



# Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 09:14 AM UTC

PDB ID : 2V50 / pdb\_00002v50  
Title : The Missing Part of the Bacterial MexAB-OprM System: Structural determination of the Multidrug Exporter MexB  
Authors : Sennhauser, G.; Bukowska, M.A.; Gruetter, M.G.  
Deposited on : 2008-10-01  
Resolution : 3.00 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](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

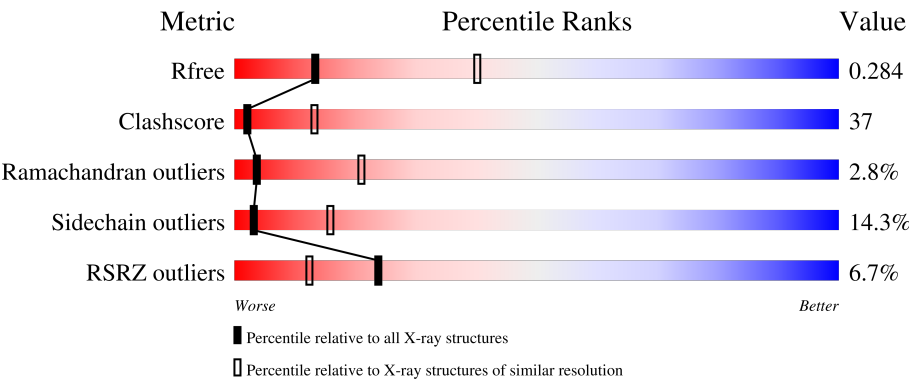
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:  
*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.00 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))
$R_{free}$	180053	2672 (3.00-3.00)
Clashscore	190562	2977 (3.00-3.00)
Ramachandran outliers	187476	2877 (3.00-3.00)
Sidechain outliers	187428	2880 (3.00-3.00)
RSRZ outliers	180081	2671 (3.00-3.00)

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

Mol	Chain	Length	Quality of chain
1	A	1052	
1	B	1052	
1	C	1052	
1	D	1052	
1	E	1052	

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Mol	Chain	Length	Quality of chain
1	F	1052	<div><div></div><div>8%</div><div>43%</div><div>47%</div><div>8%</div><div></div></div>

## 2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 46628 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 MULTIDRUG RESISTANCE PROTEIN MEXB.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1005	Total	C	N	O	S	6	0	0
			7634	4920	1265	1410	39			
1	B	1030	Total	C	N	O	S	0	0	0
			7812	5027	1298	1447	40			
1	C	1030	Total	C	N	O	S	12	0	0
			7812	5027	1298	1447	40			
1	D	998	Total	C	N	O	S	0	0	0
			7582	4888	1255	1399	40			
1	E	1012	Total	C	N	O	S	0	0	0
			7696	4956	1279	1421	40			
1	F	1030	Total	C	N	O	S	0	0	0
			7812	5027	1298	1447	40			

There are 36 discrepancies between the modelled and reference sequences:

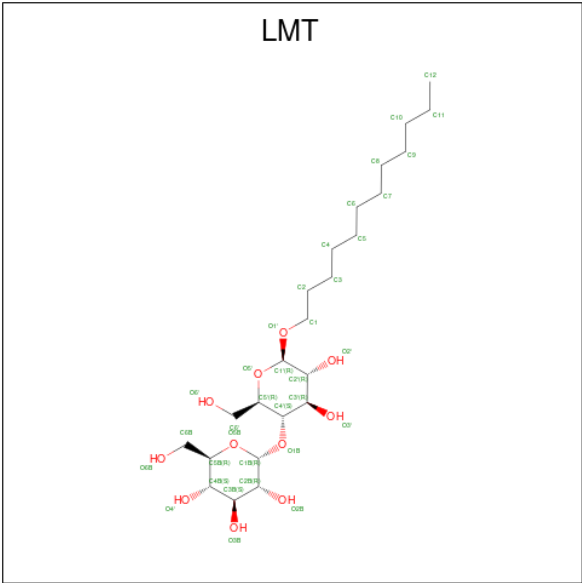
Chain	Residue	Modelled	Actual	Comment	Reference
A	1047	HIS	-	expression tag	UNP P52002
A	1048	HIS	-	expression tag	UNP P52002
A	1049	HIS	-	expression tag	UNP P52002
A	1050	HIS	-	expression tag	UNP P52002
A	1051	HIS	-	expression tag	UNP P52002
A	1052	HIS	-	expression tag	UNP P52002
B	1047	HIS	-	expression tag	UNP P52002
B	1048	HIS	-	expression tag	UNP P52002
B	1049	HIS	-	expression tag	UNP P52002
B	1050	HIS	-	expression tag	UNP P52002
B	1051	HIS	-	expression tag	UNP P52002
B	1052	HIS	-	expression tag	UNP P52002
C	1047	HIS	-	expression tag	UNP P52002
C	1048	HIS	-	expression tag	UNP P52002
C	1049	HIS	-	expression tag	UNP P52002
C	1050	HIS	-	expression tag	UNP P52002
C	1051	HIS	-	expression tag	UNP P52002

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Chain	Residue	Modelled	Actual	Comment	Reference
C	1052	HIS	-	expression tag	UNP P52002
D	1047	HIS	-	expression tag	UNP P52002
D	1048	HIS	-	expression tag	UNP P52002
D	1049	HIS	-	expression tag	UNP P52002
D	1050	HIS	-	expression tag	UNP P52002
D	1051	HIS	-	expression tag	UNP P52002
D	1052	HIS	-	expression tag	UNP P52002
E	1047	HIS	-	expression tag	UNP P52002
E	1048	HIS	-	expression tag	UNP P52002
E	1049	HIS	-	expression tag	UNP P52002
E	1050	HIS	-	expression tag	UNP P52002
E	1051	HIS	-	expression tag	UNP P52002
E	1052	HIS	-	expression tag	UNP P52002
F	1047	HIS	-	expression tag	UNP P52002
F	1048	HIS	-	expression tag	UNP P52002
F	1049	HIS	-	expression tag	UNP P52002
F	1050	HIS	-	expression tag	UNP P52002
F	1051	HIS	-	expression tag	UNP P52002
F	1052	HIS	-	expression tag	UNP P52002

- Molecule 2 is DODECYL-BETA-D-MALTOSIDE (CCD ID: LMT) (formula: C<sub>24</sub>H<sub>46</sub>O<sub>11</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			35	24	11		
2	B	1	Total	C	O	0	0
			35	24	11		

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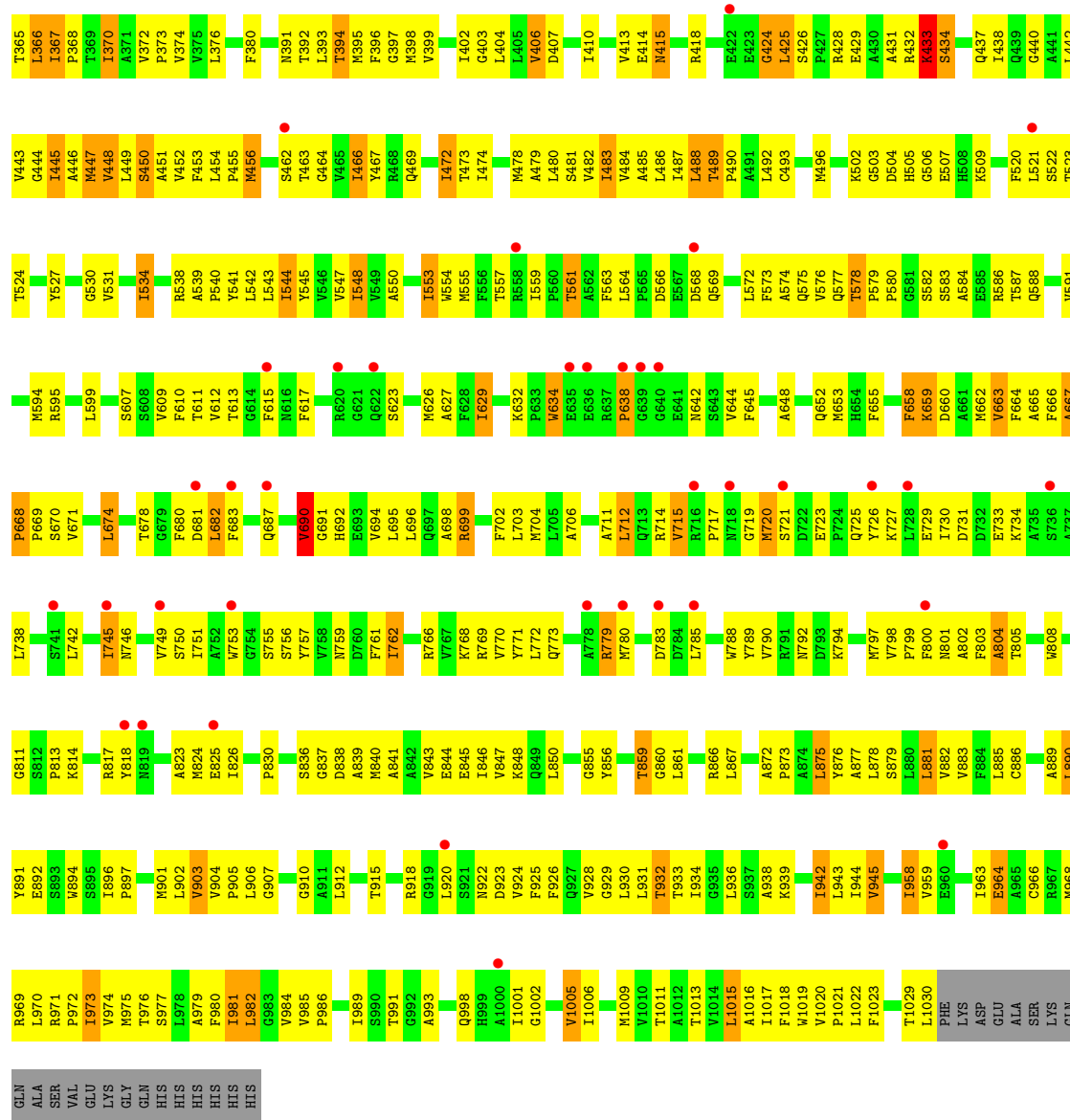
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	B	1	Total	C	O	0	0
			35	24	11		
2	B	1	Total	C	O	0	0
			35	24	11		
2	D	1	Total	C	O	0	0
			35	24	11		
2	E	1	Total	C	O	0	0
			35	24	11		
2	E	1	Total	C	O	0	0
			35	24	11		
2	E	1	Total	C	O	0	0
			35	24	11		



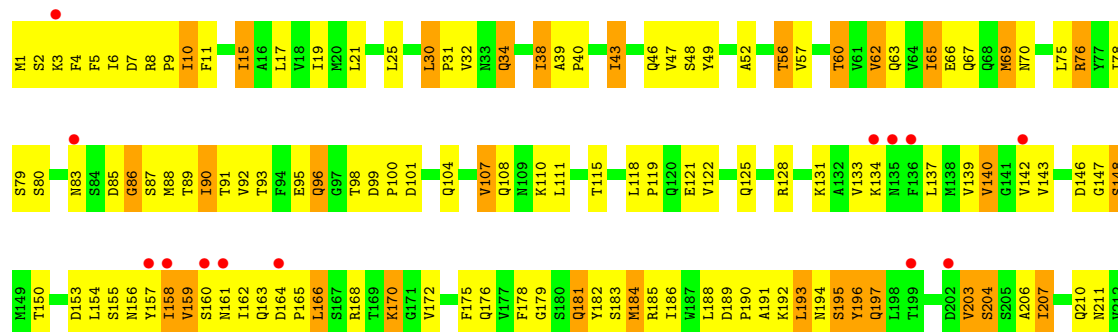




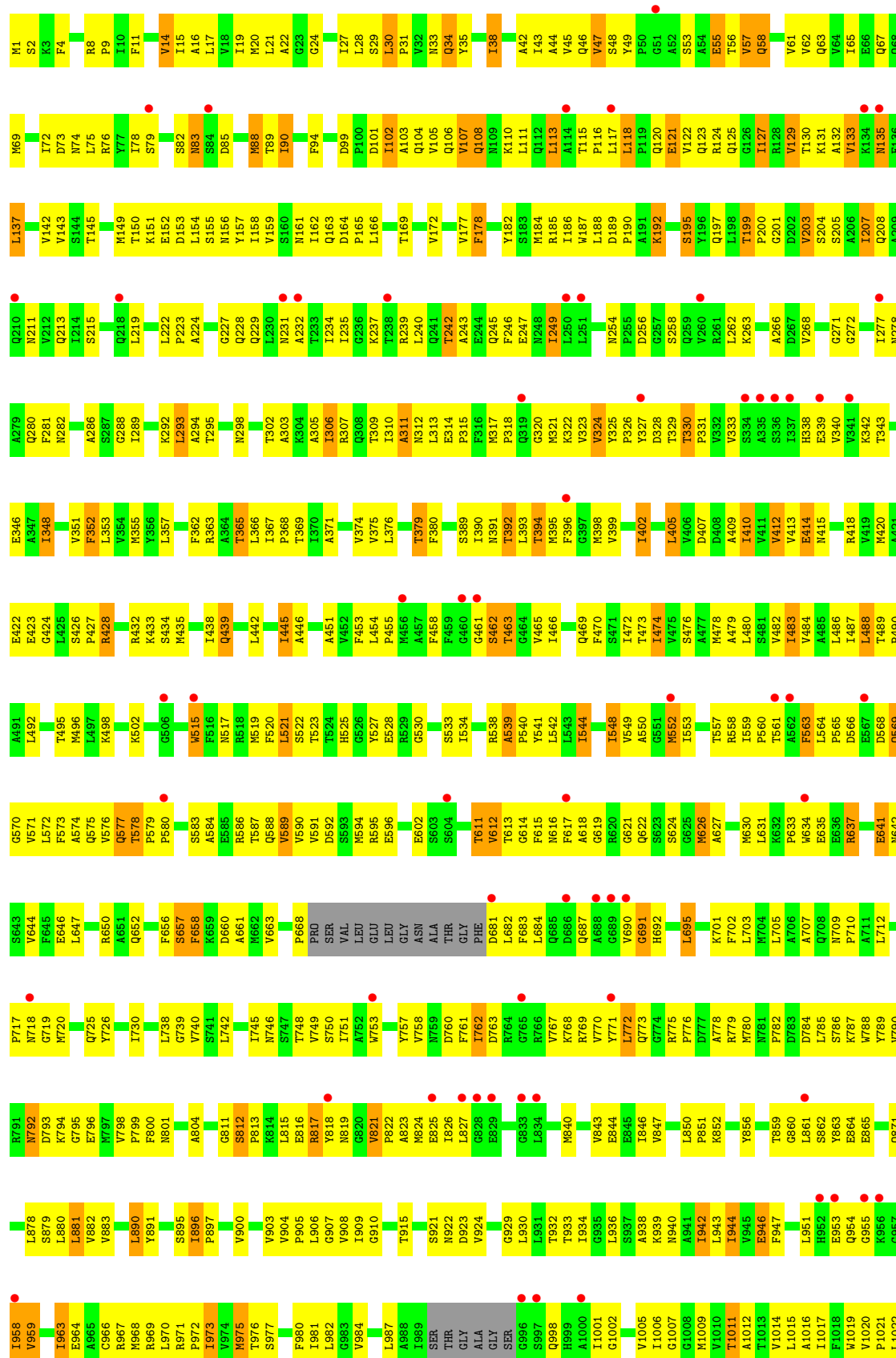


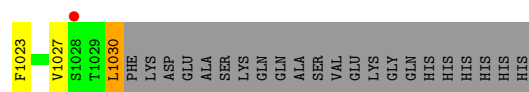


• Molecule 1: MULTIDRUG RESISTANCE PROTEIN MEXB

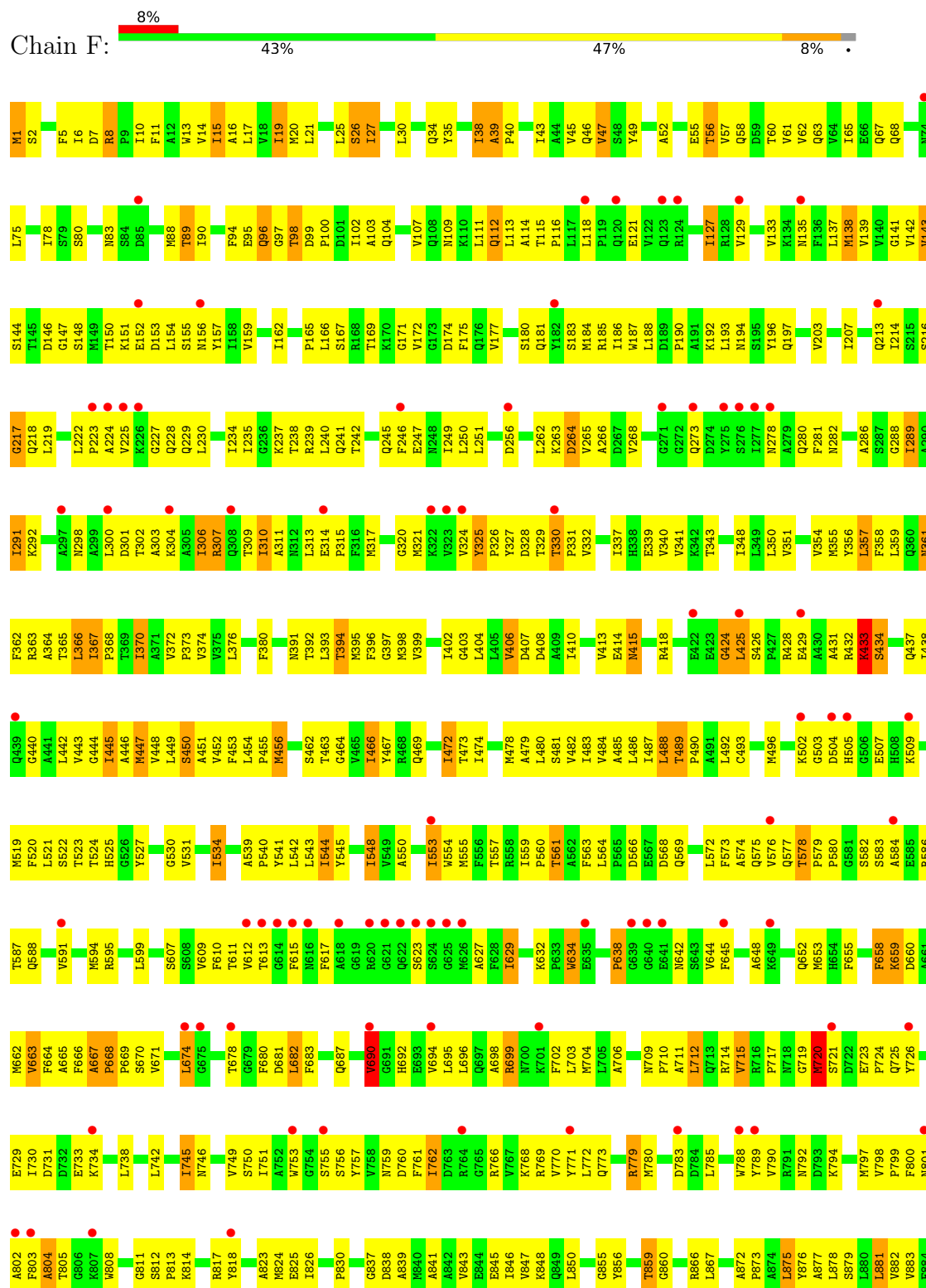


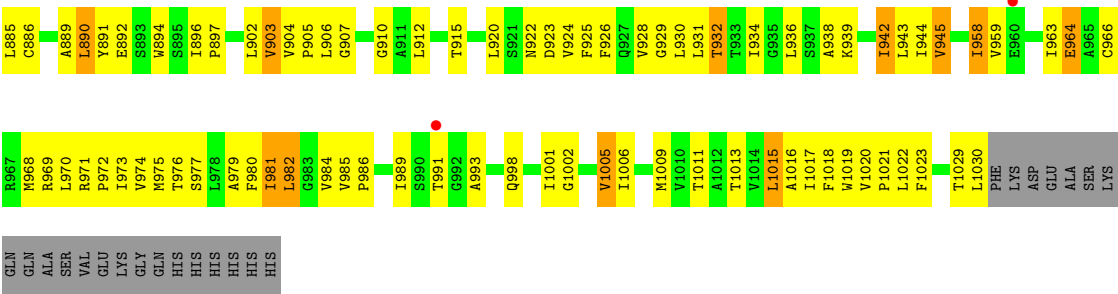






• Molecule 1: MULTIDRUG RESISTANCE PROTEIN MEXB





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	125.05Å 134.58Å 151.02Å 86.99° 69.70° 88.16°	Depositor
Resolution (Å)	49.76 – 3.00 49.76 – 3.00	Depositor EDS
% Data completeness (in resolution range)	96.3 (49.76-3.00) 96.2 (49.76-3.00)	Depositor EDS
$R_{merge}$	0.04	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.13 (at 3.01Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, $R_{free}$	0.242 , 0.287 0.241 , 0.284	Depositor DCC
$R_{free}$ test set	3539 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	88.4	Xtriage
Anisotropy	0.217	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.27 , 57.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.92	EDS
Total number of atoms	46628	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	100.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.15% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

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

## 5 Model quality

### 5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 5$	RMSZ	$\# Z  > 5$
1	A	0.41	0/7789	0.82	8/10588 (0.1%)
1	B	0.40	0/7971	0.77	6/10833 (0.1%)
1	C	0.35	0/7971	0.80	15/10833 (0.1%)
1	D	0.39	0/7735	0.80	6/10510 (0.1%)
1	E	0.37	0/7851	0.77	6/10666 (0.1%)
1	F	0.37	0/7971	0.80	14/10833 (0.1%)
All	All	0.38	0/47288	0.79	55/64263 (0.1%)

There are no bond length outliers.

All (55) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	325	TYR	CA-C-N	7.15	126.83	119.82
1	C	325	TYR	C-N-CA	7.15	126.83	119.82
1	F	325	TYR	CA-C-N	6.84	126.52	119.82
1	F	325	TYR	C-N-CA	6.84	126.52	119.82
1	C	11	PHE	N-CA-C	-6.34	104.28	111.07
1	A	30	LEU	CA-C-N	6.29	126.24	119.76
1	A	30	LEU	C-N-CA	6.29	126.24	119.76
1	D	837	GLY	N-CA-C	-6.19	106.99	114.66
1	B	83	ASN	N-CA-C	6.14	118.53	109.69
1	B	311	ALA	N-CA-C	-6.13	107.03	114.75
1	E	311	ALA	N-CA-C	-6.11	107.05	114.75
1	F	8	ARG	CA-C-N	6.05	125.67	119.56
1	F	8	ARG	C-N-CA	6.05	125.67	119.56
1	D	810	TYR	N-CA-C	6.03	117.56	108.46
1	F	667	ALA	CA-C-N	5.98	123.96	119.66
1	F	667	ALA	C-N-CA	5.98	123.96	119.66
1	F	11	PHE	N-CA-C	-5.97	104.68	111.07
1	E	83	ASN	N-CA-C	5.91	118.20	109.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	837	GLY	N-CA-C	-5.87	107.38	114.66
1	C	668	PRO	CA-C-N	5.87	125.78	119.85
1	C	668	PRO	C-N-CA	5.87	125.78	119.85
1	C	667	ALA	CA-C-N	5.85	123.88	119.66
1	C	667	ALA	C-N-CA	5.85	123.88	119.66
1	C	39	ALA	CA-C-N	5.84	126.40	120.38
1	C	39	ALA	C-N-CA	5.84	126.40	120.38
1	D	540	PRO	N-CA-C	-5.82	105.45	113.53
1	A	540	PRO	N-CA-C	-5.81	105.45	113.53
1	A	810	TYR	N-CA-C	5.75	117.15	108.46
1	A	86	GLY	N-CA-C	-5.59	107.53	115.30
1	C	311	ALA	N-CA-C	-5.58	106.15	114.64
1	C	894	TRP	N-CA-C	-5.52	106.54	113.72
1	F	39	ALA	CA-C-N	5.51	126.06	120.38
1	F	39	ALA	C-N-CA	5.51	126.06	120.38
1	F	668	PRO	CA-C-N	5.50	125.41	119.85
1	F	668	PRO	C-N-CA	5.50	125.41	119.85
1	C	8	ARG	CA-C-N	5.46	125.07	119.56
1	C	8	ARG	C-N-CA	5.46	125.07	119.56
1	A	709	ASN	CA-C-N	5.37	126.56	119.84
1	A	709	ASN	C-N-CA	5.37	126.56	119.84
1	F	307	ARG	N-CA-C	-5.34	106.70	113.43
1	B	30	LEU	CA-C-N	5.27	126.43	119.84
1	B	30	LEU	C-N-CA	5.27	126.43	119.84
1	F	311	ALA	N-CA-C	-5.26	106.64	114.64
1	D	30	LEU	CA-C-N	5.23	125.14	119.76
1	D	30	LEU	C-N-CA	5.23	125.14	119.76
1	F	894	TRP	N-CA-C	-5.22	106.93	113.72
1	C	668	PRO	O-C-N	5.21	123.60	121.15
1	D	86	GLY	N-CA-C	-5.20	108.08	115.30
1	B	325	TYR	CA-C-N	5.12	126.24	119.84
1	B	325	TYR	C-N-CA	5.12	126.24	119.84
1	C	307	ARG	N-CA-C	-5.07	106.23	112.72
1	E	325	TYR	CA-C-N	5.07	126.17	119.84
1	E	325	TYR	C-N-CA	5.07	126.17	119.84
1	E	30	LEU	CA-C-N	5.05	126.15	119.84
1	E	30	LEU	C-N-CA	5.05	126.15	119.84

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7634	0	7765	714	0
1	B	7812	0	7944	573	0
1	C	7812	0	7944	534	0
1	D	7582	0	7716	699	0
1	E	7696	0	7832	562	0
1	F	7812	0	7944	534	0
2	A	35	0	46	10	0
2	B	105	0	138	17	0
2	D	35	0	46	5	0
2	E	105	0	138	22	0
All	All	46628	0	47513	3516	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 37.

All (3516) 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:76:ARG:HG2	1:A:76:ARG:HH11	1.09	1.13
1:B:43:ILE:HG21	1:B:107:VAL:HG11	1.30	1.12
1:A:375:VAL:HG21	1:A:405:LEU:HG	1.33	1.11
1:C:699:ARG:HG3	1:C:699:ARG:HH11	1.09	1.10
1:F:699:ARG:HH11	1:F:699:ARG:HG3	1.08	1.09
1:D:76:ARG:HG2	1:D:76:ARG:HH11	1.11	1.08
1:E:43:ILE:HG21	1:E:107:VAL:HG11	1.32	1.07
1:E:882:VAL:HG11	2:E:2032:LMT:H101	1.38	1.05
1:D:375:VAL:HG21	1:D:405:LEU:HG	1.33	1.05
1:A:318:PRO:HD2	1:A:321:MET:HE2	1.40	1.03
1:B:410:ILE:HD11	1:B:976:THR:HG22	1.43	1.01
1:F:447:MET:HE1	1:F:886:CYS:HB3	1.43	1.01
1:B:817:ARG:HG3	1:B:817:ARG:HH11	1.23	1.00
1:A:140:VAL:HG23	1:A:289:ILE:HG23	1.44	0.99
1:E:817:ARG:HH11	1:E:817:ARG:HG3	1.25	0.99
1:D:140:VAL:HG23	1:D:289:ILE:HG23	1.43	0.98
1:E:162:ILE:HG22	1:E:313:LEU:HD13	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:447:MET:HE1	1:C:886:CYS:HB3	1.43	0.98
1:D:251:LEU:HD11	1:D:262:LEU:HB2	1.45	0.98
1:E:410:ILE:HD11	1:E:976:THR:HG22	1.43	0.97
1:F:485:ALA:HA	1:F:489:THR:HG23	1.45	0.97
1:D:780:MET:HE1	1:F:224:ALA:HA	1.41	0.96
1:E:234:ILE:HG22	1:F:726:TYR:HB2	1.45	0.96
1:A:568:ASP:HB3	1:A:634:TRP:CZ3	2.01	0.96
1:B:162:ILE:HG22	1:B:313:LEU:HD13	1.47	0.96
1:C:485:ALA:HA	1:C:489:THR:HG23	1.48	0.95
1:D:568:ASP:HB3	1:D:634:TRP:CZ3	2.00	0.95
1:E:442:LEU:HD23	1:E:445:ILE:HD11	1.51	0.93
1:A:56:THR:O	1:A:60:THR:HB	1.69	0.93
1:F:577:GLN:HB3	1:F:662:MET:HB2	1.50	0.92
1:C:577:GLN:HB3	1:C:662:MET:HB2	1.52	0.92
1:D:156:ASN:HD22	1:D:182:TYR:H	0.92	0.92
1:A:780:MET:HE1	1:C:224:ALA:HA	1.52	0.92
1:A:730:ILE:HD11	1:C:237:LYS:HD3	1.50	0.92
1:D:470:PHE:O	1:D:473:THR:HG22	1.70	0.92
1:E:966:CYS:SG	1:E:1021:PRO:HG3	2.11	0.91
1:A:791:ARG:HB2	1:A:797:MET:HE1	1.53	0.91
1:E:878:LEU:HD13	2:E:2032:LMT:H31	1.52	0.91
1:A:360:GLN:HE22	1:A:517:ASN:HD21	1.18	0.91
1:A:757:TYR:HE2	1:A:769:ARG:HB3	1.35	0.91
1:B:966:CYS:SG	1:B:1021:PRO:HG3	2.11	0.91
1:D:56:THR:O	1:D:60:THR:HB	1.69	0.91
1:B:442:LEU:HD23	1:B:445:ILE:HD11	1.53	0.91
1:E:435:MET:O	1:E:439:GLN:HB2	1.71	0.90
1:B:527:TYR:CD2	1:B:970:LEU:HD12	2.07	0.90
1:E:527:TYR:CD2	1:E:970:LEU:HD12	2.06	0.90
1:B:435:MET:O	1:B:439:GLN:HB2	1.72	0.89
2:B:2032:LMT:H5B	2:B:2032:LMT:H6D	1.53	0.89
1:A:253:VAL:HG12	1:A:259:GLN:HB3	1.52	0.89
1:D:569:GLN:H	1:D:634:TRP:HH2	1.16	0.89
1:A:569:GLN:H	1:A:634:TRP:HH2	1.17	0.88
1:D:76:ARG:HG2	1:D:76:ARG:NH1	1.85	0.88
1:D:680:PHE:HD1	1:D:828:GLY:O	1.57	0.88
1:A:242:THR:HG22	1:A:245:GLN:HE21	1.39	0.88
1:A:966:CYS:SG	1:A:1021:PRO:HG3	2.14	0.88
1:D:226:LYS:H	1:D:226:LYS:HD2	1.39	0.87
1:D:156:ASN:ND2	1:D:182:TYR:H	1.73	0.87
1:E:367:ILE:HD13	1:E:496:MET:HE2	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2026:LMT:H122	2:A:2026:LMT:H82	1.54	0.87
1:B:20:MET:HE2	1:B:374:VAL:HG23	1.57	0.87
1:E:900:VAL:HG11	1:E:942:ILE:HG23	1.55	0.87
1:A:470:PHE:O	1:A:473:THR:HG22	1.75	0.87
1:D:966:CYS:SG	1:D:1021:PRO:HG3	2.15	0.87
1:A:733:GLU:HG2	1:C:250:LEU:HD11	1.56	0.86
1:D:730:ILE:HD11	1:F:237:LYS:HD3	1.56	0.86
1:D:757:TYR:HE2	1:D:769:ARG:HB3	1.38	0.86
1:E:125:GLN:NE2	1:E:769:ARG:HH12	1.73	0.86
1:A:226:LYS:H	1:A:226:LYS:HD2	1.40	0.86
1:A:831:ALA:HB3	1:A:834:LEU:HD22	1.56	0.86
1:E:560:PRO:HB2	1:E:921:SER:HB3	1.57	0.86
1:B:367:ILE:HD13	1:B:496:MET:HE2	1.56	0.86
1:B:900:VAL:HG11	1:B:942:ILE:HG23	1.55	0.86
1:A:76:ARG:HG2	1:A:76:ARG:NH1	1.82	0.86
1:B:560:PRO:HB2	1:B:921:SER:HB3	1.57	0.86
1:A:498:LYS:H	1:A:499:PRO:CD	1.89	0.85
1:D:360:GLN:HE22	1:D:517:ASN:HD21	1.19	0.85
1:C:699:ARG:HG3	1:C:699:ARG:NH1	1.90	0.85
1:D:456:MET:HE3	1:D:931:LEU:HD12	1.59	0.85
1:D:634:TRP:CD1	1:D:634:TRP:H	1.92	0.85
1:F:38:ILE:HG13	1:F:38:ILE:O	1.75	0.85
1:F:936:LEU:HD13	1:F:1009:MET:HG2	1.58	0.85
1:F:699:ARG:HG3	1:F:699:ARG:NH1	1.89	0.85
1:C:456:MET:HE3	1:C:931:LEU:HD12	1.57	0.85
1:D:731:ASP:HB3	1:D:734:LYS:HB2	1.58	0.85
1:C:166:LEU:HD12	1:C:289:ILE:HD12	1.57	0.85
1:D:498:LYS:H	1:D:499:PRO:CD	1.88	0.85
1:B:125:GLN:NE2	1:B:769:ARG:HH12	1.75	0.85
1:C:38:ILE:HG13	1:C:38:ILE:O	1.76	0.85
1:E:20:MET:HE2	1:E:374:VAL:HG23	1.58	0.85
1:C:936:LEU:HD13	1:C:1009:MET:HG2	1.58	0.84
1:A:706:ALA:HB2	1:A:846:ILE:HD13	1.59	0.84
1:B:247:GLU:HB3	1:B:263:LYS:HG2	1.57	0.84
1:A:680:PHE:HD1	1:A:828:GLY:O	1.58	0.84
1:F:184:MET:HE1	1:F:268:VAL:HG13	1.60	0.84
2:E:2033:LMT:H62	2:E:2033:LMT:H122	1.57	0.84
1:B:234:ILE:HG22	1:C:726:TYR:HB2	1.60	0.84
1:E:247:GLU:HB3	1:E:263:LYS:HG2	1.59	0.84
1:A:56:THR:HG22	1:C:213:GLN:HB3	1.57	0.84
1:F:699:ARG:HH11	1:F:699:ARG:CG	1.91	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:520:PHE:HA	1:E:523:THR:HG22	1.60	0.83
1:A:731:ASP:HB3	1:A:734:LYS:HB2	1.58	0.83
1:F:472:ILE:H	1:F:472:ILE:HD13	1.43	0.83
1:E:158:ILE:HG22	1:E:162:ILE:HD11	1.61	0.83
1:A:456:MET:HE3	1:A:931:LEU:HD12	1.60	0.83
1:B:520:PHE:HA	1:B:523:THR:HG22	1.61	0.83
1:F:166:LEU:HD12	1:F:289:ILE:HD12	1.60	0.83
1:C:317:MET:HE2	1:C:321:MET:SD	2.18	0.82
1:D:156:ASN:HD22	1:D:182:TYR:N	1.76	0.82
1:D:242:THR:HG22	1:D:245:GLN:HE21	1.41	0.82
1:A:540:PRO:O	1:A:544:ILE:HG22	1.79	0.82
1:B:568:ASP:HB3	1:B:634:TRP:HZ3	1.44	0.82
1:E:428:ARG:HB3	1:E:432:ARG:HH21	1.42	0.82
1:C:159:VAL:HG22	1:C:177:VAL:HG11	1.59	0.82
1:D:540:PRO:O	1:D:544:ILE:HG22	1.80	0.82
1:F:241:GLN:HG2	1:F:762:ILE:HG13	1.60	0.82
1:C:241:GLN:HG2	1:C:762:ILE:HG13	1.59	0.82
1:A:76:ARG:HH11	1:A:76:ARG:CG	1.92	0.82
1:C:138:MET:HB2	1:C:328:ASP:HA	1.62	0.81
1:D:680:PHE:CE2	1:D:858:TRP:HZ3	1.96	0.81
1:F:317:MET:HE2	1:F:321:MET:SD	2.21	0.81
1:A:808:TRP:CZ3	1:D:708:GLN:HB3	2.15	0.81
1:D:228:GLN:HE21	1:D:230:LEU:H	1.26	0.81
1:D:733:GLU:HG2	1:F:250:LEU:HD11	1.60	0.81
1:B:687:GLN:HE22	1:B:821:VAL:HG21	1.45	0.81
1:E:568:ASP:HB3	1:E:634:TRP:HZ3	1.44	0.81
1:A:634:TRP:CD1	1:A:634:TRP:H	1.92	0.81
1:A:699:ARG:NH2	1:A:824:MET:HG3	1.94	0.81
1:F:456:MET:HE3	1:F:931:LEU:HD12	1.60	0.81
1:B:428:ARG:HB3	1:B:432:ARG:HH21	1.46	0.81
1:A:228:GLN:HE21	1:A:230:LEU:H	1.28	0.81
1:C:544:ILE:HG12	1:C:1019:TRP:HH2	1.44	0.81
1:D:699:ARG:NH2	1:D:824:MET:HG3	1.95	0.81
1:B:158:ILE:HD11	1:B:177:VAL:HG13	1.63	0.80
1:B:367:ILE:HB	1:B:368:PRO:HD3	1.63	0.80
1:E:158:ILE:HD11	1:E:177:VAL:HG13	1.63	0.80
1:F:159:VAL:HG22	1:F:177:VAL:HG11	1.62	0.80
1:B:969:ARG:O	1:B:972:PRO:HD2	1.81	0.80
1:F:46:GLN:HG2	1:F:89:THR:HB	1.63	0.80
1:C:362:PHE:O	1:C:366:LEU:HB2	1.81	0.80
1:F:652:GLN:NE2	1:F:665:ALA:H	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:138:MET:HB2	1:F:328:ASP:HA	1.62	0.80
1:C:184:MET:HE1	1:C:268:VAL:HG13	1.62	0.80
1:E:472:ILE:HD11	2:E:2031:LMT:H61	1.63	0.80
1:F:362:PHE:O	1:F:366:LEU:HB2	1.81	0.80
1:B:938:ALA:O	1:B:942:ILE:HG12	1.82	0.80
1:D:262:LEU:HD21	1:D:265:VAL:HB	1.64	0.80
1:E:213:GLN:HG3	1:E:239:ARG:HG3	1.62	0.80
1:F:544:ILE:HG12	1:F:1019:TRP:HH2	1.46	0.80
1:F:574:ALA:HB3	1:F:627:ALA:HB3	1.64	0.80
1:A:419:VAL:HG23	1:A:430:ALA:HB1	1.62	0.79
1:F:928:VAL:O	1:F:932:THR:HG22	1.82	0.79
1:C:928:VAL:O	1:C:932:THR:HG22	1.81	0.79
1:B:213:GLN:HG3	1:B:239:ARG:HG3	1.62	0.79
1:C:574:ALA:HB3	1:C:627:ALA:HB3	1.62	0.79
1:A:234:ILE:HG22	1:B:726:TYR:HB3	1.65	0.79
1:B:415:ASN:HD22	1:B:434:SER:HB2	1.47	0.79
1:B:534:ILE:HG22	1:B:1022:LEU:HD23	1.64	0.79
1:B:703:LEU:HD11	1:B:717:PRO:HG3	1.64	0.79
1:C:472:ILE:H	1:C:472:ILE:HD13	1.46	0.79
2:A:2026:LMT:H5B	2:A:2026:LMT:H6D	1.62	0.79
1:E:938:ALA:O	1:E:942:ILE:HG12	1.82	0.79
1:C:652:GLN:NE2	1:C:665:ALA:H	1.79	0.79
2:E:2031:LMT:H5B	2:E:2031:LMT:H6E	1.65	0.79
1:B:428:ARG:H	1:B:428:ARG:HD2	1.49	0.78
1:D:352:PHE:HD1	1:D:369:THR:HG21	1.47	0.78
1:F:43:ILE:HD13	1:F:104:GLN:HA	1.65	0.78
1:A:757:TYR:CE2	1:A:769:ARG:HB3	2.19	0.78
1:E:583:SER:O	1:E:587:THR:HG22	1.84	0.78
1:A:170:LYS:HA	1:A:170:LYS:HE3	1.63	0.78
1:A:170:LYS:NZ	1:B:74:ASN:H	1.81	0.78
1:D:634:TRP:H	1:D:634:TRP:HD1	1.31	0.78
1:E:534:ILE:HG22	1:E:1022:LEU:HD23	1.63	0.78
1:C:46:GLN:HG2	1:C:89:THR:HB	1.63	0.78
1:D:76:ARG:HH11	1:D:76:ARG:CG	1.95	0.78
1:D:170:LYS:HA	1:D:170:LYS:HE3	1.65	0.78
1:D:170:LYS:NZ	1:E:74:ASN:H	1.80	0.78
1:A:938:ALA:O	1:A:942:ILE:HG12	1.84	0.78
1:D:56:THR:HG22	1:F:213:GLN:HB3	1.65	0.78
1:A:800:PHE:HD2	1:A:804:ALA:HB2	1.48	0.78
1:B:158:ILE:HG22	1:B:162:ILE:HD11	1.64	0.78
2:B:2032:LMT:H6D	2:B:2032:LMT:C5B	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:800:PHE:HD2	1:D:804:ALA:HB2	1.47	0.78
1:E:969:ARG:O	1:E:972:PRO:HD2	1.84	0.78
1:D:319:GLN:CD	1:D:319:GLN:H	1.91	0.78
1:A:352:PHE:HD1	1:A:369:THR:HG21	1.48	0.77
1:A:237:LYS:HD2	1:B:730:ILE:HD11	1.66	0.77
1:D:234:ILE:HG22	1:E:726:TYR:HB3	1.65	0.77
1:D:780:MET:HE3	1:F:225:VAL:HG23	1.67	0.77
1:E:367:ILE:HB	1:E:368:PRO:HD3	1.65	0.77
1:B:125:GLN:HE22	1:B:769:ARG:HH12	1.32	0.77
1:C:938:ALA:O	1:C:942:ILE:HG23	1.84	0.77
1:D:616:ASN:ND2	1:D:626:MET:HB3	2.00	0.77
1:F:485:ALA:HA	1:F:489:THR:CG2	2.14	0.77
1:A:710:PRO:O	1:A:831:ALA:HB2	1.83	0.77
1:D:827:LEU:HD12	1:D:827:LEU:O	1.84	0.77
1:E:45:VAL:HB	1:E:90:ILE:HG23	1.67	0.77
1:E:703:LEU:HD11	1:E:717:PRO:HG3	1.65	0.77
1:A:634:TRP:H	1:A:634:TRP:HD1	1.32	0.77
1:D:90:ILE:HD12	1:D:91:THR:N	2.00	0.77
1:A:534:ILE:O	1:A:538:ARG:HB3	1.85	0.76
1:B:583:SER:O	1:B:587:THR:HG22	1.85	0.76
1:C:43:ILE:HD13	1:C:104:GLN:HA	1.66	0.76
1:E:891:TYR:CG	1:E:896:ILE:HD11	2.20	0.76
1:A:453:PHE:CD2	1:A:474:ILE:HD11	2.21	0.76
1:E:125:GLN:HE22	1:E:769:ARG:HH12	1.31	0.76
1:F:415:ASN:HD22	1:F:434:SER:HB3	1.50	0.76
1:A:273:GLN:CD	1:A:769:ARG:HD2	2.11	0.76
1:A:708:GLN:HG2	1:D:809:GLU:HB3	1.66	0.76
1:B:817:ARG:HG3	1:B:817:ARG:NH1	1.99	0.76
1:E:614:GLY:HA2	1:E:621:GLY:O	1.86	0.76
1:E:751:ILE:HG21	1:E:772:LEU:HD13	1.67	0.76
1:A:616:ASN:ND2	1:A:626:MET:HB3	2.01	0.76
1:B:789:TYR:CE2	1:B:799:PRO:HG3	2.21	0.76
1:D:938:ALA:O	1:D:942:ILE:HG12	1.85	0.76
1:C:415:ASN:HD22	1:C:434:SER:HB3	1.49	0.76
1:D:156:ASN:HD21	1:D:768:LYS:HZ1	1.33	0.76
1:F:980:PHE:CD2	1:F:1009:MET:HG3	2.21	0.76
1:D:237:LYS:HD2	1:E:730:ILE:HD11	1.67	0.75
1:D:419:VAL:HG23	1:D:430:ALA:HB1	1.66	0.75
1:E:789:TYR:CE2	1:E:799:PRO:HG3	2.21	0.75
1:A:578:THR:CG2	1:A:579:PRO:HD2	2.17	0.75
1:B:753:TRP:HZ2	1:B:785:LEU:HA	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:534:ILE:O	1:D:538:ARG:HB3	1.86	0.75
1:A:90:ILE:HD12	1:A:91:THR:N	2.01	0.75
1:C:524:THR:HG22	1:C:970:LEU:HD12	1.68	0.75
1:E:293:LEU:HD23	1:E:302:THR:HG21	1.67	0.75
1:A:156:ASN:HD21	1:A:768:LYS:HZ1	1.33	0.75
1:C:485:ALA:HA	1:C:489:THR:CG2	2.16	0.75
1:F:524:THR:HG22	1:F:970:LEU:HD12	1.68	0.75
1:E:428:ARG:H	1:E:428:ARG:HD2	1.51	0.75
1:E:964:GLU:O	1:E:968:MET:HG3	1.86	0.75
1:D:757:TYR:CE2	1:D:769:ARG:HB3	2.21	0.75
1:B:190:PRO:HG3	1:B:788:TRP:CZ2	2.22	0.75
1:C:376:LEU:HD22	1:C:398:MET:HE2	1.67	0.75
1:C:699:ARG:HH11	1:C:699:ARG:CG	1.93	0.75
1:D:453:PHE:CD2	1:D:474:ILE:HD11	2.21	0.75
1:A:680:PHE:CE2	1:A:858:TRP:HZ3	2.04	0.75
1:C:980:PHE:CD2	1:C:1009:MET:HG3	2.22	0.75
1:B:278:ASN:HB2	1:B:613:THR:HG22	1.69	0.74
1:F:376:LEU:HD22	1:F:398:MET:HE2	1.68	0.74
1:F:938:ALA:O	1:F:942:ILE:HG23	1.84	0.74
1:D:273:GLN:CD	1:D:769:ARG:HD2	2.11	0.74
1:A:827:LEU:HD12	1:A:827:LEU:O	1.87	0.74
1:F:943:LEU:HD13	1:F:973:ILE:HG22	1.68	0.74
1:A:682:LEU:HD21	1:A:856:TYR:HB2	1.67	0.74
1:A:723:GLU:HG3	1:A:813:PRO:HG3	1.69	0.74
1:D:682:LEU:HD21	1:D:856:TYR:HB2	1.69	0.74
1:B:602:GLU:OE2	1:B:650:ARG:HD2	1.88	0.74
1:B:751:ILE:HG21	1:B:772:LEU:HD13	1.68	0.74
1:E:753:TRP:HZ2	1:E:785:LEU:HA	1.52	0.74
1:F:566:ASP:HB3	1:F:645:PHE:CZ	2.23	0.74
1:B:470:PHE:O	1:B:474:ILE:HG23	1.88	0.74
1:C:943:LEU:HD13	1:C:973:ILE:HG22	1.70	0.74
1:A:671:VAL:HG13	1:A:672:LEU:N	2.02	0.74
1:B:293:LEU:HD23	1:B:302:THR:HG21	1.70	0.74
1:B:614:GLY:HA2	1:B:621:GLY:O	1.86	0.74
1:D:918:ARG:HH21	1:D:1003:THR:HB	1.52	0.74
1:F:548:ILE:HD11	1:F:906:LEU:HD23	1.69	0.74
1:F:578:THR:HG22	1:F:623:SER:HB2	1.70	0.74
1:B:45:VAL:HB	1:B:90:ILE:HG23	1.68	0.73
1:F:980:PHE:HD2	1:F:1009:MET:HG3	1.52	0.73
1:C:544:ILE:HG12	1:C:1019:TRP:CH2	2.23	0.73
1:D:637:ARG:N	1:D:638:PRO:HD3	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:186:ILE:HD11	1:E:772:LEU:HG	1.69	0.73
1:E:470:PHE:O	1:E:474:ILE:HG23	1.88	0.73
1:F:563:PHE:O	1:F:923:ASP:HB2	1.89	0.73
1:A:318:PRO:HD2	1:A:321:MET:CE	2.17	0.73
1:B:964:GLU:O	1:B:968:MET:HG3	1.88	0.73
1:C:434:SER:O	1:C:438:ILE:HG12	1.87	0.73
1:C:980:PHE:HD2	1:C:1009:MET:HG3	1.52	0.73
1:A:259:GLN:H	1:A:259:GLN:HE21	1.36	0.73
1:A:448:VAL:HG22	1:A:886:CYS:HB3	1.70	0.73
1:A:527:TYR:O	1:A:531:VAL:HG23	1.87	0.73
1:A:637:ARG:N	1:A:638:PRO:HD3	2.03	0.73
1:D:498:LYS:H	1:D:499:PRO:HD2	1.53	0.73
1:E:681:ASP:HB3	1:E:827:LEU:HD13	1.69	0.73
1:A:723:GLU:CG	1:A:813:PRO:HG3	2.19	0.73
1:B:58:GLN:O	1:B:63:GLN:HG3	1.89	0.73
1:E:58:GLN:O	1:E:63:GLN:HG3	1.88	0.73
1:E:190:PRO:HG3	1:E:788:TRP:CZ2	2.24	0.73
1:D:405:LEU:HD22	1:D:406:VAL:N	2.03	0.73
1:E:415:ASN:HD22	1:E:434:SER:HB2	1.52	0.73
1:A:451:ALA:HB1	1:A:882:VAL:HG12	1.69	0.73
1:D:742:LEU:H	1:D:742:LEU:HD12	1.54	0.73
1:E:451:ALA:O	1:E:879:SER:HB2	1.88	0.73
1:F:184:MET:HB2	1:F:770:VAL:HG12	1.71	0.73
1:D:451:ALA:HB1	1:D:882:VAL:HG12	1.71	0.73
1:E:278:ASN:HB2	1:E:613:THR:HG22	1.70	0.73
1:B:451:ALA:O	1:B:879:SER:HB2	1.89	0.72
1:C:566:ASP:HB3	1:C:645:PHE:CZ	2.23	0.72
1:D:437:GLN:O	1:D:438:ILE:HG13	1.88	0.72
1:D:574:ALA:HB3	1:D:627:ALA:HB3	1.71	0.72
1:E:78:ILE:HD11	1:E:90:ILE:HD11	1.71	0.72
1:F:434:SER:O	1:F:438:ILE:HG12	1.88	0.72
1:D:680:PHE:CE2	1:D:858:TRP:CZ3	2.77	0.72
1:A:708:GLN:HG3	1:D:807:LYS:HE2	1.72	0.72
1:B:676:ASN:HD21	1:B:827:LEU:HD12	1.52	0.72
1:C:548:ILE:HD11	1:C:906:LEU:HD23	1.69	0.72
1:F:753:TRP:CZ2	1:F:785:LEU:HD23	2.24	0.72
1:C:563:PHE:O	1:C:923:ASP:HB2	1.88	0.72
1:D:448:VAL:HG22	1:D:886:CYS:HB3	1.71	0.72
1:D:578:THR:CG2	1:D:579:PRO:HD2	2.18	0.72
1:A:437:GLN:O	1:A:438:ILE:HG13	1.90	0.72
1:B:615:PHE:HE1	2:B:2033:LMT:H111	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:291:ILE:HD12	1:C:306:ILE:HD12	1.72	0.72
1:C:399:VAL:O	1:C:402:ILE:HG13	1.90	0.72
1:A:742:LEU:H	1:A:742:LEU:HD12	1.55	0.72
1:A:213:GLN:HG3	1:B:56:THR:HG23	1.71	0.72
1:A:498:LYS:H	1:A:499:PRO:HD2	1.53	0.72
1:B:186:ILE:HD11	1:B:772:LEU:HG	1.70	0.72
1:B:229:GLN:HA	1:C:583:SER:HB3	1.72	0.72
1:D:156:ASN:HA	1:D:181:GLN:HA	1.72	0.72
1:C:133:VAL:HG12	1:C:135:ASN:H	1.55	0.72
1:E:940:ASN:O	1:E:944:ILE:HG23	1.90	0.72
1:B:78:ILE:HD11	1:B:90:ILE:HD11	1.70	0.71
1:A:189:ASP:O	1:A:193:LEU:HD23	1.90	0.71
2:B:2031:LMT:H6E	2:B:2031:LMT:O5B	1.91	0.71
1:F:544:ILE:HG12	1:F:1019:TRP:CH2	2.24	0.71
1:A:405:LEU:HD22	1:A:406:VAL:N	2.06	0.71
1:C:138:MET:SD	1:C:291:ILE:HD11	2.30	0.71
1:D:233:THR:HG23	1:E:725:GLN:HG2	1.72	0.71
1:F:580:PRO:HB3	1:F:723:GLU:HG2	1.71	0.71
1:C:184:MET:HB2	1:C:770:VAL:HG12	1.72	0.71
1:C:298:ASN:HB3	1:C:301:ASP:HB2	1.73	0.71
1:C:572:LEU:HD23	1:C:573:PHE:H	1.55	0.71
1:C:753:TRP:CZ2	1:C:785:LEU:HD23	2.25	0.71
1:A:918:ARG:HH21	1:A:1003:THR:HB	1.53	0.71
1:B:847:VAL:HG11	1:B:856:TYR:CD1	2.26	0.71
1:B:891:TYR:CG	1:B:896:ILE:HD11	2.25	0.71
1:C:364:ALA:O	1:C:367:ILE:HG12	1.91	0.71
1:D:723:GLU:CG	1:D:813:PRO:HG3	2.21	0.71
1:A:895:SER:C	1:A:897:PRO:HD2	2.16	0.71
1:D:892:GLU:C	1:F:10:ILE:HD11	2.16	0.71
1:E:228:GLN:HG2	1:F:583:SER:HB2	1.73	0.71
1:B:940:ASN:O	1:B:944:ILE:HG23	1.91	0.71
1:D:213:GLN:HG3	1:E:56:THR:HG23	1.71	0.71
1:E:414:GLU:HG2	1:E:972:PRO:HG3	1.73	0.71
1:E:847:VAL:HG11	1:E:856:TYR:CD1	2.26	0.71
1:F:133:VAL:HG12	1:F:135:ASN:H	1.56	0.71
1:F:291:ILE:HD12	1:F:306:ILE:HD12	1.73	0.71
1:C:578:THR:HG22	1:C:623:SER:HB2	1.71	0.70
1:C:985:VAL:HG23	1:C:986:PRO:HD3	1.73	0.70
1:D:723:GLU:HG3	1:D:813:PRO:HG3	1.72	0.70
1:F:364:ALA:O	1:F:367:ILE:HG12	1.91	0.70
1:F:399:VAL:O	1:F:402:ILE:HG13	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:682:LEU:HD11	1:E:856:TYR:HB2	1.72	0.70
1:E:821:VAL:HG12	1:E:822:PRO:HD2	1.73	0.70
1:B:542:LEU:HG	1:B:1022:LEU:HD11	1.73	0.70
1:B:821:VAL:HG12	1:B:822:PRO:HD2	1.73	0.70
1:E:602:GLU:OE2	1:E:650:ARG:HD2	1.90	0.70
1:A:17:LEU:HD21	2:A:2026:LMT:H61	1.73	0.70
1:B:38:ILE:O	1:B:462:SER:HB3	1.92	0.70
1:A:233:THR:HG23	1:B:725:GLN:HG2	1.72	0.70
1:A:532:ALA:O	1:A:534:ILE:N	2.25	0.70
1:A:535:LEU:CD2	1:A:959:VAL:HG13	2.21	0.70
1:A:671:VAL:HG13	1:A:672:LEU:H	1.57	0.70
1:B:215:SER:HB2	1:C:750:SER:HB2	1.73	0.70
1:C:542:LEU:HD21	1:C:1022:LEU:HD21	1.72	0.70
1:D:32:VAL:HG11	1:D:337:ILE:HD13	1.74	0.70
1:E:987:LEU:HD22	1:E:998:GLN:HB3	1.74	0.70
1:F:298:ASN:HB3	1:F:301:ASP:HB2	1.73	0.70
1:C:364:ALA:HA	1:C:367:ILE:HD11	1.74	0.70
1:D:928:VAL:O	1:D:932:THR:HG23	1.91	0.70
1:E:142:VAL:HG11	1:E:158:ILE:HG21	1.74	0.70
1:A:225:VAL:HG12	1:B:780:MET:HE2	1.74	0.70
1:D:17:LEU:HD21	2:D:2026:LMT:H52	1.74	0.70
1:F:364:ALA:HA	1:F:367:ILE:HD11	1.72	0.70
1:B:4:PHE:O	1:B:8:ARG:HG3	1.92	0.70
1:B:560:PRO:HB2	1:B:921:SER:CB	2.22	0.70
1:C:47:VAL:HB	1:C:127:ILE:HG23	1.74	0.70
1:C:580:PRO:HB3	1:C:723:GLU:HG2	1.72	0.70
1:D:535:LEU:CD2	1:D:959:VAL:HG13	2.22	0.70
1:F:572:LEU:HD23	1:F:573:PHE:H	1.57	0.70
1:D:203:VAL:HG12	1:D:207:ILE:HD11	1.74	0.69
1:F:542:LEU:HD21	1:F:1022:LEU:HD21	1.74	0.69
1:B:142:VAL:HG11	1:B:158:ILE:HG21	1.73	0.69
1:B:987:LEU:HD22	1:B:998:GLN:HB3	1.74	0.69
1:D:532:ALA:O	1:D:534:ILE:N	2.25	0.69
1:F:472:ILE:HD13	1:F:472:ILE:N	2.07	0.69
1:A:680:PHE:CE2	1:A:858:TRP:CZ3	2.80	0.69
1:B:929:GLY:O	1:B:932:THR:HG22	1.92	0.69
1:F:47:VAL:HG12	1:F:88:MET:HE3	1.74	0.69
1:A:32:VAL:HG11	1:A:337:ILE:HD13	1.75	0.69
1:E:38:ILE:O	1:E:462:SER:HB3	1.93	0.69
1:A:574:ALA:HB3	1:A:627:ALA:HB3	1.75	0.69
1:A:928:VAL:O	1:A:932:THR:HG23	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:402:ILE:HA	1:B:405:LEU:HB2	1.74	0.69
2:B:2033:LMT:H62	2:B:2033:LMT:H122	1.73	0.69
1:A:545:TYR:HB2	1:A:1019:TRP:CZ3	2.28	0.69
1:D:684:LEU:O	1:D:823:ALA:HB1	1.93	0.69
1:D:724:PRO:HA	1:D:810:TYR:HB2	1.75	0.69
1:D:904:VAL:HB	1:D:905:PRO:HD3	1.73	0.69
1:E:133:VAL:HG23	1:E:135:ASN:OD1	1.93	0.69
1:E:971:ARG:HB3	1:E:972:PRO:HD3	1.75	0.69
1:F:910:GLY:HA3	1:F:1011:THR:CG2	2.23	0.69
1:A:568:ASP:HB3	1:A:634:TRP:HZ3	1.55	0.69
1:C:561:THR:HG23	1:C:837:GLY:HA3	1.75	0.69
1:C:910:GLY:HA3	1:C:1011:THR:CG2	2.22	0.69
1:D:225:VAL:HG12	1:E:780:MET:HE2	1.75	0.69
1:D:568:ASP:HB3	1:D:634:TRP:HZ3	1.54	0.69
1:E:4:PHE:O	1:E:8:ARG:HG3	1.92	0.69
1:E:402:ILE:HA	1:E:405:LEU:HB2	1.75	0.69
1:E:560:PRO:HB2	1:E:921:SER:CB	2.21	0.69
1:E:742:LEU:O	1:E:745:ILE:HG22	1.92	0.69
1:A:538:ARG:HA	1:A:541:TYR:HD1	1.57	0.69
1:C:520:PHE:HA	1:C:523:THR:HG22	1.75	0.69
1:D:194:ASN:ND2	1:D:797:MET:HG2	2.08	0.69
1:D:680:PHE:HE2	1:D:858:TRP:CZ3	2.09	0.69
2:E:2032:LMT:H5B	2:E:2032:LMT:H6D	1.75	0.69
1:D:300:LEU:HD21	1:D:333:VAL:HB	1.74	0.69
1:F:47:VAL:HB	1:F:127:ILE:HG23	1.73	0.69
1:F:96:GLN:NE2	1:F:462:SER:HB3	2.07	0.69
1:A:134:LYS:HD3	1:A:672:LEU:C	2.18	0.68
1:A:634:TRP:CD1	1:A:634:TRP:N	2.62	0.68
1:D:527:TYR:O	1:D:531:VAL:HG23	1.93	0.68
1:A:157:TYR:CG	1:A:321:MET:HE1	2.28	0.68
1:A:724:PRO:HA	1:A:810:TYR:HB2	1.73	0.68
1:E:88:MET:HG2	1:E:89:THR:N	2.08	0.68
1:E:158:ILE:HA	1:E:162:ILE:HG12	1.76	0.68
1:B:414:GLU:HG2	1:B:972:PRO:HG3	1.74	0.68
1:C:472:ILE:HD13	1:C:472:ILE:N	2.09	0.68
1:C:830:PRO:HB3	1:C:839:ALA:HB2	1.73	0.68
1:D:634:TRP:CD1	1:D:634:TRP:N	2.61	0.68
1:E:428:ARG:CB	1:E:432:ARG:HH21	2.05	0.68
1:F:818:TYR:HH	1:F:825:GLU:HB2	1.59	0.68
1:F:830:PRO:HB3	1:F:839:ALA:HB2	1.74	0.68
1:C:1016:ALA:O	1:C:1020:VAL:HG23	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:442:LEU:CD2	1:E:445:ILE:HD11	2.22	0.68
1:E:817:ARG:HG3	1:E:817:ARG:NH1	2.01	0.68
1:F:966:CYS:SG	1:F:1021:PRO:HG3	2.34	0.68
1:F:985:VAL:HG23	1:F:986:PRO:HD3	1.74	0.68
1:A:280:GLN:HB2	1:A:284:SER:O	1.94	0.68
1:D:538:ARG:HA	1:D:541:TYR:HD1	1.58	0.68
1:E:895:SER:C	1:E:897:PRO:HD2	2.19	0.68
1:E:929:GLY:O	1:E:932:THR:HG22	1.92	0.68
1:F:138:MET:SD	1:F:291:ILE:HD11	2.33	0.68
1:F:682:LEU:HD11	1:F:843:VAL:HG11	1.75	0.68
2:A:2026:LMT:O2'	2:A:2026:LMT:H11	1.93	0.68
2:B:2031:LMT:H6E	2:B:2031:LMT:C5B	2.23	0.68
1:C:545:TYR:HB2	1:C:1019:TRP:CZ3	2.29	0.68
1:B:959:VAL:O	1:B:963:ILE:HG22	1.94	0.68
1:A:47:VAL:HG22	1:A:48:SER:H	1.59	0.68
1:D:545:TYR:HB2	1:D:1019:TRP:CZ3	2.28	0.68
1:E:47:VAL:HG13	1:E:127:ILE:HA	1.75	0.68
1:E:637:ARG:HB2	1:E:642:ASN:HB3	1.76	0.68
1:A:578:THR:HG23	1:A:579:PRO:HD2	1.76	0.67
1:B:742:LEU:O	1:B:745:ILE:HG22	1.94	0.67
1:F:561:THR:HG23	1:F:837:GLY:HA3	1.74	0.67
1:A:254:ASN:ND2	1:A:258:SER:HB3	2.08	0.67
1:A:300:LEU:HD21	1:A:333:VAL:HB	1.76	0.67
1:A:838:ASP:HA	1:A:842:ALA:HB3	1.77	0.67
1:B:158:ILE:HA	1:B:162:ILE:HG12	1.75	0.67
1:B:228:GLN:HG2	1:C:583:SER:HB2	1.75	0.67
1:F:1016:ALA:O	1:F:1020:VAL:HG23	1.94	0.67
1:A:156:ASN:HD21	1:A:768:LYS:NZ	1.91	0.67
1:A:319:GLN:CD	1:A:319:GLN:H	2.03	0.67
1:A:569:GLN:NE2	1:A:670:SER:HA	2.09	0.67
1:A:904:VAL:HB	1:A:905:PRO:HD3	1.75	0.67
1:D:838:ASP:HA	1:D:842:ALA:HB3	1.76	0.67
1:D:895:SER:C	1:D:897:PRO:HD2	2.18	0.67
1:A:376:LEU:O	1:A:379:THR:HG22	1.95	0.67
1:B:35:TYR:CE1	1:B:392:THR:HG21	2.29	0.67
1:B:88:MET:HG2	1:B:89:THR:N	2.10	0.67
1:B:328:ASP:OD1	1:B:330:THR:HG23	1.95	0.67
1:E:959:VAL:O	1:E:963:ILE:HG22	1.94	0.67
1:A:892:GLU:C	1:C:10:ILE:HD11	2.19	0.67
1:C:356:TYR:HD1	1:C:365:THR:HG21	1.59	0.67
1:F:367:ILE:HG12	1:F:368:PRO:HD3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:350:LEU:HB3	1:C:982:LEU:HD12	1.76	0.67
1:D:280:GLN:HB2	1:D:284:SER:O	1.94	0.67
1:B:435:MET:HE3	1:B:490:PRO:HG3	1.73	0.67
1:E:125:GLN:HE22	1:E:769:ARG:NH1	1.92	0.67
1:E:169:THR:HG21	1:E:309:THR:OG1	1.95	0.67
1:F:520:PHE:HA	1:F:523:THR:HG22	1.75	0.67
1:B:414:GLU:CD	1:B:972:PRO:HG3	2.20	0.67
1:C:554:TRP:O	1:C:557:THR:HG22	1.94	0.67
1:E:186:ILE:HG22	1:E:268:VAL:HG22	1.77	0.67
1:F:356:TYR:HD1	1:F:365:THR:HG21	1.59	0.67
1:F:545:TYR:HB2	1:F:1019:TRP:CZ3	2.30	0.67
1:B:602:GLU:HG3	1:B:650:ARG:NH1	2.10	0.67
1:D:753:TRP:CZ3	1:D:779:ARG:HB3	2.29	0.67
1:A:780:MET:HE3	1:C:225:VAL:HG23	1.77	0.67
1:A:808:TRP:O	1:D:705:LEU:HD22	1.95	0.67
1:D:523:THR:OG1	1:D:524:THR:N	2.28	0.67
1:A:845:GLU:O	1:A:848:LYS:HB3	1.95	0.66
1:B:712:LEU:HD21	1:B:843:VAL:HG23	1.78	0.66
1:C:682:LEU:HD11	1:C:843:VAL:HG11	1.76	0.66
1:D:189:ASP:O	1:D:193:LEU:HD23	1.95	0.66
1:E:35:TYR:CE1	1:E:392:THR:HG21	2.29	0.66
1:E:542:LEU:HG	1:E:1022:LEU:HD11	1.75	0.66
1:F:959:VAL:O	1:F:963:ILE:HG23	1.93	0.66
1:B:47:VAL:HG13	1:B:127:ILE:HA	1.75	0.66
1:C:47:VAL:HG12	1:C:88:MET:HE3	1.76	0.66
1:F:350:LEU:HB3	1:F:982:LEU:HD12	1.76	0.66
1:B:428:ARG:CB	1:B:432:ARG:HH21	2.08	0.66
1:F:554:TRP:O	1:F:557:THR:HG22	1.95	0.66
1:B:14:VAL:HG11	1:C:889:ALA:HB2	1.77	0.66
1:B:472:ILE:HD11	2:B:2031:LMT:H61	1.78	0.66
1:C:648:ALA:HB1	1:C:714:ARG:HH12	1.61	0.66
1:A:317:MET:HE2	1:A:321:MET:HG3	1.78	0.66
1:C:218:GLN:HA	1:C:234:ILE:HG23	1.75	0.66
1:D:193:LEU:CD2	1:D:265:VAL:HG13	2.26	0.66
1:D:680:PHE:CD1	1:D:828:GLY:O	2.46	0.66
1:F:43:ILE:HD11	1:F:107:VAL:HB	1.78	0.66
1:A:400:LEU:HD12	1:A:470:PHE:HZ	1.60	0.66
1:B:442:LEU:CD2	1:B:445:ILE:HD11	2.25	0.66
1:C:96:GLN:NE2	1:C:462:SER:HB3	2.10	0.66
1:D:400:LEU:HD12	1:D:470:PHE:HZ	1.60	0.66
1:B:72:ILE:HD11	1:B:75:LEU:HD13	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:615:PHE:CE1	2:B:2033:LMT:H111	2.31	0.66
1:D:213:GLN:HE21	1:D:239:ARG:HG2	1.61	0.66
1:D:695:LEU:CD1	1:D:699:ARG:HH21	2.08	0.66
1:F:339:GLU:O	1:F:343:THR:HG22	1.95	0.66
1:F:891:TYR:CB	1:F:896:ILE:HD11	2.26	0.66
1:A:254:ASN:HD21	1:A:258:SER:HB3	1.60	0.66
1:A:710:PRO:HD3	1:D:807:LYS:HE3	1.77	0.66
1:A:810:TYR:OH	1:D:701:LYS:HG2	1.96	0.66
2:D:2026:LMT:H6D	2:D:2026:LMT:O5B	1.96	0.66
1:F:372:VAL:HB	1:F:373:PRO:HD3	1.78	0.66
1:A:810:TYR:CE2	1:D:701:LYS:HE3	2.31	0.66
1:B:753:TRP:CZ2	1:B:785:LEU:HG	2.31	0.66
1:D:47:VAL:HG22	1:D:48:SER:H	1.61	0.66
1:B:637:ARG:HB2	1:B:642:ASN:HB3	1.77	0.65
1:C:367:ILE:HG12	1:C:368:PRO:HD3	1.78	0.65
1:D:723:GLU:O	1:D:810:TYR:HB2	1.97	0.65
1:A:170:LYS:HZ2	1:B:74:ASN:H	1.44	0.65
1:C:15:ILE:O	1:C:19:ILE:HG23	1.96	0.65
1:E:712:LEU:HD21	1:E:843:VAL:HG23	1.77	0.65
1:A:684:LEU:O	1:A:823:ALA:HB1	1.96	0.65
1:A:753:TRP:CZ3	1:A:779:ARG:HB3	2.30	0.65
1:B:169:THR:HG21	1:B:309:THR:OG1	1.96	0.65
1:B:186:ILE:HG22	1:B:268:VAL:HG22	1.78	0.65
1:B:895:SER:C	1:B:897:PRO:HD2	2.21	0.65
1:D:941:ALA:O	1:D:945:VAL:HG12	1.97	0.65
1:A:213:GLN:HE21	1:A:239:ARG:HG2	1.61	0.65
1:A:563:PHE:O	1:A:564:LEU:HB2	1.97	0.65
1:C:111:LEU:C	1:C:113:LEU:H	2.04	0.65
1:C:683:PHE:O	1:C:856:TYR:HA	1.97	0.65
1:D:563:PHE:O	1:D:564:LEU:HB2	1.96	0.65
1:E:414:GLU:CD	1:E:972:PRO:HG3	2.21	0.65
2:E:2033:LMT:H71	2:E:2033:LMT:H111	1.78	0.65
1:A:808:TRP:CH2	1:D:708:GLN:HB3	2.31	0.65
1:C:80:SER:OG	1:C:817:ARG:HB2	1.96	0.65
1:C:247:GLU:HB3	1:C:263:LYS:HG2	1.79	0.65
1:D:908:VAL:O	1:D:911:ALA:HB3	1.96	0.65
1:E:328:ASP:OD1	1:E:330:THR:HG23	1.95	0.65
1:E:435:MET:HE3	1:E:490:PRO:HG3	1.78	0.65
1:F:80:SER:OG	1:F:817:ARG:HB2	1.96	0.65
1:A:134:LYS:HD3	1:A:672:LEU:HD12	1.78	0.65
1:A:203:VAL:HG12	1:A:207:ILE:HD11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:488:LEU:HD13	1:C:492:LEU:HD11	1.77	0.65
1:C:1011:THR:O	1:C:1015:LEU:HB2	1.97	0.65
1:D:2:SER:O	1:D:6:ILE:HD12	1.96	0.65
1:D:753:TRP:HZ3	1:D:779:ARG:HB3	1.62	0.65
1:C:444:GLY:O	1:C:448:VAL:HG23	1.97	0.65
1:C:445:ILE:HG22	1:C:939:LYS:HG2	1.78	0.65
1:D:578:THR:HG23	1:D:579:PRO:HD2	1.78	0.65
1:D:845:GLU:O	1:D:848:LYS:HB3	1.97	0.65
1:A:695:LEU:CD1	1:A:699:ARG:HH21	2.09	0.65
1:A:875:LEU:C	1:A:875:LEU:HD12	2.21	0.65
1:B:420:MET:HE3	1:B:427:PRO:HA	1.79	0.65
1:C:162:ILE:C	1:C:165:PRO:HD2	2.22	0.65
1:D:241:GLN:HG3	1:D:762:ILE:O	1.96	0.65
1:F:683:PHE:O	1:F:856:TYR:HA	1.97	0.65
1:C:959:VAL:O	1:C:963:ILE:HG23	1.97	0.65
1:E:602:GLU:HG3	1:E:650:ARG:NH1	2.11	0.65
1:A:569:GLN:CD	1:A:670:SER:HA	2.22	0.65
1:D:329:THR:O	1:D:332:VAL:HG12	1.97	0.65
1:E:420:MET:HE3	1:E:427:PRO:HA	1.78	0.65
1:F:162:ILE:C	1:F:165:PRO:HD2	2.21	0.65
1:A:302:THR:O	1:A:306:ILE:HG23	1.97	0.64
1:A:969:ARG:O	1:A:973:ILE:HG12	1.97	0.64
1:B:125:GLN:HE22	1:B:769:ARG:NH1	1.94	0.64
1:B:391:ASN:HD22	1:B:393:LEU:H	1.45	0.64
1:B:718:ASN:HB2	1:B:827:LEU:HD23	1.79	0.64
1:C:339:GLU:O	1:C:343:THR:HG22	1.96	0.64
1:C:966:CYS:SG	1:C:1021:PRO:HG3	2.36	0.64
1:D:996:GLY:N	1:D:999:HIS:HD2	1.95	0.64
1:E:215:SER:HB2	1:F:750:SER:HB2	1.80	0.64
1:F:648:ALA:HB1	1:F:714:ARG:HH12	1.63	0.64
1:B:478:MET:O	1:B:482:VAL:HG23	1.97	0.64
1:E:757:TYR:CE1	1:E:769:ARG:HG3	2.32	0.64
1:A:893:SER:OG	1:A:896:ILE:HG23	1.97	0.64
1:D:893:SER:OG	1:D:896:ILE:HG23	1.97	0.64
1:F:969:ARG:O	1:F:973:ILE:HG23	1.97	0.64
1:A:157:TYR:OH	1:A:317:MET:HG2	1.96	0.64
1:A:723:GLU:O	1:A:810:TYR:HB2	1.97	0.64
1:A:726:TYR:CZ	1:A:782:PRO:HB3	2.32	0.64
1:C:332:VAL:HG11	1:C:569:GLN:HG2	1.80	0.64
1:D:302:THR:O	1:D:306:ILE:HG23	1.97	0.64
1:D:376:LEU:O	1:D:379:THR:HG22	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:910:GLY:HA3	1:F:1011:THR:HG21	1.79	0.64
1:C:251:LEU:HD12	1:C:265:VAL:HG21	1.80	0.64
1:E:718:ASN:HB2	1:E:827:LEU:HD23	1.78	0.64
1:A:43:ILE:HG21	1:A:107:VAL:HG11	1.80	0.64
1:A:48:SER:O	1:A:125:GLN:HG2	1.98	0.64
1:B:757:TYR:CE1	1:B:769:ARG:HG3	2.33	0.64
1:C:699:ARG:NE	1:C:824:MET:HG2	2.13	0.64
1:D:150:THR:HG22	1:D:153:ASP:CG	2.23	0.64
1:F:111:LEU:C	1:F:113:LEU:H	2.04	0.64
1:F:683:PHE:CE2	1:F:818:TYR:CZ	2.86	0.64
1:C:910:GLY:HA3	1:C:1011:THR:HG21	1.78	0.64
1:F:472:ILE:H	1:F:472:ILE:CD1	2.11	0.64
1:F:488:LEU:HD13	1:F:492:LEU:HD11	1.79	0.64
1:A:342:LYS:O	1:A:346:GLU:HG3	1.97	0.64
1:A:680:PHE:HE2	1:A:858:TRP:CZ3	2.14	0.64
1:C:43:ILE:HD11	1:C:107:VAL:HB	1.78	0.64
1:D:48:SER:O	1:D:125:GLN:HG2	1.97	0.64
1:E:72:ILE:HD11	1:E:75:LEU:HD13	1.80	0.64
1:E:753:TRP:CZ2	1:E:785:LEU:HG	2.32	0.64
1:A:241:GLN:HG3	1:A:762:ILE:O	1.97	0.64
1:D:875:LEU:C	1:D:875:LEU:HD12	2.23	0.64
1:A:669:PRO:HB2	1:A:671:VAL:HG12	1.79	0.64
1:C:891:TYR:CB	1:C:896:ILE:HD11	2.27	0.64
1:C:903:VAL:HG21	1:C:1020:VAL:HG22	1.80	0.64
1:D:780:MET:SD	1:F:228:GLN:HG3	2.37	0.64
1:E:104:GLN:NE2	1:E:131:LYS:HE2	2.12	0.64
1:F:818:TYR:OH	1:F:825:GLU:HB2	1.97	0.64
1:C:818:TYR:OH	1:C:825:GLU:HB2	1.98	0.63
1:C:969:ARG:O	1:C:972:PRO:HD2	1.98	0.63
1:D:602:GLU:HG3	1:D:647:LEU:HD21	1.80	0.63
1:B:386:PHE:CE2	2:B:2031:LMT:H81	2.33	0.63
1:B:971:ARG:HB3	1:B:972:PRO:HD3	1.78	0.63
1:F:247:GLU:HB3	1:F:263:LYS:HG2	1.80	0.63
1:F:332:VAL:HG11	1:F:569:GLN:HG2	1.80	0.63
1:F:896:ILE:HB	1:F:945:VAL:HG11	1.80	0.63
1:A:941:ALA:O	1:A:945:VAL:HG12	1.97	0.63
1:C:683:PHE:CE2	1:C:818:TYR:CZ	2.86	0.63
1:E:971:ARG:O	1:E:975:MET:HG2	1.98	0.63
1:A:523:THR:OG1	1:A:524:THR:N	2.28	0.63
1:B:164:ASP:HB2	1:C:67:GLN:NE2	2.12	0.63
1:D:247:GLU:HA	1:D:262:LEU:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:14:VAL:HG11	1:F:889:ALA:HB2	1.81	0.63
1:F:213:GLN:HE21	1:F:239:ARG:HB2	1.64	0.63
1:D:43:ILE:HG21	1:D:107:VAL:HG11	1.79	0.63
1:D:170:LYS:HZ2	1:E:74:ASN:H	1.46	0.63
1:E:47:VAL:H	1:E:88:MET:HE2	1.63	0.63
1:F:361:ASN:O	1:F:365:THR:HG22	1.99	0.63
1:F:445:ILE:HG22	1:F:939:LYS:HG2	1.81	0.63
1:A:193:LEU:CD2	1:A:265:VAL:HG13	2.29	0.63
1:B:104:GLN:NE2	1:B:131:LYS:HE2	2.13	0.63
1:B:718:ASN:HB2	1:B:827:LEU:CD2	2.28	0.63
1:E:466:ILE:HD11	1:E:924:VAL:HG21	1.81	0.63
1:F:963:ILE:HG13	1:F:964:GLU:N	2.14	0.63
1:F:969:ARG:O	1:F:972:PRO:HD2	1.99	0.63
1:B:541:TYR:HA	1:B:544:ILE:HG23	1.80	0.63
1:F:699:ARG:NE	1:F:824:MET:HG2	2.14	0.63
1:A:908:VAL:O	1:A:911:ALA:HB3	1.99	0.63
1:D:726:TYR:CZ	1:D:782:PRO:HB3	2.34	0.63
1:F:218:GLN:HA	1:F:234:ILE:HG23	1.80	0.63
1:A:680:PHE:CD1	1:A:828:GLY:O	2.47	0.63
1:B:527:TYR:CE2	1:B:966:CYS:HB3	2.33	0.63
1:C:361:ASN:O	1:C:365:THR:HG22	1.99	0.63
1:E:229:GLN:HA	1:F:583:SER:HB3	1.80	0.63
1:F:15:ILE:O	1:F:19:ILE:HG23	1.99	0.63
1:A:188:LEU:HD23	1:A:266:ALA:HB2	1.81	0.62
1:C:372:VAL:HB	1:C:373:PRO:HD3	1.81	0.62
1:D:342:LYS:O	1:D:346:GLU:HG3	1.99	0.62
1:D:528:GLU:OE2	1:D:967:ARG:CZ	2.47	0.62
1:A:602:GLU:HG3	1:A:647:LEU:HD21	1.81	0.62
1:D:985:VAL:HA	1:D:1006:ILE:HD11	1.81	0.62
1:E:49:TYR:CE1	1:E:121:GLU:HG3	2.34	0.62
1:B:47:VAL:H	1:B:88:MET:HE2	1.64	0.62
1:D:156:ASN:HD21	1:D:768:LYS:NZ	1.96	0.62
1:E:478:MET:O	1:E:482:VAL:HG23	1.99	0.62
1:A:996:GLY:N	1:A:999:HIS:HD2	1.97	0.62
1:B:424:GLY:HA3	1:B:502:LYS:HG2	1.81	0.62
1:C:896:ILE:HB	1:C:945:VAL:HG11	1.81	0.62
1:C:969:ARG:O	1:C:973:ILE:HG23	1.98	0.62
1:D:416:VAL:HG12	1:D:420:MET:HE2	1.81	0.62
1:D:789:TYR:CE2	1:D:799:PRO:HG3	2.34	0.62
1:E:541:TYR:HA	1:E:544:ILE:HG23	1.81	0.62
1:F:359:LEU:HD12	1:F:365:THR:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1011:THR:O	1:F:1015:LEU:HB2	2.00	0.62
1:A:753:TRP:HZ3	1:A:779:ARG:HB3	1.63	0.62
1:B:847:VAL:HG13	1:B:850:LEU:HD12	1.82	0.62
1:C:43:ILE:HD11	1:C:107:VAL:CB	2.29	0.62
1:C:213:GLN:HE21	1:C:239:ARG:HB2	1.64	0.62
1:C:472:ILE:H	1:C:472:ILE:CD1	2.13	0.62
1:E:520:PHE:HA	1:E:523:THR:CG2	2.29	0.62
1:F:682:LEU:O	1:F:683:PHE:CD2	2.53	0.62
1:A:176:GLN:HE21	1:A:178:PHE:HE1	1.48	0.62
1:A:519:MET:O	1:A:523:THR:HG23	1.99	0.62
1:A:789:TYR:CE2	1:A:799:PRO:HG3	2.33	0.62
1:E:527:TYR:CE2	1:E:966:CYS:HB3	2.34	0.62
1:E:718:ASN:HB2	1:E:827:LEU:CD2	2.28	0.62
1:F:63:GLN:HE22	1:F:67:GLN:HE21	1.48	0.62
1:F:903:VAL:HG21	1:F:1020:VAL:HG22	1.82	0.62
1:A:365:THR:O	1:A:369:THR:HG23	2.00	0.62
1:A:985:VAL:HA	1:A:1006:ILE:HD11	1.81	0.62
1:B:303:ALA:CB	1:B:330:THR:HG21	2.30	0.62
1:C:944:ILE:HG13	1:C:945:VAL:N	2.13	0.62
1:A:355:MET:HG3	1:A:365:THR:HG23	1.82	0.62
1:B:390:ILE:HA	1:B:394:THR:HG21	1.81	0.62
1:C:63:GLN:HE22	1:C:67:GLN:HE21	1.47	0.62
1:E:391:ASN:HD22	1:E:393:LEU:H	1.48	0.62
1:F:738:LEU:HD12	1:F:803:PHE:CZ	2.35	0.62
1:D:367:ILE:HD11	1:D:413:VAL:HG22	1.82	0.62
1:E:745:ILE:O	1:E:748:THR:HG22	1.99	0.62
1:F:447:MET:CE	1:F:886:CYS:HB3	2.26	0.62
1:A:417:GLU:HA	1:A:420:MET:HE3	1.82	0.62
1:A:65:ILE:HD11	1:A:90:ILE:HG21	1.80	0.61
1:B:49:TYR:CE1	1:B:121:GLU:HG3	2.34	0.61
1:C:572:LEU:HD23	1:C:573:PHE:N	2.15	0.61
1:C:742:LEU:HB3	1:C:746:ASN:HD21	1.64	0.61
1:D:906:LEU:HD23	1:D:906:LEU:H	1.64	0.61
1:E:303:ALA:CB	1:E:330:THR:HG21	2.30	0.61
1:E:469:GLN:O	1:E:473:THR:HG22	2.00	0.61
1:A:329:THR:O	1:A:332:VAL:HG12	1.98	0.61
1:B:410:ILE:CD1	1:B:976:THR:HG22	2.25	0.61
1:B:616:ASN:HB3	1:B:618:ALA:H	1.64	0.61
1:D:535:LEU:HD23	1:D:959:VAL:HG13	1.82	0.61
1:F:47:VAL:HG12	1:F:88:MET:CE	2.30	0.61
1:F:738:LEU:HD12	1:F:803:PHE:HZ	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:742:LEU:HB3	1:F:746:ASN:HD21	1.65	0.61
1:A:183:SER:HB2	1:A:769:ARG:O	2.00	0.61
1:A:622:GLN:HE21	1:C:222:LEU:HG	1.66	0.61
1:C:971:ARG:HB2	1:C:972:PRO:HD3	1.82	0.61
1:E:424:GLY:HA3	1:E:502:LYS:HG2	1.81	0.61
1:F:251:LEU:HD12	1:F:265:VAL:HG21	1.80	0.61
1:F:281:PHE:CE2	1:F:324:VAL:HG11	2.35	0.61
1:A:428:ARG:HH12	1:A:432:ARG:HE	1.48	0.61
1:A:794:LYS:HD3	1:A:795:GLY:H	1.65	0.61
1:D:2:SER:O	1:D:6:ILE:CD1	2.49	0.61
1:E:616:ASN:HB3	1:E:618:ALA:H	1.65	0.61
1:A:1016:ALA:O	1:A:1020:VAL:HG23	2.01	0.61
1:C:573:PHE:HE2	1:C:668:PRO:HG3	1.65	0.61
1:A:528:GLU:OE2	1:A:967:ARG:CZ	2.48	0.61
1:A:538:ARG:O	1:A:539:ALA:CB	2.49	0.61
1:B:589:VAL:HA	1:B:592:ASP:HB2	1.82	0.61
1:C:10:ILE:HA	1:C:13:TRP:HB2	1.83	0.61
1:C:47:VAL:HG12	1:C:88:MET:CE	2.30	0.61
1:C:544:ILE:O	1:C:548:ILE:HG23	2.01	0.61
1:C:963:ILE:HG13	1:C:964:GLU:N	2.15	0.61
1:D:188:LEU:HD23	1:D:266:ALA:HB2	1.81	0.61
1:D:428:ARG:HH12	1:D:432:ARG:HE	1.47	0.61
1:E:847:VAL:HG13	1:E:850:LEU:HD12	1.82	0.61
1:F:652:GLN:HG3	1:F:714:ARG:HD2	1.82	0.61
1:B:958:ILE:HD13	1:B:958:ILE:N	2.15	0.61
1:D:280:GLN:HG2	1:D:595:ARG:HH21	1.65	0.61
1:D:337:ILE:HG13	1:D:338:HIS:N	2.16	0.61
1:D:365:THR:O	1:D:369:THR:HG23	2.00	0.61
1:E:414:GLU:CG	1:E:972:PRO:HG3	2.31	0.61
1:F:43:ILE:HD11	1:F:107:VAL:CB	2.31	0.61
1:A:451:ALA:HB1	1:A:882:VAL:CG1	2.29	0.61
1:B:453:PHE:CE2	1:B:474:ILE:HD11	2.35	0.61
1:C:359:LEU:HD12	1:C:365:THR:HA	1.82	0.61
1:C:738:LEU:HD12	1:C:803:PHE:HZ	1.65	0.61
1:C:910:GLY:H	1:C:1011:THR:HG21	1.66	0.61
1:E:958:ILE:HD13	1:E:958:ILE:N	2.16	0.61
1:A:337:ILE:HG13	1:A:338:HIS:N	2.15	0.61
1:A:538:ARG:CB	1:A:1022:LEU:HD21	2.30	0.61
1:C:115:THR:HB	1:C:116:PRO:HD3	1.83	0.61
1:C:445:ILE:CG2	1:C:939:LYS:HG2	2.30	0.61
1:C:738:LEU:HD12	1:C:803:PHE:CZ	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:749:VAL:HG13	1:D:753:TRP:HD1	1.66	0.61
1:E:38:ILE:HA	1:E:465:VAL:HG11	1.82	0.61
1:A:30:LEU:HD21	1:A:384:ALA:HA	1.82	0.61
1:A:119:PRO:O	1:A:122:VAL:HG12	2.01	0.61
1:A:535:LEU:HD23	1:A:959:VAL:HG13	1.83	0.61
1:A:880:LEU:HD11	1:A:904:VAL:HG21	1.83	0.61
1:B:156:ASN:HD21	1:B:768:LYS:HZ3	1.49	0.61
1:E:589:VAL:HA	1:E:592:ASP:HB2	1.81	0.61
1:A:367:ILE:HD11	1:A:413:VAL:HG22	1.82	0.60
1:A:569:GLN:N	1:A:634:TRP:CH2	2.69	0.60
1:A:896:ILE:N	1:A:897:PRO:HD2	2.16	0.60
1:B:469:GLN:O	1:B:473:THR:HG22	2.01	0.60
1:C:652:GLN:HG3	1:C:714:ARG:HD2	1.83	0.60
1:C:682:LEU:O	1:C:683:PHE:CD2	2.54	0.60
1:D:451:ALA:HB1	1:D:882:VAL:CG1	2.31	0.60
1:D:622:GLN:HE21	1:F:222:LEU:HG	1.66	0.60
1:D:1016:ALA:O	1:D:1020:VAL:HG23	2.01	0.60
1:E:157:TYR:O	1:E:161:ASN:HB2	2.01	0.60
1:F:115:THR:HB	1:F:116:PRO:HD3	1.82	0.60
1:A:83:ASN:ND2	1:A:620:ARG:HG2	2.16	0.60
1:A:203:VAL:O	1:A:204:SER:C	2.44	0.60
1:B:745:ILE:O	1:B:748:THR:HG22	2.01	0.60
1:C:166:LEU:O	1:C:169:THR:HG22	2.01	0.60
1:F:573:PHE:HE2	1:F:668:PRO:HG3	1.64	0.60
1:A:13:TRP:NE1	2:A:2026:LMT:H11	2.16	0.60
1:A:166:LEU:HG	1:A:291:ILE:HD11	1.84	0.60
1:A:280:GLN:HG2	1:A:595:ARG:HH21	1.65	0.60
1:A:416:VAL:HG12	1:A:420:MET:HE2	1.83	0.60
1:A:521:LEU:O	1:A:521:LEU:HD13	2.01	0.60
1:A:537:HIS:O	1:A:538:ARG:O	2.19	0.60
1:D:538:ARG:CB	1:D:1022:LEU:HD21	2.30	0.60
1:D:538:ARG:O	1:D:539:ALA:CB	2.50	0.60
1:D:569:GLN:N	1:D:634:TRP:CH2	2.68	0.60
1:E:115:THR:HB	1:E:116:PRO:HD3	1.82	0.60
1:A:749:VAL:HG13	1:A:753:TRP:HD1	1.67	0.60
1:A:906:LEU:HD23	1:A:906:LEU:H	1.64	0.60
1:C:281:PHE:CE2	1:C:324:VAL:HG11	2.36	0.60
1:D:30:LEU:HD21	1:D:384:ALA:HA	1.83	0.60
1:D:83:ASN:ND2	1:D:620:ARG:HG2	2.16	0.60
1:D:242:THR:HG22	1:D:245:GLN:NE2	2.16	0.60
1:E:410:ILE:CD1	1:E:976:THR:HG22	2.25	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1020:VAL:HB	1:E:1021:PRO:HD3	1.82	0.60
1:A:753:TRP:CZ2	1:A:785:LEU:HG	2.36	0.60
1:B:414:GLU:CG	1:B:972:PRO:HG3	2.31	0.60
1:B:1020:VAL:HB	1:B:1021:PRO:HD3	1.82	0.60
1:C:906:LEU:HD22	1:C:1015:LEU:HD12	1.83	0.60
1:A:7:ASP:O	1:A:9:PRO:HD3	2.01	0.60
1:A:150:THR:HG22	1:A:153:ASP:CG	2.26	0.60
1:A:541:TYR:HA	1:A:544:ILE:CG2	2.32	0.60
1:A:706:ALA:CB	1:A:846:ILE:HD13	2.30	0.60
1:D:472:ILE:HA	1:D:475:VAL:HG13	1.84	0.60
1:D:880:LEU:HD11	1:D:904:VAL:HG21	1.84	0.60
1:E:156:ASN:HD21	1:E:768:LYS:NZ	2.00	0.60
1:E:199:THR:HG23	1:E:200:PRO:HD2	1.83	0.60
1:F:358:PHE:CG	1:F:975:MET:HG2	2.36	0.60
1:F:683:PHE:CZ	1:F:818:TYR:CE2	2.90	0.60
1:F:907:GLY:HA2	1:F:1011:THR:HG23	1.83	0.60
1:F:910:GLY:H	1:F:1011:THR:HG21	1.65	0.60
1:A:753:TRP:CZ2	1:A:785:LEU:HA	2.36	0.60
1:B:520:PHE:HA	1:B:523:THR:CG2	2.32	0.60
1:B:591:VAL:HA	1:B:594:MET:HG3	1.83	0.60
1:D:7:ASP:O	1:D:9:PRO:HD3	2.02	0.60
1:F:906:LEU:HD22	1:F:1015:LEU:HD12	1.82	0.60
1:D:65:ILE:HD11	1:D:90:ILE:HG21	1.83	0.60
1:F:444:GLY:O	1:F:448:VAL:HG23	2.00	0.60
1:F:703:LEU:HA	1:F:706:ALA:HB3	1.83	0.60
1:F:944:ILE:HG13	1:F:945:VAL:N	2.16	0.60
1:B:966:CYS:SG	1:B:1021:PRO:CG	2.89	0.60
1:B:971:ARG:O	1:B:975:MET:HG2	2.02	0.60
1:C:575:GLN:NE2	1:C:617:PHE:HB2	2.17	0.60
1:D:372:VAL:HB	1:D:373:PRO:HD3	1.83	0.60
1:D:537:HIS:O	1:D:538:ARG:O	2.19	0.60
1:A:655:PHE:HB3	1:A:663:VAL:HB	1.84	0.60
1:C:907:GLY:HA2	1:C:1011:THR:HG23	1.84	0.60
1:D:541:TYR:HA	1:D:544:ILE:CG2	2.32	0.60
1:E:390:ILE:HA	1:E:394:THR:HG21	1.83	0.60
1:F:544:ILE:O	1:F:548:ILE:HG23	2.01	0.60
1:B:190:PRO:HG3	1:B:788:TRP:CE2	2.37	0.59
1:B:199:THR:HG23	1:B:200:PRO:HD2	1.83	0.59
1:B:930:LEU:O	1:B:934:ILE:HG23	2.02	0.59
1:D:119:PRO:O	1:D:122:VAL:HG12	2.01	0.59
1:F:10:ILE:HA	1:F:13:TRP:HB2	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:115:THR:HB	1:B:116:PRO:HD3	1.84	0.59
1:B:371:ALA:O	1:B:375:VAL:HG23	2.02	0.59
1:B:878:LEU:HD13	2:B:2032:LMT:H31	1.84	0.59
1:D:17:LEU:CD2	2:D:2026:LMT:H81	2.32	0.59
1:A:242:THR:HG22	1:A:245:GLN:HG3	1.84	0.59
1:A:472:ILE:HA	1:A:475:VAL:HG13	1.84	0.59
1:A:884:PHE:HB2	1:A:901:MET:HE2	1.85	0.59
1:E:453:PHE:CE2	1:E:474:ILE:HD11	2.36	0.59
1:E:520:PHE:CA	1:E:523:THR:HG22	2.31	0.59
1:F:330:THR:HG22	1:F:331:PRO:HD3	1.84	0.59
1:B:187:TRP:HA	1:B:773:GLN:O	2.02	0.59
1:D:203:VAL:O	1:D:204:SER:C	2.45	0.59
1:D:519:MET:O	1:D:523:THR:HG23	2.03	0.59
1:E:930:LEU:O	1:E:934:ILE:HG23	2.01	0.59
1:A:791:ARG:HB2	1:A:797:MET:CE	2.30	0.59
1:B:669:PRO:HD2	1:B:672:LEU:HD12	1.83	0.59
1:D:523:THR:O	1:D:525:HIS:N	2.35	0.59
1:D:616:ASN:HD22	1:D:626:MET:HB3	1.65	0.59
1:D:896:ILE:N	1:D:897:PRO:HD2	2.17	0.59
1:F:572:LEU:HD23	1:F:573:PHE:N	2.15	0.59
1:A:748:THR:HG21	1:A:790:VAL:HG22	1.83	0.59
1:D:196:TYR:H	1:D:196:TYR:HD2	1.51	0.59
1:E:224:ALA:HB1	1:F:780:MET:SD	2.42	0.59
1:A:568:ASP:HB3	1:A:634:TRP:CH2	2.37	0.59
1:C:703:LEU:HA	1:C:706:ALA:HB3	1.84	0.59
1:D:193:LEU:HD22	1:D:265:VAL:HG13	1.84	0.59
1:F:445:ILE:CG2	1:F:939:LYS:HG2	2.32	0.59
1:F:452:VAL:HG22	1:F:883:VAL:HG21	1.85	0.59
1:F:985:VAL:O	1:F:989:ILE:HG12	2.02	0.59
1:A:150:THR:H	1:A:153:ASP:HB2	1.68	0.59
1:A:273:GLN:NE2	1:A:769:ARG:HH11	2.01	0.59
1:A:402:ILE:HA	1:A:405:LEU:CD1	2.33	0.59
1:D:139:VAL:O	1:D:326:PRO:HD2	2.02	0.59
1:D:751:ILE:HG21	1:D:772:LEU:HD13	1.83	0.59
1:D:753:TRP:CZ2	1:D:785:LEU:HA	2.38	0.59
1:E:156:ASN:HD22	1:E:182:TYR:N	2.00	0.59
1:E:966:CYS:SG	1:E:1021:PRO:CG	2.90	0.59
1:F:575:GLN:NE2	1:F:617:PHE:HB2	2.17	0.59
1:A:139:VAL:HG12	1:A:327:TYR:HB3	1.84	0.59
1:B:156:ASN:HD21	1:B:768:LYS:NZ	2.00	0.59
1:B:576:VAL:HG21	1:B:591:VAL:HG22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:985:VAL:O	1:C:989:ILE:HG12	2.03	0.59
1:D:139:VAL:HG12	1:D:327:TYR:HB3	1.83	0.59
1:D:699:ARG:CZ	1:D:824:MET:HG3	2.32	0.59
1:D:739:GLY:HA3	1:D:793:ASP:HB2	1.84	0.59
1:A:699:ARG:CZ	1:A:824:MET:HG3	2.32	0.58
1:A:966:CYS:SG	1:A:1021:PRO:CG	2.90	0.58
1:C:520:PHE:C	1:C:522:SER:H	2.11	0.58
1:D:417:GLU:HA	1:D:420:MET:HE3	1.84	0.58
1:D:568:ASP:HB3	1:D:634:TRP:CH2	2.38	0.58
1:E:190:PRO:HG3	1:E:788:TRP:CE2	2.38	0.58
1:E:576:VAL:HG22	1:E:663:VAL:HG22	1.84	0.58
1:A:337:ILE:HG13	1:A:338:HIS:H	1.68	0.58
1:A:523:THR:O	1:A:525:HIS:N	2.36	0.58
1:B:38:ILE:HA	1:B:465:VAL:HG11	1.85	0.58
1:C:186:ILE:HG22	1:C:268:VAL:HG22	1.85	0.58
1:C:683:PHE:CZ	1:C:818:TYR:CE2	2.90	0.58
1:D:166:LEU:HG	1:D:291:ILE:HD11	1.85	0.58
1:D:951:LEU:O	1:D:956:LYS:HB2	2.03	0.58
1:E:187:TRP:HA	1:E:773:GLN:O	2.02	0.58
1:E:861:LEU:O	1:E:865:GLU:HG2	2.03	0.58
1:F:144:SER:HA	1:F:320:GLY:O	2.03	0.58
1:C:425:LEU:HD22	1:C:429:GLU:HB2	1.85	0.58
1:D:183:SER:HB2	1:D:769:ARG:O	2.03	0.58
1:D:355:MET:HG3	1:D:365:THR:HG23	1.83	0.58
1:D:655:PHE:HB3	1:D:663:VAL:HB	1.84	0.58
1:E:58:GLN:HA	1:E:62:VAL:HB	1.84	0.58
1:E:657:SER:O	1:E:658:PHE:C	2.46	0.58
1:F:49:TYR:HE1	1:F:121:GLU:HG3	1.69	0.58
1:F:939:LYS:HZ1	1:F:976:THR:HG22	1.69	0.58
1:D:283:GLY:HA2	1:D:595:ARG:HE	1.68	0.58
1:D:966:CYS:SG	1:D:1021:PRO:CG	2.91	0.58
1:E:907:GLY:CA	1:E:1012:ALA:HB2	2.34	0.58
1:A:616:ASN:HD22	1:A:626:MET:HB3	1.64	0.58
1:B:657:SER:O	1:B:658:PHE:C	2.46	0.58
1:C:138:MET:HB2	1:C:327:TYR:O	2.04	0.58
1:C:141:GLY:HA2	1:C:288:GLY:HA3	1.86	0.58
1:D:150:THR:H	1:D:153:ASP:HB2	1.68	0.58
1:D:337:ILE:HG13	1:D:338:HIS:H	1.69	0.58
1:B:58:GLN:HA	1:B:62:VAL:HB	1.84	0.58
1:B:520:PHE:CA	1:B:523:THR:HG22	2.33	0.58
1:C:109:ASN:HA	1:C:112:GLN:NE2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:150:THR:HG22	1:C:153:ASP:OD2	2.03	0.58
1:C:242:THR:HG22	1:C:245:GLN:HG3	1.86	0.58
1:C:480:LEU:O	1:C:484:VAL:HG23	2.04	0.58
1:D:521:LEU:HD13	1:D:521:LEU:O	2.04	0.58
1:D:884:PHE:HB2	1:D:901:MET:HE2	1.84	0.58
1:E:591:VAL:HA	1:E:594:MET:HG3	1.84	0.58
1:A:483:ILE:HG13	1:A:487:ILE:HD13	1.86	0.58
1:A:751:ILE:HG21	1:A:772:LEU:HD13	1.86	0.58
1:B:305:ALA:C	1:B:307:ARG:H	2.10	0.58
1:B:366:LEU:HB3	1:B:496:MET:HE1	1.85	0.58
1:C:49:TYR:HE1	1:C:121:GLU:HG3	1.69	0.58
1:C:452:VAL:HG22	1:C:883:VAL:HG21	1.86	0.58
1:D:175:PHE:HB2	1:D:289:ILE:HD11	1.86	0.58
1:D:622:GLN:NE2	1:F:222:LEU:HG	2.18	0.58
1:E:184:MET:HE2	1:E:268:VAL:HG13	1.86	0.58
1:E:391:ASN:H	1:E:394:THR:CG2	2.16	0.58
1:F:520:PHE:C	1:F:522:SER:H	2.12	0.58
1:A:181:GLN:HG3	1:A:768:LYS:HZ3	1.68	0.58
1:A:203:VAL:O	1:A:206:ALA:N	2.32	0.58
1:A:372:VAL:HB	1:A:373:PRO:HD3	1.85	0.58
1:A:951:LEU:O	1:A:956:LYS:HB2	2.03	0.58
1:B:156:ASN:HD22	1:B:182:TYR:N	2.02	0.58
1:D:242:THR:HG22	1:D:245:GLN:HG3	1.84	0.58
1:E:115:THR:O	1:E:118:LEU:HB2	2.04	0.58
1:A:538:ARG:C	1:A:540:PRO:HD2	2.29	0.58
1:D:57:VAL:HG13	1:D:88:MET:HB3	1.86	0.58
1:D:402:ILE:HA	1:D:405:LEU:CD1	2.33	0.58
1:E:305:ALA:C	1:E:307:ARG:H	2.10	0.58
1:E:910:GLY:H	1:E:1011:THR:HG21	1.69	0.58
1:A:283:GLY:HA2	1:A:595:ARG:HE	1.69	0.57
1:B:188:LEU:HA	1:B:266:ALA:HB2	1.86	0.57
1:C:190:PRO:HA	1:C:193:LEU:HD12	1.86	0.57
1:C:757:TYR:CE1	1:C:769:ARG:HD3	2.39	0.57
1:D:524:THR:HG22	1:D:970:LEU:HD12	1.86	0.57
2:E:2032:LMT:H42	2:E:2032:LMT:H82	1.86	0.57
1:A:197:GLN:CB	1:A:797:MET:HE3	2.34	0.57
1:A:242:THR:HG22	1:A:245:GLN:NE2	2.14	0.57
1:D:753:TRP:CZ2	1:D:785:LEU:HG	2.38	0.57
1:E:185:ARG:HD2	1:E:272:GLY:O	2.04	0.57
1:E:541:TYR:HA	1:E:544:ILE:CG2	2.35	0.57
1:A:727:LYS:HD3	1:A:728:LEU:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:861:LEU:O	1:B:865:GLU:HG2	2.04	0.57
1:D:262:LEU:HD11	1:D:266:ALA:N	2.19	0.57
1:E:953:GLU:C	1:E:955:GLY:H	2.12	0.57
1:F:186:ILE:HG22	1:F:268:VAL:HG22	1.86	0.57
1:B:94:PHE:CE2	1:B:103:ALA:HB1	2.40	0.57
1:D:251:LEU:HD12	1:D:251:LEU:N	2.19	0.57
1:E:559:ILE:HD12	1:E:560:PRO:HD2	1.87	0.57
1:F:80:SER:CB	1:F:90:ILE:HG22	2.34	0.57
1:F:166:LEU:O	1:F:169:THR:HG22	2.05	0.57
1:A:404:LEU:HD22	1:A:936:LEU:HD23	1.86	0.57
1:C:80:SER:CB	1:C:90:ILE:HG22	2.34	0.57
1:C:479:ALA:O	1:C:482:VAL:HG12	2.04	0.57
1:D:404:LEU:HD22	1:D:936:LEU:HD23	1.87	0.57
1:D:893:SER:N	1:F:10:ILE:HD11	2.19	0.57
1:D:900:VAL:HG13	1:D:941:ALA:HB3	1.87	0.57
1:E:701:LYS:O	1:E:705:LEU:HB2	2.05	0.57
1:F:138:MET:HB2	1:F:327:TYR:O	2.03	0.57
1:F:150:THR:HG22	1:F:153:ASP:OD2	2.04	0.57
1:F:203:VAL:O	1:F:207:ILE:HG13	2.05	0.57
1:B:541:TYR:HA	1:B:544:ILE:CG2	2.34	0.57
1:B:907:GLY:CA	1:B:1012:ALA:HB2	2.35	0.57
1:C:932:THR:O	1:C:936:LEU:HG	2.03	0.57
1:E:695:LEU:HD13	1:E:824:MET:HG3	1.85	0.57
1:F:393:LEU:CD1	1:F:466:ILE:HB	2.34	0.57
1:A:157:TYR:CZ	1:A:317:MET:HG2	2.40	0.57
1:A:367:ILE:HG12	1:A:368:PRO:HD3	1.86	0.57
1:B:155:SER:O	1:B:159:VAL:HG23	2.05	0.57
1:B:910:GLY:H	1:B:1011:THR:HG21	1.69	0.57
1:B:958:ILE:HG12	1:B:959:VAL:N	2.20	0.57
1:C:181:GLN:OE1	1:C:766:ARG:NH1	2.37	0.57
1:C:447:MET:CE	1:C:886:CYS:HB3	2.26	0.57
1:C:478:MET:O	1:C:481:SER:HB3	2.05	0.57
1:D:969:ARG:O	1:D:973:ILE:HG12	2.04	0.57
1:E:188:LEU:HA	1:E:266:ALA:HB2	1.86	0.57
1:F:568:ASP:CG	1:F:644:VAL:HG23	2.29	0.57
1:A:831:ALA:O	1:A:834:LEU:HB2	2.04	0.57
1:B:185:ARG:HD2	1:B:272:GLY:O	2.04	0.57
1:B:453:PHE:CD2	1:B:474:ILE:HD11	2.39	0.57
1:C:939:LYS:HZ1	1:C:976:THR:HG22	1.70	0.57
1:D:350:LEU:O	1:D:354:VAL:HG23	2.05	0.57
1:D:538:ARG:C	1:D:540:PRO:HD2	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:116:PRO:HA	1:E:123:GLN:HE22	1.69	0.57
1:F:141:GLY:HA2	1:F:288:GLY:HA3	1.87	0.57
1:A:524:THR:O	1:A:527:TYR:HB3	2.05	0.57
1:A:539:ALA:HB3	1:A:540:PRO:HD3	1.87	0.57
1:B:466:ILE:HD11	1:B:924:VAL:HG21	1.85	0.57
1:C:393:LEU:CD1	1:C:466:ILE:HB	2.34	0.57
1:D:228:GLN:HE21	1:D:230:LEU:N	2.01	0.57
1:E:44:ALA:HB2	1:E:132:ALA:HB2	1.87	0.57
1:E:881:LEU:O	1:E:881:LEU:HD22	2.05	0.57
1:F:43:ILE:CD1	1:F:104:GLN:HA	2.35	0.57
1:A:57:VAL:HG13	1:A:88:MET:HB3	1.86	0.57
1:A:139:VAL:O	1:A:326:PRO:HD2	2.04	0.57
1:A:659:LYS:HD2	1:A:660:ASP:N	2.20	0.57
1:C:144:SER:HA	1:C:320:GLY:O	2.04	0.57
1:C:568:ASP:CG	1:C:644:VAL:HG23	2.30	0.57
1:D:688:ALA:O	1:D:689:GLY:C	2.48	0.57
1:E:577:GLN:OE1	1:E:720:MET:HG2	2.05	0.57
1:F:109:ASN:HA	1:F:112:GLN:NE2	2.20	0.57
1:B:115:THR:O	1:B:118:LEU:HB2	2.05	0.56
1:C:27:ILE:HD11	1:C:380:PHE:CD1	2.39	0.56
1:C:341:VAL:HG22	1:C:395:MET:HE2	1.87	0.56
1:D:573:PHE:HB2	1:D:666:PHE:CE2	2.40	0.56
1:E:94:PHE:CE2	1:E:103:ALA:HB1	2.40	0.56
1:E:281:PHE:CZ	1:E:324:VAL:HG11	2.39	0.56
1:A:298:ASN:O	1:A:302:THR:HG22	2.05	0.56
1:A:453:PHE:CE2	1:A:474:ILE:HD11	2.39	0.56
1:A:695:LEU:HD13	1:A:699:ARG:HH21	1.70	0.56
1:B:281:PHE:CZ	1:B:324:VAL:HG11	2.40	0.56
1:B:391:ASN:H	1:B:394:THR:CG2	2.16	0.56
1:D:176:GLN:HE21	1:D:178:PHE:HE1	1.52	0.56
1:E:35:TYR:HE1	1:E:392:THR:HG21	1.70	0.56
1:E:164:ASP:HB2	1:F:67:GLN:NE2	2.20	0.56
1:F:573:PHE:CE2	1:F:668:PRO:HG3	2.41	0.56
1:A:175:PHE:HB2	1:A:289:ILE:HD11	1.86	0.56
1:A:555:MET:SD	1:A:913:LEU:HD23	2.45	0.56
1:B:102:ILE:C	1:B:102:ILE:HD12	2.29	0.56
1:B:157:TYR:O	1:B:161:ASN:HB2	2.05	0.56
1:B:313:LEU:O	1:B:317:MET:HG3	2.05	0.56
1:B:363:ARG:HD3	1:B:496:MET:O	2.04	0.56
1:B:386:PHE:CZ	2:B:2031:LMT:H81	2.39	0.56
1:B:695:LEU:HD13	1:B:824:MET:HG3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:60:THR:HG23	1:C:61:VAL:HG23	1.85	0.56
1:D:162:ILE:HG23	1:D:166:LEU:CD2	2.36	0.56
1:D:262:LEU:HD22	1:D:263:LYS:H	1.70	0.56
1:D:332:VAL:HG21	1:D:569:GLN:HA	1.86	0.56
1:D:533:SER:O	1:D:536:LYS:HG3	2.06	0.56
1:D:652:GLN:HE22	1:D:664:PHE:HD1	1.53	0.56
1:D:996:GLY:H	1:D:999:HIS:HD2	1.54	0.56
1:E:169:THR:O	1:E:172:VAL:HG23	2.05	0.56
1:E:313:LEU:O	1:E:317:MET:HG3	2.05	0.56
1:E:958:ILE:HG12	1:E:959:VAL:N	2.21	0.56
1:F:58:GLN:HA	1:F:62:VAL:HB	1.87	0.56
1:F:138:MET:HE1	1:F:306:ILE:HG13	1.87	0.56
1:F:425:LEU:HD22	1:F:429:GLU:HB2	1.87	0.56
1:A:98:THR:O	1:A:100:PRO:HD3	2.04	0.56
1:C:358:PHE:CG	1:C:975:MET:HG2	2.40	0.56
1:D:15:ILE:HD13	1:D:15:ILE:C	2.29	0.56
1:D:727:LYS:HD3	1:D:728:LEU:H	1.68	0.56
1:F:896:ILE:HG12	1:F:897:PRO:HD3	1.87	0.56
1:F:910:GLY:N	1:F:1011:THR:HG21	2.20	0.56
1:A:193:LEU:HD22	1:A:265:VAL:HG13	1.86	0.56
1:A:352:PHE:CD1	1:A:369:THR:HG21	2.37	0.56
1:A:594:MET:O	1:A:595:ARG:C	2.49	0.56
1:C:203:VAL:O	1:C:207:ILE:HG13	2.05	0.56
1:D:339:GLU:O	1:D:343:THR:HG23	2.06	0.56
1:D:1008:GLY:O	1:D:1012:ALA:HB2	2.06	0.56
1:E:363:ARG:HD3	1:E:496:MET:O	2.05	0.56
1:F:910:GLY:CA	1:F:1011:THR:HG21	2.36	0.56
1:F:971:ARG:HB2	1:F:972:PRO:HD3	1.86	0.56
1:A:332:VAL:HG21	1:A:569:GLN:HA	1.87	0.56
1:A:365:THR:O	1:A:368:PRO:HD2	2.06	0.56
1:B:231:ASN:HD21	1:C:584:ALA:H	1.54	0.56
1:D:343:THR:HG21	1:D:998:GLN:OE1	2.05	0.56
1:D:478:MET:O	1:D:481:SER:HB3	2.05	0.56
1:D:659:LYS:HD2	1:D:660:ASP:N	2.20	0.56
1:E:871:GLN:HA	2:E:2032:LMT:O2B	2.06	0.56
1:F:939:LYS:NZ	1:F:976:THR:CG2	2.69	0.56
1:A:142:VAL:HG12	1:A:154:LEU:HD22	1.87	0.56
1:A:478:MET:O	1:A:481:SER:HB3	2.06	0.56
1:A:545:TYR:HB2	1:A:1019:TRP:HZ3	1.70	0.56
1:B:1015:LEU:O	1:B:1019:TRP:HD1	1.89	0.56
1:C:396:PHE:CE2	1:C:998:GLN:HG2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:910:GLY:CA	1:C:1011:THR:HG21	2.35	0.56
1:D:203:VAL:O	1:D:206:ALA:N	2.31	0.56
1:D:453:PHE:CE2	1:D:474:ILE:HD11	2.41	0.56
1:E:151:LYS:HZ1	1:E:278:ASN:HB3	1.71	0.56
1:E:1015:LEU:O	1:E:1019:TRP:HD1	1.89	0.56
1:F:190:PRO:HG3	1:F:788:TRP:CZ2	2.40	0.56
1:F:559:ILE:HD11	1:F:922:ASN:HB2	1.86	0.56
1:F:779:ARG:O	1:F:779:ARG:HD2	2.06	0.56
1:A:339:GLU:O	1:A:343:THR:HG23	2.05	0.56
1:A:688:ALA:O	1:A:689:GLY:C	2.48	0.56
1:B:686:ASP:HB2	1:B:690:VAL:HG12	1.86	0.56
1:C:109:ASN:HA	1:C:112:GLN:CD	2.30	0.56
1:C:910:GLY:N	1:C:1011:THR:HG21	2.20	0.56
1:C:945:VAL:HG23	1:C:1020:VAL:HG12	1.88	0.56
1:D:524:THR:O	1:D:527:TYR:HB3	2.05	0.56
1:E:102:ILE:C	1:E:102:ILE:HD12	2.31	0.56
1:E:371:ALA:O	1:E:375:VAL:HG23	2.04	0.56
1:E:817:ARG:HD2	1:E:822:PRO:HA	1.88	0.56
1:F:242:THR:HG22	1:F:245:GLN:HG3	1.86	0.56
1:F:712:LEU:N	1:F:712:LEU:HD23	2.21	0.56
1:A:222:LEU:HD23	1:B:622:GLN:NE2	2.21	0.56
1:A:350:LEU:O	1:A:354:VAL:HG23	2.06	0.56
1:A:622:GLN:NE2	1:C:222:LEU:HG	2.20	0.56
1:A:699:ARG:NH1	1:A:824:MET:HE2	2.21	0.56
1:A:900:VAL:HG13	1:A:941:ALA:HB3	1.88	0.56
1:D:538:ARG:C	1:D:538:ARG:HE	2.13	0.56
1:A:637:ARG:N	1:A:638:PRO:CD	2.69	0.56
1:A:800:PHE:CD2	1:A:804:ALA:HB2	2.37	0.56
1:B:211:ASN:HD21	1:B:240:LEU:H	1.54	0.56
1:B:479:ALA:O	1:B:483:ILE:HG22	2.05	0.56
1:B:612:VAL:HG11	1:B:615:PHE:HD2	1.71	0.56
1:C:904:VAL:HB	1:C:905:PRO:HD3	1.88	0.56
1:D:162:ILE:HG23	1:D:166:LEU:HD23	1.88	0.56
1:D:637:ARG:N	1:D:638:PRO:CD	2.68	0.56
1:E:782:PRO:O	1:E:785:LEU:HB2	2.06	0.56
1:F:109:ASN:HA	1:F:112:GLN:CD	2.31	0.56
1:F:396:PHE:CE2	1:F:998:GLN:HG2	2.41	0.56
1:A:15:ILE:HD13	1:A:15:ILE:C	2.31	0.55
1:A:184:MET:HE3	1:A:243:ALA:HA	1.89	0.55
1:A:950:GLU:O	1:A:953:GLU:HG3	2.05	0.55
1:C:330:THR:HG22	1:C:331:PRO:HD3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:367:ILE:HG12	1:D:368:PRO:HD3	1.86	0.55
1:D:594:MET:O	1:D:595:ARG:C	2.49	0.55
1:E:155:SER:O	1:E:159:VAL:HG23	2.06	0.55
1:E:445:ILE:HG22	1:E:942:ILE:HD12	1.89	0.55
1:F:314:GLU:HA	1:F:317:MET:SD	2.47	0.55
1:F:479:ALA:O	1:F:482:VAL:HG12	2.06	0.55
1:F:757:TYR:CE1	1:F:769:ARG:HD3	2.40	0.55
1:A:196:TYR:H	1:A:196:TYR:HD2	1.52	0.55
1:A:590:VAL:HG11	1:A:661:ALA:HB3	1.88	0.55
1:A:695:LEU:CD1	1:A:699:ARG:NH2	2.69	0.55
1:C:559:ILE:HD11	1:C:922:ASN:HB2	1.89	0.55
1:C:573:PHE:CE2	1:C:668:PRO:HG3	2.40	0.55
1:C:638:PRO:HD2	1:C:642:ASN:ND2	2.22	0.55
1:D:1001:ILE:HG23	1:D:1002:GLY:N	2.20	0.55
1:E:454:LEU:HD11	2:E:2031:LMT:H101	1.88	0.55
1:F:367:ILE:CG2	1:F:492:LEU:HB3	2.36	0.55
1:A:726:TYR:CE1	1:A:782:PRO:HB3	2.42	0.55
1:A:909:ILE:C	1:A:911:ALA:H	2.14	0.55
1:B:380:PHE:HZ	1:B:395:MET:HE1	1.71	0.55
1:B:576:VAL:HG22	1:B:663:VAL:HG22	1.88	0.55
1:B:701:LYS:O	1:B:705:LEU:HB2	2.06	0.55
1:B:782:PRO:O	1:B:785:LEU:HB2	2.06	0.55
1:C:367:ILE:CG2	1:C:492:LEU:HB3	2.36	0.55
1:C:896:ILE:HG12	1:C:897:PRO:HD3	1.86	0.55
1:D:195:SER:C	1:D:197:GLN:H	2.15	0.55
1:D:298:ASN:O	1:D:302:THR:HG22	2.06	0.55
1:D:363:ARG:O	1:D:367:ILE:HG22	2.06	0.55
1:D:809:GLU:O	1:D:810:TYR:HB3	2.05	0.55
1:E:453:PHE:CD2	1:E:474:ILE:HD11	2.40	0.55
1:F:980:PHE:CE2	1:F:1005:VAL:HG13	2.42	0.55
1:A:196:TYR:HD1	1:A:260:VAL:HG21	1.71	0.55
1:A:680:PHE:CD2	1:A:858:TRP:HZ3	2.25	0.55
1:C:43:ILE:HD11	1:C:107:VAL:CG2	2.37	0.55
1:D:352:PHE:CD1	1:D:369:THR:HG21	2.37	0.55
1:D:950:GLU:O	1:D:953:GLU:HG3	2.07	0.55
1:E:24:GLY:O	1:E:27:ILE:HG12	2.07	0.55
1:E:366:LEU:HB3	1:E:496:MET:HE1	1.89	0.55
1:E:380:PHE:HZ	1:E:395:MET:HE1	1.72	0.55
1:E:479:ALA:O	1:E:483:ILE:HG22	2.05	0.55
1:E:739:GLY:HA3	1:E:793:ASP:HB2	1.89	0.55
1:E:977:SER:O	1:E:981:ILE:HG23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:80:SER:HB2	1:F:90:ILE:HG22	1.88	0.55
1:F:699:ARG:NH1	1:F:699:ARG:CG	2.60	0.55
1:A:524:THR:HG22	1:A:970:LEU:HD12	1.87	0.55
1:A:871:GLN:O	1:A:872:ALA:HB2	2.07	0.55
1:A:1001:ILE:HG23	1:A:1002:GLY:N	2.21	0.55
1:B:681:ASP:C	1:B:681:ASP:OD1	2.48	0.55
1:C:925:PHE:HD2	1:C:1001:ILE:HG23	1.71	0.55
1:D:699:ARG:NH1	1:D:824:MET:HE2	2.20	0.55
1:F:68:GLN:HG3	1:F:114:ALA:HB2	1.87	0.55
1:B:116:PRO:HA	1:B:123:GLN:HE22	1.71	0.55
1:B:682:LEU:HD11	1:B:856:TYR:HD2	1.72	0.55
1:C:80:SER:HB2	1:C:90:ILE:HG22	1.87	0.55
1:D:695:LEU:CD1	1:D:699:ARG:NH2	2.69	0.55
1:D:930:LEU:O	1:D:934:ILE:HG23	2.05	0.55
1:D:1015:LEU:O	1:D:1019:TRP:HD1	1.90	0.55
1:F:60:THR:HG23	1:F:61:VAL:HG23	1.87	0.55
1:F:143:VAL:HG13	1:F:286:ALA:HB2	1.88	0.55
1:F:159:VAL:HG12	1:F:159:VAL:O	2.05	0.55
1:F:818:TYR:HD1	1:F:823:ALA:HB3	1.70	0.55
1:A:228:GLN:HE21	1:A:230:LEU:N	2.02	0.55
1:B:35:TYR:HE1	1:B:392:THR:HG21	1.71	0.55
1:B:242:THR:HG23	1:B:245:GLN:HG3	1.88	0.55
1:C:402:ILE:HD12	1:C:403:GLY:N	2.22	0.55
1:D:539:ALA:HB3	1:D:540:PRO:HD3	1.88	0.55
1:D:690:VAL:HG22	1:D:694:VAL:CG2	2.36	0.55
1:D:791:ARG:HA	1:D:797:MET:HE3	1.89	0.55
1:E:576:VAL:HG21	1:E:591:VAL:HG22	1.88	0.55
1:E:612:VAL:HG11	1:E:615:PHE:HD2	1.71	0.55
1:F:157:TYR:CD2	1:F:321:MET:HE1	2.42	0.55
1:A:363:ARG:O	1:A:367:ILE:HG22	2.06	0.55
1:A:843:VAL:O	1:A:847:VAL:HG23	2.06	0.55
1:C:530:GLY:O	1:C:534:ILE:HG23	2.07	0.55
1:D:196:TYR:N	1:D:196:TYR:CD2	2.74	0.55
1:D:273:GLN:NE2	1:D:769:ARG:HH11	2.05	0.55
1:D:909:ILE:C	1:D:911:ALA:H	2.14	0.55
1:E:458:PHE:HA	2:E:2031:LMT:H11	1.88	0.55
1:A:573:PHE:HB2	1:A:666:PHE:CE2	2.41	0.55
1:B:184:MET:HE2	1:B:268:VAL:HG13	1.88	0.55
1:B:420:MET:HE3	1:B:427:PRO:CA	2.36	0.55
1:C:314:GLU:HA	1:C:317:MET:SD	2.47	0.55
1:D:578:THR:HG22	1:D:579:PRO:HD2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:552:MET:HG3	1:E:553:ILE:N	2.22	0.55
1:F:184:MET:HG3	1:F:246:PHE:CE1	2.42	0.55
1:F:638:PRO:HD2	1:F:642:ASN:ND2	2.22	0.55
1:A:533:SER:O	1:A:536:LYS:HG3	2.07	0.55
1:C:712:LEU:N	1:C:712:LEU:HD23	2.21	0.55
1:D:843:VAL:O	1:D:847:VAL:HG23	2.07	0.55
1:D:851:PRO:O	1:D:854:VAL:HG12	2.07	0.55
1:F:925:PHE:HD2	1:F:1001:ILE:HG23	1.72	0.55
1:A:186:ILE:HG13	1:A:262:LEU:HD21	1.89	0.54
1:B:169:THR:O	1:B:172:VAL:HG23	2.06	0.54
1:B:739:GLY:HA3	1:B:793:ASP:HB2	1.89	0.54
1:C:157:TYR:CD2	1:C:321:MET:HE1	2.42	0.54
1:C:326:PRO:HB3	1:C:610:PHE:HB2	1.89	0.54
1:C:575:GLN:NE2	1:C:666:PHE:HZ	2.05	0.54
1:C:818:TYR:HD1	1:C:823:ALA:HB3	1.71	0.54
1:C:977:SER:O	1:C:981:ILE:HG12	2.06	0.54
1:D:47:VAL:HG22	1:D:48:SER:N	2.22	0.54
1:D:161:ASN:O	1:D:165:PRO:HD2	2.08	0.54
1:D:498:LYS:N	1:D:499:PRO:CD	2.62	0.54
1:D:590:VAL:HG11	1:D:661:ALA:HB3	1.88	0.54
1:D:725:GLN:HG3	1:D:811:GLY:H	1.73	0.54
1:E:351:VAL:O	1:E:355:MET:HB2	2.07	0.54
1:E:549:VAL:O	1:E:552:MET:HG2	2.07	0.54
1:F:943:LEU:CD1	1:F:973:ILE:HG22	2.37	0.54
1:A:902:LEU:HD23	1:A:1023:PHE:CE1	2.42	0.54
1:B:559:ILE:HD12	1:B:560:PRO:HD2	1.89	0.54
1:D:146:ASP:C	1:D:148:SER:H	2.14	0.54
1:D:483:ILE:HG13	1:D:487:ILE:HD13	1.89	0.54
1:D:607:SER:HB2	1:D:632:LYS:HG2	1.88	0.54
1:D:807:LYS:HG3	1:D:808:TRP:H	1.72	0.54
1:E:48:SER:N	2:E:2033:LMT:O3B	2.40	0.54
1:E:211:ASN:HD21	1:E:240:LEU:H	1.55	0.54
1:F:142:VAL:HG12	1:F:154:LEU:HD22	1.88	0.54
1:F:190:PRO:HA	1:F:193:LEU:HD12	1.87	0.54
1:F:658:PHE:O	1:F:659:LYS:C	2.50	0.54
1:F:932:THR:O	1:F:936:LEU:HG	2.06	0.54
1:A:375:VAL:CG2	1:A:405:LEU:HG	2.23	0.54
1:B:577:GLN:OE1	1:B:720:MET:HG2	2.07	0.54
1:B:738:LEU:HD13	1:B:798:VAL:HG11	1.90	0.54
1:C:68:GLN:HG3	1:C:114:ALA:HB2	1.89	0.54
1:C:969:ARG:C	1:C:972:PRO:HD2	2.33	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:800:PHE:CD2	1:D:804:ALA:HB2	2.37	0.54
1:E:203:VAL:O	1:E:207:ILE:HG12	2.07	0.54
1:E:683:PHE:CE2	1:E:825:GLU:HB2	2.42	0.54
1:F:530:GLY:O	1:F:534:ILE:HG23	2.06	0.54
1:F:575:GLN:NE2	1:F:666:PHE:HZ	2.05	0.54
1:F:653:MET:HA	1:F:653:MET:HE3	1.89	0.54
1:A:409:ALA:O	1:A:413:VAL:HG23	2.06	0.54
1:C:184:MET:HG3	1:C:246:PHE:CE1	2.42	0.54
1:C:980:PHE:CE2	1:C:1005:VAL:HG13	2.41	0.54
1:D:100:PRO:HB3	1:D:295:THR:HG21	1.90	0.54
1:D:197:GLN:HA	1:D:797:MET:SD	2.47	0.54
1:D:859:THR:HG23	1:D:860:GLY:N	2.22	0.54
1:D:902:LEU:HD23	1:D:1023:PHE:CE1	2.42	0.54
1:E:420:MET:HE3	1:E:427:PRO:CA	2.38	0.54
1:E:595:ARG:HG3	1:E:596:GLU:N	2.22	0.54
1:E:738:LEU:HD13	1:E:798:VAL:HG11	1.89	0.54
1:F:904:VAL:HB	1:F:905:PRO:HD3	1.89	0.54
1:F:945:VAL:HG23	1:F:1020:VAL:HG12	1.88	0.54
1:A:195:SER:C	1:A:197:GLN:H	2.14	0.54
1:A:535:LEU:HD21	1:A:959:VAL:HG13	1.88	0.54
1:A:652:GLN:HE22	1:A:664:PHE:HD1	1.54	0.54
1:A:738:LEU:HD12	1:A:738:LEU:H	1.71	0.54
1:A:792:ASN:ND2	1:A:793:ASP:H	2.04	0.54
1:A:866:ARG:O	1:A:867:LEU:HG	2.06	0.54
1:A:1020:VAL:HB	1:A:1021:PRO:HD3	1.89	0.54
1:B:616:ASN:CG	1:B:624:SER:HB2	2.33	0.54
1:B:1023:PHE:O	1:B:1027:VAL:HG23	2.07	0.54
1:C:142:VAL:HG12	1:C:154:LEU:HD22	1.89	0.54
1:D:738:LEU:HD12	1:D:738:LEU:H	1.72	0.54
1:E:816:GLU:HB2	1:E:823:ALA:O	2.07	0.54
1:F:181:GLN:OE1	1:F:766:ARG:NH1	2.39	0.54
1:A:47:VAL:HG22	1:A:48:SER:N	2.23	0.54
1:A:142:VAL:HB	1:A:158:ILE:HD11	1.89	0.54
1:A:343:THR:HG21	1:A:998:GLN:OE1	2.06	0.54
1:A:416:VAL:O	1:A:420:MET:HB2	2.07	0.54
1:B:11:PHE:CD1	1:C:889:ALA:HB1	2.42	0.54
1:B:203:VAL:O	1:B:207:ILE:HG12	2.07	0.54
1:B:445:ILE:HG22	1:B:942:ILE:HD12	1.88	0.54
1:C:190:PRO:HG3	1:C:788:TRP:CZ2	2.43	0.54
1:D:1020:VAL:HB	1:D:1021:PRO:HD3	1.88	0.54
1:E:43:ILE:HG12	1:E:104:GLN:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:242:THR:HG23	1:E:245:GLN:HG3	1.90	0.54
1:F:281:PHE:O	1:F:282:ASN:HB2	2.08	0.54
1:F:433:LYS:HD2	1:F:437:GLN:NE2	2.22	0.54
1:F:582:SER:HB3	1:F:586:ARG:HD3	1.89	0.54
1:A:1015:LEU:O	1:A:1019:TRP:HD1	1.91	0.54
1:B:43:ILE:HG12	1:B:104:GLN:HA	1.89	0.54
1:C:653:MET:HA	1:C:653:MET:HE3	1.90	0.54
1:A:670:SER:O	1:A:671:VAL:HB	2.08	0.54
1:A:893:SER:N	1:C:10:ILE:HD11	2.23	0.54
1:C:159:VAL:CG2	1:C:177:VAL:HG11	2.33	0.54
1:C:658:PHE:O	1:C:659:LYS:C	2.50	0.54
1:D:249:ILE:HG23	1:D:262:LEU:N	2.23	0.54
1:D:830:PRO:HA	1:D:838:ASP:OD2	2.07	0.54
1:E:108:GLN:HB2	1:E:129:VAL:HG21	1.89	0.54
1:F:214:ILE:CG1	1:F:237:LYS:HB2	2.38	0.54
1:A:189:ASP:OD2	1:A:191:ALA:HB3	2.08	0.54
1:A:577:GLN:NE2	1:A:720:MET:HE3	2.22	0.54
1:B:592:ASP:O	1:B:595:ARG:HG2	2.07	0.54
1:B:904:VAL:O	1:B:908:VAL:HG23	2.07	0.54
1:C:1029:THR:O	1:C:1030:LEU:HD23	2.08	0.54
1:D:142:VAL:HG23	1:D:158:ILE:HD11	1.90	0.54
1:E:293:LEU:CD2	1:E:302:THR:HG21	2.36	0.54
1:E:592:ASP:O	1:E:595:ARG:HG2	2.07	0.54
1:F:402:ILE:HD12	1:F:403:GLY:N	2.23	0.54
1:F:729:GLU:HB2	1:F:805:THR:HG23	1.90	0.54
1:F:977:SER:O	1:F:981:ILE:HG12	2.08	0.54
1:A:531:VAL:O	1:A:532:ALA:O	2.26	0.54
2:A:2026:LMT:H122	2:A:2026:LMT:C8	2.33	0.54
1:B:953:GLU:C	1:B:955:GLY:H	2.16	0.54
1:D:866:ARG:O	1:D:867:LEU:HG	2.06	0.54
1:E:800:PHE:HD2	1:E:804:ALA:HB2	1.73	0.54
1:F:683:PHE:CD2	1:F:818:TYR:CE1	2.97	0.54
1:A:538:ARG:C	1:A:538:ARG:HE	2.17	0.53
1:B:44:ALA:HB2	1:B:132:ALA:HB2	1.89	0.53
1:B:595:ARG:HG3	1:B:596:GLU:N	2.21	0.53
1:C:779:ARG:O	1:C:779:ARG:HD2	2.08	0.53
1:D:184:MET:HE3	1:D:243:ALA:HA	1.90	0.53
1:D:535:LEU:HD21	1:D:959:VAL:HG13	1.90	0.53
1:D:712:LEU:HD21	1:D:842:ALA:CB	2.37	0.53
1:E:891:TYR:CD2	1:E:896:ILE:HD11	2.42	0.53
1:A:213:GLN:CG	1:B:56:THR:HG23	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:423:GLU:HB3	1:A:425:LEU:HD13	1.90	0.53
1:A:710:PRO:O	1:A:831:ALA:CB	2.55	0.53
1:B:761:PHE:HE2	1:B:763:ASP:HB3	1.73	0.53
1:B:904:VAL:HB	1:B:905:PRO:HD3	1.90	0.53
1:C:143:VAL:HG13	1:C:286:ALA:HB2	1.88	0.53
1:D:142:VAL:CG2	1:D:158:ILE:HD11	2.39	0.53
1:D:726:TYR:CE1	1:D:782:PRO:HB3	2.43	0.53
1:D:871:GLN:O	1:D:872:ALA:HB2	2.08	0.53
1:E:635:GLU:H	1:E:635:GLU:CD	2.16	0.53
1:E:981:ILE:HG13	1:E:982:LEU:N	2.23	0.53
1:F:896:ILE:HB	1:F:945:VAL:CG1	2.38	0.53
1:A:807:LYS:HG3	1:A:808:TRP:H	1.74	0.53
1:A:930:LEU:O	1:A:934:ILE:HG23	2.08	0.53
1:A:1008:GLY:O	1:A:1012:ALA:HB2	2.07	0.53
1:B:240:LEU:HA	1:B:245:GLN:HE22	1.74	0.53
1:B:351:VAL:O	1:B:355:MET:HB2	2.09	0.53
1:C:355:MET:SD	1:C:368:PRO:HB2	2.48	0.53
1:C:446:ALA:O	1:C:450:SER:HB2	2.09	0.53
1:D:62:VAL:O	1:D:65:ILE:HD13	2.08	0.53
1:D:367:ILE:CD1	1:D:413:VAL:HG22	2.39	0.53
1:D:585:GLU:O	1:D:589:VAL:HG23	2.08	0.53
2:E:2033:LMT:H62	2:E:2033:LMT:C12	2.33	0.53
1:A:196:TYR:N	1:A:196:TYR:CD2	2.75	0.53
1:B:165:PRO:O	1:B:169:THR:HG23	2.09	0.53
1:C:438:ILE:C	1:C:440:GLY:H	2.16	0.53
1:C:683:PHE:CD2	1:C:818:TYR:CE1	2.96	0.53
1:C:742:LEU:HB3	1:C:746:ASN:ND2	2.23	0.53
1:C:745:ILE:HG22	1:C:790:VAL:HG21	1.91	0.53
1:C:792:ASN:OD1	1:C:798:VAL:HG23	2.08	0.53
1:D:98:THR:O	1:D:100:PRO:HD3	2.08	0.53
1:D:388:PHE:CE2	1:D:472:ILE:HG12	2.43	0.53
1:E:240:LEU:HA	1:E:245:GLN:HE22	1.74	0.53
1:E:391:ASN:H	1:E:394:THR:HG22	1.73	0.53
1:F:792:ASN:OD1	1:F:798:VAL:HG23	2.09	0.53
1:B:62:VAL:CG2	1:B:88:MET:HG3	2.38	0.53
1:B:192:LYS:O	1:B:195:SER:HB3	2.08	0.53
1:C:43:ILE:HD11	1:C:107:VAL:HG21	1.89	0.53
1:C:58:GLN:HA	1:C:62:VAL:HB	1.89	0.53
1:C:138:MET:HE1	1:C:306:ILE:HG13	1.90	0.53
1:C:582:SER:HB3	1:C:586:ARG:HD3	1.90	0.53
1:E:151:LYS:NZ	1:E:278:ASN:HB3	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:156:ASN:HD21	1:E:768:LYS:HZ3	1.55	0.53
1:E:616:ASN:CG	1:E:624:SER:HB2	2.33	0.53
1:F:159:VAL:CG2	1:F:177:VAL:HG11	2.36	0.53
1:F:367:ILE:HG23	1:F:496:MET:HE2	1.90	0.53
1:F:393:LEU:HD13	1:F:466:ILE:HB	1.90	0.53
1:F:433:LYS:HD2	1:F:437:GLN:HE21	1.74	0.53
1:A:251:LEU:HD12	1:A:251:LEU:N	2.24	0.53
1:A:578:THR:HG22	1:A:579:PRO:HD2	1.87	0.53
1:B:635:GLU:H	1:B:635:GLU:CD	2.16	0.53
1:B:676:ASN:ND2	1:B:827:LEU:HD12	2.20	0.53
1:C:45:VAL:HG22	1:C:129:VAL:HG22	1.90	0.53
1:C:579:PRO:HG3	1:C:660:ASP:CG	2.34	0.53
1:C:939:LYS:NZ	1:C:976:THR:CG2	2.71	0.53
1:D:131:LYS:O	1:D:295:THR:HG22	2.09	0.53
1:D:365:THR:O	1:D:368:PRO:HD2	2.09	0.53
1:E:843:VAL:O	1:E:847:VAL:HG23	2.08	0.53
1:E:1014:VAL:O	1:E:1017:ILE:HG12	2.08	0.53
1:F:939:LYS:NZ	1:F:976:THR:HG22	2.23	0.53
1:F:969:ARG:C	1:F:972:PRO:HD2	2.34	0.53
1:A:146:ASP:C	1:A:148:SER:H	2.14	0.53
1:A:366:LEU:O	1:A:370:ILE:HG23	2.08	0.53
1:A:916:SER:O	1:A:917:MET:C	2.52	0.53
1:B:143:VAL:HG12	1:B:286:ALA:CB	2.39	0.53
1:B:392:THR:O	1:B:396:PHE:HD1	1.92	0.53
1:B:800:PHE:HD2	1:B:804:ALA:HB2	1.73	0.53
1:B:1014:VAL:O	1:B:1017:ILE:HG12	2.08	0.53
1:C:391:ASN:HB2	1:C:394:THR:H	1.74	0.53
1:C:1001:ILE:HG13	1:C:1002:GLY:H	1.74	0.53
1:D:453:PHE:O	1:D:456:MET:HB2	2.08	0.53
1:A:344:LEU:O	1:A:348:ILE:HG22	2.09	0.53
1:A:838:ASP:O	1:A:839:ALA:C	2.51	0.53
1:B:8:ARG:HB3	1:C:892:GLU:OE1	2.09	0.53
1:C:634:TRP:CD1	1:C:634:TRP:H	2.26	0.53
1:D:133:VAL:HG12	1:D:293:LEU:O	2.08	0.53
1:D:356:TYR:HE1	1:D:513:PHE:HZ	1.57	0.53
1:D:780:MET:HE1	1:F:224:ALA:CA	2.28	0.53
1:D:875:LEU:HD11	1:D:931:LEU:HD11	1.90	0.53
1:E:156:ASN:ND2	1:E:182:TYR:H	2.07	0.53
1:E:586:ARG:O	1:E:589:VAL:HG12	2.09	0.53
1:A:532:ALA:HA	1:A:535:LEU:HB2	1.90	0.53
1:A:809:GLU:O	1:A:810:TYR:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:859:THR:HG23	1:A:860:GLY:N	2.23	0.53
1:C:652:GLN:HG3	1:C:714:ARG:HH11	1.74	0.53
1:D:143:VAL:HG22	1:D:286:ALA:HB2	1.91	0.53
1:D:366:LEU:O	1:D:370:ILE:HG23	2.09	0.53
1:E:62:VAL:CG2	1:E:88:MET:HG3	2.38	0.53
1:E:761:PHE:HE2	1:E:763:ASP:HB3	1.73	0.53
1:F:652:GLN:HG3	1:F:714:ARG:HH11	1.74	0.53
1:F:1029:THR:O	1:F:1030:LEU:HD23	2.09	0.53
1:A:453:PHE:O	1:A:456:MET:HB2	2.09	0.53
1:B:24:GLY:O	1:B:27:ILE:HG12	2.09	0.53
1:B:707:ALA:C	1:B:709:ASN:H	2.17	0.53
1:B:817:ARG:HD2	1:B:822:PRO:HA	1.91	0.53
1:C:539:ALA:N	1:C:540:PRO:HD2	2.24	0.53
1:D:7:ASP:C	1:D:9:PRO:HD3	2.34	0.53
1:D:690:VAL:HG22	1:D:694:VAL:HG21	1.90	0.53
1:F:326:PRO:HB3	1:F:610:PHE:HB2	1.90	0.53
1:F:742:LEU:HB3	1:F:746:ASN:ND2	2.24	0.53
1:A:100:PRO:HB3	1:A:295:THR:HG21	1.90	0.52
1:A:607:SER:HB2	1:A:632:LYS:HG2	1.91	0.52
1:A:753:TRP:CB	1:C:217:GLY:H	2.21	0.52
1:B:108:GLN:HB2	1:B:129:VAL:HG21	1.92	0.52
1:B:243:ALA:HB1	1:B:268:VAL:HG12	1.91	0.52
1:B:317:MET:SD	1:B:321:MET:HE3	2.48	0.52
1:B:435:MET:SD	1:B:438:ILE:HD11	2.50	0.52
1:B:530:GLY:O	1:B:534:ILE:HG13	2.10	0.52
1:B:684:LEU:O	1:B:823:ALA:HB1	2.09	0.52
1:B:758:VAL:HG21	1:B:772:LEU:HB2	1.91	0.52
1:C:43:ILE:CD1	1:C:104:GLN:HA	2.36	0.52
1:C:680:PHE:CE2	1:C:682:LEU:HD12	2.44	0.52
1:D:358:PHE:CD2	1:D:975:MET:HB2	2.44	0.52
1:D:723:GLU:HG2	1:D:813:PRO:HG3	1.91	0.52
1:D:753:TRP:HB2	1:F:217:GLY:H	1.74	0.52
1:E:944:ILE:HD11	1:E:1020:VAL:HG11	1.90	0.52
1:E:969:ARG:O	1:E:973:ILE:HG23	2.09	0.52
1:A:131:LYS:O	1:A:295:THR:HG22	2.09	0.52
1:A:416:VAL:HG11	1:A:497:LEU:HD23	1.91	0.52
1:A:485:ALA:O	1:A:490:PRO:HD3	2.08	0.52
1:A:823:ALA:O	1:A:824:MET:HG2	2.09	0.52
1:A:830:PRO:HA	1:A:838:ASP:OD2	2.08	0.52
1:A:851:PRO:O	1:A:854:VAL:HG12	2.09	0.52
1:B:53:SER:O	1:B:57:VAL:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:303:ALA:O	1:C:307:ARG:HB2	2.09	0.52
1:C:939:LYS:NZ	1:C:976:THR:HG22	2.25	0.52
1:D:416:VAL:HG12	1:D:420:MET:CE	2.38	0.52
1:E:530:GLY:O	1:E:534:ILE:HG13	2.09	0.52
1:E:794:LYS:HD3	1:E:795:GLY:N	2.24	0.52
1:F:944:ILE:HD11	1:F:1020:VAL:HB	1.92	0.52
1:A:39:ALA:CB	1:A:672:LEU:HD11	2.40	0.52
1:A:449:LEU:HD12	1:A:478:MET:HG2	1.91	0.52
1:A:875:LEU:HD11	1:A:931:LEU:HD11	1.91	0.52
1:C:225:VAL:O	1:C:228:GLN:HB2	2.10	0.52
1:C:896:ILE:HB	1:C:945:VAL:CG1	2.40	0.52
1:D:838:ASP:O	1:D:839:ALA:C	2.52	0.52
1:D:916:SER:O	1:D:917:MET:C	2.51	0.52
1:E:240:LEU:HA	1:E:245:GLN:NE2	2.24	0.52
1:E:587:THR:HG21	1:E:622:GLN:O	2.09	0.52
1:F:773:GLN:HB3	1:F:779:ARG:HH12	1.74	0.52
1:A:680:PHE:CZ	1:A:843:VAL:HG21	2.45	0.52
1:A:709:ASN:O	1:A:711:ALA:N	2.43	0.52
1:A:933:THR:OG1	1:A:1009:MET:HG2	2.09	0.52
1:A:943:LEU:HB3	1:A:969:ARG:NH1	2.24	0.52
1:B:352:PHE:CD2	1:B:353:LEU:HD23	2.44	0.52
1:B:977:SER:O	1:B:981:ILE:HG23	2.09	0.52
1:C:367:ILE:HG23	1:C:496:MET:HE2	1.90	0.52
1:D:210:GLN:HB2	1:D:249:ILE:HD12	1.91	0.52
1:D:696:LEU:HD13	1:D:699:ARG:NH1	2.25	0.52
1:E:904:VAL:HB	1:E:905:PRO:HD3	1.90	0.52
1:F:225:VAL:O	1:F:228:GLN:HB2	2.09	0.52
1:F:355:MET:SD	1:F:368:PRO:HB2	2.49	0.52
1:F:634:TRP:CD1	1:F:634:TRP:H	2.24	0.52
1:A:358:PHE:CD2	1:A:975:MET:HB2	2.44	0.52
1:A:489:THR:HB	1:A:490:PRO:HD3	1.92	0.52
1:B:981:ILE:HG13	1:B:982:LEU:N	2.24	0.52
1:C:433:LYS:HD2	1:C:437:GLN:NE2	2.24	0.52
1:C:943:LEU:CD1	1:C:973:ILE:HG22	2.39	0.52
1:D:240:LEU:HB2	1:D:246:PHE:CE1	2.45	0.52
1:D:545:TYR:HB2	1:D:1019:TRP:HZ3	1.70	0.52
1:D:943:LEU:HB3	1:D:969:ARG:NH1	2.24	0.52
1:D:977:SER:O	1:D:981:ILE:HG23	2.09	0.52
1:E:165:PRO:O	1:E:169:THR:HG23	2.10	0.52
1:E:192:LYS:O	1:E:195:SER:HB3	2.10	0.52
1:E:435:MET:SD	1:E:438:ILE:HD11	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:480:LEU:O	1:F:484:VAL:HG23	2.09	0.52
1:A:416:VAL:HG12	1:A:420:MET:CE	2.39	0.52
1:A:996:GLY:H	1:A:999:HIS:HD2	1.58	0.52
1:B:816:GLU:HB2	1:B:823:ALA:O	2.09	0.52
1:B:881:LEU:O	1:B:881:LEU:HD22	2.10	0.52
1:B:891:TYR:CD2	1:B:896:ILE:HD11	2.45	0.52
1:C:393:LEU:HD13	1:C:466:ILE:HB	1.92	0.52
1:C:607:SER:HB2	1:C:632:LYS:HG2	1.92	0.52
1:D:531:VAL:O	1:D:532:ALA:O	2.28	0.52
1:D:680:PHE:CD2	1:D:858:TRP:HZ3	2.26	0.52
1:E:243:ALA:HB1	1:E:268:VAL:HG12	1.91	0.52
1:F:358:PHE:CD1	1:F:975:MET:HG2	2.45	0.52
1:F:609:VAL:HG22	1:F:629:ILE:HG23	1.92	0.52
1:F:680:PHE:CE2	1:F:682:LEU:HD12	2.44	0.52
1:A:388:PHE:CE2	1:A:472:ILE:HG12	2.43	0.52
1:A:710:PRO:HD3	1:D:807:LYS:CE	2.39	0.52
1:B:125:GLN:NE2	1:B:769:ARG:NH1	2.53	0.52
1:B:293:LEU:CD2	1:B:302:THR:HG21	2.38	0.52
1:B:549:VAL:O	1:B:552:MET:HG2	2.09	0.52
1:B:574:ALA:HB3	1:B:627:ALA:HB3	1.91	0.52
1:C:527:TYR:HD1	1:C:1018:PHE:CE2	2.28	0.52
1:C:902:LEU:HD13	1:C:1023:PHE:CD2	2.45	0.52
1:D:159:VAL:HA	1:D:163:GLN:HB2	1.90	0.52
1:D:190:PRO:C	1:D:192:LYS:H	2.18	0.52
1:D:224:ALA:HB1	1:E:780:MET:HE1	1.92	0.52
1:E:348:ILE:HD12	1:E:369:THR:HG23	1.92	0.52
1:F:939:LYS:HZ3	1:F:976:THR:HG21	1.73	0.52
1:B:489:THR:OG1	1:B:490:PRO:HD3	2.10	0.52
1:B:794:LYS:HD3	1:B:795:GLY:N	2.25	0.52
1:D:449:LEU:HD12	1:D:478:MET:HG2	1.92	0.52
1:D:695:LEU:HD13	1:D:699:ARG:HH21	1.74	0.52
1:E:392:THR:O	1:E:396:PHE:HD1	1.93	0.52
1:E:418:ARG:CZ	1:E:968:MET:HE3	2.40	0.52
1:E:953:GLU:C	1:E:955:GLY:N	2.67	0.52
1:F:579:PRO:HG3	1:F:660:ASP:CG	2.34	0.52
1:F:692:HIS:O	1:F:696:LEU:HB2	2.10	0.52
1:F:818:TYR:CD1	1:F:823:ALA:HB3	2.45	0.52
1:B:151:LYS:HZ1	1:B:278:ASN:HB3	1.75	0.52
1:C:159:VAL:O	1:C:159:VAL:HG12	2.08	0.52
1:C:912:LEU:CD2	1:C:926:PHE:HZ	2.23	0.52
1:D:933:THR:OG1	1:D:1009:MET:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:703:LEU:CD1	1:E:717:PRO:HG3	2.37	0.52
1:F:438:ILE:C	1:F:440:GLY:H	2.18	0.52
1:F:534:ILE:HD12	1:F:1022:LEU:HD12	1.92	0.52
1:A:7:ASP:C	1:A:9:PRO:HD3	2.36	0.52
1:A:259:GLN:HE21	1:A:259:GLN:N	2.07	0.52
1:A:356:TYR:HE1	1:A:513:PHE:HZ	1.58	0.52
1:A:708:GLN:OE1	1:D:809:GLU:HA	2.10	0.52
1:A:725:GLN:HG3	1:A:811:GLY:H	1.75	0.52
1:B:568:ASP:O	1:B:569:GLN:C	2.53	0.52
1:D:823:ALA:O	1:D:824:MET:HG2	2.10	0.52
1:E:317:MET:SD	1:E:321:MET:HE3	2.50	0.52
1:F:745:ILE:HG22	1:F:790:VAL:HG21	1.91	0.52
1:F:751:ILE:HB	1:F:756:SER:HB2	1.91	0.52
1:A:453:PHE:HE2	1:A:932:THR:HG22	1.74	0.51
1:A:572:LEU:HB3	1:A:629:ILE:HB	1.92	0.51
1:A:812:SER:OG	1:A:815:LEU:HD13	2.10	0.51
1:B:162:ILE:HG22	1:B:313:LEU:CD1	2.32	0.51
1:B:348:ILE:HD12	1:B:369:THR:HG23	1.92	0.51
1:C:687:GLN:NE2	1:C:855:GLY:HA3	2.25	0.51
1:C:773:GLN:HB3	1:C:779:ARG:HH12	1.74	0.51
1:D:485:ALA:O	1:D:490:PRO:HD3	2.10	0.51
1:D:593:SER:HB3	1:D:658:PHE:CZ	2.45	0.51
1:D:680:PHE:CZ	1:D:843:VAL:HG21	2.45	0.51
1:E:46:GLN:HE22	2:E:2033:LMT:H42	1.74	0.51
1:E:574:ALA:HB3	1:E:627:ALA:HB3	1.92	0.51
2:E:2033:LMT:H6E	2:E:2033:LMT:O6B	2.10	0.51
1:F:912:LEU:CD2	1:F:926:PHE:HZ	2.22	0.51
1:A:328:ASP:O	1:A:630:MET:HE1	2.09	0.51
1:A:356:TYR:O	1:A:356:TYR:HD1	1.93	0.51
1:B:151:LYS:NZ	1:B:278:ASN:HB3	2.25	0.51
1:C:188:LEU:HA	1:C:266:ALA:HB2	1.92	0.51
1:C:751:ILE:HB	1:C:756:SER:HB2	1.92	0.51
1:D:416:VAL:O	1:D:420:MET:HB2	2.10	0.51
1:D:555:MET:SD	1:D:913:LEU:HD23	2.49	0.51
1:F:539:ALA:N	1:F:540:PRO:HD2	2.25	0.51
1:B:240:LEU:HA	1:B:245:GLN:NE2	2.25	0.51
1:B:587:THR:HG21	1:B:622:GLN:O	2.10	0.51
1:B:703:LEU:CD1	1:B:717:PRO:HG3	2.36	0.51
1:D:242:THR:HG23	1:D:245:GLN:H	1.75	0.51
1:D:409:ALA:O	1:D:413:VAL:HG23	2.11	0.51
1:D:439:GLN:O	1:D:443:VAL:HG23	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:958:ILE:HD13	1:D:959:VAL:H	1.76	0.51
1:E:143:VAL:HG12	1:E:286:ALA:CB	2.40	0.51
1:E:517:ASN:O	1:E:521:LEU:HB2	2.10	0.51
1:F:43:ILE:HD11	1:F:107:VAL:CG2	2.39	0.51
1:F:214:ILE:HG12	1:F:237:LYS:HB2	1.92	0.51
1:A:240:LEU:HB2	1:A:246:PHE:CE1	2.45	0.51
1:A:242:THR:HG23	1:A:245:GLN:H	1.76	0.51
1:A:485:ALA:HA	1:A:489:THR:OG1	2.10	0.51
1:A:977:SER:O	1:A:981:ILE:HG23	2.10	0.51
1:C:980:PHE:HE2	1:C:1005:VAL:HG13	1.75	0.51
1:D:219:LEU:C	1:D:221:GLY:H	2.18	0.51
1:E:906:LEU:O	1:E:1011:THR:HG23	2.10	0.51
1:A:142:VAL:CG1	1:A:154:LEU:HD22	2.40	0.51
1:B:16:ALA:HB2	1:B:488:LEU:HG	1.92	0.51
1:C:527:TYR:O	1:C:531:VAL:HG23	2.11	0.51
1:D:913:LEU:O	1:D:917:MET:HG2	2.11	0.51
1:E:188:LEU:HD11	1:E:772:LEU:HD21	1.93	0.51
1:F:227:GLY:O	1:F:229:GLN:HG3	2.11	0.51
1:A:196:TYR:CD1	1:A:260:VAL:HG11	2.45	0.51
1:B:34:GLN:HG3	1:B:35:TYR:CD2	2.45	0.51
1:B:418:ARG:HH11	1:B:418:ARG:HG2	1.75	0.51
1:B:418:ARG:CZ	1:B:968:MET:HE3	2.41	0.51
1:C:729:GLU:HB2	1:C:805:THR:HG23	1.91	0.51
1:D:548:ILE:HG23	1:D:909:ILE:HD13	1.92	0.51
1:D:749:VAL:HG13	1:D:753:TRP:CD1	2.46	0.51
1:D:812:SER:OG	1:D:815:LEU:HD13	2.10	0.51
1:E:1:MET:O	1:E:4:PHE:HB3	2.10	0.51
1:E:428:ARG:H	1:E:428:ARG:CD	2.17	0.51
1:F:49:TYR:HE1	1:F:121:GLU:CG	2.23	0.51
1:F:391:ASN:HB2	1:F:394:THR:H	1.75	0.51
1:F:731:ASP:C	1:F:733:GLU:H	2.19	0.51
1:A:210:GLN:HB2	1:A:249:ILE:HD12	1.93	0.51
1:A:367:ILE:CD1	1:A:413:VAL:HG22	2.40	0.51
1:B:415:ASN:ND2	1:B:434:SER:HB2	2.22	0.51
1:C:169:THR:HG23	1:C:172:VAL:HG21	1.92	0.51
1:C:891:TYR:CD1	1:C:896:ILE:HD11	2.46	0.51
1:C:944:ILE:HD11	1:C:1020:VAL:HB	1.93	0.51
1:D:193:LEU:HD21	1:D:265:VAL:HG13	1.92	0.51
1:D:213:GLN:CG	1:E:56:THR:HG23	2.41	0.51
1:D:437:GLN:C	1:D:438:ILE:HG13	2.35	0.51
1:E:423:GLU:OE2	1:E:433:LYS:HE3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:15:ILE:HG13	1:F:16:ALA:N	2.24	0.51
1:F:143:VAL:O	1:F:321:MET:HA	2.10	0.51
1:F:366:LEU:HD12	1:F:496:MET:HE1	1.93	0.51
1:F:527:TYR:HD1	1:F:1018:PHE:CE2	2.29	0.51
1:F:682:LEU:HD11	1:F:843:VAL:CG1	2.39	0.51
1:F:687:GLN:NE2	1:F:855:GLY:HA3	2.26	0.51
1:A:62:VAL:O	1:A:65:ILE:HD13	2.10	0.51
1:A:224:ALA:HB1	1:B:780:MET:HE1	1.93	0.51
1:A:273:GLN:NE2	1:A:769:ARG:HD2	2.25	0.51
1:A:376:LEU:O	1:A:379:THR:CG2	2.59	0.51
1:A:780:MET:SD	1:C:228:GLN:HG3	2.51	0.51
1:B:367:ILE:HB	1:B:368:PRO:CD	2.38	0.51
1:B:692:HIS:C	1:B:692:HIS:CD2	2.89	0.51
1:C:49:TYR:HE1	1:C:121:GLU:CG	2.23	0.51
1:C:609:VAL:HG22	1:C:629:ILE:HG23	1.91	0.51
1:D:156:ASN:ND2	1:D:768:LYS:NZ	2.58	0.51
1:F:247:GLU:HB3	1:F:263:LYS:HE2	1.93	0.51
1:F:607:SER:HB2	1:F:632:LYS:HG2	1.93	0.51
1:A:219:LEU:C	1:A:221:GLY:H	2.18	0.51
1:A:548:ILE:HG23	1:A:909:ILE:HD13	1.93	0.51
1:A:704:MET:O	1:A:707:ALA:HB3	2.11	0.51
1:A:723:GLU:HG2	1:A:813:PRO:HG3	1.90	0.51
1:C:80:SER:HA	1:C:90:ILE:HA	1.93	0.51
1:C:680:PHE:HE2	1:C:682:LEU:HD12	1.76	0.51
1:D:423:GLU:HB3	1:D:425:LEU:HD13	1.92	0.51
1:D:572:LEU:HB3	1:D:629:ILE:HB	1.92	0.51
1:D:792:ASN:CG	1:D:793:ASP:H	2.17	0.51
1:F:446:ALA:O	1:F:450:SER:HB2	2.10	0.51
1:F:1001:ILE:HG13	1:F:1002:GLY:H	1.76	0.51
1:A:115:THR:HA	1:A:118:LEU:HD13	1.92	0.51
1:A:708:GLN:HA	1:A:708:GLN:HE21	1.76	0.51
1:A:875:LEU:HD12	1:A:876:TYR:N	2.26	0.51
1:B:1:MET:O	1:B:4:PHE:HB3	2.11	0.51
1:B:517:ASN:O	1:B:521:LEU:HB2	2.11	0.51
1:B:969:ARG:O	1:B:973:ILE:HG23	2.10	0.51
1:C:150:THR:HG23	1:C:152:GLU:H	1.76	0.51
1:C:367:ILE:CG1	1:C:368:PRO:HD3	2.41	0.51
1:C:545:TYR:CD1	1:C:1023:PHE:HZ	2.30	0.51
1:C:891:TYR:CG	1:C:896:ILE:HD11	2.46	0.51
1:D:344:LEU:O	1:D:348:ILE:HG22	2.11	0.51
1:D:428:ARG:HH12	1:D:432:ARG:NE	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:584:ALA:O	1:E:588:GLN:HB2	2.11	0.51
1:F:303:ALA:O	1:F:307:ARG:HB2	2.11	0.51
1:A:865:GLU:O	1:A:866:ARG:HB2	2.11	0.50
1:A:930:LEU:O	1:A:933:THR:HG22	2.10	0.50
1:B:552:MET:HG3	1:B:553:ILE:N	2.23	0.50
1:B:586:ARG:O	1:B:589:VAL:HG12	2.10	0.50
1:D:375:VAL:CG2	1:D:405:LEU:HG	2.24	0.50
1:E:11:PHE:CD1	1:F:889:ALA:HB1	2.46	0.50
1:E:751:ILE:O	1:E:773:GLN:HA	2.11	0.50
1:F:150:THR:HG23	1:F:152:GLU:H	1.76	0.50
1:F:188:LEU:HA	1:F:266:ALA:HB2	1.92	0.50
1:F:980:PHE:HE2	1:F:1005:VAL:HG13	1.75	0.50
1:A:6:ILE:H	1:A:6:ILE:HD12	1.75	0.50
1:A:518:ARG:O	1:A:522:SER:N	2.41	0.50
1:A:655:PHE:HD2	1:A:658:PHE:HE2	1.60	0.50
1:A:699:ARG:O	1:A:703:LEU:HD23	2.11	0.50
1:A:753:TRP:CH2	1:A:785:LEU:HA	2.46	0.50
1:B:239:ARG:HD3	1:B:760:ASP:O	2.11	0.50
1:B:906:LEU:O	1:B:1011:THR:HG23	2.11	0.50
1:C:143:VAL:O	1:C:321:MET:HA	2.11	0.50
1:C:247:GLU:HB3	1:C:263:LYS:HE2	1.94	0.50
1:C:466:ILE:O	1:C:469:GLN:HB2	2.11	0.50
1:C:872:ALA:HB1	1:C:876:TYR:CE1	2.45	0.50
1:E:8:ARG:HB3	1:F:892:GLU:OE1	2.10	0.50
1:E:312:ASN:N	1:E:312:ASN:HD22	2.09	0.50
1:F:142:VAL:CG1	1:F:154:LEU:HD22	2.41	0.50
1:A:156:ASN:ND2	1:A:182:TYR:H	2.09	0.50
1:A:541:TYR:C	1:A:543:LEU:H	2.20	0.50
1:A:577:GLN:HE21	1:A:720:MET:HE3	1.75	0.50
1:C:135:ASN:O	1:C:292:LYS:HG2	2.11	0.50
1:C:973:ILE:HD11	1:C:1017:ILE:HG22	1.93	0.50
1:D:472:ILE:C	1:D:472:ILE:HD12	2.36	0.50
1:D:544:ILE:HG23	1:D:1019:TRP:HH2	1.76	0.50
1:D:753:TRP:CH2	1:D:785:LEU:HA	2.47	0.50
1:E:758:VAL:HG21	1:E:772:LEU:HB2	1.92	0.50
1:E:882:VAL:HG13	2:E:2032:LMT:H121	1.92	0.50
1:F:27:ILE:HD11	1:F:380:PHE:CD1	2.45	0.50
1:F:466:ILE:O	1:F:469:GLN:HB2	2.12	0.50
1:A:133:VAL:HG12	1:A:293:LEU:O	2.12	0.50
1:A:157:TYR:O	1:A:158:ILE:C	2.55	0.50
1:A:538:ARG:HG3	1:A:1022:LEU:CD2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:562:ALA:O	1:A:923:ASP:HA	2.11	0.50
1:A:593:SER:HB3	1:A:658:PHE:CZ	2.46	0.50
1:B:2:SER:HB3	1:B:486:LEU:O	2.11	0.50
1:B:584:ALA:O	1:B:588:GLN:HB2	2.11	0.50
1:C:534:ILE:HD12	1:C:1022:LEU:HD12	1.94	0.50
1:D:189:ASP:C	1:D:193:LEU:HD23	2.36	0.50
1:F:478:MET:O	1:F:481:SER:HB3	2.10	0.50
1:F:680:PHE:HE2	1:F:682:LEU:HD12	1.77	0.50
1:A:189:ASP:C	1:A:193:LEU:HD23	2.36	0.50
1:A:498:LYS:N	1:A:499:PRO:CD	2.62	0.50
1:A:896:ILE:N	1:A:897:PRO:CD	2.74	0.50
1:B:751:ILE:O	1:B:773:GLN:HA	2.11	0.50
1:C:166:LEU:HA	1:C:169:THR:HG22	1.94	0.50
1:C:214:ILE:CG1	1:C:237:LYS:HB2	2.41	0.50
1:C:711:ALA:HB3	1:C:712:LEU:HD23	1.94	0.50
1:D:328:ASP:O	1:D:630:MET:HE1	2.11	0.50
1:D:538:ARG:HG3	1:D:1022:LEU:CD2	2.42	0.50
1:D:655:PHE:HD2	1:D:658:PHE:HE2	1.59	0.50
1:D:751:ILE:CG2	1:D:772:LEU:HD13	2.42	0.50
1:D:785:LEU:HD11	1:F:219:LEU:HD21	1.93	0.50
1:E:55:GLU:C	1:E:57:VAL:H	2.19	0.50
1:E:896:ILE:N	1:E:897:PRO:CD	2.75	0.50
1:A:131:LYS:O	1:A:131:LYS:HG3	2.12	0.50
1:A:438:ILE:O	1:A:442:LEU:HD13	2.12	0.50
1:A:637:ARG:O	1:A:642:ASN:HB2	2.12	0.50
1:A:913:LEU:O	1:A:917:MET:HG2	2.12	0.50
1:A:958:ILE:HD13	1:A:959:VAL:H	1.76	0.50
1:A:1003:THR:HG23	1:A:1004:GLY:N	2.27	0.50
1:B:528:GLU:HB3	1:B:963:ILE:HD11	1.94	0.50
1:B:1030:LEU:HD22	1:B:1030:LEU:O	2.12	0.50
1:C:183:SER:OG	1:C:273:GLN:HG3	2.12	0.50
1:C:192:LYS:HD3	1:C:264:ASP:O	2.11	0.50
1:C:317:MET:HB3	1:C:321:MET:SD	2.51	0.50
1:D:160:SER:O	1:D:766:ARG:NH1	2.45	0.50
1:D:210:GLN:NE2	1:D:249:ILE:HG13	2.26	0.50
1:D:576:VAL:HB	1:D:625:GLY:O	2.11	0.50
1:D:724:PRO:CA	1:D:810:TYR:HB2	2.42	0.50
1:E:16:ALA:HB2	1:E:488:LEU:HG	1.93	0.50
1:A:235:ILE:HD13	1:A:235:ILE:H	1.76	0.50
1:A:437:GLN:C	1:A:438:ILE:HG13	2.37	0.50
1:B:569:GLN:O	1:B:571:VAL:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:503:GLY:C	1:C:505:HIS:H	2.20	0.50
1:C:939:LYS:HZ3	1:C:976:THR:HG21	1.77	0.50
1:D:519:MET:O	1:D:522:SER:OG	2.26	0.50
1:D:541:TYR:C	1:D:543:LEU:H	2.19	0.50
1:D:637:ARG:HB2	1:D:642:ASN:HB3	1.94	0.50
1:E:38:ILE:HG13	1:E:462:SER:HB2	1.94	0.50
1:E:489:THR:OG1	1:E:490:PRO:HD3	2.12	0.50
1:F:192:LYS:HD3	1:F:264:ASP:O	2.12	0.50
1:F:872:ALA:HB1	1:F:876:TYR:CE1	2.47	0.50
1:A:585:GLU:O	1:A:589:VAL:HG23	2.10	0.50
1:A:637:ARG:HB2	1:A:642:ASN:HB3	1.93	0.50
1:A:739:GLY:HA3	1:A:793:ASP:HB2	1.94	0.50
1:B:102:ILE:O	1:B:105:VAL:HG12	2.12	0.50
1:B:235:ILE:O	1:B:235:ILE:HG13	2.11	0.50
1:B:423:GLU:OE2	1:B:433:LYS:HE3	2.11	0.50
1:B:944:ILE:HD11	1:B:1020:VAL:HG11	1.92	0.50
1:C:175:PHE:C	1:C:175:PHE:CD2	2.89	0.50
1:C:281:PHE:O	1:C:282:ASN:HB2	2.11	0.50
1:D:262:LEU:HD22	1:D:263:LYS:N	2.26	0.50
1:D:573:PHE:HB2	1:D:666:PHE:CD2	2.47	0.50
1:E:219:LEU:HD12	1:F:726:TYR:CE1	2.46	0.50
1:E:515:TRP:CZ2	1:E:519:MET:HG3	2.47	0.50
1:F:188:LEU:HD21	1:F:203:VAL:HG11	1.94	0.50
1:F:367:ILE:CG1	1:F:368:PRO:HD3	2.41	0.50
1:A:156:ASN:HD22	1:A:182:TYR:H	1.59	0.50
1:B:224:ALA:HB1	1:C:780:MET:SD	2.51	0.50
1:B:352:PHE:HD1	1:B:365:THR:HG23	1.77	0.50
1:E:235:ILE:O	1:E:235:ILE:HG13	2.12	0.50
1:E:371:ALA:O	1:E:374:VAL:HG12	2.12	0.50
1:E:568:ASP:O	1:E:569:GLN:C	2.54	0.50
1:F:65:ILE:CD1	1:F:90:ILE:HG12	2.42	0.50
1:F:138:MET:HE1	1:F:306:ILE:CG1	2.41	0.50
1:F:891:TYR:CG	1:F:896:ILE:HD11	2.47	0.50
1:A:449:LEU:O	1:A:449:LEU:HD13	2.12	0.49
1:A:818:TYR:O	1:A:820:GLY:N	2.45	0.49
1:B:896:ILE:N	1:B:897:PRO:CD	2.75	0.49
1:C:1:MET:O	1:C:2:SER:C	2.54	0.49
1:E:46:GLN:HE22	2:E:2033:LMT:C4	2.25	0.49
1:F:139:VAL:O	1:F:326:PRO:HD2	2.11	0.49
1:F:166:LEU:HD21	1:F:310:ILE:HG23	1.93	0.49
1:F:317:MET:HB3	1:F:321:MET:SD	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:612:VAL:HG11	1:F:615:PHE:HB3	1.94	0.49
1:F:891:TYR:CD1	1:F:896:ILE:HD11	2.47	0.49
1:A:175:PHE:CD1	1:A:289:ILE:HD11	2.47	0.49
1:A:766:ARG:NE	1:B:67:GLN:NE2	2.60	0.49
1:B:156:ASN:ND2	1:B:182:TYR:H	2.10	0.49
1:B:188:LEU:HD11	1:B:772:LEU:HD21	1.94	0.49
1:B:343:THR:HA	1:B:346:GLU:HG2	1.94	0.49
1:B:391:ASN:H	1:B:394:THR:HG22	1.75	0.49
1:D:17:LEU:HD21	2:D:2026:LMT:H81	1.92	0.49
1:D:131:LYS:O	1:D:131:LYS:HG3	2.11	0.49
1:D:155:SER:OG	1:D:179:GLY:HA3	2.11	0.49
1:D:222:LEU:HD23	1:E:622:GLN:NE2	2.26	0.49
1:D:356:TYR:HE1	1:D:513:PHE:CZ	2.30	0.49
1:E:553:ILE:O	1:E:557:THR:HG23	2.12	0.49
1:E:786:SER:HB2	1:E:801:ASN:OD1	2.12	0.49
1:F:80:SER:HA	1:F:90:ILE:HA	1.94	0.49
1:A:708:GLN:HA	1:A:708:GLN:NE2	2.27	0.49
1:B:185:ARG:NH2	1:B:771:TYR:HB3	2.27	0.49
1:C:186:ILE:HG13	1:C:772:LEU:HD23	1.94	0.49
1:C:213:GLN:HG2	1:C:239:ARG:HG3	1.93	0.49
1:C:453:PHE:CE2	1:C:474:ILE:HD12	2.47	0.49
1:C:818:TYR:CD1	1:C:823:ALA:HB3	2.46	0.49
1:D:405:LEU:HD22	1:D:405:LEU:C	2.37	0.49
1:D:875:LEU:CD1	1:D:931:LEU:HD11	2.43	0.49
1:E:47:VAL:H	1:E:88:MET:CE	2.25	0.49
1:E:707:ALA:C	1:E:709:ASN:H	2.19	0.49
1:F:135:ASN:O	1:F:292:LYS:HG2	2.12	0.49
1:F:186:ILE:HG13	1:F:772:LEU:HD23	1.95	0.49
1:F:341:VAL:HG22	1:F:395:MET:HE2	1.94	0.49
1:F:757:TYR:CD1	1:F:769:ARG:HD3	2.48	0.49
1:F:902:LEU:HD13	1:F:1023:PHE:CD2	2.47	0.49
1:A:170:LYS:HE3	1:A:170:LYS:CA	2.37	0.49
1:A:439:GLN:O	1:A:443:VAL:HG23	2.11	0.49
1:A:498:LYS:H	1:A:499:PRO:HD3	1.75	0.49
1:A:530:GLY:O	1:A:531:VAL:C	2.56	0.49
1:A:576:VAL:HB	1:A:625:GLY:O	2.13	0.49
1:A:749:VAL:HG13	1:A:753:TRP:CD1	2.46	0.49
1:B:246:PHE:O	1:B:249:ILE:HD11	2.12	0.49
1:B:969:ARG:C	1:B:972:PRO:HD2	2.38	0.49
1:C:139:VAL:O	1:C:326:PRO:HD2	2.12	0.49
1:C:358:PHE:CD1	1:C:975:MET:HG2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:433:LYS:HD2	1:C:437:GLN:HE21	1.76	0.49
1:C:692:HIS:O	1:C:696:LEU:HB2	2.11	0.49
1:C:695:LEU:CD1	1:C:699:ARG:HH22	2.25	0.49
1:C:757:TYR:CD1	1:C:769:ARG:HD3	2.47	0.49
1:D:562:ALA:O	1:D:923:ASP:HA	2.12	0.49
1:D:577:GLN:NE2	1:D:720:MET:HE3	2.27	0.49
1:D:875:LEU:HD12	1:D:876:TYR:N	2.27	0.49
1:D:996:GLY:N	1:D:999:HIS:CD2	2.78	0.49
1:E:53:SER:O	1:E:57:VAL:HG12	2.12	0.49
1:E:352:PHE:CD2	1:E:353:LEU:HD23	2.48	0.49
1:A:535:LEU:CD2	1:A:963:ILE:HD11	2.42	0.49
1:A:730:ILE:CD1	1:A:745:ILE:HD11	2.43	0.49
1:B:158:ILE:CG2	1:B:162:ILE:HD11	2.39	0.49
1:B:428:ARG:H	1:B:428:ARG:CD	2.16	0.49
1:C:65:ILE:CD1	1:C:90:ILE:HG12	2.42	0.49
1:C:138:MET:HE1	1:C:306:ILE:CG1	2.42	0.49
1:C:682:LEU:HD11	1:C:843:VAL:CG1	2.41	0.49
1:C:903:VAL:CG2	1:C:1020:VAL:HG22	2.43	0.49
1:D:170:LYS:HE3	1:D:170:LYS:CA	2.40	0.49
1:D:453:PHE:HE2	1:D:932:THR:HG22	1.77	0.49
1:D:753:TRP:CB	1:F:217:GLY:H	2.25	0.49
1:D:896:ILE:N	1:D:897:PRO:CD	2.75	0.49
1:E:904:VAL:O	1:E:908:VAL:HG23	2.12	0.49
1:F:984:VAL:C	1:F:986:PRO:HD2	2.38	0.49
1:A:730:ILE:HD12	1:A:745:ILE:HD11	1.93	0.49
1:B:104:GLN:HE21	1:B:131:LYS:HE2	1.77	0.49
1:C:227:GLY:O	1:C:229:GLN:HG3	2.13	0.49
1:D:194:ASN:HD22	1:D:797:MET:HG2	1.77	0.49
1:D:217:GLY:O	1:D:234:ILE:HG12	2.12	0.49
1:D:518:ARG:O	1:D:522:SER:HB3	2.12	0.49
1:D:576:VAL:HG21	1:D:594:MET:HE1	1.94	0.49
1:E:352:PHE:HD1	1:E:365:THR:HG23	1.78	0.49
1:E:1023:PHE:O	1:E:1027:VAL:HG23	2.13	0.49
1:F:154:LEU:O	1:F:157:TYR:HB3	2.13	0.49
1:F:183:SER:OG	1:F:273:GLN:HG3	2.13	0.49
1:F:711:ALA:HB3	1:F:712:LEU:HD23	1.94	0.49
1:F:783:ASP:C	1:F:785:LEU:H	2.19	0.49
1:F:872:ALA:HB3	1:F:873:PRO:HD3	1.94	0.49
1:A:544:ILE:HG23	1:A:1019:TRP:HH2	1.78	0.49
1:B:944:ILE:HG22	1:B:969:ARG:HG3	1.95	0.49
1:B:953:GLU:C	1:B:955:GLY:N	2.69	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:262:LEU:HD13	1:D:262:LEU:C	2.37	0.49
1:D:865:GLU:O	1:D:866:ARG:HB2	2.12	0.49
1:E:239:ARG:HD3	1:E:760:ASP:O	2.12	0.49
1:E:578:THR:HG21	1:E:587:THR:HB	1.95	0.49
1:E:591:VAL:HG13	1:E:594:MET:HE2	1.95	0.49
1:F:143:VAL:HG23	1:F:324:VAL:HG21	1.95	0.49
1:A:146:ASP:C	1:A:148:SER:N	2.71	0.49
1:A:696:LEU:HD13	1:A:699:ARG:NH1	2.28	0.49
1:B:55:GLU:C	1:B:57:VAL:H	2.20	0.49
1:B:445:ILE:HG22	1:B:942:ILE:CD1	2.43	0.49
1:B:515:TRP:CZ2	1:B:519:MET:HG3	2.48	0.49
1:B:528:GLU:CD	1:B:967:ARG:HG3	2.38	0.49
1:D:532:ALA:HA	1:D:535:LEU:HB2	1.94	0.49
1:D:699:ARG:O	1:D:703:LEU:HD23	2.13	0.49
1:E:76:ARG:HD3	1:E:863:TYR:CE2	2.48	0.49
1:E:338:HIS:C	1:E:340:VAL:H	2.20	0.49
1:E:426:SER:HB2	1:E:427:PRO:HD2	1.94	0.49
1:F:111:LEU:C	1:F:113:LEU:N	2.71	0.49
1:F:443:VAL:O	1:F:447:MET:HB2	2.12	0.49
1:F:759:ASN:H	1:F:770:VAL:HG22	1.77	0.49
1:A:840:MET:HA	1:A:844:GLU:HB2	1.94	0.49
1:C:143:VAL:HG23	1:C:324:VAL:HG21	1.94	0.49
1:C:695:LEU:HD13	1:C:699:ARG:HH12	1.78	0.49
1:C:759:ASN:H	1:C:770:VAL:HG22	1.78	0.49
1:C:985:VAL:CG2	1:C:986:PRO:HD3	2.43	0.49
1:D:724:PRO:HA	1:D:810:TYR:CB	2.43	0.49
1:E:1001:ILE:HG13	1:E:1002:GLY:N	2.27	0.49
1:A:235:ILE:HD13	1:A:235:ILE:N	2.28	0.49
1:A:952:HIS:CE1	1:A:958:ILE:HG22	2.48	0.49
1:B:312:ASN:HD22	1:B:312:ASN:N	2.11	0.49
1:B:786:SER:HB2	1:B:801:ASN:OD1	2.13	0.49
1:C:366:LEU:HD12	1:C:496:MET:HE1	1.93	0.49
1:D:157:TYR:O	1:D:158:ILE:C	2.55	0.49
1:E:445:ILE:HG22	1:E:942:ILE:CD1	2.43	0.49
1:E:571:VAL:HG23	1:E:668:PRO:HG2	1.95	0.49
1:E:973:ILE:HD11	1:E:1017:ILE:CG2	2.43	0.49
1:E:1030:LEU:O	1:E:1030:LEU:HD22	2.12	0.49
1:A:193:LEU:HD21	1:A:265:VAL:HG13	1.94	0.48
1:B:380:PHE:CZ	1:B:395:MET:HE1	2.48	0.48
1:B:438:ILE:O	1:B:439:GLN:C	2.56	0.48
1:B:753:TRP:CH2	1:B:785:LEU:HG	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:843:VAL:O	1:B:847:VAL:HG23	2.13	0.48
1:B:936:LEU:HD12	1:B:1009:MET:CE	2.43	0.48
1:C:188:LEU:HD21	1:C:203:VAL:HG11	1.94	0.48
1:D:316:PHE:CG	1:E:687:GLN:HB2	2.47	0.48
1:D:449:LEU:O	1:D:449:LEU:HD13	2.13	0.48
1:D:489:THR:HB	1:D:490:PRO:HD3	1.94	0.48
1:D:698:ALA:HB2	1:D:851:PRO:HG2	1.93	0.48
1:E:4:PHE:CZ	1:E:8:ARG:HD2	2.47	0.48
1:E:102:ILE:O	1:E:105:VAL:HG12	2.13	0.48
1:E:692:HIS:CD2	1:E:692:HIS:C	2.90	0.48
1:F:576:VAL:HG22	1:F:663:VAL:HG12	1.95	0.48
1:F:690:VAL:HG11	1:F:694:VAL:HG11	1.95	0.48
1:A:85:ASP:OD2	1:A:620:ARG:HG3	2.13	0.48
1:A:143:VAL:HG22	1:A:286:ALA:HB2	1.95	0.48
1:A:428:ARG:HH12	1:A:432:ARG:NE	2.10	0.48
1:A:576:VAL:HG21	1:A:594:MET:HE1	1.95	0.48
1:B:338:HIS:C	1:B:340:VAL:H	2.21	0.48
1:B:591:VAL:HG13	1:B:594:MET:HE2	1.95	0.48
1:B:904:VAL:HG22	1:B:934:ILE:HD12	1.95	0.48
1:C:418:ARG:NH1	1:C:968:MET:HE3	2.27	0.48
1:C:973:ILE:CD1	1:C:1017:ILE:HG22	2.43	0.48
1:D:273:GLN:NE2	1:D:769:ARG:HD2	2.27	0.48
1:D:438:ILE:O	1:D:442:LEU:HD13	2.12	0.48
1:E:156:ASN:ND2	1:E:182:TYR:N	2.60	0.48
1:F:213:GLN:HG2	1:F:239:ARG:HG3	1.95	0.48
1:A:418:ARG:HD3	1:A:419:VAL:N	2.28	0.48
1:B:565:PRO:HG3	1:B:923:ASP:HB3	1.95	0.48
1:B:1001:ILE:HG13	1:B:1002:GLY:N	2.28	0.48
1:C:886:CYS:O	1:C:890:LEU:HB2	2.14	0.48
1:C:924:VAL:O	1:C:928:VAL:HG23	2.13	0.48
1:D:80:SER:HA	1:D:90:ILE:HA	1.94	0.48
1:D:115:THR:HA	1:D:118:LEU:HD13	1.95	0.48
1:D:418:ARG:HD3	1:D:419:VAL:N	2.28	0.48
1:E:234:ILE:HG22	1:F:726:TYR:CB	2.31	0.48
1:F:45:VAL:HG22	1:F:129:VAL:HG22	1.95	0.48
1:F:185:ARG:HH11	1:F:771:TYR:CB	2.26	0.48
1:B:104:GLN:O	1:B:107:VAL:HG12	2.13	0.48
1:D:146:ASP:C	1:D:148:SER:N	2.71	0.48
1:D:175:PHE:CD1	1:D:289:ILE:HD11	2.48	0.48
1:D:367:ILE:HG12	1:D:368:PRO:CD	2.43	0.48
1:D:713:GLN:OE1	1:D:832:PRO:HD3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:528:GLU:HB3	1:E:963:ILE:HD11	1.95	0.48
1:F:977:SER:OG	1:F:1009:MET:HE1	2.14	0.48
1:A:190:PRO:C	1:A:192:LYS:H	2.21	0.48
1:A:573:PHE:HB2	1:A:666:PHE:CD2	2.48	0.48
1:A:751:ILE:CG2	1:A:772:LEU:HD13	2.44	0.48
1:A:753:TRP:HB2	1:C:217:GLY:H	1.78	0.48
1:B:318:PRO:HD2	1:B:321:MET:HG3	1.95	0.48
1:C:154:LEU:O	1:C:157:TYR:HB3	2.14	0.48
1:C:214:ILE:HG12	1:C:237:LYS:HB2	1.96	0.48
1:C:731:ASP:C	1:C:733:GLU:H	2.19	0.48
1:C:783:ASP:C	1:C:785:LEU:H	2.20	0.48
1:C:977:SER:OG	1:C:1009:MET:HE1	2.14	0.48
1:D:34:GLN:O	1:D:392:THR:HG23	2.13	0.48
1:D:1003:THR:HG23	1:D:1004:GLY:N	2.29	0.48
1:E:246:PHE:O	1:E:249:ILE:HD11	2.13	0.48
1:F:314:GLU:N	1:F:315:PRO:CD	2.76	0.48
1:F:527:TYR:O	1:F:531:VAL:HG23	2.14	0.48
1:F:695:LEU:CD1	1:F:699:ARG:HH22	2.27	0.48
1:F:924:VAL:O	1:F:928:VAL:HG23	2.13	0.48
1:C:142:VAL:CG1	1:C:154:LEU:HD22	2.43	0.48
1:C:166:LEU:HD21	1:C:310:ILE:HG23	1.94	0.48
1:C:687:GLN:CD	1:C:855:GLY:HA3	2.39	0.48
1:D:57:VAL:CG1	1:D:88:MET:HB3	2.43	0.48
1:D:316:PHE:CE2	1:E:687:GLN:HG3	2.48	0.48
1:D:416:VAL:HG11	1:D:497:LEU:HD23	1.96	0.48
1:D:845:GLU:HA	1:D:845:GLU:OE2	2.13	0.48
1:E:108:GLN:O	1:E:111:LEU:HB3	2.12	0.48
1:F:1:MET:O	1:F:2:SER:C	2.57	0.48
1:F:166:LEU:HA	1:F:169:THR:HG22	1.95	0.48
1:F:503:GLY:C	1:F:505:HIS:H	2.21	0.48
1:A:826:ILE:HD12	1:A:827:LEU:N	2.27	0.48
1:B:575:GLN:HE21	1:B:617:PHE:HB2	1.78	0.48
1:B:577:GLN:HG3	1:B:616:ASN:HD21	1.78	0.48
1:E:104:GLN:HE21	1:E:131:LYS:HE2	1.79	0.48
1:E:162:ILE:HG22	1:E:313:LEU:CD1	2.31	0.48
1:E:951:LEU:C	1:E:953:GLU:N	2.71	0.48
1:F:43:ILE:HD11	1:F:107:VAL:HG21	1.93	0.48
1:F:442:LEU:HD12	1:F:486:LEU:HD21	1.96	0.48
1:F:545:TYR:CD1	1:F:1023:PHE:HZ	2.31	0.48
1:A:944:ILE:HD11	1:A:1020:VAL:HB	1.95	0.48
2:A:2026:LMT:H82	2:A:2026:LMT:C12	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:571:VAL:HG23	1:B:668:PRO:HG2	1.96	0.48
1:B:572:LEU:HD23	1:B:573:PHE:N	2.29	0.48
1:B:742:LEU:HA	1:B:745:ILE:HG22	1.96	0.48
1:B:944:ILE:HG22	1:B:969:ARG:CG	2.44	0.48
1:C:156:ASN:OD1	1:C:180:SER:O	2.32	0.48
1:C:162:ILE:O	1:C:165:PRO:HD2	2.14	0.48
1:D:96:GLN:HA	1:D:96:GLN:NE2	2.29	0.48
1:D:162:ILE:CG2	1:D:166:LEU:HD23	2.44	0.48
1:D:262:LEU:HD11	1:D:266:ALA:H	1.79	0.48
1:D:498:LYS:H	1:D:499:PRO:HD3	1.73	0.48
1:D:944:ILE:HD11	1:D:1020:VAL:HB	1.96	0.48
1:E:571:VAL:HG12	1:E:630:MET:SD	2.54	0.48
1:F:1020:VAL:N	1:F:1021:PRO:CD	2.77	0.48
1:A:217:GLY:O	1:A:234:ILE:HG12	2.14	0.48
1:A:356:TYR:HE1	1:A:513:PHE:CZ	2.31	0.48
1:A:808:TRP:CE3	1:D:708:GLN:HB3	2.49	0.48
1:B:156:ASN:ND2	1:B:182:TYR:N	2.62	0.48
1:C:690:VAL:HG11	1:C:694:VAL:HG11	1.95	0.48
1:C:891:TYR:O	1:C:892:GLU:C	2.57	0.48
1:D:356:TYR:O	1:D:356:TYR:HD1	1.96	0.48
1:D:766:ARG:NE	1:E:67:GLN:NE2	2.62	0.48
1:D:909:ILE:C	1:D:911:ALA:N	2.72	0.48
1:D:940:ASN:HB3	1:D:973:ILE:HG22	1.96	0.48
1:E:528:GLU:CD	1:E:967:ARG:HG3	2.39	0.48
1:E:944:ILE:HD11	1:E:1020:VAL:CG1	2.43	0.48
1:F:169:THR:HG23	1:F:172:VAL:HG21	1.95	0.48
1:A:157:TYR:CD1	1:A:321:MET:HE1	2.49	0.48
1:A:724:PRO:CA	1:A:810:TYR:HB2	2.40	0.48
1:A:984:VAL:HG21	1:A:1005:VAL:HG11	1.96	0.48
1:B:571:VAL:HG12	1:B:630:MET:SD	2.53	0.48
1:D:535:LEU:HD22	1:D:963:ILE:HD11	1.94	0.48
1:D:741:SER:OG	1:D:744:ASP:HB2	2.14	0.48
1:E:618:ALA:O	1:E:719:GLY:HA2	2.14	0.48
1:E:742:LEU:HA	1:E:745:ILE:HG22	1.95	0.48
1:F:242:THR:HG22	1:F:245:GLN:OE1	2.14	0.48
1:F:973:ILE:HD11	1:F:1017:ILE:HG22	1.95	0.48
1:A:46:GLN:HG2	1:A:89:THR:HG23	1.96	0.47
1:A:57:VAL:CG1	1:A:88:MET:HB3	2.43	0.47
1:B:578:THR:HG21	1:B:587:THR:HB	1.95	0.47
1:C:612:VAL:HG11	1:C:615:PHE:HB3	1.95	0.47
1:D:376:LEU:O	1:D:379:THR:CG2	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:682:LEU:HD23	1:D:683:PHE:N	2.29	0.47
1:D:730:ILE:HD12	1:D:745:ILE:HD11	1.94	0.47
1:D:730:ILE:CD1	1:D:745:ILE:HD11	2.45	0.47
1:E:185:ARG:NH2	1:E:771:TYR:HB3	2.28	0.47
1:E:550:ALA:O	1:E:553:ILE:HG12	2.13	0.47
1:E:817:ARG:NH1	1:E:817:ARG:CG	2.72	0.47
1:F:190:PRO:HG3	1:F:788:TRP:CE2	2.48	0.47
1:A:13:TRP:CG	2:A:2026:LMT:H22	2.49	0.47
1:A:875:LEU:CD1	1:A:931:LEU:HD11	2.42	0.47
1:A:876:TYR:O	1:A:880:LEU:HD23	2.13	0.47
1:A:940:ASN:HB3	1:A:973:ILE:HG22	1.95	0.47
1:A:996:GLY:N	1:A:999:HIS:CD2	2.81	0.47
1:B:43:ILE:CG2	1:B:107:VAL:HG11	2.20	0.47
1:B:281:PHE:O	1:B:282:ASN:HB2	2.14	0.47
1:C:15:ILE:HG13	1:C:16:ALA:N	2.27	0.47
1:C:190:PRO:HG3	1:C:788:TRP:CE2	2.49	0.47
1:C:699:ARG:NH1	1:C:699:ARG:CG	2.61	0.47
1:D:395:MET:O	1:D:399:VAL:HG12	2.14	0.47
1:D:637:ARG:O	1:D:642:ASN:HB2	2.13	0.47
1:D:745:ILE:O	1:D:749:VAL:HG23	2.14	0.47
1:D:818:TYR:O	1:D:820:GLY:N	2.46	0.47
1:E:343:THR:HA	1:E:346:GLU:HG2	1.95	0.47
1:E:363:ARG:NE	1:E:498:LYS:HE3	2.29	0.47
1:E:821:VAL:HG12	1:E:822:PRO:CD	2.44	0.47
1:E:907:GLY:HA3	1:E:1012:ALA:HB2	1.95	0.47
1:E:929:GLY:HA2	1:E:932:THR:HG22	1.97	0.47
1:F:418:ARG:NH1	1:F:968:MET:HE3	2.28	0.47
1:F:648:ALA:HB1	1:F:714:ARG:NH1	2.28	0.47
1:A:210:GLN:NE2	1:A:249:ILE:HG13	2.29	0.47
1:A:456:MET:HE1	1:A:928:VAL:HG22	1.96	0.47
1:B:4:PHE:CZ	1:B:8:ARG:HD2	2.50	0.47
1:C:34:GLN:O	1:C:392:THR:HG22	2.14	0.47
1:C:185:ARG:HH11	1:C:771:TYR:CB	2.27	0.47
1:D:456:MET:HE1	1:D:928:VAL:HG22	1.95	0.47
1:D:840:MET:HA	1:D:844:GLU:HB2	1.95	0.47
1:E:199:THR:HG22	1:E:201:GLY:H	1.79	0.47
1:E:339:GLU:HG2	1:E:342:LYS:NZ	2.29	0.47
1:E:362:PHE:O	1:E:365:THR:HB	2.13	0.47
1:E:520:PHE:O	1:E:523:THR:HG22	2.14	0.47
1:E:578:THR:CG2	1:E:587:THR:HB	2.45	0.47
1:F:404:LEU:HD13	1:F:449:LEU:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:695:LEU:HD13	1:F:699:ARG:HH12	1.78	0.47
1:F:723:GLU:HG3	1:F:813:PRO:HG3	1.96	0.47
1:A:523:THR:O	1:A:524:THR:C	2.57	0.47
1:A:535:LEU:HD22	1:A:963:ILE:HD11	1.95	0.47
1:B:371:ALA:O	1:B:374:VAL:HG12	2.14	0.47
1:C:150:THR:HG22	1:C:153:ASP:CG	2.39	0.47
1:C:452:VAL:HG22	1:C:883:VAL:CG2	2.44	0.47
1:D:4:PHE:CZ	1:D:8:ARG:HD2	2.49	0.47
1:D:6:ILE:HD12	1:D:6:ILE:H	1.79	0.47
1:D:150:THR:N	1:D:153:ASP:HB2	2.29	0.47
1:D:354:VAL:HG11	1:D:979:ALA:HA	1.97	0.47
1:D:535:LEU:CD2	1:D:963:ILE:HD11	2.44	0.47
1:D:984:VAL:HG21	1:D:1005:VAL:HG11	1.96	0.47
1:E:158:ILE:HG22	1:E:162:ILE:CD1	2.39	0.47
1:E:563:PHE:CD2	1:E:564:LEU:HD22	2.48	0.47
1:E:578:THR:OG1	1:E:579:PRO:HD2	2.14	0.47
1:F:456:MET:HB2	1:F:467:TYR:HB3	1.97	0.47
1:F:587:THR:O	1:F:591:VAL:HG23	2.14	0.47
1:F:687:GLN:CD	1:F:855:GLY:HA3	2.39	0.47
1:F:903:VAL:CG2	1:F:1020:VAL:HG22	2.43	0.47
1:F:939:LYS:HZ3	1:F:976:THR:CG2	2.27	0.47
1:A:156:ASN:ND2	1:A:768:LYS:NZ	2.61	0.47
1:A:400:LEU:HD12	1:A:470:PHE:CZ	2.47	0.47
1:A:465:VAL:O	1:A:469:GLN:HG2	2.15	0.47
1:A:532:ALA:O	1:A:533:SER:C	2.58	0.47
1:B:108:GLN:O	1:B:111:LEU:HB3	2.13	0.47
1:B:480:LEU:O	1:B:483:ILE:HG23	2.14	0.47
1:B:907:GLY:HA2	1:B:1012:ALA:HB2	1.97	0.47
1:C:242:THR:HG22	1:C:245:GLN:OE1	2.15	0.47
1:C:966:CYS:O	1:C:970:LEU:HB2	2.15	0.47
1:D:530:GLY:O	1:D:531:VAL:C	2.57	0.47
1:D:891:TYR:CG	1:D:896:ILE:HD11	2.49	0.47
1:E:281:PHE:O	1:E:282:ASN:HB2	2.14	0.47
1:E:936:LEU:HD12	1:E:1009:MET:CE	2.44	0.47
1:A:314:GLU:N	1:A:315:PRO:CD	2.77	0.47
1:B:317:MET:HE1	1:B:323:VAL:HG23	1.97	0.47
1:B:426:SER:HB2	1:B:427:PRO:HD2	1.97	0.47
1:B:563:PHE:CD2	1:B:564:LEU:HD22	2.49	0.47
1:C:544:ILE:HD11	1:C:1019:TRP:HZ2	1.79	0.47
1:D:10:ILE:O	1:D:10:ILE:HG13	2.13	0.47
1:D:705:LEU:HD13	1:D:849:GLN:OE1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:982:LEU:HD23	1:D:982:LEU:O	2.15	0.47
1:E:572:LEU:HD23	1:E:573:PHE:N	2.29	0.47
1:E:738:LEU:C	1:E:792:ASN:HD21	2.23	0.47
1:F:544:ILE:HD11	1:F:1019:TRP:HZ2	1.80	0.47
1:A:99:ASP:OD2	1:A:101:ASP:HB2	2.15	0.47
1:A:190:PRO:HA	1:A:193:LEU:HB2	1.97	0.47
1:A:396:PHE:HA	1:A:399:VAL:CG1	2.44	0.47
1:A:406:VAL:O	1:A:410:ILE:HG12	2.15	0.47
1:A:456:MET:HE1	1:A:928:VAL:HA	1.97	0.47
1:A:687:GLN:NE2	1:A:821:VAL:HG21	2.30	0.47
1:A:698:ALA:HB2	1:A:851:PRO:HG2	1.95	0.47
1:A:763:ASP:HB3	1:A:768:LYS:HE3	1.96	0.47
1:A:775:ARG:O	1:A:779:ARG:HG2	2.15	0.47
1:A:884:PHE:CA	1:A:901:MET:HE2	2.43	0.47
1:A:958:ILE:HG12	1:A:959:VAL:N	2.29	0.47
1:B:72:ILE:CD1	1:B:75:LEU:HD13	2.42	0.47
1:B:76:ARG:HD3	1:B:863:TYR:CE2	2.49	0.47
1:B:318:PRO:O	1:B:321:MET:HB2	2.15	0.47
1:B:445:ILE:HD12	1:B:939:LYS:HG3	1.97	0.47
1:B:527:TYR:CG	1:B:970:LEU:HD12	2.50	0.47
1:B:592:ASP:CG	1:B:595:ARG:HH12	2.23	0.47
1:B:944:ILE:HD11	1:B:1020:VAL:CG1	2.44	0.47
1:C:314:GLU:N	1:C:315:PRO:CD	2.77	0.47
1:C:406:VAL:HG13	1:C:410:ILE:HG23	1.95	0.47
1:C:587:THR:O	1:C:591:VAL:HG23	2.14	0.47
1:C:872:ALA:HB3	1:C:873:PRO:HD3	1.96	0.47
1:D:85:ASP:OD2	1:D:620:ARG:HG3	2.15	0.47
1:D:227:GLY:O	1:D:229:GLN:HG3	2.15	0.47
1:D:396:PHE:HA	1:D:399:VAL:CG1	2.44	0.47
1:D:456:MET:HE1	1:D:928:VAL:HA	1.97	0.47
1:D:485:ALA:HA	1:D:489:THR:OG1	2.14	0.47
1:D:763:ASP:HB3	1:D:768:LYS:HE3	1.97	0.47
1:D:876:TYR:O	1:D:880:LEU:HD23	2.15	0.47
1:E:298:ASN:O	1:E:302:THR:HG22	2.15	0.47
1:E:380:PHE:CZ	1:E:395:MET:HE1	2.49	0.47
1:E:476:SER:O	1:E:480:LEU:HB2	2.15	0.47
1:E:592:ASP:CG	1:E:595:ARG:HH12	2.23	0.47
1:E:684:LEU:O	1:E:823:ALA:HA	2.15	0.47
1:F:354:VAL:CG2	1:F:982:LEU:HG	2.45	0.47
1:F:891:TYR:O	1:F:892:GLU:C	2.58	0.47
1:A:839:ALA:O	1:A:844:GLU:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:47:VAL:H	1:B:88:MET:CE	2.26	0.47
1:B:896:ILE:N	1:B:897:PRO:HD2	2.30	0.47
1:C:169:THR:HG23	1:C:172:VAL:CG2	2.45	0.47
1:C:443:VAL:O	1:C:447:MET:HB2	2.15	0.47
1:C:723:GLU:HG3	1:C:813:PRO:HG3	1.96	0.47
1:E:34:GLN:CB	1:E:333:VAL:HG22	2.45	0.47
1:E:158:ILE:CG2	1:E:162:ILE:HD11	2.37	0.47
1:E:376:LEU:O	1:E:379:THR:HG22	2.15	0.47
1:F:162:ILE:O	1:F:165:PRO:HD2	2.15	0.47
1:A:197:GLN:HB2	1:A:797:MET:HE3	1.96	0.47
1:A:405:LEU:HD22	1:A:405:LEU:C	2.39	0.47
1:A:419:VAL:CG2	1:A:430:ALA:HB1	2.42	0.47
1:A:563:PHE:CZ	1:A:564:LEU:HD23	2.49	0.47
1:B:158:ILE:HG22	1:B:162:ILE:CD1	2.41	0.47
1:C:26:SER:O	1:C:30:LEU:HG	2.15	0.47
1:C:648:ALA:HB1	1:C:714:ARG:NH1	2.27	0.47
1:D:465:VAL:O	1:D:469:GLN:HG2	2.15	0.47
1:D:523:THR:O	1:D:524:THR:C	2.56	0.47
1:E:34:GLN:HG3	1:E:35:TYR:CD2	2.49	0.47
1:E:577:GLN:HG3	1:E:616:ASN:HD21	1.79	0.47
1:F:34:GLN:O	1:F:392:THR:HG22	2.15	0.47
1:A:370:ILE:HD11	1:A:488:LEU:CD1	2.45	0.47
1:A:741:SER:OG	1:A:744:ASP:HB2	2.15	0.47
1:B:38:ILE:HG13	1:B:462:SER:HB2	1.96	0.47
1:B:179:GLY:HA2	2:B:2033:LMT:O3'	2.15	0.47
1:B:215:SER:HB2	1:C:750:SER:CB	2.44	0.47
1:B:363:ARG:NE	1:B:498:LYS:HE3	2.30	0.47
1:B:618:ALA:O	1:B:719:GLY:HA2	2.15	0.47
1:C:463:THR:HG23	1:C:464:GLY:N	2.30	0.47
1:C:859:THR:HG23	1:C:860:GLY:N	2.30	0.47
1:D:235:ILE:HD13	1:D:235:ILE:H	1.80	0.47
1:D:235:ILE:HD13	1:D:235:ILE:N	2.30	0.47
1:D:524:THR:CG2	1:D:970:LEU:HD12	2.45	0.47
1:D:807:LYS:HG3	1:D:808:TRP:N	2.30	0.47
1:D:952:HIS:CE1	1:D:958:ILE:HG22	2.50	0.47
1:E:318:PRO:O	1:E:321:MET:HB2	2.14	0.47
1:E:412:VAL:HG11	1:E:489:THR:OG1	2.15	0.47
1:E:540:PRO:O	1:E:544:ILE:HG22	2.15	0.47
1:F:150:THR:HG22	1:F:153:ASP:CG	2.40	0.47
1:F:155:SER:O	1:F:159:VAL:HG23	2.14	0.47
1:A:88:MET:SD	1:A:88:MET:C	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:655:PHE:CD2	1:A:663:VAL:HG11	2.49	0.46
1:B:389:SER:O	1:B:394:THR:HG21	2.15	0.46
1:B:550:ALA:O	1:B:553:ILE:HG12	2.14	0.46
1:C:922:ASN:OD1	1:C:926:PHE:HD2	1.98	0.46
1:D:15:ILE:O	1:D:19:ILE:HG13	2.15	0.46
1:D:371:ALA:O	1:D:375:VAL:HG22	2.14	0.46
1:D:930:LEU:O	1:D:933:THR:HG22	2.14	0.46
1:E:207:ILE:HG12	1:E:207:ILE:H	1.61	0.46
1:E:565:PRO:HG3	1:E:923:ASP:HB3	1.96	0.46
1:F:452:VAL:HG22	1:F:883:VAL:CG2	2.44	0.46
1:F:540:PRO:O	1:F:543:LEU:HB2	2.15	0.46
1:F:922:ASN:OD1	1:F:926:PHE:HD2	1.98	0.46
1:A:11:PHE:O	1:A:15:ILE:HG22	2.15	0.46
1:A:90:ILE:HD12	1:A:90:ILE:C	2.39	0.46
1:A:96:GLN:NE2	1:A:96:GLN:HA	2.31	0.46
1:A:354:VAL:HG11	1:A:979:ALA:HA	1.96	0.46
1:A:731:ASP:CB	1:A:734:LYS:HB2	2.37	0.46
1:A:943:LEU:HB3	1:A:969:ARG:HH11	1.80	0.46
1:B:314:GLU:HA	1:B:317:MET:HE2	1.97	0.46
1:B:553:ILE:O	1:B:557:THR:HG23	2.15	0.46
1:B:702:PHE:CE2	1:B:826:ILE:HD12	2.50	0.46
1:B:817:ARG:NH1	1:B:817:ARG:CG	2.71	0.46
1:C:749:VAL:O	1:C:753:TRP:HD1	1.98	0.46
1:C:984:VAL:C	1:C:986:PRO:HD2	2.40	0.46
1:D:158:ILE:HG22	1:D:159:VAL:N	2.29	0.46
1:D:190:PRO:HA	1:D:193:LEU:HB2	1.97	0.46
1:D:493:CYS:HA	1:D:497:LEU:HD22	1.97	0.46
1:D:655:PHE:CD2	1:D:663:VAL:HG11	2.50	0.46
1:E:352:PHE:CD2	1:E:352:PHE:C	2.93	0.46
1:F:150:THR:H	1:F:153:ASP:HB2	1.80	0.46
1:F:453:PHE:CE2	1:F:474:ILE:HD12	2.50	0.46
1:A:186:ILE:HG22	1:A:772:LEU:HD23	1.97	0.46
1:A:356:TYR:CD1	1:A:356:TYR:C	2.93	0.46
1:A:363:ARG:NH1	1:A:496:MET:O	2.49	0.46
1:A:367:ILE:HG12	1:A:368:PRO:CD	2.44	0.46
1:A:371:ALA:O	1:A:375:VAL:HG22	2.14	0.46
1:A:794:LYS:HD3	1:A:794:LYS:HA	1.66	0.46
1:A:909:ILE:C	1:A:911:ALA:N	2.72	0.46
1:B:207:ILE:HG12	1:B:207:ILE:H	1.61	0.46
1:D:90:ILE:HD12	1:D:90:ILE:C	2.39	0.46
1:D:251:LEU:HD13	1:D:262:LEU:HD23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:577:GLN:HE21	1:D:720:MET:HE3	1.79	0.46
1:D:839:ALA:O	1:D:844:GLU:HB2	2.15	0.46
1:E:578:THR:HA	1:E:661:ALA:HA	1.98	0.46
1:E:681:ASP:OD1	1:E:859:THR:HG23	2.16	0.46
1:E:702:PHE:CE2	1:E:826:ILE:HD12	2.50	0.46
1:F:425:LEU:HD23	1:F:426:SER:H	1.81	0.46
1:F:886:CYS:O	1:F:890:LEU:HB2	2.16	0.46
1:F:985:VAL:N	1:F:986:PRO:CD	2.78	0.46
1:A:525:HIS:O	1:A:528:GLU:HB2	2.15	0.46
1:A:810:TYR:CD2	1:A:810:TYR:O	2.69	0.46
1:A:864:GLU:C	1:A:866:ARG:H	2.24	0.46
1:A:982:LEU:HD23	1:A:982:LEU:O	2.16	0.46
1:B:762:ILE:HG22	1:B:767:VAL:HG22	1.97	0.46
1:C:75:LEU:C	1:C:75:LEU:HD23	2.40	0.46
1:C:111:LEU:C	1:C:113:LEU:N	2.71	0.46
1:D:355:MET:CE	1:D:410:ILE:HD11	2.45	0.46
1:D:573:PHE:CB	1:D:666:PHE:HE2	2.29	0.46
1:E:45:VAL:HB	1:E:90:ILE:CG2	2.41	0.46
1:E:575:GLN:HE21	1:E:617:PHE:HB2	1.81	0.46
1:E:753:TRP:CH2	1:E:785:LEU:HG	2.50	0.46
1:E:907:GLY:HA2	1:E:1012:ALA:HB2	1.96	0.46
1:F:171:GLY:HA3	1:F:302:THR:OG1	2.14	0.46
1:A:4:PHE:CZ	1:A:8:ARG:HD2	2.51	0.46
1:A:70:ASN:ND2	1:C:175:PHE:CE1	2.83	0.46
1:A:472:ILE:C	1:A:472:ILE:HD12	2.41	0.46
1:A:682:LEU:HD23	1:A:683:PHE:N	2.30	0.46
1:A:845:GLU:HA	1:A:845:GLU:OE2	2.15	0.46
1:B:339:GLU:HG2	1:B:342:LYS:NZ	2.30	0.46
1:B:673:GLU:O	1:B:674:LEU:C	2.59	0.46
1:B:907:GLY:HA3	1:B:1012:ALA:HB2	1.96	0.46
1:C:527:TYR:CE2	1:C:966:CYS:HB3	2.51	0.46
1:D:303:ALA:HB2	1:D:330:THR:HG21	1.98	0.46
1:D:958:ILE:HG12	1:D:959:VAL:N	2.30	0.46
1:E:61:VAL:CG2	1:E:122:VAL:HG21	2.46	0.46
1:E:318:PRO:HD2	1:E:321:MET:HG3	1.97	0.46
1:E:389:SER:O	1:E:394:THR:HG21	2.16	0.46
1:E:480:LEU:O	1:E:483:ILE:HG23	2.15	0.46
1:E:725:GLN:OE1	1:E:811:GLY:HA3	2.16	0.46
1:F:527:TYR:CE2	1:F:966:CYS:HB3	2.51	0.46
1:F:749:VAL:O	1:F:753:TRP:HD1	1.98	0.46
1:F:753:TRP:CZ2	1:F:785:LEU:HA	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:56:THR:CG2	1:C:213:GLN:HB3	2.37	0.46
1:A:227:GLY:O	1:A:229:GLN:HG3	2.15	0.46
1:A:275:TYR:CD1	1:C:223:PRO:HG3	2.50	0.46
1:A:682:LEU:CD2	1:A:856:TYR:HB2	2.41	0.46
1:A:724:PRO:HA	1:A:810:TYR:CB	2.41	0.46
1:B:137:LEU:HD21	1:B:302:THR:HG23	1.97	0.46
1:B:578:THR:CG2	1:B:587:THR:HB	2.45	0.46
1:B:687:GLN:NE2	1:B:821:VAL:HG21	2.23	0.46
1:B:951:LEU:C	1:B:953:GLU:N	2.73	0.46
1:C:242:THR:CG2	1:C:245:GLN:HG3	2.45	0.46
1:D:188:LEU:HG	1:D:772:LEU:HD21	1.96	0.46
1:E:438:ILE:O	1:E:439:GLN:C	2.58	0.46
1:F:242:THR:CG2	1:F:245:GLN:HG3	2.45	0.46
1:F:595:ARG:O	1:F:599:LEU:N	2.48	0.46
1:F:973:ILE:CD1	1:F:1017:ILE:HG22	2.45	0.46
1:A:395:MET:O	1:A:399:VAL:HG12	2.16	0.46
1:B:738:LEU:C	1:B:792:ASN:HD21	2.24	0.46
1:B:1006:ILE:HG13	1:B:1007:GLY:N	2.29	0.46
1:C:575:GLN:HE21	1:C:666:PHE:HZ	1.63	0.46
1:C:576:VAL:HG22	1:C:663:VAL:HG12	1.97	0.46
1:C:985:VAL:N	1:C:986:PRO:CD	2.79	0.46
1:D:190:PRO:HG3	1:D:788:TRP:CE2	2.51	0.46
1:D:378:GLY:O	1:D:382:VAL:HG23	2.16	0.46
1:E:15:ILE:O	1:E:19:ILE:HG23	2.16	0.46
1:E:399:VAL:O	1:E:402:ILE:HG12	2.16	0.46
1:E:590:VAL:HG11	1:E:661:ALA:CB	2.45	0.46
1:E:944:ILE:HG22	1:E:969:ARG:CG	2.46	0.46
1:E:958:ILE:HG12	1:E:959:VAL:H	1.81	0.46
1:F:58:GLN:O	1:F:63:GLN:HB2	2.15	0.46
1:F:397:GLY:HA3	1:F:473:THR:HG21	1.97	0.46
1:A:85:ASP:HB3	1:A:87:SER:OG	2.16	0.46
1:A:202:ASP:OD1	1:A:791:ARG:NH2	2.44	0.46
1:A:355:MET:HE1	1:A:406:VAL:CG1	2.45	0.46
1:B:376:LEU:O	1:B:379:THR:HG22	2.15	0.46
1:B:540:PRO:O	1:B:544:ILE:HG22	2.15	0.46
1:B:590:VAL:HG11	1:B:661:ALA:CB	2.46	0.46
1:C:90:ILE:C	1:C:90:ILE:HD12	2.41	0.46
1:D:452:VAL:HG11	1:D:931:LEU:O	2.16	0.46
1:D:1009:MET:O	1:D:1013:THR:HG23	2.16	0.46
1:E:800:PHE:CD2	1:E:804:ALA:HB2	2.50	0.46
1:E:942:ILE:O	1:E:946:GLU:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:958:ILE:N	1:E:958:ILE:CD1	2.79	0.46
1:E:1014:VAL:HG12	1:E:1015:LEU:HD12	1.98	0.46
1:F:216:SER:HB2	1:F:234:ILE:HG13	1.97	0.46
1:F:655:PHE:HB3	1:F:663:VAL:HG23	1.97	0.46
1:F:683:PHE:CE1	1:F:818:TYR:CD2	3.04	0.46
1:A:150:THR:N	1:A:153:ASP:HB2	2.30	0.46
1:B:15:ILE:O	1:B:19:ILE:HG23	2.16	0.46
1:B:800:PHE:CD2	1:B:804:ALA:HB2	2.51	0.46
2:B:2033:LMT:O6B	2:B:2033:LMT:H6E	2.16	0.46
1:C:150:THR:H	1:C:153:ASP:HB2	1.80	0.46
1:C:171:GLY:HA3	1:C:302:THR:OG1	2.16	0.46
1:C:540:PRO:O	1:C:543:LEU:HB2	2.16	0.46
1:C:612:VAL:CG1	1:C:615:PHE:HB3	2.46	0.46
1:D:158:ILE:HD13	1:D:162:ILE:HD12	1.97	0.46
1:D:197:GLN:HB3	1:D:797:MET:SD	2.56	0.46
1:D:222:LEU:HA	1:D:223:PRO:C	2.41	0.46
1:D:228:GLN:NE2	1:D:230:LEU:H	2.04	0.46
1:D:434:SER:O	1:D:437:GLN:HG2	2.16	0.46
1:D:840:MET:HA	1:D:844:GLU:CB	2.46	0.46
1:D:891:TYR:OH	1:D:945:VAL:HG13	2.15	0.46
1:D:1022:LEU:HA	1:D:1022:LEU:HD23	1.77	0.46
1:E:2:SER:HB3	1:E:486:LEU:O	2.15	0.46
1:E:904:VAL:HG22	1:E:934:ILE:HD12	1.96	0.46
1:E:1006:ILE:HG13	1:E:1007:GLY:N	2.30	0.46
1:F:75:LEU:C	1:F:75:LEU:HD23	2.41	0.46
1:A:254:ASN:HD21	1:A:258:SER:CB	2.26	0.46
1:A:559:ILE:HA	1:A:560:PRO:HD3	1.78	0.46
1:A:592:ASP:O	1:A:595:ARG:HB2	2.16	0.46
1:A:891:TYR:CG	1:A:896:ILE:HD11	2.51	0.46
1:B:740:VAL:HG23	1:B:792:ASN:ND2	2.31	0.46
1:B:936:LEU:HD12	1:B:1009:MET:HE1	1.98	0.46
1:C:472:ILE:N	1:C:472:ILE:CD1	2.77	0.46
1:C:550:ALA:HA	1:C:553:ILE:CG1	2.46	0.46
1:C:695:LEU:HD13	1:C:699:ARG:HH22	1.81	0.46
1:C:982:LEU:O	1:C:985:VAL:HG22	2.16	0.46
1:D:128:ARG:NH2	1:D:175:PHE:CE2	2.84	0.46
1:D:189:ASP:OD2	1:D:191:ALA:HB3	2.16	0.46
1:D:784:ASP:O	1:D:787:LYS:HB3	2.17	0.46
1:D:943:LEU:HB3	1:D:969:ARG:HH11	1.81	0.46
1:E:125:GLN:HG3	2:E:2033:LMT:O4'	2.16	0.46
1:E:942:ILE:HG12	1:E:942:ILE:H	1.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:490:PRO:O	1:F:493:CYS:HB2	2.16	0.46
1:A:518:ARG:O	1:A:522:SER:HB3	2.16	0.45
1:A:713:GLN:OE1	1:A:832:PRO:HD3	2.16	0.45
1:A:840:MET:HA	1:A:844:GLU:CB	2.46	0.45
1:B:619:GLY:HA3	1:B:720:MET:SD	2.56	0.45
1:B:709:ASN:HA	1:B:710:PRO:HD3	1.81	0.45
1:C:655:PHE:HB3	1:C:663:VAL:HG23	1.97	0.45
1:C:683:PHE:CZ	1:C:818:TYR:CZ	3.05	0.45
1:D:157:TYR:CZ	1:D:317:MET:HG3	2.51	0.45
1:D:249:ILE:H	1:D:262:LEU:N	2.14	0.45
1:D:361:ASN:HB3	1:D:364:ALA:HB3	1.98	0.45
1:D:748:THR:HG21	1:D:790:VAL:HG22	1.97	0.45
1:D:864:GLU:C	1:D:866:ARG:H	2.24	0.45
1:E:133:VAL:O	1:E:292:LYS:HE2	2.16	0.45
1:E:178:PHE:HE2	1:E:277:ILE:HD12	1.81	0.45
1:E:362:PHE:O	1:E:366:LEU:HD23	2.16	0.45
1:E:458:PHE:CE2	2:E:2032:LMT:H52	2.51	0.45
1:F:95:GLU:O	1:F:97:GLY:N	2.47	0.45
1:F:766:ARG:O	1:F:768:LYS:HG3	2.16	0.45
1:F:915:THR:HG23	1:F:920:LEU:HB2	1.98	0.45
1:A:80:SER:OG	1:A:817:ARG:HB2	2.16	0.45
1:A:222:LEU:HA	1:A:223:PRO:C	2.41	0.45
1:A:540:PRO:O	1:A:543:LEU:HG	2.17	0.45
1:A:568:ASP:CB	1:A:634:TRP:CZ3	2.89	0.45
1:A:891:TYR:OH	1:A:942:ILE:HA	2.16	0.45
1:A:958:ILE:HG13	1:A:1025:VAL:HG13	1.98	0.45
1:B:222:LEU:HA	1:B:223:PRO:C	2.40	0.45
1:B:578:THR:OG1	1:B:579:PRO:HD2	2.15	0.45
1:B:676:ASN:HD21	1:B:827:LEU:CD1	2.23	0.45
1:B:958:ILE:HD13	1:B:958:ILE:H	1.80	0.45
1:B:972:PRO:O	1:B:976:THR:HG23	2.16	0.45
1:C:96:GLN:HG3	1:C:462:SER:N	2.31	0.45
1:C:753:TRP:CZ2	1:C:785:LEU:HA	2.51	0.45
1:D:85:ASP:HB3	1:D:87:SER:OG	2.17	0.45
1:D:192:LYS:O	1:D:193:LEU:C	2.59	0.45
1:D:220:GLY:O	1:D:221:GLY:C	2.59	0.45
1:D:578:THR:OG1	1:D:587:THR:HG22	2.16	0.45
1:E:231:ASN:HD21	1:F:584:ALA:H	1.64	0.45
1:E:541:TYR:O	1:E:544:ILE:HG23	2.16	0.45
1:E:705:LEU:HD23	1:E:705:LEU:O	2.17	0.45
1:F:527:TYR:CD2	1:F:970:LEU:HG	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:550:ALA:HA	1:F:553:ILE:CG1	2.45	0.45
1:F:572:LEU:HB3	1:F:629:ILE:HD12	1.97	0.45
1:F:985:VAL:CG2	1:F:986:PRO:HD3	2.44	0.45
1:A:34:GLN:O	1:A:392:THR:HG23	2.16	0.45
1:B:446:ALA:HB2	1:B:482:VAL:HG21	1.99	0.45
1:B:521:LEU:O	1:B:525:HIS:ND1	2.49	0.45
1:B:541:TYR:O	1:B:1019:TRP:HZ3	1.98	0.45
1:B:973:ILE:HD11	1:B:1017:ILE:CG2	2.46	0.45
1:C:90:ILE:HD12	1:C:90:ILE:O	2.17	0.45
1:C:291:ILE:CD1	1:C:306:ILE:HD12	2.44	0.45
1:C:442:LEU:HD12	1:C:486:LEU:HD21	1.96	0.45
1:D:65:ILE:HD13	1:D:66:GLU:N	2.31	0.45
1:D:186:ILE:O	1:D:186:ILE:HG22	2.16	0.45
1:D:780:MET:CE	1:F:224:ALA:HA	2.30	0.45
1:D:792:ASN:HB2	1:D:798:VAL:HG23	1.99	0.45
1:E:137:LEU:HD21	1:E:302:THR:HG23	1.98	0.45
1:E:442:LEU:O	1:E:445:ILE:HG12	2.16	0.45
1:E:972:PRO:O	1:E:976:THR:HG23	2.17	0.45
1:F:169:THR:HG23	1:F:172:VAL:CG2	2.46	0.45
1:F:683:PHE:CZ	1:F:818:TYR:CZ	3.05	0.45
1:F:695:LEU:HD13	1:F:699:ARG:HH22	1.81	0.45
1:A:133:VAL:HG22	1:A:672:LEU:HD13	1.99	0.45
1:A:192:LYS:O	1:A:193:LEU:C	2.58	0.45
1:A:220:GLY:O	1:A:221:GLY:C	2.59	0.45
1:A:887:LEU:HD21	1:A:942:ILE:CD1	2.47	0.45
1:B:45:VAL:HB	1:B:90:ILE:CG2	2.43	0.45
1:B:792:ASN:HB2	1:B:796:GLU:O	2.16	0.45
1:C:10:ILE:O	1:C:14:VAL:HG23	2.17	0.45
1:C:328:ASP:O	1:C:331:PRO:HD2	2.17	0.45
1:C:428:ARG:HB2	1:C:428:ARG:CZ	2.46	0.45
1:D:363:ARG:NH1	1:D:496:MET:O	2.49	0.45
1:E:367:ILE:CD1	1:E:496:MET:HE2	2.38	0.45
1:E:579:PRO:HD3	1:E:660:ASP:O	2.17	0.45
1:E:969:ARG:C	1:E:972:PRO:HD2	2.39	0.45
1:A:15:ILE:O	1:A:19:ILE:HG13	2.16	0.45
1:A:710:PRO:HD3	1:D:807:LYS:NZ	2.32	0.45
1:B:362:PHE:O	1:B:365:THR:HB	2.15	0.45
1:B:399:VAL:O	1:B:402:ILE:HG12	2.17	0.45
1:C:845:GLU:C	1:C:847:VAL:H	2.24	0.45
1:D:43:ILE:HG12	1:D:104:GLN:HA	1.99	0.45
1:D:80:SER:OG	1:D:817:ARG:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:563:PHE:CZ	1:D:564:LEU:HD23	2.52	0.45
1:E:709:ASN:OD1	1:E:710:PRO:HD2	2.17	0.45
1:E:896:ILE:N	1:E:897:PRO:HD2	2.30	0.45
1:E:929:GLY:C	1:E:932:THR:HG22	2.42	0.45
1:F:96:GLN:HG3	1:F:462:SER:N	2.31	0.45
1:F:169:THR:CG2	1:F:306:ILE:HG22	2.47	0.45
1:F:418:ARG:NH1	1:F:968:MET:HB3	2.32	0.45
1:F:1015:LEU:O	1:F:1019:TRP:HD1	1.99	0.45
1:A:355:MET:CE	1:A:410:ILE:HD11	2.46	0.45
1:A:438:ILE:C	1:A:438:ILE:HD12	2.41	0.45
1:A:738:LEU:HD12	1:A:738:LEU:N	2.31	0.45
1:B:390:ILE:HG23	1:B:395:MET:SD	2.56	0.45
1:B:548:ILE:H	1:B:548:ILE:HG12	1.65	0.45
1:C:58:GLN:O	1:C:63:GLN:HB2	2.16	0.45
1:C:397:GLY:HA3	1:C:473:THR:HG21	1.99	0.45
1:C:431:ALA:O	1:C:432:ARG:C	2.59	0.45
1:D:273:GLN:HG3	1:D:771:TYR:HE1	1.81	0.45
1:D:356:TYR:C	1:D:356:TYR:CD1	2.94	0.45
1:E:61:VAL:HG21	1:E:122:VAL:HG21	1.99	0.45
1:E:418:ARG:HG2	1:E:418:ARG:HH11	1.82	0.45
1:E:652:GLN:O	1:E:656:PHE:HB2	2.16	0.45
1:F:90:ILE:C	1:F:90:ILE:HD12	2.42	0.45
1:F:351:VAL:HG22	1:F:979:ALA:O	2.17	0.45
1:F:966:CYS:O	1:F:970:LEU:HB2	2.15	0.45
1:F:981:ILE:HG22	1:F:1006:ILE:HB	1.99	0.45
1:A:227:GLY:H	1:B:585:GLU:CD	2.25	0.45
1:A:273:GLN:HG3	1:A:771:TYR:HE1	1.81	0.45
1:A:415:ASN:O	1:A:416:VAL:C	2.59	0.45
1:A:702:PHE:HZ	1:A:843:VAL:HG13	1.81	0.45
1:C:351:VAL:HG22	1:C:979:ALA:O	2.17	0.45
1:C:550:ALA:HA	1:C:553:ILE:HG12	1.98	0.45
1:C:1020:VAL:N	1:C:1021:PRO:CD	2.80	0.45
1:D:181:GLN:HG3	1:D:768:LYS:NZ	2.32	0.45
1:D:528:GLU:OE2	1:D:967:ARG:NE	2.49	0.45
1:D:538:ARG:O	1:D:539:ALA:HB3	2.17	0.45
1:E:232:ALA:HB1	1:F:724:PRO:O	2.16	0.45
1:F:575:GLN:HE21	1:F:666:PHE:HZ	1.63	0.45
1:F:726:TYR:CZ	1:F:808:TRP:CZ3	3.05	0.45
1:A:211:ASN:OD1	1:A:240:LEU:HG	2.17	0.45
1:A:273:GLN:NE2	1:A:769:ARG:NH1	2.65	0.45
1:A:361:ASN:HB3	1:A:364:ALA:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:538:ARG:O	1:A:539:ALA:HB3	2.16	0.45
1:A:545:TYR:CD1	1:A:1023:PHE:HZ	2.35	0.45
1:A:596:GLU:O	1:A:597:TYR:C	2.60	0.45
1:A:711:ALA:HA	1:A:834:LEU:HD23	1.97	0.45
1:A:971:ARG:HB3	1:A:972:PRO:HD3	1.99	0.45
1:B:8:ARG:N	1:B:9:PRO:HD3	2.31	0.45
1:B:352:PHE:CD2	1:B:352:PHE:C	2.95	0.45
1:B:705:LEU:HD23	1:B:705:LEU:O	2.17	0.45
1:B:864:GLU:O	1:B:865:GLU:C	2.60	0.45
1:C:280:GLN:NE2	1:C:588:GLN:HE22	2.15	0.45
1:C:354:VAL:CG2	1:C:982:LEU:HG	2.46	0.45
1:C:418:ARG:NH1	1:C:968:MET:HB3	2.31	0.45
1:C:438:ILE:C	1:C:440:GLY:N	2.75	0.45
1:D:1:MET:O	1:D:5:PHE:HD1	2.00	0.45
1:D:186:ILE:HG22	1:D:772:LEU:HD23	1.97	0.45
1:D:355:MET:HE1	1:D:406:VAL:CG1	2.46	0.45
1:D:518:ARG:O	1:D:522:SER:N	2.43	0.45
1:D:525:HIS:O	1:D:528:GLU:HB2	2.16	0.45
1:D:775:ARG:O	1:D:779:ARG:HG2	2.16	0.45
1:D:958:ILE:HG13	1:D:1025:VAL:HG13	1.99	0.45
1:E:324:VAL:C	1:E:326:PRO:HD3	2.42	0.45
1:F:2:SER:O	1:F:6:ILE:HG13	2.16	0.45
1:F:175:PHE:C	1:F:175:PHE:CD2	2.94	0.45
1:F:219:LEU:HG	1:F:234:ILE:HG22	1.99	0.45
1:A:891:TYR:OH	1:A:945:VAL:HG13	2.16	0.45
1:B:380:PHE:CE1	1:B:398:MET:HE1	2.51	0.45
1:B:428:ARG:HD2	1:B:428:ARG:N	2.26	0.45
1:B:958:ILE:N	1:B:958:ILE:CD1	2.79	0.45
1:B:1014:VAL:HG12	1:B:1015:LEU:HD12	1.98	0.45
1:C:7:ASP:C	1:C:8:ARG:HG3	2.41	0.45
1:C:61:VAL:HG22	1:C:118:LEU:HD22	1.98	0.45
1:C:216:SER:HB2	1:C:234:ILE:HG13	1.99	0.45
1:C:282:ASN:HD22	1:C:599:LEU:HD11	1.82	0.45
1:C:1015:LEU:O	1:C:1019:TRP:HD1	1.99	0.45
1:D:99:ASP:OD2	1:D:101:ASP:HB2	2.16	0.45
1:D:219:LEU:HD11	1:E:726:TYR:CD2	2.52	0.45
1:D:826:ILE:HD12	1:D:827:LEU:N	2.31	0.45
1:D:971:ARG:HB3	1:D:972:PRO:HD3	1.99	0.45
1:E:30:LEU:HA	1:E:31:PRO:HD2	1.68	0.45
1:E:120:GLN:O	1:E:124:ARG:HG3	2.17	0.45
1:E:195:SER:C	1:E:197:GLN:H	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:313:LEU:O	1:F:317:MET:HG3	2.17	0.45
1:F:428:ARG:CZ	1:F:428:ARG:HB2	2.47	0.45
1:F:431:ALA:O	1:F:432:ARG:C	2.60	0.45
1:F:550:ALA:HA	1:F:553:ILE:HG12	1.99	0.45
1:F:683:PHE:CE1	1:F:818:TYR:CE2	3.05	0.45
1:F:792:ASN:C	1:F:794:LYS:H	2.24	0.45
1:F:798:VAL:HA	1:F:799:PRO:HD3	1.81	0.45
1:A:69:MET:HE1	1:A:107:VAL:HG13	1.99	0.45
1:A:80:SER:HA	1:A:90:ILE:HA	1.97	0.45
1:A:190:PRO:HG3	1:A:788:TRP:CE2	2.52	0.45
1:A:414:GLU:O	1:A:418:ARG:HG3	2.17	0.45
1:A:936:LEU:HD12	1:A:1009:MET:CE	2.46	0.45
1:B:188:LEU:HD23	1:B:266:ALA:HB2	1.99	0.45
1:B:798:VAL:HA	1:B:799:PRO:HD3	1.82	0.45
1:C:34:GLN:HG2	1:C:35:TYR:CD1	2.52	0.45
1:C:595:ARG:O	1:C:599:LEU:HB2	2.16	0.45
1:D:154:LEU:HD12	1:D:286:ALA:HA	1.99	0.45
1:D:415:ASN:O	1:D:416:VAL:C	2.58	0.45
1:D:789:TYR:HE2	1:D:799:PRO:HG3	1.81	0.45
1:E:327:TYR:HD1	1:E:571:VAL:HG11	1.82	0.45
1:E:568:ASP:O	1:E:634:TRP:CH2	2.70	0.45
1:E:776:PRO:C	1:E:778:ALA:H	2.25	0.45
1:E:818:TYR:O	1:E:819:ASN:HB2	2.17	0.45
1:E:944:ILE:HG22	1:E:969:ARG:HG3	1.98	0.45
1:F:845:GLU:C	1:F:847:VAL:H	2.24	0.45
1:F:859:THR:HG23	1:F:860:GLY:N	2.32	0.45
1:A:303:ALA:HB2	1:A:330:THR:HG21	1.99	0.44
1:A:668:PRO:HA	1:A:669:PRO:HD3	1.74	0.44
1:A:794:LYS:O	1:A:796:GLU:N	2.50	0.44
1:B:327:TYR:HD1	1:B:571:VAL:HG11	1.82	0.44
1:B:725:GLN:OE1	1:B:811:GLY:HA3	2.17	0.44
1:B:821:VAL:HG12	1:B:822:PRO:CD	2.43	0.44
1:B:958:ILE:H	1:B:958:ILE:CD1	2.30	0.44
1:C:219:LEU:HG	1:C:234:ILE:HG22	1.98	0.44
1:C:569:GLN:HA	1:C:634:TRP:HH2	1.82	0.44
1:C:595:ARG:O	1:C:599:LEU:N	2.48	0.44
1:D:11:PHE:O	1:D:15:ILE:HG22	2.17	0.44
1:D:234:ILE:HA	1:E:726:TYR:O	2.17	0.44
1:D:358:PHE:CG	1:D:975:MET:HB2	2.52	0.44
1:D:532:ALA:O	1:D:533:SER:C	2.60	0.44
1:D:568:ASP:CB	1:D:634:TRP:CZ3	2.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:738:LEU:HD12	1:D:738:LEU:N	2.31	0.44
1:E:149:MET:HE1	1:E:318:PRO:HG2	1.99	0.44
1:E:527:TYR:CG	1:E:970:LEU:HD12	2.50	0.44
1:E:703:LEU:C	1:E:705:LEU:H	2.25	0.44
1:F:19:ILE:HD11	1:F:374:VAL:HG12	1.98	0.44
1:F:26:SER:O	1:F:30:LEU:HG	2.16	0.44
1:F:45:VAL:HB	1:F:90:ILE:HG13	1.98	0.44
1:F:406:VAL:HG13	1:F:410:ILE:HG23	1.98	0.44
1:A:47:VAL:HG12	1:A:88:MET:HG3	1.99	0.44
1:A:452:VAL:HG11	1:A:931:LEU:O	2.17	0.44
1:A:454:LEU:HD23	1:A:454:LEU:HA	1.73	0.44
1:A:528:GLU:OE2	1:A:967:ARG:NE	2.50	0.44
1:A:573:PHE:CB	1:A:666:PHE:HE2	2.29	0.44
1:A:703:LEU:O	1:A:707:ALA:HB2	2.16	0.44
1:A:794:LYS:HD3	1:A:795:GLY:N	2.31	0.44
1:B:476:SER:O	1:B:480:LEU:HB2	2.17	0.44
1:C:95:GLU:O	1:C:97:GLY:N	2.49	0.44
1:C:683:PHE:CE1	1:C:818:TYR:CD2	3.05	0.44
1:D:185:ARG:NH1	1:D:771:TYR:HB3	2.33	0.44
1:D:228:GLN:OE1	1:E:780:MET:HB3	2.17	0.44
1:E:314:GLU:HA	1:E:317:MET:HE2	1.98	0.44
1:E:409:ALA:O	1:E:413:VAL:HG23	2.17	0.44
1:F:280:GLN:NE2	1:F:588:GLN:HE22	2.16	0.44
1:F:453:PHE:HZ	1:F:932:THR:HB	1.82	0.44
1:F:463:THR:HG23	1:F:464:GLY:N	2.32	0.44
1:A:807:LYS:HG3	1:A:808:TRP:N	2.32	0.44
1:B:133:VAL:O	1:B:292:LYS:HE2	2.16	0.44
1:B:199:THR:HG22	1:B:201:GLY:H	1.81	0.44
1:B:362:PHE:O	1:B:366:LEU:HD23	2.17	0.44
1:B:461:GLY:O	1:B:465:VAL:HG23	2.17	0.44
1:B:541:TYR:O	1:B:544:ILE:HG23	2.17	0.44
1:C:490:PRO:O	1:C:493:CYS:HB2	2.16	0.44
1:C:527:TYR:CD2	1:C:970:LEU:HG	2.52	0.44
1:D:702:PHE:HZ	1:D:843:VAL:HG13	1.82	0.44
1:D:884:PHE:CA	1:D:901:MET:HE2	2.47	0.44
1:E:317:MET:HE1	1:E:323:VAL:HG23	1.99	0.44
1:E:631:LEU:CD1	1:E:644:VAL:HG22	2.47	0.44
1:E:748:THR:HG21	1:E:790:VAL:HG22	2.00	0.44
1:E:792:ASN:HB2	1:E:796:GLU:O	2.16	0.44
1:E:860:GLY:C	1:E:862:SER:N	2.74	0.44
1:F:61:VAL:HG22	1:F:118:LEU:HD22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:569:GLN:HA	1:F:634:TRP:HH2	1.82	0.44
1:F:612:VAL:CG1	1:F:615:PHE:HB3	2.47	0.44
1:A:434:SER:O	1:A:437:GLN:HG2	2.18	0.44
1:A:493:CYS:HA	1:A:497:LEU:HD22	1.99	0.44
1:B:61:VAL:CG2	1:B:122:VAL:HG21	2.47	0.44
1:B:133:VAL:HG12	1:B:135:ASN:OD1	2.18	0.44
1:B:149:MET:HE1	1:B:318:PRO:HG2	1.98	0.44
1:B:709:ASN:OD1	1:B:710:PRO:HD2	2.16	0.44
1:C:306:ILE:HG13	1:C:306:ILE:O	2.17	0.44
1:C:370:ILE:O	1:C:373:PRO:HD2	2.18	0.44
1:C:792:ASN:C	1:C:794:LYS:H	2.24	0.44
1:C:939:LYS:HZ3	1:C:976:THR:CG2	2.31	0.44
1:D:211:ASN:OD1	1:D:240:LEU:HG	2.17	0.44
1:E:72:ILE:CD1	1:E:75:LEU:HD13	2.46	0.44
1:E:188:LEU:HD23	1:E:266:ALA:HB2	1.98	0.44
1:E:541:TYR:O	1:E:1019:TRP:HZ3	1.99	0.44
1:A:689:GLY:O	1:A:690:VAL:C	2.60	0.44
1:A:738:LEU:HD22	1:A:798:VAL:HG11	1.99	0.44
1:A:810:TYR:CZ	1:D:701:LYS:HG2	2.53	0.44
1:A:887:LEU:HD23	1:A:887:LEU:HA	1.78	0.44
1:B:195:SER:C	1:B:197:GLN:H	2.25	0.44
1:B:568:ASP:O	1:B:634:TRP:CH2	2.70	0.44
1:C:278:ASN:HB2	1:C:613:THR:CG2	2.48	0.44
1:C:404:LEU:HD13	1:C:449:LEU:HD13	1.98	0.44
1:C:652:GLN:HG3	1:C:714:ARG:NH1	2.31	0.44
1:D:363:ARG:NH2	2:D:2026:LMT:O3B	2.49	0.44
1:D:414:GLU:O	1:D:418:ARG:HG3	2.17	0.44
1:D:596:GLU:O	1:D:597:TYR:C	2.59	0.44
1:D:861:LEU:O	1:D:865:GLU:HB2	2.18	0.44
1:D:891:TYR:OH	1:D:942:ILE:HA	2.18	0.44
1:E:559:ILE:CD1	1:E:560:PRO:HD2	2.48	0.44
1:E:626:MET:HE3	1:E:626:MET:HB3	1.83	0.44
1:F:594:MET:HE3	1:F:594:MET:HB3	1.83	0.44
1:F:652:GLN:HG3	1:F:714:ARG:NH1	2.32	0.44
1:F:982:LEU:O	1:F:985:VAL:HG22	2.18	0.44
1:A:330:THR:N	1:A:331:PRO:CD	2.80	0.44
1:A:333:VAL:O	1:A:337:ILE:HG12	2.17	0.44
1:A:352:PHE:C	1:A:352:PHE:CD2	2.95	0.44
1:B:189:ASP:HB3	1:B:192:LYS:HB3	1.99	0.44
1:B:223:PRO:HG3	1:C:275:TYR:CD2	2.53	0.44
1:B:314:GLU:N	1:B:315:PRO:CD	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:418:ARG:O	1:B:422:GLU:HG3	2.17	0.44
1:B:980:PHE:CE1	1:B:1009:MET:HE3	2.53	0.44
2:B:2033:LMT:H111	2:B:2033:LMT:H71	1.98	0.44
1:C:186:ILE:CG2	1:C:268:VAL:HG22	2.46	0.44
1:C:407:ASP:CG	1:C:976:THR:HG23	2.43	0.44
1:D:631:LEU:HD22	1:D:644:VAL:HG23	2.00	0.44
1:D:668:PRO:HA	1:D:669:PRO:HD3	1.75	0.44
1:D:957:GLY:O	1:D:958:ILE:C	2.61	0.44
1:F:65:ILE:HD11	1:F:90:ILE:HG12	2.00	0.44
1:F:186:ILE:CG2	1:F:268:VAL:HG22	2.48	0.44
1:F:720:MET:SD	1:F:720:MET:N	2.81	0.44
1:A:166:LEU:HD13	1:A:166:LEU:HA	1.78	0.44
1:A:572:LEU:HD12	1:A:666:PHE:O	2.17	0.44
1:B:133:VAL:CG1	1:B:135:ASN:OD1	2.66	0.44
1:C:39:ALA:HA	1:C:40:PRO:HD3	1.78	0.44
1:C:45:VAL:HB	1:C:90:ILE:HG13	2.00	0.44
1:C:453:PHE:HZ	1:C:932:THR:HB	1.83	0.44
1:C:454:LEU:HA	1:C:454:LEU:HD23	1.58	0.44
1:C:572:LEU:HB3	1:C:629:ILE:HD12	2.00	0.44
1:D:38:ILE:H	1:D:38:ILE:HD13	1.83	0.44
1:D:219:LEU:HG	1:D:234:ILE:HG23	1.99	0.44
1:D:357:LEU:O	1:D:357:LEU:HD22	2.18	0.44
1:D:747:SER:O	1:D:751:ILE:HG13	2.17	0.44
1:D:974:VAL:O	1:D:978:LEU:HB2	2.17	0.44
1:E:544:ILE:O	1:E:548:ILE:HG12	2.17	0.44
1:F:282:ASN:HD22	1:F:599:LEU:HD11	1.83	0.44
1:F:407:ASP:CG	1:F:976:THR:HG23	2.42	0.44
1:A:108:GLN:HA	1:A:111:LEU:HB3	2.00	0.44
1:A:228:GLN:NE2	1:A:230:LEU:H	2.06	0.44
1:B:412:VAL:HG11	1:B:489:THR:OG1	2.18	0.44
1:B:492:LEU:O	1:B:496:MET:HG3	2.18	0.44
1:B:577:GLN:HG3	1:B:616:ASN:ND2	2.32	0.44
1:B:578:THR:HA	1:B:661:ALA:HA	1.99	0.44
1:B:652:GLN:O	1:B:656:PHE:HB2	2.17	0.44
1:B:748:THR:HG21	1:B:790:VAL:HG22	2.00	0.44
1:B:958:ILE:HG12	1:B:959:VAL:H	1.81	0.44
1:B:970:LEU:HD23	1:B:970:LEU:C	2.43	0.44
1:C:19:ILE:HD11	1:C:374:VAL:HG12	1.98	0.44
1:D:3:LYS:HA	1:D:6:ILE:HD13	2.00	0.44
1:D:655:PHE:HD2	1:D:658:PHE:CE2	2.36	0.44
1:D:660:ASP:CG	1:D:661:ALA:H	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:738:LEU:HD22	1:D:798:VAL:HG11	1.98	0.44
1:E:142:VAL:HG12	1:E:288:GLY:HA2	1.99	0.44
1:E:189:ASP:HB3	1:E:192:LYS:HB3	1.98	0.44
1:E:305:ALA:C	1:E:307:ARG:N	2.76	0.44
1:E:414:GLU:HG3	1:E:415:ASN:N	2.33	0.44
1:E:577:GLN:HG3	1:E:616:ASN:ND2	2.33	0.44
1:F:138:MET:O	1:F:291:ILE:HG12	2.18	0.44
1:F:408:ASP:OD1	1:F:445:ILE:HD11	2.18	0.44
1:F:709:ASN:HA	1:F:710:PRO:HD3	1.72	0.44
1:F:755:SER:HB3	1:F:773:GLN:HE21	1.83	0.44
1:A:415:ASN:HB3	1:A:434:SER:HB2	1.99	0.44
1:A:534:ILE:HD11	1:A:1022:LEU:HG	2.00	0.44
1:A:984:VAL:HG13	1:A:987:LEU:HD12	2.00	0.44
1:A:1009:MET:O	1:A:1013:THR:HG23	2.17	0.44
1:B:626:MET:HE3	1:B:626:MET:HB3	1.80	0.44
1:C:102:ILE:HD12	1:C:103:ALA:N	2.33	0.44
1:C:155:SER:O	1:C:159:VAL:HG23	2.18	0.44
1:C:683:PHE:CE1	1:C:818:TYR:CE2	3.05	0.44
1:E:740:VAL:HG23	1:E:792:ASN:ND2	2.32	0.44
1:E:936:LEU:HD12	1:E:1009:MET:HE1	1.99	0.44
1:E:943:LEU:O	1:E:947:PHE:HD1	2.01	0.44
1:F:7:ASP:C	1:F:8:ARG:HG3	2.43	0.44
1:F:281:PHE:CZ	1:F:324:VAL:HG11	2.53	0.44
1:A:237:LYS:HD3	1:B:746:ASN:HD21	1.82	0.43
1:A:332:VAL:HG23	1:A:634:TRP:HZ2	1.83	0.43
1:A:631:LEU:HD22	1:A:644:VAL:HG23	1.99	0.43
1:A:660:ASP:CG	1:A:661:ALA:H	2.25	0.43
1:B:21:LEU:O	1:B:22:ALA:C	2.61	0.43
1:B:240:LEU:HD22	1:B:245:GLN:HE21	1.83	0.43
1:B:942:ILE:O	1:B:946:GLU:HB2	2.17	0.43
1:C:197:GLN:HA	1:C:797:MET:SD	2.58	0.43
1:C:418:ARG:CZ	1:C:968:MET:HB3	2.48	0.43
1:C:425:LEU:HD23	1:C:426:SER:H	1.82	0.43
1:C:504:ASP:O	1:C:505:HIS:C	2.61	0.43
1:C:726:TYR:CZ	1:C:808:TRP:CZ3	3.05	0.43
1:D:39:ALA:HA	1:D:40:PRO:HD3	1.89	0.43
1:D:46:GLN:HG2	1:D:89:THR:HG23	1.98	0.43
1:D:872:ALA:N	1:D:873:PRO:CD	2.81	0.43
1:D:887:LEU:HD21	1:D:942:ILE:CD1	2.47	0.43
1:F:156:ASN:OD1	1:F:180:SER:O	2.36	0.43
1:F:682:LEU:O	1:F:683:PHE:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:175:PHE:HD1	1:A:289:ILE:HD11	1.84	0.43
1:A:745:ILE:O	1:A:749:VAL:HG23	2.17	0.43
1:A:861:LEU:O	1:A:865:GLU:HB2	2.18	0.43
1:A:872:ALA:N	1:A:873:PRO:CD	2.82	0.43
1:B:34:GLN:CB	1:B:333:VAL:HG22	2.48	0.43
1:B:293:LEU:HD13	1:B:294:ALA:O	2.18	0.43
1:B:391:ASN:ND2	1:B:394:THR:H	2.16	0.43
1:B:442:LEU:O	1:B:445:ILE:HG12	2.18	0.43
1:C:15:ILE:HD13	1:C:487:ILE:HD12	2.00	0.43
1:C:300:LEU:O	1:C:304:LYS:HG3	2.18	0.43
1:C:669:PRO:O	1:C:670:SER:C	2.60	0.43
1:C:973:ILE:O	1:C:973:ILE:HG13	2.18	0.43
1:D:526:GLY:O	1:D:527:TYR:C	2.60	0.43
1:D:712:LEU:HD21	1:D:842:ALA:HB1	1.99	0.43
1:D:859:THR:CG2	1:D:860:GLY:N	2.80	0.43
1:E:215:SER:HB2	1:F:750:SER:CB	2.47	0.43
1:E:895:SER:C	1:E:897:PRO:CD	2.90	0.43
1:E:980:PHE:CE1	1:E:1009:MET:HE3	2.53	0.43
2:E:2032:LMT:H1B	2:E:2032:LMT:O3'	2.19	0.43
1:F:424:GLY:HA3	1:F:502:LYS:HG3	2.00	0.43
1:F:578:THR:CG2	1:F:623:SER:HB2	2.46	0.43
1:F:734:LYS:HD3	1:F:802:ALA:O	2.18	0.43
1:A:25:LEU:HD12	1:A:25:LEU:HA	1.86	0.43
1:A:181:GLN:HG3	1:A:768:LYS:NZ	2.33	0.43
1:A:356:TYR:HD1	1:A:356:TYR:C	2.26	0.43
1:A:528:GLU:O	1:A:529:ARG:C	2.60	0.43
1:A:541:TYR:HA	1:A:544:ILE:HG23	1.99	0.43
1:B:150:THR:HG22	1:B:153:ASP:CG	2.44	0.43
1:B:414:GLU:HG3	1:B:415:ASN:N	2.33	0.43
1:B:538:ARG:O	1:B:539:ALA:C	2.62	0.43
1:B:575:GLN:NE2	1:B:617:PHE:HB2	2.34	0.43
1:B:712:LEU:HD21	1:B:843:VAL:CG2	2.48	0.43
1:C:313:LEU:O	1:C:317:MET:HG3	2.18	0.43
1:C:762:ILE:H	1:C:762:ILE:HG12	1.51	0.43
1:D:207:ILE:H	1:D:207:ILE:HG12	1.47	0.43
1:D:379:THR:HA	1:D:382:VAL:HG23	2.00	0.43
1:D:530:GLY:O	1:D:534:ILE:HG22	2.18	0.43
1:D:540:PRO:O	1:D:543:LEU:HG	2.19	0.43
1:E:104:GLN:O	1:E:107:VAL:HG12	2.18	0.43
1:E:222:LEU:HA	1:E:223:PRO:C	2.42	0.43
1:E:690:VAL:O	1:E:691:GLY:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:958:ILE:HD13	1:F:959:VAL:H	1.84	0.43
1:A:219:LEU:HD11	1:B:726:TYR:CD2	2.54	0.43
1:A:234:ILE:HA	1:B:726:TYR:O	2.18	0.43
1:A:317:MET:HE2	1:A:321:MET:CG	2.48	0.43
1:A:317:MET:CE	1:A:321:MET:HE3	2.47	0.43
1:A:358:PHE:CG	1:A:975:MET:HB2	2.53	0.43
1:A:784:ASP:O	1:A:787:LYS:HB3	2.18	0.43
1:A:957:GLY:O	1:A:958:ILE:C	2.60	0.43
1:B:105:VAL:CG1	1:B:106:GLN:N	2.81	0.43
1:B:254:ASN:HB2	1:B:258:SER:OG	2.18	0.43
1:B:520:PHE:O	1:B:523:THR:HG22	2.18	0.43
1:B:544:ILE:O	1:B:548:ILE:HG12	2.18	0.43
1:B:776:PRO:C	1:B:778:ALA:H	2.25	0.43
1:C:438:ILE:O	1:C:440:GLY:N	2.51	0.43
1:C:838:ASP:O	1:C:841:ALA:HB3	2.18	0.43
1:C:848:LYS:C	1:C:850:LEU:H	2.27	0.43
1:D:531:VAL:C	1:D:532:ALA:O	2.62	0.43
1:D:780:MET:HB3	1:F:228:GLN:HE21	1.82	0.43
1:E:240:LEU:HD22	1:E:245:GLN:HE21	1.84	0.43
1:E:375:VAL:O	1:E:379:THR:HB	2.19	0.43
1:E:410:ILE:HD11	1:E:976:THR:CG2	2.32	0.43
1:E:418:ARG:O	1:E:422:GLU:HG3	2.18	0.43
1:E:958:ILE:CD1	1:E:958:ILE:H	2.30	0.43
1:F:99:ASP:O	1:F:102:ILE:HG13	2.18	0.43
1:F:595:ARG:O	1:F:599:LEU:HB2	2.17	0.43
1:A:31:PRO:HG2	1:A:389:SER:HB3	2.00	0.43
1:A:32:VAL:HG22	1:A:390:ILE:HB	2.00	0.43
1:A:131:LYS:NZ	1:B:73:ASP:OD2	2.52	0.43
1:A:184:MET:HG2	1:A:246:PHE:CE1	2.53	0.43
1:A:254:ASN:ND2	1:A:254:ASN:N	2.64	0.43
1:A:881:LEU:HD12	1:A:881:LEU:O	2.19	0.43
1:B:145:THR:HB	1:B:320:GLY:HA2	1.99	0.43
1:B:324:VAL:C	1:B:326:PRO:HD3	2.43	0.43
1:B:579:PRO:HD3	1:B:660:ASP:O	2.19	0.43
1:B:753:TRP:CZ2	1:B:785:LEU:HA	2.42	0.43
1:C:65:ILE:HD11	1:C:90:ILE:HG12	2.00	0.43
1:C:83:ASN:OD1	1:C:814:LYS:HG2	2.18	0.43
1:D:131:LYS:NZ	1:E:73:ASP:OD2	2.51	0.43
1:D:190:PRO:HG2	1:D:787:LYS:HG2	2.01	0.43
1:D:316:PHE:CD2	1:E:687:GLN:HG3	2.54	0.43
1:D:438:ILE:HD12	1:D:438:ILE:C	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:533:SER:O	1:D:537:HIS:N	2.31	0.43
1:D:572:LEU:HD12	1:D:666:PHE:O	2.18	0.43
1:D:592:ASP:O	1:D:595:ARG:HB2	2.18	0.43
1:D:810:TYR:O	1:D:810:TYR:CD2	2.71	0.43
1:E:21:LEU:O	1:E:22:ALA:C	2.61	0.43
1:E:145:THR:HB	1:E:320:GLY:HA2	2.01	0.43
1:F:219:LEU:HG	1:F:234:ILE:CG2	2.48	0.43
1:A:219:LEU:HG	1:A:234:ILE:HG23	2.00	0.43
1:A:594:MET:HG3	1:A:655:PHE:CZ	2.54	0.43
1:B:219:LEU:HD12	1:C:726:TYR:CE1	2.54	0.43
1:B:676:ASN:O	1:B:677:ALA:C	2.62	0.43
1:B:702:PHE:CE2	1:B:826:ILE:CD1	3.02	0.43
1:B:757:TYR:CZ	1:B:769:ARG:HG3	2.53	0.43
1:B:818:TYR:O	1:B:819:ASN:HB2	2.19	0.43
1:B:987:LEU:HD13	1:B:1001:ILE:HD11	2.00	0.43
1:C:219:LEU:HG	1:C:234:ILE:CG2	2.49	0.43
1:C:451:ALA:HB1	1:C:882:VAL:HG12	2.00	0.43
1:C:1013:THR:O	1:C:1017:ILE:HG12	2.19	0.43
1:D:49:TYR:CD1	1:D:52:ALA:HB2	2.53	0.43
1:D:189:ASP:HB2	1:D:775:ARG:HD3	2.01	0.43
1:D:242:THR:CG2	1:D:245:GLN:HG3	2.49	0.43
1:D:310:ILE:HD13	1:D:323:VAL:HG11	2.01	0.43
1:D:355:MET:HE2	1:D:355:MET:HB3	1.74	0.43
1:D:594:MET:HG3	1:D:655:PHE:CZ	2.53	0.43
1:D:650:ARG:HH11	1:D:650:ARG:HB2	1.84	0.43
1:E:125:GLN:NE2	1:E:769:ARG:NH1	2.51	0.43
1:E:520:PHE:C	1:E:523:THR:HG22	2.43	0.43
1:E:619:GLY:HA3	1:E:720:MET:SD	2.59	0.43
1:E:851:PRO:O	1:E:852:LYS:C	2.61	0.43
1:F:368:PRO:HG3	1:F:413:VAL:HG21	2.01	0.43
1:A:70:ASN:HB2	1:C:167:SER:HB2	2.00	0.43
1:A:225:VAL:H	1:B:780:MET:HE2	1.83	0.43
1:B:151:LYS:H	1:B:151:LYS:HD2	1.83	0.43
1:B:178:PHE:HE2	1:B:277:ILE:HD12	1.83	0.43
1:B:470:PHE:O	1:B:473:THR:HG22	2.19	0.43
1:B:478:MET:HE3	1:B:478:MET:HB3	1.93	0.43
1:C:281:PHE:CZ	1:C:324:VAL:HG11	2.54	0.43
1:D:31:PRO:HG2	1:D:389:SER:HB3	2.01	0.43
1:D:69:MET:HE1	1:D:107:VAL:HG13	2.00	0.43
1:D:330:THR:N	1:D:331:PRO:CD	2.82	0.43
1:D:370:ILE:HD11	1:D:488:LEU:CD1	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:415:ASN:HB3	1:D:434:SER:HB2	1.99	0.43
1:D:454:LEU:HA	1:D:454:LEU:HD23	1.74	0.43
1:D:616:ASN:HD22	1:D:616:ASN:HA	1.63	0.43
1:E:105:VAL:HG13	1:E:106:GLN:N	2.34	0.43
1:E:204:SER:O	1:E:207:ILE:HG12	2.19	0.43
1:E:254:ASN:HB2	1:E:258:SER:OG	2.19	0.43
1:E:309:THR:C	1:E:311:ALA:H	2.26	0.43
1:E:412:VAL:HG13	1:E:435:MET:CE	2.49	0.43
1:E:454:LEU:O	1:E:455:PRO:C	2.61	0.43
1:E:712:LEU:HD21	1:E:843:VAL:CG2	2.47	0.43
1:E:1016:ALA:O	1:E:1020:VAL:HG23	2.18	0.43
1:F:10:ILE:O	1:F:14:VAL:HG23	2.19	0.43
1:F:930:LEU:HD23	1:F:930:LEU:HA	1.90	0.43
1:A:189:ASP:HB2	1:A:775:ARG:HD3	2.01	0.43
1:B:391:ASN:ND2	1:B:393:LEU:H	2.13	0.43
1:B:703:LEU:C	1:B:705:LEU:H	2.27	0.43
1:C:626:MET:HE3	1:C:626:MET:HB3	1.90	0.43
1:D:147:GLY:O	1:D:148:SER:C	2.61	0.43
1:D:318:PRO:O	1:D:320:GLY:N	2.51	0.43
1:E:79:SER:HB2	1:E:818:TYR:HD1	1.84	0.43
1:E:108:GLN:HG2	1:F:112:GLN:OE1	2.18	0.43
1:E:515:TRP:CH2	1:E:519:MET:HG3	2.54	0.43
1:E:757:TYR:CZ	1:E:769:ARG:HG3	2.53	0.43
1:F:102:ILE:HD12	1:F:103:ALA:N	2.33	0.43
1:F:438:ILE:C	1:F:440:GLY:N	2.76	0.43
1:F:504:ASP:O	1:F:505:HIS:C	2.61	0.43
1:F:555:MET:O	1:F:559:ILE:HG23	2.19	0.43
1:F:669:PRO:O	1:F:670:SER:C	2.60	0.43
1:A:188:LEU:HG	1:A:772:LEU:HD21	2.00	0.43
1:A:686:ASP:OD1	1:A:686:ASP:C	2.60	0.43
1:B:61:VAL:HG21	1:B:122:VAL:HG21	2.00	0.43
1:B:120:GLN:O	1:B:124:ARG:HG3	2.19	0.43
1:B:228:GLN:HE21	1:B:231:ASN:HD21	1.67	0.43
1:B:682:LEU:HD11	1:B:856:TYR:CD2	2.53	0.43
1:C:563:PHE:CD2	1:C:564:LEU:HG	2.54	0.43
1:C:958:ILE:HD13	1:C:959:VAL:H	1.84	0.43
1:D:108:GLN:HA	1:D:111:LEU:HB3	1.99	0.43
1:D:184:MET:HG2	1:D:246:PHE:CE1	2.54	0.43
1:D:306:ILE:O	1:D:310:ILE:HG23	2.18	0.43
1:D:731:ASP:CB	1:D:734:LYS:HB2	2.38	0.43
1:D:755:SER:HA	1:D:773:GLN:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:143:VAL:HG22	1:E:322:LYS:O	2.19	0.43
1:E:184:MET:HB2	1:E:770:VAL:HG22	2.01	0.43
1:E:330:THR:N	1:E:331:PRO:CD	2.81	0.43
1:E:415:ASN:ND2	1:E:434:SER:HB2	2.26	0.43
1:E:958:ILE:HD13	1:E:958:ILE:H	1.80	0.43
1:F:90:ILE:HD12	1:F:90:ILE:O	2.18	0.43
1:F:99:ASP:HA	1:F:100:PRO:HD3	1.92	0.43
1:F:848:LYS:C	1:F:850:LEU:H	2.26	0.43
1:F:958:ILE:HD13	1:F:958:ILE:N	2.34	0.43
1:A:128:ARG:NH2	1:A:175:PHE:CE2	2.87	0.43
1:A:545:TYR:CE1	1:A:1023:PHE:HZ	2.37	0.43
1:A:655:PHE:HD2	1:A:658:PHE:CE2	2.36	0.43
1:A:1022:LEU:HD23	1:A:1022:LEU:HA	1.76	0.43
1:B:79:SER:HB2	1:B:818:TYR:HD1	1.83	0.43
1:B:142:VAL:HG12	1:B:288:GLY:HA2	2.00	0.43
1:B:158:ILE:O	1:B:163:GLN:HB2	2.19	0.43
1:B:164:ASP:HB3	1:B:165:PRO:HD3	2.01	0.43
1:B:303:ALA:O	1:B:307:ARG:HB2	2.19	0.43
1:B:410:ILE:HD11	1:B:976:THR:CG2	2.31	0.43
1:B:688:ALA:O	1:B:689:GLY:C	2.62	0.43
1:C:671:VAL:O	1:C:674:LEU:HB2	2.19	0.43
1:C:695:LEU:O	1:C:698:ALA:HB3	2.19	0.43
1:C:725:GLN:CD	1:C:811:GLY:HA3	2.44	0.43
1:C:929:GLY:HA2	1:C:932:THR:CG2	2.49	0.43
1:D:210:GLN:CD	1:D:249:ILE:HG13	2.44	0.43
1:D:318:PRO:C	1:D:320:GLY:H	2.26	0.43
1:D:332:VAL:HG23	1:D:634:TRP:HZ2	1.83	0.43
1:D:400:LEU:HD12	1:D:470:PHE:CZ	2.47	0.43
1:D:683:PHE:CZ	1:D:825:GLU:HB2	2.54	0.43
1:E:8:ARG:N	1:E:9:PRO:HD3	2.34	0.43
1:E:105:VAL:CG1	1:E:106:GLN:N	2.81	0.43
1:E:470:PHE:O	1:E:473:THR:HG22	2.18	0.43
1:E:574:ALA:HB1	1:E:594:MET:HE1	2.01	0.43
1:E:987:LEU:HD13	1:E:1001:ILE:HD11	2.01	0.43
1:F:111:LEU:O	1:F:113:LEU:N	2.51	0.43
1:F:300:LEU:O	1:F:304:LYS:HG3	2.19	0.43
1:F:695:LEU:O	1:F:698:ALA:HB3	2.19	0.43
1:A:682:LEU:HD21	1:A:856:TYR:HD1	1.84	0.42
1:A:711:ALA:HA	1:A:834:LEU:CD2	2.49	0.42
1:B:352:PHE:CD1	1:B:365:THR:CG2	3.02	0.42
1:B:515:TRP:CH2	1:B:519:MET:HG3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2033:LMT:H62	2:B:2033:LMT:C12	2.46	0.42
1:C:456:MET:HB2	1:C:467:TYR:HB3	2.00	0.42
1:C:903:VAL:O	1:C:906:LEU:HB2	2.18	0.42
1:D:682:LEU:CD2	1:D:856:TYR:HB2	2.44	0.42
1:D:776:PRO:O	1:D:780:MET:HG2	2.19	0.42
1:D:936:LEU:HD12	1:D:1009:MET:CE	2.48	0.42
1:E:228:GLN:HE21	1:E:231:ASN:HD21	1.68	0.42
1:E:521:LEU:O	1:E:525:HIS:ND1	2.50	0.42
1:E:726:TYR:HE2	1:E:785:LEU:CD1	2.32	0.42
1:E:762:ILE:HG22	1:E:767:VAL:HG22	2.00	0.42
1:E:864:GLU:O	1:E:865:GLU:C	2.62	0.42
1:F:194:ASN:C	1:F:196:TYR:H	2.27	0.42
1:F:725:GLN:CD	1:F:811:GLY:HA3	2.44	0.42
1:A:76:ARG:HD3	1:A:95:GLU:OE1	2.19	0.42
1:A:634:TRP:O	1:A:638:PRO:HG3	2.19	0.42
1:A:695:LEU:HD13	1:A:699:ARG:NH2	2.34	0.42
1:A:794:LYS:CD	1:A:795:GLY:H	2.29	0.42
1:A:1001:ILE:CG2	1:A:1002:GLY:N	2.82	0.42
1:B:105:VAL:HG13	1:B:106:GLN:N	2.33	0.42
1:B:204:SER:O	1:B:207:ILE:HG12	2.19	0.42
1:B:412:VAL:HG22	1:B:435:MET:HE1	2.02	0.42
1:B:541:TYR:O	1:B:1019:TRP:CZ3	2.72	0.42
1:B:840:MET:O	1:B:844:GLU:HG3	2.19	0.42
1:B:860:GLY:C	1:B:862:SER:N	2.76	0.42
1:C:324:VAL:HG12	1:C:325:TYR:N	2.34	0.42
1:C:667:ALA:HA	1:C:668:PRO:HD3	1.84	0.42
1:C:712:LEU:HD12	1:C:715:VAL:HG21	2.00	0.42
1:D:453:PHE:CG	1:D:474:ILE:HD11	2.54	0.42
1:D:969:ARG:O	1:D:972:PRO:HD2	2.19	0.42
1:E:280:GLN:HB2	1:E:611:THR:HG23	2.00	0.42
1:E:375:VAL:HG22	1:E:484:VAL:HG21	2.01	0.42
1:E:445:ILE:HD12	1:E:939:LYS:HG3	2.00	0.42
1:E:569:GLN:O	1:E:571:VAL:N	2.45	0.42
1:F:185:ARG:HD3	1:F:771:TYR:HB2	2.01	0.42
1:F:438:ILE:O	1:F:440:GLY:N	2.53	0.42
1:F:757:TYR:OH	1:F:760:ASP:OD1	2.33	0.42
1:F:803:PHE:O	1:F:804:ALA:HB2	2.19	0.42
1:A:655:PHE:CG	1:A:663:VAL:HG11	2.55	0.42
1:A:683:PHE:CZ	1:A:825:GLU:HB2	2.54	0.42
1:A:694:VAL:O	1:A:697:GLN:HB3	2.20	0.42
1:A:884:PHE:CB	1:A:901:MET:HE2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:228:GLN:NE2	1:B:231:ASN:HD21	2.17	0.42
1:B:412:VAL:HG13	1:B:435:MET:CE	2.49	0.42
1:B:442:LEU:HD23	1:B:442:LEU:HA	1.89	0.42
1:B:631:LEU:CD1	1:B:644:VAL:HG22	2.49	0.42
1:C:520:PHE:C	1:C:522:SER:N	2.77	0.42
1:C:545:TYR:CE1	1:C:1023:PHE:HZ	2.37	0.42
1:C:734:LYS:HD3	1:C:802:ALA:O	2.18	0.42
1:C:755:SER:HB3	1:C:773:GLN:HE21	1.83	0.42
1:D:88:MET:SD	1:D:88:MET:C	3.02	0.42
1:D:110:LYS:HD2	1:D:110:LYS:HA	1.85	0.42
1:E:150:THR:HG22	1:E:153:ASP:CG	2.44	0.42
1:E:172:VAL:HG22	1:E:306:ILE:CG2	2.49	0.42
1:E:352:PHE:CD1	1:E:365:THR:CG2	3.03	0.42
1:E:681:ASP:CB	1:E:827:LEU:HD13	2.44	0.42
1:E:970:LEU:HD23	1:E:970:LEU:C	2.44	0.42
2:E:2033:LMT:H111	2:E:2033:LMT:C7	2.48	0.42
1:F:184:MET:H	1:F:761:PHE:HE1	1.67	0.42
1:F:291:ILE:CD1	1:F:306:ILE:HD12	2.45	0.42
1:F:903:VAL:O	1:F:906:LEU:HB2	2.19	0.42
1:A:480:LEU:HA	1:A:480:LEU:HD23	1.78	0.42
1:A:532:ALA:O	1:A:535:LEU:N	2.36	0.42
1:A:810:TYR:CD2	1:A:810:TYR:C	2.97	0.42
1:A:906:LEU:HD23	1:A:906:LEU:N	2.33	0.42
1:A:944:ILE:HD11	1:A:1020:VAL:CG1	2.50	0.42
1:B:30:LEU:HD23	1:B:31:PRO:HD2	2.02	0.42
1:B:62:VAL:HG23	1:B:88:MET:HG3	1.99	0.42
1:B:172:VAL:HG22	1:B:306:ILE:CG2	2.50	0.42
1:B:227:GLY:O	1:B:228:GLN:C	2.61	0.42
1:B:298:ASN:O	1:B:302:THR:HG22	2.17	0.42
1:B:409:ALA:O	1:B:413:VAL:HG23	2.19	0.42
1:B:568:ASP:HB3	1:B:634:TRP:CZ3	2.37	0.42
1:B:942:ILE:HG12	1:B:942:ILE:H	1.50	0.42
1:C:424:GLY:HA3	1:C:502:LYS:HG3	2.01	0.42
1:C:690:VAL:HB	1:C:691:GLY:H	1.64	0.42
1:C:803:PHE:O	1:C:804:ALA:HB2	2.19	0.42
1:D:154:LEU:CD1	1:D:286:ALA:HA	2.48	0.42
1:D:168:ARG:HD3	1:E:75:LEU:HD21	2.02	0.42
1:D:225:VAL:H	1:E:780:MET:HE2	1.84	0.42
1:D:568:ASP:O	1:D:569:GLN:HB2	2.20	0.42
1:D:610:PHE:HB3	1:D:628:PHE:HB2	2.00	0.42
1:D:686:ASP:C	1:D:686:ASP:OD1	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:815:LEU:HD12	1:D:815:LEU:HA	1.89	0.42
1:E:55:GLU:HG2	1:E:815:LEU:HD11	2.01	0.42
1:E:151:LYS:H	1:E:151:LYS:HD2	1.84	0.42
1:E:446:ALA:HB2	1:E:482:VAL:HG21	2.01	0.42
1:E:461:GLY:O	1:E:465:VAL:HG23	2.19	0.42
1:E:515:TRP:O	1:E:519:MET:HG2	2.19	0.42
1:E:538:ARG:O	1:E:539:ALA:C	2.62	0.42
1:E:753:TRP:CZ2	1:E:785:LEU:HA	2.42	0.42
1:E:840:MET:O	1:E:844:GLU:HG3	2.19	0.42
1:E:909:ILE:HG13	1:E:910:GLY:N	2.34	0.42
1:F:83:ASN:OD1	1:F:814:LYS:HG2	2.20	0.42
1:A:167:SER:O	1:B:70:ASN:HB2	2.19	0.42
1:A:185:ARG:NH1	1:A:771:TYR:HB3	2.34	0.42
1:A:453:PHE:CG	1:A:474:ILE:HD11	2.54	0.42
1:A:568:ASP:O	1:A:569:GLN:HB2	2.19	0.42
1:A:859:THR:CG2	1:A:860:GLY:N	2.81	0.42
1:B:330:THR:N	1:B:331:PRO:CD	2.82	0.42
1:B:370:ILE:O	1:B:373:PRO:HD2	2.20	0.42
1:B:726:TYR:HE2	1:B:785:LEU:CD1	2.32	0.42
1:B:890:LEU:HD13	1:B:891:TYR:CE2	2.54	0.42
1:B:929:GLY:HA2	1:B:932:THR:HG22	2.02	0.42
2:B:2032:LMT:H72	2:B:2032:LMT:H101	1.74	0.42
1:C:5:PHE:CD1	1:C:487:ILE:HG23	2.55	0.42
1:D:100:PRO:HB3	1:D:295:THR:CG2	2.49	0.42
1:D:223:PRO:O	1:E:779:ARG:NH2	2.52	0.42
1:D:682:LEU:HD21	1:D:856:TYR:HD1	1.84	0.42
1:E:89:THR:HG21	2:E:2033:LMT:H82	2.02	0.42
1:E:314:GLU:N	1:E:315:PRO:CD	2.82	0.42
1:E:812:SER:HA	1:E:813:PRO:HD3	1.73	0.42
1:F:88:MET:SD	1:F:88:MET:C	3.03	0.42
1:F:563:PHE:CD2	1:F:564:LEU:HG	2.55	0.42
1:F:578:THR:HG22	1:F:623:SER:CB	2.46	0.42
1:F:1013:THR:O	1:F:1017:ILE:HG12	2.20	0.42
1:A:49:TYR:CD1	1:A:52:ALA:HB2	2.55	0.42
1:A:306:ILE:O	1:A:310:ILE:HG23	2.20	0.42
1:A:531:VAL:C	1:A:532:ALA:O	2.63	0.42
1:A:578:THR:OG1	1:A:587:THR:HG22	2.19	0.42
1:A:755:SER:HA	1:A:773:GLN:HG3	2.00	0.42
1:B:564:LEU:HD21	1:B:670:SER:HB3	2.01	0.42
1:B:1001:ILE:O	1:B:1005:VAL:HG23	2.19	0.42
1:C:17:LEU:HD23	1:C:20:MET:CE	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1005:VAL:HG12	1:C:1006:ILE:N	2.35	0.42
1:D:70:ASN:ND2	1:F:175:PHE:CE1	2.87	0.42
1:D:164:ASP:HB2	1:D:165:PRO:HD3	2.01	0.42
1:D:352:PHE:CD2	1:D:352:PHE:C	2.97	0.42
1:D:958:ILE:HD13	1:D:958:ILE:N	2.35	0.42
1:E:30:LEU:HD23	1:E:31:PRO:HD2	2.02	0.42
1:E:303:ALA:O	1:E:307:ARG:HB2	2.19	0.42
1:E:380:PHE:CE1	1:E:398:MET:HE1	2.54	0.42
1:F:306:ILE:HG13	1:F:306:ILE:O	2.19	0.42
1:F:520:PHE:C	1:F:522:SER:N	2.77	0.42
1:F:695:LEU:HD12	1:F:696:LEU:N	2.34	0.42
1:A:747:SER:O	1:A:751:ILE:HG13	2.20	0.42
1:A:885:LEU:HA	1:A:885:LEU:HD12	1.77	0.42
1:B:56:THR:O	1:B:56:THR:HG22	2.20	0.42
1:B:309:THR:C	1:B:311:ALA:H	2.26	0.42
1:B:367:ILE:H	1:B:367:ILE:HG12	1.63	0.42
1:B:454:LEU:HD23	1:B:454:LEU:HA	1.82	0.42
1:C:94:PHE:HB3	1:C:98:THR:HG21	2.02	0.42
1:C:194:ASN:C	1:C:196:TYR:H	2.27	0.42
1:C:324:VAL:C	1:C:326:PRO:HD3	2.45	0.42
1:C:667:ALA:O	1:C:678:THR:HG22	2.19	0.42
1:C:695:LEU:HD12	1:C:696:LEU:N	2.35	0.42
1:C:789:TYR:HE2	1:C:799:PRO:HG3	1.85	0.42
1:C:958:ILE:HD13	1:C:958:ILE:N	2.35	0.42
1:C:981:ILE:HG22	1:C:1006:ILE:HB	2.00	0.42
1:D:528:GLU:O	1:D:529:ARG:C	2.62	0.42
1:E:237:LYS:NZ	1:F:742:LEU:HD22	2.35	0.42
1:E:391:ASN:ND2	1:E:393:LEU:H	2.16	0.42
1:E:455:PRO:HG2	1:E:879:SER:HB3	2.02	0.42
1:E:616:ASN:ND2	1:E:624:SER:HB2	2.35	0.42
1:A:65:ILE:HD13	1:A:66:GLU:N	2.34	0.42
1:A:186:ILE:HG22	1:A:186:ILE:O	2.18	0.42
1:A:415:ASN:HA	1:A:418:ARG:HD2	2.01	0.42
1:A:681:ASP:OD1	1:A:859:THR:HG22	2.20	0.42
1:A:792:ASN:O	1:A:793:ASP:C	2.63	0.42
1:A:887:LEU:CD2	1:A:942:ILE:HD12	2.50	0.42
1:A:974:VAL:O	1:A:978:LEU:HB2	2.20	0.42
1:B:69:MET:HE1	1:B:107:VAL:O	2.20	0.42
1:B:278:ASN:O	1:B:612:VAL:HA	2.19	0.42
1:B:329:THR:O	1:B:333:VAL:HG23	2.20	0.42
1:B:454:LEU:O	1:B:455:PRO:C	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:895:SER:C	1:B:897:PRO:CD	2.92	0.42
1:B:1011:THR:O	1:B:1015:LEU:HB2	2.20	0.42
1:C:138:MET:O	1:C:291:ILE:HG12	2.20	0.42
1:C:368:PRO:HG3	1:C:413:VAL:HG21	2.00	0.42
1:C:555:MET:O	1:C:559:ILE:HG23	2.19	0.42
1:C:698:ALA:O	1:C:702:PHE:HB2	2.19	0.42
1:C:861:LEU:O	1:C:861:LEU:HD23	2.20	0.42
1:D:137:LEU:HD11	1:D:330:THR:HG23	2.02	0.42
1:D:336:SER:O	1:D:340:VAL:HG23	2.19	0.42
1:D:745:ILE:HA	1:D:748:THR:HG22	2.02	0.42
1:D:984:VAL:HG13	1:D:987:LEU:HD12	2.00	0.42
1:E:49:TYR:C	1:E:49:TYR:CD1	2.98	0.42
1:E:113:LEU:HD12	1:E:113:LEU:HA	1.88	0.42
1:E:702:PHE:CE2	1:E:826:ILE:CD1	3.03	0.42
1:E:910:GLY:HA3	1:E:1011:THR:CG2	2.50	0.42
1:A:210:GLN:CD	1:A:249:ILE:HG13	2.45	0.42
1:A:530:GLY:O	1:A:534:ILE:HG22	2.19	0.42
1:A:616:ASN:N	1:A:619:GLY:O	2.50	0.42
1:A:910:GLY:HA3	1:A:1011:THR:HG21	2.02	0.42
1:B:48:SER:O	1:B:50:PRO:HD3	2.20	0.42
1:B:559:ILE:CD1	1:B:560:PRO:HD2	2.49	0.42
1:B:944:ILE:HD11	1:B:1020:VAL:HB	2.02	0.42
1:C:133:VAL:HG12	1:C:135:ASN:N	2.31	0.42
1:C:843:VAL:O	1:C:847:VAL:HG23	2.20	0.42
1:D:70:ASN:HB2	1:F:167:SER:HB2	2.01	0.42
1:D:181:GLN:H	1:D:181:GLN:HE21	1.67	0.42
1:D:188:LEU:HG	1:D:772:LEU:CD2	2.50	0.42
1:D:541:TYR:HA	1:D:544:ILE:HG23	2.00	0.42
1:D:542:LEU:HD12	1:D:1022:LEU:HD13	2.02	0.42
1:D:753:TRP:HZ3	1:D:779:ARG:CB	2.29	0.42
1:E:204:SER:O	1:E:208:GLN:HG3	2.20	0.42
1:E:412:VAL:HG22	1:E:435:MET:HE1	2.01	0.42
1:F:328:ASP:O	1:F:331:PRO:HD2	2.19	0.42
1:F:418:ARG:CZ	1:F:968:MET:HB3	2.49	0.42
1:A:13:TRP:CE2	2:A:2026:LMT:C1	3.03	0.42
1:A:242:THR:CG2	1:A:245:GLN:HG3	2.48	0.42
1:A:275:TYR:CG	1:C:223:PRO:HG3	2.55	0.42
1:A:341:VAL:O	1:A:344:LEU:HB2	2.20	0.42
1:A:541:TYR:C	1:A:543:LEU:N	2.78	0.42
1:A:898:PHE:C	1:A:900:VAL:N	2.77	0.42
1:B:222:LEU:HD12	1:C:276:SER:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:375:VAL:O	1:B:379:THR:HB	2.20	0.42
1:B:587:THR:HG23	1:B:588:GLN:N	2.35	0.42
1:B:616:ASN:ND2	1:B:624:SER:HB2	2.35	0.42
1:C:749:VAL:HG22	1:C:800:PHE:HZ	1.85	0.42
1:D:396:PHE:HA	1:D:399:VAL:HG12	2.02	0.42
1:D:944:ILE:HD11	1:D:1020:VAL:CG1	2.50	0.42
1:D:976:THR:CG2	1:D:977:SER:N	2.83	0.42
1:E:69:MET:HE1	1:E:107:VAL:O	2.19	0.42
1:E:227:GLY:O	1:E:228:GLN:C	2.62	0.42
1:E:228:GLN:NE2	1:E:231:ASN:HD21	2.17	0.42
1:E:303:ALA:HB2	1:E:330:THR:HG21	2.01	0.42
1:E:367:ILE:HB	1:E:368:PRO:CD	2.40	0.42
1:F:34:GLN:HG2	1:F:35:TYR:CD1	2.55	0.42
1:F:278:ASN:HB2	1:F:613:THR:CG2	2.50	0.42
1:F:671:VAL:O	1:F:674:LEU:HB2	2.20	0.42
1:F:698:ALA:O	1:F:702:PHE:HB2	2.20	0.42
1:A:253:VAL:HG12	1:A:259:GLN:CB	2.37	0.41
1:A:348:ILE:C	1:A:348:ILE:HD13	2.45	0.41
1:A:354:VAL:HG11	1:A:979:ALA:CA	2.50	0.41
1:A:356:TYR:O	1:A:356:TYR:CD1	2.72	0.41
1:A:538:ARG:C	1:A:540:PRO:CD	2.93	0.41
1:A:866:ARG:HD2	1:A:866:ARG:HA	1.78	0.41
1:A:930:LEU:HD23	1:A:930:LEU:HA	1.83	0.41
1:B:150:THR:O	1:B:151:LYS:C	2.64	0.41
1:B:280:GLN:HB2	1:B:611:THR:HG23	2.02	0.41
1:B:303:ALA:HB2	1:B:330:THR:HG21	2.01	0.41
1:B:418:ARG:CZ	1:B:968:MET:CE	2.97	0.41
1:B:435:MET:CE	1:B:490:PRO:HG3	2.44	0.41
1:B:943:LEU:O	1:B:947:PHE:HD1	2.02	0.41
1:D:47:VAL:HG12	1:D:88:MET:HG3	2.00	0.41
1:D:175:PHE:HD1	1:D:289:ILE:HD11	1.84	0.41
1:D:356:TYR:HD1	1:D:356:TYR:C	2.27	0.41
1:D:881:LEU:HD12	1:D:881:LEU:O	2.20	0.41
1:D:964:GLU:O	1:D:965:ALA:C	2.63	0.41
1:E:182:TYR:HD2	1:E:271:GLY:O	2.03	0.41
1:E:199:THR:HG22	1:E:201:GLY:N	2.35	0.41
1:E:746:ASN:O	1:E:749:VAL:HG12	2.19	0.41
1:F:39:ALA:HA	1:F:40:PRO:HD3	1.78	0.41
1:F:488:LEU:HD22	1:F:492:LEU:HG	2.02	0.41
1:F:520:PHE:O	1:F:524:THR:HG23	2.20	0.41
1:F:712:LEU:HD12	1:F:715:VAL:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1013:THR:O	1:F:1017:ILE:HG23	2.20	0.41
1:A:378:GLY:O	1:A:382:VAL:HG23	2.20	0.41
1:A:453:PHE:CE2	1:A:932:THR:HG22	2.54	0.41
1:A:789:TYR:HE2	1:A:799:PRO:HG3	1.81	0.41
1:A:964:GLU:O	1:A:965:ALA:C	2.63	0.41
1:B:237:LYS:NZ	1:C:742:LEU:HD22	2.35	0.41
1:B:278:ASN:HB2	1:B:588:GLN:HE21	1.85	0.41
1:B:534:ILE:CG2	1:B:1022:LEU:HD23	2.44	0.41
1:B:685:GLN:HE22	1:B:818:TYR:HD2	1.66	0.41
1:B:958:ILE:CG1	1:B:959:VAL:N	2.82	0.41
1:C:652:GLN:HE22	1:C:664:PHE:HB3	1.85	0.41
1:C:939:LYS:NZ	1:C:976:THR:HG21	2.35	0.41
1:D:634:TRP:O	1:D:638:PRO:HG3	2.20	0.41
1:D:866:ARG:HD2	1:D:866:ARG:HA	1.78	0.41
1:D:969:ARG:C	1:D:972:PRO:HD2	2.45	0.41
1:E:587:THR:HG23	1:E:588:GLN:N	2.35	0.41
1:E:890:LEU:HD13	1:E:891:TYR:CE2	2.55	0.41
1:E:944:ILE:HD11	1:E:1020:VAL:HB	2.02	0.41
1:E:1011:THR:O	1:E:1015:LEU:HB2	2.21	0.41
1:F:197:GLN:HA	1:F:797:MET:SD	2.60	0.41
1:F:324:VAL:HG12	1:F:325:TYR:N	2.35	0.41
1:F:541:TYR:C	1:F:543:LEU:N	2.76	0.41
1:F:559:ILE:HA	1:F:560:PRO:HD3	1.87	0.41
1:F:652:GLN:HE22	1:F:664:PHE:HB3	1.86	0.41
1:F:667:ALA:HA	1:F:668:PRO:HD3	1.83	0.41
1:F:749:VAL:HG22	1:F:800:PHE:HZ	1.84	0.41
1:F:838:ASP:O	1:F:841:ALA:HB3	2.20	0.41
1:A:147:GLY:O	1:A:148:SER:C	2.62	0.41
1:A:155:SER:OG	1:A:180:SER:N	2.54	0.41
1:A:470:PHE:CE2	1:A:928:VAL:HG13	2.56	0.41
1:A:524:THR:CG2	1:A:970:LEU:HD12	2.48	0.41
1:A:526:GLY:O	1:A:527:TYR:C	2.62	0.41
1:A:578:THR:CG2	1:A:579:PRO:CD	2.94	0.41
1:A:753:TRP:HZ3	1:A:779:ARG:CB	2.28	0.41
1:B:62:VAL:O	1:B:63:GLN:C	2.63	0.41
1:B:108:GLN:HG2	1:C:112:GLN:OE1	2.20	0.41
1:B:204:SER:O	1:B:208:GLN:HG3	2.19	0.41
1:B:563:PHE:O	1:B:923:ASP:HA	2.20	0.41
1:B:784:ASP:HA	1:B:787:LYS:HE3	2.02	0.41
1:C:357:LEU:O	1:C:357:LEU:HD22	2.20	0.41
1:C:930:LEU:HD23	1:C:930:LEU:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:348:ILE:HD13	1:D:348:ILE:C	2.45	0.41
1:D:545:TYR:CD1	1:D:1023:PHE:HZ	2.38	0.41
1:E:44:ALA:CB	1:E:132:ALA:HB2	2.50	0.41
1:E:186:ILE:CG2	1:E:268:VAL:HG22	2.48	0.41
1:E:278:ASN:HB2	1:E:588:GLN:HE21	1.86	0.41
1:E:521:LEU:HD22	1:E:525:HIS:CE1	2.56	0.41
1:E:702:PHE:CD2	1:E:826:ILE:HD12	2.55	0.41
1:F:56:THR:O	1:F:60:THR:HG22	2.21	0.41
1:F:181:GLN:HE21	1:F:181:GLN:HB3	1.67	0.41
1:F:214:ILE:HG13	1:F:237:LYS:HB2	2.03	0.41
1:F:451:ALA:HB1	1:F:882:VAL:HG12	2.02	0.41
1:F:896:ILE:N	1:F:897:PRO:CD	2.83	0.41
1:A:355:MET:HE1	1:A:406:VAL:HG12	2.02	0.41
1:B:154:LEU:CD1	1:B:286:ALA:HA	2.51	0.41
1:B:184:MET:HB2	1:B:770:VAL:HG22	2.01	0.41
1:B:843:VAL:HA	1:B:846:ILE:HG12	2.03	0.41
1:C:367:ILE:HG22	1:C:492:LEU:HB3	2.02	0.41
1:C:971:ARG:CB	1:C:972:PRO:HD3	2.50	0.41
1:D:76:ARG:HD3	1:D:95:GLU:OE1	2.21	0.41
1:D:283:GLY:HA2	1:D:595:ARG:NE	2.35	0.41
1:D:333:VAL:O	1:D:337:ILE:HG12	2.20	0.41
1:D:445:ILE:HG13	1:D:446:ALA:N	2.36	0.41
1:D:479:ALA:O	1:D:483:ILE:HG22	2.20	0.41
1:D:694:VAL:O	1:D:697:GLN:HB3	2.21	0.41
1:D:887:LEU:CD2	1:D:942:ILE:HD12	2.50	0.41
1:E:150:THR:O	1:E:151:LYS:C	2.63	0.41
1:E:239:ARG:HD2	1:E:762:ILE:HG23	2.03	0.41
1:E:412:VAL:HG13	1:E:435:MET:HE1	2.01	0.41
1:E:616:ASN:HB2	1:E:619:GLY:O	2.20	0.41
1:F:357:LEU:O	1:F:357:LEU:HD22	2.20	0.41
1:F:367:ILE:HG22	1:F:492:LEU:HB3	2.01	0.41
1:F:445:ILE:N	1:F:942:ILE:HD11	2.35	0.41
1:F:683:PHE:CG	1:F:818:TYR:CE1	3.09	0.41
1:F:812:SER:HA	1:F:813:PRO:HD3	1.92	0.41
1:A:38:ILE:HD13	1:A:38:ILE:H	1.85	0.41
1:A:133:VAL:O	1:A:134:LYS:C	2.63	0.41
1:A:336:SER:O	1:A:340:VAL:HG23	2.21	0.41
1:B:746:ASN:O	1:B:749:VAL:HG12	2.21	0.41
1:B:909:ILE:HG13	1:B:910:GLY:N	2.36	0.41
1:B:910:GLY:HA3	1:B:1011:THR:CG2	2.50	0.41
1:C:455:PRO:O	1:C:456:MET:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:406:VAL:O	1:D:410:ILE:HG12	2.19	0.41
1:D:633:PRO:C	1:D:635:GLU:H	2.28	0.41
1:D:681:ASP:OD1	1:D:859:THR:HG22	2.20	0.41
1:D:896:ILE:HD12	1:D:945:VAL:CG2	2.50	0.41
1:E:534:ILE:CG2	1:E:1022:LEU:HD23	2.42	0.41
1:F:330:THR:N	1:F:331:PRO:CD	2.84	0.41
1:F:454:LEU:HD23	1:F:454:LEU:HA	1.60	0.41
1:F:742:LEU:HD23	1:F:745:ILE:HD11	2.02	0.41
1:A:30:LEU:HA	1:A:31:PRO:HD2	1.86	0.41
1:A:357:LEU:O	1:A:357:LEU:HD22	2.21	0.41
1:A:542:LEU:HD12	1:A:1022:LEU:HD13	2.02	0.41
1:A:896:ILE:HD12	1:A:945:VAL:CG2	2.50	0.41
1:A:985:VAL:O	1:A:989:ILE:HG12	2.20	0.41
1:A:1015:LEU:O	1:A:1019:TRP:CD1	2.73	0.41
1:B:907:GLY:HA2	1:B:1011:THR:HG23	2.02	0.41
1:C:668:PRO:HA	1:C:669:PRO:HD3	1.75	0.41
1:C:766:ARG:O	1:C:768:LYS:HG3	2.20	0.41
1:C:1013:THR:O	1:C:1017:ILE:HG23	2.20	0.41
1:D:38:ILE:HB	1:D:462:SER:OG	2.20	0.41
1:D:88:MET:SD	1:D:90:ILE:HG22	2.61	0.41
1:D:142:VAL:HG11	1:D:321:MET:HE2	2.03	0.41
1:D:275:TYR:CG	1:F:223:PRO:HG3	2.55	0.41
1:E:454:LEU:HD23	1:E:454:LEU:HA	1.83	0.41
1:E:784:ASP:HA	1:E:787:LYS:HE3	2.01	0.41
1:E:843:VAL:HA	1:E:846:ILE:HG12	2.02	0.41
1:E:968:MET:HE2	1:E:968:MET:HB3	1.88	0.41
1:F:363:ARG:O	1:F:367:ILE:HD13	2.21	0.41
1:F:534:ILE:HD11	1:F:1022:LEU:HB2	2.02	0.41
1:F:652:GLN:OE1	1:F:652:GLN:HA	2.19	0.41
1:F:789:TYR:CE2	1:F:799:PRO:HG3	2.56	0.41
1:A:100:PRO:HB3	1:A:295:THR:CG2	2.51	0.41
1:A:479:ALA:O	1:A:483:ILE:HG22	2.21	0.41
1:A:610:PHE:HB3	1:A:628:PHE:HB2	2.03	0.41
1:B:143:VAL:HG22	1:B:322:LYS:O	2.21	0.41
1:B:463:THR:O	1:B:466:ILE:HG12	2.20	0.41
1:B:527:TYR:CZ	1:B:966:CYS:HB3	2.56	0.41
1:C:150:THR:OG1	1:C:151:LYS:N	2.54	0.41
1:C:155:SER:C	1:C:157:TYR:H	2.29	0.41
1:C:896:ILE:N	1:C:897:PRO:CD	2.84	0.41
1:D:655:PHE:CG	1:D:663:VAL:HG11	2.55	0.41
1:D:973:ILE:HG12	1:D:973:ILE:H	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:278:ASN:O	1:E:612:VAL:HA	2.21	0.41
1:E:681:ASP:OD1	1:E:681:ASP:C	2.63	0.41
1:F:17:LEU:HD23	1:F:20:MET:CE	2.50	0.41
1:F:522:SER:O	1:F:525:HIS:HB2	2.21	0.41
1:F:929:GLY:HA2	1:F:932:THR:CG2	2.50	0.41
1:A:6:ILE:HD12	1:A:6:ILE:N	2.36	0.41
1:A:332:VAL:HG23	1:A:634:TRP:CZ2	2.56	0.41
1:A:445:ILE:HG13	1:A:446:ALA:N	2.34	0.41
1:A:457:ALA:O	1:A:468:ARG:HD3	2.20	0.41
1:A:650:ARG:HH11	1:A:650:ARG:HB2	1.86	0.41
1:A:699:ARG:NH2	1:A:824:MET:CG	2.77	0.41
1:A:745:ILE:HA	1:A:748:THR:HG22	2.03	0.41
1:A:780:MET:HB3	1:C:228:GLN:HE21	1.85	0.41
1:B:412:VAL:HG13	1:B:435:MET:HE1	2.01	0.41
1:B:515:TRP:O	1:B:519:MET:HG2	2.20	0.41
1:B:527:TYR:HE2	1:B:966:CYS:HB3	1.83	0.41
1:C:184:MET:H	1:C:761:PHE:HE1	1.67	0.41
1:C:507:GLU:C	1:C:509:LYS:H	2.28	0.41
1:C:520:PHE:O	1:C:524:THR:HG23	2.21	0.41
1:C:538:ARG:O	1:C:539:ALA:C	2.64	0.41
1:C:553:ILE:HG12	1:C:553:ILE:H	1.73	0.41
1:C:652:GLN:OE1	1:C:652:GLN:HA	2.20	0.41
1:C:789:TYR:CE2	1:C:799:PRO:HG3	2.56	0.41
1:C:881:LEU:O	1:C:885:LEU:HG	2.21	0.41
1:C:930:LEU:O	1:C:933:THR:HB	2.20	0.41
1:D:355:MET:HE1	1:D:406:VAL:HG12	2.03	0.41
1:D:631:LEU:CD2	1:D:644:VAL:HG23	2.51	0.41
1:E:164:ASP:HB3	1:E:165:PRO:HD3	2.03	0.41
1:E:641:GLU:O	1:E:650:ARG:NH2	2.54	0.41
1:F:5:PHE:CD1	1:F:487:ILE:HG23	2.56	0.41
1:F:184:MET:CB	1:F:770:VAL:HG12	2.46	0.41
1:F:187:TRP:O	1:F:266:ALA:HB1	2.21	0.41
1:F:489:THR:HA	1:F:492:LEU:HD12	2.03	0.41
1:F:545:TYR:CE1	1:F:1023:PHE:HZ	2.39	0.41
1:F:843:VAL:O	1:F:847:VAL:HG23	2.21	0.41
1:F:881:LEU:O	1:F:885:LEU:HG	2.20	0.41
1:A:137:LEU:HD11	1:A:330:THR:HG23	2.02	0.41
1:A:233:THR:CG2	1:B:725:GLN:HG2	2.47	0.41
1:A:295:THR:O	1:A:295:THR:HG23	2.20	0.41
1:A:437:GLN:HE21	1:A:437:GLN:HB3	1.65	0.41
1:A:616:ASN:HD22	1:A:616:ASN:HA	1.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:712:LEU:CD2	1:A:838:ASP:HB3	2.51	0.41
1:A:766:ARG:HE	1:B:67:GLN:NE2	2.19	0.41
1:A:879:SER:O	1:A:883:VAL:HG23	2.20	0.41
1:A:902:LEU:HD23	1:A:1023:PHE:CD1	2.56	0.41
1:A:958:ILE:HD13	1:A:958:ILE:N	2.36	0.41
2:A:2026:LMT:C8	2:A:2026:LMT:C12	2.98	0.41
1:B:99:ASP:OD2	1:B:101:ASP:HB2	2.21	0.41
1:B:455:PRO:HG2	1:B:879:SER:HB3	2.02	0.41
1:B:683:PHE:O	1:B:856:TYR:HA	2.21	0.41
1:B:685:GLN:HB3	1:B:823:ALA:HB2	2.03	0.41
1:B:757:TYR:CE1	1:B:769:ARG:CG	3.03	0.41
1:C:489:THR:HA	1:C:492:LEU:HD12	2.03	0.41
1:C:652:GLN:HE22	1:C:664:PHE:CB	2.34	0.41
1:C:683:PHE:CG	1:C:818:TYR:CE1	3.08	0.41
1:C:726:TYR:HB3	1:C:727:LYS:H	1.70	0.41
1:C:901:MET:HE3	1:C:901:MET:HB3	1.97	0.41
1:C:915:THR:HG23	1:C:920:LEU:HB2	2.01	0.41
1:C:918:ARG:HG2	1:C:918:ARG:O	2.21	0.41
1:D:306:ILE:HG13	1:D:307:ARG:N	2.36	0.41
1:D:457:ALA:O	1:D:468:ARG:HD3	2.21	0.41
1:D:587:THR:HG21	1:D:622:GLN:O	2.21	0.41
1:D:591:VAL:HG11	1:D:611:THR:CG2	2.51	0.41
1:D:902:LEU:HD23	1:D:1023:PHE:CD1	2.56	0.41
1:D:930:LEU:HD23	1:D:930:LEU:HA	1.84	0.41
1:D:941:ALA:O	1:D:942:ILE:C	2.64	0.41
1:E:143:VAL:HG12	1:E:286:ALA:HB2	2.03	0.41
1:E:293:LEU:HD13	1:E:294:ALA:O	2.20	0.41
1:E:374:VAL:CG1	1:E:375:VAL:N	2.84	0.41
1:E:527:TYR:CZ	1:E:966:CYS:HB3	2.55	0.41
1:E:541:TYR:O	1:E:1019:TRP:CZ3	2.73	0.41
1:E:563:PHE:O	1:E:923:ASP:HA	2.21	0.41
1:E:910:GLY:N	1:E:1011:THR:HG21	2.35	0.41
1:F:150:THR:OG1	1:F:151:LYS:N	2.54	0.41
1:F:324:VAL:C	1:F:326:PRO:HD3	2.46	0.41
1:F:362:PHE:HA	1:F:365:THR:HG22	2.03	0.41
1:F:370:ILE:O	1:F:373:PRO:HD2	2.20	0.41
1:F:455:PRO:O	1:F:456:MET:C	2.64	0.41
1:F:690:VAL:HG12	1:F:694:VAL:HG21	2.03	0.41
1:F:789:TYR:HE2	1:F:799:PRO:HG3	1.84	0.41
1:A:38:ILE:HB	1:A:462:SER:OG	2.21	0.41
1:A:76:ARG:HB3	1:A:77:TYR:H	1.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:83:ASN:C	1:A:85:ASP:H	2.28	0.41
1:A:578:THR:HG22	1:A:579:PRO:CD	2.50	0.41
1:A:631:LEU:CD2	1:A:644:VAL:HG23	2.51	0.41
1:A:728:LEU:HD23	1:A:728:LEU:HA	1.83	0.41
1:A:1003:THR:CG2	1:A:1004:GLY:N	2.84	0.41
1:B:483:ILE:O	1:B:487:ILE:HD13	2.21	0.41
1:B:910:GLY:HA3	1:B:1007:GLY:O	2.21	0.41
1:C:52:ALA:HB1	1:C:56:THR:CG2	2.51	0.41
1:C:111:LEU:O	1:C:113:LEU:N	2.53	0.41
1:C:445:ILE:N	1:C:942:ILE:HD11	2.36	0.41
1:C:541:TYR:C	1:C:543:LEU:N	2.77	0.41
1:C:548:ILE:HD11	1:C:906:LEU:CD2	2.47	0.41
1:C:579:PRO:HG3	1:C:660:ASP:OD2	2.21	0.41
1:D:376:LEU:HA	1:D:379:THR:HG22	2.03	0.41
1:D:527:TYR:O	1:D:531:VAL:N	2.45	0.41
1:D:579:PRO:HD3	1:D:661:ALA:HA	2.03	0.41
1:D:812:SER:HA	1:D:813:PRO:HD3	1.80	0.41
1:D:837:GLY:O	1:D:838:ASP:C	2.63	0.41
1:D:1001:ILE:CG2	1:D:1002:GLY:N	2.82	0.41
1:E:47:VAL:HG22	1:E:127:ILE:HG23	2.03	0.41
1:E:1001:ILE:HG13	1:E:1002:GLY:H	1.85	0.41
1:F:52:ALA:HB1	1:F:56:THR:CG2	2.51	0.41
1:A:43:ILE:HG12	1:A:104:GLN:HA	2.03	0.40
1:A:127:ILE:O	1:B:113:LEU:HG	2.21	0.40
1:B:616:ASN:HB2	1:B:619:GLY:O	2.21	0.40
1:B:936:LEU:HD23	1:B:936:LEU:HA	1.93	0.40
1:C:488:LEU:HD22	1:C:492:LEU:HG	2.03	0.40
1:C:690:VAL:HG12	1:C:694:VAL:HG21	2.02	0.40
1:C:742:LEU:HD23	1:C:745:ILE:HD11	2.02	0.40
1:C:836:SER:O	1:C:840:MET:HG3	2.21	0.40
1:D:83:ASN:C	1:D:85:ASP:H	2.29	0.40
1:D:438:ILE:O	1:D:438:ILE:HD12	2.21	0.40
1:D:455:PRO:HG2	1:D:879:SER:HA	2.03	0.40
1:E:116:PRO:HA	1:E:123:GLN:NE2	2.35	0.40
1:E:720:MET:HE3	1:E:720:MET:HB2	1.87	0.40
1:E:775:ARG:O	1:E:779:ARG:HG2	2.21	0.40
1:E:798:VAL:HA	1:E:799:PRO:HD3	1.82	0.40
1:E:860:GLY:C	1:E:862:SER:H	2.30	0.40
1:E:958:ILE:CG1	1:E:959:VAL:N	2.83	0.40
1:F:667:ALA:O	1:F:678:THR:HG22	2.20	0.40
1:F:1001:ILE:HG13	1:F:1002:GLY:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:310:ILE:HD13	1:A:323:VAL:HG11	2.03	0.40
1:A:375:VAL:O	1:A:379:THR:HG22	2.22	0.40
1:A:598:LEU:HD23	1:A:598:LEU:HA	1.83	0.40
1:A:792:ASN:HD22	1:A:793:ASP:H	1.68	0.40
1:B:143:VAL:HG12	1:B:286:ALA:HB2	2.02	0.40
1:B:574:ALA:HB1	1:B:594:MET:HE1	2.02	0.40
2:B:2033:LMT:O5B	2:B:2033:LMT:H5'	2.21	0.40
1:D:293:LEU:HD21	1:D:297:ALA:HB3	2.04	0.40
1:D:351:VAL:O	1:D:355:MET:HG2	2.22	0.40
1:D:354:VAL:HG11	1:D:979:ALA:CA	2.51	0.40
1:D:609:VAL:HG13	1:D:629:ILE:HD13	2.02	0.40
1:D:753:TRP:C	1:F:217:GLY:HA3	2.46	0.40
1:D:787:LYS:HB2	1:D:787:LYS:HE2	1.84	0.40
1:E:42:ALA:C	1:E:43:ILE:HD12	2.47	0.40
1:E:492:LEU:O	1:E:496:MET:HG3	2.21	0.40
1:E:575:GLN:NE2	1:E:617:PHE:HB2	2.36	0.40
1:F:94:PHE:HB3	1:F:98:THR:HG21	2.02	0.40
1:F:138:MET:CB	1:F:328:ASP:HA	2.43	0.40
1:A:62:VAL:HG12	1:A:63:GLN:N	2.36	0.40
1:A:188:LEU:HG	1:A:772:LEU:CD2	2.51	0.40
1:A:609:VAL:HG13	1:A:629:ILE:HD13	2.03	0.40
1:B:49:TYR:C	1:B:49:TYR:CD1	3.00	0.40
1:B:199:THR:HG22	1:B:201:GLY:N	2.37	0.40
1:B:256:ASP:OD1	1:B:256:ASP:N	2.54	0.40
1:B:641:GLU:O	1:B:650:ARG:NH2	2.54	0.40
1:C:2:SER:O	1:C:6:ILE:HG13	2.21	0.40
1:C:88:MET:SD	1:C:88:MET:C	3.04	0.40
1:C:182:TYR:HD2	1:C:271:GLY:O	2.04	0.40
1:C:312:ASN:C	1:C:315:PRO:HD2	2.46	0.40
1:C:363:ARG:O	1:C:367:ILE:HD13	2.22	0.40
1:D:190:PRO:C	1:D:192:LYS:N	2.79	0.40
1:D:273:GLN:NE2	1:D:769:ARG:NH1	2.67	0.40
1:D:295:THR:O	1:D:295:THR:HG23	2.21	0.40
1:D:563:PHE:O	1:D:563:PHE:CD2	2.74	0.40
1:D:600:GLU:OE1	1:D:600:GLU:HA	2.21	0.40
1:D:898:PHE:C	1:D:900:VAL:H	2.30	0.40
1:E:43:ILE:CG2	1:E:107:VAL:HG11	2.23	0.40
1:E:85:ASP:OD1	1:E:85:ASP:N	2.50	0.40
1:E:154:LEU:CD1	1:E:286:ALA:HA	2.51	0.40
1:E:428:ARG:HD2	1:E:428:ARG:N	2.27	0.40
1:E:463:THR:O	1:E:466:ILE:HG12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:GLN:O	1:A:110:LYS:HG3	2.21	0.40
1:A:137:LEU:HD22	1:A:293:LEU:HD12	2.04	0.40
1:B:18:VAL:C	1:B:20:MET:N	2.78	0.40
1:B:352:PHE:HD1	1:B:365:THR:CG2	2.34	0.40
1:B:375:VAL:HG22	1:B:484:VAL:HG21	2.02	0.40
1:B:418:ARG:HG2	1:B:418:ARG:NH1	2.37	0.40
1:B:643:SER:O	1:B:644:VAL:C	2.64	0.40
1:B:851:PRO:O	1:B:852:LYS:C	2.63	0.40
1:C:185:ARG:HD3	1:C:771:TYR:HB2	2.03	0.40
1:C:479:ALA:O	1:C:483:ILE:HG23	2.22	0.40
1:C:544:ILE:O	1:C:547:VAL:HB	2.20	0.40
1:C:695:LEU:HD12	1:C:695:LEU:C	2.46	0.40
1:C:907:GLY:HA2	1:C:1011:THR:CG2	2.50	0.40
1:D:49:TYR:O	1:D:86:GLY:HA3	2.22	0.40
1:D:63:GLN:O	1:D:67:GLN:HG3	2.21	0.40
1:D:78:ILE:HG13	1:D:90:ILE:HD11	2.02	0.40
1:D:581:GLY:N	1:D:723:GLU:OE1	2.54	0.40
1:D:701:LYS:HE2	1:D:701:LYS:HB3	1.91	0.40
1:D:763:ASP:CB	1:D:768:LYS:HD2	2.52	0.40
1:E:62:VAL:O	1:E:63:GLN:C	2.64	0.40
1:E:1001:ILE:O	1:E:1005:VAL:HG23	2.20	0.40
1:A:223:PRO:HD3	1:B:275:TYR:CG	2.56	0.40
1:A:351:VAL:O	1:A:355:MET:HG2	2.22	0.40
1:A:353:LEU:HD13	1:A:353:LEU:HA	1.86	0.40
1:A:396:PHE:HA	1:A:399:VAL:HG12	2.03	0.40
1:A:455:PRO:HG2	1:A:879:SER:HA	2.02	0.40
1:A:639:GLY:C	1:A:641:GLU:H	2.29	0.40
1:A:898:PHE:C	1:A:900:VAL:H	2.28	0.40
1:B:44:ALA:CB	1:B:132:ALA:HB2	2.52	0.40
1:B:162:ILE:O	1:B:166:LEU:HB2	2.22	0.40
1:B:702:PHE:CD2	1:B:826:ILE:HD12	2.56	0.40
1:B:890:LEU:CD1	1:B:891:TYR:CE2	3.05	0.40
1:B:901:MET:C	1:B:903:VAL:H	2.29	0.40
1:C:362:PHE:HA	1:C:365:THR:HG22	2.04	0.40
1:C:506:GLY:O	1:C:507:GLU:C	2.64	0.40
1:C:594:MET:HE3	1:C:594:MET:HB3	1.85	0.40
1:C:840:MET:O	1:C:844:GLU:HG3	2.22	0.40
1:C:939:LYS:HB3	1:C:939:LYS:HE3	1.90	0.40
1:D:415:ASN:HA	1:D:418:ARG:HD2	2.02	0.40
1:D:528:GLU:OE2	1:D:967:ARG:NH2	2.55	0.40
1:D:538:ARG:C	1:D:540:PRO:CD	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:579:PRO:HA	1:D:580:PRO:HD3	1.94	0.40
1:D:713:GLN:O	1:D:714:ARG:HB2	2.22	0.40
1:D:754:GLY:O	1:D:755:SER:O	2.39	0.40
1:D:875:LEU:C	1:D:875:LEU:CD1	2.94	0.40
1:D:985:VAL:N	1:D:986:PRO:CD	2.85	0.40
1:E:99:ASP:OD2	1:E:101:ASP:HB2	2.21	0.40
1:E:158:ILE:O	1:E:163:GLN:HB2	2.22	0.40
1:F:507:GLU:C	1:F:509:LYS:H	2.29	0.40
1:F:519:MET:HE3	1:F:519:MET:HB3	1.98	0.40
1:F:668:PRO:HA	1:F:669:PRO:HD3	1.75	0.40
1:F:695:LEU:HD12	1:F:695:LEU:C	2.46	0.40
1:F:753:TRP:HZ2	1:F:785:LEU:HA	1.86	0.40
1:F:757:TYR:HE1	1:F:769:ARG:CG	2.35	0.40
1:F:939:LYS:NZ	1:F:976:THR:HG21	2.33	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	999/1052 (95%)	830 (83%)	123 (12%)	46 (5%)	2	11
1	B	1028/1052 (98%)	863 (84%)	147 (14%)	18 (2%)	6	31
1	C	1028/1052 (98%)	859 (84%)	143 (14%)	26 (2%)	4	23
1	D	990/1052 (94%)	820 (83%)	132 (13%)	38 (4%)	2	15
1	E	1006/1052 (96%)	847 (84%)	141 (14%)	18 (2%)	6	31
1	F	1028/1052 (98%)	866 (84%)	136 (13%)	26 (2%)	4	23
All	All	6079/6312 (96%)	5085 (84%)	822 (14%)	172 (3%)	4	21

All (172) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	62	VAL
1	A	134	LYS
1	A	203	VAL
1	A	204	SER
1	A	498	LYS
1	A	524	THR
1	A	532	ALA
1	A	533	SER
1	A	538	ARG
1	A	539	ALA
1	A	671	VAL
1	A	755	SER
1	A	866	ARG
1	A	872	ALA
1	A	917	MET
1	C	96	GLN
1	C	690	VAL
1	C	779	ARG
1	C	801	ASN
1	D	134	LYS
1	D	203	VAL
1	D	204	SER
1	D	498	LYS
1	D	524	THR
1	D	532	ALA
1	D	533	SER
1	D	538	ARG
1	D	539	ALA
1	D	866	ARG
1	D	872	ALA
1	D	917	MET
1	E	691	GLY
1	F	96	GLN
1	F	690	VAL
1	F	779	ARG
1	F	801	ASN
1	A	158	ILE
1	A	221	GLY
1	A	471	SER
1	A	523	THR
1	A	689	GLY
1	A	795	GLY
1	A	835	SER

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Mol	Chain	Res	Type
1	B	439	GLN
1	B	563	PHE
1	B	657	SER
1	B	658	PHE
1	B	691	GLY
1	C	112	GLN
1	C	720	MET
1	C	721	SER
1	D	62	VAL
1	D	221	GLY
1	D	471	SER
1	D	523	THR
1	D	689	GLY
1	D	755	SER
1	D	835	SER
1	E	28	LEU
1	E	439	GLN
1	E	563	PHE
1	E	657	SER
1	E	658	PHE
1	F	112	GLN
1	F	217	GLY
1	F	720	MET
1	F	721	SER
1	A	542	LEU
1	A	595	ARG
1	A	596	GLU
1	A	710	PRO
1	A	870	SER
1	B	28	LEU
1	B	137	LEU
1	B	570	GLY
1	C	217	GLY
1	C	424	GLY
1	C	717	PRO
1	C	875	LEU
1	D	148	SER
1	D	158	ILE
1	D	319	GLN
1	D	542	LEU
1	D	595	ARG
1	D	596	GLU

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Mol	Chain	Res	Type
1	D	792	ASN
1	D	870	SER
1	E	137	LEU
1	E	570	GLY
1	F	717	PRO
1	F	875	LEU
1	F	877	ALA
1	A	148	SER
1	A	564	LEU
1	A	639	GLY
1	A	690	VAL
1	A	787	LYS
1	A	819	ASN
1	A	839	ALA
1	A	865	GLU
1	B	306	ILE
1	B	677	ALA
1	B	750	SER
1	C	147	GLY
1	C	256	ASP
1	C	361	ASN
1	C	521	LEU
1	C	877	ALA
1	C	993	ALA
1	D	564	LEU
1	D	639	GLY
1	D	838	ASP
1	D	839	ALA
1	D	865	GLU
1	E	29	SER
1	E	306	ILE
1	E	750	SER
1	F	147	GLY
1	F	256	ASP
1	F	361	ASN
1	F	424	GLY
1	F	521	LEU
1	F	993	ALA
1	A	276	SER
1	A	319	GLN
1	A	838	ASP
1	A	867	LEU

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Mol	Chain	Res	Type
1	B	29	SER
1	B	57	VAL
1	B	195	SER
1	B	339	GLU
1	B	633	PRO
1	C	433	LYS
1	C	658	PHE
1	C	659	LYS
1	D	159	VAL
1	D	690	VAL
1	D	867	LEU
1	E	195	SER
1	E	633	PRO
1	F	433	LYS
1	F	658	PHE
1	F	659	LYS
1	B	310	ILE
1	C	804	ALA
1	E	57	VAL
1	E	310	ILE
1	E	954	GLN
1	F	804	ALA
1	A	438	ILE
1	A	530	GLY
1	C	638	PRO
1	C	719	GLY
1	D	438	ILE
1	F	719	GLY
1	D	715	VAL
1	F	638	PRO
1	F	846	ILE
1	A	919	GLY
1	C	310	ILE
1	C	715	VAL
1	C	846	ILE
1	F	310	ILE
1	A	236	GLY
1	A	715	VAL
1	A	989	ILE
1	B	539	ALA
1	D	236	GLY
1	E	539	ALA

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Mol	Chain	Res	Type
1	E	580	PRO
1	A	873	PRO
1	F	715	VAL

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	823/860 (96%)	685 (83%)	138 (17%)	2	11
1	B	841/860 (98%)	720 (86%)	121 (14%)	3	15
1	C	841/860 (98%)	737 (88%)	104 (12%)	4	20
1	D	816/860 (95%)	682 (84%)	134 (16%)	2	12
1	E	829/860 (96%)	715 (86%)	114 (14%)	3	17
1	F	841/860 (98%)	740 (88%)	101 (12%)	5	22
All	All	4991/5160 (97%)	4279 (86%)	712 (14%)	3	16

All (712) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	10	ILE
1	A	15	ILE
1	A	21	LEU
1	A	25	LEU
1	A	34	GLN
1	A	38	ILE
1	A	43	ILE
1	A	56	THR
1	A	60	THR
1	A	65	ILE
1	A	69	MET
1	A	75	LEU
1	A	76	ARG
1	A	79	SER
1	A	90	ILE

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Mol	Chain	Res	Type
1	A	92	VAL
1	A	96	GLN
1	A	107	VAL
1	A	121	GLU
1	A	140	VAL
1	A	158	ILE
1	A	166	LEU
1	A	170	LYS
1	A	172	VAL
1	A	181	GLN
1	A	184	MET
1	A	193	LEU
1	A	195	SER
1	A	196	TYR
1	A	197	GLN
1	A	207	ILE
1	A	226	LYS
1	A	233	THR
1	A	234	ILE
1	A	235	ILE
1	A	240	LEU
1	A	241	GLN
1	A	244	GLU
1	A	249	ILE
1	A	250	LEU
1	A	254	ASN
1	A	259	GLN
1	A	265	VAL
1	A	289	ILE
1	A	306	ILE
1	A	310	ILE
1	A	340	VAL
1	A	344	LEU
1	A	348	ILE
1	A	351	VAL
1	A	353	LEU
1	A	363	ARG
1	A	367	ILE
1	A	370	ILE
1	A	391	ASN
1	A	399	VAL
1	A	405	LEU

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Mol	Chain	Res	Type
1	A	418	ARG
1	A	425	LEU
1	A	437	GLN
1	A	472	ILE
1	A	475	VAL
1	A	483	ILE
1	A	488	LEU
1	A	496	MET
1	A	497	LEU
1	A	521	LEU
1	A	523	THR
1	A	524	THR
1	A	528	GLU
1	A	534	ILE
1	A	535	LEU
1	A	538	ARG
1	A	544	ILE
1	A	547	VAL
1	A	555	MET
1	A	559	ILE
1	A	571	VAL
1	A	596	GLU
1	A	611	THR
1	A	616	ASN
1	A	624	SER
1	A	634	TRP
1	A	643	SER
1	A	644	VAL
1	A	647	LEU
1	A	659	LYS
1	A	666	PHE
1	A	671	VAL
1	A	680	PHE
1	A	682	LEU
1	A	690	VAL
1	A	708	GLN
1	A	709	ASN
1	A	727	LYS
1	A	742	LEU
1	A	745	ILE
1	A	759	ASN
1	A	767	VAL

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Mol	Chain	Res	Type
1	A	769	ARG
1	A	770	VAL
1	A	772	LEU
1	A	777	ASP
1	A	791	ARG
1	A	792	ASN
1	A	794	LYS
1	A	800	PHE
1	A	805	THR
1	A	810	TYR
1	A	815	LEU
1	A	821	VAL
1	A	826	ILE
1	A	854	VAL
1	A	859	THR
1	A	861	LEU
1	A	871	GLN
1	A	875	LEU
1	A	885	LEU
1	A	890	LEU
1	A	896	ILE
1	A	901	MET
1	A	906	LEU
1	A	928	VAL
1	A	930	LEU
1	A	932	THR
1	A	933	THR
1	A	934	ILE
1	A	944	ILE
1	A	952	HIS
1	A	958	ILE
1	A	964	GLU
1	A	969	ARG
1	A	970	LEU
1	A	973	ILE
1	A	976	THR
1	A	978	LEU
1	A	981	ILE
1	A	1025	VAL
1	B	14	VAL
1	B	17	LEU
1	B	33	ASN

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Mol	Chain	Res	Type
1	B	34	GLN
1	B	38	ILE
1	B	47	VAL
1	B	55	GLU
1	B	58	GLN
1	B	65	ILE
1	B	70	ASN
1	B	82	SER
1	B	83	ASN
1	B	88	MET
1	B	90	ILE
1	B	102	ILE
1	B	107	VAL
1	B	108	GLN
1	B	110	LYS
1	B	113	LEU
1	B	117	LEU
1	B	118	LEU
1	B	121	GLU
1	B	127	ILE
1	B	129	VAL
1	B	130	THR
1	B	135	ASN
1	B	152	GLU
1	B	166	LEU
1	B	178	PHE
1	B	192	LYS
1	B	199	THR
1	B	203	VAL
1	B	205	SER
1	B	207	ILE
1	B	242	THR
1	B	249	ILE
1	B	256	ASP
1	B	262	LEU
1	B	289	ILE
1	B	293	LEU
1	B	295	THR
1	B	324	VAL
1	B	329	THR
1	B	330	THR
1	B	348	ILE

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Mol	Chain	Res	Type
1	B	352	PHE
1	B	357	LEU
1	B	365	THR
1	B	379	THR
1	B	392	THR
1	B	394	THR
1	B	402	ILE
1	B	405	LEU
1	B	407	ASP
1	B	410	ILE
1	B	412	VAL
1	B	414	GLU
1	B	428	ARG
1	B	445	ILE
1	B	462	SER
1	B	463	THR
1	B	474	ILE
1	B	483	ILE
1	B	487	ILE
1	B	488	LEU
1	B	495	THR
1	B	515	TRP
1	B	521	LEU
1	B	522	SER
1	B	533	SER
1	B	544	ILE
1	B	548	ILE
1	B	552	MET
1	B	558	ARG
1	B	561	THR
1	B	566	ASP
1	B	569	GLN
1	B	577	GLN
1	B	578	THR
1	B	589	VAL
1	B	611	THR
1	B	612	VAL
1	B	626	MET
1	B	637	ARG
1	B	641	GLU
1	B	646	GLU
1	B	647	LEU

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Mol	Chain	Res	Type
1	B	673	GLU
1	B	678	THR
1	B	681	ASP
1	B	684	LEU
1	B	687	GLN
1	B	695	LEU
1	B	699	ARG
1	B	749	VAL
1	B	762	ILE
1	B	772	LEU
1	B	792	ASN
1	B	812	SER
1	B	817	ARG
1	B	821	VAL
1	B	880	LEU
1	B	881	LEU
1	B	883	VAL
1	B	890	LEU
1	B	896	ILE
1	B	903	VAL
1	B	915	THR
1	B	922	ASN
1	B	933	THR
1	B	942	ILE
1	B	944	ILE
1	B	946	GLU
1	B	958	ILE
1	B	959	VAL
1	B	963	ILE
1	B	973	ILE
1	B	975	MET
1	B	984	VAL
1	B	1011	THR
1	B	1030	LEU
1	C	1	MET
1	C	15	ILE
1	C	19	ILE
1	C	21	LEU
1	C	25	LEU
1	C	26	SER
1	C	27	ILE
1	C	38	ILE

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Mol	Chain	Res	Type
1	C	47	VAL
1	C	55	GLU
1	C	56	THR
1	C	57	VAL
1	C	78	ILE
1	C	89	THR
1	C	98	THR
1	C	127	ILE
1	C	137	LEU
1	C	138	MET
1	C	143	VAL
1	C	146	ASP
1	C	148	SER
1	C	174	ASP
1	C	230	LEU
1	C	234	ILE
1	C	235	ILE
1	C	238	THR
1	C	240	LEU
1	C	249	ILE
1	C	262	LEU
1	C	264	ASP
1	C	289	ILE
1	C	291	ILE
1	C	306	ILE
1	C	309	THR
1	C	329	THR
1	C	330	THR
1	C	337	ILE
1	C	340	VAL
1	C	348	ILE
1	C	357	LEU
1	C	366	LEU
1	C	367	ILE
1	C	370	ILE
1	C	394	THR
1	C	406	VAL
1	C	414	GLU
1	C	415	ASN
1	C	425	LEU
1	C	433	LYS
1	C	434	SER

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Mol	Chain	Res	Type
1	C	445	ILE
1	C	447	MET
1	C	448	VAL
1	C	450	SER
1	C	456	MET
1	C	466	ILE
1	C	472	ILE
1	C	483	ILE
1	C	488	LEU
1	C	489	THR
1	C	534	ILE
1	C	544	ILE
1	C	548	ILE
1	C	553	ILE
1	C	561	THR
1	C	578	THR
1	C	611	THR
1	C	629	ILE
1	C	634	TRP
1	C	663	VAL
1	C	674	LEU
1	C	681	ASP
1	C	682	LEU
1	C	690	VAL
1	C	699	ARG
1	C	704	MET
1	C	712	LEU
1	C	720	MET
1	C	730	ILE
1	C	745	ILE
1	C	762	ILE
1	C	826	ILE
1	C	859	THR
1	C	866	ARG
1	C	867	LEU
1	C	875	LEU
1	C	878	LEU
1	C	879	SER
1	C	881	LEU
1	C	890	LEU
1	C	903	VAL
1	C	932	THR

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Mol	Chain	Res	Type
1	C	934	ILE
1	C	942	ILE
1	C	945	VAL
1	C	958	ILE
1	C	964	GLU
1	C	973	ILE
1	C	974	VAL
1	C	981	ILE
1	C	982	LEU
1	C	991	THR
1	C	1005	VAL
1	C	1015	LEU
1	D	10	ILE
1	D	15	ILE
1	D	21	LEU
1	D	25	LEU
1	D	34	GLN
1	D	38	ILE
1	D	43	ILE
1	D	56	THR
1	D	60	THR
1	D	65	ILE
1	D	69	MET
1	D	75	LEU
1	D	76	ARG
1	D	79	SER
1	D	90	ILE
1	D	92	VAL
1	D	93	THR
1	D	96	GLN
1	D	107	VAL
1	D	121	GLU
1	D	140	VAL
1	D	166	LEU
1	D	170	LYS
1	D	172	VAL
1	D	181	GLN
1	D	184	MET
1	D	193	LEU
1	D	195	SER
1	D	196	TYR
1	D	197	GLN

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Mol	Chain	Res	Type
1	D	207	ILE
1	D	226	LYS
1	D	233	THR
1	D	234	ILE
1	D	235	ILE
1	D	240	LEU
1	D	241	GLN
1	D	244	GLU
1	D	249	ILE
1	D	250	LEU
1	D	265	VAL
1	D	289	ILE
1	D	306	ILE
1	D	310	ILE
1	D	316	PHE
1	D	340	VAL
1	D	344	LEU
1	D	348	ILE
1	D	351	VAL
1	D	353	LEU
1	D	357	LEU
1	D	363	ARG
1	D	367	ILE
1	D	370	ILE
1	D	391	ASN
1	D	399	VAL
1	D	405	LEU
1	D	418	ARG
1	D	425	LEU
1	D	437	GLN
1	D	472	ILE
1	D	475	VAL
1	D	483	ILE
1	D	488	LEU
1	D	496	MET
1	D	497	LEU
1	D	521	LEU
1	D	523	THR
1	D	524	THR
1	D	528	GLU
1	D	534	ILE
1	D	535	LEU

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Mol	Chain	Res	Type
1	D	538	ARG
1	D	544	ILE
1	D	547	VAL
1	D	555	MET
1	D	559	ILE
1	D	571	VAL
1	D	596	GLU
1	D	611	THR
1	D	616	ASN
1	D	634	TRP
1	D	643	SER
1	D	644	VAL
1	D	647	LEU
1	D	659	LYS
1	D	666	PHE
1	D	680	PHE
1	D	682	LEU
1	D	690	VAL
1	D	727	LYS
1	D	742	LEU
1	D	745	ILE
1	D	759	ASN
1	D	767	VAL
1	D	769	ARG
1	D	770	VAL
1	D	772	LEU
1	D	777	ASP
1	D	792	ASN
1	D	794	LYS
1	D	800	PHE
1	D	805	THR
1	D	810	TYR
1	D	815	LEU
1	D	821	VAL
1	D	826	ILE
1	D	854	VAL
1	D	859	THR
1	D	861	LEU
1	D	871	GLN
1	D	875	LEU
1	D	885	LEU
1	D	890	LEU

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Mol	Chain	Res	Type
1	D	896	ILE
1	D	901	MET
1	D	906	LEU
1	D	920	LEU
1	D	928	VAL
1	D	930	LEU
1	D	932	THR
1	D	933	THR
1	D	934	ILE
1	D	944	ILE
1	D	952	HIS
1	D	958	ILE
1	D	964	GLU
1	D	969	ARG
1	D	970	LEU
1	D	973	ILE
1	D	976	THR
1	D	978	LEU
1	D	981	ILE
1	D	1025	VAL
1	E	14	VAL
1	E	17	LEU
1	E	33	ASN
1	E	34	GLN
1	E	38	ILE
1	E	47	VAL
1	E	55	GLU
1	E	58	GLN
1	E	65	ILE
1	E	82	SER
1	E	83	ASN
1	E	88	MET
1	E	90	ILE
1	E	102	ILE
1	E	107	VAL
1	E	108	GLN
1	E	110	LYS
1	E	113	LEU
1	E	117	LEU
1	E	118	LEU
1	E	121	GLU
1	E	127	ILE

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Mol	Chain	Res	Type
1	E	129	VAL
1	E	130	THR
1	E	133	VAL
1	E	135	ASN
1	E	152	GLU
1	E	166	LEU
1	E	178	PHE
1	E	192	LYS
1	E	199	THR
1	E	203	VAL
1	E	205	SER
1	E	207	ILE
1	E	242	THR
1	E	249	ILE
1	E	256	ASP
1	E	262	LEU
1	E	289	ILE
1	E	293	LEU
1	E	295	THR
1	E	324	VAL
1	E	329	THR
1	E	330	THR
1	E	348	ILE
1	E	352	PHE
1	E	357	LEU
1	E	365	THR
1	E	379	THR
1	E	392	THR
1	E	394	THR
1	E	402	ILE
1	E	405	LEU
1	E	407	ASP
1	E	410	ILE
1	E	412	VAL
1	E	414	GLU
1	E	428	ARG
1	E	445	ILE
1	E	462	SER
1	E	463	THR
1	E	474	ILE
1	E	483	ILE
1	E	487	ILE

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Mol	Chain	Res	Type
1	E	488	LEU
1	E	495	THR
1	E	515	TRP
1	E	521	LEU
1	E	522	SER
1	E	533	SER
1	E	544	ILE
1	E	548	ILE
1	E	552	MET
1	E	558	ARG
1	E	561	THR
1	E	566	ASP
1	E	569	GLN
1	E	577	GLN
1	E	578	THR
1	E	589	VAL
1	E	611	THR
1	E	612	VAL
1	E	626	MET
1	E	637	ARG
1	E	641	GLU
1	E	646	GLU
1	E	647	LEU
1	E	695	LEU
1	E	762	ILE
1	E	772	LEU
1	E	792	ASN
1	E	812	SER
1	E	817	ARG
1	E	821	VAL
1	E	880	LEU
1	E	881	LEU
1	E	883	VAL
1	E	890	LEU
1	E	896	ILE
1	E	903	VAL
1	E	915	THR
1	E	922	ASN
1	E	933	THR
1	E	942	ILE
1	E	944	ILE
1	E	946	GLU

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Mol	Chain	Res	Type
1	E	958	ILE
1	E	959	VAL
1	E	963	ILE
1	E	973	ILE
1	E	975	MET
1	E	984	VAL
1	E	1011	THR
1	E	1030	LEU
1	F	1	MET
1	F	15	ILE
1	F	19	ILE
1	F	21	LEU
1	F	25	LEU
1	F	26	SER
1	F	27	ILE
1	F	38	ILE
1	F	47	VAL
1	F	55	GLU
1	F	56	THR
1	F	57	VAL
1	F	78	ILE
1	F	89	THR
1	F	98	THR
1	F	127	ILE
1	F	137	LEU
1	F	138	MET
1	F	143	VAL
1	F	146	ASP
1	F	148	SER
1	F	174	ASP
1	F	230	LEU
1	F	235	ILE
1	F	238	THR
1	F	240	LEU
1	F	249	ILE
1	F	262	LEU
1	F	264	ASP
1	F	289	ILE
1	F	291	ILE
1	F	306	ILE
1	F	309	THR
1	F	329	THR

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Mol	Chain	Res	Type
1	F	330	THR
1	F	337	ILE
1	F	340	VAL
1	F	348	ILE
1	F	357	LEU
1	F	366	LEU
1	F	367	ILE
1	F	370	ILE
1	F	394	THR
1	F	406	VAL
1	F	414	GLU
1	F	415	ASN
1	F	425	LEU
1	F	433	LYS
1	F	434	SER
1	F	445	ILE
1	F	447	MET
1	F	450	SER
1	F	456	MET
1	F	466	ILE
1	F	472	ILE
1	F	483	ILE
1	F	488	LEU
1	F	489	THR
1	F	534	ILE
1	F	544	ILE
1	F	548	ILE
1	F	553	ILE
1	F	561	THR
1	F	578	THR
1	F	611	THR
1	F	629	ILE
1	F	634	TRP
1	F	663	VAL
1	F	674	LEU
1	F	681	ASP
1	F	682	LEU
1	F	690	VAL
1	F	699	ARG
1	F	704	MET
1	F	712	LEU
1	F	720	MET

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Mol	Chain	Res	Type
1	F	730	ILE
1	F	745	ILE
1	F	762	ILE
1	F	826	ILE
1	F	859	THR
1	F	866	ARG
1	F	867	LEU
1	F	875	LEU
1	F	878	LEU
1	F	879	SER
1	F	881	LEU
1	F	890	LEU
1	F	903	VAL
1	F	932	THR
1	F	934	ILE
1	F	942	ILE
1	F	945	VAL
1	F	958	ILE
1	F	964	GLU
1	F	974	VAL
1	F	981	ILE
1	F	982	LEU
1	F	991	THR
1	F	1005	VAL
1	F	1015	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (176) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	33	ASN
1	A	68	GLN
1	A	83	ASN
1	A	108	GLN
1	A	156	ASN
1	A	181	GLN
1	A	194	ASN
1	A	213	GLN
1	A	228	GLN
1	A	231	ASN
1	A	245	GLN
1	A	254	ASN
1	A	259	GLN

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Mol	Chain	Res	Type
1	A	273	GLN
1	A	308	GLN
1	A	360	GLN
1	A	437	GLN
1	A	569	GLN
1	A	575	GLN
1	A	577	GLN
1	A	616	ASN
1	A	642	ASN
1	A	652	GLN
1	A	654	HIS
1	A	687	GLN
1	A	700	ASN
1	A	708	GLN
1	A	725	GLN
1	A	792	ASN
1	A	819	ASN
1	A	871	GLN
1	A	922	ASN
1	A	952	HIS
1	B	34	GLN
1	B	67	GLN
1	B	104	GLN
1	B	108	GLN
1	B	112	GLN
1	B	125	GLN
1	B	156	ASN
1	B	163	GLN
1	B	176	GLN
1	B	181	GLN
1	B	211	ASN
1	B	228	GLN
1	B	231	ASN
1	B	245	GLN
1	B	278	ASN
1	B	308	GLN
1	B	312	ASN
1	B	360	GLN
1	B	391	ASN
1	B	415	ASN
1	B	569	GLN
1	B	575	GLN

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Mol	Chain	Res	Type
1	B	616	ASN
1	B	652	GLN
1	B	676	ASN
1	B	685	GLN
1	B	687	GLN
1	B	692	HIS
1	B	759	ASN
1	B	773	GLN
1	B	792	ASN
1	B	819	ASN
1	B	922	ASN
1	B	927	GLN
1	C	34	GLN
1	C	67	GLN
1	C	96	GLN
1	C	109	ASN
1	C	112	GLN
1	C	161	ASN
1	C	218	GLN
1	C	280	GLN
1	C	282	ASN
1	C	319	GLN
1	C	391	ASN
1	C	415	ASN
1	C	439	GLN
1	C	469	GLN
1	C	508	HIS
1	C	588	GLN
1	C	652	GLN
1	C	654	HIS
1	C	692	HIS
1	C	713	GLN
1	C	759	ASN
1	D	33	ASN
1	D	68	GLN
1	D	83	ASN
1	D	108	GLN
1	D	125	GLN
1	D	156	ASN
1	D	181	GLN
1	D	194	ASN
1	D	213	GLN

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Mol	Chain	Res	Type
1	D	228	GLN
1	D	231	ASN
1	D	245	GLN
1	D	273	GLN
1	D	308	GLN
1	D	360	GLN
1	D	437	GLN
1	D	569	GLN
1	D	575	GLN
1	D	577	GLN
1	D	616	ASN
1	D	622	GLN
1	D	642	ASN
1	D	652	GLN
1	D	654	HIS
1	D	685	GLN
1	D	687	GLN
1	D	697	GLN
1	D	700	ASN
1	D	718	ASN
1	D	725	GLN
1	D	792	ASN
1	D	819	ASN
1	D	871	GLN
1	D	922	ASN
1	D	952	HIS
1	E	34	GLN
1	E	46	GLN
1	E	67	GLN
1	E	104	GLN
1	E	108	GLN
1	E	112	GLN
1	E	125	GLN
1	E	156	ASN
1	E	163	GLN
1	E	176	GLN
1	E	181	GLN
1	E	211	ASN
1	E	228	GLN
1	E	231	ASN
1	E	245	GLN
1	E	278	ASN

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Mol	Chain	Res	Type
1	E	308	GLN
1	E	312	ASN
1	E	360	GLN
1	E	391	ASN
1	E	415	ASN
1	E	575	GLN
1	E	616	ASN
1	E	652	GLN
1	E	685	GLN
1	E	692	HIS
1	E	759	ASN
1	E	773	GLN
1	E	792	ASN
1	E	819	ASN
1	E	922	ASN
1	E	927	GLN
1	F	34	GLN
1	F	67	GLN
1	F	96	GLN
1	F	161	ASN
1	F	218	GLN
1	F	280	GLN
1	F	282	ASN
1	F	319	GLN
1	F	391	ASN
1	F	415	ASN
1	F	439	GLN
1	F	469	GLN
1	F	508	HIS
1	F	517	ASN
1	F	577	GLN
1	F	588	GLN
1	F	652	GLN
1	F	654	HIS
1	F	692	HIS
1	F	713	GLN
1	F	759	ASN

### 5.3.3 RNA ⓘ

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 oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

8 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
2	LMT	D	2026	-	36,36,36	0.71	1 (2%)	47,47,47	1.79	9 (19%)
2	LMT	A	2026	-	36,36,36	0.57	0	47,47,47	1.48	7 (14%)
2	LMT	B	2032	-	36,36,36	0.77	1 (2%)	47,47,47	2.01	10 (21%)
2	LMT	B	2031	-	36,36,36	0.97	1 (2%)	47,47,47	1.44	9 (19%)
2	LMT	E	2032	-	36,36,36	0.63	1 (2%)	47,47,47	1.39	5 (10%)
2	LMT	B	2033	-	36,36,36	1.19	3 (8%)	47,47,47	3.67	19 (40%)
2	LMT	E	2033	-	36,36,36	1.11	3 (8%)	47,47,47	3.60	18 (38%)
2	LMT	E	2031	-	36,36,36	0.89	1 (2%)	47,47,47	1.83	9 (19%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	LMT	D	2026	-	-	5/21/61/61	0/2/2/2
2	LMT	A	2026	-	-	7/21/61/61	0/2/2/2
2	LMT	B	2032	-	-	1/21/61/61	0/2/2/2
2	LMT	B	2031	-	-	1/21/61/61	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	LMT	E	2032	-	-	5/21/61/61	0/2/2/2
2	LMT	B	2033	-	-	7/21/61/61	0/2/2/2
2	LMT	E	2033	-	-	7/21/61/61	0/2/2/2
2	LMT	E	2031	-	-	1/21/61/61	0/2/2/2

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2033	LMT	O1'-C1'	4.38	1.47	1.40
2	E	2033	LMT	O1'-C1'	3.86	1.46	1.40
2	B	2032	LMT	O1'-C1'	3.76	1.46	1.40
2	B	2031	LMT	O1'-C1'	3.49	1.46	1.40
2	E	2031	LMT	O1'-C1'	3.24	1.45	1.40
2	B	2033	LMT	C4'-C5'	2.49	1.59	1.52
2	D	2026	LMT	O1'-C1'	2.49	1.44	1.40
2	E	2032	LMT	O1'-C1'	2.47	1.44	1.40
2	B	2033	LMT	O5'-C5'	2.10	1.49	1.44
2	E	2033	LMT	O5'-C5'	2.09	1.49	1.44
2	E	2033	LMT	O1B-C1B	2.06	1.47	1.41

All (86) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2033	LMT	C1-O1'-C1'	14.03	137.65	113.68
2	E	2033	LMT	C1-O1'-C1'	13.34	136.47	113.68
2	B	2033	LMT	C1B-O1B-C4'	-10.48	93.14	117.98
2	E	2033	LMT	C1B-O1B-C4'	-10.09	94.06	117.98
2	B	2033	LMT	C3'-C4'-C5'	-8.18	92.81	110.93
2	E	2033	LMT	C3'-C4'-C5'	-8.11	92.95	110.93
2	B	2032	LMT	C1-O1'-C1'	-7.23	101.33	113.68
2	E	2031	LMT	C1-O1'-C1'	-6.38	102.78	113.68
2	E	2033	LMT	O5'-C5'-C4'	6.24	122.62	109.72
2	B	2033	LMT	O5'-C5'-C4'	6.22	122.58	109.72
2	E	2032	LMT	C1-O1'-C1'	-6.13	103.21	113.68
2	B	2032	LMT	C3'-C4'-C5'	-5.84	98.00	110.93
2	D	2026	LMT	O1'-C1'-C2'	5.81	117.10	108.27
2	E	2033	LMT	O1'-C1-C2	5.60	128.37	109.37
2	B	2033	LMT	O1B-C4'-C5'	5.08	122.81	109.48
2	E	2033	LMT	O1B-C4'-C5'	4.96	122.48	109.48
2	D	2026	LMT	O1'-C1-C2	-4.80	93.06	109.37
2	B	2033	LMT	O1B-C4'-C3'	-4.68	95.33	107.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2033	LMT	O1'-C1-C2	4.48	124.58	109.37
2	E	2033	LMT	O1B-C1B-O5B	4.39	122.23	110.69
2	D	2026	LMT	O5'-C5'-C6'	-4.34	95.67	106.44
2	E	2031	LMT	O1'-C1-C2	4.23	123.72	109.37
2	E	2031	LMT	O5B-C5B-C6B	4.22	116.91	106.44
2	B	2033	LMT	O1B-C1B-O5B	4.19	121.71	110.69
2	A	2026	LMT	O1'-C1'-C2'	4.13	114.54	108.27
2	E	2033	LMT	O5'-C1'-O1'	4.12	119.78	110.04
2	B	2032	LMT	C6B-C5B-C4B	-4.05	103.08	113.02
2	B	2033	LMT	O1'-C1'-C2'	4.03	114.39	108.27
2	B	2033	LMT	O5'-C1'-O1'	3.99	119.46	110.04
2	E	2033	LMT	C4B-C3B-C2B	-3.97	103.85	110.83
2	E	2033	LMT	O1B-C4'-C3'	-3.74	97.73	107.23
2	B	2033	LMT	C4B-C3B-C2B	-3.72	104.29	110.83
2	E	2033	LMT	O2B-C2B-C1B	3.72	118.93	110.08
2	E	2031	LMT	C6'-C5'-C4'	-3.71	102.94	113.38
2	E	2031	LMT	O1'-C1'-C2'	3.60	113.75	108.27
2	D	2026	LMT	O1B-C4'-C5'	3.52	118.71	109.48
2	B	2033	LMT	O2B-C2B-C1B	3.49	118.39	110.08
2	B	2032	LMT	O1B-C1B-O5B	3.45	119.78	110.69
2	B	2031	LMT	C3'-C4'-C5'	-3.45	103.29	110.93
2	D	2026	LMT	O5'-C1'-C2'	-3.39	103.40	110.37
2	B	2033	LMT	C3B-C4B-C5B	-3.38	104.11	110.23
2	E	2033	LMT	O1'-C1'-C2'	3.36	113.38	108.27
2	E	2033	LMT	C3B-C4B-C5B	-3.33	104.19	110.23
2	B	2032	LMT	O5'-C1'-O1'	3.31	117.85	110.04
2	D	2026	LMT	O5'-C1'-O1'	-3.25	102.36	110.04
2	A	2026	LMT	O1B-C4'-C3'	3.23	115.45	107.23
2	E	2033	LMT	C1B-O5B-C5B	-3.21	107.44	113.72
2	E	2032	LMT	O1B-C1B-O5B	-3.18	102.32	110.69
2	B	2031	LMT	O5'-C1'-O1'	3.13	117.44	110.04
2	B	2033	LMT	O5B-C5B-C4B	3.12	115.31	109.70
2	B	2033	LMT	C1B-O5B-C5B	-3.03	107.80	113.72
2	B	2033	LMT	O5'-C1'-C2'	-3.03	104.15	110.37
2	B	2031	LMT	O1B-C4'-C5'	3.02	117.39	109.48
2	A	2026	LMT	O5'-C5'-C6'	-3.01	98.99	106.44
2	E	2031	LMT	O1B-C1B-O5B	-2.97	102.87	110.69
2	B	2033	LMT	C2'-C3'-C4'	2.94	116.36	109.68
2	E	2031	LMT	O1B-C4'-C3'	2.93	114.69	107.23
2	A	2026	LMT	O5'-C1'-O1'	-2.93	103.12	110.04
2	E	2033	LMT	O5B-C5B-C4B	2.86	114.85	109.70
2	A	2026	LMT	C6'-C5'-C4'	-2.84	105.38	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2033	LMT	C6B-C5B-C4B	-2.82	106.10	113.02
2	E	2033	LMT	C6B-C5B-C4B	-2.80	106.14	113.02
2	B	2031	LMT	O1B-C1B-O5B	2.78	118.01	110.69
2	E	2033	LMT	C2'-C3'-C4'	2.74	115.91	109.68
2	E	2033	LMT	O5'-C1'-C2'	-2.65	104.92	110.37
2	A	2026	LMT	O1B-C1B-O5B	-2.61	103.83	110.69
2	B	2031	LMT	C1-O1'-C1'	-2.56	109.31	113.68
2	E	2032	LMT	O1'-C1'-C2'	2.56	112.16	108.27
2	E	2031	LMT	C1B-O1B-C4'	-2.55	111.92	117.98
2	E	2031	LMT	O1B-C1B-C2B	2.52	114.30	108.09
2	E	2032	LMT	C1'-O5'-C5'	-2.47	108.90	113.72
2	B	2032	LMT	O1B-C1B-C2B	-2.47	102.02	108.09
2	B	2031	LMT	C4B-C3B-C2B	-2.44	106.54	110.83
2	B	2031	LMT	C1B-O1B-C4'	-2.37	112.35	117.98
2	B	2032	LMT	C1B-C2B-C3B	2.32	114.89	110.01
2	B	2032	LMT	O1'-C1'-C2'	2.31	111.78	108.27
2	B	2031	LMT	O5B-C1B-C2B	-2.25	105.74	110.37
2	B	2032	LMT	C1B-O5B-C5B	2.22	118.06	113.72
2	D	2026	LMT	C6B-C5B-C4B	-2.20	107.61	113.02
2	B	2033	LMT	O2B-C2B-C3B	-2.14	105.34	110.38
2	E	2032	LMT	C9-C8-C7	-2.08	103.84	114.37
2	A	2026	LMT	O1B-C1B-C2B	2.06	113.17	108.09
2	D	2026	LMT	C6'-C5'-C4'	2.04	119.11	113.38
2	B	2032	LMT	O5'-C5'-C4'	2.03	113.91	109.72
2	D	2026	LMT	C4B-C3B-C2B	-2.02	107.28	110.83
2	B	2031	LMT	C1B-C2B-C3B	2.02	114.27	110.01

There are no chirality outliers.

All (34) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	2026	LMT	O5'-C1'-O1'-C1
2	B	2033	LMT	O5'-C1'-O1'-C1
2	B	2033	LMT	C2-C1-O1'-C1'
2	D	2026	LMT	C2'-C1'-O1'-C1
2	D	2026	LMT	O5'-C1'-O1'-C1
2	E	2033	LMT	O5'-C1'-O1'-C1
2	E	2033	LMT	C2-C1-O1'-C1'
2	B	2033	LMT	O5B-C1B-O1B-C4'
2	B	2033	LMT	C3'-C4'-O1B-C1B
2	E	2033	LMT	O5B-C1B-O1B-C4'
2	E	2033	LMT	C3'-C4'-O1B-C1B

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Mol	Chain	Res	Type	Atoms
2	D	2026	LMT	C5'-C4'-O1B-C1B
2	D	2026	LMT	C3'-C4'-O1B-C1B
2	E	2032	LMT	O5B-C5B-C6B-O6B
2	A	2026	LMT	O5B-C5B-C6B-O6B
2	A	2026	LMT	C2'-C1'-O1'-C1
2	E	2033	LMT	C2'-C1'-O1'-C1
2	B	2033	LMT	C2'-C1'-O1'-C1
2	E	2032	LMT	C3'-C4'-O1B-C1B
2	E	2033	LMT	C2B-C1B-O1B-C4'
2	A	2026	LMT	C3'-C4'-O1B-C1B
2	E	2032	LMT	C2-C3-C4-C5
2	E	2032	LMT	C2-C1-O1'-C1'
2	E	2032	LMT	C5'-C4'-O1B-C1B
2	E	2031	LMT	C3'-C4'-O1B-C1B
2	E	2033	LMT	C4'-C5'-C6'-O6'
2	B	2033	LMT	C2B-C1B-O1B-C4'
2	B	2031	LMT	C3'-C4'-O1B-C1B
2	B	2033	LMT	C4'-C5'-C6'-O6'
2	A	2026	LMT	C2B-C1B-O1B-C4'
2	A	2026	LMT	C5'-C4'-O1B-C1B
2	B	2032	LMT	C2B-C1B-O1B-C4'
2	D	2026	LMT	C2B-C1B-O1B-C4'
2	A	2026	LMT	O5B-C1B-O1B-C4'

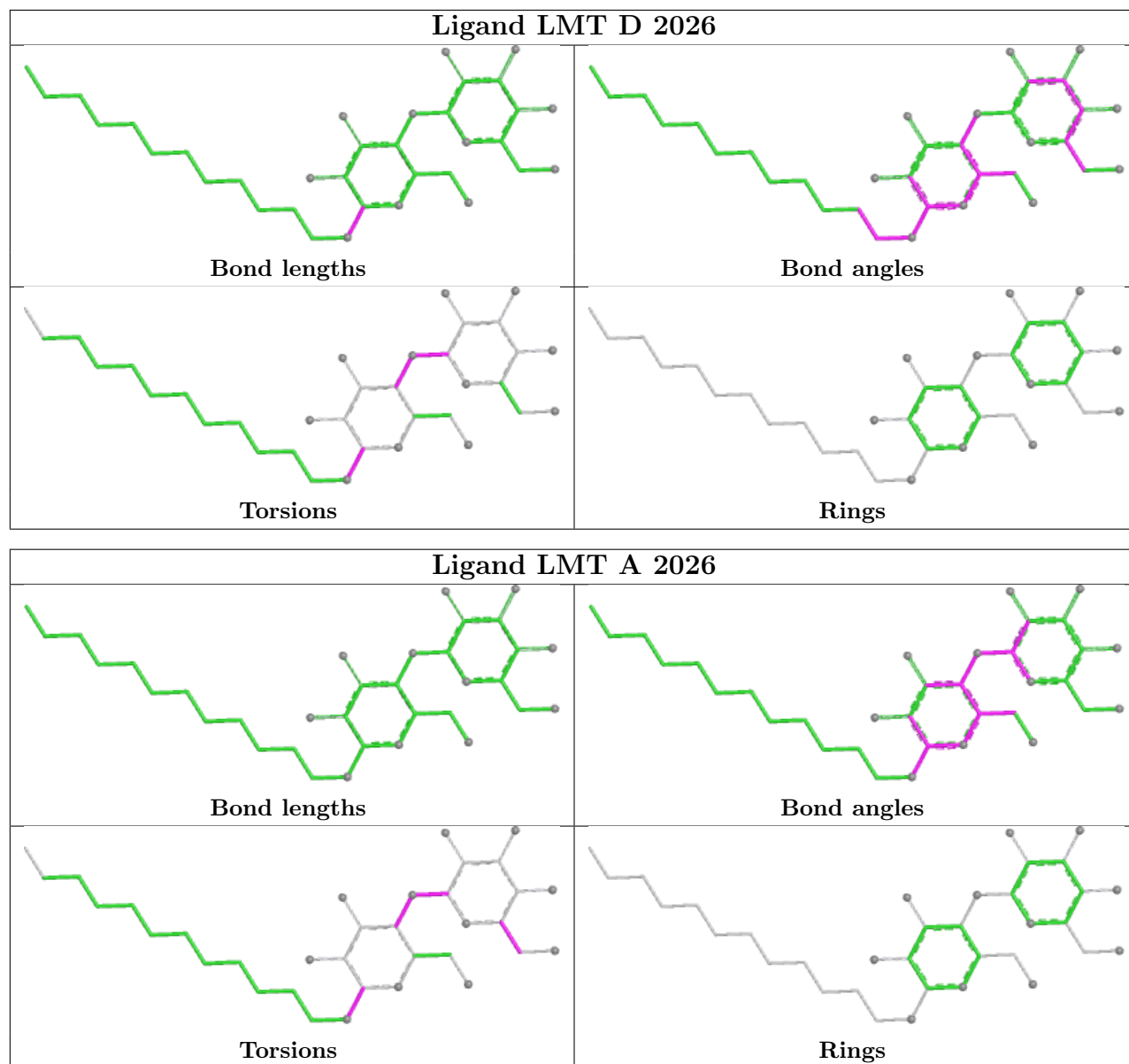
There are no ring outliers.

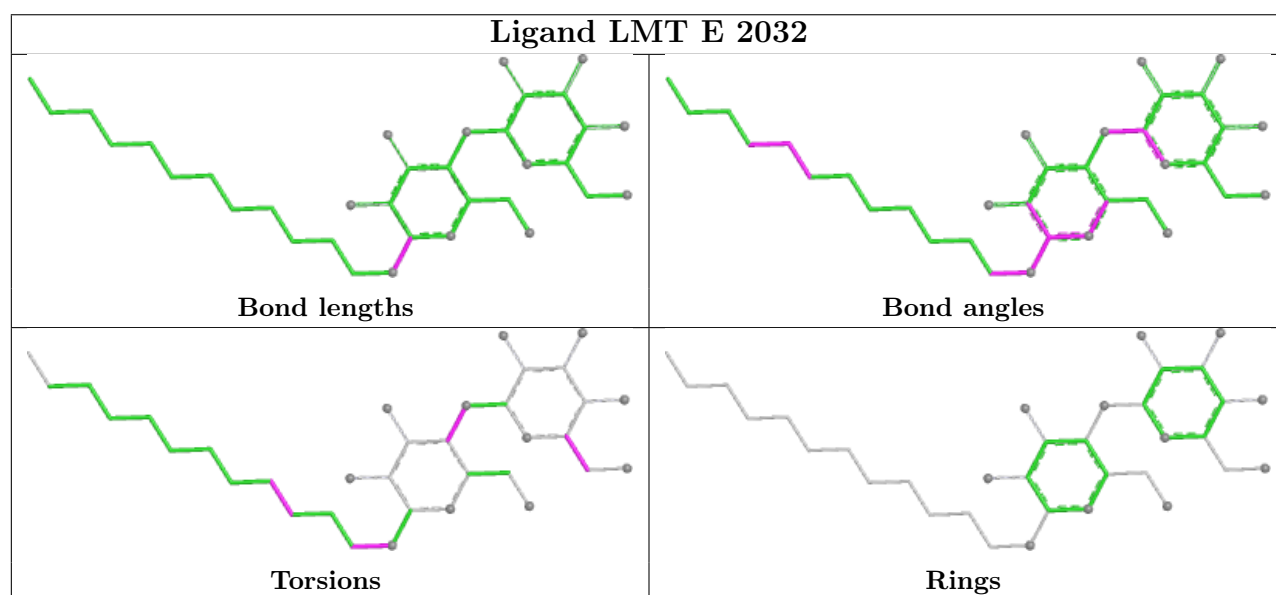
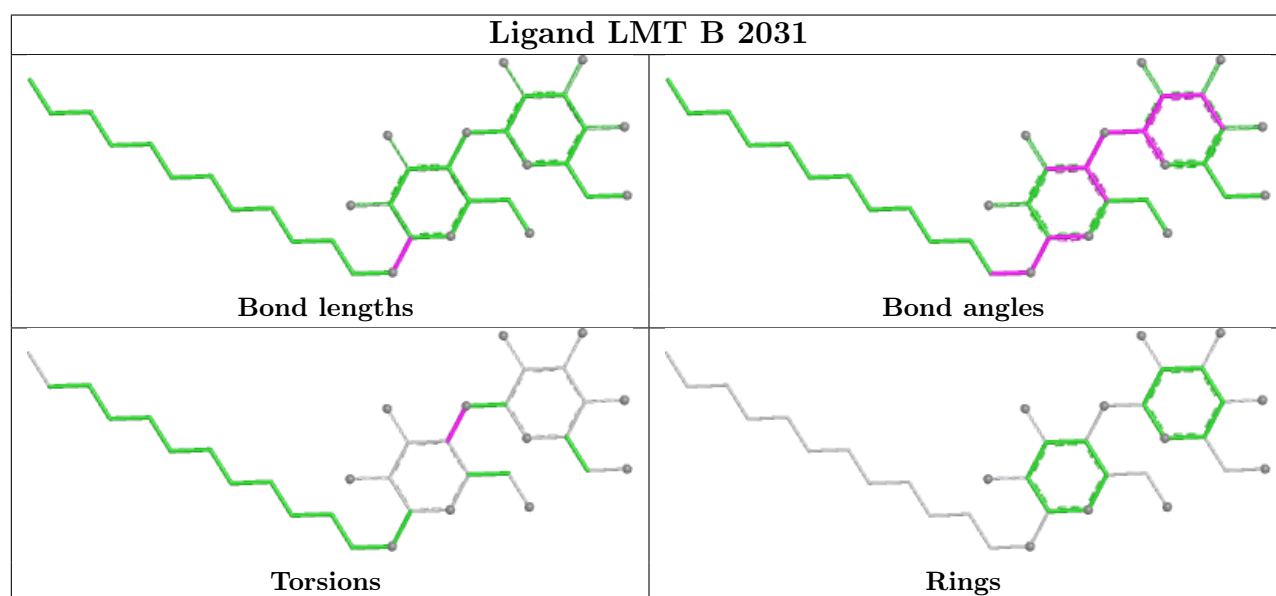
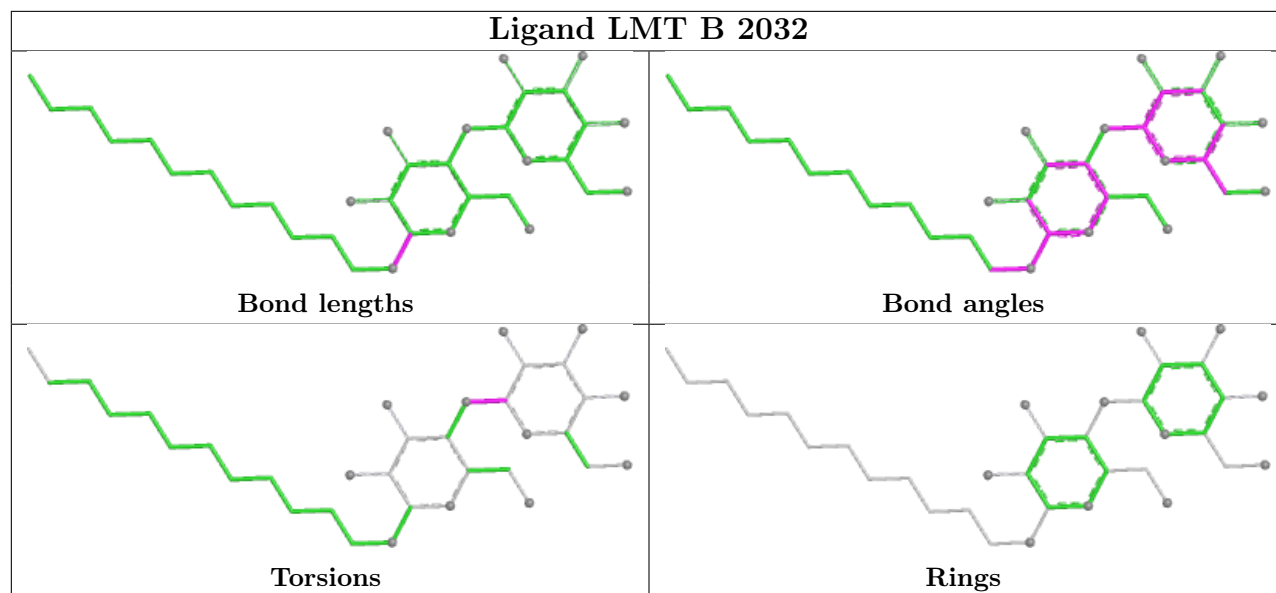
8 monomers are involved in 54 short contacts:

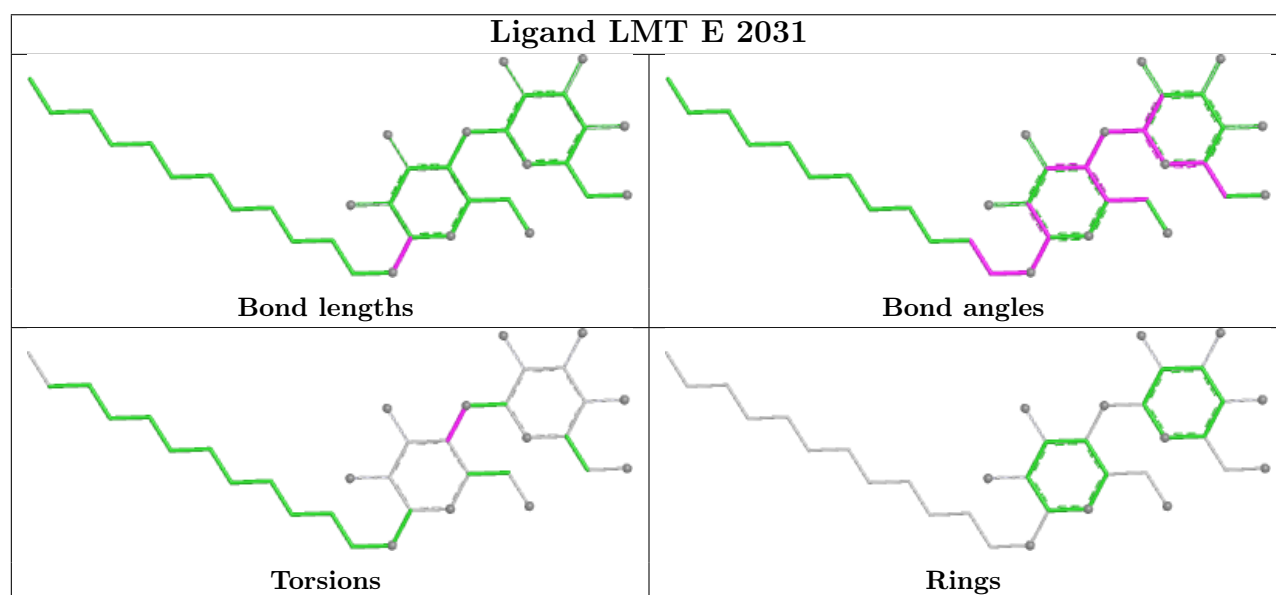
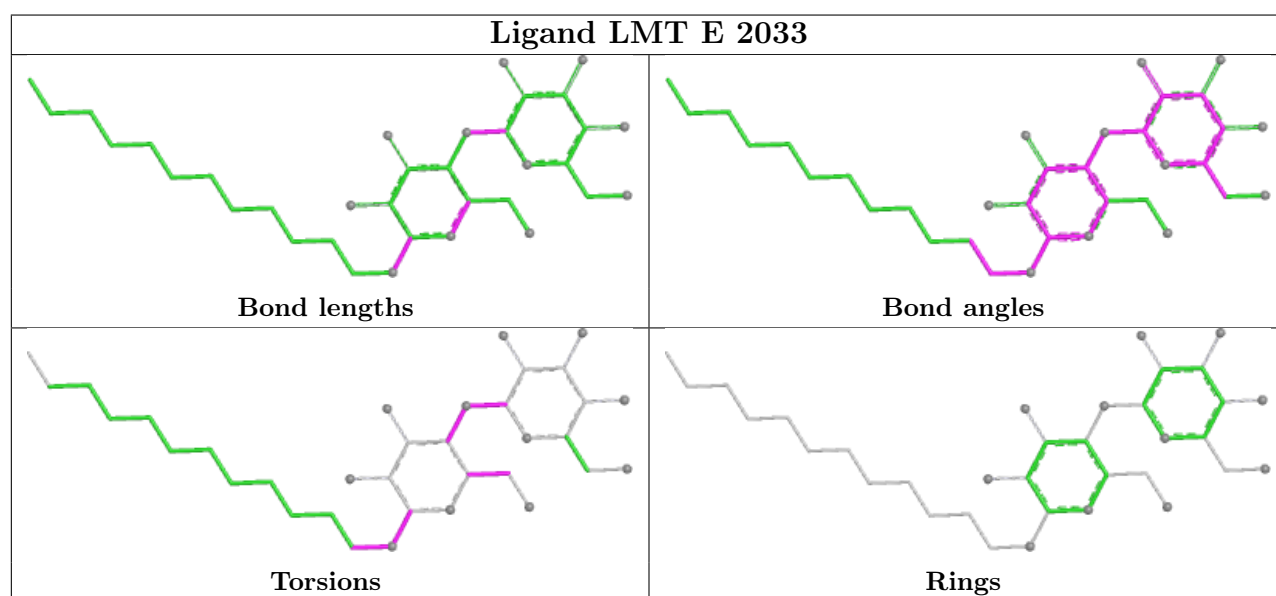
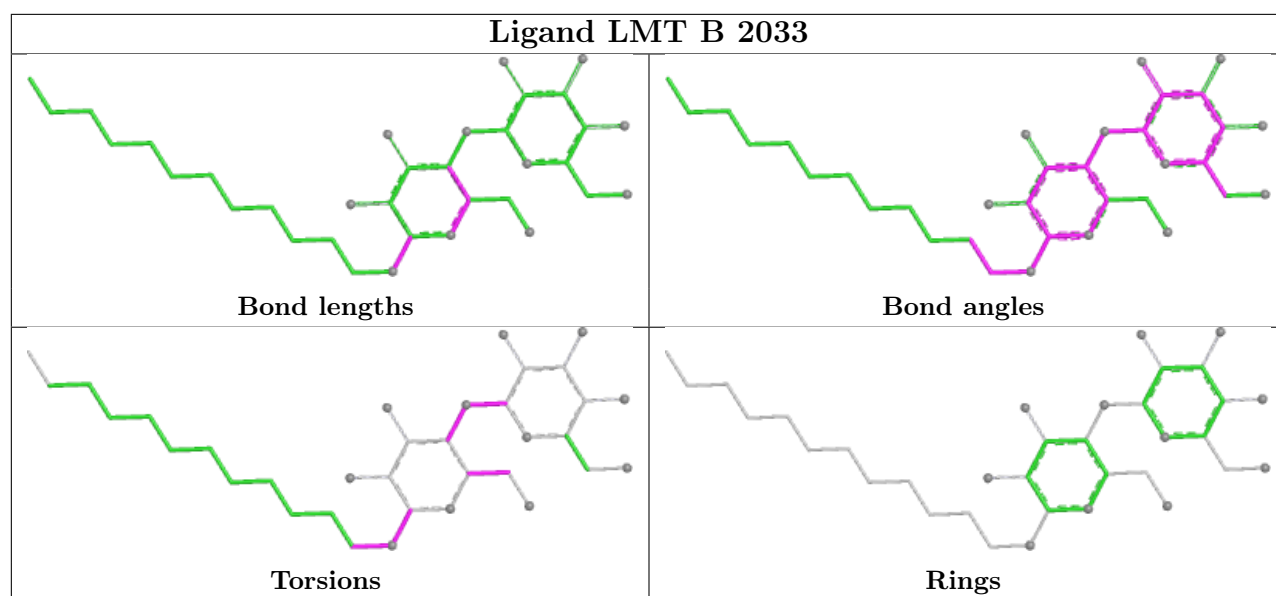
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	2026	LMT	5	0
2	A	2026	LMT	10	0
2	B	2032	LMT	4	0
2	B	2031	LMT	5	0
2	E	2032	LMT	8	0
2	B	2033	LMT	8	0
2	E	2033	LMT	10	0
2	E	2031	LMT	4	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier.

Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.







## 5.7 Other polymers

There are no such residues in this entry.

## 5.8 Polymer linkage issues

There are no chain breaks in this entry.

## 6 Fit of model and data

### 6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å <sup>2</sup> )	Q<0.9
1	A	1004/1052 (95%)	0.41	60 (5%)	27	14	54, 91, 132, 178	0
1	B	1030/1052 (97%)	0.44	63 (6%)	27	14	53, 91, 143, 188	0
1	C	1028/1052 (97%)	0.52	68 (6%)	24	12	58, 101, 178, 238	0
1	D	998/1052 (94%)	0.41	65 (6%)	25	13	58, 91, 134, 179	0
1	E	1012/1052 (96%)	0.42	64 (6%)	26	13	55, 93, 143, 189	0
1	F	1030/1052 (97%)	0.49	87 (8%)	17	9	59, 100, 177, 238	0
All	All	6102/6312 (96%)	0.45	407 (6%)	24	12	53, 94, 153, 238	0

All (407) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	640	GLY	6.9
1	C	818	TYR	6.7
1	E	339	GLU	6.4
1	F	156	ASN	6.3
1	D	722	ASP	5.9
1	D	585	GLU	5.8
1	E	688	ALA	5.8
1	F	85	ASP	5.7
1	E	251	LEU	5.7
1	B	678	THR	5.7
1	E	335	ALA	5.5
1	F	271	GLY	5.4
1	F	276	SER	5.4
1	B	176	GLN	5.0
1	F	502	LYS	5.0
1	C	180	SER	4.9
1	A	839	ALA	4.9
1	B	580	PRO	4.9
1	B	581	GLY	4.8

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Mol	Chain	Res	Type	RSRZ
1	E	952	HIS	4.8
1	B	587	THR	4.7
1	F	591	VAL	4.7
1	F	613	THR	4.7
1	C	182	TYR	4.7
1	C	639	GLY	4.6
1	E	114	ALA	4.6
1	F	614	GLY	4.6
1	F	123	GLN	4.5
1	C	683	PHE	4.4
1	D	160	SER	4.4
1	B	122	VAL	4.4
1	B	660	ASP	4.4
1	B	132	ALA	4.3
1	A	276	SER	4.3
1	A	841	ALA	4.3
1	A	542	LEU	4.3
1	E	567	GLU	4.3
1	F	277	ILE	4.3
1	A	732	ASP	4.3
1	E	135	ASN	4.3
1	A	274	ASP	4.1
1	F	803	PHE	4.1
1	E	238	THR	4.1
1	E	833	GLY	4.0
1	F	626	MET	4.0
1	D	134	LYS	4.0
1	F	694	VAL	4.0
1	F	818	TYR	3.9
1	E	336	SER	3.9
1	F	182	TYR	3.9
1	E	260	VAL	3.9
1	F	624	SER	3.9
1	D	638	PRO	3.9
1	F	553	ILE	3.8
1	D	301	ASP	3.8
1	F	323	VAL	3.8
1	E	634	TRP	3.8
1	A	271	GLY	3.8
1	F	625	GLY	3.8
1	C	222	LEU	3.8
1	C	147	GLY	3.8

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Mol	Chain	Res	Type	RSRZ
1	E	689	GLY	3.8
1	A	147	GLY	3.7
1	D	218	GLN	3.7
1	F	615	PHE	3.7
1	D	635	GLU	3.7
1	C	156	ASN	3.7
1	E	825	GLU	3.7
1	F	675	GLY	3.7
1	A	696	LEU	3.6
1	C	638	PRO	3.6
1	A	825	GLU	3.6
1	D	570	GLY	3.6
1	E	690	VAL	3.6
1	D	718	ASN	3.6
1	E	955	GLY	3.6
1	E	456	MET	3.6
1	A	182	TYR	3.6
1	B	140	VAL	3.5
1	E	561	THR	3.5
1	D	841	ALA	3.5
1	A	337	ILE	3.5
1	C	745	ILE	3.5
1	F	753	TRP	3.5
1	F	304	LYS	3.5
1	A	403	GLY	3.5
1	F	504	ASP	3.4
1	E	250	LEU	3.4
1	D	554	TRP	3.4
1	B	723	GLU	3.4
1	D	696	LEU	3.4
1	C	120	GLN	3.4
1	B	563	PHE	3.4
1	D	422	GLU	3.4
1	A	807	LYS	3.4
1	C	728	LEU	3.3
1	F	118	LEU	3.3
1	A	753	TRP	3.3
1	C	422	GLU	3.3
1	F	422	GLU	3.3
1	E	460	GLY	3.3
1	D	327	TYR	3.2
1	D	522	SER	3.2

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Mol	Chain	Res	Type	RSRZ
1	E	834	LEU	3.2
1	A	826	ILE	3.2
1	D	164	ASP	3.2
1	B	135	ASN	3.2
1	B	566	ASP	3.2
1	B	718	ASN	3.2
1	D	161	ASN	3.2
1	A	275	TYR	3.2
1	C	273	GLN	3.2
1	A	745	ILE	3.2
1	A	272	GLY	3.2
1	C	521	LEU	3.2
1	B	456	MET	3.1
1	C	218	GLN	3.1
1	D	320	GLY	3.1
1	E	506	GLY	3.1
1	F	621	GLY	3.1
1	A	690	VAL	3.1
1	F	991	THR	3.1
1	D	157	TYR	3.1
1	E	327	TYR	3.1
1	F	771	TYR	3.1
1	D	158	ILE	3.1
1	B	218	GLN	3.1
1	B	507	GLU	3.1
1	B	610	PHE	3.1
1	F	324	VAL	3.1
1	E	51	GLY	3.1
1	C	203	VAL	3.1
1	D	600	GLU	3.1
1	D	785	LEU	3.0
1	F	674	LEU	3.0
1	E	681	ASP	3.0
1	A	682	LEU	3.0
1	A	686	ASP	3.0
1	D	521	LEU	3.0
1	B	327	TYR	3.0
1	C	726	TYR	3.0
1	B	46	GLN	3.0
1	A	718	ASN	3.0
1	C	718	ASN	3.0
1	A	824	MET	3.0

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Mol	Chain	Res	Type	RSRZ
1	F	300	LEU	3.0
1	F	639	GLY	3.0
1	F	278	ASN	3.0
1	B	463	THR	3.0
1	A	230	LEU	2.9
1	E	117	LEU	2.9
1	D	499	PRO	2.9
1	D	753	TRP	2.9
1	F	726	TYR	2.9
1	C	333	VAL	2.9
1	B	923	ASP	2.9
1	F	620	ARG	2.9
1	B	804	ALA	2.9
1	D	913	LEU	2.9
1	B	955	GLY	2.9
1	C	681	ASP	2.9
1	C	183	SER	2.9
1	C	85	ASP	2.9
1	A	683	PHE	2.9
1	D	275	TYR	2.9
1	E	396	PHE	2.9
1	E	1028	SER	2.8
1	C	150	THR	2.8
1	C	274	ASP	2.8
1	F	429	GLU	2.8
1	E	956	LYS	2.8
1	B	932	THR	2.8
1	F	622	GLN	2.8
1	B	330	THR	2.8
1	B	392	THR	2.8
1	B	178	PHE	2.8
1	B	503	GLY	2.8
1	A	134	LYS	2.8
1	D	824	MET	2.7
1	C	179	GLY	2.7
1	B	224	ALA	2.7
1	B	139	VAL	2.7
1	F	308	GLN	2.7
1	A	869	GLY	2.7
1	C	568	ASP	2.7
1	E	231	ASN	2.7
1	A	439	GLN	2.7

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Mol	Chain	Res	Type	RSRZ
1	D	542	LEU	2.7
1	F	152	GLU	2.7
1	B	221	GLY	2.7
1	C	640	GLY	2.7
1	E	79	SER	2.7
1	C	778	ALA	2.7
1	C	148	SER	2.7
1	F	618	ALA	2.7
1	D	636	GLU	2.7
1	F	226	LYS	2.7
1	B	523	THR	2.7
1	B	334	SER	2.7
1	E	686	ASP	2.7
1	A	704	MET	2.6
1	E	319	GLN	2.6
1	D	220	GLY	2.6
1	E	562	ALA	2.6
1	A	660	ASP	2.6
1	A	954	GLN	2.6
1	D	318	PRO	2.6
1	C	622	GLN	2.6
1	F	224	ALA	2.6
1	B	136	PHE	2.6
1	D	519	MET	2.6
1	F	439	GLN	2.6
1	E	341	VAL	2.6
1	C	753	TRP	2.6
1	C	104	GLN	2.6
1	C	920	LEU	2.6
1	F	425	LEU	2.6
1	A	694	VAL	2.6
1	F	124	ARG	2.6
1	A	932	THR	2.6
1	F	678	THR	2.6
1	F	322	LYS	2.5
1	A	730	ILE	2.5
1	A	656	PHE	2.5
1	C	217	GLY	2.5
1	F	225	VAL	2.5
1	C	783	ASP	2.5
1	E	337	ILE	2.5
1	E	617	PHE	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	331	PRO	2.5
1	C	49	TYR	2.5
1	B	117	LEU	2.5
1	C	181	GLN	2.5
1	E	218	GLN	2.5
1	D	299	ALA	2.5
1	E	232	ALA	2.5
1	D	83	ASN	2.5
1	D	135	ASN	2.5
1	E	515	TRP	2.5
1	D	142	VAL	2.5
1	F	612	VAL	2.5
1	B	522	SER	2.5
1	F	802	ALA	2.5
1	E	953	GLU	2.5
1	A	73	ASP	2.5
1	B	170	LYS	2.5
1	D	853	GLY	2.5
1	A	868	SER	2.4
1	A	693	GLU	2.4
1	F	789	TYR	2.4
1	C	825	GLU	2.4
1	D	810	TYR	2.4
1	B	841	ALA	2.4
1	B	124	ARG	2.4
1	D	515	TRP	2.4
1	F	690	VAL	2.4
1	C	149	MET	2.4
1	F	635	GLU	2.4
1	E	84	SER	2.4
1	A	843	VAL	2.4
1	E	718	ASN	2.4
1	F	135	ASN	2.4
1	B	44	ALA	2.4
1	C	785	LEU	2.4
1	C	749	VAL	2.4
1	C	121	GLU	2.3
1	C	741	SER	2.3
1	D	870	SER	2.3
1	E	604	SER	2.3
1	F	755	SER	2.3
1	E	134	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
1	E	461	GLY	2.3
1	E	1000	ALA	2.3
1	A	840	MET	2.3
1	D	202	ASP	2.3
1	A	458	PHE	2.3
1	F	213	GLN	2.3
1	E	829	GLU	2.3
1	F	509	LYS	2.3
1	C	620	ARG	2.3
1	A	387	GLY	2.3
1	E	765	GLY	2.3
1	A	421	ALA	2.3
1	A	662	MET	2.3
1	F	223	PRO	2.3
1	D	721	SER	2.3
1	C	960	GLU	2.3
1	F	641	GLU	2.3
1	F	960	GLU	2.3
1	A	499	PRO	2.3
1	B	574	ALA	2.3
1	C	462	SER	2.3
1	B	134	LYS	2.3
1	C	112	GLN	2.3
1	D	237	LYS	2.3
1	F	129	VAL	2.3
1	C	81	GLU	2.2
1	C	335	ALA	2.2
1	E	552	MET	2.2
1	F	584	ALA	2.2
1	A	808	TRP	2.2
1	C	615	PHE	2.2
1	D	537	HIS	2.2
1	F	246	PHE	2.2
1	B	237	LYS	2.2
1	C	721	SER	2.2
1	E	997	SER	2.2
1	B	795	GLY	2.2
1	D	224	ALA	2.2
1	D	808	TRP	2.2
1	D	664	PHE	2.2
1	F	645	PHE	2.2
1	D	578	THR	2.2

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Mol	Chain	Res	Type	RSRZ
1	F	807	LYS	2.2
1	C	736	SER	2.2
1	F	273	GLN	2.2
1	C	819	ASN	2.2
1	A	424	GLY	2.2
1	A	917	MET	2.2
1	F	256	ASP	2.2
1	C	178	PHE	2.2
1	F	505	HIS	2.2
1	E	771	TYR	2.2
1	F	623	SER	2.2
1	B	138	MET	2.2
1	E	996	GLY	2.2
1	F	783	ASP	2.2
1	C	558	ARG	2.2
1	D	136	PHE	2.2
1	E	753	TRP	2.2
1	B	56	THR	2.2
1	F	120	GLN	2.2
1	E	861	LEU	2.2
1	C	780	MET	2.2
1	D	840	MET	2.2
1	A	638	PRO	2.2
1	D	272	GLY	2.2
1	F	701	LYS	2.2
1	B	722	ASP	2.2
1	D	199	THR	2.1
1	F	576	VAL	2.1
1	E	210	GLN	2.1
1	F	721	SER	2.1
1	C	635	GLU	2.1
1	D	579	PRO	2.1
1	D	769	ARG	2.1
1	F	314	GLU	2.1
1	F	616	ASN	2.1
1	A	72	ILE	2.1
1	E	818	TYR	2.1
1	B	551	GLY	2.1
1	C	276	SER	2.1
1	D	316	PHE	2.1
1	B	47	VAL	2.1
1	B	230	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	F	764	ARG	2.1
1	B	120	GLN	2.1
1	B	290	ALA	2.1
1	D	839	ALA	2.1
1	A	816	GLU	2.1
1	B	220	GLY	2.1
1	E	580	PRO	2.1
1	A	4	PHE	2.1
1	F	801	ASN	2.1
1	F	734	LYS	2.1
1	B	337	ILE	2.1
1	F	330	THR	2.1
1	F	297	ALA	2.1
1	B	460	GLY	2.1
1	C	144	SER	2.1
1	C	64	VAL	2.1
1	D	3	LYS	2.1
1	D	230	LEU	2.1
1	D	432	ARG	2.1
1	E	958	ILE	2.1
1	F	788	TRP	2.1
1	A	665	ALA	2.1
1	E	828	GLY	2.1
1	D	223	PRO	2.1
1	A	270	LEU	2.0
1	A	672	LEU	2.0
1	A	684	LEU	2.0
1	B	766	ARG	2.0
1	E	827	LEU	2.0
1	C	138	MET	2.0
1	B	979	ALA	2.0
1	C	330	THR	2.0
1	C	1000	ALA	2.0
1	B	579	PRO	2.0
1	C	800	PHE	2.0
1	D	628	PHE	2.0
1	C	636	GLU	2.0
1	F	649	LYS	2.0
1	C	716	ARG	2.0
1	B	336	SER	2.0
1	E	334	SER	2.0
1	A	653	MET	2.0

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Mol	Chain	Res	Type	RSRZ
1	B	282	ASN	2.0
1	F	74	ASN	2.0
1	A	858	TRP	2.0
1	F	275	TYR	2.0
1	D	833	GLY	2.0
1	C	687	GLN	2.0
1	D	716	ARG	2.0
1	A	987	LEU	2.0
1	B	564	LEU	2.0
1	E	277	ILE	2.0

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

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

## 6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

## 6.4 Ligands [i](#)

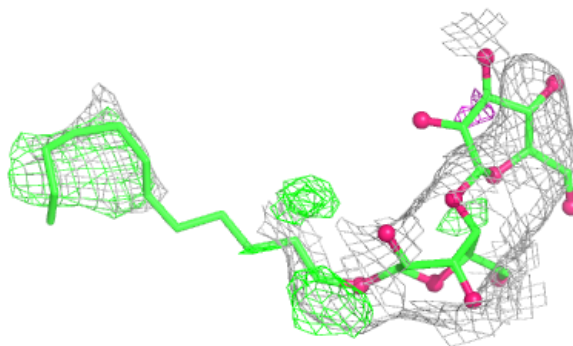
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
2	LMT	B	2033	35/35	0.69	0.28	100,155,176,183	0
2	LMT	E	2033	35/35	0.79	0.20	111,146,174,179	0
2	LMT	A	2026	35/35	0.85	0.17	80,110,145,173	0
2	LMT	D	2026	35/35	0.86	0.13	75,113,140,142	0
2	LMT	B	2031	35/35	0.87	0.14	59,82,109,114	0
2	LMT	E	2031	35/35	0.88	0.13	72,95,121,130	0
2	LMT	B	2032	35/35	0.88	0.15	52,70,157,169	0
2	LMT	E	2032	35/35	0.89	0.17	66,90,115,128	0

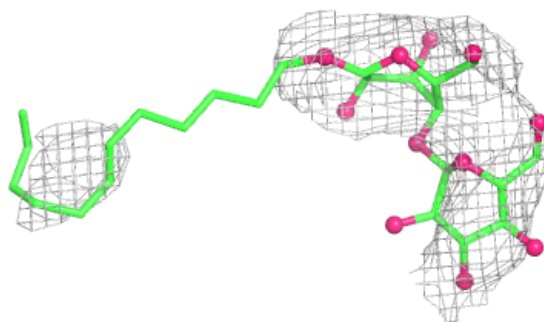
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

**Electron density around LMT B 2033:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

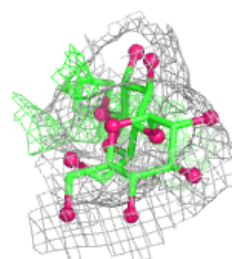
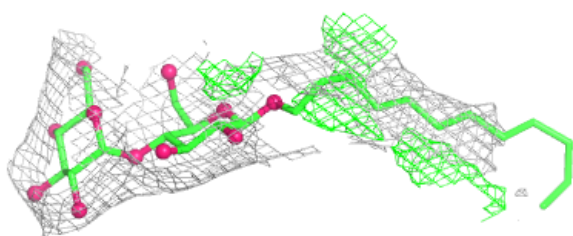
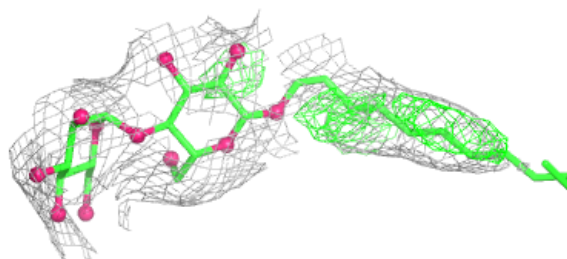
**Electron density around LMT E 2033:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

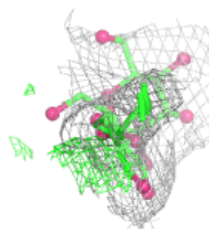
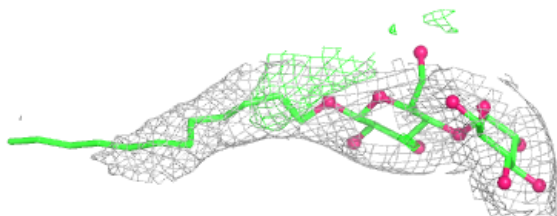
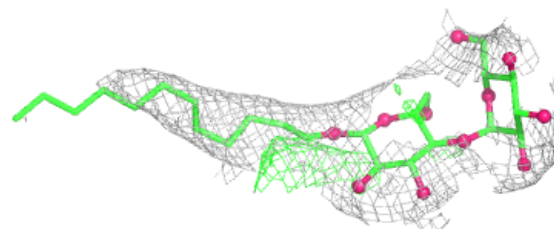


**Electron density around LMT A 2026:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

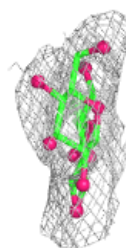
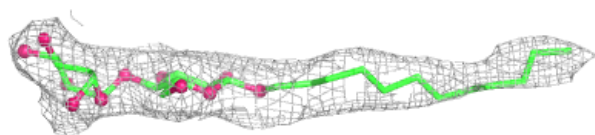
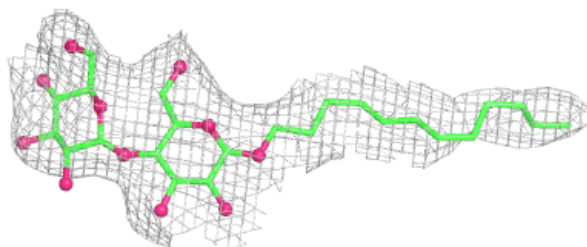
**Electron density around LMT D 2026:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

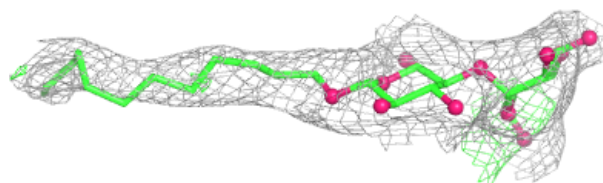


**Electron density around LMT B 2031:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

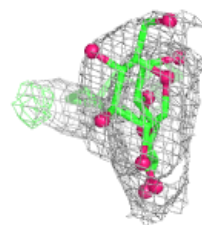
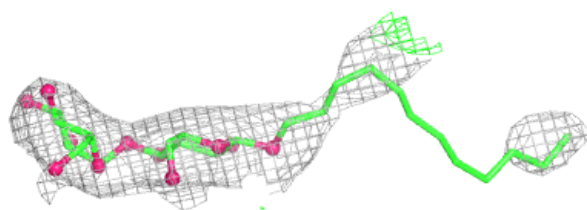
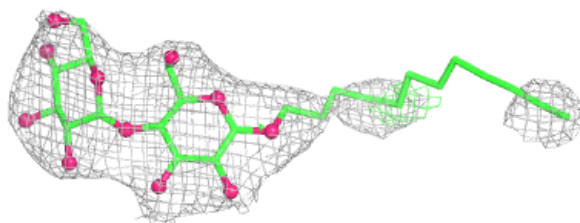
**Electron density around LMT E 2031:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

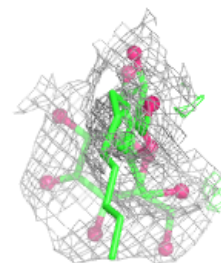
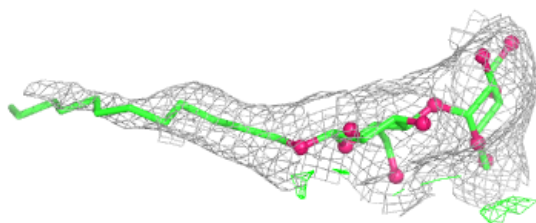
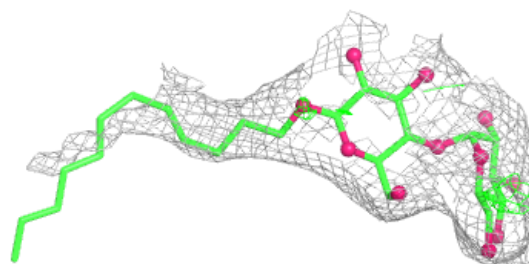


**Electron density around LMT B 2032:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

**Electron density around LMT E 2032:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



## 6.5 Other polymers ⓘ

There are no such residues in this entry.