57
1:B:42:PHE:CE2	1:B:50:PHE:HZ	2.23	0.57
1:B:433:SER:HB3	1:B:484:MET:SD	2.45	0.57
1:A:239:PHE:CA	1:A:260:PRO:HG2	2.30	0.57
1:A:459:VAL:O	1:A:459:VAL:HG23	2.05	0.57
1:A:45:GLU:HB3	1:A:46:PRO:CD	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:434:VAL:HG22	1:B:435:ILE:N	2.20	0.57
1:B:459:VAL:HG23	1:B:459:VAL:O	2.05	0.57
1:A:446:PHE:CE1	1:A:486:PHE:CZ	2.93	0.57
1:B:262:MET:O	1:B:262:MET:HG3	2.05	0.57
1:A:1013:VAL:HG22	1:A:1014:LEU:N	2.19	0.56
1:A:926:ALA:CB	1:A:947:LEU:HD12	2.35	0.56
1:B:665:VAL:CG1	1:B:697:PRO:HD3	2.35	0.56
1:A:435:ILE:CG2	1:A:486:PHE:HE1	2.19	0.56
1:A:501:LEU:HD23	1:A:502:THR:H	1.70	0.56
1:A:820:PHE:O	1:A:821:GLU:HB3	2.05	0.56
1:B:444:LEU:HD23	1:B:524:PRO:CD	2.35	0.56
1:A:305:GLU:O	1:A:340:LYS:HG3	2.06	0.56
1:A:434:VAL:HG22	1:A:435:ILE:N	2.20	0.56
1:B:53:LEU:HG	1:B:64:LEU:HD13	1.87	0.56
1:B:882:LEU:N	1:B:882:LEU:HD12	2.21	0.56
1:A:882:LEU:HD12	1:A:882:LEU:N	2.21	0.56
1:B:116:MET:HG3	1:B:117:LEU:N	2.20	0.56
1:B:41:THR:CG2	1:B:502:THR:HG23	2.36	0.56
1:A:42:PHE:CE2	1:A:50:PHE:HZ	2.23	0.56
1:A:955:LEU:HG	1:A:973:ILE:HG23	1.86	0.56
1:B:305:GLU:O	1:B:340:LYS:HG3	2.06	0.56
1:B:45:GLU:HB3	1:B:46:PRO:CD	2.35	0.56
1:B:785:ASN:HD22	1:B:788:PHE:HE2	1.54	0.56
1:B:885:GLU:HG3	1:B:887:ARG:H	1.70	0.56
1:A:665:VAL:CG1	1:A:697:PRO:HD3	2.35	0.56
1:B:585:GLU:OE1	1:B:585:GLU:HA	2.04	0.56
1:B:700:CYS:HB3	1:B:701:PRO:HD2	1.81	0.56
1:B:710:LEU:HB2	1:B:801:TYR:HE1	1.70	0.56
1:B:814:LEU:HD22	1:B:847:LEU:H	1.69	0.56
1:A:865:VAL:HG13	1:A:866:THR:N	2.21	0.56
1:B:892:HIS:CE1	1:B:931:ILE:HB	2.40	0.56
1:A:474:VAL:CG2	1:A:495:ILE:HG21	2.35	0.56
1:A:785:ASN:ND2	1:A:788:PHE:HE2	2.03	0.56
1:B:324:THR:CG2	1:B:462:PRO:HA	2.34	0.56
1:B:446:PHE:CE1	1:B:486:PHE:CZ	2.93	0.56
1:B:526:CYS:HB3	1:B:535:CYS:SG	2.46	0.56
1:B:804:GLY:HA2	1:B:806:MET:CE	2.36	0.56
1:A:226:ILE:O	1:A:226:ILE:HG23	2.06	0.56
1:A:321:LEU:HD12	1:A:462:PRO:CG	2.34	0.56
1:A:41:THR:CG2	1:A:502:THR:HG23	2.35	0.56
1:A:549:ARG:HA	1:A:584:PRO:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:569:VAL:HB	1:A:654:ASN:CB	2.36	0.56
1:A:885:GLU:HG3	1:A:887:ARG:H	1.70	0.56
1:B:118:LEU:HB3	1:B:127:ILE:CG2	2.36	0.56
1:B:435:ILE:CG2	1:B:486:PHE:HE1	2.19	0.56
1:B:567:ILE:N	1:B:567:ILE:HD13	2.20	0.56
1:B:569:VAL:HG21	1:B:654:ASN:HB2	1.87	0.56
1:A:983:ASN:O	1:A:1022:VAL:HG23	2.06	0.56
1:A:118:LEU:HB3	1:A:127:ILE:CG2	2.36	0.56
1:A:42:PHE:HE2	1:A:50:PHE:HZ	1.54	0.56
1:A:526:CYS:HB3	1:A:535:CYS:SG	2.46	0.56
1:A:567:ILE:HD13	1:A:567:ILE:N	2.20	0.56
1:A:447:VAL:HG23	1:A:447:VAL:O	2.06	0.56
1:A:53:LEU:HG	1:A:64:LEU:HD13	1.87	0.56
1:A:46:PRO:CG	1:A:69:ARG:HD2	2.36	0.56
1:B:505:PRO:HB3	1:B:507:GLU:O	2.04	0.56
1:B:785:ASN:ND2	1:B:788:PHE:HE2	2.03	0.56
1:B:865:VAL:HG13	1:B:866:THR:N	2.21	0.56
1:A:1022:VAL:HG13	1:A:1022:VAL:O	2.06	0.55
1:A:433:SER:HB3	1:A:484:MET:SD	2.45	0.55
1:A:704:LEU:HD11	1:A:724:LYS:CE	2.35	0.55
1:A:710:LEU:HB2	1:A:801:TYR:HE1	1.70	0.55
1:A:460:ASP:OD2	1:A:463:LYS:HB3	2.06	0.55
1:A:873:THR:HB	1:A:917:MET:HE2	1.86	0.55
1:A:949:TYR:HE2	1:A:951:MET:HE1	1.71	0.55
1:B:46:PRO:CG	1:B:69:ARG:HD2	2.36	0.55
1:A:435:ILE:HD12	1:A:486:PHE:HD1	1.70	0.55
1:A:474:VAL:HG12	1:A:475:VAL:N	2.21	0.55
1:A:548:ARG:HG3	1:A:583:VAL:C	2.26	0.55
1:A:619:VAL:CB	1:A:620:PRO:HD3	2.36	0.55
1:A:845:LEU:HD13	1:A:845:LEU:C	2.26	0.55
1:B:412:LEU:N	1:B:412:LEU:HD13	2.21	0.55
1:B:501:LEU:HD23	1:B:502:THR:H	1.70	0.55
1:B:62:ILE:HG12	1:B:73:LEU:HB2	1.84	0.55
1:B:807:ARG:HD3	1:B:812:LEU:O	2.07	0.55
1:A:382:LEU:HD23	1:A:385:LEU:CB	2.36	0.55
1:B:110:THR:HG22	1:B:111:ASN:H	1.72	0.55
1:B:190:GLY:O	1:B:192:PRO:HD3	2.07	0.55
1:B:359:LEU:HA	1:B:362:ILE:HG12	1.89	0.55
1:B:447:VAL:O	1:B:447:VAL:HG23	2.06	0.55
1:B:474:VAL:CG2	1:B:495:ILE:HG21	2.34	0.55
1:B:703:LEU:HD21	1:B:782:VAL:HG21	1.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:713:VAL:HG13	1:B:766:TYR:O	2.06	0.55
1:A:448:GLY:HA3	1:A:480:VAL:CG2	2.37	0.55
1:B:51:ASN:ND2	1:B:67:VAL:HG23	2.20	0.55
1:B:710:LEU:HB2	1:B:801:TYR:CE1	2.42	0.55
1:B:820:PHE:O	1:B:821:GLU:HB3	2.06	0.55
1:B:845:LEU:C	1:B:845:LEU:HD13	2.26	0.55
1:B:91:ASN:CG	1:B:92:PRO:HD2	2.27	0.55
1:B:949:TYR:HE2	1:B:951:MET:HE2	1.71	0.55
1:A:1014:LEU:H	1:A:1014:LEU:CD2	2.17	0.55
1:A:713:VAL:HG13	1:A:766:TYR:O	2.06	0.55
1:A:825:CYS:HB3	1:A:828:PRO:HG2	1.89	0.55
1:A:861:GLU:HG3	1:A:862:ILE:N	2.21	0.55
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.27	0.55
1:B:280:VAL:HG12	1:B:281:ARG:N	2.22	0.55
1:B:72:LYS:HD2	1:B:80:LEU:HB2	1.87	0.55
1:A:168:VAL:HG22	1:A:169:PHE:N	2.22	0.55
1:A:190:GLY:O	1:A:192:PRO:HD3	2.07	0.55
1:A:280:VAL:HG12	1:A:281:ARG:N	2.22	0.55
1:A:509:CYS:HB3	1:A:535:CYS:SG	2.47	0.55
1:B:226:ILE:O	1:B:226:ILE:HG23	2.06	0.55
1:B:380:LEU:HB2	1:B:386:LYS:HE2	1.87	0.55
1:B:42:PHE:HE2	1:B:50:PHE:HZ	1.54	0.55
1:A:116:MET:HG3	1:A:117:LEU:N	2.21	0.55
1:B:242:TYR:CD1	1:B:345:LYS:HE2	2.41	0.55
1:B:619:VAL:CB	1:B:620:PRO:HD3	2.36	0.55
1:B:937:ARG:HG3	1:B:938:PRO:HD2	1.89	0.55
1:A:988:PHE:HD2	1:A:1016:MET:SD	2.30	0.55
1:A:242:TYR:CD1	1:A:345:LYS:HE2	2.41	0.55
1:A:380:LEU:HB2	1:A:386:LYS:HE2	1.87	0.55
1:B:380:LEU:CD1	1:B:386:LYS:HE3	2.37	0.55
1:B:501:LEU:HD23	1:B:502:THR:N	2.22	0.55
1:A:239:PHE:HA	1:A:260:PRO:CG	2.32	0.55
1:A:370:LEU:HD13	1:A:370:LEU:O	2.07	0.55
1:A:501:LEU:HD23	1:A:502:THR:N	2.22	0.55
1:A:72:LYS:HD2	1:A:80:LEU:HB2	1.87	0.55
1:A:804:GLY:HA2	1:A:806:MET:CE	2.36	0.55
1:A:1016:MET:HE3	1:A:1017:LYS:CA	2.38	0.54
1:A:597:LEU:HD22	1:A:597:LEU:N	2.21	0.54
1:B:168:VAL:HG22	1:B:169:PHE:N	2.22	0.54
1:B:370:LEU:HD13	1:B:370:LEU:O	2.07	0.54
1:B:597:LEU:N	1:B:597:LEU:HD22	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:704:LEU:HD11	1:B:724:LYS:CE	2.35	0.54
1:A:785:ASN:HD22	1:A:788:PHE:HE2	1.54	0.54
1:A:797:LYS:HD2	1:A:797:LYS:H	1.72	0.54
1:B:382:LEU:HD23	1:B:385:LEU:CB	2.37	0.54
1:B:435:ILE:HD12	1:B:486:PHE:HD1	1.71	0.54
1:B:930:GLU:OE2	1:B:941:MET:HG3	2.07	0.54
1:A:471:THR:CG2	1:A:473:GLN:HE22	2.20	0.54
1:A:46:PRO:CG	1:A:69:ARG:HG3	2.27	0.54
1:A:710:LEU:HB2	1:A:801:TYR:CE1	2.41	0.54
1:A:709:ILE:O	1:A:799:TYR:HD1	1.91	0.54
1:A:72:LYS:HD2	1:A:80:LEU:HD12	1.90	0.54
1:A:874:LYS:H	1:A:982:SER:CB	2.20	0.54
1:B:236:ILE:O	1:B:236:ILE:HG23	2.07	0.54
1:B:370:LEU:C	1:B:370:LEU:HD13	2.27	0.54
1:B:440:LYS:HB2	1:B:538:LYS:NZ	2.22	0.54
1:B:72:LYS:HD2	1:B:80:LEU:HD12	1.90	0.54
1:A:301:ARG:CD	1:A:425:THR:HG21	2.26	0.54
1:A:556:GLN:O	1:A:582:ASN:CB	2.56	0.54
1:A:947:LEU:CD2	1:A:947:LEU:H	2.21	0.54
1:B:460:ASP:OD2	1:B:463:LYS:HB3	2.06	0.54
1:A:151:PRO:O	1:A:157:HIS:HB3	2.07	0.54
1:A:359:LEU:HA	1:A:362:ILE:HG12	1.89	0.54
1:A:63:TYR:CE2	1:A:72:LYS:HG2	2.43	0.54
1:B:474:VAL:HG12	1:B:475:VAL:N	2.21	0.54
1:B:509:CYS:HB3	1:B:535:CYS:SG	2.47	0.54
1:A:412:LEU:C	1:A:412:LEU:HD22	2.28	0.54
1:A:994:LEU:HD11	1:A:1006:ASN:CB	2.37	0.54
1:B:412:LEU:HD22	1:B:412:LEU:C	2.28	0.54
1:B:426:GLU:HG2	1:B:429:ASP:O	2.08	0.54
1:A:495:ILE:O	1:A:495:ILE:HG23	2.08	0.54
1:A:699:ASP:HA	1:A:725:ASN:OD1	2.07	0.54
1:A:739:ILE:HB	1:A:781:THR:HG22	1.90	0.54
1:B:154:LYS:HB2	1:B:157:HIS:HD2	1.70	0.54
1:B:151:PRO:O	1:B:157:HIS:HB3	2.08	0.54
1:B:471:THR:CG2	1:B:473:GLN:HE22	2.20	0.54
1:A:236:ILE:O	1:A:236:ILE:HG23	2.07	0.54
1:A:370:LEU:HD13	1:A:370:LEU:C	2.27	0.54
1:A:429:ASP:OD1	1:A:450:LYS:HB3	2.08	0.54
1:A:930:GLU:OE2	1:A:941:MET:HG3	2.07	0.54
1:B:370:LEU:HD11	1:B:399:ILE:HD12	1.88	0.54
1:B:797:LYS:HD2	1:B:797:LYS:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:135:GLY:O	1:A:159:LEU:HD13	2.08	0.54
1:A:175:TYR:HB3	1:A:179:ASP:HB3	1.89	0.54
1:A:412:LEU:HD13	1:A:412:LEU:N	2.21	0.54
1:A:531:LEU:O	1:A:641:THR:OG1	2.25	0.54
1:A:780:LEU:HD12	1:A:780:LEU:C	2.27	0.54
1:A:662:LEU:HD23	1:A:791:ASP:OD2	2.08	0.54
1:B:861:GLU:HG3	1:B:862:ILE:N	2.21	0.54
1:A:370:LEU:HD11	1:A:399:ILE:HD12	1.88	0.54
1:A:51:ASN:ND2	1:A:67:VAL:HG23	2.20	0.54
1:B:175:TYR:HB3	1:B:179:ASP:HB3	1.89	0.54
1:B:716:ILE:HG12	1:B:763:ASN:HB3	1.90	0.54
1:B:780:LEU:C	1:B:780:LEU:HD12	2.27	0.54
1:B:825:CYS:HB3	1:B:828:PRO:HG2	1.89	0.54
1:B:301:ARG:CD	1:B:425:THR:HG21	2.26	0.53
1:B:921:LYS:N	1:B:922:PRO:HD2	2.23	0.53
1:B:947:LEU:CD2	1:B:947:LEU:H	2.21	0.53
1:A:110:THR:HG22	1:A:111:ASN:H	1.72	0.53
1:A:225:MET:HE1	1:A:227:LYS:CG	2.37	0.53
1:A:955:LEU:CG	1:A:973:ILE:HG23	2.38	0.53
1:A:957:ASP:O	1:A:974:THR:HG22	2.08	0.53
1:B:63:TYR:CE2	1:B:72:LYS:HG2	2.43	0.53
1:B:926:ALA:CB	1:B:947:LEU:HD12	2.35	0.53
1:B:925:HIS:O	1:B:950:PHE:HD2	1.91	0.53
1:A:739:ILE:HB	1:A:781:THR:HG23	1.90	0.53
1:A:921:LYS:N	1:A:922:PRO:HD2	2.23	0.53
1:A:924:GLN:O	1:A:925:HIS:HB2	2.09	0.53
1:A:426:GLU:HG2	1:A:429:ASP:O	2.08	0.53
1:A:589:GLY:HA3	1:A:639:LYS:HG3	1.90	0.53
1:A:807:ARG:HD3	1:A:812:LEU:O	2.07	0.53
1:A:867:GLY:CA	1:A:981:GLY:N	2.49	0.53
1:B:429:ASP:OD1	1:B:450:LYS:HB3	2.08	0.53
1:B:623:ILE:C	1:B:623:ILE:HD12	2.28	0.53
1:B:924:GLN:O	1:B:925:HIS:HB2	2.09	0.53
1:A:321:LEU:CD2	1:A:325:LEU:HD11	2.39	0.53
1:A:533:ASN:HD22	1:A:643:MET:HB3	1.73	0.53
1:A:827:SER:HB2	1:A:828:PRO:HD3	1.91	0.53
1:B:181:LYS:CE	1:B:202:LYS:HG2	2.39	0.53
1:B:371:GLN:O	1:B:375:ARG:HG3	2.09	0.53
1:B:385:LEU:HD13	1:B:385:LEU:C	2.29	0.53
1:B:578:LEU:HB2	1:B:609:ILE:HB	1.91	0.53
1:B:709:ILE:O	1:B:799:TYR:HD1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:ALA:HB3	1:A:243:TYR:CG	2.44	0.53
1:A:509:CYS:HB2	1:A:536:THR:HA	1.91	0.53
1:A:623:ILE:HD12	1:A:623:ILE:C	2.29	0.53
1:A:679:VAL:HG12	1:A:680:CYS:N	2.23	0.53
1:A:716:ILE:HG12	1:A:763:ASN:HB3	1.90	0.53
1:B:278:LYS:HG2	1:B:296:PRO:CA	2.38	0.53
1:B:321:LEU:CD2	1:B:325:LEU:HD11	2.39	0.53
1:B:563:HIS:HB3	1:B:564:PRO:CD	2.28	0.53
1:A:190:GLY:HA2	1:A:233:PHE:HE2	1.73	0.53
1:A:549:ARG:CD	1:A:584:PRO:HB2	2.33	0.53
1:A:805:ALA:H	1:A:806:MET:CE	2.22	0.53
1:B:39:PHE:CD1	1:B:505:PRO:HD2	2.44	0.53
1:B:356:ILE:HG22	1:B:421:ILE:O	2.09	0.53
1:B:448:GLY:HA3	1:B:480:VAL:CG2	2.37	0.53
1:B:739:ILE:HB	1:B:781:THR:HG22	1.90	0.53
1:B:947:LEU:HD23	1:B:947:LEU:O	2.09	0.53
1:A:997:ARG:H	1:A:1004:ILE:CG2	2.22	0.53
1:A:963:GLY:C	1:A:1036:VAL:HG22	2.29	0.53
1:A:119:ILE:O	1:A:119:ILE:HG23	2.09	0.53
1:A:385:LEU:HD13	1:A:385:LEU:C	2.29	0.53
1:A:356:ILE:HG22	1:A:421:ILE:O	2.09	0.53
1:A:925:HIS:O	1:A:950:PHE:HD2	1.91	0.53
1:A:958:LEU:HD23	1:A:959:LYS:H	1.73	0.53
1:B:198:ILE:HB	1:B:226:ILE:HG22	1.91	0.53
1:B:308:LEU:O	1:B:338:PHE:HA	2.09	0.53
1:B:716:ILE:HG23	1:B:716:ILE:O	2.09	0.53
1:A:575:LEU:H	1:A:575:LEU:CD2	2.22	0.53
1:A:937:ARG:HG3	1:A:938:PRO:HD2	1.89	0.53
1:A:1032:VAL:HG12	1:A:1033:PHE:N	2.23	0.53
1:A:308:LEU:O	1:A:338:PHE:HA	2.09	0.53
1:A:40:VAL:HG11	1:A:503:ARG:NH2	2.24	0.53
1:A:578:LEU:HB2	1:A:609:ILE:HB	1.91	0.53
1:A:805:ALA:N	1:A:806:MET:HE3	2.24	0.53
1:A:807:ARG:HD2	1:A:813:CYS:HA	1.90	0.53
1:B:882:LEU:HD13	1:B:910:ALA:O	2.09	0.53
1:A:181:LYS:CE	1:A:202:LYS:HG2	2.39	0.52
1:A:580:THR:HG21	1:A:583:VAL:HG11	1.91	0.52
1:A:806:MET:HG2	1:A:807:ARG:CG	2.39	0.52
1:A:875:VAL:HG22	1:A:915:CYS:O	2.09	0.52
1:A:933:VAL:HG22	1:A:940:PHE:HB3	1.91	0.52
1:B:40:VAL:HG11	1:B:503:ARG:NH2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1019:THR:HG23	1:A:1019:THR:O	2.10	0.52
1:A:716:ILE:HG23	1:A:716:ILE:O	2.09	0.52
1:A:947:LEU:O	1:A:947:LEU:HD23	2.09	0.52
1:A:952:THR:HG23	1:A:952:THR:O	2.08	0.52
1:A:959:LYS:HG2	1:A:972:THR:CG2	2.39	0.52
1:B:495:ILE:HG23	1:B:495:ILE:O	2.08	0.52
1:B:439:TYR:CZ	1:B:538:LYS:CE	2.92	0.52
1:B:64:LEU:N	1:B:64:LEU:HD22	2.24	0.52
1:B:783:VAL:HG12	1:B:784:TRP:N	2.25	0.52
1:B:807:ARG:HD2	1:B:813:CYS:HA	1.90	0.52
1:A:1004:ILE:HG23	1:A:1004:ILE:O	2.08	0.52
1:A:281:ARG:O	1:A:282:LEU:HD23	2.09	0.52
1:A:827:SER:HB2	1:A:828:PRO:CD	2.39	0.52
1:B:135:GLY:O	1:B:159:LEU:HD13	2.08	0.52
1:B:321:LEU:HD12	1:B:462:PRO:CG	2.34	0.52
1:B:679:VAL:HG12	1:B:680:CYS:N	2.23	0.52
1:B:185:ALA:HB3	1:B:243:TYR:CG	2.44	0.52
1:B:589:GLY:HA3	1:B:639:LYS:HG3	1.90	0.52
1:B:739:ILE:HB	1:B:781:THR:HG23	1.90	0.52
1:B:827:SER:HB2	1:B:828:PRO:CD	2.40	0.52
1:A:42:PHE:HZ	1:A:45:GLU:CB	2.22	0.52
1:B:127:ILE:O	1:B:127:ILE:HG23	2.09	0.52
1:B:281:ARG:O	1:B:282:LEU:HD23	2.09	0.52
1:A:868:PRO:CG	1:A:1022:VAL:HG21	2.40	0.52
1:A:296:PRO:HD2	1:A:414:VAL:HG22	1.92	0.52
1:A:371:GLN:O	1:A:375:ARG:HG3	2.09	0.52
1:A:882:LEU:HD13	1:A:910:ALA:O	2.09	0.52
1:B:630:HIS:HD2	1:B:632:VAL:HG23	1.73	0.52
1:B:875:VAL:HG22	1:B:915:CYS:O	2.09	0.52
1:A:560:LEU:HG	1:A:648:THR:HG21	1.92	0.52
1:B:396:LEU:C	1:B:396:LEU:HD13	2.30	0.52
1:B:439:TYR:CZ	1:B:538:LYS:NZ	2.75	0.52
1:A:566:ASN:HB3	1:A:651:VAL:CG2	2.40	0.52
1:A:593:THR:HG23	1:A:593:THR:O	2.10	0.52
1:A:64:LEU:N	1:A:64:LEU:HD22	2.24	0.52
1:B:228:ILE:HG22	1:B:233:PHE:CE1	2.45	0.52
1:B:472:VAL:HG12	1:B:472:VAL:O	2.09	0.52
1:B:575:LEU:CD2	1:B:575:LEU:H	2.22	0.52
1:B:59:THR:HB	1:B:61:HIS:CE1	2.45	0.52
1:A:198:ILE:HB	1:A:226:ILE:HG22	1.91	0.52
1:A:472:VAL:O	1:A:472:VAL:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:39:PHE:CD1	1:A:505:PRO:HD2	2.44	0.52
1:A:553:GLU:HG3	1:A:554:MET:N	2.24	0.52
1:B:322:GLY:CA	1:B:327:VAL:HG22	2.40	0.52
1:B:560:LEU:HG	1:B:648:THR:HG21	1.92	0.52
1:B:806:MET:HG2	1:B:807:ARG:CG	2.39	0.52
1:A:956:ALA:O	1:A:1031:LEU:HD11	2.10	0.52
1:A:322:GLY:CA	1:A:327:VAL:HG22	2.40	0.52
1:A:712:PRO:O	1:A:715:VAL:HG22	2.09	0.52
1:A:873:THR:CG2	1:A:981:GLY:C	2.78	0.52
1:B:171:VAL:HG12	1:B:172:ILE:N	2.25	0.52
1:B:509:CYS:HB2	1:B:536:THR:HA	1.91	0.52
1:B:580:THR:HG21	1:B:583:VAL:HG11	1.92	0.52
1:B:64:LEU:HD11	1:B:501:LEU:HD12	1.92	0.52
1:B:827:SER:HB2	1:B:828:PRO:HD3	1.91	0.52
1:A:171:VAL:HG12	1:A:172:ILE:N	2.26	0.51
1:A:473:GLN:CD	1:A:504:VAL:HG13	2.31	0.51
1:A:54:VAL:HG22	1:A:55:VAL:N	2.25	0.51
1:A:64:LEU:HD11	1:A:501:LEU:HD12	1.92	0.51
1:A:716:ILE:CG1	1:A:763:ASN:HB3	2.41	0.51
1:A:870:GLU:CD	1:A:1025:ALA:CA	2.78	0.51
1:A:986:VAL:HG12	1:A:988:PHE:CE1	2.45	0.51
1:B:444:LEU:HD12	1:B:446:PHE:CZ	2.44	0.51
1:A:127:ILE:O	1:A:127:ILE:HG23	2.09	0.51
1:A:154:LYS:HB2	1:A:157:HIS:HD2	1.71	0.51
1:A:228:ILE:HG22	1:A:233:PHE:CE1	2.45	0.51
1:A:185:ALA:CB	1:A:243:TYR:CG	2.94	0.51
1:B:712:PRO:O	1:B:715:VAL:HG22	2.09	0.51
1:B:805:ALA:H	1:B:806:MET:CE	2.22	0.51
1:A:712:PRO:HG3	1:A:801:TYR:CZ	2.45	0.51
1:A:93:LYS:HD3	1:A:105:GLU:OE2	2.10	0.51
1:B:119:ILE:HG23	1:B:119:ILE:O	2.09	0.51
1:B:553:GLU:HG3	1:B:554:MET:N	2.24	0.51
1:B:567:ILE:CD1	1:B:650:PHE:CE2	2.94	0.51
1:A:468:GLN:HG3	1:A:523:ASP:HA	1.92	0.51
1:B:418:VAL:O	1:B:418:VAL:HG13	2.11	0.51
1:B:519:LEU:N	1:B:519:LEU:HD22	2.26	0.51
1:B:468:GLN:HB2	1:B:522:GLY:C	2.30	0.51
1:B:695:LYS:CB	1:B:696:LEU:HD12	2.41	0.51
1:B:727:PRO:O	1:B:729:PRO:HD3	2.10	0.51
1:A:216:VAL:HG13	1:A:217:PHE:N	2.26	0.51
1:A:53:LEU:HG	1:A:64:LEU:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:695:LYS:CB	1:A:696:LEU:HD12	2.41	0.51
1:A:984:VAL:HG11	1:A:998:ARG:HD3	1.91	0.51
1:B:265:PRO:HD3	1:B:274:VAL:HG22	1.92	0.51
1:B:541:CYS:SG	1:B:550:PHE:HD2	2.33	0.51
1:B:712:PRO:HG3	1:B:801:TYR:CZ	2.45	0.51
1:B:716:ILE:CG1	1:B:763:ASN:HB3	2.40	0.51
1:B:933:VAL:HG22	1:B:940:PHE:HB3	1.91	0.51
1:A:805:ALA:H	1:A:806:MET:HE3	1.75	0.51
1:B:184:ILE:C	1:B:184:ILE:HD12	2.31	0.51
1:B:53:LEU:HD23	1:B:53:LEU:C	2.31	0.51
1:B:54:VAL:HG22	1:B:55:VAL:N	2.25	0.51
1:A:278:LYS:HG2	1:A:296:PRO:CA	2.39	0.51
1:A:370:LEU:HD11	1:A:374:TYR:CE1	2.46	0.51
1:A:790:ILE:HD12	1:A:790:ILE:N	2.25	0.51
1:A:889:ILE:CD1	1:A:907:TYR:CE1	2.94	0.51
1:A:997:ARG:H	1:A:1004:ILE:HG23	1.75	0.51
1:B:426:GLU:HG3	1:B:429:ASP:H	1.75	0.51
1:B:548:ARG:O	1:B:584:PRO:HD3	2.11	0.51
1:B:823:GLY:HA3	1:B:844:TRP:CZ2	2.46	0.51
1:B:930:GLU:HG3	1:B:941:MET:SD	2.51	0.51
1:A:133:TYR:O	1:A:134:GLN:HB2	2.11	0.51
1:A:396:LEU:C	1:A:396:LEU:HD13	2.30	0.51
1:A:473:GLN:HB2	1:A:504:VAL:CG2	2.40	0.51
1:B:239:PHE:HA	1:B:260:PRO:CG	2.33	0.51
1:B:284:LYS:HD3	1:B:284:LYS:C	2.31	0.51
1:B:370:LEU:HD11	1:B:374:TYR:CE1	2.46	0.51
1:A:418:VAL:O	1:A:418:VAL:HG13	2.10	0.51
1:A:519:LEU:N	1:A:519:LEU:HD22	2.26	0.51
1:A:567:ILE:CD1	1:A:650:PHE:CE2	2.94	0.51
1:A:59:THR:HB	1:A:61:HIS:CE1	2.45	0.51
1:A:630:HIS:HD2	1:A:632:VAL:HG23	1.73	0.51
1:A:727:PRO:O	1:A:729:PRO:HD3	2.10	0.51
1:A:76:ASP:O	1:A:77:LEU:HB2	2.11	0.51
1:A:847:LEU:HG	1:A:850:ALA:HA	1.91	0.51
1:B:296:PRO:HD2	1:B:414:VAL:HG22	1.92	0.51
1:B:527:GLY:HA3	1:B:550:PHE:CE1	2.45	0.51
1:B:53:LEU:HG	1:B:64:LEU:HD11	1.92	0.51
1:B:703:LEU:N	1:B:703:LEU:HD22	2.26	0.51
1:B:847:LEU:HG	1:B:850:ALA:HA	1.91	0.51
1:A:507:GLU:HG3	1:A:537:ARG:CG	2.41	0.51
1:A:807:ARG:HD3	1:A:812:LEU:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:185:ALA:CB	1:B:243:TYR:CG	2.94	0.51
1:B:93:LYS:HD3	1:B:105:GLU:OE2	2.10	0.51
1:A:870:GLU:OE2	1:A:1025:ALA:CA	2.58	0.50
1:A:358:ILE:CG2	1:A:361:GLN:HB2	2.41	0.50
1:A:541:CYS:SG	1:A:550:PHE:HD2	2.33	0.50
1:A:823:GLY:HA3	1:A:844:TRP:CZ2	2.46	0.50
1:A:987:MET:HB2	1:A:1019:THR:HG22	1.91	0.50
1:B:204:THR:HG23	1:B:206:ASN:O	2.11	0.50
1:B:228:ILE:CG2	1:B:233:PHE:CE1	2.94	0.50
1:B:566:ASN:HB3	1:B:651:VAL:CG2	2.40	0.50
1:B:689:PHE:CE1	1:B:691:GLU:CG	2.94	0.50
1:B:790:ILE:HD12	1:B:790:ILE:N	2.25	0.50
1:B:807:ARG:HD3	1:B:812:LEU:HB3	1.93	0.50
1:B:895:VAL:O	1:B:896:ALA:HB3	2.11	0.50
1:A:204:THR:HG23	1:A:206:ASN:O	2.11	0.50
1:A:469:TYR:HB2	1:A:523:ASP:OD2	2.11	0.50
1:A:783:VAL:HG12	1:A:784:TRP:N	2.25	0.50
1:A:798:VAL:O	1:A:798:VAL:HG13	2.10	0.50
1:A:930:GLU:HG3	1:A:941:MET:SD	2.51	0.50
1:B:119:ILE:CG2	1:B:121:TYR:CE1	2.95	0.50
1:B:300:GLU:HG2	1:B:305:GLU:HA	1.93	0.50
1:B:400:ASP:HB2	1:B:402:ASN:OD1	2.11	0.50
1:A:1004:ILE:HD13	1:A:1004:ILE:C	2.32	0.50
1:A:1029:GLN:HG2	1:A:1030:ASP:N	2.26	0.50
1:A:228:ILE:CG2	1:A:233:PHE:CE1	2.94	0.50
1:A:265:PRO:HD3	1:A:274:VAL:HG22	1.92	0.50
1:A:284:LYS:HD3	1:A:284:LYS:C	2.31	0.50
1:A:703:LEU:HD22	1:A:703:LEU:N	2.26	0.50
1:A:785:ASN:HB3	1:A:788:PHE:CE2	2.46	0.50
1:B:370:LEU:HD13	1:B:374:TYR:CD1	2.46	0.50
1:B:370:LEU:CD1	1:B:374:TYR:CD1	2.95	0.50
1:B:473:GLN:HB2	1:B:504:VAL:CG2	2.40	0.50
1:A:185:ALA:CB	1:A:243:TYR:CD2	2.94	0.50
1:A:261:GLU:HG2	1:A:265:PRO:N	2.25	0.50
1:A:53:LEU:HD23	1:A:53:LEU:C	2.31	0.50
1:A:689:PHE:CE1	1:A:691:GLU:CG	2.94	0.50
1:A:782:VAL:CG2	1:A:790:ILE:HB	2.41	0.50
1:A:894:LYS:CD	1:A:899:GLU:HA	2.41	0.50
1:B:295:VAL:O	1:B:295:VAL:HG23	2.12	0.50
1:B:785:ASN:HB3	1:B:788:PHE:CE2	2.46	0.50
1:B:853:LYS:H	1:B:853:LYS:HD2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:184:ILE:HD12	1:A:184:ILE:C	2.31	0.50
1:A:370:LEU:CD1	1:A:374:TYR:CD1	2.95	0.50
1:A:439:TYR:CE2	1:A:538:LYS:HE2	2.43	0.50
1:B:412:LEU:HD22	1:B:412:LEU:O	2.11	0.50
1:B:541:CYS:CB	1:B:544:SER:HB3	2.42	0.50
1:B:76:ASP:O	1:B:77:LEU:HB2	2.11	0.50
1:A:1029:GLN:CG	1:A:1030:ASP:H	2.24	0.50
1:A:662:LEU:CD2	1:A:791:ASP:OD2	2.60	0.50
1:A:895:VAL:O	1:A:896:ALA:HB3	2.11	0.50
1:A:868:PRO:CD	1:A:980:ALA:C	2.54	0.50
1:B:133:TYR:O	1:B:134:GLN:HB2	2.11	0.50
1:B:185:ALA:CB	1:B:243:TYR:CD2	2.94	0.50
1:B:261:GLU:HG2	1:B:265:PRO:N	2.25	0.50
1:B:403:PHE:CE1	1:B:406:LEU:CD2	2.94	0.50
1:B:473:GLN:CD	1:B:504:VAL:HG13	2.31	0.50
1:B:491:GLU:O	1:B:506:VAL:HG12	2.11	0.50
1:B:64:LEU:HB2	1:B:71:TYR:HD2	1.77	0.50
1:A:110:THR:CB	1:A:132:LEU:HD21	2.42	0.50
1:A:185:ALA:HB1	1:A:243:TYR:CE2	2.47	0.50
1:A:39:PHE:CD2	1:A:473:GLN:CG	2.95	0.50
1:A:491:GLU:O	1:A:506:VAL:HG12	2.11	0.50
1:A:527:GLY:HA3	1:A:550:PHE:CE1	2.45	0.50
1:A:673:TRP:HB3	1:A:694:VAL:HB	1.94	0.50
1:A:81:VAL:HG12	1:A:82:THR:N	2.26	0.50
1:B:358:ILE:CG2	1:B:361:GLN:HB2	2.41	0.50
1:B:457:ILE:HG12	1:B:467:LEU:CD1	2.42	0.50
1:B:798:VAL:HG13	1:B:798:VAL:O	2.10	0.50
1:A:40:VAL:HG21	1:A:76:ASP:O	2.12	0.50
1:A:320:VAL:HG23	1:A:441:ASN:HB3	1.94	0.50
1:A:736:TYR:CD2	1:A:784:TRP:HB3	2.47	0.50
1:B:889:ILE:CD1	1:B:907:TYR:CE1	2.94	0.50
1:A:119:ILE:CG2	1:A:121:TYR:CE1	2.95	0.50
1:A:300:GLU:HG2	1:A:305:GLU:HA	1.93	0.50
1:A:370:LEU:HD13	1:A:374:TYR:CD1	2.46	0.50
1:A:433:SER:HB3	1:A:484:MET:HE3	1.93	0.50
1:A:892:HIS:HD2	1:A:893:VAL:N	2.10	0.50
1:A:986:VAL:CG1	1:A:988:PHE:CE1	2.94	0.50
1:B:593:THR:O	1:B:593:THR:HG23	2.10	0.50
1:B:736:TYR:CD2	1:B:784:TRP:HB3	2.47	0.50
1:B:81:VAL:HG12	1:B:82:THR:N	2.26	0.50
1:B:841:GLU:HG3	1:B:842:SER:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:380:LEU:CD1	1:A:386:LYS:HE3	2.37	0.49
1:A:457:ILE:HG12	1:A:467:LEU:CD1	2.42	0.49
1:A:597:LEU:HD22	1:A:597:LEU:H	1.78	0.49
1:B:278:LYS:CE	1:B:296:PRO:HG3	2.41	0.49
1:B:882:LEU:HD23	1:B:913:ILE:HD11	1.94	0.49
1:A:265:PRO:CD	1:A:274:VAL:HG22	2.42	0.49
1:A:426:GLU:HG3	1:A:429:ASP:H	1.75	0.49
1:A:444:LEU:HD12	1:A:446:PHE:CZ	2.44	0.49
1:A:623:ILE:HD12	1:A:624:THR:CA	2.42	0.49
1:A:976:THR:HG22	1:A:977:ASN:N	2.27	0.49
1:B:623:ILE:HD12	1:B:624:THR:CA	2.42	0.49
1:B:790:ILE:H	1:B:790:ILE:HD12	1.77	0.49
1:B:856:ASN:N	1:B:857:PRO:HD3	2.27	0.49
1:B:892:HIS:HD2	1:B:893:VAL:N	2.10	0.49
1:A:105:GLU:CB	1:A:106:PRO:HD2	2.42	0.49
1:A:234:THR:HG23	1:A:235:VAL:N	2.26	0.49
1:A:400:ASP:HB2	1:A:402:ASN:OD1	2.11	0.49
1:B:234:THR:HG23	1:B:235:VAL:N	2.27	0.49
1:B:333:LEU:HD21	1:B:358:ILE:HG13	1.94	0.49
1:B:597:LEU:H	1:B:597:LEU:CD2	2.26	0.49
1:B:59:THR:HB	1:B:61:HIS:ND1	2.27	0.49
1:B:792:ASN:HD21	1:B:796:ASN:N	2.10	0.49
1:B:894:LYS:CD	1:B:899:GLU:HA	2.41	0.49
1:A:333:LEU:HD21	1:A:358:ILE:HG13	1.94	0.49
1:A:792:ASN:HD21	1:A:796:ASN:N	2.10	0.49
1:B:185:ALA:HB1	1:B:243:TYR:CE2	2.47	0.49
1:B:265:PRO:HB2	1:B:266:PRO:HD2	1.94	0.49
1:B:713:VAL:HG13	1:B:767:SER:HA	1.94	0.49
1:A:412:LEU:O	1:A:412:LEU:HD22	2.11	0.49
1:A:790:ILE:H	1:A:790:ILE:HD12	1.77	0.49
1:A:955:LEU:HD11	1:A:973:ILE:HG23	1.94	0.49
1:B:312:ALA:HB1	1:B:334:LEU:HD11	1.94	0.49
1:B:475:VAL:HG22	1:B:500:GLN:OE1	2.13	0.49
1:B:40:VAL:HG21	1:B:76:ASP:O	2.12	0.49
1:A:132:LEU:HD11	1:A:163:ASN:HD22	1.77	0.49
1:A:185:ALA:HA	1:A:197:THR:O	2.13	0.49
1:A:475:VAL:HG22	1:A:500:GLN:OE1	2.13	0.49
1:A:597:LEU:CD2	1:A:597:LEU:H	2.26	0.49
1:A:532:HIS:CA	1:A:641:THR:HG21	2.43	0.49
1:A:782:VAL:HG23	1:A:782:VAL:O	2.12	0.49
1:B:110:THR:CB	1:B:132:LEU:HD21	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:133:TYR:HB3	1:B:136:ILE:HG23	1.94	0.49
1:B:265:PRO:CD	1:B:274:VAL:HG22	2.42	0.49
1:B:374:TYR:CE2	1:B:397:LEU:HD22	2.48	0.49
1:B:782:VAL:HG23	1:B:782:VAL:O	2.12	0.49
1:A:1002:TYR:OH	1:A:1004:ILE:HB	2.12	0.49
1:A:1021:GLN:HG2	1:A:1026:ARG:CG	2.41	0.49
1:A:254:TYR:CE2	1:A:281:ARG:HD2	2.48	0.49
1:A:295:VAL:O	1:A:295:VAL:HG23	2.12	0.49
1:A:374:TYR:CE2	1:A:397:LEU:HD22	2.48	0.49
1:A:995:PHE:HZ	1:A:998:ARG:HB2	1.77	0.49
1:B:444:LEU:CD2	1:B:524:PRO:CD	2.91	0.49
1:B:548:ARG:CD	1:B:583:VAL:O	2.60	0.49
1:A:541:CYS:CB	1:A:544:SER:HB3	2.42	0.49
1:A:841:GLU:HG3	1:A:842:SER:H	1.78	0.49
1:A:889:ILE:O	1:A:892:HIS:HB3	2.13	0.49
1:B:132:LEU:HD11	1:B:163:ASN:HD22	1.77	0.49
1:B:190:GLY:C	1:B:192:PRO:HD3	2.33	0.49
1:B:216:VAL:HG13	1:B:217:PHE:N	2.26	0.49
1:B:433:SER:HB3	1:B:484:MET:HE3	1.95	0.49
1:B:889:ILE:O	1:B:892:HIS:HB3	2.13	0.49
1:A:991:GLN:CB	1:A:1008:THR:HG21	2.42	0.49
1:A:265:PRO:HB2	1:A:266:PRO:HD2	1.94	0.49
1:B:473:GLN:HB3	1:B:502:THR:HG21	1.94	0.49
1:B:590:VAL:HG12	1:B:591:ASN:N	2.27	0.49
1:B:847:LEU:HG	1:B:850:ALA:CA	2.42	0.49
1:A:133:TYR:HB3	1:A:136:ILE:HG23	1.94	0.49
1:A:853:LYS:HD2	1:A:853:LYS:H	1.76	0.49
1:A:868:PRO:HG2	1:A:981:GLY:HA3	1.91	0.49
1:B:182:LEU:HD21	1:B:184:ILE:HG21	1.94	0.49
1:B:190:GLY:HA2	1:B:233:PHE:HE2	1.73	0.49
1:B:662:LEU:HD23	1:B:791:ASP:CG	2.32	0.49
1:B:809:SER:CB	1:B:881:ASN:ND2	2.75	0.49
1:A:603:LEU:C	1:A:603:LEU:HD23	2.33	0.48
1:A:856:ASN:N	1:A:857:PRO:HD3	2.27	0.48
1:A:863:ILE:HG13	1:A:864:PRO:N	2.28	0.48
1:A:99:ILE:HD11	1:A:152:PHE:CB	2.41	0.48
1:B:39:PHE:CD2	1:B:473:GLN:CG	2.95	0.48
1:B:506:VAL:O	1:B:525:HIS:CE1	2.66	0.48
1:B:541:CYS:SG	1:B:550:PHE:CD2	3.06	0.48
1:B:863:ILE:HG13	1:B:864:PRO:N	2.28	0.48
1:B:907:TYR:CZ	1:B:909:PRO:HA	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:868:PRO:CG	1:A:1022:VAL:CG2	2.88	0.48
1:A:473:GLN:CD	1:A:504:VAL:HG22	2.33	0.48
1:A:59:THR:HB	1:A:61:HIS:ND1	2.27	0.48
1:A:790:ILE:HG22	1:A:791:ASP:N	2.29	0.48
1:A:847:LEU:HG	1:A:850:ALA:CA	2.42	0.48
1:B:160:SER:OG	1:B:162:VAL:HG23	2.13	0.48
1:B:949:TYR:CE2	1:B:951:MET:CE	2.95	0.48
1:A:1020:VAL:HG13	1:A:1020:VAL:O	2.13	0.48
1:A:590:VAL:HG12	1:A:591:ASN:N	2.27	0.48
1:A:713:VAL:HG13	1:A:767:SER:HA	1.94	0.48
1:A:882:LEU:HD23	1:A:913:ILE:HD11	1.94	0.48
1:B:185:ALA:HA	1:B:197:THR:O	2.13	0.48
1:B:435:ILE:HG21	1:B:486:PHE:CE1	2.48	0.48
1:B:603:LEU:HD23	1:B:603:LEU:C	2.33	0.48
1:B:673:TRP:HB3	1:B:694:VAL:HB	1.94	0.48
1:A:239:PHE:CD1	1:A:260:PRO:HG2	2.48	0.48
1:A:321:LEU:CG	1:A:325:LEU:HD11	2.40	0.48
1:A:991:GLN:HB3	1:A:1008:THR:HG21	1.96	0.48
1:B:239:PHE:CD1	1:B:260:PRO:HG2	2.48	0.48
1:B:254:TYR:CE2	1:B:281:ARG:HD2	2.48	0.48
1:B:320:VAL:HG23	1:B:441:ASN:HB3	1.94	0.48
1:B:781:THR:HG23	1:B:781:THR:O	2.12	0.48
1:B:807:ARG:HB3	1:B:812:LEU:HB2	1.95	0.48
1:A:435:ILE:HG21	1:A:486:PHE:CE1	2.48	0.48
1:A:473:GLN:HB3	1:A:502:THR:HG21	1.94	0.48
1:A:681:THR:HG21	1:A:686:THR:HG21	1.94	0.48
1:A:740:LEU:HD12	1:A:740:LEU:N	2.29	0.48
1:A:716:ILE:HD11	1:A:763:ASN:HB3	1.95	0.48
1:A:781:THR:O	1:A:781:THR:HG23	2.12	0.48
1:B:258:LEU:HD12	1:B:258:LEU:N	2.29	0.48
1:B:453:LYS:HE3	1:B:472:VAL:HG22	1.94	0.48
1:B:715:VAL:HG23	1:B:715:VAL:O	2.13	0.48
1:A:182:LEU:HD21	1:A:184:ILE:HG21	1.94	0.48
1:A:567:ILE:HD12	1:A:650:PHE:CE2	2.49	0.48
1:B:716:ILE:HD11	1:B:763:ASN:HB3	1.95	0.48
1:B:935:VAL:HG12	1:B:936:CYS:N	2.28	0.48
1:A:190:GLY:C	1:A:192:PRO:HD3	2.33	0.48
1:A:312:ALA:HB1	1:A:334:LEU:HD11	1.94	0.48
1:A:144:ASP:O	1:A:145:LEU:HB2	2.13	0.48
1:A:543:ARG:HH11	1:A:549:ARG:HH22	1.62	0.48
1:A:626:ASN:ND2	1:A:630:HIS:HB2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:LEU:HB2	1:A:71:TYR:HD2	1.77	0.48
1:A:807:ARG:HB3	1:A:812:LEU:HB2	1.95	0.48
1:A:935:VAL:HG12	1:A:936:CYS:N	2.28	0.48
1:B:144:ASP:O	1:B:145:LEU:HB2	2.13	0.48
1:B:42:PHE:HZ	1:B:45:GLU:CB	2.22	0.48
1:B:626:ASN:ND2	1:B:630:HIS:HB2	2.29	0.48
1:B:783:VAL:HG13	1:B:788:PHE:O	2.13	0.48
1:B:782:VAL:CG2	1:B:790:ILE:HB	2.41	0.48
1:B:471:THR:HG23	1:B:473:GLN:NE2	2.27	0.48
1:A:710:LEU:HD13	1:A:801:TYR:OH	2.13	0.48
1:A:1010:SER:HB2	1:A:1035:TYR:CD2	2.49	0.47
1:A:361:GLN:HE21	1:A:365:ARG:HH21	1.61	0.47
1:A:469:TYR:CB	1:A:523:ASP:OD2	2.62	0.47
1:A:704:LEU:H	1:A:723:ALA:HA	1.79	0.47
1:A:987:MET:HE3	1:A:990:SER:HA	1.95	0.47
1:B:440:LYS:O	1:B:440:LYS:HG2	2.14	0.47
1:B:561:THR:HG22	1:B:562:VAL:N	2.29	0.47
1:B:681:THR:HG21	1:B:686:THR:HG21	1.95	0.47
1:B:710:LEU:HD13	1:B:801:TYR:OH	2.13	0.47
1:A:124:ASN:OD1	1:A:142:LEU:HB3	2.14	0.47
1:A:258:LEU:HD12	1:A:258:LEU:N	2.28	0.47
1:A:440:LYS:HG2	1:A:440:LYS:O	2.14	0.47
1:A:541:CYS:SG	1:A:550:PHE:CD2	3.07	0.47
1:A:862:ILE:CG2	1:A:877:ILE:HG23	2.44	0.47
1:A:907:TYR:CZ	1:A:909:PRO:HA	2.48	0.47
1:A:991:GLN:HA	1:A:991:GLN:OE1	2.13	0.47
1:B:124:ASN:OD1	1:B:142:LEU:HB3	2.15	0.47
1:B:430:ARG:HG2	1:B:431:MET:O	2.14	0.47
1:B:814:LEU:HD11	1:B:845:LEU:CD1	2.44	0.47
1:A:468:GLN:HB3	1:A:468:GLN:HE21	1.47	0.47
1:A:695:LYS:HB2	1:A:696:LEU:HD12	1.97	0.47
1:A:728:GLN:HA	1:A:753:ARG:NH2	2.30	0.47
1:A:953:LEU:HB3	1:A:977:ASN:O	2.14	0.47
1:B:113:VAL:HG11	1:B:165:SER:HB3	1.97	0.47
1:B:361:GLN:HE21	1:B:365:ARG:HH21	1.61	0.47
1:B:473:GLN:CD	1:B:504:VAL:HG22	2.34	0.47
1:B:507:GLU:HG3	1:B:537:ARG:CG	2.40	0.47
1:B:698:GLU:O	1:B:725:ASN:OD1	2.32	0.47
1:B:728:GLN:HA	1:B:753:ARG:NH2	2.29	0.47
1:A:991:GLN:HG2	1:A:1008:THR:HG21	1.96	0.47
1:A:783:VAL:HG13	1:A:788:PHE:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:984:VAL:HG23	1:A:984:VAL:O	2.14	0.47
1:A:997:ARG:HG2	1:A:998:ARG:N	2.30	0.47
1:B:98:ARG:NH2	1:B:107:LEU:HD12	2.29	0.47
1:B:175:TYR:CG	1:B:176:SER:N	2.82	0.47
1:B:543:ARG:HH11	1:B:549:ARG:HH22	1.62	0.47
1:A:264:SER:HA	1:A:265:PRO:HA	1.53	0.47
1:A:40:VAL:HG11	1:A:503:ARG:HE	1.79	0.47
1:A:458:ARG:CD	1:A:524:PRO:HG3	2.44	0.47
1:A:702:GLN:O	1:A:723:ALA:HB1	2.14	0.47
1:A:715:VAL:HG23	1:A:715:VAL:O	2.13	0.47
1:A:863:ILE:CG1	1:A:864:PRO:HD3	2.39	0.47
1:A:175:TYR:CG	1:A:176:SER:N	2.82	0.47
1:A:430:ARG:HG2	1:A:431:MET:O	2.14	0.47
1:A:77:LEU:HD22	1:A:501:LEU:HD13	1.96	0.47
1:A:68:ASN:ND2	1:A:87:PRO:HD3	2.29	0.47
1:B:118:LEU:HD13	1:B:118:LEU:C	2.34	0.47
1:B:380:LEU:HD12	1:B:390:ILE:CG2	2.45	0.47
1:B:480:VAL:HB	1:B:484:MET:HE1	1.94	0.47
1:B:469:TYR:HB3	1:B:523:ASP:OD2	2.15	0.47
1:B:597:LEU:H	1:B:597:LEU:HD22	1.78	0.47
1:B:699:ASP:O	1:B:725:ASN:CB	2.63	0.47
1:B:745:ILE:O	1:B:745:ILE:HG23	2.14	0.47
1:A:333:LEU:CD2	1:A:358:ILE:HA	2.45	0.47
1:A:569:VAL:HG23	1:A:654:ASN:HB2	1.80	0.47
1:A:72:LYS:O	1:A:80:LEU:HB2	2.15	0.47
1:A:745:ILE:O	1:A:745:ILE:HG23	2.15	0.47
1:A:814:LEU:HD11	1:A:845:LEU:CD1	2.44	0.47
1:A:987:MET:CE	1:A:990:SER:HA	2.45	0.47
1:B:372:SER:HA	1:B:375:ARG:NE	2.29	0.47
1:B:702:GLN:O	1:B:723:ALA:HB1	2.14	0.47
1:B:704:LEU:H	1:B:723:ALA:HA	1.79	0.47
1:B:884:LEU:HD23	1:B:884:LEU:HA	1.75	0.47
1:B:262:MET:O	1:B:263:VAL:HB	2.14	0.47
1:B:569:VAL:CG1	1:B:620:PRO:HG3	2.45	0.47
1:B:947:LEU:HD23	1:B:947:LEU:H	1.80	0.47
1:A:958:LEU:HD13	1:A:1033:PHE:HD1	1.79	0.47
1:A:253:VAL:O	1:A:253:VAL:HG23	2.15	0.47
1:A:453:LYS:HE3	1:A:472:VAL:HG22	1.94	0.47
1:A:843:ARG:NH1	1:A:843:ARG:HB2	2.30	0.47
1:A:892:HIS:CD2	1:A:893:VAL:CG2	2.98	0.47
1:B:253:VAL:O	1:B:253:VAL:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:403:PHE:HE1	1:B:406:LEU:HD23	1.75	0.47
1:B:45:GLU:HB3	1:B:46:PRO:HD3	1.97	0.47
1:B:740:LEU:HD12	1:B:740:LEU:N	2.29	0.47
1:B:790:ILE:HG22	1:B:791:ASP:N	2.28	0.47
1:A:245:TYR:CE2	1:A:247:PHE:HD2	2.33	0.47
1:A:569:VAL:CG1	1:A:620:PRO:HG3	2.45	0.47
1:A:873:THR:CG2	1:A:982:SER:N	2.78	0.47
1:B:68:ASN:ND2	1:B:87:PRO:HD3	2.30	0.47
1:A:1020:VAL:HG13	1:A:1027:ILE:HG12	1.96	0.47
1:A:160:SER:OG	1:A:162:VAL:HG23	2.14	0.47
1:A:495:ILE:HG22	1:A:502:THR:HB	1.96	0.47
1:A:561:THR:HG22	1:A:562:VAL:N	2.28	0.47
1:A:947:LEU:N	1:A:947:LEU:HD23	2.30	0.47
1:B:105:GLU:CB	1:B:106:PRO:HD2	2.42	0.47
1:B:333:LEU:CD2	1:B:358:ILE:HA	2.45	0.47
1:B:343:LYS:HG2	1:B:344:ARG:HG2	1.97	0.47
1:B:82:THR:O	1:B:82:THR:HG23	2.14	0.47
1:A:118:LEU:C	1:A:118:LEU:HD13	2.34	0.46
1:A:372:SER:HA	1:A:375:ARG:NE	2.30	0.46
1:B:244:VAL:HB	1:B:309:LEU:HD23	1.97	0.46
1:B:783:VAL:HG11	1:B:786:GLY:O	2.15	0.46
1:B:843:ARG:HB2	1:B:843:ARG:NH1	2.30	0.46
1:B:862:ILE:CG2	1:B:877:ILE:HG23	2.44	0.46
1:B:863:ILE:CG1	1:B:864:PRO:HD3	2.39	0.46
1:A:181:LYS:HZ2	1:A:216:VAL:HG23	1.77	0.46
1:A:403:PHE:HE1	1:A:406:LEU:HD23	1.75	0.46
1:A:68:ASN:HB3	1:A:86:GLY:HA3	1.97	0.46
1:A:949:TYR:CE2	1:A:951:MET:CE	2.95	0.46
1:A:873:THR:HG23	1:A:981:GLY:O	2.14	0.46
1:B:567:ILE:HD12	1:B:650:PHE:CE2	2.49	0.46
1:B:72:LYS:O	1:B:80:LEU:HB2	2.15	0.46
1:A:244:VAL:HB	1:A:309:LEU:HD23	1.97	0.46
1:B:286:ASP:OD1	1:B:288:ALA:HB3	2.15	0.46
1:B:380:LEU:CB	1:B:386:LYS:HE3	2.44	0.46
1:B:505:PRO:HB2	1:B:507:GLU:C	2.35	0.46
1:A:1007:THR:HG22	1:A:1008:THR:O	2.15	0.46
1:A:532:HIS:CA	1:A:641:THR:OG1	2.57	0.46
1:A:82:THR:O	1:A:82:THR:HG23	2.14	0.46
1:B:321:LEU:CG	1:B:325:LEU:HD11	2.40	0.46
1:A:252:PHE:CD1	1:A:283:CYS:HA	2.50	0.46
1:A:503:ARG:O	1:A:505:PRO:HD3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:ARG:HA	1:A:584:PRO:HG3	1.97	0.46
1:A:549:ARG:CD	1:A:584:PRO:CB	2.76	0.46
1:A:862:ILE:HG22	1:A:877:ILE:CA	2.32	0.46
1:A:873:THR:HG22	1:A:874:LYS:N	2.31	0.46
1:B:159:LEU:HG	1:B:201:ARG:HH12	1.81	0.46
1:B:245:TYR:CD2	1:B:312:ALA:HB3	2.51	0.46
1:B:296:PRO:CD	1:B:414:VAL:HG22	2.45	0.46
1:B:468:GLN:O	1:B:521:SER:O	2.34	0.46
1:B:660:SER:HB2	1:B:791:ASP:OD1	2.16	0.46
1:B:68:ASN:HB3	1:B:86:GLY:HA3	1.97	0.46
1:B:892:HIS:CD2	1:B:893:VAL:CG2	2.98	0.46
1:A:1015:ASP:H	1:A:1035:TYR:H	1.63	0.46
1:A:265:PRO:CB	1:A:266:PRO:HD2	2.45	0.46
1:A:296:PRO:CD	1:A:414:VAL:HG22	2.46	0.46
1:A:492:GLN:HG2	1:A:503:ARG:HG2	1.98	0.46
1:B:77:LEU:HD22	1:B:501:LEU:HD13	1.96	0.46
1:B:46:PRO:CG	1:B:69:ARG:HG3	2.27	0.46
1:B:902:PRO:HA	1:B:915:CYS:HA	1.97	0.46
1:B:99:ILE:HD11	1:B:152:PHE:CB	2.41	0.46
1:A:113:VAL:HG11	1:A:165:SER:HB3	1.96	0.46
1:A:226:ILE:HD11	1:A:385:LEU:CD2	2.46	0.46
1:A:444:LEU:HD13	1:A:445:ALA:H	1.79	0.46
1:A:62:ILE:CD1	1:A:77:LEU:CD2	2.94	0.46
1:A:62:ILE:HD11	1:A:73:LEU:CD1	2.45	0.46
1:A:873:THR:OG1	1:A:982:SER:N	2.48	0.46
1:B:295:VAL:CA	1:B:414:VAL:HG21	2.45	0.46
1:A:262:MET:O	1:A:263:VAL:HB	2.14	0.46
1:A:274:VAL:HG23	1:A:275:TYR:N	2.30	0.46
1:A:295:VAL:CA	1:A:414:VAL:HG21	2.45	0.46
1:A:343:LYS:HG2	1:A:344:ARG:HG2	1.97	0.46
1:A:947:LEU:H	1:A:947:LEU:HD23	1.80	0.46
1:B:495:ILE:HG22	1:B:502:THR:HB	1.96	0.46
1:B:594:PHE:CZ	1:B:614:PRO:HD3	2.51	0.46
1:A:403:PHE:CE1	1:A:406:LEU:CD2	2.94	0.46
1:A:437:TYR:CE2	1:A:439:TYR:HB2	2.51	0.46
1:B:245:TYR:CE2	1:B:247:PHE:HD2	2.34	0.46
1:B:278:LYS:HD3	1:B:294:GLU:HG2	1.98	0.46
1:B:46:PRO:HD2	1:B:71:TYR:OH	2.16	0.46
1:B:91:ASN:OD1	1:B:92:PRO:HD2	2.16	0.46
1:A:870:GLU:CA	1:A:1024:ARG:HG2	2.43	0.46
1:A:286:ASP:OD1	1:A:288:ALA:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:380:LEU:HD12	1:A:390:ILE:CG2	2.45	0.46
1:A:902:PRO:HA	1:A:915:CYS:HA	1.98	0.46
1:B:118:LEU:CD1	1:B:172:ILE:HD12	2.12	0.46
1:B:225:MET:HE1	1:B:227:LYS:CG	2.45	0.46
1:B:361:GLN:O	1:B:365:ARG:HG2	2.16	0.46
1:A:327:VAL:HG11	1:A:358:ILE:HD11	1.97	0.45
1:A:624:THR:O	1:A:624:THR:HG23	2.15	0.45
1:A:828:PRO:HG3	1:A:837:CYS:SG	2.56	0.45
1:A:892:HIS:CD2	1:A:893:VAL:HG22	2.51	0.45
1:B:252:PHE:CD1	1:B:283:CYS:HA	2.50	0.45
1:B:435:ILE:HG23	1:B:486:PHE:HE1	1.81	0.45
1:B:439:TYR:CE2	1:B:538:LYS:CE	2.99	0.45
1:B:689:PHE:CE1	1:B:691:GLU:HG2	2.50	0.45
1:B:62:ILE:CD1	1:B:73:LEU:HB2	2.47	0.45
1:B:743:GLN:HG2	1:B:744:GLY:N	2.31	0.45
1:A:110:THR:CB	1:A:132:LEU:CD2	2.95	0.45
1:A:435:ILE:HG23	1:A:486:PHE:HE1	1.81	0.45
1:A:480:VAL:HB	1:A:484:MET:HE1	1.97	0.45
1:A:563:HIS:CB	1:A:577:VAL:HG12	2.46	0.45
1:A:532:HIS:C	1:A:641:THR:HG21	2.36	0.45
1:A:870:GLU:OE2	1:A:1025:ALA:HA	2.16	0.45
1:A:890:ALA:O	1:A:891:SER:HB2	2.17	0.45
1:B:265:PRO:CB	1:B:266:PRO:HD2	2.45	0.45
1:A:1020:VAL:CG1	1:A:1027:ILE:CG1	2.95	0.45
1:A:380:LEU:CB	1:A:386:LYS:HE3	2.43	0.45
1:A:45:GLU:HB3	1:A:46:PRO:HD3	1.97	0.45
1:B:118:LEU:HB3	1:B:127:ILE:HG22	1.98	0.45
1:B:663:SER:O	1:B:667:SER:HB2	2.17	0.45
1:B:695:LYS:HB2	1:B:696:LEU:HD12	1.96	0.45
1:A:361:GLN:O	1:A:365:ARG:HG2	2.16	0.45
1:A:458:ARG:HG3	1:A:468:GLN:NE2	2.32	0.45
1:A:469:TYR:CG	1:A:470:GLU:N	2.84	0.45
1:A:689:PHE:CE1	1:A:691:GLU:HG2	2.50	0.45
1:A:783:VAL:HG11	1:A:786:GLY:O	2.16	0.45
1:B:256:LEU:HD22	1:B:256:LEU:N	2.31	0.45
1:B:435:ILE:HG21	1:B:486:PHE:HE1	1.81	0.45
1:B:58:ARG:HG2	1:B:58:ARG:NH1	2.31	0.45
1:B:62:ILE:HD11	1:B:73:LEU:CD1	2.45	0.45
1:B:828:PRO:HG3	1:B:837:CYS:SG	2.56	0.45
1:B:892:HIS:CD2	1:B:893:VAL:N	2.85	0.45
1:A:159:LEU:HG	1:A:201:ARG:HH12	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:256:LEU:HD22	1:A:256:LEU:N	2.31	0.45
1:A:288:ALA:O	1:A:289:PHE:HB2	2.17	0.45
1:A:322:GLY:HA2	1:A:327:VAL:HG22	1.99	0.45
1:A:511:GLN:HG3	1:A:512:TYR:CD2	2.51	0.45
1:A:743:GLN:HG2	1:A:744:GLY:N	2.31	0.45
1:B:563:HIS:CB	1:B:577:VAL:HG12	2.46	0.45
1:B:624:THR:O	1:B:624:THR:HG23	2.15	0.45
1:B:62:ILE:CD1	1:B:77:LEU:CD2	2.94	0.45
1:B:805:ALA:N	1:B:806:MET:HE3	2.31	0.45
1:A:1014:LEU:HD12	1:A:1035:TYR:O	2.16	0.45
1:A:118:LEU:HB3	1:A:127:ILE:HG22	1.98	0.45
1:A:278:LYS:CE	1:A:296:PRO:HG3	2.41	0.45
1:A:245:TYR:CD2	1:A:312:ALA:HB3	2.51	0.45
1:A:506:VAL:O	1:A:507:GLU:N	2.39	0.45
1:A:695:LYS:C	1:A:696:LEU:HD12	2.37	0.45
1:B:442:HIS:CD2	1:B:458:ARG:HH21	2.35	0.45
1:B:503:ARG:O	1:B:505:PRO:HD3	2.15	0.45
1:B:671:CYS:HB3	1:B:680:CYS:SG	2.57	0.45
1:B:873:THR:HG22	1:B:874:LYS:N	2.31	0.45
1:B:892:HIS:CD2	1:B:893:VAL:HG22	2.51	0.45
1:B:947:LEU:HD23	1:B:947:LEU:N	2.30	0.45
1:A:358:ILE:CG2	1:A:361:GLN:CB	2.95	0.45
1:A:539:GLU:HG3	1:A:540:ARG:N	2.31	0.45
1:A:53:LEU:HD12	1:A:501:LEU:HG	1.99	0.45
1:A:594:PHE:CZ	1:A:614:PRO:HD3	2.51	0.45
1:A:46:PRO:HD2	1:A:71:TYR:OH	2.16	0.45
1:B:118:LEU:O	1:B:127:ILE:HG22	2.17	0.45
1:B:226:ILE:HD11	1:B:385:LEU:CD2	2.46	0.45
1:B:40:VAL:HG11	1:B:503:ARG:HE	1.80	0.45
1:B:62:ILE:CD1	1:B:501:LEU:CD1	2.95	0.45
1:B:635:GLN:HB3	1:B:644:THR:HB	1.99	0.45
1:B:890:ALA:O	1:B:891:SER:HB2	2.17	0.45
1:A:182:LEU:HB2	1:A:203:LEU:HD11	1.99	0.45
1:A:62:ILE:CD1	1:A:501:LEU:CD1	2.95	0.45
1:A:663:SER:O	1:A:667:SER:HB2	2.16	0.45
1:A:715:VAL:HG21	1:A:717:LYS:CD	2.44	0.45
1:A:841:GLU:HG3	1:A:842:SER:N	2.32	0.45
1:A:955:LEU:CD1	1:A:973:ILE:CG2	2.94	0.45
1:B:133:TYR:CG	1:B:136:ILE:CG1	2.94	0.45
1:B:464:GLY:O	1:B:465:ASN:HB3	2.17	0.45
1:A:492:GLN:HG2	1:A:503:ARG:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:873:THR:CB	1:A:982:SER:N	2.80	0.45
1:B:192:PRO:HB3	1:B:233:PHE:CZ	2.51	0.45
1:B:288:ALA:O	1:B:289:PHE:HB2	2.17	0.45
1:B:492:GLN:HG2	1:B:503:ARG:HG2	1.98	0.45
1:B:511:GLN:HG3	1:B:512:TYR:CD2	2.51	0.45
1:B:539:GLU:HG3	1:B:540:ARG:N	2.31	0.45
1:B:814:LEU:HB2	1:B:884:LEU:HD11	1.98	0.45
1:A:118:LEU:CD1	1:A:172:ILE:HD12	2.12	0.45
1:A:531:LEU:HG	1:A:584:PRO:CG	2.46	0.45
1:A:91:ASN:OD1	1:A:92:PRO:HD2	2.16	0.45
1:B:327:VAL:HG11	1:B:358:ILE:HD11	1.97	0.45
1:B:468:GLN:HB3	1:B:468:GLN:HE21	1.47	0.45
1:B:862:ILE:HG22	1:B:877:ILE:CA	2.32	0.45
1:A:464:GLY:O	1:A:465:ASN:HB3	2.17	0.44
1:A:703:LEU:CD2	1:A:790:ILE:CG2	2.95	0.44
1:A:778:VAL:O	1:A:797:LYS:HB2	2.17	0.44
1:B:295:VAL:CB	1:B:414:VAL:HG21	2.48	0.44
1:B:469:TYR:CG	1:B:470:GLU:N	2.84	0.44
1:B:586:LEU:HD13	1:B:590:VAL:HG21	1.99	0.44
1:B:703:LEU:CD2	1:B:790:ILE:CG2	2.95	0.44
1:B:832:THR:HG21	1:B:836:HIS:CB	2.48	0.44
1:A:151:PRO:HB2	1:A:157:HIS:CE1	2.52	0.44
1:A:247:PHE:CD1	1:A:314:LEU:HD22	2.52	0.44
1:A:252:PHE:HD1	1:A:283:CYS:HA	1.82	0.44
1:A:278:LYS:HD3	1:A:294:GLU:HG2	1.98	0.44
1:A:471:THR:HG23	1:A:473:GLN:NE2	2.27	0.44
1:A:564:PRO:HB2	1:A:576:LEU:CD2	2.48	0.44
1:A:567:ILE:HD11	1:A:652:PHE:CD1	2.53	0.44
1:A:892:HIS:CD2	1:A:893:VAL:N	2.85	0.44
1:B:162:VAL:HG21	1:B:187:ALA:HB3	1.99	0.44
1:B:252:PHE:HD1	1:B:283:CYS:HA	1.82	0.44
1:B:305:GLU:HG2	1:B:307:ARG:HG2	1.99	0.44
1:B:291:SER:HB3	1:B:404:CYS:O	2.18	0.44
1:B:458:ARG:HG3	1:B:468:GLN:NE2	2.32	0.44
1:B:492:GLN:HG2	1:B:503:ARG:HD2	1.98	0.44
1:B:53:LEU:HD12	1:B:501:LEU:HG	1.99	0.44
1:B:566:ASN:CB	1:B:651:VAL:CG2	2.95	0.44
1:A:189:ASP:HB3	1:A:191:LYS:HD3	1.99	0.44
1:B:597:LEU:HG	1:B:622:ILE:HG12	1.99	0.44
1:A:291:SER:HB3	1:A:404:CYS:O	2.18	0.44
1:A:566:ASN:CB	1:A:651:VAL:CG2	2.94	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:868:PRO:HG2	1:A:1022:VAL:HG21	1.94	0.44
1:A:995:PHE:CZ	1:A:998:ARG:HB2	2.52	0.44
1:B:182:LEU:HB2	1:B:203:LEU:HD11	1.99	0.44
1:B:264:SER:HA	1:B:265:PRO:HA	1.53	0.44
1:B:247:PHE:CD1	1:B:314:LEU:HD22	2.52	0.44
1:B:370:LEU:CD2	1:B:374:TYR:HE1	2.27	0.44
1:B:437:TYR:CE2	1:B:439:TYR:HB2	2.51	0.44
1:B:567:ILE:HD11	1:B:652:PHE:CD1	2.53	0.44
1:B:695:LYS:C	1:B:696:LEU:HD12	2.37	0.44
1:B:805:ALA:H	1:B:806:MET:HE3	1.82	0.44
1:A:116:MET:SD	1:A:169:PHE:HA	2.57	0.44
1:A:262:MET:SD	1:A:383:ALA:HB3	2.57	0.44
1:A:541:CYS:HB3	1:A:544:SER:HB3	1.99	0.44
1:A:58:ARG:HG2	1:A:58:ARG:NH1	2.31	0.44
1:A:53:LEU:CG	1:A:64:LEU:CD1	2.96	0.44
1:A:889:ILE:CD1	1:A:907:TYR:CZ	3.01	0.44
1:A:958:LEU:HD13	1:A:1033:PHE:CD1	2.53	0.44
1:B:116:MET:SD	1:B:169:PHE:HA	2.57	0.44
1:A:281:ARG:NH1	1:A:366:ILE:HG21	2.33	0.44
1:A:306:TYR:HE1	1:A:351:GLU:HG2	1.83	0.44
1:A:635:GLN:HB3	1:A:644:THR:HB	1.99	0.44
1:A:671:CYS:HB3	1:A:680:CYS:SG	2.57	0.44
1:A:951:MET:HG2	1:A:977:ASN:OD1	2.17	0.44
1:B:179:ASP:O	1:B:180:ASP:HB3	2.17	0.44
1:B:185:ALA:CB	1:B:243:TYR:CD1	3.00	0.44
1:B:262:MET:SD	1:B:383:ALA:HB3	2.58	0.44
1:A:98:ARG:NH2	1:A:107:LEU:HD12	2.29	0.44
1:A:179:ASP:O	1:A:180:ASP:HB3	2.17	0.44
1:A:40:VAL:HG13	1:A:40:VAL:O	2.17	0.44
1:A:421:ILE:HA	1:A:422:PRO:HD2	1.84	0.44
1:A:586:LEU:HD13	1:A:590:VAL:HG21	1.99	0.44
1:A:597:LEU:HG	1:A:622:ILE:HG12	1.99	0.44
1:A:72:LYS:CE	1:A:80:LEU:CD1	2.95	0.44
1:B:117:LEU:HD11	1:B:126:LEU:CD2	2.31	0.44
1:B:119:ILE:HG23	1:B:121:TYR:CE1	2.53	0.44
1:B:173:VAL:O	1:B:173:VAL:HG23	2.18	0.44
1:B:256:LEU:CB	1:B:309:LEU:CD2	2.94	0.44
1:B:281:ARG:NH1	1:B:366:ILE:HG21	2.33	0.44
1:B:676:TYR:CE1	1:B:730:GLN:CD	2.90	0.44
1:B:699:ASP:O	1:B:725:ASN:HB3	2.18	0.44
1:B:62:ILE:CD1	1:B:73:LEU:HD12	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:LEU:O	1:A:127:ILE:HG22	2.17	0.44
1:A:133:TYR:CG	1:A:136:ILE:CG1	2.94	0.44
1:A:162:VAL:HG21	1:A:187:ALA:HB3	1.99	0.44
1:A:217:PHE:CE2	1:A:219:ASP:HB2	2.53	0.44
1:A:889:ILE:HA	1:A:892:HIS:ND1	2.33	0.44
1:B:110:THR:CB	1:B:132:LEU:CD2	2.95	0.44
1:B:274:VAL:HG23	1:B:275:TYR:N	2.30	0.44
1:B:322:GLY:HA2	1:B:327:VAL:HG22	1.99	0.44
1:B:332:ASP:O	1:B:333:LEU:HD23	2.18	0.44
1:B:42:PHE:CZ	1:B:45:GLU:CB	2.95	0.44
1:B:55:VAL:HG22	1:B:62:ILE:HG22	2.00	0.44
1:B:564:PRO:HB2	1:B:576:LEU:CD2	2.48	0.44
1:A:442:HIS:CD2	1:A:458:ARG:HH21	2.35	0.44
1:A:528:TRP:HZ2	1:A:533:ASN:OD1	2.01	0.44
1:A:569:VAL:CG2	1:A:654:ASN:CB	2.65	0.44
1:A:574:VAL:HG22	1:A:613:SER:OG	2.17	0.44
1:A:713:VAL:O	1:A:714:GLU:HB2	2.18	0.44
1:B:358:ILE:CG2	1:B:361:GLN:CB	2.95	0.44
1:B:743:GLN:H	1:B:743:GLN:CD	2.21	0.44
1:B:778:VAL:O	1:B:797:LYS:HB2	2.17	0.44
1:B:863:ILE:HG22	1:B:876:THR:CB	2.35	0.44
1:B:889:ILE:CD1	1:B:907:TYR:CZ	3.01	0.44
1:A:332:ASP:O	1:A:333:LEU:HD23	2.18	0.43
1:A:53:LEU:HD11	1:A:501:LEU:HD11	2.00	0.43
1:A:567:ILE:HD11	1:A:650:PHE:CE2	2.53	0.43
1:A:574:VAL:CG2	1:A:613:SER:HB3	2.48	0.43
1:A:62:ILE:CD1	1:A:73:LEU:HD12	2.45	0.43
1:A:764:THR:CG2	1:A:766:TYR:CZ	3.01	0.43
1:A:874:LYS:H	1:A:982:SER:HB2	1.80	0.43
1:B:189:ASP:HB3	1:B:191:LYS:HD3	1.99	0.43
1:B:306:TYR:HE1	1:B:351:GLU:HG2	1.83	0.43
1:B:53:LEU:HD11	1:B:501:LEU:HD11	2.00	0.43
1:B:711:VAL:HG21	1:B:798:VAL:CG2	2.48	0.43
1:B:841:GLU:HG3	1:B:842:SER:N	2.32	0.43
1:A:711:VAL:HG21	1:A:798:VAL:CG2	2.48	0.43
1:A:832:THR:HG21	1:A:836:HIS:CB	2.48	0.43
1:B:541:CYS:HB3	1:B:544:SER:HB3	1.99	0.43
1:A:119:ILE:HG23	1:A:121:TYR:CE1	2.53	0.43
1:A:333:LEU:HD23	1:A:358:ILE:HG13	2.00	0.43
1:A:589:GLY:C	1:A:639:LYS:HG2	2.39	0.43
1:B:151:PRO:HB2	1:B:157:HIS:CE1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:324:THR:HG22	1:B:324:THR:O	2.18	0.43
1:B:555:LYS:NZ	1:B:556:GLN:HG2	2.33	0.43
1:B:574:VAL:HG22	1:B:613:SER:OG	2.17	0.43
1:B:764:THR:CG2	1:B:766:TYR:CZ	3.01	0.43
1:B:889:ILE:HA	1:B:892:HIS:ND1	2.33	0.43
1:A:1031:LEU:HD22	1:A:1031:LEU:N	2.34	0.43
1:A:1016:MET:HE2	1:A:1033:PHE:H	1.84	0.43
1:A:1014:LEU:HA	1:A:1035:TYR:HB2	2.00	0.43
1:A:435:ILE:CD1	1:A:486:PHE:HD1	2.31	0.43
1:A:590:VAL:CG1	1:A:591:ASN:N	2.82	0.43
1:A:62:ILE:CD1	1:A:501:LEU:HD13	2.49	0.43
1:A:531:LEU:C	1:A:641:THR:HG1	2.19	0.43
1:A:743:GLN:CD	1:A:743:GLN:H	2.22	0.43
1:A:839:ALA:HB1	1:A:841:GLU:O	2.18	0.43
1:B:296:PRO:HB2	1:B:417:MET:CE	2.48	0.43
1:B:370:LEU:HD12	1:B:399:ILE:HG23	2.00	0.43
1:B:456:LYS:HD3	1:B:523:ASP:OD2	2.10	0.43
1:B:527:GLY:HA3	1:B:550:PHE:HZ	1.72	0.43
1:B:528:TRP:HZ2	1:B:533:ASN:OD1	2.01	0.43
1:B:563:HIS:CB	1:B:577:VAL:CG1	2.95	0.43
1:B:589:GLY:C	1:B:639:LYS:HG2	2.39	0.43
1:A:173:VAL:HG23	1:A:173:VAL:O	2.18	0.43
1:A:224:SER:HA	1:A:289:PHE:CD1	2.54	0.43
1:A:501:LEU:CD2	1:A:502:THR:N	2.81	0.43
1:A:832:THR:CG2	1:A:836:HIS:CB	2.95	0.43
1:B:333:LEU:HD23	1:B:358:ILE:HG13	2.00	0.43
1:B:458:ARG:HB2	1:B:468:GLN:HE22	1.83	0.43
1:B:574:VAL:CG2	1:B:613:SER:HB3	2.48	0.43
1:B:839:ALA:HB1	1:B:841:GLU:O	2.18	0.43
1:A:962:ARG:HD3	1:A:1034:GLN:HE21	1.83	0.43
1:A:128:ALA:O	1:A:138:LYS:HG2	2.19	0.43
1:A:100:VAL:HG21	1:A:158:TYR:OH	2.19	0.43
1:A:162:VAL:HG12	1:A:164:GLU:H	1.84	0.43
1:A:295:VAL:CB	1:A:414:VAL:HG21	2.48	0.43
1:A:296:PRO:HB2	1:A:417:MET:CE	2.48	0.43
1:A:470:GLU:HG2	1:A:471:THR:N	2.34	0.43
1:A:716:ILE:CD1	1:A:763:ASN:HB3	2.49	0.43
1:A:978:LEU:HD13	1:A:1003:ILE:HG13	2.01	0.43
1:B:117:LEU:HG	1:B:126:LEU:HD11	2.01	0.43
1:B:217:PHE:CE2	1:B:219:ASP:HB2	2.53	0.43
1:B:281:ARG:HB3	1:B:293:VAL:HG11	1.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:40:VAL:O	1:B:40:VAL:HG13	2.17	0.43
1:B:435:ILE:CD1	1:B:486:PHE:HD1	2.31	0.43
1:B:440:LYS:HB2	1:B:538:LYS:HZ2	1.84	0.43
1:B:764:THR:HG23	1:B:766:TYR:CZ	2.54	0.43
1:B:95:TYR:HA	1:B:95:TYR:HD1	1.70	0.43
1:A:965:MET:HG3	1:A:1010:SER:O	2.18	0.43
1:A:962:ARG:CB	1:A:1034:GLN:HG3	2.45	0.43
1:A:185:ALA:CB	1:A:243:TYR:CE2	3.02	0.43
1:A:305:GLU:HG2	1:A:307:ARG:HG2	1.99	0.43
1:A:764:THR:HG23	1:A:766:TYR:CZ	2.54	0.43
1:B:119:ILE:HG21	1:B:121:TYR:CE1	2.54	0.43
1:B:460:ASP:CG	1:B:463:LYS:HB3	2.39	0.43
1:B:542:GLU:HG2	1:B:543:ARG:HG3	2.01	0.43
1:B:549:ARG:HD3	1:B:584:PRO:CB	2.48	0.43
1:A:1010:SER:HB2	1:A:1035:TYR:CE1	2.52	0.43
1:A:1016:MET:CE	1:A:1033:PHE:CB	2.94	0.43
1:A:555:LYS:NZ	1:A:556:GLN:HG2	2.33	0.43
1:A:562:VAL:HG22	1:A:578:LEU:HD22	1.98	0.43
1:A:620:PRO:O	1:A:623:ILE:HG13	2.18	0.43
1:A:72:LYS:CD	1:A:80:LEU:CD1	2.97	0.43
1:B:506:VAL:CG2	1:B:525:HIS:CE1	2.81	0.43
1:A:333:LEU:HD23	1:A:358:ILE:HA	2.01	0.43
1:A:62:ILE:CD1	1:A:64:LEU:HD21	2.46	0.43
1:A:789:ASN:HD22	1:A:790:ILE:N	2.17	0.43
1:B:100:VAL:HG21	1:B:158:TYR:OH	2.19	0.43
1:B:234:THR:CG2	1:B:235:VAL:N	2.82	0.43
1:B:358:ILE:HG23	1:B:358:ILE:O	2.18	0.43
1:B:506:VAL:HG21	1:B:525:HIS:NE2	2.22	0.43
1:B:620:PRO:O	1:B:623:ILE:HG13	2.18	0.43
1:B:949:TYR:CE2	1:B:951:MET:HE2	2.53	0.43
1:A:117:LEU:HG	1:A:126:LEU:HD11	2.01	0.43
1:A:112:ASN:ND2	1:A:133:TYR:HE2	2.17	0.43
1:A:186:THR:CG2	1:A:187:ALA:N	2.81	0.43
1:A:281:ARG:HB3	1:A:293:VAL:HG11	1.97	0.43
1:A:617:LYS:HG3	1:A:618:GLU:N	2.34	0.43
1:A:55:VAL:HG22	1:A:62:ILE:HG22	2.00	0.43
1:A:805:ALA:N	1:A:806:MET:CE	2.82	0.43
1:A:885:GLU:HG3	1:A:886:PHE:N	2.34	0.43
1:B:123:GLU:HB2	1:B:125:ARG:HG2	2.01	0.43
1:B:470:GLU:HG2	1:B:471:THR:N	2.34	0.43
1:B:501:LEU:CD2	1:B:502:THR:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:617:LYS:HG3	1:B:618:GLU:N	2.34	0.43
1:B:789:ASN:HD22	1:B:790:ILE:N	2.17	0.43
1:A:665:VAL:HG11	1:A:697:PRO:CD	2.48	0.42
1:A:98:ARG:HE	1:A:107:LEU:HD12	1.83	0.42
1:B:90:ASP:C	1:B:107:LEU:HD22	2.39	0.42
1:B:128:ALA:O	1:B:138:LYS:HG2	2.19	0.42
1:B:62:ILE:CD1	1:B:501:LEU:HD13	2.49	0.42
1:B:713:VAL:O	1:B:714:GLU:HB2	2.18	0.42
1:A:90:ASP:C	1:A:107:LEU:HD22	2.39	0.42
1:A:192:PRO:HB3	1:A:233:PHE:CZ	2.51	0.42
1:A:972:THR:HG23	1:A:1002:TYR:HE1	1.72	0.42
1:B:133:TYR:CB	1:B:136:ILE:HG23	2.49	0.42
1:B:178:PHE:O	1:B:178:PHE:HD1	2.02	0.42
1:B:543:ARG:HB2	1:B:549:ARG:NH1	2.34	0.42
1:B:567:ILE:HD11	1:B:650:PHE:CE2	2.53	0.42
1:B:665:VAL:HG11	1:B:697:PRO:CD	2.48	0.42
1:A:1032:VAL:CG1	1:A:1033:PHE:N	2.82	0.42
1:A:110:THR:HG21	1:A:132:LEU:HD21	1.97	0.42
1:A:458:ARG:HB2	1:A:468:GLN:HE22	1.83	0.42
1:A:541:CYS:HB2	1:A:544:SER:HB3	2.01	0.42
1:A:630:HIS:CD2	1:A:632:VAL:CG2	3.00	0.42
1:A:889:ILE:HG23	1:A:892:HIS:NE2	2.33	0.42
1:B:185:ALA:CB	1:B:243:TYR:CE2	3.02	0.42
1:B:358:ILE:HG23	1:B:361:GLN:N	2.24	0.42
1:B:605:ILE:O	1:B:608:GLN:HG2	2.20	0.42
1:B:689:PHE:HD1	1:B:691:GLU:HG2	1.80	0.42
1:A:1029:GLN:CG	1:A:1030:ASP:N	2.83	0.42
1:A:119:ILE:HG21	1:A:121:TYR:CE1	2.54	0.42
1:A:225:MET:CE	1:A:227:LYS:CG	2.94	0.42
1:A:370:LEU:HD12	1:A:399:ILE:HG23	2.00	0.42
1:A:471:THR:HG21	1:A:473:GLN:OE1	2.19	0.42
1:A:567:ILE:CD1	1:A:567:ILE:N	2.82	0.42
1:A:710:LEU:HD12	1:A:710:LEU:C	2.40	0.42
1:A:865:VAL:CG1	1:A:866:THR:N	2.82	0.42
1:A:953:LEU:HD12	1:A:978:LEU:HD23	2.01	0.42
1:A:868:PRO:CD	1:A:981:GLY:HA2	1.99	0.42
1:B:224:SER:HA	1:B:289:PHE:CD1	2.54	0.42
1:B:662:LEU:HD23	1:B:791:ASP:CB	2.48	0.42
1:A:962:ARG:HD3	1:A:1034:GLN:NE2	2.34	0.42
1:A:169:PHE:CD2	1:A:170:GLY:N	2.84	0.42
1:A:178:PHE:O	1:A:178:PHE:HD1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:358:ILE:HG23	1:A:361:GLN:N	2.24	0.42
1:A:358:ILE:HG23	1:A:358:ILE:O	2.18	0.42
1:A:955:LEU:CG	1:A:973:ILE:CG2	2.95	0.42
1:B:216:VAL:CG1	1:B:217:PHE:N	2.82	0.42
1:B:333:LEU:HD23	1:B:358:ILE:HA	2.01	0.42
1:B:567:ILE:N	1:B:567:ILE:CD1	2.82	0.42
1:B:590:VAL:CG1	1:B:591:ASN:N	2.82	0.42
1:B:759:VAL:CG1	1:B:760:GLN:N	2.81	0.42
1:B:885:GLU:HG3	1:B:886:PHE:N	2.34	0.42
1:B:889:ILE:HG23	1:B:892:HIS:NE2	2.33	0.42
1:A:1007:THR:HG22	1:A:1008:THR:N	2.33	0.42
1:A:123:GLU:HB2	1:A:125:ARG:HG2	2.01	0.42
1:A:460:ASP:CG	1:A:463:LYS:HB3	2.39	0.42
1:A:435:ILE:HG21	1:A:486:PHE:HE1	1.81	0.42
1:A:543:ARG:HB2	1:A:549:ARG:NH1	2.34	0.42
1:A:959:LYS:HG2	1:A:972:THR:HG21	2.01	0.42
1:B:112:ASN:ND2	1:B:133:TYR:HE2	2.17	0.42
1:B:186:THR:CG2	1:B:187:ALA:N	2.81	0.42
1:B:471:THR:HG21	1:B:473:GLN:OE1	2.19	0.42
1:B:68:ASN:CB	1:B:86:GLY:HA3	2.50	0.42
1:A:256:LEU:CB	1:A:309:LEU:CD2	2.94	0.42
1:A:549:ARG:CD	1:A:584:PRO:HB3	2.42	0.42
1:A:830:GLN:CG	1:A:831:CYS:H	2.24	0.42
1:B:321:LEU:HD23	1:B:333:LEU:CD1	2.50	0.42
1:A:542:GLU:HG2	1:A:543:ARG:HG3	2.00	0.42
1:A:845:LEU:HD11	1:A:852:SER:OG	2.20	0.42
1:B:458:ARG:HD2	1:B:524:PRO:CB	2.31	0.42
1:B:437:TYR:HH	1:B:525:HIS:CD2	2.37	0.42
1:B:653:TYR:CZ	1:B:682:HIS:CE1	3.07	0.42
1:B:700:CYS:HA	1:B:701:PRO:HD3	1.45	0.42
1:A:234:THR:CG2	1:A:235:VAL:N	2.82	0.42
1:A:324:THR:HG22	1:A:324:THR:O	2.18	0.42
1:A:370:LEU:CD2	1:A:374:TYR:HE1	2.28	0.42
1:A:562:VAL:HG22	1:A:578:LEU:HD23	1.99	0.42
1:A:566:ASN:CA	1:A:651:VAL:CG2	2.95	0.42
1:A:783:VAL:CG1	1:A:784:TRP:N	2.83	0.42
1:B:446:PHE:CB	1:B:454:LEU:HD11	2.43	0.42
1:B:562:VAL:HG22	1:B:578:LEU:HD23	1.99	0.42
1:B:563:HIS:HB2	1:B:577:VAL:HG13	2.01	0.42
1:A:380:LEU:HD22	1:A:412:LEU:HB3	2.02	0.42
1:A:662:LEU:O	1:A:666:GLU:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:62:ILE:CD1	1:A:73:LEU:HB2	2.47	0.42
1:A:888:ASP:OD1	1:A:889:ILE:HG13	2.20	0.42
1:A:920:ALA:C	1:A:922:PRO:HD2	2.41	0.42
1:B:39:PHE:CZ	1:B:473:GLN:HG3	2.53	0.42
1:B:528:TRP:CZ2	1:B:533:ASN:OD1	2.73	0.42
1:B:783:VAL:CG1	1:B:784:TRP:N	2.83	0.42
1:B:926:ALA:HB2	1:B:949:TYR:CD1	2.55	0.42
1:A:412:LEU:CD1	1:A:412:LEU:N	2.83	0.41
1:A:440:LYS:HD2	1:A:538:LYS:HD2	1.93	0.41
1:A:605:ILE:O	1:A:608:GLN:HG2	2.19	0.41
1:A:67:VAL:CG1	1:A:111:ASN:HB3	2.50	0.41
1:B:162:VAL:HG12	1:B:164:GLU:H	1.84	0.41
1:B:177:ASN:O	1:B:178:PHE:CG	2.73	0.41
1:B:256:LEU:HD12	1:B:297:ILE:HD11	2.02	0.41
1:B:575:LEU:N	1:B:575:LEU:CD2	2.83	0.41
1:B:623:ILE:HD12	1:B:624:THR:HA	2.02	0.41
1:B:64:LEU:HD12	1:B:496:MET:HE3	1.98	0.41
1:B:817:ASP:OD1	1:B:820:PHE:CD2	2.73	0.41
1:A:216:VAL:CG1	1:A:217:PHE:N	2.82	0.41
1:A:44:GLY:O	1:A:47:ALA:HA	2.20	0.41
1:A:440:LYS:HB3	1:A:538:LYS:HZ3	1.79	0.41
1:A:817:ASP:OD1	1:A:820:PHE:CD2	2.73	0.41
1:A:68:ASN:CB	1:A:86:GLY:HA3	2.50	0.41
1:A:959:LYS:CG	1:A:972:THR:CB	2.97	0.41
1:B:159:LEU:HG	1:B:201:ARG:NH1	2.35	0.41
1:B:403:PHE:CE2	1:B:405:GLY:HA2	2.55	0.41
1:B:492:GLN:HB3	1:B:503:ARG:HG3	2.02	0.41
1:B:728:GLN:HG3	1:B:753:ARG:NH2	2.35	0.41
1:B:716:ILE:CD1	1:B:763:ASN:HB3	2.49	0.41
1:B:72:LYS:CE	1:B:80:LEU:CD1	2.95	0.41
1:A:1016:MET:HE2	1:A:1033:PHE:CB	2.49	0.41
1:A:177:ASN:O	1:A:178:PHE:CG	2.73	0.41
1:A:387:VAL:CG1	1:A:388:LYS:N	2.82	0.41
1:A:446:PHE:CD1	1:A:446:PHE:N	2.88	0.41
1:A:569:VAL:HB	1:A:654:ASN:CG	2.41	0.41
1:A:728:GLN:HG3	1:A:753:ARG:NH2	2.35	0.41
1:B:412:LEU:N	1:B:412:LEU:CD1	2.83	0.41
1:B:444:LEU:HD23	1:B:524:PRO:HG2	1.91	0.41
1:B:619:VAL:HB	1:B:620:PRO:CD	2.47	0.41
1:B:865:VAL:CG1	1:B:866:THR:N	2.82	0.41
1:A:111:ASN:O	1:A:132:LEU:HD13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:188:VAL:HG22	1:A:188:VAL:O	2.21	0.41
1:A:307:ARG:HA	1:A:307:ARG:HD3	1.88	0.41
1:A:349:LEU:CD2	1:A:349:LEU:N	2.84	0.41
1:A:403:PHE:CE2	1:A:405:GLY:HA2	2.55	0.41
1:A:563:HIS:HB2	1:A:577:VAL:HG13	2.01	0.41
1:A:631:VAL:HG13	1:A:631:VAL:O	2.19	0.41
1:A:711:VAL:HB	1:A:800:LEU:HD23	2.02	0.41
1:A:926:ALA:HB2	1:A:949:TYR:CD1	2.55	0.41
1:A:978:LEU:HA	1:A:978:LEU:HD23	1.93	0.41
1:B:110:THR:HG21	1:B:132:LEU:HD21	1.97	0.41
1:B:225:MET:CE	1:B:227:LYS:CG	2.94	0.41
1:B:446:PHE:CD1	1:B:446:PHE:N	2.89	0.41
1:B:562:VAL:HG22	1:B:578:LEU:HD22	1.98	0.41
1:B:679:VAL:CG1	1:B:680:CYS:N	2.82	0.41
1:B:862:ILE:HG21	1:B:877:ILE:HG12	2.03	0.41
1:B:920:ALA:C	1:B:922:PRO:HD2	2.40	0.41
1:A:988:PHE:CB	1:A:1016:MET:SD	3.06	0.41
1:A:1031:LEU:H	1:A:1031:LEU:HD22	1.84	0.41
1:A:133:TYR:CB	1:A:136:ILE:HG23	2.49	0.41
1:A:159:LEU:HG	1:A:201:ARG:NH1	2.36	0.41
1:A:226:ILE:HD11	1:A:385:LEU:HD23	2.03	0.41
1:A:531:LEU:HA	1:A:531:LEU:HD23	1.91	0.41
1:B:137:CYS:SG	1:B:159:LEU:CD1	3.09	0.41
1:B:280:VAL:CG1	1:B:281:ARG:N	2.83	0.41
1:B:380:LEU:HD22	1:B:412:LEU:HB3	2.02	0.41
1:B:631:VAL:HG13	1:B:631:VAL:O	2.19	0.41
1:B:803:CYS:SG	1:B:832:THR:HA	2.61	0.41
1:B:949:TYR:CE2	1:B:951:MET:HE1	2.55	0.41
1:A:446:PHE:CB	1:A:454:LEU:HD11	2.43	0.41
1:A:703:LEU:HD13	1:A:723:ALA:CB	2.47	0.41
1:A:862:ILE:HG21	1:A:877:ILE:HG12	2.03	0.41
1:A:958:LEU:HD22	1:A:960:PRO:N	2.35	0.41
1:A:959:LYS:CG	1:A:972:THR:HG21	2.51	0.41
1:B:185:ALA:HB3	1:B:243:TYR:CD2	2.56	0.41
1:B:444:LEU:HD12	1:B:446:PHE:CD1	2.51	0.41
1:B:444:LEU:HD13	1:B:445:ALA:H	1.79	0.41
1:B:453:LYS:CE	1:B:472:VAL:HG22	2.51	0.41
1:B:506:VAL:CG1	1:B:507:GLU:N	2.84	0.41
1:B:541:CYS:HB2	1:B:544:SER:HB3	2.01	0.41
1:B:551:ALA:HB1	1:B:556:GLN:HB2	2.03	0.41
1:B:778:VAL:HG12	1:B:779:GLU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:805:ALA:N	1:B:806:MET:CE	2.82	0.41
1:B:888:ASP:OD1	1:B:889:ILE:HG13	2.20	0.41
1:A:380:LEU:CB	1:A:386:LYS:CE	2.95	0.41
1:A:492:GLN:HB3	1:A:503:ARG:HG3	2.02	0.41
1:A:679:VAL:CG1	1:A:680:CYS:N	2.82	0.41
1:A:759:VAL:CG1	1:A:760:GLN:N	2.81	0.41
1:A:95:TYR:CG	1:A:96:PRO:CD	3.03	0.41
1:B:67:VAL:CG1	1:B:111:ASN:HB3	2.50	0.41
1:B:137:CYS:O	1:B:150:GLU:HG3	2.20	0.41
1:B:387:VAL:CG1	1:B:388:LYS:N	2.82	0.41
1:B:44:GLY:O	1:B:47:ALA:HA	2.20	0.41
1:B:658:HIS:ND1	1:B:663:SER:HB3	2.36	0.41
1:A:972:THR:CG2	1:A:1002:TYR:CE1	2.93	0.41
1:A:137:CYS:O	1:A:150:GLU:HG3	2.20	0.41
1:A:188:VAL:CG2	1:A:191:LYS:HB2	2.51	0.41
1:A:185:ALA:HB3	1:A:243:TYR:CD2	2.56	0.41
1:A:280:VAL:CG1	1:A:281:ARG:N	2.83	0.41
1:A:988:PHE:CD2	1:A:1016:MET:SD	3.12	0.41
1:B:492:GLN:CG	1:B:503:ARG:HD2	2.51	0.41
1:B:95:TYR:CG	1:B:96:PRO:CD	3.03	0.41
1:A:137:CYS:SG	1:A:159:LEU:CD1	3.09	0.41
1:A:236:ILE:CG2	1:A:239:PHE:HB2	2.51	0.41
1:A:480:VAL:HB	1:A:484:MET:HE2	2.01	0.41
1:A:492:GLN:CG	1:A:503:ARG:HD2	2.51	0.41
1:A:528:TRP:CZ2	1:A:533:ASN:OD1	2.73	0.41
1:B:188:VAL:CG2	1:B:191:LYS:HB2	2.51	0.41
1:B:226:ILE:HD11	1:B:385:LEU:HD23	2.03	0.41
1:B:239:PHE:CD1	1:B:260:PRO:CD	3.03	0.41
1:B:696:LEU:HA	1:B:697:PRO:HD3	1.87	0.41
1:B:710:LEU:C	1:B:710:LEU:HD12	2.40	0.41
1:B:832:THR:HG21	1:B:836:HIS:HB2	1.99	0.41
1:B:843:ARG:CZ	1:B:843:ARG:CB	2.99	0.41
1:A:117:LEU:HD11	1:A:126:LEU:CD2	2.31	0.41
1:A:619:VAL:HB	1:A:620:PRO:CD	2.47	0.41
1:A:623:ILE:HD12	1:A:624:THR:HA	2.01	0.41
1:A:959:LYS:HG2	1:A:972:THR:HB	2.02	0.41
1:A:953:LEU:HA	1:A:977:ASN:HB2	2.02	0.41
1:B:111:ASN:O	1:B:132:LEU:HD13	2.20	0.41
1:B:236:ILE:CG2	1:B:239:PHE:HB2	2.51	0.41
1:B:349:LEU:CD2	1:B:349:LEU:N	2.84	0.41
1:B:560:LEU:CG	1:B:648:THR:CG2	2.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:683:ASP:HA	1:B:684:PRO:HD3	1.83	0.41
1:B:703:LEU:HD13	1:B:723:ALA:CB	2.47	0.41
1:B:901:SER:HA	1:B:902:PRO:HD2	1.89	0.41
1:A:111:ASN:O	1:A:132:LEU:HD22	2.21	0.41
1:A:95:TYR:CE2	1:A:194:TYR:CD1	3.09	0.41
1:A:252:PHE:HE1	1:A:283:CYS:SG	2.44	0.41
1:A:256:LEU:HD12	1:A:297:ILE:HD11	2.01	0.41
1:A:321:LEU:HD23	1:A:333:LEU:CD1	2.50	0.41
1:A:551:ALA:HB1	1:A:556:GLN:HB2	2.03	0.41
1:A:560:LEU:CG	1:A:648:THR:CG2	2.98	0.41
1:A:658:HIS:ND1	1:A:663:SER:HB3	2.36	0.41
1:A:778:VAL:HG12	1:A:779:GLU:O	2.20	0.41
1:A:832:THR:HG21	1:A:836:HIS:HB2	1.99	0.41
1:B:469:TYR:CZ	1:B:470:GLU:O	2.74	0.41
1:B:560:LEU:HB3	1:B:648:THR:CG2	2.51	0.41
1:B:711:VAL:HB	1:B:800:LEU:HD23	2.02	0.41
1:A:313:TYR:CZ	1:A:435:ILE:CD1	3.05	0.40
1:B:141:ARG:HB3	1:B:144:ASP:OD1	2.21	0.40
1:B:188:VAL:HG22	1:B:188:VAL:O	2.21	0.40
1:B:667:SER:HB3	1:B:668:PRO:CD	2.51	0.40
1:B:832:THR:CG2	1:B:836:HIS:CB	2.95	0.40
1:A:185:ALA:CB	1:A:243:TYR:CD1	3.00	0.40
1:A:469:TYR:CZ	1:A:470:GLU:O	2.74	0.40
1:A:45:GLU:CB	1:A:46:PRO:CD	3.00	0.40
1:A:667:SER:HB3	1:A:668:PRO:CD	2.51	0.40
1:A:873:THR:OG1	1:A:981:GLY:C	2.59	0.40
1:A:955:LEU:HD23	1:A:957:ASP:N	2.37	0.40
1:B:169:PHE:CD2	1:B:170:GLY:N	2.84	0.40
1:B:219:ASP:HB3	1:B:222:VAL:H	1.86	0.40
1:B:242:TYR:CE1	1:B:345:LYS:HE2	2.56	0.40
1:B:44:GLY:CA	1:B:50:PHE:HE2	2.23	0.40
1:A:131:SER:O	1:A:133:TYR:CD2	2.74	0.40
1:A:453:LYS:CE	1:A:472:VAL:HG22	2.51	0.40
1:A:527:GLY:HA3	1:A:550:PHE:HZ	1.72	0.40
1:B:172:ILE:CG1	1:B:182:LEU:HD13	2.46	0.40
1:B:282:LEU:HD23	1:B:292:TYR:HA	2.03	0.40
1:B:450:LYS:CA	1:B:479:PRO:HB3	2.49	0.40
1:B:62:ILE:CD1	1:B:64:LEU:HD21	2.46	0.40
1:B:662:LEU:O	1:B:666:GLU:HB3	2.20	0.40
1:B:95:TYR:CE2	1:B:194:TYR:CD1	3.09	0.40
1:A:188:VAL:HG13	1:A:189:ASP:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:219:ASP:HB3	1:A:222:VAL:H	1.86	0.40
1:A:259:GLN:HA	1:A:260:PRO:HD3	1.82	0.40
1:A:276:THR:HB	1:A:278:LYS:HZ2	1.86	0.40
1:A:455:LYS:HB3	1:A:467:LEU:CD1	2.52	0.40
1:A:773:ILE:N	1:A:773:ILE:CD1	2.82	0.40
1:A:803:CYS:SG	1:A:832:THR:HA	2.61	0.40
1:A:904:VAL:CG1	1:A:905:ASP:N	2.82	0.40
1:A:896:ALA:HB1	1:A:924:GLN:OE1	2.22	0.40
1:B:313:TYR:CZ	1:B:435:ILE:CD1	3.04	0.40
1:B:410:ALA:CB	1:B:411:PRO:CD	2.98	0.40
1:B:660:SER:HB2	1:B:791:ASP:OD2	2.22	0.40
1:B:904:VAL:CG1	1:B:905:ASP:N	2.82	0.40
1:A:282:LEU:HD23	1:A:292:TYR:HA	2.03	0.40
1:A:242:TYR:CE1	1:A:345:LYS:HE2	2.56	0.40
1:A:847:LEU:CD1	1:A:850:ALA:CA	2.94	0.40
1:A:943:ARG:HB2	1:A:943:ARG:CZ	2.51	0.40
1:B:131:SER:O	1:B:133:TYR:CD2	2.74	0.40
1:B:53:LEU:CG	1:B:64:LEU:CD1	2.96	0.40
1:B:681:THR:OG1	1:B:686:THR:HG21	2.21	0.40
1:B:81:VAL:CG1	1:B:82:THR:N	2.85	0.40
1:B:889:ILE:HD12	1:B:907:TYR:CE1	2.56	0.40
1:B:943:ARG:CZ	1:B:943:ARG:HB2	2.51	0.40

All (61) 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)
1:A:146:PHE:CE1	1:B:730:GLN:CD[1_655]	0.64	1.56
1:B:287:THR:OG1	1:B:840:HIS:CG[1_655]	0.67	1.53
1:A:146:PHE:CE1	1:B:730:GLN:OE1[1_655]	0.77	1.43
1:A:146:PHE:CD1	1:B:730:GLN:OE1[1_655]	0.78	1.42
1:B:287:THR:CA	1:B:840:HIS:NE2[1_655]	0.79	1.41
1:B:287:THR:CB	1:B:840:HIS:CG[1_655]	0.85	1.35
1:B:287:THR:CB	1:B:840:HIS:CD2[1_655]	0.93	1.27
1:B:287:THR:CA	1:B:840:HIS:CD2[1_655]	1.03	1.17
1:A:146:PHE:CZ	1:B:730:GLN:NE2[1_655]	1.20	1.00
1:B:287:THR:OG1	1:B:840:HIS:ND1[1_655]	1.52	0.68
1:A:407:ASP:OD2	1:A:926:ALA:O[1_554]	1.55	0.65
1:B:220:GLU:OE2	1:B:939:GLU:OE1[1_655]	1.56	0.64
1:A:148:LEU:O	1:B:728:GLN:OE1[1_655]	1.56	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:287:THR:OG1	1:B:840:HIS:CB[1_655]	1.58	0.62
1:B:287:THR:OG1	1:B:840:HIS:CD2[1_655]	1.61	0.59
1:A:83:HIS:CE1	1:B:731:SER:OG[1_655]	1.62	0.58
1:B:219:ASP:OD1	1:B:826:GLN:OE1[1_655]	1.68	0.52
1:B:288:ALA:CB	1:B:841:GLU:OE1[1_655]	1.71	0.49
1:B:287:THR:CA	1:B:840:HIS:CE1[1_655]	1.74	0.46
1:A:146:PHE:CE1	1:B:730:GLN:CG[1_655]	1.75	0.45
1:A:146:PHE:CZ	1:B:730:GLN:OE1[1_655]	1.75	0.45
1:A:146:PHE:CG	1:B:730:GLN:OE1[1_655]	1.75	0.45
1:B:287:THR:CG2	1:B:840:HIS:CD2[1_655]	1.77	0.43
1:B:287:THR:CG2	1:B:840:HIS:C[1_655]	1.78	0.42
1:A:728:GLN:OE1	1:B:148:LEU:O[2_646]	1.83	0.37
1:A:730:GLN:OE1	1:B:146:PHE:CE1[2_646]	1.84	0.36
1:A:731:SER:OG	1:B:83:HIS:ND1[2_646]	1.85	0.35
1:B:219:ASP:OD1	1:B:826:GLN:CG[1_655]	1.86	0.34
1:A:146:PHE:CE1	1:B:730:GLN:NE2[1_655]	1.88	0.32
1:A:728:GLN:NE2	1:B:148:LEU:O[2_646]	1.89	0.31
1:B:217:PHE:CD1	1:B:827:SER:OG[1_655]	1.90	0.30
1:A:752:LEU:CD2	1:B:152:PHE:CE1[2_646]	1.91	0.29
1:B:287:THR:CB	1:B:840:HIS:CB[1_655]	1.91	0.29
1:B:287:THR:CB	1:B:840:HIS:ND1[1_655]	1.92	0.28
1:B:217:PHE:CE1	1:B:827:SER:OG[1_655]	1.93	0.27
1:A:208:GLU:OE2	1:B:728:GLN:NE2[1_655]	1.93	0.27
1:A:146:PHE:CD1	1:B:730:GLN:CD[1_655]	1.94	0.26
1:B:220:GLU:OE2	1:B:939:GLU:CD[1_655]	1.96	0.24
1:B:287:THR:N	1:B:840:HIS:NE2[1_655]	1.98	0.22
1:A:148:LEU:O	1:B:728:GLN:CD[1_655]	1.99	0.21
1:B:220:GLU:OE1	1:B:939:GLU:OE2[1_655]	2.00	0.20
1:B:287:THR:CA	1:B:840:HIS:CG[1_655]	2.01	0.19
1:A:730:GLN:NE2	1:B:146:PHE:CZ[2_646]	2.01	0.19
1:B:219:ASP:OD2	1:B:826:GLN:OE1[1_655]	2.01	0.19
1:B:287:THR:CB	1:B:840:HIS:NE2[1_655]	2.01	0.19
1:B:219:ASP:CG	1:B:826:GLN:OE1[1_655]	2.03	0.17
1:A:731:SER:OG	1:B:83:HIS:NE2[2_646]	2.03	0.17
1:B:219:ASP:CG	1:B:826:GLN:CD[1_655]	2.04	0.16
1:B:287:THR:O	1:B:840:HIS:NE2[1_655]	2.05	0.15
1:A:141:ARG:NH2	1:B:691:GLU:OE2[1_655]	2.06	0.14
1:A:208:GLU:OE2	1:B:728:GLN:CD[1_655]	2.08	0.12
1:A:728:GLN:CD	1:B:148:LEU:O[2_646]	2.09	0.11
1:B:287:THR:CG2	1:B:840:HIS:O[1_655]	2.09	0.11
1:A:407:ASP:OD1	1:A:924:GLN:OE1[1_554]	2.11	0.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:730:GLN:CD	1:B:146:PHE:CD1[2_646]	2.11	0.09
1:B:287:THR:CG2	1:B:840:HIS:CG[1_655]	2.12	0.08
1:B:287:THR:CG2	1:B:841:GLU:N[1_655]	2.13	0.07
1:A:208:GLU:OE1	1:B:753:ARG:NH2[1_655]	2.15	0.05
1:B:219:ASP:OD2	1:B:826:GLN:NE2[1_655]	2.16	0.04
1:A:728:GLN:OE1	1:B:148:LEU:C[2_646]	2.18	0.02
1:A:728:GLN:OE1	1:B:149:GLY:CA[2_646]	2.19	0.01

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	994/1207 (82%)	923 (93%)	51 (5%)	20 (2%)	9	51
1	B	907/1207 (75%)	845 (93%)	43 (5%)	19 (2%)	9	50
All	All	1901/2414 (79%)	1768 (93%)	94 (5%)	39 (2%)	9	50

All (39) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	96	PRO
1	A	181	LYS
1	A	191	LYS
1	A	410	ALA
1	A	465	ASN
1	A	804	GLY
1	A	864	PRO
1	B	96	PRO
1	B	181	LYS
1	B	191	LYS
1	B	410	ALA
1	B	465	ASN
1	B	557	CYS

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Mol	Chain	Res	Type
1	B	700	CYS
1	B	701	PRO
1	B	804	GLY
1	B	864	PRO
1	A	87	PRO
1	B	87	PRO
1	A	271	LYS
1	A	474	VAL
1	A	557	CYS
1	A	849	GLY
1	A	1015	ASP
1	A	1016	MET
1	B	271	LYS
1	B	474	VAL
1	B	849	GLY
1	A	263	VAL
1	B	263	VAL
1	A	344	ARG
1	B	344	ARG
1	A	933	VAL
1	A	1013	VAL
1	B	933	VAL
1	A	44	GLY
1	A	921	LYS
1	B	921	LYS
1	B	44	GLY

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	888/1067 (83%)	861 (97%)	27 (3%)	48	77
1	B	812/1067 (76%)	789 (97%)	23 (3%)	51	78
All	All	1700/2134 (80%)	1650 (97%)	50 (3%)	50	78

All (50) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	69	ARG
1	A	72	LYS
1	A	271	LYS
1	A	386	LYS
1	A	412	LEU
1	A	435	ILE
1	A	468	GLN
1	A	473	GLN
1	A	523	ASP
1	A	529	CYS
1	A	548	ARG
1	A	567	ILE
1	A	575	LEU
1	A	597	LEU
1	A	621	ARG
1	A	670	ARG
1	A	743	GLN
1	A	773	ILE
1	A	797	LYS
1	A	806	MET
1	A	853	LYS
1	A	854	CYS
1	A	892	HIS
1	A	1004	ILE
1	A	1016	MET
1	A	1017	LYS
1	A	1024	ARG
1	B	69	ARG
1	B	72	LYS
1	B	271	LYS
1	B	386	LYS
1	B	412	LEU
1	B	435	ILE
1	B	468	GLN
1	B	473	GLN
1	B	523	ASP
1	B	529	CYS
1	B	548	ARG
1	B	567	ILE
1	B	575	LEU
1	B	597	LEU
1	B	621	ARG
1	B	670	ARG

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Mol	Chain	Res	Type
1	B	743	GLN
1	B	773	ILE
1	B	797	LYS
1	B	806	MET
1	B	853	LYS
1	B	854	CYS
1	B	892	HIS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (53) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	51	ASN
1	A	101	GLN
1	A	157	HIS
1	A	163	ASN
1	A	273	GLN
1	A	361	GLN
1	A	441	ASN
1	A	442	HIS
1	A	473	GLN
1	A	500	GLN
1	A	533	ASN
1	A	626	ASN
1	A	630	HIS
1	A	672	HIS
1	A	685	ASN
1	A	690	GLN
1	A	702	GLN
1	A	728	GLN
1	A	747	GLN
1	A	789	ASN
1	A	792	ASN
1	A	826	GLN
1	A	836	HIS
1	A	892	HIS
1	A	970	GLN
1	A	983	ASN
1	A	1006	ASN
1	B	51	ASN
1	B	101	GLN
1	B	157	HIS
1	B	163	ASN

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Mol	Chain	Res	Type
1	B	273	GLN
1	B	361	GLN
1	B	441	ASN
1	B	442	HIS
1	B	473	GLN
1	B	500	GLN
1	B	626	ASN
1	B	629	HIS
1	B	630	HIS
1	B	672	HIS
1	B	682	HIS
1	B	685	ASN
1	B	690	GLN
1	B	702	GLN
1	B	728	GLN
1	B	730	GLN
1	B	747	GLN
1	B	789	ASN
1	B	792	ASN
1	B	826	GLN
1	B	836	HIS
1	B	892	HIS

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 carbohydrates 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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	B	6
1	A	5

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	854:CYS	C	855:THR	N	2.49
1	A	802:LYS	C	803:CYS	N	2.46
1	A	951:MET	C	952:THR	N	2.32
1	B	653:TYR	C	654:ASN	N	2.31
1	B	802:LYS	C	803:CYS	N	2.01
1	A	506:VAL	C	507:GLU	N	1.87
1	B	506:VAL	C	507:GLU	N	1.82
1	B	700:CYS	C	701:PRO	N	1.63
1	A	700:CYS	C	701:PRO	N	1.04
1	B	557:CYS	C	558:VAL	N	0.94
1	A	557:CYS	C	558:VAL	N	0.86

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	A	1000/1207 (82%)	1.99	393 (39%) 0 4	195, 258, 410, 410	0
1	B	915/1207 (75%)	1.81	328 (35%) 0 4	209, 257, 329, 329	0
All	All	1915/2414 (79%)	1.90	721 (37%) 0 4	195, 257, 329, 410	0

All (721) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1029	GLN	16.5
1	A	269	THR	16.2
1	A	1018	VAL	14.5
1	A	270	THR	13.8
1	A	271	LYS	13.1
1	B	852	SER	12.8
1	A	268	SER	11.8
1	B	922	PRO	11.1
1	A	854	CYS	10.8
1	A	1031	LEU	10.4
1	A	1019	THR	10.3
1	A	1027	ILE	10.1
1	A	1020	VAL	10.0
1	B	854	CYS	9.6
1	A	1028	ARG	9.2
1	B	921	LYS	9.2
1	A	953	LEU	9.0
1	B	583	VAL	8.7
1	A	506	VAL	8.6
1	B	850	ALA	8.6
1	B	645	PHE	8.4
1	A	842	SER	8.3
1	B	923	SER	8.2
1	B	924	GLN	8.0

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Mol	Chain	Res	Type	RSRZ
1	A	525	HIS	8.0
1	B	926	ALA	8.0
1	B	919	GLU	7.9
1	B	636	LEU	7.8
1	A	272	GLU	7.8
1	B	584	PRO	7.7
1	A	505	PRO	7.5
1	B	585	GLU	7.4
1	B	920	ALA	7.4
1	B	637	LYS	7.4
1	A	727	PRO	7.4
1	B	592	CYS	7.3
1	A	267	GLY	7.2
1	A	507	GLU	7.2
1	B	586	LEU	7.1
1	B	925	HIS	7.0
1	B	644	THR	7.0
1	B	851	ASN	6.9
1	A	952	THR	6.8
1	B	849	GLY	6.7
1	A	883	GLY	6.6
1	A	524	PRO	6.6
1	A	250	GLY	6.6
1	B	853	LYS	6.4
1	A	955	LEU	6.4
1	B	720	THR	6.4
1	B	638	SER	6.4
1	A	273	GLN	6.3
1	B	437	TYR	6.2
1	A	1017	LYS	6.2
1	A	645	PHE	6.1
1	A	881	ASN	6.1
1	B	604	VAL	6.1
1	B	412	LEU	6.0
1	B	640	GLU	6.0
1	B	622	ILE	6.0
1	B	591	ASN	6.0
1	A	590	VAL	5.9
1	B	589	GLY	5.9
1	B	862	ILE	5.9
1	B	269	THR	5.9
1	A	882	LEU	5.9

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Mol	Chain	Res	Type	RSRZ
1	B	568	SER	5.8
1	A	523	ASP	5.8
1	A	988	PHE	5.8
1	A	1032	VAL	5.8
1	B	918	GLY	5.7
1	A	240	ASP	5.7
1	A	1030	ASP	5.6
1	B	646	ALA	5.6
1	A	694	VAL	5.6
1	A	811	GLY	5.6
1	A	853	LYS	5.6
1	B	870	GLU	5.6
1	B	650	PHE	5.6
1	B	590	VAL	5.6
1	B	884	LEU	5.6
1	B	548	ARG	5.6
1	B	847	LEU	5.5
1	A	238	ASP	5.5
1	A	986	VAL	5.5
1	A	927	GLY	5.4
1	A	1021	GLN	5.4
1	B	814	LEU	5.4
1	B	803	CYS	5.4
1	A	961	ASN	5.4
1	B	271	LYS	5.4
1	B	652	PHE	5.4
1	B	947	LEU	5.4
1	A	957	ASP	5.4
1	B	710	LEU	5.4
1	B	721	LEU	5.3
1	B	711	VAL	5.3
1	B	883	GLY	5.3
1	B	587	SER	5.3
1	B	871	GLY	5.3
1	A	249	SER	5.2
1	B	712	PRO	5.2
1	A	646	ALA	5.2
1	B	872	GLY	5.2
1	B	268	SER	5.2
1	B	873	THR	5.2
1	B	948	TYR	5.2
1	B	719	ILE	5.2

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Mol	Chain	Res	Type	RSRZ
1	B	917	MET	5.1
1	A	852	SER	5.1
1	A	855	THR	5.1
1	A	569	VAL	5.1
1	A	1033	PHE	5.1
1	B	634	LEU	5.0
1	B	709	ILE	5.0
1	B	875	VAL	5.0
1	A	652	PHE	5.0
1	B	594	PHE	5.0
1	B	580	THR	5.0
1	B	877	ILE	5.0
1	B	869	ARG	5.0
1	B	272	GLU	4.9
1	B	571	GLN	4.9
1	B	582	ASN	4.9
1	B	767	SER	4.9
1	B	801	TYR	4.9
1	A	960	PRO	4.9
1	A	458	ARG	4.9
1	A	922	PRO	4.9
1	A	1026	ARG	4.9
1	B	613	SER	4.9
1	B	868	PRO	4.9
1	A	410	ALA	4.8
1	A	589	GLY	4.8
1	A	747	GLN	4.8
1	A	920	ALA	4.8
1	A	879	GLY	4.8
1	B	898	VAL	4.8
1	A	958	LEU	4.8
1	A	984	VAL	4.8
1	B	270	THR	4.8
1	A	956	ALA	4.8
1	B	950	PHE	4.8
1	A	437	TYR	4.8
1	A	678	HIS	4.8
1	B	413	GLY	4.7
1	A	810	CYS	4.7
1	A	951	MET	4.7
1	A	963	GLY	4.7
1	B	619	VAL	4.7

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Mol	Chain	Res	Type	RSRZ
1	A	868	PRO	4.7
1	A	898	VAL	4.7
1	A	508	SER	4.7
1	A	1036	VAL	4.7
1	B	558	VAL	4.7
1	A	962	ARG	4.7
1	A	814	LEU	4.7
1	A	973	ILE	4.7
1	B	766	TYR	4.6
1	A	1016	MET	4.6
1	B	864	PRO	4.6
1	A	989	GLY	4.6
1	B	802	LYS	4.6
1	A	980	ALA	4.6
1	A	977	ASN	4.6
1	A	526	CYS	4.6
1	A	530	VAL	4.6
1	B	774	ASN	4.6
1	B	882	LEU	4.6
1	A	1022	VAL	4.6
1	A	803	CYS	4.5
1	B	927	GLY	4.5
1	B	614	PRO	4.5
1	A	251	ASN	4.5
1	B	800	LEU	4.5
1	A	897	GLY	4.5
1	B	707	ASP	4.5
1	B	567	ILE	4.5
1	B	161	GLY	4.5
1	A	950	PHE	4.5
1	B	775	ASN	4.5
1	B	752	LEU	4.5
1	A	676	TYR	4.5
1	A	910	ALA	4.5
1	A	836	HIS	4.5
1	B	525	HIS	4.4
1	B	588	ALA	4.4
1	B	899	GLU	4.4
1	A	521	SER	4.4
1	A	640	GLU	4.4
1	B	782	VAL	4.4
1	B	897	GLY	4.4

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Mol	Chain	Res	Type	RSRZ
1	B	524	PRO	4.4
1	A	591	ASN	4.4
1	B	695	LYS	4.3
1	A	619	VAL	4.3
1	B	776	LEU	4.3
1	B	620	PRO	4.3
1	A	592	CYS	4.3
1	A	987	MET	4.3
1	B	635	GLN	4.3
1	B	902	PRO	4.3
1	A	880	GLU	4.3
1	B	718	PRO	4.3
1	B	916	GLU	4.3
1	A	862	ILE	4.3
1	B	717	LYS	4.3
1	B	874	LYS	4.3
1	B	892	HIS	4.2
1	A	695	LYS	4.2
1	A	948	TYR	4.2
1	A	239	PHE	4.2
1	A	636	LEU	4.2
1	A	924	GLN	4.2
1	B	798	VAL	4.2
1	A	613	SER	4.2
1	A	409	ASN	4.2
1	A	767	SER	4.2
1	A	602	GLY	4.2
1	A	261	GLU	4.2
1	B	473	GLN	4.2
1	B	593	THR	4.2
1	B	761	CYS	4.2
1	A	442	HIS	4.2
1	A	895	VAL	4.2
1	A	893	VAL	4.2
1	A	815	LYS	4.2
1	B	207	SER	4.2
1	A	1034	GLN	4.1
1	B	599	GLU	4.1
1	B	747	GLN	4.1
1	B	694	VAL	4.1
1	A	263	VAL	4.1
1	A	411	PRO	4.1

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Mol	Chain	Res	Type	RSRZ
1	B	609	ILE	4.1
1	B	895	VAL	4.1
1	A	877	ILE	4.1
1	B	267	GLY	4.1
1	A	672	HIS	4.1
1	A	808	GLU	4.0
1	A	954	THR	4.0
1	A	1025	ALA	4.0
1	A	971	VAL	4.0
1	B	642	GLY	4.0
1	B	727	PRO	4.0
1	B	760	GLN	4.0
1	B	639	LYS	4.0
1	B	842	SER	4.0
1	A	446	PHE	4.0
1	B	621	ARG	4.0
1	A	190	GLY	4.0
1	A	527	GLY	4.0
1	B	708	LYS	4.0
1	A	522	GLY	4.0
1	B	843	ARG	4.0
1	A	923	SER	4.0
1	B	846	GLU	4.0
1	A	913	ILE	4.0
1	B	547	PRO	4.0
1	B	713	VAL	4.0
1	B	531	LEU	4.0
1	B	736	TYR	4.0
1	B	762	GLN	3.9
1	B	790	ILE	3.9
1	A	884	LEU	3.9
1	B	546	GLU	3.9
1	A	509	CYS	3.9
1	A	691	GLU	3.9
1	A	456	LYS	3.9
1	A	931	ILE	3.9
1	B	750	PRO	3.9
1	A	266	PRO	3.9
1	B	820	PHE	3.9
1	A	926	ALA	3.9
1	A	919	GLU	3.9
1	A	611	CYS	3.9

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Mol	Chain	Res	Type	RSRZ
1	A	578	LEU	3.9
1	B	411	PRO	3.9
1	A	859	ILE	3.9
1	A	892	HIS	3.9
1	B	777	PRO	3.9
1	A	586	LEU	3.9
1	A	675	LYS	3.9
1	A	864	PRO	3.9
1	B	570	SER	3.9
1	A	248	SER	3.9
1	A	537	ARG	3.8
1	B	618	GLU	3.8
1	A	650	PHE	3.8
1	B	889	ILE	3.8
1	A	412	LEU	3.8
1	A	495	ILE	3.8
1	A	391	PRO	3.8
1	A	728	GLN	3.8
1	A	1004	ILE	3.8
1	B	549	ARG	3.8
1	B	848	SER	3.8
1	B	643	MET	3.8
1	A	970	GLN	3.8
1	B	949	TYR	3.8
1	A	929	VAL	3.8
1	B	566	ASN	3.7
1	A	623	ILE	3.7
1	B	796	ASN	3.7
1	B	915	CYS	3.7
1	A	969	THR	3.7
1	A	262	MET	3.7
1	A	1003	ILE	3.7
1	A	330	ASP	3.7
1	A	869	ARG	3.7
1	A	911	GLU	3.7
1	A	983	ASN	3.7
1	A	444	LEU	3.7
1	A	622	ILE	3.7
1	A	473	GLN	3.7
1	B	598	SER	3.6
1	B	931	ILE	3.6
1	A	562	VAL	3.6

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Mol	Chain	Res	Type	RSRZ
1	A	407	ASP	3.6
1	A	997	ARG	3.6
1	A	843	ARG	3.6
1	B	799	TYR	3.6
1	B	552	SER	3.6
1	B	543	ARG	3.6
1	A	174	SER	3.6
1	A	439	TYR	3.6
1	A	536	THR	3.6
1	A	654	ASN	3.6
1	A	443	SER	3.6
1	A	638	SER	3.5
1	A	809	SER	3.5
1	A	949	TYR	3.5
1	A	153	HIS	3.5
1	A	628	ASP	3.5
1	A	693	ARG	3.5
1	A	189	ASP	3.5
1	B	738	CYS	3.5
1	A	804	GLY	3.5
1	B	578	LEU	3.5
1	B	900	CYS	3.5
1	B	602	GLY	3.5
1	A	985	VAL	3.4
1	A	730	GLN	3.4
1	B	273	GLN	3.4
1	B	572	TYR	3.4
1	A	558	VAL	3.4
1	B	293	VAL	3.4
1	A	847	LEU	3.4
1	A	1012	GLU	3.4
1	B	751	ALA	3.4
1	A	766	TYR	3.4
1	A	92	PRO	3.4
1	B	576	LEU	3.4
1	A	587	SER	3.4
1	B	865	VAL	3.4
1	A	1035	TYR	3.4
1	B	859	ILE	3.4
1	B	675	LYS	3.3
1	B	773	ILE	3.3
1	A	1015	ASP	3.3

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Mol	Chain	Res	Type	RSRZ
1	A	93	LYS	3.3
1	B	781	THR	3.3
1	B	706	VAL	3.3
1	A	964	PRO	3.3
1	B	149	GLY	3.3
1	A	620	PRO	3.3
1	B	890	ALA	3.3
1	A	609	ILE	3.3
1	A	520	GLY	3.3
1	A	1014	LEU	3.3
1	B	740	LEU	3.3
1	B	768	TYR	3.3
1	B	867	GLY	3.3
1	B	780	LEU	3.3
1	A	972	THR	3.3
1	A	830	GLN	3.2
1	A	930	GLU	3.2
1	B	845	LEU	3.2
1	A	677	ARG	3.2
1	A	624	THR	3.2
1	A	921	LYS	3.2
1	B	789	ASN	3.2
1	B	676	TYR	3.2
1	A	998	ARG	3.2
1	B	901	SER	3.2
1	A	504	VAL	3.2
1	A	896	ALA	3.2
1	B	439	TYR	3.2
1	B	183	PHE	3.2
1	B	632	VAL	3.2
1	B	929	VAL	3.2
1	B	822	CYS	3.2
1	A	816	ALA	3.2
1	A	614	PRO	3.2
1	B	126	LEU	3.1
1	B	601	ASP	3.1
1	B	778	VAL	3.1
1	A	866	THR	3.1
1	B	891	SER	3.1
1	B	162	VAL	3.1
1	B	836	HIS	3.1
1	A	408	MET	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	630	HIS	3.1
1	A	995	PHE	3.1
1	A	484	MET	3.1
1	A	996	HIS	3.1
1	A	535	CYS	3.1
1	A	990	SER	3.1
1	B	163	ASN	3.1
1	A	567	ILE	3.1
1	B	140	LEU	3.1
1	B	600	MET	3.1
1	B	219	ASP	3.1
1	B	759	VAL	3.1
1	A	576	LEU	3.1
1	A	981	GLY	3.1
1	A	483	ASP	3.1
1	A	188	VAL	3.1
1	A	413	GLY	3.1
1	A	627	GLY	3.1
1	A	631	VAL	3.1
1	B	821	GLU	3.0
1	A	39	PHE	3.0
1	A	568	SER	3.0
1	B	569	VAL	3.0
1	B	64	LEU	3.0
1	A	75	SER	3.0
1	A	552	SER	3.0
1	A	807	ARG	3.0
1	A	459	VAL	3.0
1	A	679	VAL	3.0
1	A	979	ASN	3.0
1	A	494	TYR	3.0
1	A	528	TRP	3.0
1	A	531	LEU	3.0
1	A	637	LYS	3.0
1	B	292	TYR	3.0
1	B	817	ASP	3.0
1	A	594	PHE	3.0
1	B	506	VAL	3.0
1	B	574	VAL	3.0
1	A	584	PRO	3.0
1	B	573	ASN	3.0
1	A	1007	THR	3.0

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Mol	Chain	Res	Type	RSRZ
1	B	139	LEU	3.0
1	A	45	GLU	3.0
1	A	812	LEU	3.0
1	B	797	LYS	3.0
1	A	822	CYS	2.9
1	B	597	LEU	2.9
1	B	610	GLN	2.9
1	A	463	LYS	2.9
1	A	959	LYS	2.9
1	A	246	GLY	2.9
1	A	867	GLY	2.9
1	B	810	CYS	2.9
1	A	681	THR	2.9
1	A	644	THR	2.9
1	B	611	CYS	2.9
1	B	815	LYS	2.9
1	B	446	PHE	2.9
1	A	870	GLU	2.9
1	A	978	LEU	2.9
1	A	925	HIS	2.9
1	B	905	ASP	2.9
1	A	782	VAL	2.9
1	A	832	THR	2.9
1	B	722	LYS	2.9
1	B	816	ALA	2.9
1	B	866	THR	2.9
1	A	671	CYS	2.9
1	B	128	ALA	2.8
1	B	595	GLU	2.8
1	A	210	ASP	2.8
1	B	806	MET	2.8
1	B	913	ILE	2.8
1	A	91	ASN	2.8
1	B	763	ASN	2.8
1	A	769	GLU	2.8
1	A	515	CYS	2.8
1	A	909	PRO	2.8
1	B	764	THR	2.8
1	B	138	LYS	2.8
1	A	570	SER	2.8
1	B	903	LEU	2.8
1	B	125	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	860	THR	2.8
1	A	260	PRO	2.8
1	B	703	LEU	2.8
1	A	772	GLU	2.8
1	A	656	SER	2.8
1	A	917	MET	2.8
1	A	465	ASN	2.7
1	A	534	THR	2.7
1	B	951	MET	2.7
1	A	532	HIS	2.7
1	A	241	ILE	2.7
1	B	181	LYS	2.7
1	B	564	PRO	2.7
1	A	876	THR	2.7
1	B	542	GLU	2.7
1	A	105	GLU	2.7
1	A	106	PRO	2.7
1	A	511	GLN	2.7
1	B	807	ARG	2.7
1	A	689	PHE	2.7
1	A	744	GLY	2.7
1	A	789	ASN	2.7
1	A	1005	CYS	2.7
1	A	721	LEU	2.7
1	A	670	ARG	2.7
1	A	551	ALA	2.7
1	B	888	ASP	2.7
1	B	603	LEU	2.7
1	A	533	ASN	2.6
1	B	826	GLN	2.6
1	A	471	THR	2.6
1	A	493	LEU	2.6
1	A	529	CYS	2.6
1	B	715	VAL	2.6
1	A	38	SER	2.6
1	A	445	ALA	2.6
1	A	571	GLN	2.6
1	A	745	ILE	2.6
1	A	403	PHE	2.6
1	A	933	VAL	2.6
1	A	865	VAL	2.6
1	A	736	TYR	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	763	ASN	2.6
1	A	170	GLY	2.6
1	A	690	GLN	2.6
1	B	523	ASP	2.6
1	B	560	LEU	2.6
1	A	384	TRP	2.6
1	B	896	ALA	2.6
1	B	944	SER	2.6
1	B	630	HIS	2.6
1	A	264	SER	2.6
1	A	682	HIS	2.6
1	B	805	ALA	2.5
1	B	893	VAL	2.5
1	A	629	HIS	2.5
1	B	551	ALA	2.5
1	B	173	VAL	2.5
1	B	749	VAL	2.5
1	B	625	GLU	2.5
1	B	203	LEU	2.5
1	A	440	LYS	2.5
1	A	538	LYS	2.5
1	A	436	ALA	2.5
1	A	607	ASN	2.5
1	A	863	ILE	2.5
1	B	400	ASP	2.5
1	A	99	ILE	2.5
1	B	863	ILE	2.5
1	B	581	TYR	2.5
1	A	861	GLU	2.5
1	B	701	PRO	2.5
1	B	693	ARG	2.5
1	B	127	ILE	2.5
1	A	813	CYS	2.5
1	A	991	GLN	2.5
1	B	861	GLU	2.5
1	B	71	TYR	2.5
1	A	172	ILE	2.5
1	B	284	LYS	2.5
1	B	946	GLN	2.5
1	B	818	PRO	2.4
1	B	933	VAL	2.4
1	B	641	THR	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	518	CYS	2.4
1	A	781	THR	2.4
1	B	704	LEU	2.4
1	A	673	TRP	2.4
1	A	905	ASP	2.4
1	A	1013	VAL	2.4
1	A	265	PRO	2.4
1	A	312	ALA	2.4
1	A	588	ALA	2.4
1	B	904	VAL	2.4
1	A	820	PHE	2.4
1	B	431	MET	2.4
1	B	647	SER	2.4
1	B	146	PHE	2.4
1	B	633	GLN	2.4
1	A	621	ARG	2.4
1	A	237	PRO	2.4
1	B	151	PRO	2.4
1	A	819	ASP	2.4
1	A	918	GLY	2.4
1	B	876	THR	2.4
1	A	228	ILE	2.4
1	A	486	PHE	2.4
1	A	947	LEU	2.4
1	B	120	ASP	2.4
1	A	889	ILE	2.4
1	B	150	GLU	2.4
1	B	930	GLU	2.4
1	A	332	ASP	2.4
1	A	315	SER	2.4
1	B	830	GLN	2.4
1	A	604	VAL	2.3
1	B	612	TYR	2.3
1	A	333	LEU	2.3
1	B	182	LEU	2.3
1	B	345	LYS	2.3
1	B	742	ILE	2.3
1	A	583	VAL	2.3
1	A	902	PRO	2.3
1	A	856	ASN	2.3
1	A	857	PRO	2.3
1	A	610	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	175	TYR	2.3
1	A	858	ARG	2.3
1	A	894	LYS	2.3
1	A	560	LEU	2.3
1	A	435	ILE	2.3
1	B	579	GLU	2.3
1	B	83	HIS	2.3
1	B	160	SER	2.3
1	A	878	ARG	2.3
1	A	171	VAL	2.3
1	A	738	CYS	2.3
1	A	194	TYR	2.3
1	B	556	GLN	2.3
1	A	701	PRO	2.3
1	A	903	LEU	2.3
1	A	235	VAL	2.3
1	B	881	ASN	2.3
1	B	369	ARG	2.3
1	A	317	ALA	2.2
1	B	648	THR	2.2
1	A	790	ILE	2.2
1	B	172	ILE	2.2
1	A	460	ASP	2.2
1	B	730	GLN	2.2
1	B	250	GLY	2.2
1	B	522	GLY	2.2
1	B	617	LYS	2.2
1	A	447	VAL	2.2
1	B	193	GLU	2.2
1	B	653	TYR	2.2
1	A	720	THR	2.2
1	A	64	LEU	2.2
1	A	768	TYR	2.2
1	A	513	ARG	2.2
1	B	256	LEU	2.2
1	A	490	HIS	2.2
1	B	771	MET	2.2
1	A	151	PRO	2.2
1	A	173	VAL	2.2
1	B	141	ARG	2.2
1	B	257	THR	2.2
1	A	828	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	841	GLU	2.2
1	B	312	ALA	2.2
1	B	811	GLY	2.2
1	B	651	VAL	2.2
1	A	514	SER	2.2
1	B	444	LEU	2.2
1	A	729	PRO	2.2
1	B	772	GLU	2.2
1	B	914	VAL	2.2
1	A	1010	SER	2.2
1	A	719	ILE	2.2
1	B	511	GLN	2.2
1	A	441	ASN	2.2
1	B	670	ARG	2.1
1	B	832	THR	2.1
1	A	519	LEU	2.1
1	A	651	VAL	2.1
1	B	631	VAL	2.1
1	B	240	ASP	2.1
1	B	857	PRO	2.1
1	A	398	THR	2.1
1	A	580	THR	2.1
1	B	894	LYS	2.1
1	B	697	PRO	2.1
1	B	791	ASP	2.1
1	B	624	THR	2.1
1	B	596	ASP	2.1
1	A	335	PHE	2.1
1	A	805	ALA	2.1
1	A	219	ASP	2.1
1	A	817	ASP	2.1
1	A	388	LYS	2.1
1	B	294	GLU	2.1
1	A	344	ARG	2.1
1	A	434	VAL	2.1
1	B	702	GLN	2.1
1	B	147	LYS	2.1
1	A	837	CYS	2.1
1	A	464	GLY	2.1
1	B	403	PHE	2.1
1	B	841	GLU	2.1
1	A	468	GLN	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	974	THR	2.1
1	B	831	CYS	2.1
1	A	197	THR	2.1
1	B	692	GLY	2.1
1	A	561	THR	2.0
1	A	632	VAL	2.0
1	A	753	ARG	2.0
1	B	228	ILE	2.0
1	B	615	ALA	2.0
1	B	649	SER	2.0
1	B	804	GLY	2.0
1	A	392	CYS	2.0
1	A	818	PRO	2.0
1	B	220	GLU	2.0
1	A	401	ASP	2.0
1	A	944	SER	2.0
1	A	516	GLY	2.0
1	A	641	THR	2.0
1	B	575	LEU	2.0
1	A	342	GLN	2.0
1	B	623	ILE	2.0
1	B	691	GLU	2.0
1	A	565	ASN	2.0
1	B	672	HIS	2.0
1	A	406	LEU	2.0

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

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

There are no ligands in this entry.

6.5 Other polymers

There are no such residues in this entry.