



Full wwPDB X-ray Structure Validation Report i

Jun 22, 2024 – 05:59 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.; Kauffman, 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
<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>
with specific help available everywhere you see the i symbol.

The types of validation reports are described at
<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see references ①) were used in the production of this report:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.37.1
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.37.1

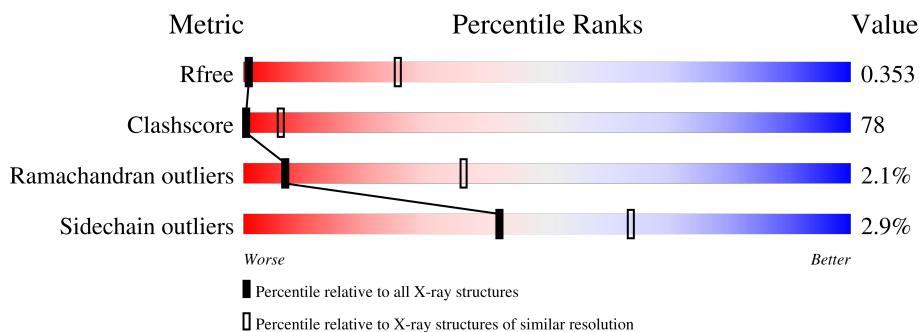
1 Overall quality at a glance

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}	130704	1005 (11.50-3.90)
Clashscore	141614	1070 (11.50-3.90)
Ramachandran outliers	138981	1003 (11.50-3.90)
Sidechain outliers	138945	1003 (11.50-3.86)

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

Mol	Chain	Length	Quality of chain			
1	A	1207	27%	52%	•	17%
1	B	1207	25%	47%	•	24%

2 Entry composition (i)

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 7841	N 4938	O 1356	S 1482	65	0	0
1	B	915	Total	C 7189	N 4533	O 1239	S 1357	60	0	0

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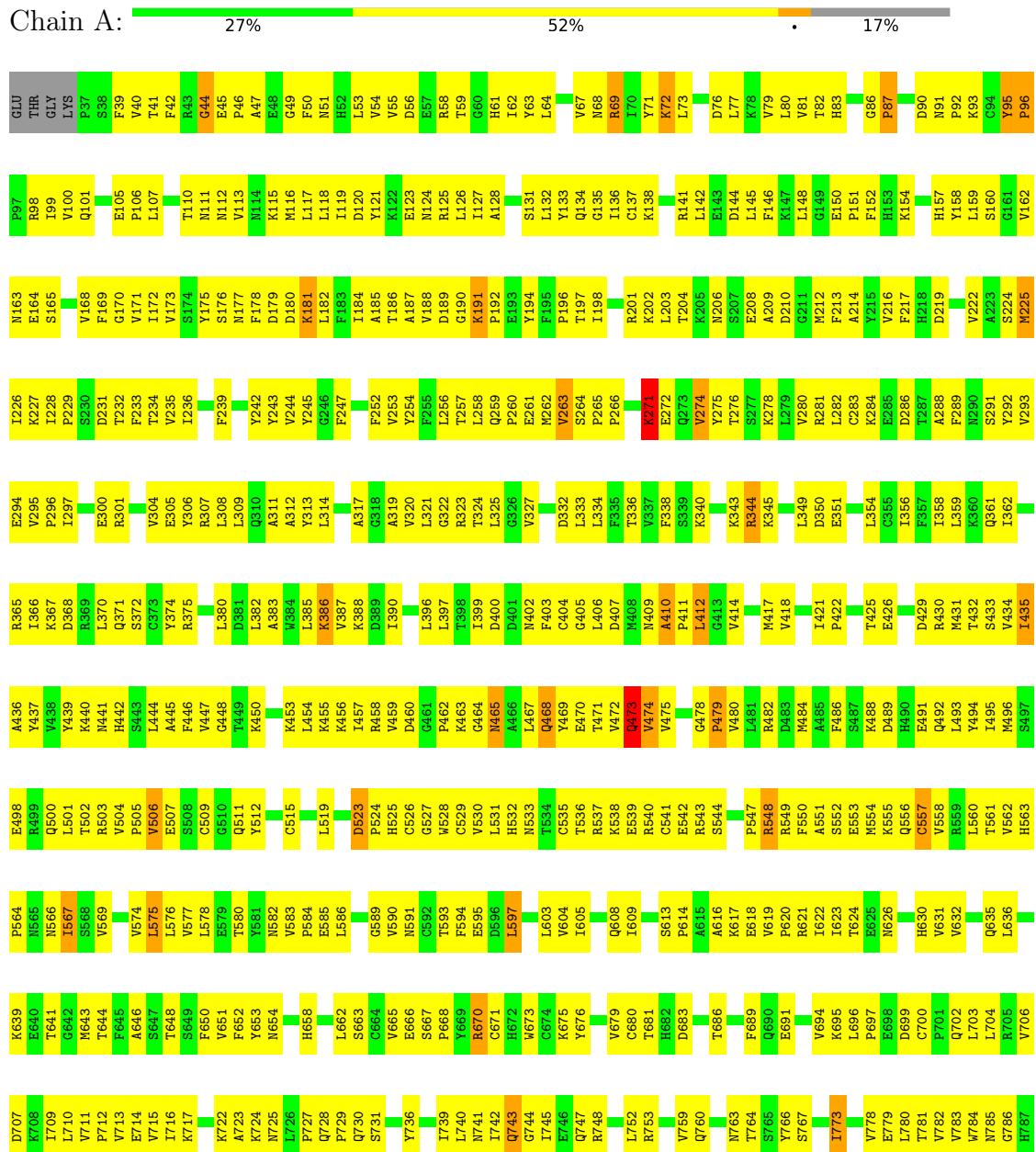
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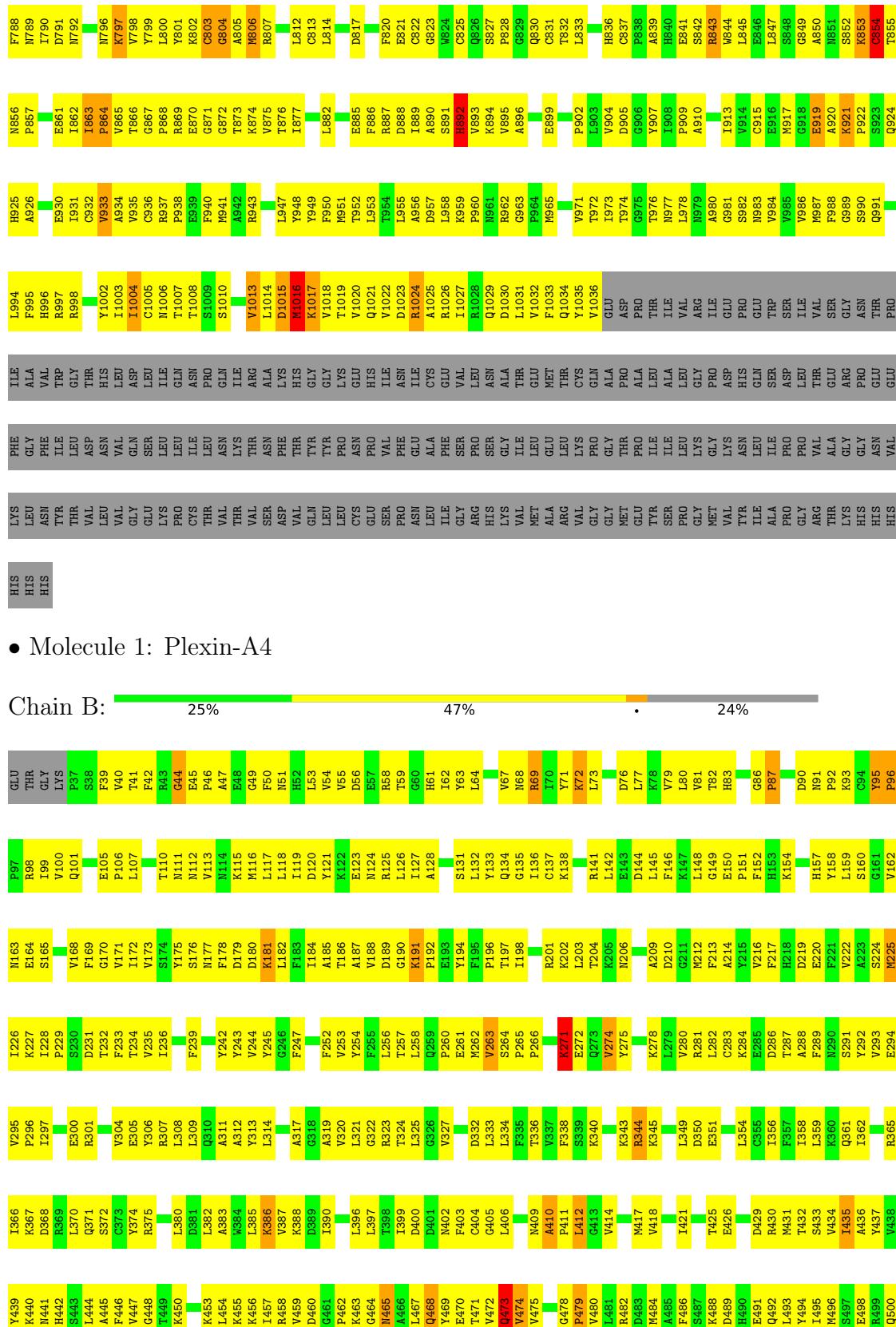
Chain	Residue	Modelled	Actual	Comment	Reference
B	1239	HIS	-	expression tag	UNP Q80UG2

3 Residue-property plots [i](#)

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

- Molecule 1: Plexin-A4





• Molecule 1: Plexin-A4

Chain B: 25% • 47% • 24%

PRO	VAL	F788	W706	L501
	GLU	W789	D707	T502
	MET	T789	I707	R503
	PHE	I790	V604	V505
	GLY	I791		
GLY	LEU	N792	I709	S563
VAL	VAL	N792	T644	V569
THR	SER	T791	T645	V569
ALA	ILE		A646	V506
ALA	ASP		P712	B507
PRO	GLY		S647	V508
	VAL		W713	I575
ARG	GLU		T714	S576
ALA	GLY		S649	C579
GLY	PRO		V715	V576
HIS	ASN		P650	V577
GLY	GLU		V716	Q578
HIS	ASN		T651	Q511
HIS	VAL		T652	E579
HIS	LYS		V653	Y512
HIS	LEU		K722	G515
HIS	ASP		N654	
HIS	TYR			
HIS	ILE			
HIS	GLY			
HIS	VAL			
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4 Data and refinement statistics i

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 1.8.2_1309	Depositor
R , R_{free}	0.349 , 0.349 0.348 , 0.353	Depositor DCC
R_{free} test set	488 reflections (4.85%)	wwPDB-VP
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 , 550.8	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 i

5.1 Standard geometry i

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	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 [\(i\)](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7841	0	7710	1244	34
1	B	7189	0	7050	1075	67
All	All	15030	0	14760	2319	69

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:A:868:PRO:HD3	1:A:980:ALA:C	1.63	1.17
1:B:456:LYS:HD2	1:B:523:ASP:OD2	1.44	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:118:LEU:HD12	1:A:172:ILE:HD12	1.17	1.12
1:A:458:ARG:HD2	1:A:524:PRO:HB3	1.31	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:435:ILE:HG22	1:B:446:PHE:HB2	1.22	1.11
1:B:809:SER:HB2	1:B:881:ASN:OD1	0.95	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:A:1017:LYS:H	1:A:1017:LYS:HE2	1.18	1.08
1:B:444:LEU:HD23	1:B:524:PRO:CG	1.83	1.08
1:B:676:TYR:CE1	1:B:730:GLN:CG	2.37	1.08
1:A:474:VAL:HG12	1:A:475:VAL:HG23	1.33	1.08
1:A:868:PRO:HD2	1:A:981:GLY:HA2	1.17	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:301:ARG:HD2	1:B:425:THR:HG21	1.37	1.03
1:B:494:TYR:HB3	1:B:501:LEU:HD21	1.40	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:620:PRO:HA	1:A:623:ILE:HG13	1.41	1.01
1:A:871:GLY:O	1:A:1023:ASP:CG	1.98	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:868:PRO:HD2	1:A:981:GLY:HA3	1.16	0.94
1:A:870:GLU:OE2	1:A:1025:ALA:HB2	1.65	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:95:TYR:CD2	1:A:96:PRO:HD3	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:532:HIS:HA	1:A:641:THR:OG1	1.73	0.87
1:A:892:HIS:HB2	1:A:932:CYS:O	1.73	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: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:A:971:VAL:HG22	1:A:1005:CYS:O	1.78	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:42:PHE:CE1	1:A:79:VAL:HG22	2.14	0.83
1:A:397:LEU:HD23	1:A:399:ILE:HD13	1.61	0.83
1:A:847:LEU:HD11	1:A:850:ALA:HA	1.58	0.83
1:A:996:HIS:HB3	1:A:1004:ILE:HG23	1.59	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:440:LYS:CD	1:A:538:LYS:HD3	2.08	0.82
1:A:474:VAL:HG22	1:A:495:ILE:HG21	1.61	0.82
1:B:53:LEU:HD23	1:B:54:VAL:N	1.94	0.82
1:B:397:LEU:HD23	1:B:399:ILE:HD13	1.61	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:50:PHE:HB2	1:A:498:GLU:O	1.78	0.82
1:A:295:VAL:HA	1:A:414:VAL:HG22	1.60	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: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:882:LEU:HB2	1:B:910:ALA:HA	1.58	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:239:PHE:CE1	1:A:260:PRO:HD2	2.17	0.79
1:A:244:VAL:HG13	1:A:482:ARG:NH1	1.98	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:44:GLY:HA2	1:B:50:PHE:HE2	1.44	0.79
1:B:319:ALA:H	1:B:441:ASN:HD22	1.31	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:HD12	1:A:994:LEU:O	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:O	1:A:710:LEU:HD12	1.84	0.77
1:A:284:LYS:O	1:A:284:LYS:HD3	1.84	0.77
1:B:51:ASN:HD21	1:B:67:VAL:HG23	1.50	0.77
1:B:168:VAL:HG23	1:B:185:ALA:O	1.84	0.77
1:A:327:VAL:CG1	1:A:358:ILE:HD11	2.14	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: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:HD12	1:B:710:LEU:O	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:HD12	1:B:780:LEU:O	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:64:LEU:HD12	1:B:496:MET:CE	2.16	0.76
1:B:460:ASP:HB3	1:B:464:GLY:N	2.00	0.76
1:A:873:THR:OG1	1:A:981:GLY:CA	2.34	0.76
1:A:42:PHE:HZ	1:A:45:GLU:HB2	1.50	0.75
1:A:256:LEU:CB	1:A:309:LEU:HD22	2.16	0.75
1:A:869:ARG:O	1:A:920:ALA:HB3	1.86	0.75
1:A:1010:SER:HB2	1:A:1035:TYR:CE2	2.20	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:64:LEU:HD12	1:A:496:MET:CE	2.16	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: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:42:PHE:HZ	1:B:45:GLU:HB2	1.50	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: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:46:PRO:HG2	1:B:69:ARG:CG	2.17	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: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:46:PRO:HG2	1:A:69:ARG:CG	2.17	0.72
1:A:670:ARG:HA	1:A:670:ARG:HE	1.54	0.72
1:B:184:ILE:O	1:B:184:ILE:HD12	1.89	0.72
1:A:181:LYS:HZ3	1:A:216:VAL:HG23	1.54	0.72
1:A:1030:ASP:O	1:A:1032:VAL:HG23	1.89	0.72
1:A:73:LEU:HD22	1:A:79:VAL:HA	1.72	0.72
1:A:184:ILE:HD12	1:A:184:ILE:O	1.89	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:321:LEU:HG	1:A:325:LEU:CD1	2.20	0.71
1:A:1017:LYS:H	1:A:1017:LYS:CE	2.01	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:40:VAL:HG12	1:A:503:ARG:HB3	1.73	0.71
1:A:304:VAL:HG11	1:A:351:GLU:OE2	1.91	0.71
1:A:1016:MET:O	1:A:1032:VAL:HG13	1.91	0.71
1:B:450:LYS:HA	1:B:479:PRO:HB3	1.73	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:A:1004:ILE:HD13	1:A:1005:CYS:N	2.06	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:72:LYS:HE3	1:B:80:LEU:CD1	2.21	0.70
1:B:154:LYS:H	1:B:157:HIS:HD2	1.36	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:446:PHE:HZ	1:A:506:VAL:HG23	1.55	0.70
1:A:480:VAL:HB	1:A:484:MET:CE	2.21	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:181:LYS:HD2	1:A:202:LYS:HA	1.71	0.70
1:A:1016:MET:HE3	1:A:1017:LYS:C	2.12	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:450:LYS:HA	1:A:479:PRO:HB3	1.73	0.69
1:A:474:VAL:CG1	1:A:475:VAL:HG23	2.18	0.69
1:A:551:ALA:HA	1:A:556:GLN:OE1	1.92	0.69
1:B:73:LEU:HD22	1:B:79:VAL:HA	1.72	0.69
1:B:558:VAL:HG11	1:B:646:ALA:HB2	1.71	0.69
1:A:72:LYS:HE3	1:A:80:LEU:CD1	2.22	0.69
1:A:739:ILE:HB	1:A:781:THR:CG2	2.22	0.69
1:B:63:TYR:C	1:B:64:LEU:HD22	2.12	0.69
1:B:110:THR:HG22	1:B:132:LEU:HD21	1.73	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:216:VAL:HG12	1:A:224:SER:OG	1.92	0.69
1:A:380:LEU:HB2	1:A:386:LYS:HE3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:1016:MET:HG2	1:A:1035:TYR:HE2	1.57	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:CD2	1:A:136:ILE:HG12	2.28	0.69
1:A:133:TYR:HB2	1:A:136:ILE:HG12	1.75	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:HD13	1:B:412:LEU:H	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:40:VAL:HG11	1:A:503:ARG:NE	2.09	0.68
1:A:190:GLY:HA2	1:A:233:PHE:CE2	2.29	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:98:ARG:HE	1:B:107:LEU:CD1	2.07	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:A:73:LEU:CD2	1:A:79:VAL:HA	2.23	0.68
1:A:575:LEU:HD22	1:A:575:LEU:H	1.56	0.68
1:B:62:ILE:HG13	1:B:62:ILE:O	1.94	0.68
1:B:62:ILE:HD11	1:B:73:LEU:HD12	1.76	0.68
1:B:323:ARG:HG3	1:B:324:THR:H	1.58	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:532:HIS:O	1:A:641:THR:HG21	1.94	0.67
1:A:1013:VAL:HG22	1:A:1014:LEU:H	1.60	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:863:ILE:HG23	1:A:864:PRO:CD	2.23	0.67
1:A:994:LEU:CD1	1:A:1006:ASN:HD22	2.07	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: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: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:98:ARG:HE	1:A:107:LEU:CD1	2.07	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: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:40:VAL:HG11	1:B:503:ARG:NE	2.09	0.66
1:B:98:ARG:HH21	1:B:107:LEU:HD12	1.60	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:809:SER:CB	1:B:881:ASN:CG	2.47	0.66
1:B:854:CYS:C	1:B:855:THR:N	2.49	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:137:CYS:HB2	1:B:213:PHE:CZ	2.30	0.66
1:B:181:LYS:HD3	1:B:202:LYS:HA	1.78	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:892:HIS:NE2	1:A:931:ILE:HB	2.11	0.66
1:A:1016:MET:CE	1:A:1033:PHE:HB3	2.25	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:797:LYS:N	1:A:797:LYS:HD2	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:870:GLU:CB	1:A:1024:ARG:HG3	2.17	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:62:ILE:HG13	1:A:62:ILE:O	1.94	0.65
1:A:133:TYR:HB2	1:A:136:ILE:H	1.61	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:807:ARG:HD3	1:A:812:LEU:C	2.18	0.65
1:A:872:GLY:HA3	1:A:1023:ASP:OD1	1.97	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:53:LEU:HB2	1:B:496:MET:CE	2.28	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:567:ILE:HD13	1:B:651:VAL:O	1.96	0.64
1:A:53:LEU:HB2	1:A:496:MET:CE	2.28	0.64
1:A:53:LEU:HG	1:A:64:LEU:CD1	2.28	0.64
1:A:186:THR:HG22	1:A:187:ALA:N	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:620:PRO:CA	1:A:623:ILE:HG13	2.23	0.64
1:B:797:LYS:HD2	1:B:797:LYS:N	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:53:LEU:HG	1:B:64:LEU:CD1	2.28	0.64
1:B:118:LEU:HG	1:B:172:ILE:HG13	1.80	0.64
1:B:154:LYS:H	1:B:157:HIS:CD2	2.15	0.64
1:B:309:LEU:HD11	1:B:311:ALA:O	1.98	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: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
1:A:978:LEU:O	1:A:998:ARG:HD2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1002:TYR:CZ	1:A:1004:ILE:HB	2.32	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:41:THR:HG22	1:B:502:THR:HA	1.81	0.63
1:B:386:LYS:HG3	1:B:386:LYS:O	1.99	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: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:1014:LEU:HD22	1:A:1014:LEU:N	2.14	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:HD22	1:B:575:LEU:N	2.14	0.63
1:A:197:THR:HG21	1:A:228:ILE:HD11	1.81	0.62
1:A:1015:ASP:O	1:A:1016:MET:HB3	1.98	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:439:TYR:OH	1:A:538:LYS:CE	2.47	0.62
1:A:492:GLN:HG2	1:A:503:ARG:CG	2.29	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:72:LYS:CD	1:A:80:LEU:HD12	2.30	0.61
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: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: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:A:1016:MET:HE2	1:A:1033:PHE:HB3	1.82	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:474:VAL:CG2	1:A:495:ILE:HD13	2.29	0.61
1:A:480:VAL:HG11	1:A:495:ILE:HD11	1.81	0.61
1:A:488:LYS:HG3	1:A:489:ASP:N	2.14	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:41:THR:HG22	1:B:502:THR:HG23	1.83	0.61
1:B:410:ALA:HB1	1:B:411:PRO:CD	2.30	0.61
1:A:257:THR:C	1:A:258:LEU:HD12	2.21	0.61
1:A:696:LEU:HD12	1:A:696:LEU:N	2.15	0.61
1:B:46:PRO:HD2	1:B:71:TYR:CE1	2.35	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: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: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:A:870:GLU:CG	1:A:1025:ALA:N	2.64	0.60
1:B:95:TYR:CG	1:B:96:PRO:HD3	2.36	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:A:715:VAL:CG2	1:A:717:LYS:HD2	2.30	0.60
1:B:99:ILE:HG13	1:B:100:VAL:N	2.16	0.60
1:B:257:THR:C	1:B:258:LEU:HD12	2.21	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:46:PRO:HD2	1:A:71:TYR:CE1	2.35	0.60
1:A:333:LEU:CD2	1:A:358:ILE:HG13	2.31	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:62:ILE:HD13	1:A:77:LEU:CD2	2.32	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: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:72:LYS:CD	1:B:80:LEU:HD12	2.30	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:662:LEU:HD11	1:B:702:GLN:HE22	1.65	0.60
1:B:665:VAL:HG12	1:B:697:PRO:HG3	1.83	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:991:GLN:HG3	1:A:1008:THR:HG21	1.84	0.59
1:A:1002:TYR:CE2	1:A:1004:ILE:HB	2.37	0.59
1:B:154:LYS:N	1:B:157:HIS:HD2	2.00	0.59
1:A:95:TYR:CG	1:A:96:PRO:HD3	2.36	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: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:46:PRO:HD2	1:A:71:TYR:CZ	2.37	0.59
1:A:243:TYR:CD2	1:A:257:THR:HG22	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: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:987:MET:HB2	1:A:1019:THR:HG23	1.83	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:NE2	1:B:473:GLN:H	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:62:ILE:HG12	1:A:73:LEU:HB2	1.84	0.58
1:A:387:VAL:HG13	1:A:388:LYS:N	2.18	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:HD22	1:A:349:LEU:N	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:OE1	1:B:426:GLU:HA	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:NE2	1:A:473:GLN:H	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:HA	1:A:426:GLU:OE1	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:51:ASN:HD21	1:B:67:VAL:CG2	2.15	0.58
1:B:110:THR:HB	1:B:132:LEU:HD23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:196:PRO:HB3	1:B:225:MET:CE	2.33	0.58
1:B:759:VAL:HG12	1:B:760:GLN:N	2.18	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:A:1021:GLN:CG	1:A:1026:ARG:HG3	2.34	0.58
1:B:62:ILE:HD12	1:B:501:LEU:CD1	2.33	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: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:458:ARG:HD2	1:A:524:PRO:HG3	1.86	0.57
1:A:994:LEU:HG	1:A:1006:ASN:HB2	1.87	0.57
1:A:874:LYS:N	1:A:982:SER:CB	2.66	0.57
1:A:892:HIS:CE1	1:A:931:ILE:HB	2.40	0.57
1:A:1018:VAL:HG13	1:A:1018:VAL:O	2.04	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:O	1:A:262:MET:HG3	2.05	0.57
1:A:532:HIS:HA	1:A:641:THR:CB	2.35	0.57
1:A:51:ASN:HD21	1:A:67:VAL:CG2	2.15	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:832:THR:HG23	1:A:836:HIS:HB2	1.85	0.57
1:B:42:PHE:CE2	1:B:50:PHE:HZ	2.23	0.57
1:B:265:PRO:HD3	1:B:274:VAL:HG21	1.87	0.57
1:B:433:SER:HB3	1:B:484:MET:SD	2.45	0.57
1:A:45:GLU:HB3	1:A:46:PRO:CD	2.35	0.57
1:A:239:PHE:CA	1:A:260:PRO:HG2	2.30	0.57
1:A:459:VAL:HG23	1:A:459:VAL:O	2.05	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:HG3	1:B:262:MET:O	2.05	0.57
1:A:926:ALA:CB	1:A:947:LEU:HD12	2.35	0.56
1:A:1013:VAL:HG22	1:A:1014:LEU:N	2.19	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:A:882:LEU:HD12	1:A:882:LEU:N	2.21	0.56
1:B:41:THR:CG2	1:B:502:THR:HG23	2.36	0.56
1:B:53:LEU:HG	1:B:64:LEU:HD13	1.87	0.56
1:B:116:MET:HG3	1:B:117:LEU:N	2.20	0.56
1:B:882:LEU:N	1:B:882:LEU:HD12	2.21	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:45:GLU:HB3	1:B:46:PRO:CD	2.35	0.56
1:B:305:GLU:O	1:B:340:LYS:HG3	2.06	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:41:THR:CG2	1:A:502:THR:HG23	2.35	0.56
1:A:226:ILE:HG23	1:A:226:ILE:O	2.06	0.56
1:A:321:LEU:HD12	1:A:462:PRO:CG	2.34	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:HD13	1:B:567:ILE:N	2.20	0.56
1:B:569:VAL:HG21	1:B:654:ASN:HB2	1.87	0.56
1:A:42:PHE:HE2	1:A:50:PHE:HZ	1.54	0.56
1:A:118:LEU:HB3	1:A:127:ILE:CG2	2.36	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:983:ASN:O	1:A:1022:VAL:HG23	2.06	0.56
1:A:46:PRO:CG	1:A:69:ARG:HD2	2.36	0.56
1:A:53:LEU:HG	1:A:64:LEU:HD13	1.87	0.56
1:A:447:VAL:HG23	1:A:447:VAL:O	2.06	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: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:1022:VAL:O	1:A:1022:VAL:HG13	2.06	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:62:ILE:HG12	1:B:73:LEU:HB2	1.84	0.55
1:B:412:LEU:HD13	1:B:412:LEU:N	2.21	0.55
1:B:501:LEU:HD23	1:B:502:THR:H	1.70	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:HG23	1:B:447:VAL:O	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:91:ASN:CG	1:B:92:PRO:HD2	2.27	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:HD13	1:B:845:LEU:C	2.26	0.55
1:B:949:TYR:HE2	1:B:951:MET:HE2	1.71	0.55
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.27	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:1014:LEU:H	1:A:1014:LEU:CD2	2.17	0.55
1:B:72:LYS:HD2	1:B:80:LEU:HB2	1.87	0.55
1:B:280:VAL:HG12	1:B:281:ARG:N	2.22	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:42:PHE:HE2	1:B:50:PHE:HZ	1.54	0.55
1:B:226:ILE:HG23	1:B:226:ILE:O	2.06	0.55
1:B:380:LEU:HB2	1:B:386:LYS:HE2	1.87	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: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:A:988:PHE:HD2	1:A:1016:MET:SD	2.30	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:72:LYS:HD2	1:A:80:LEU:HB2	1.87	0.55
1:A:239:PHE:HA	1:A:260:PRO:CG	2.32	0.55
1:A:370:LEU:O	1:A:370:LEU:HD13	2.07	0.55
1:A:501:LEU:HD23	1:A:502:THR:N	2.22	0.55
1:A:804:GLY:HA2	1:A:806:MET:CE	2.36	0.55
1:A:597:LEU:HD22	1:A:597:LEU:N	2.21	0.54
1:A:1016:MET:HE3	1:A:1017:LYS:CA	2.38	0.54
1:B:168:VAL:HG22	1:B:169:PHE:N	2.22	0.54
1:B:370:LEU:O	1:B:370:LEU:HD13	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:46:PRO:CG	1:A:69:ARG:HG3	2.27	0.54
1:A:72:LYS:HD2	1:A:80:LEU:HD12	1.90	0.54
1:A:471:THR:CG2	1:A:473:GLN:HE22	2.20	0.54
1:A:709:ILE:O	1:A:799:TYR:HD1	1.91	0.54
1:A:710:LEU:HB2	1:A:801:TYR:CE1	2.41	0.54
1:A:874:LYS:H	1:A:982:SER:CB	2.20	0.54
1:B:72:LYS:HD2	1:B:80:LEU:HD12	1.90	0.54
1:B:236:ILE:HG23	1:B:236:ILE:O	2.07	0.54
1:B:370:LEU:HD13	1:B:370:LEU:C	2.27	0.54
1:B:440:LYS:HB2	1:B:538:LYS:NZ	2.22	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:H	1:A:947:LEU:CD2	2.21	0.54
1:B:460:ASP:OD2	1:B:463:LYS:HB3	2.06	0.54
1:A:63:TYR:CE2	1:A:72:LYS:HG2	2.43	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: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:HD22	1:A:412:LEU:C	2.28	0.54
1:A:994:LEU:HD11	1:A:1006:ASN:CB	2.37	0.54
1:B:412:LEU:C	1:B:412:LEU:HD22	2.28	0.54
1:B:426:GLU:HG2	1:B:429:ASP:O	2.08	0.54
1:A:495:ILE:HG23	1:A:495:ILE:O	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:151:PRO:O	1:B:157:HIS:HB3	2.08	0.54
1:B:154:LYS:HB2	1:B:157:HIS:HD2	1.70	0.54
1:B:471:THR:CG2	1:B:473:GLN:HE22	2.20	0.54
1:A:236:ILE:HG23	1:A:236:ILE:O	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:662:LEU:HD23	1:A:791:ASP:OD2	2.08	0.54
1:A:780:LEU:HD12	1:A:780:LEU:C	2.27	0.54
1:B:861:GLU:HG3	1:B:862:ILE:N	2.21	0.54
1:A:51:ASN:ND2	1:A:67:VAL:HG23	2.20	0.54
1:A:370:LEU:HD11	1:A:399:ILE:HD12	1.88	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:HD12	1:B:780:LEU:C	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:H	1:B:947:LEU:CD2	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:925:HIS:O	1:B:950:PHE:HD2	1.91	0.53
1:B:926:ALA:CB	1:B:947:LEU:HD12	2.35	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:HD12	1:B:623:ILE:C	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:C	1:B:385:LEU:HD13	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:O	1:B:947:LEU:HD23	2.09	0.53
1:A:119:ILE:HG23	1:A:119:ILE:O	2.09	0.53
1:A:356:ILE:HG22	1:A:421:ILE:O	2.09	0.53
1:A:385:LEU:HD13	1:A:385:LEU:C	2.29	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:A:963:GLY:C	1:A:1036:VAL:HG22	2.29	0.53
1:A:997:ARG:H	1:A:1004:ILE:CG2	2.22	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:40:VAL:HG11	1:A:503:ARG:NH2	2.24	0.53
1:A:308:LEU:O	1:A:338:PHE:HA	2.09	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:A:1032:VAL:HG12	1:A:1033:PHE:N	2.23	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:716:ILE:HG23	1:A:716:ILE:O	2.09	0.52
1:A:947:LEU:HD23	1:A:947:LEU:O	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:A:1019:THR:HG23	1:A:1019:THR:O	2.10	0.52
1:B:64:LEU:HD22	1:B:64:LEU:N	2.24	0.52
1:B:439:TYR:CZ	1:B:538:LYS:CE	2.92	0.52
1:B:495:ILE:O	1:B:495:ILE:HG23	2.08	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: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:A:1004:ILE:HG23	1:A:1004:ILE:O	2.08	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: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:868:PRO:CG	1:A:1022:VAL:HG21	2.40	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:64:LEU:HD22	1:A:64:LEU:N	2.24	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:B:59:THR:HB	1:B:61:HIS:CE1	2.45	0.52
1:B:228:ILE:HG22	1:B:233:PHE:CE1	2.45	0.52
1:B:472:VAL:O	1:B:472:VAL:HG12	2.09	0.52
1:B:575:LEU:H	1:B:575:LEU:CD2	2.22	0.52
1:A:39:PHE:CD1	1:A:505:PRO:HD2	2.44	0.52
1:A:198:ILE:HB	1:A:226:ILE:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:472:VAL:HG12	1:A:472:VAL:O	2.09	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: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:A:956:ALA:O	1:A:1031:LEU:HD11	2.10	0.52
1:B:64:LEU:HD11	1:B:501:LEU:HD12	1.92	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:827:SER:HB2	1:B:828:PRO:HD3	1.91	0.52
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: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: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:HG23	1:A:127:ILE:O	2.09	0.51
1:A:154:LYS:HB2	1:A:157:HIS:HD2	1.71	0.51
1:A:185:ALA:CB	1:A:243:TYR:CG	2.94	0.51
1:A:228:ILE:HG22	1:A:233:PHE:CE1	2.45	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:93:LYS:HD3	1:A:105:GLU:OE2	2.10	0.51
1:A:712:PRO:HG3	1:A:801:TYR:CZ	2.45	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:HG13	1:B:418:VAL:O	2.11	0.51
1:B:468:GLN:HB2	1:B:522:GLY:C	2.30	0.51
1:B:519:LEU:N	1:B:519:LEU:HD22	2.26	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:53:LEU:HG	1:A:64:LEU:HD11	1.92	0.51
1:A:216:VAL:HG13	1:A:217:PHE:N	2.26	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: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:B:184:ILE:HD12	1:B:184:ILE:C	2.31	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:HD13	1:A:396:LEU:C	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:59:THR:HB	1:A:61:HIS:CE1	2.45	0.51
1:A:76:ASP:O	1:A:77:LEU:HB2	2.11	0.51
1:A:418:VAL:O	1:A:418:VAL:HG13	2.10	0.51
1:A:519:LEU:HD22	1:A:519:LEU:N	2.26	0.51
1:A:567:ILE:CD1	1:A:650:PHE:CE2	2.94	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:847:LEU:HG	1:A:850:ALA:HA	1.91	0.51
1:B:53:LEU:HG	1:B:64:LEU:HD11	1.92	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:703:LEU:HD22	1:B:703:LEU:N	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:93:LYS:HD3	1:B:105:GLU:OE2	2.10	0.51
1:B:185:ALA:CB	1:B:243:TYR:CG	2.94	0.51
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:870:GLU:OE2	1:A:1025:ALA:CA	2.58	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: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:N	1:A:703:LEU:HD22	2.26	0.50
1:A:785:ASN:HB3	1:A:788:PHE:CE2	2.46	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:B:370:LEU:CD1	1:B:374:TYR:CD1	2.95	0.50
1:B:370:LEU:HD13	1:B:374:TYR:CD1	2.46	0.50
1:B:473:GLN:HB2	1:B:504:VAL:CG2	2.40	0.50
1:A:53:LEU:HD23	1:A:53:LEU:C	2.31	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: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:HG23	1:B:295:VAL:O	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:76:ASP:O	1:B:77:LEU:HB2	2.11	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:A:662:LEU:CD2	1:A:791:ASP:OD2	2.60	0.50
1:A:868:PRO:CD	1:A:980:ALA:C	2.54	0.50
1:A:895:VAL:O	1:A:896:ALA:HB3	2.11	0.50
1:A:1029:GLN:CG	1:A:1030:ASP:H	2.24	0.50
1:B:64:LEU:HB2	1:B:71:TYR:HD2	1.77	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:A:39:PHE:CD2	1:A:473:GLN:CG	2.95	0.50
1:A:81:VAL:HG12	1:A:82:THR:N	2.26	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: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: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:81:VAL:HG12	1:B:82:THR:N	2.26	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: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:HD12	1:B:790:ILE:H	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:59:THR:HB	1:B:61:HIS:ND1	2.27	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: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:HD22	1:A:412:LEU:O	2.11	0.49
1:A:790:ILE:HD12	1:A:790:ILE:H	1.77	0.49
1:A:955:LEU:HD11	1:A:973:ILE:HG23	1.94	0.49
1:B:40:VAL:HG21	1:B:76:ASP:O	2.12	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: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:532:HIS:CA	1:A:641:THR:HG21	2.43	0.49
1:A:597:LEU:H	1:A:597:LEU:CD2	2.26	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:254:TYR:CE2	1:A:281:ARG:HD2	2.48	0.49
1:A:295:VAL:HG23	1:A:295:VAL:O	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: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: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:265:PRO:HB2	1:A:266:PRO:HD2	1.94	0.49
1:A:991:GLN:CB	1:A:1008:THR:HG21	2.42	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:H	1:A:853:LYS:HD2	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:99:ILE:HD11	1:A:152:PHE:CB	2.41	0.48
1:A:603:LEU:HD23	1:A:603:LEU:C	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: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:59:THR:HB	1:A:61:HIS:ND1	2.27	0.48
1:A:473:GLN:CD	1:A:504:VAL:HG22	2.33	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:A:868:PRO:CG	1:A:1022:VAL:CG2	2.88	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: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:A:1020:VAL:O	1:A:1020:VAL:HG13	2.13	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:716:ILE:HD11	1:A:763:ASN:HB3	1.95	0.48
1:A:740:LEU:HD12	1:A:740:LEU:N	2.29	0.48
1:A:781:THR:HG23	1:A:781:THR:O	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:64:LEU:HB2	1:A:71:TYR:HD2	1.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:626:ASN:ND2	1:A:630:HIS:HB2	2.29	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:42:PHE:HZ	1:B:45:GLU:CB	2.22	0.48
1:B:144:ASP:O	1:B:145:LEU:HB2	2.13	0.48
1:B:626:ASN:ND2	1:B:630:HIS:HB2	2.29	0.48
1:B:782:VAL:CG2	1:B:790:ILE:HB	2.41	0.48
1:B:783:VAL:HG13	1:B:788:PHE:O	2.13	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: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:A:1010:SER:HB2	1:A:1035:TYR:CD2	2.49	0.47
1:B:440:LYS:HG2	1:B:440:LYS:O	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:O	1:A:440:LYS:HG2	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:OE1	1:A:991:GLN:HA	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:HE21	1:A:468:GLN:HB3	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:783:VAL:HG13	1:A:788:PHE:O	2.14	0.47
1:A:984:VAL:O	1:A:984:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:991:GLN:HG2	1:A:1008:THR:HG21	1.96	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:40:VAL:HG11	1:A:503:ARG:HE	1.79	0.47
1:A:264:SER:HA	1:A:265:PRO:HA	1.53	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:68:ASN:ND2	1:A:87:PRO:HD3	2.29	0.47
1:A:77:LEU:HD22	1:A:501:LEU:HD13	1.96	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: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:469:TYR:HB3	1:B:523:ASP:OD2	2.15	0.47
1:B:480:VAL:HB	1:B:484:MET:HE1	1.94	0.47
1:B:597:LEU:HD22	1:B:597:LEU:H	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:72:LYS:O	1:A:80:LEU:HB2	2.15	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: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:262:MET:O	1:B:263:VAL:HB	2.14	0.47
1:B:372:SER:HA	1:B:375:ARG:NE	2.29	0.47
1:B:569:VAL:CG1	1:B:620:PRO:HG3	2.45	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:947:LEU:H	1:B:947:LEU:HD23	1.80	0.47
1:A:253:VAL:HG23	1:A:253:VAL:O	2.15	0.47
1:A:453:LYS:HE3	1:A:472:VAL:HG22	1.94	0.47
1:A:843:ARG:HB2	1:A:843:ARG:NH1	2.30	0.47
1:A:892:HIS:CD2	1:A:893:VAL:CG2	2.98	0.47
1:A:958:LEU:HD13	1:A:1033:PHE:HD1	1.79	0.47
1:B:45:GLU:HB3	1:B:46:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:253:VAL:HG23	1:B:253:VAL:O	2.15	0.47
1:B:403:PHE:HE1	1:B:406:LEU:HD23	1.75	0.47
1:B:740:LEU:N	1:B:740:LEU:HD12	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: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:HD23	1:A:947:LEU:N	2.30	0.47
1:A:1020:VAL:HG13	1:A:1027:ILE:HG12	1.96	0.47
1:B:82:THR:HG23	1:B:82:THR:O	2.14	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:A:118:LEU:HD13	1:A:118:LEU:C	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:NH1	1:B:843:ARG:HB2	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:68:ASN:HB3	1:A:86:GLY:HA3	1.97	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:873:THR:HG23	1:A:981:GLY:O	2.14	0.46
1:A:949:TYR:CE2	1:A:951:MET:CE	2.95	0.46
1:B:72:LYS:O	1:B:80:LEU:HB2	2.15	0.46
1:B:567:ILE:HD12	1:B:650:PHE:CE2	2.49	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:82:THR:O	1:A:82:THR:HG23	2.14	0.46
1:A:532:HIS:CA	1:A:641:THR:OG1	2.57	0.46
1:A:1007:THR:HG22	1:A:1008:THR:O	2.15	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:68:ASN:HB3	1:B:86:GLY:HA3	1.97	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:892:HIS:CD2	1:B:893:VAL:CG2	2.98	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:A:1015:ASP:H	1:A:1035:TYR:H	1.63	0.46
1:B:46:PRO:CG	1:B:69:ARG:HG3	2.27	0.46
1:B:77:LEU:HD22	1:B:501:LEU:HD13	1.96	0.46
1:B:99:ILE:HD11	1:B:152:PHE:CB	2.41	0.46
1:B:902:PRO:HA	1:B:915:CYS:HA	1.97	0.46
1:A:62:ILE:HD11	1:A:73:LEU:CD1	2.45	0.46
1:A:62:ILE:CD1	1:A:77:LEU:CD2	2.94	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: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: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: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:A:286:ASP:OD1	1:A:288:ALA:HB3	2.16	0.46
1:A:380:LEU:HD12	1:A:390:ILE:CG2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:870:GLU:CA	1:A:1024:ARG:HG2	2.43	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:HG23	1:A:624:THR:O	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:62:ILE:CD1	1:B:73:LEU:HB2	2.47	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: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:532:HIS:C	1:A:641:THR:HG21	2.36	0.45
1:A:563:HIS:CB	1:A:577:VAL:HG12	2.46	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:45:GLU:HB3	1:A:46:PRO:HD3	1.97	0.45
1:A:380:LEU:CB	1:A:386:LYS:HE3	2.43	0.45
1:A:1020:VAL:CG1	1:A:1027:ILE:CG1	2.95	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: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: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: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:62:ILE:CD1	1:B:77:LEU:CD2	2.94	0.45
1:B:563:HIS:CB	1:B:577:VAL:HG12	2.46	0.45
1:B:624:THR:HG23	1:B:624:THR:O	2.15	0.45
1:B:805:ALA:N	1:B:806:MET:HE3	2.31	0.45
1:A:118:LEU:HB3	1:A:127:ILE:HG22	1.98	0.45
1:A:245:TYR:CD2	1:A:312:ALA:HB3	2.51	0.45
1:A:278:LYS:CE	1:A:296:PRO:HG3	2.41	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:A:1014:LEU:HD12	1:A:1035:TYR:O	2.16	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:46:PRO:HD2	1:A:71:TYR:OH	2.16	0.45
1:A:53:LEU:HD12	1:A:501:LEU:HG	1.99	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:594:PHE:CZ	1:A:614:PRO:HD3	2.51	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: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: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:62:ILE:CD1	1:A:501:LEU:CD1	2.95	0.45
1:A:182:LEU:HB2	1:A:203:LEU:HD11	1.99	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:91:ASN:OD1	1:A:92:PRO:HD2	2.16	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:B:327:VAL:HG11	1:B:358:ILE:HD11	1.97	0.45
1:B:468:GLN:HE21	1:B:468:GLN:HB3	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:53:LEU:HD12	1:B:501:LEU:HG	1.99	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:291:SER:HB3	1:B:404:CYS:O	2.18	0.44
1:B:305:GLU:HG2	1:B:307:ARG:HG2	1.99	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: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:247:PHE:CD1	1:B:314:LEU:HD22	2.52	0.44
1:B:264:SER:HA	1:B:265:PRO:HA	1.53	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:53:LEU:CG	1:A:64:LEU:CD1	2.96	0.44
1:A:58:ARG:HG2	1:A:58:ARG:NH1	2.31	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: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:40:VAL:HG13	1:A:40:VAL:O	2.17	0.44
1:A:72:LYS:CE	1:A:80:LEU:CD1	2.95	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: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:B:62:ILE:CD1	1:B:73:LEU:HD12	2.45	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:HG23	1:B:173:VAL:O	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

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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: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: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: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:CD	1:B:743:GLN:H	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:53:LEU:HD11	1:A:501:LEU:HD11	2.00	0.43
1:A:62:ILE:CD1	1:A:73:LEU:HD12	2.45	0.43
1:A:332:ASP:O	1:A:333:LEU:HD23	2.18	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: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:53:LEU:HD11	1:B:501:LEU:HD11	2.00	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: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:O	1:B:324:THR:HG22	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:62:ILE:CD1	1:A:501:LEU:HD13	2.49	0.43
1:A:435:ILE:CD1	1:A:486:PHE:HD1	2.31	0.43
1:A:531:LEU:C	1:A:641:THR:HG1	2.19	0.43
1:A:590:VAL:CG1	1:A:591:ASN:N	2.82	0.43
1:A:743:GLN:H	1:A:743:GLN:CD	2.22	0.43
1:A:839:ALA:HB1	1:A:841:GLU:O	2.18	0.43
1:A:1014:LEU:HA	1:A:1035:TYR:HB2	2.00	0.43
1:A:1016:MET:HE2	1:A:1033:PHE:H	1.84	0.43
1:A:1031:LEU:HD22	1:A:1031:LEU:N	2.34	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:100:VAL:HG21	1:A:158:TYR:OH	2.19	0.43
1:A:128:ALA:O	1:A:138:LYS:HG2	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:962:ARG:HD3	1:A:1034:GLN:HE21	1.83	0.43
1:A:978:LEU:HD13	1:A:1003:ILE:HG13	2.01	0.43
1:B:40:VAL:HG13	1:B:40:VAL:O	2.17	0.43
1:B:95:TYR:HD1	1:B:95:TYR:HA	1.70	0.43
1:B:117:LEU:HG	1:B:126:LEU:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:A:962:ARG:CB	1:A:1034:GLN:HG3	2.45	0.43
1:A:965:MET:HG3	1:A:1010:SER:O	2.18	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:72:LYS:CD	1:A:80:LEU:CD1	2.97	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: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:B:506:VAL:CG2	1:B:525:HIS:CE1	2.81	0.43
1:A:62:ILE:CD1	1:A:64:LEU:HD21	2.46	0.43
1:A:333:LEU:HD23	1:A:358:ILE:HA	2.01	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:55:VAL:HG22	1:A:62:ILE:HG22	2.00	0.43
1:A:112:ASN:ND2	1:A:133:TYR:HE2	2.17	0.43
1:A:117:LEU:HG	1:A:126:LEU:HD11	2.01	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: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:98:ARG:HE	1:A:107:LEU:HD12	1.83	0.42
1:A:665:VAL:HG11	1:A:697:PRO:CD	2.48	0.42
1:B:62:ILE:CD1	1:B:501:LEU:HD13	2.49	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: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:HD1	1:B:178:PHE:O	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: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:A:1032:VAL:CG1	1:A:1033:PHE:N	2.82	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: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:N	1:A:567:ILE:CD1	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:868:PRO:CD	1:A:981:GLY:HA2	1.99	0.42
1:A:953:LEU:HD12	1:A:978:LEU:HD23	2.01	0.42
1:A:1029:GLN:CG	1:A:1030:ASP:N	2.83	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: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
1:A:358:ILE:HG23	1:A:361:GLN:N	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:962:ARG:HD3	1:A:1034:GLN:NE2	2.34	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:123:GLU:HB2	1:A:125:ARG:HG2	2.01	0.42
1:A:435:ILE:HG21	1:A:486:PHE:HE1	1.81	0.42
1:A:460:ASP:CG	1:A:463:LYS:HB3	2.39	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:A:1007:THR:HG22	1:A:1008:THR:N	2.33	0.42
1:B:68:ASN:CB	1:B:86:GLY:HA3	2.50	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: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:437:TYR:HH	1:B:525:HIS:CD2	2.37	0.42
1:B:458:ARG:HD2	1:B:524:PRO:CB	2.31	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:O	1:A:324:THR:HG22	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:62:ILE:CD1	1:A:73:LEU:HB2	2.47	0.42
1:A:380:LEU:HD22	1:A:412:LEU:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:662:LEU:O	1:A:666:GLU:HB3	2.20	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:67:VAL:CG1	1:A:111:ASN:HB3	2.50	0.41
1:A:412:LEU:N	1:A:412:LEU:CD1	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:B:64:LEU:HD12	1:B:496:MET:HE3	1.98	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:817:ASP:OD1	1:B:820:PHE:CD2	2.73	0.41
1:A:44:GLY:O	1:A:47:ALA:HA	2.20	0.41
1:A:68:ASN:CB	1:A:86:GLY:HA3	2.50	0.41
1:A:216:VAL:CG1	1:A:217:PHE:N	2.82	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:959:LYS:CG	1:A:972:THR:CB	2.97	0.41
1:B:72:LYS:CE	1:B:80:LEU:CD1	2.95	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:716:ILE:CD1	1:B:763:ASN:HB3	2.49	0.41
1:B:728:GLN:HG3	1:B:753:ARG:NH2	2.35	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:A:1016:MET:HE2	1:A:1033:PHE:CB	2.49	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:HD3	1:A:307:ARG:HA	1.88	0.41
1:A:349:LEU:N	1:A:349:LEU:CD2	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:O	1:A:631:VAL:HG13	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:HD23	1:A:978:LEU:HA	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: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:HD23	1:A:531:LEU:HA	1.91	0.41
1:A:988:PHE:CB	1:A:1016:MET:SD	3.06	0.41
1:A:1031:LEU:HD22	1:A:1031:LEU:H	1.84	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:O	1:B:631:VAL:HG13	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:95:TYR:CG	1:A:96:PRO:CD	3.03	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:B:44:GLY:O	1:B:47:ALA:HA	2.20	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:658:HIS:ND1	1:B:663:SER:HB3	2.36	0.41
1:A:137:CYS:O	1:A:150:GLU:HG3	2.20	0.41
1:A:185:ALA:HB3	1:A:243:TYR:CD2	2.56	0.41
1:A:188:VAL:CG2	1:A:191:LYS:HB2	2.51	0.41
1:A:280:VAL:CG1	1:A:281:ARG:N	2.83	0.41
1:A:972:THR:CG2	1:A:1002:TYR:CE1	2.93	0.41
1:A:988:PHE:CD2	1:A:1016:MET:SD	3.12	0.41
1:B:95:TYR:CG	1:B:96:PRO:CD	3.03	0.41
1:B:492:GLN:CG	1:B:503:ARG:HD2	2.51	0.41
1:A:117:LEU:HD11	1:A:126:LEU:CD2	2.31	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: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:953:LEU:HA	1:A:977:ASN:HB2	2.02	0.41
1:A:959:LYS:HG2	1:A:972:THR:HB	2.02	0.41
1:B:111:ASN:O	1:B:132:LEU:HD13	2.20	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:236:ILE:CG2	1:B:239:PHE:HB2	2.51	0.41
1:B:239:PHE:CD1	1:B:260:PRO:CD	3.03	0.41
1:B:349:LEU:N	1:B:349:LEU:CD2	2.84	0.41
1:B:560:LEU:CG	1:B:648:THR:CG2	2.98	0.41
1:B:683:ASP:HA	1:B:684:PRO:HD3	1.83	0.41
1:B:696:LEU:HA	1:B:697:PRO:HD3	1.87	0.41
1:B:703:LEU:HD13	1:B:723:ALA:CB	2.47	0.41
1:B:710:LEU:HD12	1:B:710:LEU:C	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:901:SER:HA	1:B:902:PRO:HD2	1.89	0.41
1:A:95:TYR:CE2	1:A:194:TYR:CD1	3.09	0.41
1:A:111:ASN:O	1:A:132:LEU:HD22	2.21	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:45:GLU:CB	1:A:46:PRO:CD	3.00	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: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:44:GLY:CA	1:B:50:PHE:HE2	2.23	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: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:62:ILE:CD1	1:B:64:LEU:HD21	2.46	0.40
1:B:95:TYR:CE2	1:B:194:TYR:CD1	3.09	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:662:LEU:O	1:B:666:GLU:HB3	2.20	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:896:ALA:HB1	1:A:924:GLN:OE1	2.22	0.40
1:A:904:VAL:CG1	1:A:905:ASP:N	2.82	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:242:TYR:CE1	1:A:345:LYS:HE2	2.56	0.40
1:A:282:LEU:HD23	1:A:292:TYR:HA	2.03	0.40
1:A:847:LEU:CD1	1:A:850:ALA:CA	2.94	0.40
1:A:943:ARG:CZ	1:A:943:ARG:HB2	2.51	0.40
1:B:53:LEU:CG	1:B:64:LEU:CD1	2.96	0.40
1:B:81:VAL:CG1	1:B:82:THR:N	2.85	0.40
1:B:131:SER:O	1:B:133:TYR:CD2	2.74	0.40
1:B:681:THR:OG1	1:B:686:THR:HG21	2.21	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 (69) 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:731:SER:OG	1:B:83:HIS:CE1[2_646]	1.19	1.01
1:A:146:PHE:CZ	1:B:730:GLN:NE2[1_655]	1.20	1.00
1:A:146:PHE:CZ	1:B:730:GLN:CD[1_655]	1.29	0.91
1:A:730:GLN:OE1	1:B:146:PHE:CD1[2_646]	1.43	0.77
1:B:219:ASP:OD1	1:B:826:GLN:CD[1_655]	1.50	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:730:GLN:NE2	1:B:146:PHE:CE1[2_646]	1.52	0.68
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:287:THR:C	1:B:840:HIS:NE2[1_655]	1.55	0.65
1:A:148:LEU:O	1:B:728:GLN:OE1[1_655]	1.56	0.64
1:B:220:GLU:OE2	1:B:939:GLU:OE1[1_655]	1.56	0.64
1:A:730:GLN:CD	1:B:146:PHE:CE1[2_646]	1.57	0.63
1:B:287:THR:OG1	1:B:840:HIS:CB[1_655]	1.58	0.62
1:B:287:THR:C	1:B:840:HIS:CD2[1_655]	1.60	0.60
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:A:208:GLU:OE2	1:B:728:GLN:NE2[1_655]	1.93	0.27
1:B:217:PHE:CE1	1:B:827:SER:OG[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: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:CA	1:B:840:HIS:CG[1_655]	2.01	0.19
1:B:287:THR:CB	1:B:840:HIS:NE2[1_655]	2.01	0.19
1:A:731:SER:OG	1:B:83:HIS:NE2[2_646]	2.03	0.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:ASP:CG	1:B:826:GLN:OE1[1_655]	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
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%)	7 38
1	B	907/1207 (75%)	845 (93%)	43 (5%)	19 (2%)	7 36
All	All	1901/2414 (79%)	1768 (93%)	94 (5%)	39 (2%)	7 36

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

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Mol	Chain	Res	Type
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
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 [\(i\)](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	888/1067 (83%)	861 (97%)	27 (3%)	41 63
1	B	812/1067 (76%)	789 (97%)	23 (3%)	43 65
All	All	1700/2134 (80%)	1650 (97%)	50 (3%)	42 64

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

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Mol	Chain	Res	Type
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
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

Sometimes 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

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Mol	Chain	Res	Type
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
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 monosaccharides in this entry.

5.6 Ligand geometry [\(i\)](#)

There are no ligands in this entry.

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

There are no such residues in this entry.

5.8 Polymer linkage issues [\(i\)](#)

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 [\(i\)](#)

6.1 Protein, DNA and RNA chains [\(i\)](#)

Unable to reproduce the depositors R factor - this section is therefore empty.

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

Unable to reproduce the depositors R factor - this section is therefore empty.

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

Unable to reproduce the depositors R factor - this section is therefore empty.

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

Unable to reproduce the depositors R factor - this section is therefore empty.

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

Unable to reproduce the depositors R factor - this section is therefore empty.