Full wwPDB X-ray Structure Validation Report (i)

May 23, 2024 – 04:22 PM EDT

PDB ID	:	4F5X
Title	:	Location of the dsRNA-dependent polymerase, VP1, in rotavirus particles
Authors	:	Estrozi, L.F.; Settembre, E.C.; Goret, G.; McClain, B.; Zhang, X.; Chen, J.Z.; Grigorieff, N.; Harrison, S.C.
Deposited on	:	2012-05-13
Resolution	:	5.00 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

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

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

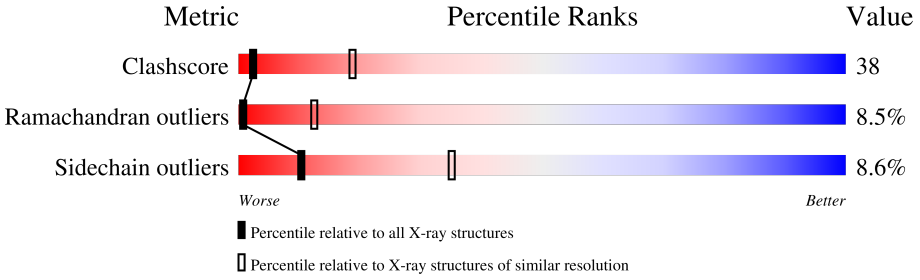
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	FAILED
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

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 5.00 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))
Clashscore	141614	1000 (6.16-3.82)
Ramachandran outliers	138981	1146 (6.20-3.80)
Sidechain outliers	138945	1122 (6.20-3.80)

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 62014 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 VP2 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	781	6374	4049	1099	1190	36	0	0	0
1	B	810	6624	4211	1138	1239	36	0	0	0

- Molecule 2 is a protein called Intermediate capsid protein VP6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	C	397	3162	2001	550	596	15	0	0	0
2	D	397	3162	2001	550	596	15	0	0	0
2	E	397	3162	2001	550	596	15	0	0	0
2	F	397	3162	2001	550	596	15	0	0	0
2	G	397	3162	2001	550	596	15	0	0	0
2	H	397	3162	2001	550	596	15	0	0	0
2	I	397	3162	2001	550	596	15	0	0	0
2	J	397	3162	2001	550	596	15	0	0	0
2	K	397	3162	2001	550	596	15	0	0	0
2	L	397	3162	2001	550	596	15	0	0	0
2	M	397	3162	2001	550	596	15	0	0	0
2	N	397	3162	2001	550	596	15	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	O	397	3162	2001	550	596	15	0	0	0

- Molecule 3 is a protein called RNA-directed RNA polymerase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	W	975	7905	5081	1308	1482	34	0	0	0

- Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Zn		
4	C	1	1	1	0	0
4	F	1	1	1	0	0
4	I	1	1	1	0	0
4	L	1	1	1	0	0
4	O	1	1	1	0	0

SEQUENCE-PLOTS INFOmissingINFO

3 Data and refinement statistics (i)

EDS failed to run properly - this section is therefore incomplete.

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	740.75Å 1198.07Å 1345.41Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 5.00	Depositor
% Data completeness (in resolution range)	(Not available) (30.00-5.00)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.49 (at 3.78Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.293 , 0.296	Depositor
Wilson B-factor (Å^2)	167.1	Xtriage
Anisotropy	0.043	Xtriage
L-test for twinning[2]	$< \|L\| > = 0.45$, $< L^2 > = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	62014	wwPDB-VP
Average B, all atoms (Å^2)	146.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.22% of the height of the origin peak. No significant pseudotranslation is detected.*

[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

4 Model quality (i)

4.1 Standard geometry (i)

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

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	0.48	0/6491	0.84	9/8806 (0.1%)
1	B	0.50	0/6745	0.82	10/9149 (0.1%)
2	C	0.51	0/3232	0.78	5/4397 (0.1%)
2	D	0.51	0/3232	0.78	5/4397 (0.1%)
2	E	0.51	0/3232	0.77	5/4397 (0.1%)
2	F	0.50	0/3232	0.76	5/4397 (0.1%)
2	G	0.50	0/3232	0.77	5/4397 (0.1%)
2	H	0.50	0/3232	0.76	5/4397 (0.1%)
2	I	0.50	0/3232	0.77	5/4397 (0.1%)
2	J	0.51	0/3232	0.78	5/4397 (0.1%)
2	K	0.51	0/3232	0.77	5/4397 (0.1%)
2	L	0.51	0/3232	0.77	5/4397 (0.1%)
2	M	0.51	0/3232	0.77	5/4397 (0.1%)
2	N	0.51	0/3232	0.77	5/4397 (0.1%)
2	O	0.52	0/3232	0.79	7/4397 (0.2%)
3	W	0.41	0/8045	0.62	3/10847 (0.0%)
All	All	0.49	0/63297	0.77	89/85963 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

There are no bond length outliers.

All (89) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	273	TYR	CB-CG-CD2	10.70	127.42	121.00
1	A	273	TYR	CB-CG-CD1	-9.86	115.08	121.00
1	A	273	TYR	CA-CB-CG	9.85	132.12	113.40
1	B	273	TYR	CB-CG-CD1	9.85	126.91	121.00
1	B	273	TYR	CB-CG-CD2	-9.21	115.48	121.00
1	B	273	TYR	CA-CB-CG	9.02	130.53	113.40
1	A	367	LEU	N-CA-C	-7.59	90.51	111.00
1	A	298	TYR	N-CA-C	7.41	131.01	111.00
2	L	384	ARG	NE-CZ-NH2	7.00	123.80	120.30
2	H	384	ARG	NE-CZ-NH2	6.92	123.76	120.30
2	F	384	ARG	NE-CZ-NH2	6.86	123.73	120.30
2	I	384	ARG	NE-CZ-NH2	6.80	123.70	120.30
2	K	384	ARG	NE-CZ-NH2	6.75	123.67	120.30
1	A	639	LYS	N-CA-C	-6.67	92.98	111.00
2	D	236	ARG	NE-CZ-NH2	6.67	123.64	120.30
2	C	384	ARG	NE-CZ-NH2	6.67	123.64	120.30
2	O	384	ARG	NE-CZ-NH2	6.66	123.63	120.30
2	N	384	ARG	NE-CZ-NH2	6.62	123.61	120.30
2	E	384	ARG	NE-CZ-NH2	6.59	123.59	120.30
2	F	236	ARG	NE-CZ-NH2	6.57	123.58	120.30
2	D	384	ARG	NE-CZ-NH2	6.57	123.58	120.30
2	C	283	ARG	NE-CZ-NH2	6.51	123.56	120.30
2	L	236	ARG	NE-CZ-NH2	6.51	123.56	120.30
2	H	236	ARG	NE-CZ-NH2	6.51	123.55	120.30
2	M	283	ARG	NE-CZ-NH2	6.46	123.53	120.30
2	J	283	ARG	NE-CZ-NH2	6.42	123.51	120.30
2	M	236	ARG	NE-CZ-NH2	6.41	123.51	120.30
2	J	384	ARG	NE-CZ-NH2	6.40	123.50	120.30
2	M	384	ARG	NE-CZ-NH2	6.38	123.49	120.30
2	J	236	ARG	NE-CZ-NH2	6.38	123.49	120.30
2	I	236	ARG	NE-CZ-NH2	6.37	123.49	120.30
2	G	236	ARG	NE-CZ-NH2	6.35	123.47	120.30
2	N	236	ARG	NE-CZ-NH2	6.34	123.47	120.30
3	W	1082	ASN	N-CA-C	6.33	128.08	111.00
2	D	283	ARG	NE-CZ-NH2	6.30	123.45	120.30
2	O	283	ARG	NE-CZ-NH2	6.27	123.44	120.30
2	N	283	ARG	NE-CZ-NH2	6.26	123.43	120.30
2	G	384	ARG	NE-CZ-NH2	6.25	123.43	120.30
2	O	236	ARG	NE-CZ-NH2	6.25	123.42	120.30
2	E	236	ARG	NE-CZ-NH2	6.23	123.42	120.30
2	C	236	ARG	NE-CZ-NH2	6.23	123.42	120.30
2	K	236	ARG	NE-CZ-NH2	6.19	123.40	120.30
2	G	283	ARG	NE-CZ-NH2	6.17	123.39	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	283	ARG	NE-CZ-NH2	6.13	123.37	120.30
2	F	283	ARG	NE-CZ-NH2	6.12	123.36	120.30
1	B	636	LYS	N-CA-C	-6.10	94.53	111.00
2	K	283	ARG	NE-CZ-NH2	6.08	123.34	120.30
2	L	283	ARG	NE-CZ-NH2	6.08	123.34	120.30
2	H	283	ARG	NE-CZ-NH2	6.06	123.33	120.30
2	I	283	ARG	NE-CZ-NH2	6.03	123.31	120.30
2	O	154	LYS	N-CA-C	-5.98	94.86	111.00
2	O	300	MET	CG-SD-CE	5.80	109.48	100.20
2	C	300	MET	CG-SD-CE	5.80	109.47	100.20
2	F	300	MET	CG-SD-CE	5.79	109.47	100.20
2	I	300	MET	CG-SD-CE	5.78	109.44	100.20
2	N	300	MET	CG-SD-CE	5.76	109.42	100.20
2	L	300	MET	CG-SD-CE	5.76	109.41	100.20
1	B	497	ILE	N-CA-C	-5.75	95.47	111.00
2	M	300	MET	CG-SD-CE	5.75	109.41	100.20
2	D	300	MET	CG-SD-CE	5.75	109.39	100.20
2	J	300	MET	CG-SD-CE	5.74	109.39	100.20
2	G	300	MET	CG-SD-CE	5.73	109.37	100.20
2	H	300	MET	CG-SD-CE	5.72	109.36	100.20
2	K	300	MET	CG-SD-CE	5.70	109.31	100.20
1	B	76	LEU	CA-CB-CG	5.69	128.40	115.30
2	E	300	MET	CG-SD-CE	5.63	109.21	100.20
3	W	1077	ARG	N-CA-C	5.57	126.05	111.00
1	B	273	TYR	CB-CA-C	-5.50	99.39	110.40
1	B	811	LEU	N-CA-C	-5.48	96.21	111.00
2	M	342	MET	CG-SD-CE	5.35	108.75	100.20
2	D	342	MET	CG-SD-CE	5.32	108.70	100.20
2	G	342	MET	CG-SD-CE	5.29	108.67	100.20
1	A	317	LEU	CA-CB-CG	-5.27	103.18	115.30
2	J	342	MET	CG-SD-CE	5.27	108.63	100.20
1	B	317	LEU	CA-CB-CG	-5.25	103.24	115.30
2	L	342	MET	CG-SD-CE	5.23	108.57	100.20
2	O	153	HIS	N-CA-C	5.22	125.09	111.00
2	E	342	MET	CG-SD-CE	5.21	108.54	100.20
2	N	342	MET	CG-SD-CE	5.21	108.53	100.20
2	F	342	MET	CG-SD-CE	5.19	108.51	100.20
2	O	342	MET	CG-SD-CE	5.19	108.50	100.20
2	I	342	MET	CG-SD-CE	5.18	108.49	100.20
1	B	82	HIS	N-CA-C	-5.17	97.05	111.00
2	C	342	MET	CG-SD-CE	5.16	108.46	100.20
3	W	1085	PHE	N-CA-C	5.16	124.92	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	K	342	MET	CG-SD-CE	5.15	108.44	100.20
2	H	342	MET	CG-SD-CE	5.14	108.43	100.20
1	A	842	LEU	CA-CB-CG	-5.07	103.64	115.30
1	A	719	GLY	N-CA-C	-5.06	100.46	113.10

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	273	TYR	Sidechain

4.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6374	0	6394	1006	0
1	B	6624	0	6652	1133	0
2	C	3162	0	3101	170	0
2	D	3162	0	3101	179	0
2	E	3162	0	3101	164	0
2	F	3162	0	3101	160	0
2	G	3162	0	3101	149	0
2	H	3162	0	3101	175	0
2	I	3162	0	3101	215	0
2	J	3162	0	3101	187	0
2	K	3162	0	3101	166	0
2	L	3162	0	3101	178	0
2	M	3162	0	3101	173	0
2	N	3162	0	3101	191	0
2	O	3162	0	3101	163	0
3	W	7905	0	7966	543	0
4	C	1	0	0	0	0
4	F	1	0	0	0	0
4	I	1	0	0	0	0
4	L	1	0	0	0	0
4	O	1	0	0	0	0
All	All	62014	0	61325	4691	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 38.

All (4691) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:75:VAL:HG22	3:W:673:VAL:CG1	1.63	1.28
1:B:771:VAL:HB	1:B:809:PHE:HB3	1.23	1.18
1:B:75:VAL:CG2	3:W:673:VAL:HG12	1.72	1.18
1:A:333:VAL:HG11	1:A:380:LYS:HA	1.27	1.15
1:A:428:GLN:OE1	1:A:456:PHE:HB2	1.46	1.13
1:A:563:MET:HE3	1:A:563:MET:HA	1.22	1.12
2:G:145:ARG:HB3	2:G:145:ARG:HH11	1.10	1.12
2:H:83:ASN:ND2	2:I:122:LEU:HB2	1.65	1.11
1:A:451:ASP:HB3	1:A:452:PRO:HD2	1.14	1.11
1:B:432:VAL:HA	1:B:436:ILE:HD11	1.18	1.11
1:B:734:ASN:HB3	1:B:737:GLU:HB2	1.28	1.10
1:B:718:TYR:HB3	1:B:721:VAL:HG21	1.33	1.10
1:A:270:ILE:HD11	1:A:292:LEU:HD11	1.31	1.09
1:B:548:ARG:NH1	1:B:878:ASN:H	1.50	1.09
2:L:22:THR:HG23	2:L:73:LEU:HD12	1.35	1.08
1:A:699:ILE:HG12	1:A:700:ALA:H	1.18	1.07
2:G:145:ARG:HD2	2:I:143:ASN:HA	1.34	1.07
1:A:318:TRP:HA	1:A:321:ILE:HD12	1.34	1.07
1:B:200:VAL:HG21	1:B:243:SER:HB3	1.13	1.07
1:B:790:ARG:HE	1:B:790:ARG:HA	0.98	1.06
2:N:106:ARG:H	2:N:106:ARG:HD3	1.17	1.06
1:B:318:TRP:HA	1:B:321:ILE:HD12	1.37	1.06
1:A:658:PRO:HG2	1:B:348:LYS:HG2	1.38	1.05
1:B:498:ARG:HB2	2:I:32:GLN:HE22	1.15	1.05
1:A:721:VAL:HG12	1:A:722:ASN:H	1.18	1.04
1:B:510:LEU:HD11	1:B:537:SER:HA	1.36	1.04
1:A:199:VAL:HG12	1:A:200:VAL:H	1.20	1.04
1:B:457:GLN:HG3	1:B:458:ILE:H	1.22	1.03
1:B:646:LEU:HA	1:B:649:LEU:HD12	1.40	1.03
1:A:428:GLN:NE2	1:A:455:PRO:HB2	1.73	1.03
1:A:451:ASP:CB	1:A:452:PRO:HD2	1.84	1.03
1:B:274:ILE:HG23	1:B:278:ILE:HD11	1.40	1.03
1:A:510:LEU:HD22	1:A:540:LEU:HD13	1.39	1.02
1:B:444:ARG:HH21	1:B:520:THR:HG23	1.20	1.02
1:A:310:LEU:H	1:A:310:LEU:HD12	1.21	1.02
1:B:457:GLN:HB2	1:B:476:ASN:ND2	1.75	1.02
1:A:513:LEU:HA	1:A:516:GLN:NE2	1.75	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:224:PHE:O	1:B:228:MET:HG2	1.61	1.01
1:B:573:THR:HG22	1:B:574:GLU:H	0.88	1.01
1:A:521:MET:HB3	1:A:522:PRO:HD3	1.39	1.01
1:B:790:ARG:HE	1:B:790:ARG:CA	1.70	1.00
1:A:506:LEU:HD23	1:A:544:VAL:HA	1.40	1.00
2:C:106:ARG:H	2:C:106:ARG:HD3	1.26	1.00
1:A:367:LEU:HD21	3:W:929:ALA:HA	1.44	0.99
1:B:573:THR:HG22	1:B:574:GLU:N	1.71	0.99
1:A:705:ILE:HA	1:A:823:THR:HG22	1.43	0.99
1:B:674:VAL:HG21	1:B:679:LEU:HD13	1.44	0.99
1:B:473:HIS:HB2	2:I:126:ARG:HH22	1.21	0.99
1:B:510:LEU:HD22	1:B:540:LEU:HD13	1.42	0.99
1:B:573:THR:CG2	1:B:574:GLU:H	1.71	0.99
2:L:42:ASN:HA	2:L:61:PHE:HB2	1.43	0.98
1:B:371:ASN:HD22	1:B:583:SER:HB3	1.28	0.98
1:B:204:THR:HG23	1:B:244:ILE:HG22	1.44	0.98
2:H:106:ARG:HD3	2:H:106:ARG:H	1.26	0.98
1:A:275:PRO:HB2	1:A:278:ILE:HD11	1.45	0.98
1:B:265:LEU:HB3	1:B:296:ALA:HB1	1.46	0.98
1:B:435:ILE:HG22	1:B:436:ILE:H	1.29	0.98
2:J:106:ARG:HD3	2:J:106:ARG:H	1.23	0.97
1:B:743:ASP:C	1:B:744:TYR:HD2	1.67	0.97
1:B:700:ALA:HB2	1:B:827:LYS:HB2	1.45	0.97
1:B:700:ALA:CB	1:B:827:LYS:HB2	1.95	0.97
1:A:540:LEU:O	1:A:544:VAL:HG23	1.64	0.97
1:A:270:ILE:HG23	1:A:854:LEU:HD21	1.46	0.96
3:W:441:VAL:HB	3:W:447:ILE:HD11	1.46	0.96
1:A:192:ASN:O	1:A:193:SER:HB3	1.65	0.96
1:B:200:VAL:HG21	1:B:243:SER:CB	1.96	0.96
2:H:83:ASN:HD21	2:I:122:LEU:HB2	1.30	0.96
1:A:660:ASP:HB3	1:B:539:ARG:HD2	1.43	0.96
1:A:588:ILE:HG22	1:A:589:GLY:H	1.28	0.96
1:B:717:MET:HE1	1:B:830:PRO:HD2	1.48	0.95
1:B:458:ILE:HD12	1:B:459:ALA:N	1.81	0.95
1:B:435:ILE:O	1:B:438:PRO:HD2	1.67	0.95
2:I:145:ARG:NH1	2:I:145:ARG:HB3	1.82	0.95
3:W:385:LEU:HD23	3:W:479:LYS:HE2	1.48	0.95
3:W:651:VAL:O	3:W:655:VAL:HG23	1.66	0.95
1:A:563:MET:HA	1:A:563:MET:CE	1.98	0.94
1:A:510:LEU:HD11	1:A:537:SER:HA	1.46	0.94
1:A:779:ASP:HA	1:A:798:ILE:CD1	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:446:HIS:O	1:B:447:TYR:HB2	1.68	0.93
2:O:27:VAL:O	2:O:31:ILE:HG12	1.66	0.93
1:B:764:PRO:O	1:B:765:PHE:HB3	1.65	0.93
1:B:518:PHE:HB3	1:B:519:PRO:HD2	1.49	0.93
1:B:790:ARG:HA	1:B:790:ARG:NE	1.84	0.92
1:A:428:GLN:HE21	1:A:455:PRO:HB2	1.30	0.92
2:G:145:ARG:HB3	2:G:145:ARG:NH1	1.84	0.92
1:B:126:PHE:H	1:B:126:PHE:HD2	1.09	0.92
3:W:8:LEU:HD12	3:W:737:MET:HG2	1.49	0.92
1:B:190:ASN:HD21	1:B:193:SER:HB3	1.31	0.92
1:B:722:ASN:HD22	1:B:824:LYS:HA	1.35	0.92
2:G:6:SER:OG	2:G:128:ASN:HA	1.70	0.92
1:A:779:ASP:HA	1:A:798:ILE:HD12	1.50	0.91
1:B:428:GLN:HB2	1:B:456:PHE:CD1	2.05	0.91
1:B:513:LEU:HA	1:B:516:GLN:NE2	1.85	0.91
1:B:803:ASN:H	1:B:807:ASN:HD21	1.17	0.91
1:A:661:GLN:HE21	1:B:348:LYS:NZ	1.67	0.91
1:B:166:PHE:HE2	1:B:689:MET:HA	1.34	0.91
1:B:454:THR:HG21	1:B:476:ASN:ND2	1.86	0.91
1:B:459:ALA:HB1	1:B:463:ILE:HD11	1.51	0.90
1:A:588:ILE:HG22	1:A:589:GLY:N	1.85	0.90
2:L:88:PHE:O	2:L:92:VAL:HG23	1.72	0.90
1:A:126:PHE:N	1:A:126:PHE:HD2	1.68	0.90
1:A:339:LEU:HD22	1:A:588:ILE:HA	1.53	0.90
2:L:106:ARG:H	2:L:106:ARG:HD3	1.37	0.90
2:N:145:ARG:O	2:N:146:GLN:HG3	1.71	0.90
2:C:88:PHE:O	2:C:92:VAL:HG23	1.72	0.89
1:B:509:ALA:O	1:B:513:LEU:HG	1.71	0.89
1:A:169:LEU:O	1:A:173:VAL:HG23	1.73	0.89
1:A:244:ILE:HD13	1:A:835:PHE:HE1	1.38	0.89
1:A:358:LEU:HD21	3:W:986:TYR:CE2	2.08	0.89
1:A:660:ASP:HB3	1:B:539:ARG:HH11	1.38	0.89
2:K:106:ARG:H	2:K:106:ARG:HD3	1.37	0.89
1:A:855:LEU:O	1:A:857:PHE:N	2.06	0.88
1:B:457:GLN:O	1:B:459:ALA:N	2.05	0.88
1:A:371:ASN:C	1:A:373:GLN:H	1.71	0.88
1:A:486:ASP:HB2	1:A:490:ASN:HD22	1.38	0.88
1:B:99:GLU:HB3	1:B:100:PRO:HD3	1.54	0.88
1:B:658:PRO:HB2	1:B:661:GLN:HG2	1.56	0.88
1:B:874:MET:O	1:B:875:ARG:HB2	1.73	0.88
2:M:88:PHE:O	2:M:92:VAL:HG23	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:194:ARG:HH11	1:A:229:ARG:HG2	1.39	0.88
2:J:106:ARG:HD3	2:J:106:ARG:N	1.87	0.88
1:B:803:ASN:H	1:B:807:ASN:ND2	1.72	0.87
3:W:438:ILE:HG22	3:W:468:GLU:HB3	1.55	0.87
1:B:182:LEU:HD11	1:B:847:THR:H	1.38	0.87
1:B:297:ARG:HG3	1:B:848:PHE:HD2	1.40	0.87
1:A:428:GLN:HB2	1:A:456:PHE:CD1	2.09	0.86
1:A:509:ALA:O	1:A:513:LEU:HG	1.75	0.86
1:B:447:TYR:O	1:B:448:ARG:HG2	1.73	0.86
2:D:88:PHE:O	2:D:92:VAL:HG23	1.73	0.86
2:O:88:PHE:O	2:O:92:VAL:HG23	1.72	0.86
2:I:76:ASN:H	2:M:76:ASN:HB2	1.37	0.86
3:W:98:LEU:HD11	3:W:172:ILE:HG23	1.56	0.86
1:B:451:ASP:H	1:B:452:PRO:HD3	1.39	0.86
1:B:513:LEU:HA	1:B:516:GLN:CD	1.95	0.86
3:W:499:GLN:HG3	3:W:1086:PHE:HB2	1.55	0.86
1:B:413:VAL:HG12	1:B:414:VAL:N	1.88	0.86
2:N:88:PHE:O	2:N:92:VAL:HG23	1.74	0.86
1:B:473:HIS:HB2	2:I:126:ARG:NH2	1.91	0.86
1:B:745:ALA:HB1	1:B:748:THR:HB	1.57	0.86
2:H:88:PHE:O	2:H:92:VAL:HG23	1.73	0.86
2:I:24:TYR:O	2:I:27:VAL:HG22	1.74	0.86
1:B:540:LEU:O	1:B:544:VAL:HG23	1.75	0.86
1:B:182:LEU:HD23	1:B:183:LEU:H	1.40	0.86
1:A:150:LEU:HD12	1:A:696:SER:HB2	1.58	0.86
1:A:275:PRO:HB2	1:A:278:ILE:CD1	2.04	0.86
2:E:88:PHE:O	2:E:92:VAL:HG23	1.75	0.86
2:J:88:PHE:O	2:J:92:VAL:HG23	1.75	0.85
1:A:451:ASP:HB3	1:A:452:PRO:CD	2.03	0.85
2:I:88:PHE:O	2:I:92:VAL:HG23	1.76	0.85
1:B:590:ASN:N	1:B:590:ASN:HD22	1.74	0.85
1:B:366:PHE:C	1:B:368:THR:H	1.76	0.85
3:W:605:LEU:HB2	3:W:628:VAL:HG11	1.57	0.85
2:C:150:PHE:HB2	2:C:152:PHE:CE1	2.11	0.85
1:A:366:PHE:C	1:A:368:THR:H	1.76	0.85
2:F:88:PHE:O	2:F:92:VAL:HG23	1.75	0.85
2:M:106:ARG:HD3	2:M:106:ARG:H	1.40	0.85
1:B:126:PHE:HD2	1:B:126:PHE:N	1.73	0.85
2:G:88:PHE:O	2:G:92:VAL:HG23	1.75	0.85
2:H:6:SER:OG	2:H:128:ASN:HA	1.77	0.85
2:M:6:SER:OG	2:M:128:ASN:HA	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:VAL:HG22	1:A:846:LEU:HG	1.58	0.84
1:B:723:ILE:HG22	1:B:724:ALA:H	1.40	0.84
3:W:248:MET:O	3:W:248:MET:HE3	1.77	0.84
1:B:306:ASP:O	1:B:308:LEU:N	2.10	0.84
1:B:518:PHE:HD2	2:H:69:THR:HB	1.40	0.84
2:K:88:PHE:O	2:K:92:VAL:HG23	1.76	0.84
1:A:660:ASP:HB3	1:B:539:ARG:CD	2.05	0.84
1:B:415:PRO:HG2	1:B:480:PHE:HD1	1.42	0.84
1:B:701:GLN:HB2	1:B:826:TYR:HD2	1.40	0.84
1:B:825:VAL:HG12	1:B:826:TYR:N	1.91	0.84
2:L:144:ARG:O	2:L:145:ARG:HB2	1.74	0.84
1:A:125:ILE:N	1:A:125:ILE:HD12	1.92	0.84
1:A:570:THR:HG22	1:A:571:LEU:H	1.42	0.84
1:B:200:VAL:CG2	1:B:243:SER:HB3	2.05	0.84
1:B:498:ARG:NH1	2:J:25:SER:HB3	1.92	0.84
1:B:735:LEU:HG	1:B:760:VAL:O	1.78	0.84
1:B:471:TRP:HB2	1:B:512:GLN:OE1	1.77	0.84
1:A:126:PHE:N	1:A:126:PHE:CD2	2.42	0.84
1:B:503:ILE:HD11	1:B:548:ARG:HG2	1.58	0.84
2:F:82:ARG:NH1	2:H:144:ARG:HD2	1.93	0.84
2:I:76:ASN:HB2	2:M:76:ASN:HB2	1.57	0.84
1:A:771:VAL:HG13	1:A:772:ILE:H	1.43	0.84
1:A:361:GLN:HB2	1:A:528:SER:OG	1.78	0.83
1:B:428:GLN:HG2	1:B:429:LEU:N	1.92	0.83
1:B:435:ILE:HG22	1:B:436:ILE:N	1.93	0.83
2:L:23:LEU:HD21	2:N:36:GLN:OE1	1.76	0.83
3:W:296:ARG:NH2	3:W:308:GLN:HE21	1.75	0.83
3:W:248:MET:HG2	3:W:326:TYR:CD2	2.13	0.83
3:W:520:ASP:HB2	3:W:667:LYS:HE3	1.59	0.83
1:A:158:GLY:H	1:A:762:ALA:HB3	1.43	0.83
1:B:454:THR:HG21	1:B:476:ASN:HD21	1.39	0.83
2:I:23:LEU:HD23	2:I:24:TYR:N	1.94	0.83
3:W:4:TYR:HD1	3:W:733:LEU:HD22	1.41	0.83
3:W:254:LEU:HB3	3:W:314:ARG:HD2	1.58	0.83
1:A:216:GLU:H	1:A:216:GLU:CD	1.81	0.83
1:A:474:PHE:O	1:A:478:ASN:HB2	1.77	0.83
1:B:126:PHE:N	1:B:126:PHE:CD2	2.43	0.83
1:B:457:GLN:HB2	1:B:476:ASN:CG	1.98	0.83
1:B:799:LEU:HD22	1:B:800:TYR:N	1.93	0.83
1:A:471:TRP:HB2	1:A:512:GLN:OE1	1.79	0.83
1:A:524:ASP:O	1:A:526:LYS:N	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:647:LYS:HG3	1:A:654:VAL:HG21	1.59	0.83
3:W:539:ILE:HG23	3:W:562:LYS:HG3	1.61	0.82
3:W:750:LEU:HD21	3:W:861:LEU:HD22	1.60	0.82
2:O:6:SER:OG	2:O:128:ASN:HA	1.80	0.82
2:I:38:ILE:HG22	2:I:42:ASN:HD21	1.42	0.82
1:B:516:GLN:HA	1:B:518:PHE:HE1	1.41	0.82
1:B:590:ASN:HD22	1:B:590:ASN:H	1.25	0.82
1:A:461:GLN:HA	2:F:32:GLN:HE22	1.43	0.82
1:B:428:GLN:HA	1:B:431:ILE:HD12	1.61	0.82
2:F:150:PHE:HB2	2:F:152:PHE:CE1	2.15	0.82
1:A:486:ASP:HB2	1:A:490:ASN:ND2	1.94	0.81
1:A:734:ASN:HB3	1:A:737:GLU:HG2	1.61	0.81
1:B:722:ASN:HB2	1:B:824:LYS:HB3	1.62	0.81
2:H:109:ILE:HG13	2:H:109:ILE:O	1.79	0.81
1:B:454:THR:CG2	1:B:476:ASN:HD21	1.92	0.81
1:A:406:SER:O	1:A:409:TRP:HB3	1.81	0.81
1:B:494:ASN:ND2	1:B:495:ASP:H	1.79	0.81
1:B:769:SER:HB3	1:B:807:ASN:OD1	1.80	0.81
2:L:22:THR:HB	2:N:128:ASN:O	1.79	0.81
3:W:367:ILE:O	3:W:371:VAL:HG23	1.80	0.81
1:A:712:LEU:HB3	1:A:721:VAL:O	1.79	0.81
1:B:218:GLU:HG3	1:B:221:VAL:HG23	1.62	0.81
1:B:193:SER:HB2	1:B:226:ALA:HA	1.62	0.81
1:B:725:ARG:H	1:B:725:ARG:HD2	1.44	0.81
1:B:498:ARG:HB2	2:I:32:GLN:NE2	1.94	0.81
1:B:511:MET:CE	2:J:70:LEU:HG	2.09	0.81
1:B:537:SER:O	1:B:540:LEU:HB3	1.81	0.81
2:H:76:ASN:HB2	2:J:76:ASN:HB2	1.60	0.81
1:A:459:ALA:O	1:A:462:GLN:HB2	1.81	0.81
1:B:118:LYS:HG2	1:B:119:GLN:H	1.46	0.81
2:I:76:ASN:CB	2:M:76:ASN:HB2	2.11	0.81
1:A:712:LEU:HG	1:A:819:PRO:HB2	1.61	0.81
1:B:315:GLU:HB3	1:B:571:LEU:HD11	1.61	0.80
2:D:128:ASN:O	2:E:22:THR:HB	1.82	0.80
2:E:24:TYR:O	2:E:27:VAL:HG22	1.82	0.80
2:O:67:GLY:O	2:O:69:THR:N	2.14	0.80
3:W:906:ASN:HD22	3:W:907:VAL:H	1.26	0.80
1:A:660:ASP:O	1:A:662:MET:N	2.14	0.80
1:B:510:LEU:CD1	1:B:537:SER:HA	2.11	0.80
1:A:362:SER:HB2	1:A:365:GLN:NE2	1.97	0.80
1:A:699:ILE:HG12	1:A:700:ALA:N	1.97	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:150:PHE:HB2	2:L:152:PHE:CE1	2.17	0.80
1:A:546:LEU:HD21	1:A:588:ILE:CD1	2.12	0.80
1:A:126:PHE:HD2	1:A:126:PHE:H	1.26	0.80
1:A:270:ILE:CD1	1:A:292:LEU:HD11	2.10	0.80
1:B:239:VAL:HG23	1:B:844:SER:O	1.81	0.80
1:A:370:ILE:HD11	3:W:933:LEU:O	1.81	0.80
1:A:769:SER:HB3	1:A:807:ASN:OD1	1.82	0.80
2:N:144:ARG:O	2:N:145:ARG:HB2	1.81	0.80
1:B:869:VAL:CG1	1:B:873:ASN:HA	2.11	0.80
3:W:78:SER:O	3:W:747:SER:HB2	1.81	0.80
1:A:437:TYR:N	1:A:438:PRO:HD2	1.97	0.79
1:B:393:SER:O	1:B:394:LEU:HD23	1.82	0.79
1:B:506:LEU:HD23	1:B:544:VAL:HA	1.62	0.79
1:B:743:ASP:CG	1:B:745:ALA:H	1.85	0.79
1:A:199:VAL:HG12	1:A:200:VAL:N	1.97	0.79
1:A:303:LEU:HA	1:A:615:ASN:ND2	1.97	0.79
1:A:694:ARG:HG2	1:A:701:GLN:HE22	1.46	0.79
1:B:790:ARG:HG3	1:B:791:LYS:H	1.48	0.79
2:L:104:SER:O	2:L:108:GLY:HA3	1.82	0.79
1:A:869:VAL:HG11	1:A:873:ASN:HA	1.64	0.79
2:I:57:ARG:HH11	2:I:94:ASN:HD21	1.31	0.79
1:B:744:TYR:N	1:B:744:TYR:CD2	2.38	0.79
1:A:721:VAL:HG12	1:A:722:ASN:N	1.98	0.79
2:K:6:SER:OG	2:K:128:ASN:HA	1.82	0.79
3:W:836:LYS:HA	3:W:839:LEU:HD12	1.64	0.79
1:A:370:ILE:HG13	3:W:933:LEU:CD1	2.13	0.79
1:B:457:GLN:HG3	1:B:458:ILE:N	1.98	0.79
1:B:465:ASN:HD22	1:B:468:VAL:HG23	1.47	0.79
1:A:480:PHE:CD2	1:A:493:LEU:HB3	2.18	0.79
1:A:606:VAL:HG23	1:A:607:ASN:H	1.46	0.79
1:B:673:PRO:O	1:B:674:VAL:HG13	1.83	0.79
2:H:2:ASP:HB2	2:H:128:ASN:HD21	1.46	0.79
3:W:1018:ILE:HD12	3:W:1037:ALA:HB1	1.65	0.79
1:B:124:ARG:C	1:B:125:ILE:HD12	2.02	0.79
2:N:50:GLY:O	2:N:51:ILE:HG23	1.83	0.79
1:A:869:VAL:CG1	1:A:873:ASN:HA	2.12	0.79
1:B:277:ARG:O	1:B:278:ILE:HG12	1.83	0.79
3:W:843:ALA:HB3	3:W:844:PRO:HD3	1.64	0.79
1:B:272:ASN:C	1:B:274:ILE:H	1.87	0.78
1:B:548:ARG:HH11	1:B:878:ASN:H	1.28	0.78
1:B:743:ASP:C	1:B:744:TYR:CD2	2.54	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:128:ASN:O	2:K:22:THR:HB	1.83	0.78
1:A:445:MET:C	1:A:447:TYR:H	1.84	0.78
1:B:75:VAL:HG22	3:W:673:VAL:HG12	0.83	0.78
2:M:145:ARG:O	2:M:146:GLN:HG3	1.83	0.78
3:W:296:ARG:HH22	3:W:308:GLN:HE21	1.29	0.78
1:A:305:GLN:O	1:A:307:ARG:HG3	1.82	0.78
1:A:428:GLN:HG2	1:A:429:LEU:N	1.98	0.78
1:B:523:VAL:C	1:B:525:TYR:H	1.85	0.78
1:A:118:LYS:HG2	1:A:119:GLN:N	1.98	0.78
1:A:480:PHE:HD2	1:A:493:LEU:HB3	1.49	0.78
1:B:549:LEU:HD13	1:B:877:MET:HE1	1.64	0.78
1:B:606:VAL:HG23	1:B:607:ASN:H	1.46	0.78
1:A:639:LYS:O	1:A:643:GLU:HG3	1.84	0.78
3:W:1001:TYR:HD1	3:W:1084:ASN:HB3	1.49	0.78
2:I:42:ASN:HA	2:I:61:PHE:HB2	1.66	0.78
1:B:702:GLY:HA3	1:B:759:LEU:O	1.84	0.77
1:B:717:MET:CE	1:B:830:PRO:HD2	2.15	0.77
2:N:144:ARG:NH2	2:N:146:GLN:HE22	1.81	0.77
3:W:212:GLU:HB2	3:W:696:LEU:HD12	1.65	0.77
1:B:374:ALA:HB1	1:B:580:SER:HB3	1.66	0.77
1:B:562:THR:HB	1:B:611:HIS:CD2	2.20	0.77
1:B:779:ASP:HA	1:B:798:ILE:CD1	2.14	0.77
3:W:186:ASN:H	3:W:186:ASN:HD22	1.32	0.77
1:B:406:SER:O	1:B:409:TRP:HB3	1.84	0.77
2:E:93:ASP:O	2:E:97:MET:HG3	1.84	0.77
2:H:106:ARG:H	2:H:106:ARG:CD	1.98	0.77
2:I:128:ASN:HD22	2:J:19:VAL:HB	1.49	0.77
2:K:93:ASP:O	2:K:97:MET:HG3	1.85	0.77
2:M:22:THR:HG23	2:M:73:LEU:HD12	1.66	0.77
1:B:764:PRO:O	1:B:765:PHE:CB	2.33	0.77
3:W:704:SER:HB2	3:W:709:GLN:HE22	1.47	0.77
1:A:471:TRP:O	1:A:475:VAL:HG23	1.85	0.77
1:B:169:LEU:O	1:B:173:VAL:HG23	1.84	0.77
1:B:855:LEU:O	1:B:857:PHE:N	2.17	0.77
1:B:204:THR:CG2	1:B:244:ILE:HG22	2.14	0.77
2:H:93:ASP:O	2:H:97:MET:HG3	1.85	0.77
1:A:371:ASN:C	1:A:373:GLN:N	2.37	0.76
1:B:166:PHE:CE2	1:B:689:MET:HA	2.20	0.76
1:B:218:GLU:HG3	1:B:221:VAL:CG2	2.15	0.76
1:B:503:ILE:O	1:B:505:GLN:HG2	1.85	0.76
1:B:573:THR:O	1:B:574:GLU:HG2	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:744:TYR:HD2	1:B:744:TYR:N	1.77	0.76
2:F:17:LYS:HG2	2:H:130:ASP:HA	1.67	0.76
3:W:217:VAL:HG13	3:W:222:ASP:HB2	1.66	0.76
1:A:405:ILE:HG21	1:A:536:LEU:HG	1.67	0.76
1:A:614:TYR:O	1:A:618:ILE:HG12	1.85	0.76
1:B:200:VAL:HG23	1:B:242:PRO:O	1.86	0.76
1:B:731:GLN:HG2	2:D:62:ASP:HB2	1.67	0.76
1:A:548:ARG:HH12	1:A:878:ASN:H	1.34	0.76
1:A:122:LEU:HG	1:A:201:ASP:OD2	1.84	0.76
1:A:461:GLN:HA	2:F:32:GLN:NE2	2.00	0.76
1:A:588:ILE:CG2	1:A:589:GLY:H	1.99	0.76
1:B:133:ILE:HD12	1:B:145:ARG:HB2	1.66	0.76
1:B:678:ARG:O	1:B:681:ILE:HG22	1.85	0.76
2:C:24:TYR:O	2:C:27:VAL:HG22	1.86	0.76
2:D:67:GLY:O	2:D:68:THR:HG23	1.85	0.76
2:I:110:ALA:HB1	2:I:111:PRO:CD	2.16	0.76
1:A:158:GLY:H	1:A:762:ALA:CB	1.99	0.76
1:A:678:ARG:O	1:A:681:ILE:HG22	1.86	0.76
1:B:199:VAL:HG12	1:B:200:VAL:N	2.00	0.76
1:B:701:GLN:HA	1:B:761:GLY:O	1.85	0.76
2:G:93:ASP:O	2:G:97:MET:HG3	1.85	0.76
1:A:503:ILE:HD13	1:A:547:THR:HB	1.68	0.76
1:B:675:GLU:HB3	1:B:678:ARG:HG2	1.68	0.76
1:A:244:ILE:HD13	1:A:835:PHE:CE1	2.21	0.76
1:A:428:GLN:HA	1:A:431:ILE:HD12	1.68	0.76
1:B:96:PRO:O	1:B:652:PHE:HB3	1.84	0.76
1:B:361:GLN:HE22	3:W:624:LYS:NZ	1.84	0.76
2:I:93:ASP:O	2:I:97:MET:HG3	1.86	0.76
1:A:310:LEU:H	1:A:310:LEU:CD1	1.97	0.75
1:B:518:PHE:CB	1:B:519:PRO:HD2	2.14	0.75
2:C:145:ARG:HB3	2:C:145:ARG:NH1	2.02	0.75
2:F:104:SER:HB3	2:F:108:GLY:CA	2.16	0.75
1:B:781:THR:O	1:B:783:PHE:N	2.19	0.75
1:A:371:ASN:HA	1:A:374:ALA:HB3	1.68	0.75
1:A:457:GLN:HB2	1:A:476:ASN:HD21	1.52	0.75
2:L:19:VAL:HG23	2:N:128:ASN:HB3	1.69	0.75
2:J:93:ASP:O	2:J:97:MET:HG3	1.87	0.75
1:B:251:ALA:HA	2:N:69:THR:HG21	1.69	0.75
1:B:498:ARG:CB	2:I:32:GLN:HE22	1.97	0.75
1:A:694:ARG:HG2	1:A:701:GLN:NE2	2.01	0.74
2:C:38:ILE:HG22	2:C:42:ASN:HD21	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:520:ASP:HB3	3:W:667:LYS:HB3	1.69	0.74
1:B:698:LYS:O	1:B:699:ILE:HB	1.86	0.74
2:I:76:ASN:HB2	2:M:76:ASN:CB	2.17	0.74
1:A:148:TRP:CZ3	1:A:246:HIS:HB2	2.22	0.74
1:A:537:SER:O	1:A:540:LEU:HB3	1.87	0.74
1:B:491:GLN:HG3	1:B:565:MET:H	1.50	0.74
2:J:128:ASN:HB3	2:K:19:VAL:HG23	1.69	0.74
2:N:57:ARG:HH11	2:N:94:ASN:HD21	1.33	0.74
3:W:708:ASP:HB3	3:W:1080:TYR:CE1	2.21	0.74
3:W:820:LEU:HB3	3:W:824:ASN:HD22	1.51	0.74
1:A:492:VAL:HG13	1:A:558:MET:SD	2.27	0.74
1:A:647:LYS:CG	1:A:654:VAL:HG21	2.17	0.74
1:B:482:GLN:HB2	1:B:493:LEU:HD22	1.70	0.74
1:B:675:GLU:HB3	1:B:678:ARG:CG	2.17	0.74
1:B:688:ASN:O	1:B:692:ILE:HD12	1.87	0.74
3:W:825:ASN:HA	3:W:828:SER:HB2	1.69	0.74
1:B:614:TYR:O	1:B:618:ILE:HG12	1.87	0.74
2:O:150:PHE:HB2	2:O:152:PHE:CE1	2.23	0.74
3:W:165:ARG:HD3	3:W:223:TYR:HB2	1.68	0.74
1:B:293:PRO:C	1:B:295:THR:H	1.90	0.74
2:D:23:LEU:HD23	2:D:24:TYR:N	2.03	0.74
2:D:93:ASP:O	2:D:97:MET:HG3	1.87	0.74
2:I:75:ALA:HB3	2:M:76:ASN:HA	1.68	0.74
2:L:93:ASP:O	2:L:97:MET:HG3	1.88	0.74
1:A:286:LEU:HD23	1:A:286:LEU:H	1.52	0.74
1:A:784:ALA:O	1:A:787:VAL:HG23	1.88	0.74
1:A:802:ILE:HA	1:A:807:ASN:HD21	1.52	0.74
1:B:190:ASN:ND2	1:B:193:SER:HB3	2.03	0.74
1:B:783:PHE:HD1	1:B:783:PHE:H	1.33	0.74
2:C:82:ARG:CZ	2:E:144:ARG:HD2	2.18	0.74
2:D:24:TYR:O	2:D:27:VAL:HG22	1.88	0.74
2:H:105:GLN:C	2:H:107:ASN:H	1.91	0.74
1:A:405:ILE:CG2	1:A:536:LEU:HG	2.18	0.74
1:A:428:GLN:HB2	1:A:456:PHE:HD1	1.51	0.74
2:E:54:LEU:HD12	2:E:55:PRO:HD2	1.70	0.74
1:A:164:GLU:O	1:A:167:LEU:HB3	1.87	0.74
1:A:252:PHE:HD2	1:A:684:LEU:HD21	1.52	0.74
1:A:301:PRO:O	1:A:303:LEU:HD23	1.87	0.74
1:B:510:LEU:HD11	1:B:537:SER:CA	2.15	0.74
2:D:6:SER:OG	2:D:128:ASN:HA	1.87	0.74
1:B:368:THR:HG22	1:B:371:ASN:HD21	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:433:ASN:ND2	1:B:446:HIS:HB3	2.02	0.73
2:J:150:PHE:HB2	2:J:152:PHE:CE1	2.22	0.73
3:W:473:GLN:OE1	3:W:595:GLN:HG2	1.88	0.73
1:A:117:LYS:O	1:A:179:ASP:HB2	1.88	0.73
1:A:275:PRO:CB	1:A:278:ILE:HD11	2.18	0.73
1:B:254:GLU:HG2	2:N:69:THR:HB	1.68	0.73
2:G:106:ARG:HD3	2:G:106:ARG:H	1.53	0.73
1:A:711:GLN:C	1:A:712:LEU:HD23	2.08	0.73
2:M:144:ARG:HD2	2:N:82:ARG:NH1	2.02	0.73
1:A:277:ARG:HD3	1:A:559:ALA:HB2	1.71	0.73
1:A:660:ASP:CB	1:B:539:ARG:HD2	2.19	0.73
1:B:257:LEU:O	1:B:260:GLN:HG3	1.88	0.73
2:C:93:ASP:O	2:C:97:MET:HG3	1.87	0.73
2:F:42:ASN:HA	2:F:61:PHE:HB2	1.70	0.73
2:H:109:ILE:HB	2:H:380:ASP:HB3	1.68	0.73
1:A:310:LEU:HD12	1:A:310:LEU:N	2.00	0.73
1:B:457:GLN:C	1:B:459:ALA:H	1.91	0.73
1:B:540:LEU:HD23	1:B:541:GLY:N	2.03	0.73
2:N:93:ASP:O	2:N:97:MET:HG3	1.87	0.73
3:W:708:ASP:O	3:W:712:ILE:HG13	1.88	0.73
1:A:499:ASN:HA	1:A:505:GLN:NE2	2.04	0.73
1:B:111:ILE:C	1:B:113:PRO:HD3	2.09	0.73
1:B:265:LEU:HB3	1:B:296:ALA:CB	2.17	0.73
2:I:145:ARG:HB3	2:I:145:ARG:HH11	1.50	0.73
2:N:24:TYR:O	2:N:27:VAL:HG22	1.89	0.73
1:A:245:LEU:HB3	1:A:249:ASP:HB2	1.71	0.73
1:A:286:LEU:HD23	1:A:286:LEU:N	2.04	0.73
1:B:703:VAL:HG13	1:B:824:LYS:O	1.89	0.73
2:F:93:ASP:O	2:F:97:MET:HG3	1.87	0.73
2:M:93:ASP:O	2:M:97:MET:HG3	1.88	0.73
3:W:906:ASN:HD22	3:W:907:VAL:N	1.85	0.73
1:A:631:LEU:HB3	1:A:633:LEU:HD13	1.69	0.73
1:A:661:GLN:HE21	1:B:348:LYS:HZ1	1.37	0.73
1:B:491:GLN:CD	1:B:564:ASN:HB3	2.08	0.73
1:B:503:ILE:O	1:B:505:GLN:N	2.22	0.73
1:B:674:VAL:HG23	1:B:679:LEU:HD22	1.69	0.73
1:B:770:SER:HB2	1:B:773:SER:OG	1.88	0.73
1:B:771:VAL:HB	1:B:809:PHE:CB	2.11	0.73
2:F:145:ARG:O	2:F:146:GLN:HG2	1.89	0.73
2:J:11:LEU:O	2:J:14:ALA:HB3	1.89	0.73
1:B:277:ARG:O	1:B:279:ARG:N	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:701:GLN:O	1:B:826:TYR:HB3	1.89	0.73
2:D:63:PHE:CD2	2:D:84:THR:HG23	2.24	0.73
2:F:23:LEU:HD21	2:H:36:GLN:OE1	1.89	0.73
2:H:27:VAL:O	2:H:31:ILE:HG12	1.88	0.73
1:B:436:ILE:HG13	1:B:437:TYR:H	1.54	0.72
1:B:471:TRP:O	1:B:475:VAL:HG23	1.88	0.72
2:H:106:ARG:HD3	2:H:106:ARG:N	2.03	0.72
1:A:643:GLU:HG2	1:A:662:MET:HE3	1.72	0.72
1:B:442:MET:CE	1:B:463:ILE:HG12	2.19	0.72
1:B:498:ARG:HH12	2:J:25:SER:HB3	1.52	0.72
1:B:521:MET:HB2	1:B:522:PRO:CD	2.19	0.72
1:B:712:LEU:CD1	1:B:722:ASN:HB3	2.18	0.72
3:W:394:LEU:HD21	3:W:424:VAL:HG11	1.69	0.72
3:W:473:GLN:HG2	3:W:561:TYR:CE1	2.23	0.72
1:A:510:LEU:CD1	1:A:537:SER:HA	2.20	0.72
1:A:370:ILE:HG13	3:W:933:LEU:HD12	1.71	0.72
1:B:435:ILE:C	1:B:436:ILE:HG12	2.08	0.72
1:B:492:VAL:HG11	1:B:558:MET:HG2	1.71	0.72
1:B:516:GLN:HA	1:B:518:PHE:CE1	2.25	0.72
1:B:630:ARG:O	1:B:631:LEU:HG	1.90	0.72
1:B:799:LEU:HD22	1:B:800:TYR:H	1.52	0.72
2:J:106:ARG:HG2	2:J:107:ASN:H	1.54	0.72
3:W:627:ARG:HG2	3:W:627:ARG:HH11	1.54	0.72
1:A:420:ILE:HG12	1:A:423:SER:HB2	1.69	0.72
1:A:496:ASN:HD22	1:A:498:ARG:HB2	1.53	0.72
1:A:629:ASN:O	1:A:631:LEU:N	2.17	0.72
1:B:615:ASN:O	1:B:618:ILE:HB	1.90	0.72
2:J:144:ARG:HD2	2:K:82:ARG:NH1	2.05	0.72
2:M:122:LEU:HB2	2:O:83:ASN:ND2	2.04	0.72
2:F:22:THR:HB	2:H:128:ASN:O	1.89	0.72
1:B:156:PRO:HB2	1:B:161:ASP:HB3	1.72	0.72
1:B:444:ARG:NH2	1:B:520:THR:HG23	2.03	0.72
3:W:370:GLU:O	3:W:374:MET:HG3	1.88	0.72
1:A:239:VAL:CG2	1:A:846:LEU:HG	2.19	0.72
1:A:613:ASN:HD22	1:A:649:LEU:CD2	2.03	0.72
1:A:605:ASN:O	1:A:608:VAL:HB	1.90	0.72
3:W:331:HIS:NE2	3:W:692:GLY:HA2	2.05	0.72
3:W:430:ASN:HB3	3:W:432:ARG:HG3	1.71	0.72
3:W:447:ILE:HD12	3:W:447:ILE:N	2.05	0.72
1:A:146:TRP:O	1:A:833:PHE:HB3	1.89	0.72
1:A:721:VAL:CG1	1:A:722:ASN:H	2.01	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:551:ALA:O	1:B:555:GLU:HB2	1.90	0.72
1:B:825:VAL:HG12	1:B:826:TYR:H	1.53	0.72
2:D:145:ARG:O	2:D:146:GLN:HG3	1.90	0.72
2:I:135:TYR:OH	2:I:340:GLU:OE1	2.06	0.72
1:A:445:MET:O	1:A:447:TYR:N	2.23	0.71
1:B:355:LEU:HG	1:B:356:GLU:N	2.05	0.71
1:B:473:HIS:HB3	2:I:126:ARG:HH12	1.54	0.71
2:D:11:LEU:O	2:D:14:ALA:HB3	1.90	0.71
3:W:101:ASP:O	3:W:104:VAL:HG23	1.90	0.71
1:A:735:LEU:HG	1:A:760:VAL:O	1.89	0.71
1:A:764:PRO:O	1:A:797:PRO:HD2	1.91	0.71
1:B:422:GLU:HA	1:B:425:VAL:HG23	1.72	0.71
1:B:442:MET:HE1	1:B:463:ILE:HG12	1.71	0.71
1:B:480:PHE:CE2	1:B:493:LEU:HB2	2.24	0.71
2:J:130:ASP:HA	2:K:17:LYS:HG2	1.71	0.71
2:O:93:ASP:O	2:O:97:MET:HG3	1.90	0.71
1:B:156:PRO:CB	1:B:161:ASP:HB3	2.20	0.71
2:C:144:ARG:HD2	2:D:82:ARG:CZ	2.20	0.71
2:L:6:SER:OG	2:L:128:ASN:HA	1.91	0.71
1:A:246:HIS:HB3	1:A:249:ASP:OD2	1.90	0.71
1:A:709:ASP:HB3	1:A:820:THR:HG23	1.73	0.71
1:B:194:ARG:O	1:B:196:ALA:N	2.23	0.71
1:B:428:GLN:OE1	1:B:456:PHE:HB2	1.90	0.71
2:I:11:LEU:O	2:I:14:ALA:HB3	1.91	0.71
2:I:150:PHE:HB2	2:I:152:PHE:CE1	2.25	0.71
3:W:22:VAL:HG22	3:W:77:TYR:HB3	1.72	0.71
3:W:293:ASP:HA	3:W:296:ARG:HD2	1.72	0.71
1:A:236:ARG:HB2	1:A:238:VAL:HG23	1.72	0.71
1:B:166:PHE:CE2	1:B:689:MET:HG3	2.24	0.71
1:B:791:LYS:O	1:B:792:VAL:HG22	1.91	0.71
2:K:11:LEU:O	2:K:14:ALA:HB3	1.91	0.71
1:A:530:GLN:HA	1:A:533:ILE:HD12	1.71	0.71
1:B:605:ASN:O	1:B:608:VAL:HB	1.91	0.71
2:K:38:ILE:HG22	2:K:42:ASN:HD21	1.56	0.71
1:A:194:ARG:NH1	1:A:229:ARG:HG2	2.05	0.71
2:N:11:LEU:O	2:N:14:ALA:HB3	1.91	0.71
2:N:38:ILE:HG22	2:N:42:ASN:HD21	1.56	0.71
1:B:277:ARG:HG2	1:B:278:ILE:H	1.54	0.71
2:H:116:LEU:HD12	2:H:119:LEU:HB2	1.73	0.71
2:O:11:LEU:O	2:O:14:ALA:HB3	1.90	0.71
1:A:283:ASN:O	1:A:863:VAL:HG23	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:36:GLN:OE1	2:H:23:LEU:HD21	1.91	0.71
1:A:496:ASN:ND2	1:A:498:ARG:HB2	2.06	0.71
1:A:510:LEU:HD11	1:A:537:SER:CA	2.21	0.71
1:B:548:ARG:HH12	1:B:878:ASN:H	1.35	0.71
1:B:712:LEU:HD12	1:B:722:ASN:HB3	1.72	0.71
2:G:4:LEU:HA	2:G:7:LEU:HD12	1.73	0.71
2:K:53:ASN:HD22	2:K:354:ALA:HB3	1.56	0.71
2:M:11:LEU:O	2:M:14:ALA:HB3	1.91	0.71
1:A:102:GLU:O	3:W:555:LEU:HD11	1.90	0.70
1:A:312:ASP:O	1:A:313:ASN:HB3	1.90	0.70
1:A:415:PRO:HG2	1:A:480:PHE:CD1	2.26	0.70
1:A:501:HIS:C	1:A:503:ILE:HG13	2.11	0.70
1:B:374:ALA:HB1	1:B:580:SER:HA	1.71	0.70
2:L:82:ARG:CZ	2:N:144:ARG:HD2	2.21	0.70
3:W:340:LEU:HD12	3:W:340:LEU:O	1.90	0.70
1:B:164:GLU:O	1:B:167:LEU:HB3	1.90	0.70
2:D:4:LEU:HA	2:D:7:LEU:HD12	1.73	0.70
2:M:150:PHE:HB2	2:M:152:PHE:CE1	2.26	0.70
1:A:615:ASN:O	1:A:618:ILE:HB	1.89	0.70
1:B:477:ASN:ND2	2:I:39:ILE:HG21	2.06	0.70
1:B:518:PHE:CD2	2:H:69:THR:HB	2.24	0.70
2:J:106:ARG:H	2:J:106:ARG:CD	2.03	0.70
2:J:109:ILE:HD12	2:J:109:ILE:O	1.91	0.70
1:B:259:HIS:CD2	1:B:677:ARG:HG3	2.25	0.70
1:B:511:MET:HE1	2:J:70:LEU:HG	1.72	0.70
2:C:11:LEU:O	2:C:14:ALA:HB3	1.90	0.70
2:J:12:LYS:C	2:J:14:ALA:H	1.94	0.70
2:K:54:LEU:HD12	2:K:55:PRO:HD2	1.71	0.70
2:N:4:LEU:HA	2:N:7:LEU:HD12	1.73	0.70
1:A:506:LEU:CD2	1:A:544:VAL:HA	2.18	0.70
1:A:551:ALA:O	1:A:555:GLU:HB2	1.92	0.70
1:B:230:GLN:HA	1:B:242:PRO:HD3	1.73	0.70
1:A:131:LEU:HD12	1:A:132:PRO:HD2	1.74	0.70
1:A:467:GLN:HB2	1:A:515:ARG:HD2	1.72	0.70
1:A:762:ALA:O	1:A:763:LEU:HG	1.92	0.70
1:B:508:GLU:HG2	1:B:512:GLN:NE2	2.07	0.70
1:B:790:ARG:HG3	1:B:791:LYS:N	2.05	0.70
2:J:116:LEU:HD12	2:J:119:LEU:HB2	1.74	0.70
2:N:167:ASN:HD22	2:N:178:GLY:HA2	1.57	0.70
1:A:783:PHE:HD1	1:A:783:PHE:H	1.38	0.70
2:C:167:ASN:HD22	2:C:178:GLY:HA2	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:153:HIS:NE2	2:E:153:HIS:NE2	2.39	0.70
2:G:167:ASN:HD22	2:G:178:GLY:HA2	1.57	0.70
1:A:482:GLN:OE1	1:A:493:LEU:HD22	1.90	0.70
1:A:560:CYS:HB2	1:A:603:TYR:HD2	1.57	0.70
1:B:262:VAL:CG1	1:B:297:ARG:HB3	2.21	0.70
1:B:786:ILE:HG13	1:B:787:VAL:H	1.56	0.70
2:I:12:LYS:C	2:I:14:ALA:H	1.95	0.70
2:K:167:ASN:HD22	2:K:178:GLY:HA2	1.57	0.70
2:O:154:LYS:N	2:O:155:PRO:CD	2.54	0.70
1:B:393:SER:N	1:B:573:THR:HG23	2.06	0.70
1:B:857:PHE:H	1:B:857:PHE:HD1	1.40	0.70
2:C:4:LEU:HA	2:C:7:LEU:HD12	1.74	0.70
2:J:38:ILE:HG22	2:J:42:ASN:HD21	1.56	0.70
2:J:167:ASN:HD22	2:J:178:GLY:HA2	1.57	0.70
2:O:167:ASN:HD22	2:O:178:GLY:HA2	1.57	0.70
1:A:396:PHE:HB3	1:A:578:LEU:CD1	2.22	0.70
1:A:401:TYR:HA	1:A:404:LEU:HD13	1.73	0.70
1:A:436:ILE:HD11	1:A:437:TYR:CD1	2.27	0.70
1:B:721:VAL:CG1	1:B:799:LEU:HD21	2.22	0.70
2:C:6:SER:OG	2:C:128:ASN:HA	1.92	0.70
2:E:38:ILE:HG22	2:E:42:ASN:HD21	1.57	0.70
3:W:999:ILE:HD11	3:W:1009:PHE:CD1	2.27	0.70
1:A:781:THR:O	1:A:783:PHE:N	2.24	0.69
1:B:318:TRP:CA	1:B:321:ILE:HD12	2.19	0.69
1:B:670:ARG:O	1:B:671:LEU:HD23	1.92	0.69
1:B:791:LYS:O	1:B:792:VAL:HG13	1.91	0.69
2:D:239:ASN:HD22	2:D:246:THR:HG22	1.57	0.69
2:O:4:LEU:HA	2:O:7:LEU:HD12	1.74	0.69
1:B:590:ASN:H	1:B:590:ASN:ND2	1.90	0.69
2:C:22:THR:OG1	2:C:26:ASN:ND2	2.25	0.69
2:F:104:SER:HB3	2:F:108:GLY:HA2	1.74	0.69
2:O:106:ARG:H	2:O:106:ARG:HD3	1.56	0.69
3:W:434:THR:HG21	3:W:437:ILE:HD12	1.74	0.69
1:A:437:TYR:H	1:A:438:PRO:HD2	1.56	0.69
1:A:548:ARG:HH11	1:A:877:MET:HA	1.56	0.69
1:B:182:LEU:HD11	1:B:847:THR:N	2.07	0.69
2:C:239:ASN:HD22	2:C:246:THR:HG22	1.58	0.69
2:D:150:PHE:HB2	2:D:152:PHE:CE1	2.27	0.69
2:K:150:PHE:HB2	2:K:152:PHE:CE1	2.27	0.69
2:L:11:LEU:O	2:L:14:ALA:HB3	1.93	0.69
2:L:239:ASN:HD22	2:L:246:THR:HG22	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:106:ARG:HD3	2:N:106:ARG:N	2.01	0.69
3:W:248:MET:HA	3:W:251:LEU:HD12	1.73	0.69
1:A:275:PRO:HB2	1:A:278:ILE:CG1	2.22	0.69
1:A:306:ASP:C	1:A:308:LEU:H	1.95	0.69
2:F:110:ALA:HB1	2:F:111:PRO:CD	2.22	0.69
2:H:12:LYS:C	2:H:14:ALA:H	1.95	0.69
2:I:109:ILE:HD12	2:I:109:ILE:O	1.90	0.69
2:I:167:ASN:HD22	2:I:178:GLY:HA2	1.57	0.69
2:J:22:THR:O	2:J:72:ASN:HA	1.92	0.69
3:W:840:ASN:HA	3:W:845:ILE:CG2	2.23	0.69
2:E:11:LEU:O	2:E:14:ALA:HB3	1.91	0.69
2:G:11:LEU:O	2:G:14:ALA:HB3	1.92	0.69
2:M:167:ASN:HD22	2:M:178:GLY:HA2	1.57	0.69
1:A:634:TYR:HB2	1:B:875:ARG:HH22	1.57	0.69
1:B:366:PHE:C	1:B:368:THR:N	2.46	0.69
1:B:374:ALA:HB1	1:B:580:SER:CB	2.23	0.69
2:E:5:TYR:CE2	2:E:131:ASN:HA	2.27	0.69
2:F:167:ASN:HD22	2:F:178:GLY:HA2	1.57	0.69
2:N:116:LEU:HD12	2:N:119:LEU:HB2	1.74	0.69
3:W:535:ARG:CZ	3:W:568:LEU:HD13	2.22	0.69
1:A:540:LEU:HD23	1:A:541:GLY:N	2.08	0.69
1:A:588:ILE:CG2	1:A:589:GLY:N	2.56	0.69
1:A:666:ARG:CG	1:A:667:ASP:N	2.55	0.69
1:A:803:ASN:HD22	1:A:805:ASP:HB3	1.58	0.69
1:B:772:ILE:HG23	1:B:773:SER:N	2.06	0.69
3:W:519:THR:HG22	3:W:520:ASP:N	2.08	0.69
1:A:322:THR:HG22	1:A:390:ARG:HB2	1.75	0.69
1:A:451:ASP:CB	1:A:452:PRO:CD	2.68	0.69
1:A:664:ARG:HD3	1:B:538:ASN:OD1	1.92	0.69
1:A:689:MET:HA	1:A:692:ILE:HD13	1.73	0.69
1:B:368:THR:HA	1:B:579:THR:HG23	1.75	0.69
1:B:563:MET:HA	1:B:563:MET:HE3	1.73	0.69
1:B:783:PHE:N	1:B:783:PHE:CD1	2.60	0.69
2:D:106:ARG:H	2:D:106:ARG:HD3	1.58	0.69
2:E:109:ILE:HB	2:E:380:ASP:HB3	1.74	0.69
2:E:150:PHE:HB2	2:E:152:PHE:CE1	2.27	0.69
1:A:118:LYS:HG2	1:A:119:GLN:H	1.57	0.69
1:A:546:LEU:HD21	1:A:588:ILE:HD13	1.73	0.69
1:A:757:VAL:HG12	1:A:758:ALA:H	1.57	0.69
1:B:118:LYS:HG2	1:B:119:GLN:N	2.08	0.69
1:B:594:ILE:C	1:B:594:ILE:HD12	2.13	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:752:LEU:C	1:B:754:ASN:H	1.95	0.69
1:B:812:VAL:HG13	1:B:813:ALA:H	1.57	0.69
2:E:116:LEU:HD12	2:E:119:LEU:HB2	1.73	0.69
2:F:11:LEU:O	2:F:14:ALA:HB3	1.93	0.69
2:G:12:LYS:C	2:G:14:ALA:H	1.96	0.69
1:A:100:PRO:HB2	3:W:558:LEU:HD11	1.75	0.69
1:B:364:THR:CG2	3:W:622:ALA:HA	2.22	0.69
1:B:457:GLN:CG	1:B:458:ILE:H	1.89	0.69
1:B:633:LEU:O	1:B:633:LEU:HD23	1.92	0.69
2:H:239:ASN:HD22	2:H:246:THR:HG22	1.58	0.69
2:I:6:SER:OG	2:I:128:ASN:HA	1.92	0.69
2:K:106:ARG:HG2	2:K:107:ASN:H	1.56	0.69
2:K:144:ARG:O	2:K:145:ARG:HB2	1.92	0.69
2:L:167:ASN:HD22	2:L:178:GLY:HA2	1.57	0.69
2:M:12:LYS:C	2:M:14:ALA:H	1.96	0.69
2:M:116:LEU:HD12	2:M:119:LEU:HB2	1.75	0.69
2:O:109:ILE:HD12	2:O:109:ILE:O	1.92	0.69
3:W:105:ASN:ND2	3:W:111:ASN:HA	2.08	0.69
3:W:147:PHE:HE1	3:W:151:LYS:HE3	1.58	0.69
3:W:535:ARG:NH2	3:W:568:LEU:HD13	2.07	0.69
1:A:306:ASP:O	1:A:308:LEU:N	2.25	0.68
1:A:570:THR:HG22	1:A:571:LEU:N	2.07	0.68
1:A:658:PRO:HG3	1:B:345:GLN:HA	1.75	0.68
1:B:166:PHE:O	1:B:169:LEU:HB2	1.93	0.68
1:B:805:ASP:O	1:B:807:ASN:N	2.26	0.68
2:E:12:LYS:C	2:E:14:ALA:H	1.96	0.68
1:A:366:PHE:N	1:A:366:PHE:CD1	2.60	0.68
1:A:661:GLN:NE2	1:B:348:LYS:NZ	2.39	0.68
1:A:807:ASN:O	1:A:809:PHE:N	2.26	0.68
1:B:264:PRO:O	1:B:265:LEU:HB2	1.92	0.68
2:F:6:SER:OG	2:F:128:ASN:HA	1.92	0.68
2:H:106:ARG:O	2:H:107:ASN:HB2	1.93	0.68
2:J:4:LEU:HA	2:J:7:LEU:HD12	1.75	0.68
2:L:116:LEU:HD12	2:L:119:LEU:HB2	1.75	0.68
2:D:12:LYS:C	2:D:14:ALA:H	1.95	0.68
2:E:167:ASN:HD22	2:E:178:GLY:HA2	1.57	0.68
2:F:4:LEU:HA	2:F:7:LEU:HD12	1.75	0.68
2:L:110:ALA:HB1	2:L:111:PRO:CD	2.23	0.68
2:N:12:LYS:C	2:N:14:ALA:H	1.94	0.68
1:B:548:ARG:NH1	1:B:878:ASN:N	2.35	0.68
2:C:116:LEU:HD12	2:C:119:LEU:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:116:LEU:HD12	2:D:119:LEU:HB2	1.75	0.68
2:F:116:LEU:HD12	2:F:119:LEU:HB2	1.75	0.68
2:F:153:HIS:NE2	2:H:153:HIS:NE2	2.41	0.68
2:H:11:LEU:O	2:H:14:ALA:HB3	1.93	0.68
2:N:239:ASN:HD22	2:N:246:THR:HG22	1.58	0.68
1:A:318:TRP:CA	1:A:321:ILE:HD12	2.19	0.68
2:I:116:LEU:HD12	2:I:119:LEU:HB2	1.75	0.68
1:B:180:TYR:HD1	1:B:181:LEU:N	1.91	0.68
2:I:239:ASN:HD22	2:I:246:THR:HG22	1.59	0.68
2:M:153:HIS:NE2	2:N:153:HIS:NE2	2.40	0.68
3:W:186:ASN:HD21	3:W:190:ARG:H	1.39	0.68
1:A:396:PHE:HB3	1:A:578:LEU:HD12	1.76	0.68
1:A:660:ASP:CB	1:B:539:ARG:HH11	2.04	0.68
1:B:431:ILE:HA	1:B:435:ILE:HD12	1.76	0.68
1:B:545:ASP:HB3	1:B:877:MET:SD	2.34	0.68
1:B:855:LEU:O	1:B:858:VAL:HG23	1.94	0.68
2:M:4:LEU:HA	2:M:7:LEU:HD12	1.75	0.68
3:W:691:ALA:HB2	3:W:723:ARG:HB3	1.75	0.68
1:A:659:ASP:O	1:A:662:MET:HB2	1.94	0.68
2:H:4:LEU:HA	2:H:7:LEU:HD12	1.76	0.68
2:I:4:LEU:HA	2:I:7:LEU:HD12	1.74	0.68
2:N:65:LEU:O	2:N:66:LEU:HD23	1.94	0.68
3:W:324:LYS:HG2	3:W:328:TRP:CD1	2.29	0.68
1:B:498:ARG:HB3	1:B:505:GLN:HE22	1.59	0.68
1:B:869:VAL:HG11	1:B:873:ASN:HA	1.74	0.68
2:H:167:ASN:HD22	2:H:178:GLY:HA2	1.57	0.68
2:I:135:TYR:CZ	2:I:342:MET:HE3	2.28	0.68
2:J:239:ASN:HD22	2:J:246:THR:HG22	1.58	0.68
2:O:12:LYS:C	2:O:14:ALA:H	1.96	0.68
1:A:101:LYS:HZ2	3:W:382:ASP:N	1.92	0.68
1:A:136:ALA:O	1:A:137:ASN:HB3	1.94	0.68
1:A:587:LEU:HD13	1:A:587:LEU:O	1.94	0.68
1:B:143:ARG:HG3	1:B:216:GLU:OE2	1.92	0.68
1:B:246:HIS:CD2	1:B:248:ILE:H	2.11	0.68
1:B:492:VAL:HG11	1:B:558:MET:CG	2.22	0.68
1:B:530:GLN:HA	1:B:533:ILE:HD12	1.76	0.68
2:D:167:ASN:HD22	2:D:178:GLY:HA2	1.57	0.68
2:K:12:LYS:C	2:K:14:ALA:H	1.96	0.68
2:M:239:ASN:HD22	2:M:246:THR:HG22	1.59	0.68
1:A:589:GLY:O	1:A:591:ALA:N	2.26	0.67
1:B:499:ASN:O	1:B:500:GLY:C	2.33	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:76:ASN:HB2	2:J:76:ASN:CB	2.23	0.67
2:I:9:LYS:O	2:I:13:ASP:HB2	1.94	0.67
3:W:686:LYS:HB2	3:W:688:PHE:HE2	1.58	0.67
1:A:188:VAL:O	1:A:198:LYS:HA	1.93	0.67
1:B:125:ILE:HD12	1:B:125:ILE:N	2.10	0.67
1:B:258:GLN:HB3	2:N:71:LEU:HB2	1.76	0.67
1:B:721:VAL:HG12	1:B:722:ASN:N	2.08	0.67
2:C:12:LYS:C	2:C:14:ALA:H	1.96	0.67
2:D:144:ARG:O	2:D:145:ARG:HB2	1.94	0.67
2:F:12:LYS:C	2:F:14:ALA:H	1.96	0.67
2:G:239:ASN:HD22	2:G:246:THR:HG22	1.58	0.67
2:K:117:ARG:HH21	2:M:57:ARG:NH1	1.90	0.67
3:W:438:ILE:HD11	3:W:563:GLN:HB3	1.75	0.67
1:A:270:ILE:HG23	1:A:854:LEU:CD2	2.22	0.67
3:W:217:VAL:HG13	3:W:222:ASP:CB	2.25	0.67
1:A:306:ASP:HB3	1:A:310:LEU:CD1	2.24	0.67
1:B:605:ASN:HD21	1:B:855:LEU:HD12	1.58	0.67
1:B:745:ALA:O	1:B:748:THR:N	2.28	0.67
2:D:38:ILE:HD12	2:D:65:LEU:HD23	1.75	0.67
2:E:4:LEU:HA	2:E:7:LEU:HD12	1.75	0.67
2:F:19:VAL:HG23	2:H:128:ASN:HB3	1.77	0.67
2:H:76:ASN:H	2:J:76:ASN:HB2	1.60	0.67
2:I:104:SER:O	2:I:108:GLY:HA3	1.94	0.67
2:K:116:LEU:HD12	2:K:119:LEU:HB2	1.76	0.67
2:L:4:LEU:HA	2:L:7:LEU:HD12	1.75	0.67
2:N:73:LEU:N	2:N:73:LEU:HD23	2.09	0.67
1:A:136:ALA:O	1:A:137:ASN:CB	2.43	0.67
1:A:310:LEU:O	1:A:318:TRP:HD1	1.76	0.67
1:B:183:LEU:HD12	1:B:844:SER:HB3	1.77	0.67
2:I:63:PHE:CD2	2:I:84:THR:HG23	2.28	0.67
2:O:239:ASN:HD22	2:O:246:THR:HG22	1.58	0.67
1:A:571:LEU:O	1:A:571:LEU:HD13	1.94	0.67
1:B:869:VAL:HG22	1:B:875:ARG:HA	1.76	0.67
2:F:239:ASN:HD22	2:F:246:THR:HG22	1.58	0.67
2:K:239:ASN:HD22	2:K:246:THR:HG22	1.58	0.67
1:B:361:GLN:HE22	3:W:624:LYS:HZ1	1.42	0.67
1:B:666:ARG:CG	1:B:667:ASP:N	2.57	0.67
1:B:782:VAL:HG11	1:B:796:LYS:O	1.94	0.67
2:O:9:LYS:O	2:O:13:ASP:HB2	1.95	0.67
1:B:108:LEU:HD22	1:B:108:LEU:N	2.10	0.67
1:B:154:THR:O	1:B:155:LEU:HD23	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:76:ASN:N	2:M:76:ASN:HB2	2.09	0.67
2:K:4:LEU:HA	2:K:7:LEU:HD12	1.75	0.67
1:A:219:GLY:O	1:A:221:VAL:N	2.28	0.67
1:A:223:ARG:O	1:A:226:ALA:HB3	1.95	0.67
1:A:367:LEU:CD2	3:W:929:ALA:HA	2.22	0.67
1:A:839:MET:HG2	1:A:840:HIS:H	1.60	0.67
1:B:371:ASN:ND2	1:B:583:SER:HB3	2.06	0.67
2:G:116:LEU:HD12	2:G:119:LEU:HB2	1.76	0.67
2:K:9:LYS:O	2:K:13:ASP:HB2	1.95	0.67
1:A:503:ILE:C	1:A:505:GLN:H	1.98	0.67
1:A:521:MET:HB3	1:A:522:PRO:CD	2.22	0.67
1:A:650:HIS:O	1:A:651:ILE:HB	1.94	0.67
1:B:200:VAL:HG12	1:B:201:ASP:N	2.08	0.67
1:B:700:ALA:HB1	1:B:827:LYS:HB2	1.75	0.67
1:B:771:VAL:HG12	1:B:772:ILE:N	2.09	0.67
3:W:778:THR:O	3:W:782:VAL:HG22	1.93	0.67
1:A:252:PHE:CD2	1:A:684:LEU:HD21	2.30	0.66
1:B:523:VAL:C	1:B:525:TYR:N	2.47	0.66
2:O:116:LEU:HD12	2:O:119:LEU:HB2	1.76	0.66
1:A:524:ASP:OD1	1:A:525:TYR:N	2.27	0.66
1:B:229:ARG:HD2	1:B:230:GLN:HE22	1.60	0.66
1:B:672:LEU:HB3	1:B:673:PRO:HD2	1.77	0.66
2:D:99:GLU:OE1	2:D:116:LEU:HD22	1.94	0.66
2:D:99:GLU:O	2:D:99:GLU:HG2	1.94	0.66
2:O:49:GLY:HA2	2:O:54:LEU:HD23	1.77	0.66
1:A:563:MET:HE3	1:A:563:MET:CA	2.14	0.66
1:B:825:VAL:CG1	1:B:826:TYR:N	2.57	0.66
2:E:239:ASN:HD22	2:E:246:THR:HG22	1.59	0.66
3:W:1006:LEU:HG	3:W:1086:PHE:HE1	1.60	0.66
1:A:246:HIS:CD2	1:A:248:ILE:H	2.14	0.66
1:A:508:GLU:HG2	1:A:512:GLN:NE2	2.10	0.66
1:B:724:ALA:HB2	1:B:824:LYS:HE3	1.77	0.66
2:C:153:HIS:NE2	2:E:153:HIS:NE2	2.43	0.66
2:E:14:ALA:O	2:E:18:ILE:HD12	1.95	0.66
1:A:701:GLN:HG2	1:A:826:TYR:CD2	2.31	0.66
1:B:374:ALA:HB1	1:B:580:SER:CA	2.25	0.66
2:L:153:HIS:NE2	2:M:153:HIS:NE2	2.44	0.66
3:W:296:ARG:NH2	3:W:308:GLN:NE2	2.43	0.66
3:W:440:PRO:HA	3:W:567:ASN:HD22	1.61	0.66
3:W:967:ILE:H	3:W:967:ILE:HD12	1.59	0.66
1:A:454:THR:HB	1:A:457:GLN:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:513:LEU:O	1:A:516:GLN:OE1	2.14	0.66
1:A:653:ASP:HB3	1:A:656:ARG:HB2	1.77	0.66
1:B:396:PHE:HB2	1:B:578:LEU:HD11	1.77	0.66
2:E:23:LEU:HD23	2:E:24:TYR:N	2.11	0.66
2:N:9:LYS:O	2:N:13:ASP:HB2	1.96	0.66
2:N:150:PHE:HB2	2:N:152:PHE:CE1	2.30	0.66
1:A:277:ARG:HD3	1:A:559:ALA:CB	2.25	0.66
1:B:594:ILE:HB	1:B:595:PRO:CD	2.26	0.66
1:B:825:VAL:CG1	1:B:826:TYR:H	2.08	0.66
1:A:729:GLY:C	1:A:730:PHE:HD1	1.98	0.66
1:B:349:MET:O	1:B:353:LEU:HB2	1.94	0.66
2:C:2:ASP:HB2	2:C:128:ASN:HD21	1.60	0.66
2:J:5:TYR:CE2	2:J:131:ASN:HA	2.31	0.66
2:L:12:LYS:C	2:L:14:ALA:H	1.96	0.66
2:M:9:LYS:O	2:M:13:ASP:HB2	1.96	0.66
2:N:4:LEU:HA	2:N:7:LEU:CD1	2.26	0.66
1:A:521:MET:HA	1:A:521:MET:CE	2.26	0.66
1:B:140:LYS:O	1:B:142:LEU:N	2.29	0.66
1:B:445:MET:O	1:B:447:TYR:N	2.23	0.66
1:B:504:ASN:O	1:B:507:MET:N	2.29	0.66
2:C:22:THR:HG23	2:C:73:LEU:HD12	1.78	0.66
2:G:145:ARG:HH11	2:G:145:ARG:CB	2.00	0.66
2:I:110:ALA:HB1	2:I:111:PRO:HD2	1.77	0.66
1:B:170:TYR:HE1	1:B:681:ILE:HG23	1.60	0.66
1:B:194:ARG:NE	1:B:194:ARG:HA	2.11	0.66
2:O:4:LEU:HA	2:O:7:LEU:CD1	2.26	0.66
1:A:166:PHE:O	1:A:169:LEU:HB2	1.96	0.65
2:C:150:PHE:HB2	2:C:152:PHE:HE1	1.61	0.65
2:D:9:LYS:O	2:D:13:ASP:HB2	1.94	0.65
2:F:26:ASN:OD1	2:H:33:GLN:HB2	1.97	0.65
2:I:109:ILE:HB	2:I:380:ASP:HB3	1.79	0.65
2:N:150:PHE:HB2	2:N:152:PHE:HE1	1.61	0.65
1:A:603:TYR:O	1:A:606:VAL:HG22	1.96	0.65
2:C:4:LEU:HA	2:C:7:LEU:CD1	2.27	0.65
2:C:54:LEU:HD12	2:C:55:PRO:HD2	1.77	0.65
2:G:128:ASN:O	2:H:22:THR:HB	1.95	0.65
3:W:394:LEU:HD22	3:W:815:LEU:HD21	1.77	0.65
1:A:508:GLU:C	1:A:512:GLN:HE21	2.00	0.65
1:A:755:GLN:O	1:A:757:VAL:HG23	1.96	0.65
1:A:849:THR:HB	1:A:851:TYR:HE1	1.61	0.65
1:B:322:THR:HB	1:B:390:ARG:HH11	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:396:PHE:HE1	1:B:398:THR:HA	1.60	0.65
1:B:642:VAL:O	1:B:646:LEU:HG	1.96	0.65
2:D:109:ILE:HB	2:D:380:ASP:HB3	1.78	0.65
2:G:9:LYS:O	2:G:13:ASP:HB2	1.96	0.65
2:J:12:LYS:HG2	2:J:16:ASP:OD2	1.95	0.65
2:K:46:PHE:HE2	2:K:119:LEU:HD21	1.62	0.65
2:M:144:ARG:HD2	2:N:82:ARG:CZ	2.27	0.65
2:C:9:LYS:O	2:C:13:ASP:HB2	1.96	0.65
3:W:135:LEU:HD13	3:W:709:GLN:OE1	1.96	0.65
1:A:711:GLN:O	1:A:712:LEU:HD23	1.96	0.65
1:A:871:PHE:O	1:A:871:PHE:HD1	1.80	0.65
1:B:708:ARG:O	1:B:709:ASP:C	2.35	0.65
1:A:501:HIS:O	1:A:503:ILE:HG13	1.97	0.65
2:D:22:THR:O	2:D:72:ASN:HA	1.95	0.65
2:G:4:LEU:HA	2:G:7:LEU:CD1	2.26	0.65
2:I:150:PHE:HB2	2:I:152:PHE:CZ	2.32	0.65
1:A:516:GLN:OE1	1:A:516:GLN:N	2.28	0.65
1:A:622:VAL:HG11	1:A:673:PRO:O	1.97	0.65
1:A:642:VAL:O	1:A:646:LEU:HG	1.96	0.65
1:B:805:ASP:C	1:B:807:ASN:H	1.99	0.65
2:H:9:LYS:O	2:H:13:ASP:HB2	1.97	0.65
2:I:130:ASP:HA	2:J:17:LYS:HG2	1.78	0.65
2:I:153:HIS:NE2	2:K:153:HIS:NE2	2.45	0.65
3:W:704:SER:HB2	3:W:709:GLN:NE2	2.12	0.65
1:A:142:LEU:O	1:A:144:ASN:N	2.28	0.65
1:A:589:GLY:C	1:A:591:ALA:H	1.99	0.65
1:A:658:PRO:CG	1:B:348:LYS:HG2	2.23	0.65
1:A:782:VAL:O	1:A:785:GLN:HG2	1.97	0.65
1:B:170:TYR:CE1	1:B:681:ILE:HG23	2.31	0.65
1:B:401:TYR:HA	1:B:404:LEU:HD13	1.79	0.65
1:A:779:ASP:CA	1:A:798:ILE:HD12	2.26	0.65
1:B:236:ARG:O	1:B:237:ASN:HB2	1.97	0.65
1:B:315:GLU:CB	1:B:571:LEU:HD11	2.25	0.65
3:W:207:ALA:O	3:W:211:ILE:HG13	1.96	0.65
1:A:271:PHE:HA	1:A:274:ILE:HD12	1.79	0.65
1:B:96:PRO:HG2	1:B:657:VAL:HG22	1.79	0.65
1:B:298:TYR:HD1	1:B:299:ILE:N	1.94	0.65
2:N:12:LYS:HG2	2:N:16:ASP:OD2	1.96	0.65
1:B:378:CYS:HB2	1:B:580:SER:HB2	1.79	0.64
2:E:9:LYS:O	2:E:13:ASP:HB2	1.97	0.64
2:F:9:LYS:O	2:F:13:ASP:HB2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:4:LEU:HA	2:I:7:LEU:CD1	2.27	0.64
2:J:57:ARG:HH11	2:J:94:ASN:HD21	1.46	0.64
1:A:793:ASP:C	1:A:795:LEU:H	2.00	0.64
1:B:314:PHE:CZ	1:B:664:ARG:HG2	2.32	0.64
1:B:603:TYR:O	1:B:606:VAL:HG22	1.97	0.64
2:D:4:LEU:HA	2:D:7:LEU:CD1	2.27	0.64
2:D:106:ARG:HG2	2:D:107:ASN:H	1.62	0.64
2:L:9:LYS:O	2:L:13:ASP:HB2	1.96	0.64
1:A:802:ILE:HA	1:A:807:ASN:ND2	2.12	0.64
2:O:104:SER:HB3	2:O:108:GLY:HA2	1.79	0.64
3:W:191:TYR:CE2	3:W:204:VAL:HG11	2.31	0.64
3:W:777:THR:HG21	3:W:882:LYS:NZ	2.11	0.64
1:A:714:ARG:HA	1:A:720:TYR:HB3	1.78	0.64
1:A:863:VAL:HG12	1:A:864:GLU:H	1.61	0.64
2:D:110:ALA:HB1	2:D:111:PRO:CD	2.28	0.64
2:L:27:VAL:O	2:L:31:ILE:HG12	1.97	0.64
1:A:414:VAL:HB	1:A:419:PHE:HE1	1.62	0.64
1:A:834:ASP:O	1:A:838:SER:HB2	1.97	0.64
1:B:182:LEU:CD2	1:B:183:LEU:H	2.08	0.64
1:B:457:GLN:CG	1:B:458:ILE:N	2.53	0.64
1:B:491:GLN:NE2	1:B:566:GLN:HG2	2.12	0.64
1:B:606:VAL:HG23	1:B:607:ASN:N	2.11	0.64
2:J:144:ARG:NH2	2:J:146:GLN:HE22	1.96	0.64
1:A:246:HIS:O	1:A:249:ASP:N	2.31	0.64
1:A:548:ARG:HB3	1:A:876:ILE:HG23	1.78	0.64
1:B:645:PHE:HD2	1:B:646:LEU:HD23	1.62	0.64
1:B:718:TYR:HB3	1:B:721:VAL:CG2	2.18	0.64
2:F:109:ILE:HB	2:F:380:ASP:HB3	1.79	0.64
2:J:4:LEU:HA	2:J:7:LEU:CD1	2.28	0.64
2:J:9:LYS:O	2:J:13:ASP:HB2	1.98	0.64
2:K:12:LYS:HG2	2:K:16:ASP:OD2	1.97	0.64
2:M:139:TRP:NE1	2:M:143:ASN:ND2	2.46	0.64
3:W:532:GLN:HB2	3:W:533:PRO:HD3	1.78	0.64
3:W:906:ASN:ND2	3:W:907:VAL:N	2.44	0.64
1:A:246:HIS:HD2	1:A:248:ILE:HB	1.63	0.64
1:A:378:CYS:SG	1:A:584:LEU:HD13	2.38	0.64
1:B:703:VAL:HG22	1:B:825:VAL:HG22	1.78	0.64
2:F:38:ILE:HG22	2:F:42:ASN:HD21	1.62	0.64
2:M:42:ASN:HA	2:M:61:PHE:HB3	1.80	0.64
2:N:128:ASN:O	2:N:129:PHE:HB3	1.98	0.64
1:A:606:VAL:HG23	1:A:607:ASN:N	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:182:LEU:HD11	1:B:847:THR:HA	1.78	0.64
1:B:389:GLN:HA	1:B:389:GLN:OE1	1.98	0.64
1:B:492:VAL:HG13	1:B:565:MET:SD	2.38	0.64
1:B:721:VAL:HG12	1:B:722:ASN:H	1.63	0.64
2:M:12:LYS:HG2	2:M:16:ASP:OD2	1.98	0.64
3:W:890:ALA:HB2	3:W:1053:SER:HB2	1.79	0.64
1:A:360:ILE:HG23	1:A:363:GLU:HB2	1.78	0.64
2:D:54:LEU:HD12	2:D:55:PRO:HD2	1.79	0.64
2:G:106:ARG:HG2	2:G:107:ASN:H	1.62	0.64
2:D:12:LYS:HG2	2:D:16:ASP:OD2	1.98	0.64
2:E:4:LEU:HA	2:E:7:LEU:CD1	2.28	0.64
2:H:57:ARG:HH11	2:H:94:ASN:HD21	1.44	0.64
2:K:4:LEU:HA	2:K:7:LEU:CD1	2.28	0.64
2:O:14:ALA:O	2:O:18:ILE:HD12	1.97	0.64
3:W:387:ARG:HB3	3:W:387:ARG:HH11	1.63	0.64
3:W:509:PHE:CD2	3:W:624:LYS:HB3	2.32	0.64
1:A:158:GLY:N	1:A:762:ALA:HB3	2.13	0.63
1:A:371:ASN:HB3	1:A:583:SER:HB2	1.80	0.63
1:B:491:GLN:HE22	1:B:566:GLN:HG2	1.63	0.63
1:B:498:ARG:CB	1:B:505:GLN:HE22	2.10	0.63
2:I:19:VAL:CG2	2:K:128:ASN:HB3	2.27	0.63
2:J:110:ALA:HB1	2:J:111:PRO:CD	2.28	0.63
2:L:12:LYS:HG2	2:L:16:ASP:OD2	1.98	0.63
2:M:27:VAL:O	2:M:31:ILE:HG12	1.97	0.63
3:W:741:SER:HB3	3:W:751:PHE:CD1	2.33	0.63
1:A:772:ILE:O	1:A:775:ILE:HG13	1.98	0.63
1:B:346:ILE:O	1:B:349:MET:HB3	1.97	0.63
1:B:442:MET:HG2	1:B:443:GLN:H	1.63	0.63
1:B:645:PHE:CD2	1:B:646:LEU:HD23	2.33	0.63
2:F:4:LEU:HA	2:F:7:LEU:CD1	2.29	0.63
2:J:71:LEU:HG	2:J:72:ASN:OD1	1.98	0.63
2:M:4:LEU:HA	2:M:7:LEU:CD1	2.28	0.63
1:A:491:GLN:OE1	1:A:564:ASN:HB3	1.99	0.63
1:B:396:PHE:CE1	1:B:398:THR:HA	2.33	0.63
1:B:730:PHE:N	1:B:730:PHE:CD1	2.67	0.63
1:B:772:ILE:O	1:B:775:ILE:HB	1.98	0.63
2:F:110:ALA:HB1	2:F:111:PRO:HD2	1.80	0.63
2:I:145:ARG:HH11	2:I:145:ARG:CB	2.12	0.63
1:A:560:CYS:HB2	1:A:603:TYR:CD2	2.33	0.63
1:A:721:VAL:HG11	1:A:799:LEU:HD22	1.81	0.63
1:A:839:MET:C	1:A:839:MET:HE2	2.19	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:305:GLN:HG3	1:B:564:ASN:HD21	1.62	0.63
1:B:415:PRO:CB	1:B:480:PHE:HB2	2.28	0.63
1:B:503:ILE:HD11	1:B:548:ARG:CG	2.26	0.63
1:B:722:ASN:ND2	1:B:824:LYS:HA	2.10	0.63
2:D:109:ILE:HD12	2:D:109:ILE:O	1.99	0.63
2:F:12:LYS:HG2	2:F:16:ASP:OD2	1.99	0.63
2:O:141:LEU:HD12	2:O:148:THR:HG21	1.80	0.63
3:W:872:ILE:HD11	3:W:1072:ASN:HB2	1.80	0.63
1:A:262:VAL:HG12	1:A:297:ARG:HB3	1.80	0.63
1:B:498:ARG:HD3	2:I:32:GLN:HE21	1.63	0.63
2:F:104:SER:O	2:F:105:GLN:HB2	1.98	0.63
2:L:346:VAL:HG21	2:L:385:VAL:HG13	1.81	0.63
3:W:324:LYS:O	3:W:328:TRP:HD1	1.82	0.63
3:W:729:ARG:NH1	3:W:770:ASP:OD1	2.31	0.63
1:B:231:ARG:HB3	1:B:240:ASN:HB2	1.80	0.63
1:B:422:GLU:HA	1:B:425:VAL:CG2	2.29	0.63
1:B:492:VAL:HG11	1:B:558:MET:SD	2.38	0.63
1:B:587:LEU:HG	1:B:587:LEU:O	1.97	0.63
1:B:701:GLN:HB2	1:B:826:TYR:CD2	2.29	0.63
1:B:735:LEU:HD21	1:B:759:LEU:HB3	1.80	0.63
1:A:513:LEU:HA	1:A:516:GLN:HE22	1.64	0.63
2:C:12:LYS:HG2	2:C:16:ASP:OD2	1.99	0.63
2:L:24:TYR:O	2:L:27:VAL:HG22	1.98	0.63
2:L:85:ILE:O	2:L:89:VAL:HG23	1.99	0.63
2:O:12:LYS:HG2	2:O:16:ASP:OD2	1.99	0.63
2:O:85:ILE:O	2:O:89:VAL:HG23	1.99	0.63
3:W:470:PHE:HE1	3:W:594:LYS:HD3	1.64	0.63
1:A:795:LEU:O	1:A:797:PRO:HD3	1.98	0.63
1:B:127:GLU:OE1	1:B:151:LYS:HE2	1.98	0.63
1:B:549:LEU:HD13	1:B:877:MET:CE	2.28	0.63
1:B:818:VAL:HG12	1:B:819:PRO:HD2	1.80	0.63
2:K:346:VAL:HG21	2:K:385:VAL:HG13	1.81	0.63
2:N:106:ARG:H	2:N:106:ARG:CD	1.99	0.63
2:O:147:ARG:HG2	2:O:148:THR:N	2.13	0.63
1:A:436:ILE:HD12	1:A:436:ILE:C	2.18	0.63
1:A:601:PHE:HD1	1:A:601:PHE:H	1.46	0.63
1:A:328:LEU:HD11	1:A:606:VAL:HG21	1.80	0.62
1:A:416:ASN:HB3	1:A:424:LEU:CD2	2.29	0.62
1:B:274:ILE:HG23	1:B:278:ILE:CD1	2.24	0.62
2:I:12:LYS:HG2	2:I:16:ASP:OD2	1.99	0.62
2:I:85:ILE:O	2:I:89:VAL:HG23	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:49:GLY:HA2	2:N:54:LEU:HD23	1.81	0.62
2:N:346:VAL:HG21	2:N:385:VAL:HG13	1.81	0.62
3:W:147:PHE:CE1	3:W:151:LYS:HE3	2.33	0.62
3:W:161:LYS:O	3:W:165:ARG:HG3	1.98	0.62
1:A:721:VAL:HG13	1:A:800:TYR:O	1.98	0.62
1:A:810:TYR:O	1:A:812:VAL:N	2.32	0.62
1:B:95:ILE:HG22	1:B:97:THR:OG1	1.99	0.62
1:B:199:VAL:CG1	1:B:200:VAL:N	2.62	0.62
1:B:305:GLN:HE21	1:B:564:ASN:CG	2.03	0.62
1:B:451:ASP:N	1:B:452:PRO:HD3	2.13	0.62
1:B:494:ASN:ND2	1:B:495:ASP:N	2.46	0.62
1:B:704:ILE:O	1:B:823:THR:OG1	2.17	0.62
1:B:812:VAL:HG22	1:B:813:ALA:N	2.13	0.62
2:J:346:VAL:HG21	2:J:385:VAL:HG13	1.81	0.62
2:O:346:VAL:HG21	2:O:385:VAL:HG13	1.81	0.62
1:A:360:ILE:CG2	1:A:363:GLU:HB2	2.29	0.62
1:A:472:LEU:O	1:A:476:ASN:HB2	1.99	0.62
1:A:545:ASP:HA	1:A:548:ARG:HD2	1.80	0.62
1:B:596:SER:HB2	1:B:599:THR:OG1	1.99	0.62
2:H:346:VAL:HG21	2:H:385:VAL:HG13	1.81	0.62
2:J:144:ARG:HD2	2:K:82:ARG:CZ	2.28	0.62
2:K:48:THR:HG22	2:K:115:SER:OG	1.98	0.62
2:O:135:TYR:OH	2:O:340:GLU:OE1	2.17	0.62
3:W:408:LEU:HD13	3:W:415:ILE:HG13	1.79	0.62
3:W:781:GLU:O	3:W:785:GLN:HB2	1.98	0.62
1:A:503:ILE:CD1	1:A:547:THR:HB	2.29	0.62
1:B:122:LEU:HD11	1:B:200:VAL:CG1	2.29	0.62
1:B:497:ILE:HG12	2:I:68:THR:HG23	1.82	0.62
1:B:681:ILE:O	1:B:684:LEU:HB3	1.99	0.62
1:B:723:ILE:O	1:B:824:LYS:HD2	2.00	0.62
2:C:21:GLY:O	2:C:22:THR:O	2.17	0.62
1:B:394:LEU:C	1:B:396:PHE:H	2.02	0.62
1:B:791:LYS:C	1:B:792:VAL:HG13	2.20	0.62
2:C:8:SER:O	2:C:11:LEU:N	2.33	0.62
2:E:116:LEU:HA	2:E:119:LEU:HD12	1.81	0.62
2:H:109:ILE:O	2:H:109:ILE:CG1	2.48	0.62
2:I:346:VAL:HG21	2:I:385:VAL:HG13	1.81	0.62
2:L:4:LEU:HA	2:L:7:LEU:CD1	2.28	0.62
1:A:763:LEU:HD23	1:A:764:PRO:HD3	1.80	0.62
1:B:432:VAL:HA	1:B:436:ILE:CD1	2.12	0.62
1:B:692:ILE:HD12	1:B:692:ILE:H	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:85:ILE:O	2:J:89:VAL:HG23	1.99	0.62
3:W:463:PHE:HD2	3:W:465:LEU:HD21	1.65	0.62
3:W:906:ASN:ND2	3:W:907:VAL:H	1.95	0.62
3:W:1001:TYR:CD1	3:W:1084:ASN:HB3	2.33	0.62
1:A:738:LEU:C	1:A:740:ARG:H	2.02	0.62
1:B:371:ASN:HA	1:B:374:ALA:HB3	1.82	0.62
1:B:435:ILE:O	1:B:436:ILE:HG12	2.00	0.62
3:W:161:LYS:HB3	3:W:165:ARG:HH12	1.64	0.62
3:W:324:LYS:O	3:W:328:TRP:CD1	2.53	0.62
1:A:556:THR:O	1:A:557:LEU:C	2.38	0.62
1:A:596:SER:O	1:A:600:LEU:HD12	1.99	0.62
2:F:346:VAL:HG21	2:F:385:VAL:HG13	1.81	0.62
2:H:4:LEU:HA	2:H:7:LEU:CD1	2.28	0.62
2:H:76:ASN:CB	2:J:76:ASN:HB2	2.30	0.62
2:I:23:LEU:HD23	2:I:24:TYR:H	1.65	0.62
2:J:22:THR:HG22	2:J:73:LEU:HD12	1.81	0.62
2:L:38:ILE:HD12	2:L:65:LEU:CD2	2.29	0.62
2:N:8:SER:O	2:N:11:LEU:N	2.33	0.62
1:B:634:TYR:O	1:B:635:GLN:HG2	1.99	0.62
2:G:46:PHE:HE2	2:G:119:LEU:HD21	1.63	0.62
2:H:12:LYS:HG2	2:H:16:ASP:OD2	2.00	0.62
2:L:62:ASP:CG	2:L:62:ASP:O	2.37	0.62
2:M:346:VAL:HG21	2:M:385:VAL:HG13	1.81	0.62
2:O:23:LEU:HD23	2:O:24:TYR:N	2.14	0.62
3:W:758:THR:HG22	3:W:766:PHE:O	2.00	0.62
1:A:692:ILE:H	1:A:692:ILE:HD12	1.64	0.62
1:B:240:ASN:HA	1:B:842:LEU:O	2.00	0.62
1:B:722:ASN:O	1:B:824:LYS:HB2	1.99	0.62
2:D:27:VAL:O	2:D:31:ILE:HG12	1.99	0.62
2:L:109:ILE:HD12	2:L:109:ILE:O	1.99	0.62
3:W:247:PRO:HG3	3:W:291:MET:HB3	1.81	0.62
1:B:503:ILE:HG21	1:B:544:VAL:HG13	1.80	0.61
2:E:12:LYS:HG2	2:E:16:ASP:OD2	1.99	0.61
3:W:225:ILE:HD13	3:W:325:ILE:HD13	1.81	0.61
3:W:928:SER:HB2	3:W:984:ASP:OD1	2.00	0.61
1:A:568:VAL:HG12	1:A:569:GLN:N	2.14	0.61
1:B:508:GLU:CD	2:J:71:LEU:HB3	2.20	0.61
1:B:863:VAL:HG12	1:B:864:GLU:H	1.65	0.61
2:G:27:VAL:O	2:G:31:ILE:HG12	2.01	0.61
2:L:22:THR:HG23	2:L:73:LEU:CD1	2.23	0.61
2:M:116:LEU:HA	2:M:119:LEU:HD12	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:145:ARG:HB3	2:M:145:ARG:CZ	2.31	0.61
2:N:66:LEU:HD13	2:N:77:TYR:OH	2.00	0.61
1:A:225:ILE:HA	1:A:228:MET:HE1	1.83	0.61
1:A:362:SER:CB	1:A:365:GLN:NE2	2.63	0.61
1:A:447:TYR:OH	1:A:458:ILE:HG23	2.01	0.61
1:B:94:THR:O	1:B:316:SER:HB3	2.01	0.61
1:B:182:LEU:HD21	1:B:846:LEU:HA	1.82	0.61
1:B:194:ARG:HA	1:B:194:ARG:CZ	2.30	0.61
1:B:415:PRO:HG2	1:B:480:PHE:CD1	2.30	0.61
1:B:428:GLN:HB2	1:B:456:PHE:HD1	1.61	0.61
2:D:23:LEU:HD23	2:D:24:TYR:H	1.62	0.61
2:D:346:VAL:HG21	2:D:385:VAL:HG13	1.81	0.61
2:E:8:SER:O	2:E:11:LEU:N	2.34	0.61
2:E:346:VAL:HG21	2:E:385:VAL:HG13	1.81	0.61
1:B:744:TYR:O	1:B:745:ALA:HB3	2.00	0.61
2:G:12:LYS:HG2	2:G:16:ASP:OD2	1.99	0.61
2:J:116:LEU:HA	2:J:119:LEU:HD12	1.82	0.61
2:K:8:SER:O	2:K:11:LEU:N	2.34	0.61
2:O:38:ILE:HG22	2:O:42:ASN:HD21	1.64	0.61
1:A:389:GLN:HG3	1:A:389:GLN:O	2.00	0.61
1:B:521:MET:HB2	1:B:522:PRO:HD2	1.81	0.61
2:G:38:ILE:HG22	2:G:42:ASN:HD21	1.64	0.61
2:G:128:ASN:HB3	2:H:19:VAL:HG23	1.81	0.61
2:I:116:LEU:HA	2:I:119:LEU:HD12	1.82	0.61
2:L:8:SER:O	2:L:11:LEU:N	2.33	0.61
2:M:63:PHE:CD2	2:M:84:THR:HG23	2.35	0.61
2:O:8:SER:O	2:O:11:LEU:N	2.34	0.61
1:A:506:LEU:HD21	1:A:543:LEU:C	2.20	0.61
1:B:297:ARG:HG3	1:B:848:PHE:CD2	2.29	0.61
2:D:85:ILE:O	2:D:89:VAL:HG23	2.01	0.61
3:W:292:LEU:O	3:W:296:ARG:HG3	2.00	0.61
3:W:463:PHE:CD1	3:W:590:ALA:HB3	2.35	0.61
1:A:443:GLN:CD	1:A:521:MET:HG2	2.21	0.61
1:B:545:ASP:HA	1:B:548:ARG:HD2	1.82	0.61
3:W:779:VAL:O	3:W:782:VAL:HG23	2.00	0.61
3:W:917:ARG:HD2	3:W:919:TYR:CE1	2.36	0.61
1:A:257:LEU:HD13	1:A:843:THR:O	2.01	0.61
1:A:282:VAL:O	1:A:284:TYR:N	2.34	0.61
1:A:443:GLN:O	1:A:445:MET:N	2.34	0.61
1:A:450:GLY:O	1:A:451:ASP:HB2	2.01	0.61
1:B:496:ASN:HB3	1:B:498:ARG:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:147:ARG:O	2:O:148:THR:HB	1.99	0.61
2:O:150:PHE:N	2:O:150:PHE:CD1	2.69	0.61
3:W:967:ILE:HD12	3:W:967:ILE:N	2.15	0.61
1:A:125:ILE:HD13	1:A:126:PHE:HE2	1.66	0.61
2:J:6:SER:OG	2:J:128:ASN:HA	2.00	0.61
2:L:72:ASN:ND2	2:N:126:ARG:HH11	1.99	0.61
2:O:116:LEU:HA	2:O:119:LEU:HD12	1.82	0.61
3:W:145:VAL:HG21	3:W:211:ILE:HG23	1.82	0.61
1:A:701:GLN:HB3	1:A:826:TYR:HD2	1.66	0.61
1:B:96:PRO:O	1:B:320:THR:HG21	1.99	0.61
1:B:523:VAL:O	1:B:525:TYR:N	2.34	0.61
2:E:135:TYR:CZ	2:E:342:MET:HE3	2.36	0.61
2:G:346:VAL:HG21	2:G:385:VAL:HG13	1.81	0.61
2:I:19:VAL:HG23	2:K:128:ASN:HB3	1.83	0.61
2:J:8:SER:O	2:J:11:LEU:N	2.34	0.61
2:K:152:PHE:N	2:K:152:PHE:CD1	2.69	0.61
2:N:116:LEU:HA	2:N:119:LEU:HD12	1.82	0.61
3:W:98:LEU:CD1	3:W:172:ILE:HG23	2.30	0.61
3:W:573:VAL:HG21	3:W:586:TYR:CD1	2.36	0.61
1:A:434:THR:O	1:A:434:THR:HG22	2.00	0.60
1:A:570:THR:CG2	1:A:571:LEU:H	2.12	0.60
1:A:660:ASP:O	1:A:661:GLN:C	2.38	0.60
1:A:817:TRP:CG	1:A:818:VAL:N	2.65	0.60
1:B:133:ILE:CD1	1:B:145:ARG:HB2	2.31	0.60
1:B:180:TYR:CD1	1:B:181:LEU:N	2.68	0.60
1:B:333:VAL:HG11	1:B:380:LYS:HA	1.83	0.60
1:B:482:GLN:CB	1:B:493:LEU:HD22	2.30	0.60
2:E:150:PHE:HB2	2:E:152:PHE:CZ	2.37	0.60
2:N:109:ILE:HB	2:N:380:ASP:HB3	1.82	0.60
1:A:319:ASP:OD2	1:A:571:LEU:HB3	2.00	0.60
1:A:403:SER:HA	1:A:582:THR:OG1	2.00	0.60
1:A:631:LEU:HB3	1:A:633:LEU:CD1	2.31	0.60
1:A:817:TRP:CH2	1:A:819:PRO:HA	2.36	0.60
1:B:156:PRO:HB2	1:B:161:ASP:CB	2.30	0.60
1:B:364:THR:HG21	3:W:622:ALA:HA	1.83	0.60
1:B:503:ILE:HD13	1:B:544:VAL:CG1	2.31	0.60
1:B:527:ARG:O	1:B:531:ARG:CG	2.49	0.60
1:B:779:ASP:HA	1:B:798:ILE:HD11	1.82	0.60
2:C:346:VAL:HG21	2:C:385:VAL:HG13	1.81	0.60
2:F:109:ILE:HD12	2:F:109:ILE:O	2.01	0.60
2:H:142:GLN:HE21	2:H:143:ASN:N	1.98	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:150:PHE:HB2	2:L:152:PHE:HE1	1.60	0.60
2:M:49:GLY:HA2	2:M:54:LEU:CD2	2.31	0.60
1:A:122:LEU:HD11	1:A:200:VAL:HG12	1.82	0.60
1:A:308:LEU:O	1:A:309:ASN:C	2.39	0.60
1:A:625:ILE:O	1:A:628:ALA:HB3	2.00	0.60
1:A:757:VAL:HG12	1:A:758:ALA:N	2.17	0.60
1:A:779:ASP:HA	1:A:798:ILE:HD11	1.80	0.60
1:B:118:LYS:CG	1:B:119:GLN:H	2.13	0.60
1:B:684:LEU:O	1:B:687:MET:HG2	2.02	0.60
2:D:133:SER:O	2:D:135:TYR:N	2.35	0.60
1:A:355:LEU:HD13	1:A:363:GLU:HG2	1.83	0.60
1:B:424:LEU:HD12	1:B:424:LEU:O	2.01	0.60
2:E:57:ARG:HH11	2:E:94:ASN:HD21	1.49	0.60
2:I:153:HIS:NE2	2:J:153:HIS:NE2	2.50	0.60
2:M:5:TYR:CE2	2:M:131:ASN:HA	2.37	0.60
2:M:8:SER:O	2:M:11:LEU:N	2.34	0.60
2:N:12:LYS:C	2:N:14:ALA:N	2.54	0.60
3:W:100:ALA:O	3:W:102:LEU:HD13	2.02	0.60
1:B:275:PRO:HD2	1:B:278:ILE:HD11	1.83	0.60
1:B:492:VAL:O	1:B:493:LEU:C	2.40	0.60
1:B:875:ARG:HD3	1:B:878:ASN:HD22	1.66	0.60
2:E:133:SER:O	2:E:135:TYR:N	2.35	0.60
2:L:116:LEU:HA	2:L:119:LEU:HD12	1.83	0.60
2:O:24:TYR:HB2	2:O:71:LEU:HD12	1.83	0.60
1:A:437:TYR:CD2	1:A:442:MET:HG3	2.36	0.60
1:A:803:ASN:C	1:A:805:ASP:H	2.05	0.60
1:B:389:GLN:NE2	1:B:567:HIS:HA	2.17	0.60
1:B:604:TYR:O	1:B:608:VAL:HG23	2.00	0.60
2:D:8:SER:O	2:D:11:LEU:N	2.34	0.60
2:H:8:SER:O	2:H:11:LEU:N	2.34	0.60
2:N:27:VAL:O	2:N:30:LEU:N	2.34	0.60
2:N:157:ILE:HG12	2:N:214:LEU:HD13	1.84	0.60
1:A:203:GLU:O	1:A:207:ILE:HG13	2.02	0.60
1:B:371:ASN:HD22	1:B:583:SER:CB	2.10	0.60
1:B:674:VAL:CG2	1:B:679:LEU:HD13	2.27	0.60
1:B:745:ALA:O	1:B:746:GLN:C	2.40	0.60
1:B:874:MET:O	1:B:875:ARG:CB	2.50	0.60
2:E:85:ILE:O	2:E:89:VAL:HG23	2.01	0.60
2:F:104:SER:HB3	2:F:108:GLY:HA3	1.84	0.60
2:H:23:LEU:H	2:H:26:ASN:ND2	2.00	0.60
2:I:68:THR:HG22	2:I:69:THR:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:73:LEU:HD22	2:L:77:TYR:CD2	2.36	0.60
2:M:145:ARG:HB3	2:M:145:ARG:NH1	2.16	0.60
1:A:225:ILE:HA	1:A:228:MET:CE	2.32	0.60
1:A:237:ASN:OD1	1:A:237:ASN:O	2.20	0.60
1:A:326:TYR:CD1	1:A:384:ALA:HB1	2.36	0.60
1:A:492:VAL:CG1	1:A:558:MET:SD	2.90	0.60
1:A:546:LEU:CD1	1:A:584:LEU:HD23	2.32	0.60
1:A:666:ARG:HG3	1:A:667:ASP:N	2.14	0.60
1:A:727:LEU:HD12	1:A:727:LEU:O	2.02	0.60
1:B:274:ILE:CG2	1:B:278:ILE:HD11	2.25	0.60
1:B:371:ASN:C	1:B:373:GLN:N	2.52	0.60
1:B:387:LEU:HD23	1:B:554:TYR:CE1	2.36	0.60
1:B:508:GLU:C	1:B:512:GLN:HE21	2.05	0.60
1:B:743:ASP:OD2	1:B:745:ALA:HA	2.01	0.60
2:C:133:SER:O	2:C:135:TYR:N	2.34	0.60
2:D:116:LEU:HA	2:D:119:LEU:HD12	1.82	0.60
2:F:133:SER:O	2:F:135:TYR:N	2.35	0.60
2:G:157:ILE:HG12	2:G:214:LEU:HD13	1.84	0.60
2:J:110:ALA:HB1	2:J:111:PRO:HD2	1.83	0.60
2:K:5:TYR:CE2	2:K:131:ASN:HA	2.37	0.60
2:K:116:LEU:HA	2:K:119:LEU:HD12	1.84	0.60
2:M:274:GLN:N	2:M:274:GLN:HE21	2.00	0.60
3:W:473:GLN:HE22	3:W:593:GLU:HB3	1.66	0.60
1:B:180:TYR:CD1	1:B:180:TYR:C	2.75	0.60
1:B:435:ILE:CG2	1:B:436:ILE:H	2.09	0.60
1:B:502:VAL:O	1:B:504:ASN:N	2.35	0.60
1:B:723:ILE:O	1:B:724:ALA:HB2	2.01	0.60
2:D:38:ILE:HG22	2:D:42:ASN:HD21	1.67	0.60
2:E:157:ILE:HG12	2:E:214:LEU:HD13	1.84	0.60
2:J:133:SER:O	2:J:135:TYR:N	2.35	0.60
2:J:274:GLN:N	2:J:274:GLN:HE21	2.00	0.60
1:A:535:LEU:O	1:A:539:ARG:HG2	2.02	0.60
1:B:555:GLU:OE2	1:B:871:PHE:HE2	1.85	0.60
1:B:601:PHE:H	1:B:601:PHE:HD1	1.47	0.60
2:F:157:ILE:HG12	2:F:214:LEU:HD13	1.84	0.60
2:G:73:LEU:HD22	2:G:77:TYR:CD2	2.37	0.60
2:H:5:TYR:CE2	2:H:131:ASN:HA	2.37	0.60
2:K:133:SER:O	2:K:135:TYR:N	2.35	0.60
2:M:152:PHE:N	2:M:152:PHE:CD1	2.70	0.60
2:O:8:SER:C	2:O:10:THR:N	2.55	0.60
3:W:165:ARG:HE	3:W:220:HIS:HA	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:463:PHE:CE1	3:W:590:ALA:HB3	2.37	0.60
3:W:708:ASP:HB3	3:W:1080:TYR:CZ	2.37	0.60
3:W:933:LEU:HD23	3:W:962:LEU:HD22	1.84	0.60
1:A:445:MET:C	1:A:447:TYR:N	2.54	0.59
1:A:604:TYR:O	1:A:608:VAL:HG23	2.01	0.59
1:B:482:GLN:HG3	1:B:482:GLN:O	2.02	0.59
1:B:508:GLU:OE2	2:J:71:LEU:HB3	2.02	0.59
1:B:535:LEU:O	1:B:539:ARG:HG2	2.01	0.59
2:C:85:ILE:O	2:C:89:VAL:HG23	2.01	0.59
2:C:274:GLN:N	2:C:274:GLN:HE21	2.00	0.59
2:D:128:ASN:ND2	2:E:19:VAL:HG21	2.17	0.59
2:G:111:PRO:HB3	2:G:116:LEU:HD23	1.83	0.59
2:H:133:SER:O	2:H:135:TYR:N	2.35	0.59
1:A:366:PHE:C	1:A:368:THR:N	2.48	0.59
1:A:577:GLN:O	1:A:581:VAL:HG23	2.01	0.59
1:B:513:LEU:HA	1:B:516:GLN:OE1	2.01	0.59
2:D:76:ASN:HB2	2:L:76:ASN:HB2	1.83	0.59
2:H:152:PHE:N	2:H:152:PHE:CD1	2.69	0.59
2:I:157:ILE:HG12	2:I:214:LEU:HD13	1.84	0.59
2:L:19:VAL:CG2	2:N:128:ASN:HB3	2.32	0.59
2:M:24:TYR:O	2:M:27:VAL:HG22	2.02	0.59
1:A:246:HIS:CD2	1:A:248:ILE:HB	2.36	0.59
1:A:548:ARG:HH11	1:A:877:MET:CA	2.14	0.59
1:A:744:TYR:O	1:A:746:GLN:N	2.35	0.59
1:A:747:ILE:HD11	1:A:786:ILE:HG21	1.85	0.59
1:B:112:LYS:N	1:B:113:PRO:HD3	2.18	0.59
1:B:124:ARG:HB2	1:B:249:ASP:CG	2.22	0.59
1:B:363:GLU:HA	1:B:363:GLU:OE1	2.02	0.59
1:B:401:TYR:O	1:B:404:LEU:HB2	2.02	0.59
1:B:863:VAL:HG12	1:B:864:GLU:N	2.17	0.59
2:C:131:ASN:HD22	2:C:131:ASN:N	1.99	0.59
2:G:85:ILE:O	2:G:89:VAL:HG23	2.01	0.59
2:H:274:GLN:N	2:H:274:GLN:HE21	2.00	0.59
2:M:133:SER:O	2:M:135:TYR:N	2.35	0.59
2:N:85:ILE:O	2:N:89:VAL:HG23	2.02	0.59
2:N:274:GLN:N	2:N:274:GLN:HE21	2.00	0.59
3:W:816:SER:HB3	3:W:820:LEU:HD11	1.82	0.59
1:A:703:VAL:HG21	1:A:797:PRO:HB3	1.84	0.59
1:B:543:LEU:HD23	1:B:546:LEU:HD12	1.84	0.59
2:F:23:LEU:HD11	2:H:36:GLN:HB2	1.85	0.59
2:J:8:SER:C	2:J:10:THR:N	2.55	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:415:PRO:HB3	1:A:479:GLN:HA	1.84	0.59
1:A:521:MET:HA	1:A:521:MET:HE2	1.84	0.59
1:A:545:ASP:O	1:A:548:ARG:N	2.35	0.59
1:A:700:ALA:O	1:A:701:GLN:HB2	2.02	0.59
1:A:839:MET:HG2	1:A:840:HIS:N	2.16	0.59
1:B:383:ILE:HD11	1:B:550:LEU:CD2	2.32	0.59
2:D:70:LEU:HD12	2:D:71:LEU:N	2.17	0.59
2:L:53:ASN:HD22	2:L:354:ALA:HB3	1.66	0.59
2:L:157:ILE:HG12	2:L:214:LEU:HD13	1.84	0.59
1:A:371:ASN:O	1:A:373:GLN:N	2.36	0.59
1:A:548:ARG:NH1	1:A:877:MET:HA	2.17	0.59
1:A:770:SER:O	1:A:771:VAL:C	2.40	0.59
1:B:141:GLU:O	1:B:142:LEU:HB2	2.03	0.59
1:B:368:THR:O	1:B:371:ASN:ND2	2.36	0.59
1:B:393:SER:HB3	1:B:573:THR:HG21	1.84	0.59
2:C:8:SER:C	2:C:10:THR:N	2.55	0.59
2:D:104:SER:O	2:D:108:GLY:HA3	2.02	0.59
2:H:135:TYR:CZ	2:H:342:MET:HE3	2.38	0.59
2:M:74:ASP:OD2	2:M:76:ASN:HB3	2.03	0.59
2:M:135:TYR:OH	2:M:340:GLU:OE1	2.20	0.59
2:O:274:GLN:HE21	2:O:274:GLN:N	2.00	0.59
3:W:791:LEU:HD23	3:W:791:LEU:H	1.65	0.59
1:A:160:TYR:CZ	1:A:635:GLN:HB2	2.38	0.59
1:A:803:ASN:H	1:A:807:ASN:ND2	2.00	0.59
1:B:190:ASN:HD21	1:B:193:SER:CB	2.10	0.59
1:B:498:ARG:HH22	2:J:25:SER:H	1.49	0.59
2:C:5:TYR:CE2	2:C:131:ASN:HA	2.36	0.59
2:D:157:ILE:HG12	2:D:214:LEU:HD13	1.84	0.59
2:J:157:ILE:HG12	2:J:214:LEU:HD13	1.84	0.59
2:K:157:ILE:HG12	2:K:214:LEU:HD13	1.84	0.59
2:L:130:ASP:HA	2:M:17:LYS:HG2	1.83	0.59
3:W:134:ILE:HG23	3:W:136:THR:HG22	1.85	0.59
1:A:368:THR:HG21	1:A:582:THR:HB	1.83	0.59
1:A:413:VAL:HG12	1:A:414:VAL:N	2.17	0.59
1:A:464:GLN:HG3	2:F:39:ILE:HD11	1.84	0.59
2:D:76:ASN:H	2:L:76:ASN:HB2	1.67	0.59
2:E:274:GLN:N	2:E:274:GLN:HE21	2.00	0.59
2:G:8:SER:C	2:G:10:THR:N	2.56	0.59
2:H:157:ILE:HG12	2:H:214:LEU:HD13	1.84	0.59
2:J:124:PHE:O	2:J:127:ILE:HG13	2.03	0.59
3:W:687:ILE:CG2	3:W:900:MET:HG2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:216:GLU:CD	1:A:216:GLU:N	2.55	0.59
1:A:322:THR:HG21	1:A:390:ARG:HA	1.83	0.59
1:A:409:TRP:HH2	1:A:547:THR:HG1	1.50	0.59
1:A:467:GLN:HE21	1:A:511:MET:HG2	1.67	0.59
1:A:520:THR:HG21	1:A:526:LYS:HD3	1.85	0.59
1:A:545:ASP:HA	1:A:548:ARG:CD	2.33	0.59
1:A:771:VAL:HG22	1:A:772:ILE:N	2.18	0.59
1:A:784:ALA:O	1:A:785:GLN:C	2.41	0.59
1:B:833:PHE:CZ	1:B:835:PHE:HA	2.38	0.59
2:F:8:SER:O	2:F:11:LEU:N	2.36	0.59
2:F:274:GLN:N	2:F:274:GLN:HE21	2.00	0.59
2:G:71:LEU:HG	2:G:72:ASN:N	2.17	0.59
2:G:152:PHE:CD1	2:G:152:PHE:N	2.71	0.59
2:H:85:ILE:O	2:H:89:VAL:HG23	2.03	0.59
2:J:12:LYS:C	2:J:14:ALA:N	2.55	0.59
2:L:274:GLN:HE21	2:L:274:GLN:N	2.00	0.59
2:O:4:LEU:HG	2:O:391:ILE:HG21	1.85	0.59
3:W:460:ARG:HH11	3:W:460:ARG:HG3	1.67	0.59
3:W:586:TYR:CE2	3:W:588:ALA:HB3	2.37	0.59
1:A:242:PRO:HA	1:A:841:MET:SD	2.42	0.59
1:A:401:TYR:O	1:A:404:LEU:HB2	2.02	0.59
1:A:546:LEU:HD11	1:A:588:ILE:HD12	1.83	0.59
1:A:629:ASN:C	1:A:631:LEU:H	2.02	0.59
1:A:722:ASN:HD22	1:A:824:LYS:HA	1.68	0.59
1:A:810:TYR:CD1	1:A:811:LEU:N	2.71	0.59
1:B:803:ASN:N	1:B:807:ASN:ND2	2.48	0.59
2:I:152:PHE:N	2:I:152:PHE:CD1	2.70	0.59
2:K:8:SER:C	2:K:10:THR:N	2.55	0.59
2:M:38:ILE:HG22	2:M:42:ASN:HD21	1.67	0.59
2:M:135:TYR:CZ	2:M:342:MET:HE3	2.37	0.59
2:N:109:ILE:HD12	2:N:109:ILE:O	2.03	0.59
2:O:12:LYS:C	2:O:14:ALA:N	2.57	0.59
2:O:100:MET:HG3	2:O:388:VAL:HG11	1.85	0.59
3:W:105:ASN:HB3	3:W:110:GLU:HB2	1.85	0.59
1:A:437:TYR:CE2	1:A:442:MET:HG3	2.37	0.58
1:A:484:VAL:HG12	1:A:485:ILE:H	1.68	0.58
1:A:571:LEU:HD23	1:B:531:ARG:NH2	2.17	0.58
1:A:803:ASN:O	1:A:805:ASP:N	2.36	0.58
1:B:285:ILE:C	1:B:286:LEU:HD13	2.22	0.58
1:B:326:TYR:CD1	1:B:384:ALA:HB1	2.37	0.58
1:B:745:ALA:HB1	1:B:748:THR:CB	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:116:LEU:HA	2:F:119:LEU:HD12	1.85	0.58
2:G:153:HIS:NE2	2:H:153:HIS:NE2	2.51	0.58
2:H:116:LEU:HA	2:H:119:LEU:HD12	1.84	0.58
3:W:319:PHE:N	3:W:320:PRO:CD	2.66	0.58
3:W:343:ALA:O	3:W:346:GLN:HG3	2.03	0.58
1:A:428:GLN:NE2	1:A:455:PRO:CB	2.59	0.58
1:A:508:GLU:O	1:A:512:GLN:HG3	2.02	0.58
1:A:571:LEU:HD23	1:B:531:ARG:CZ	2.32	0.58
1:B:437:TYR:CD2	1:B:443:GLN:HB3	2.38	0.58
1:B:463:ILE:HG21	1:B:468:VAL:HG11	1.84	0.58
1:B:875:ARG:HD3	1:B:878:ASN:ND2	2.18	0.58
2:C:12:LYS:C	2:C:14:ALA:N	2.56	0.58
2:C:157:ILE:HG12	2:C:214:LEU:HD13	1.84	0.58
2:G:274:GLN:HE21	2:G:274:GLN:N	2.00	0.58
2:H:22:THR:HG23	2:H:73:LEU:HD12	1.83	0.58
1:A:420:ILE:CD1	1:A:422:GLU:HG3	2.33	0.58
1:A:503:ILE:C	1:A:505:GLN:N	2.55	0.58
1:A:661:GLN:HG3	1:B:348:LYS:HZ1	1.67	0.58
1:B:111:ILE:HG22	1:B:113:PRO:HD3	1.84	0.58
1:B:190:ASN:O	1:B:192:ASN:N	2.37	0.58
1:B:223:ARG:O	1:B:226:ALA:HB3	2.03	0.58
1:B:421:ARG:O	1:B:425:VAL:HG23	2.02	0.58
2:D:274:GLN:HE21	2:D:274:GLN:N	2.00	0.58
2:E:152:PHE:N	2:E:152:PHE:CD1	2.71	0.58
2:K:260:GLU:HG2	2:K:274:GLN:HG3	1.85	0.58
2:L:5:TYR:CE2	2:L:131:ASN:HA	2.37	0.58
2:M:85:ILE:O	2:M:89:VAL:HG23	2.02	0.58
2:M:157:ILE:HG12	2:M:214:LEU:HD13	1.84	0.58
1:A:197:GLY:O	1:A:198:LYS:C	2.42	0.58
2:D:130:ASP:HA	2:E:17:LYS:HG2	1.84	0.58
2:F:5:TYR:CE2	2:F:131:ASN:HA	2.38	0.58
2:G:133:SER:O	2:G:135:TYR:N	2.35	0.58
2:I:10:THR:O	2:I:14:ALA:HB2	2.04	0.58
2:K:145:ARG:O	2:K:146:GLN:HG2	2.02	0.58
2:L:17:LYS:HG2	2:N:130:ASP:HA	1.84	0.58
3:W:105:ASN:HB2	3:W:111:ASN:CG	2.23	0.58
1:A:244:ILE:O	1:A:245:LEU:HD23	2.03	0.58
1:A:259:HIS:CD2	1:A:677:ARG:HG3	2.38	0.58
1:B:218:GLU:O	1:B:221:VAL:HG23	2.03	0.58
2:F:130:ASP:HA	2:G:17:LYS:HG2	1.85	0.58
2:G:12:LYS:C	2:G:14:ALA:N	2.57	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:116:LEU:HA	2:G:119:LEU:HD12	1.84	0.58
2:L:74:ASP:OD2	2:L:76:ASN:HB3	2.03	0.58
2:O:157:ILE:HG12	2:O:214:LEU:HD13	1.84	0.58
3:W:470:PHE:CE1	3:W:594:LYS:HD3	2.39	0.58
1:A:160:TYR:OH	1:A:635:GLN:HB2	2.04	0.58
1:A:180:TYR:CD1	1:A:180:TYR:C	2.75	0.58
1:A:188:VAL:HG12	1:A:189:GLU:N	2.17	0.58
1:B:508:GLU:O	1:B:512:GLN:HG3	2.04	0.58
2:E:22:THR:HG23	2:E:73:LEU:HD12	1.86	0.58
2:H:8:SER:C	2:H:10:THR:N	2.56	0.58
2:K:49:GLY:HA3	2:K:55:PRO:O	2.03	0.58
2:M:128:ASN:O	2:N:22:THR:HB	2.03	0.58
2:N:133:SER:O	2:N:135:TYR:N	2.36	0.58
3:W:126:THR:HG23	3:W:126:THR:O	2.03	0.58
1:A:744:TYR:C	1:A:746:GLN:H	2.07	0.58
1:B:371:ASN:HB3	1:B:583:SER:HB2	1.86	0.58
1:B:772:ILE:CG2	1:B:773:SER:N	2.66	0.58
2:C:116:LEU:HA	2:C:119:LEU:HD12	1.84	0.58
2:F:85:ILE:O	2:F:89:VAL:HG23	2.04	0.58
2:I:260:GLU:HG2	2:I:274:GLN:HG3	1.86	0.58
2:J:5:TYR:HE2	2:J:131:ASN:HA	1.69	0.58
2:K:85:ILE:O	2:K:89:VAL:HG23	2.02	0.58
2:O:260:GLU:HG2	2:O:274:GLN:HG3	1.86	0.58
3:W:22:VAL:CG2	3:W:77:TYR:HB3	2.34	0.58
3:W:744:ILE:HG13	3:W:858:LEU:HD13	1.85	0.58
1:A:613:ASN:HD22	1:A:649:LEU:HD23	1.69	0.58
1:B:340:VAL:HB	1:B:587:LEU:HD12	1.84	0.58
1:B:416:ASN:O	1:B:418:MET:N	2.36	0.58
2:E:8:SER:C	2:E:10:THR:N	2.55	0.58
2:F:260:GLU:HG2	2:F:274:GLN:HG3	1.86	0.58
2:G:8:SER:O	2:G:11:LEU:N	2.36	0.58
2:J:116:LEU:HD12	2:J:119:LEU:HD12	1.86	0.58
2:L:133:SER:O	2:L:135:TYR:N	2.36	0.58
2:M:12:LYS:C	2:M:14:ALA:N	2.57	0.58
2:N:116:LEU:HD12	2:N:119:LEU:HD12	1.86	0.58
3:W:28:TYR:CD2	3:W:72:LEU:HD13	2.37	0.58
3:W:542:LEU:HD23	3:W:558:LEU:HD23	1.86	0.58
3:W:623:THR:HG21	3:W:626:ILE:HD11	1.86	0.58
1:A:303:LEU:HA	1:A:615:ASN:HD22	1.67	0.58
1:A:304:LEU:N	1:A:615:ASN:HD21	2.02	0.58
1:A:365:GLN:HB2	1:A:366:PHE:CZ	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:420:ILE:CG1	1:A:423:SER:HB2	2.32	0.58
1:A:568:VAL:HG12	1:A:569:GLN:H	1.68	0.58
1:B:190:ASN:HB2	1:B:199:VAL:HG23	1.85	0.58
1:B:459:ALA:O	1:B:463:ILE:HG13	2.03	0.58
1:B:696:SER:O	1:B:827:LYS:HE3	2.04	0.58
2:C:7:LEU:O	2:C:11:LEU:HG	2.04	0.58
2:C:260:GLU:HG2	2:C:274:GLN:HG3	1.86	0.58
2:D:68:THR:O	2:D:69:THR:C	2.41	0.58
2:J:10:THR:O	2:J:14:ALA:HB2	2.04	0.58
2:K:12:LYS:C	2:K:14:ALA:N	2.56	0.58
2:O:133:SER:O	2:O:135:TYR:N	2.36	0.58
3:W:906:ASN:ND2	3:W:907:VAL:HG23	2.18	0.58
1:A:390:ARG:HD2	1:A:570:THR:HG21	1.84	0.58
1:A:803:ASN:H	1:A:807:ASN:HD22	1.50	0.58
1:B:491:GLN:HE22	1:B:566:GLN:CG	2.16	0.58
3:W:292:LEU:HD23	3:W:295:MET:CE	2.34	0.58
3:W:519:THR:CG2	3:W:520:ASP:N	2.67	0.58
2:I:38:ILE:HG22	2:I:42:ASN:ND2	2.16	0.57
2:I:274:GLN:N	2:I:274:GLN:HE21	2.00	0.57
2:K:53:ASN:HD22	2:K:354:ALA:CB	2.17	0.57
2:K:274:GLN:N	2:K:274:GLN:HE21	2.01	0.57
2:L:12:LYS:C	2:L:14:ALA:N	2.56	0.57
2:L:104:SER:HB3	2:L:108:GLY:HA2	1.86	0.57
3:W:449:LEU:HD13	3:W:573:VAL:HG13	1.85	0.57
1:A:527:ARG:O	1:A:531:ARG:CG	2.51	0.57
1:A:681:ILE:O	1:A:684:LEU:HB3	2.03	0.57
1:B:140:LYS:C	1:B:142:LEU:H	2.06	0.57
1:B:199:VAL:CG1	1:B:200:VAL:H	2.17	0.57
2:D:260:GLU:HG2	2:D:274:GLN:HG3	1.86	0.57
2:F:12:LYS:C	2:F:14:ALA:N	2.56	0.57
2:I:8:SER:O	2:I:11:LEU:N	2.36	0.57
2:I:133:SER:O	2:I:135:TYR:N	2.36	0.57
2:M:260:GLU:HG2	2:M:274:GLN:HG3	1.86	0.57
1:A:548:ARG:NH1	1:A:878:ASN:H	2.01	0.57
1:B:254:GLU:HG2	2:N:69:THR:CB	2.34	0.57
1:B:415:PRO:HB2	1:B:480:PHE:HB2	1.86	0.57
1:B:434:THR:HG22	1:B:434:THR:O	2.04	0.57
1:B:472:LEU:O	1:B:476:ASN:HB2	2.04	0.57
1:B:494:ASN:CG	1:B:495:ASP:H	2.07	0.57
2:E:260:GLU:HG2	2:E:274:GLN:HG3	1.86	0.57
2:F:144:ARG:HD2	2:G:82:ARG:NH1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:10:THR:O	2:G:14:ALA:HB2	2.05	0.57
2:I:12:LYS:C	2:I:14:ALA:N	2.56	0.57
2:K:8:SER:O	2:K:10:THR:N	2.38	0.57
2:K:10:THR:O	2:K:14:ALA:HB2	2.05	0.57
2:K:62:ASP:CG	2:K:62:ASP:O	2.42	0.57
2:M:8:SER:C	2:M:10:THR:N	2.55	0.57
2:N:76:ASN:HB2	2:O:76:ASN:H	1.69	0.57
2:F:8:SER:C	2:F:10:THR:N	2.55	0.57
2:I:8:SER:C	2:I:10:THR:N	2.56	0.57
2:L:144:ARG:O	2:L:145:ARG:CB	2.48	0.57
3:W:690:ARG:HB3	3:W:690:ARG:HH11	1.68	0.57
1:A:127:GLU:OE2	1:A:151:LYS:HG2	2.03	0.57
1:A:342:THR:HG21	3:W:967:ILE:HG22	1.87	0.57
1:A:503:ILE:HG22	1:A:506:LEU:HB2	1.86	0.57
1:A:738:LEU:O	1:A:740:ARG:N	2.37	0.57
1:A:771:VAL:CG1	1:A:809:PHE:HB3	2.34	0.57
2:C:116:LEU:HD12	2:C:119:LEU:HD12	1.86	0.57
2:K:7:LEU:O	2:K:11:LEU:HG	2.04	0.57
2:L:7:LEU:O	2:L:11:LEU:HG	2.05	0.57
2:L:145:ARG:O	2:L:146:GLN:HG3	2.04	0.57
1:A:783:PHE:O	1:A:786:ILE:HD12	2.05	0.57
1:B:117:LYS:HB2	1:B:179:ASP:OD2	2.04	0.57
1:B:786:ILE:HG13	1:B:787:VAL:HG23	1.87	0.57
1:B:817:TRP:CD1	1:B:818:VAL:N	2.73	0.57
2:E:149:GLY:C	2:E:150:PHE:CD1	2.77	0.57
2:N:5:TYR:CE2	2:N:131:ASN:HA	2.39	0.57
3:W:208:ASN:HB2	3:W:697:ASN:HD21	1.68	0.57
3:W:561:TYR:OH	3:W:595:GLN:HB3	2.04	0.57
1:A:131:LEU:HD12	1:A:132:PRO:CD	2.35	0.57
1:A:259:HIS:ND1	1:A:260:GLN:N	2.52	0.57
1:B:246:HIS:HB3	1:B:249:ASP:OD2	2.05	0.57
1:B:477:ASN:O	1:B:478:ASN:C	2.43	0.57
1:B:518:PHE:N	1:B:518:PHE:CD1	2.72	0.57
1:B:535:LEU:O	1:B:539:ARG:CG	2.52	0.57
1:B:703:VAL:HG12	1:B:704:ILE:N	2.20	0.57
2:C:128:ASN:HB3	2:D:19:VAL:CG2	2.35	0.57
2:G:116:LEU:HD12	2:G:119:LEU:HD12	1.87	0.57
2:G:260:GLU:HG2	2:G:274:GLN:HG3	1.86	0.57
3:W:951:ILE:HG12	3:W:985:LYS:HA	1.85	0.57
1:A:163:ARG:HH22	1:A:736:GLU:CD	2.07	0.57
1:B:340:VAL:HB	1:B:587:LEU:CD1	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:473:HIS:CB	2:I:126:ARG:HH22	2.08	0.57
1:B:701:GLN:O	1:B:702:GLY:O	2.23	0.57
1:B:839:MET:SD	1:B:839:MET:C	2.83	0.57
2:I:116:LEU:HD12	2:I:119:LEU:HD12	1.86	0.57
2:I:145:ARG:O	2:I:146:GLN:HG3	2.04	0.57
2:M:106:ARG:H	2:M:106:ARG:CD	2.14	0.57
2:O:150:PHE:HB2	2:O:152:PHE:HE1	1.70	0.57
3:W:853:GLN:HE21	3:W:857:LEU:HB2	1.69	0.57
1:A:122:LEU:HD11	1:A:201:ASP:HB2	1.85	0.57
1:A:187:ALA:O	1:A:188:VAL:HG23	2.04	0.57
1:A:420:ILE:CD1	1:A:423:SER:HB2	2.35	0.57
1:A:512:GLN:O	1:A:516:GLN:HG3	2.05	0.57
1:A:710:MET:CE	1:A:824:LYS:HE2	2.35	0.57
1:B:277:ARG:C	1:B:278:ILE:HG12	2.23	0.57
1:B:492:VAL:CG1	1:B:558:MET:SD	2.93	0.57
2:J:260:GLU:HG2	2:J:274:GLN:HG3	1.86	0.57
2:N:260:GLU:HG2	2:N:274:GLN:HG3	1.85	0.57
3:W:572:TYR:CE1	3:W:585:GLN:HG3	2.40	0.57
3:W:872:ILE:O	3:W:1073:ILE:HA	2.05	0.57
1:A:370:ILE:H	3:W:933:LEU:HD11	1.70	0.57
1:B:271:PHE:O	1:B:274:ILE:HB	2.05	0.57
1:B:312:ASP:O	1:B:313:ASN:HB2	2.05	0.57
1:B:673:PRO:C	1:B:674:VAL:HG22	2.26	0.57
2:C:150:PHE:HB2	2:C:152:PHE:CZ	2.40	0.57
2:E:27:VAL:O	2:E:31:ILE:HG12	2.05	0.57
2:E:35:ASN:HA	2:E:38:ILE:HD12	1.87	0.57
2:G:5:TYR:CE2	2:G:131:ASN:HA	2.40	0.57
2:G:24:TYR:O	2:G:27:VAL:HG22	2.03	0.57
2:H:7:LEU:O	2:H:11:LEU:HG	2.05	0.57
2:L:144:ARG:HD2	2:M:82:ARG:NH1	2.20	0.57
3:W:225:ILE:CD1	3:W:325:ILE:HD13	2.33	0.57
3:W:226:ALA:O	3:W:230:ILE:HG13	2.04	0.57
3:W:491:ALA:HB3	3:W:629:ASP:OD1	2.05	0.57
1:A:180:TYR:HD1	1:A:181:LEU:N	2.03	0.56
1:A:597:PRO:HB3	1:A:860:ALA:CB	2.35	0.56
1:B:137:ASN:O	1:B:137:ASN:OD1	2.22	0.56
1:B:254:GLU:CG	2:N:69:THR:HB	2.35	0.56
1:B:272:ASN:C	1:B:274:ILE:N	2.54	0.56
1:B:775:ILE:N	1:B:775:ILE:HD12	2.20	0.56
1:B:790:ARG:CA	1:B:790:ARG:NE	2.47	0.56
2:D:8:SER:C	2:D:10:THR:N	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:116:LEU:HD12	2:D:119:LEU:HD12	1.85	0.56
2:D:128:ASN:HB3	2:E:19:VAL:HG23	1.87	0.56
2:G:61:PHE:HA	2:G:63:PHE:HE1	1.70	0.56
2:G:135:TYR:OH	2:G:340:GLU:OE1	2.23	0.56
2:H:42:ASN:OD1	2:H:62:ASP:HA	2.05	0.56
2:K:14:ALA:O	2:K:18:ILE:HD12	2.05	0.56
2:N:74:ASP:OD2	2:N:76:ASN:HB3	2.05	0.56
3:W:440:PRO:HA	3:W:567:ASN:ND2	2.19	0.56
1:A:226:ALA:O	1:A:228:MET:N	2.32	0.56
1:A:332:VAL:HG13	1:A:599:THR:CG2	2.36	0.56
1:A:703:VAL:HG22	1:A:825:VAL:HG22	1.87	0.56
1:B:97:THR:HA	1:B:320:THR:HG23	1.86	0.56
2:E:12:LYS:C	2:E:14:ALA:N	2.56	0.56
2:M:139:TRP:HE1	2:M:143:ASN:HD21	1.52	0.56
2:O:110:ALA:HB1	2:O:111:PRO:CD	2.35	0.56
1:A:135:ARG:O	1:A:136:ALA:C	2.44	0.56
1:A:275:PRO:O	1:A:278:ILE:HG13	2.05	0.56
1:A:305:GLN:O	1:A:307:ARG:N	2.38	0.56
1:A:420:ILE:HD12	1:A:422:GLU:HG3	1.87	0.56
1:A:649:LEU:O	1:A:650:HIS:O	2.24	0.56
1:A:765:PHE:CD1	1:A:765:PHE:C	2.79	0.56
1:B:368:THR:O	1:B:369:GLY:O	2.23	0.56
1:B:390:ARG:HG3	1:B:391:THR:H	1.69	0.56
1:B:393:SER:N	1:B:573:THR:CG2	2.68	0.56
1:B:409:TRP:CH2	1:B:413:VAL:HG21	2.40	0.56
1:B:556:THR:O	1:B:557:LEU:C	2.44	0.56
2:D:8:SER:O	2:D:10:THR:N	2.38	0.56
2:D:10:THR:O	2:D:14:ALA:HB2	2.05	0.56
2:H:260:GLU:HG2	2:H:274:GLN:HG3	1.85	0.56
2:I:116:LEU:CD1	2:I:119:LEU:HD12	2.36	0.56
2:J:152:PHE:CD1	2:J:152:PHE:N	2.71	0.56
2:K:35:ASN:HA	2:K:38:ILE:HD12	1.87	0.56
2:N:24:TYR:O	2:N:26:ASN:N	2.38	0.56
3:W:329:SER:O	3:W:332:VAL:HG22	2.05	0.56
3:W:477:VAL:HA	3:W:480:MET:CE	2.35	0.56
3:W:984:ASP:O	3:W:988:ILE:HG12	2.05	0.56
1:A:209:ASP:O	1:A:213:GLN:HG3	2.05	0.56
1:A:308:LEU:HB2	1:A:614:TYR:OH	2.06	0.56
1:A:410:LEU:O	1:A:413:VAL:HB	2.05	0.56
1:A:587:LEU:C	1:A:588:ILE:HG13	2.24	0.56
1:A:729:GLY:C	1:A:730:PHE:CD1	2.78	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:153:ASP:OD1	1:B:153:ASP:O	2.22	0.56
1:B:870:ALA:C	1:B:872:ASP:N	2.56	0.56
2:D:12:LYS:C	2:D:14:ALA:N	2.56	0.56
2:G:2:ASP:HB2	2:G:128:ASN:HD21	1.71	0.56
2:H:10:THR:O	2:H:14:ALA:HB2	2.06	0.56
2:H:27:VAL:CG2	2:H:31:ILE:HD11	2.35	0.56
2:J:74:ASP:OD2	2:J:76:ASN:HB3	2.04	0.56
2:M:110:ALA:HB1	2:M:111:PRO:CD	2.36	0.56
2:M:150:PHE:N	2:M:150:PHE:CD1	2.74	0.56
3:W:112:ASN:ND2	3:W:234:TYR:CE1	2.74	0.56
3:W:334:PHE:HB2	3:W:336:LYS:HE3	1.87	0.56
3:W:948:TYR:O	3:W:951:ILE:HG22	2.05	0.56
1:A:190:ASN:OD1	1:A:192:ASN:N	2.38	0.56
1:B:303:LEU:HD13	1:B:562:THR:HG21	1.88	0.56
1:B:618:ILE:O	1:B:622:VAL:HG23	2.06	0.56
2:H:108:GLY:C	2:H:110:ALA:H	2.09	0.56
2:L:38:ILE:HD12	2:L:65:LEU:HD23	1.86	0.56
2:M:7:LEU:O	2:M:11:LEU:HG	2.06	0.56
2:M:10:THR:O	2:M:14:ALA:HB2	2.05	0.56
2:N:144:ARG:O	2:N:145:ARG:CB	2.52	0.56
2:O:116:LEU:HD12	2:O:119:LEU:HD12	1.87	0.56
3:W:208:ASN:HB2	3:W:697:ASN:ND2	2.20	0.56
3:W:528:GLN:O	3:W:531:THR:HG22	2.06	0.56
3:W:1059:PRO:O	3:W:1063:MET:HG3	2.06	0.56
1:A:245:LEU:HB3	1:A:249:ASP:CB	2.34	0.56
1:B:203:GLU:O	1:B:207:ILE:HG13	2.05	0.56
1:B:246:HIS:ND1	1:B:247:PRO:HD2	2.20	0.56
2:E:5:TYR:HE2	2:E:131:ASN:HA	1.69	0.56
2:E:109:ILE:HD12	2:E:109:ILE:O	2.05	0.56
2:F:150:PHE:HB2	2:F:152:PHE:HE1	1.70	0.56
2:I:76:ASN:H	2:M:76:ASN:CB	2.13	0.56
2:L:8:SER:C	2:L:10:THR:N	2.55	0.56
2:L:260:GLU:HG2	2:L:274:GLN:HG3	1.86	0.56
3:W:385:LEU:CD2	3:W:479:LYS:HE2	2.31	0.56
3:W:499:GLN:NE2	3:W:680:ARG:HH11	2.02	0.56
1:B:392:MET:HA	1:B:573:THR:HG23	1.87	0.56
2:C:35:ASN:HA	2:C:38:ILE:HD12	1.88	0.56
2:D:38:ILE:HD12	2:D:65:LEU:CD2	2.35	0.56
2:E:8:SER:O	2:E:10:THR:N	2.39	0.56
2:F:7:LEU:O	2:F:11:LEU:HG	2.06	0.56
2:F:116:LEU:HD12	2:F:119:LEU:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:99:GLU:O	2:K:384:ARG:NH1	2.39	0.56
2:M:150:PHE:HB2	2:M:152:PHE:CZ	2.41	0.56
2:N:10:THR:O	2:N:14:ALA:HB2	2.06	0.56
3:W:781:GLU:O	3:W:784:ILE:HG22	2.05	0.56
3:W:930:ILE:O	3:W:934:ILE:HG13	2.06	0.56
1:A:319:ASP:OD2	1:A:571:LEU:CB	2.53	0.56
1:A:857:PHE:HD1	1:A:857:PHE:H	1.52	0.56
1:B:153:ASP:O	1:B:153:ASP:CG	2.43	0.56
1:B:305:GLN:HE21	1:B:564:ASN:ND2	2.04	0.56
1:B:496:ASN:HB3	1:B:498:ARG:CB	2.35	0.56
2:E:99:GLU:HG3	2:E:99:GLU:O	2.05	0.56
2:K:57:ARG:NH1	2:K:94:ASN:HD21	2.03	0.56
2:M:35:ASN:HA	2:M:38:ILE:HD12	1.86	0.56
2:M:116:LEU:HD12	2:M:119:LEU:HD12	1.86	0.56
2:O:7:LEU:O	2:O:11:LEU:HG	2.06	0.56
2:O:35:ASN:HA	2:O:38:ILE:HD12	1.88	0.56
3:W:119:PHE:CG	3:W:125:TYR:HA	2.40	0.56
1:A:389:GLN:O	1:A:389:GLN:CG	2.54	0.56
1:A:389:GLN:NE2	1:A:568:VAL:H	2.04	0.56
1:A:404:LEU:CD2	1:A:435:ILE:HD11	2.36	0.56
1:A:461:GLN:HB3	2:F:32:GLN:NE2	2.20	0.56
1:A:852:SER:O	1:A:853:ASP:HB3	2.04	0.56
1:B:364:THR:HG23	3:W:622:ALA:HA	1.87	0.56
2:D:128:ASN:HB3	2:E:19:VAL:CG2	2.36	0.56
2:E:38:ILE:HG22	2:E:42:ASN:ND2	2.19	0.56
2:J:8:SER:O	2:J:10:THR:N	2.39	0.56
2:J:35:ASN:HA	2:J:38:ILE:HD12	1.87	0.56
2:J:50:GLY:O	2:J:51:ILE:HB	2.05	0.56
3:W:563:GLN:OE1	3:W:566:ILE:HB	2.06	0.56
3:W:1009:PHE:C	3:W:1010:ASN:HD22	2.09	0.56
1:A:503:ILE:CG2	1:A:506:LEU:HB2	2.36	0.56
1:B:325:ASN:O	1:B:328:LEU:HB3	2.05	0.56
1:B:498:ARG:HG3	1:B:505:GLN:OE1	2.05	0.56
1:B:516:GLN:O	1:B:517:GLN:NE2	2.39	0.56
2:D:7:LEU:O	2:D:11:LEU:HG	2.06	0.56
2:N:7:LEU:O	2:N:11:LEU:HG	2.06	0.56
3:W:223:TYR:O	3:W:227:LYS:HB2	2.06	0.56
1:A:332:VAL:HG13	1:A:599:THR:HG22	1.87	0.55
1:A:440:PHE:O	1:A:442:MET:N	2.38	0.55
1:A:490:ASN:HB3	1:A:492:VAL:HG23	1.88	0.55
1:B:266:ASN:O	1:B:267:ASN:C	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:563:MET:SD	1:B:611:HIS:CD2	2.99	0.55
1:B:707:TYR:HE2	1:B:754:ASN:OD1	1.89	0.55
1:B:712:LEU:CB	1:B:819:PRO:HB2	2.36	0.55
1:B:763:LEU:HD22	1:B:764:PRO:CD	2.36	0.55
2:D:152:PHE:N	2:D:152:PHE:CD1	2.73	0.55
2:F:10:THR:O	2:F:14:ALA:HB2	2.05	0.55
2:I:57:ARG:NH1	2:I:94:ASN:HD21	2.02	0.55
2:I:145:ARG:HB3	2:I:145:ARG:CZ	2.35	0.55
3:W:441:VAL:HG22	3:W:567:ASN:HB3	1.86	0.55
1:A:314:PHE:O	1:A:316:SER:N	2.38	0.55
1:A:346:ILE:O	1:A:349:MET:HB3	2.06	0.55
1:A:414:VAL:O	1:A:416:ASN:N	2.38	0.55
1:A:738:LEU:HA	1:A:741:THR:HG22	1.88	0.55
1:B:260:GLN:O	1:B:262:VAL:N	2.39	0.55
1:B:363:GLU:O	1:B:363:GLU:HG3	2.05	0.55
2:E:129:PHE:CD1	2:E:129:PHE:C	2.80	0.55
2:F:53:ASN:HD22	2:F:354:ALA:HB3	1.71	0.55
3:W:255:VAL:O	3:W:673:VAL:HG21	2.06	0.55
3:W:309:ASP:O	3:W:312:VAL:HG22	2.06	0.55
3:W:524:TRP:NE1	3:W:607:LEU:HD13	2.21	0.55
1:A:396:PHE:CB	1:A:578:LEU:HD12	2.37	0.55
1:A:535:LEU:O	1:A:539:ARG:CG	2.55	0.55
1:B:127:GLU:HB3	1:B:151:LYS:HE3	1.87	0.55
1:B:433:ASN:HD21	1:B:446:HIS:HB3	1.71	0.55
2:C:153:HIS:CD2	2:E:153:HIS:NE2	2.75	0.55
2:F:144:ARG:O	2:F:145:ARG:HB2	2.06	0.55
2:N:8:SER:C	2:N:10:THR:N	2.55	0.55
2:N:99:GLU:HG3	2:N:99:GLU:O	2.06	0.55
2:N:116:LEU:CD1	2:N:119:LEU:HD12	2.36	0.55
2:O:8:SER:O	2:O:10:THR:N	2.40	0.55
3:W:573:VAL:HG23	3:W:586:TYR:HB2	1.88	0.55
3:W:750:LEU:HD21	3:W:861:LEU:CD2	2.34	0.55
3:W:761:SER:OG	3:W:762:THR:N	2.38	0.55
1:A:275:PRO:HB2	1:A:278:ILE:HG13	1.87	0.55
1:A:725:ARG:HB3	1:A:828:GLN:OE1	2.06	0.55
1:A:804:SER:HB2	1:A:810:TYR:CB	2.35	0.55
1:B:428:GLN:HG3	1:B:456:PHE:HD1	1.70	0.55
2:C:99:GLU:HG3	2:C:99:GLU:O	2.07	0.55
2:H:12:LYS:C	2:H:14:ALA:N	2.56	0.55
2:I:35:ASN:HA	2:I:38:ILE:HD12	1.87	0.55
2:J:116:LEU:CD1	2:J:119:LEU:HD12	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:301:VAL:C	3:W:304:PRO:HD2	2.26	0.55
3:W:530:ASN:O	3:W:533:PRO:HD2	2.06	0.55
1:A:150:LEU:HD12	1:A:696:SER:CB	2.34	0.55
1:A:822:THR:C	1:A:823:THR:HG23	2.26	0.55
1:B:413:VAL:HG12	1:B:414:VAL:H	1.69	0.55
1:B:868:ALA:C	1:B:876:ILE:HG23	2.26	0.55
2:G:106:ARG:HD3	2:G:106:ARG:N	2.22	0.55
2:J:14:ALA:C	2:J:16:ASP:H	2.10	0.55
2:J:128:ASN:HB3	2:K:19:VAL:CG2	2.36	0.55
2:N:6:SER:OG	2:N:128:ASN:HA	2.05	0.55
3:W:109:TYR:HD1	3:W:129:LEU:HD13	1.70	0.55
1:A:383:ILE:HD11	1:A:550:LEU:HD23	1.89	0.55
1:A:744:TYR:C	1:A:746:GLN:N	2.60	0.55
1:B:508:GLU:HG2	1:B:512:GLN:HE21	1.71	0.55
1:B:625:ILE:O	1:B:628:ALA:HB3	2.06	0.55
1:B:650:HIS:O	1:B:652:PHE:N	2.39	0.55
1:B:675:GLU:HB3	1:B:678:ARG:HG3	1.88	0.55
1:B:675:GLU:O	1:B:676:VAL:C	2.44	0.55
1:B:723:ILE:HG22	1:B:724:ALA:N	2.16	0.55
1:B:804:SER:HA	1:B:810:TYR:CZ	2.42	0.55
2:C:144:ARG:HD2	2:D:82:ARG:NH1	2.20	0.55
2:C:145:ARG:O	2:C:146:GLN:HG3	2.06	0.55
2:D:116:LEU:CD1	2:D:119:LEU:HD12	2.36	0.55
2:F:8:SER:O	2:F:10:THR:N	2.39	0.55
2:G:63:PHE:N	2:G:63:PHE:CD1	2.74	0.55
2:H:116:LEU:HD12	2:H:119:LEU:HD12	1.89	0.55
2:L:35:ASN:HA	2:L:38:ILE:HD12	1.87	0.55
2:L:116:LEU:HD12	2:L:119:LEU:HD12	1.87	0.55
2:O:10:THR:O	2:O:14:ALA:HB2	2.06	0.55
2:O:144:ARG:O	2:O:145:ARG:HG2	2.07	0.55
3:W:451:ARG:HH21	3:W:459:THR:HG21	1.72	0.55
3:W:882:LYS:HB3	3:W:883:PRO:HD3	1.89	0.55
1:A:732:GLN:O	1:A:733:ILE:HG23	2.06	0.55
1:B:371:ASN:O	1:B:373:GLN:N	2.39	0.55
1:B:784:ALA:O	1:B:785:GLN:O	2.25	0.55
2:C:10:THR:O	2:C:14:ALA:HB2	2.06	0.55
2:C:82:ARG:NH1	2:E:144:ARG:HD2	2.21	0.55
2:H:99:GLU:HG3	2:H:99:GLU:O	2.07	0.55
2:I:89:VAL:O	2:I:91:PHE:N	2.40	0.55
2:L:8:SER:O	2:L:10:THR:N	2.39	0.55
2:O:49:GLY:HA2	2:O:54:LEU:CD2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:473:GLN:O	3:W:477:VAL:HG23	2.06	0.55
3:W:584:ILE:HG13	3:W:585:GLN:O	2.06	0.55
1:A:510:LEU:HD22	1:A:540:LEU:CD1	2.26	0.55
1:A:563:MET:O	1:A:565:MET:N	2.40	0.55
1:B:113:PRO:HG2	1:B:609:ASN:HB3	1.89	0.55
1:B:122:LEU:HG	1:B:201:ASP:CG	2.27	0.55
1:B:160:TYR:OH	1:B:635:GLN:HG3	2.07	0.55
1:B:763:LEU:O	1:B:764:PRO:O	2.25	0.55
2:C:152:PHE:N	2:C:152:PHE:CD1	2.74	0.55
2:H:8:SER:O	2:H:10:THR:N	2.40	0.55
2:I:60:ASN:C	2:I:61:PHE:CD1	2.80	0.55
2:I:101:VAL:HB	2:I:355:ILE:HG21	1.88	0.55
2:I:153:HIS:NE2	2:J:153:HIS:CD2	2.75	0.55
2:J:38:ILE:HG22	2:J:42:ASN:ND2	2.22	0.55
2:K:35:ASN:HA	2:K:38:ILE:CD1	2.37	0.55
3:W:559:ASN:HA	3:W:562:LYS:NZ	2.22	0.55
3:W:952:SER:OG	3:W:1071:TRP:HE3	1.90	0.55
1:B:787:VAL:O	1:B:788:LYS:C	2.46	0.55
2:G:8:SER:O	2:G:10:THR:N	2.40	0.55
2:L:10:THR:O	2:L:14:ALA:HB2	2.06	0.55
2:L:116:LEU:CD1	2:L:119:LEU:HD12	2.37	0.55
2:M:99:GLU:HG3	2:M:99:GLU:O	2.07	0.55
3:W:449:LEU:HD21	3:W:461:ILE:CD1	2.37	0.55
1:A:500:GLY:O	1:A:502:VAL:N	2.36	0.55
1:B:360:ILE:N	1:B:360:ILE:HD12	2.22	0.55
1:B:654:VAL:O	1:B:656:ARG:N	2.39	0.55
1:B:698:LYS:O	1:B:699:ILE:CB	2.53	0.55
2:C:109:ILE:HG23	2:C:110:ALA:H	1.70	0.55
2:C:116:LEU:CD1	2:C:119:LEU:HD12	2.36	0.55
2:C:167:ASN:ND2	2:C:178:GLY:HA2	2.23	0.55
2:E:7:LEU:O	2:E:11:LEU:HG	2.07	0.55
2:F:144:ARG:O	2:F:145:ARG:CB	2.55	0.55
2:F:152:PHE:N	2:F:152:PHE:CD1	2.74	0.55
2:N:35:ASN:HA	2:N:38:ILE:HD12	1.89	0.55
3:W:864:PRO:O	3:W:865:VAL:HG12	2.07	0.55
1:A:142:LEU:O	1:A:143:ARG:HG2	2.08	0.54
1:A:525:TYR:O	1:A:529:ILE:HG13	2.05	0.54
1:A:705:ILE:HG22	1:A:757:VAL:O	2.07	0.54
1:A:717:MET:HE1	1:A:830:PRO:O	2.07	0.54
1:B:195:ASP:O	1:B:197:GLY:N	2.39	0.54
1:B:245:LEU:HD12	1:B:250:TYR:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:116:LEU:HD12	2:E:119:LEU:HD12	1.88	0.54
2:J:131:ASN:N	2:J:131:ASN:HD22	2.04	0.54
2:L:82:ARG:NH1	2:N:144:ARG:HD2	2.22	0.54
2:N:8:SER:O	2:N:10:THR:N	2.40	0.54
3:W:536:LYS:O	3:W:540:MET:HG3	2.07	0.54
1:A:742:GLY:HA3	1:B:285:ILE:HD11	1.89	0.54
1:B:388:SER:O	1:B:389:GLN:HB2	2.07	0.54
1:B:779:ASP:HA	1:B:798:ILE:HG13	1.89	0.54
2:C:22:THR:HB	2:E:128:ASN:O	2.08	0.54
2:C:135:TYR:OH	2:C:340:GLU:OE1	2.24	0.54
2:D:144:ARG:HD2	2:E:82:ARG:CZ	2.36	0.54
2:G:35:ASN:HA	2:G:38:ILE:HD12	1.89	0.54
2:I:8:SER:O	2:I:10:THR:N	2.40	0.54
2:I:124:PHE:O	2:I:126:ARG:N	2.39	0.54
2:I:153:HIS:CD2	2:K:153:HIS:NE2	2.75	0.54
2:J:35:ASN:HA	2:J:38:ILE:CD1	2.37	0.54
2:O:35:ASN:HA	2:O:38:ILE:CD1	2.37	0.54
3:W:186:ASN:ND2	3:W:190:ARG:H	2.06	0.54
3:W:346:GLN:HG2	3:W:586:TYR:CZ	2.42	0.54
3:W:398:SER:HA	3:W:838:LYS:HE2	1.90	0.54
3:W:476:VAL:O	3:W:480:MET:HG3	2.07	0.54
3:W:582:LYS:HG2	3:W:583:LYS:H	1.71	0.54
1:A:120:THR:HA	1:A:186:MET:HE1	1.88	0.54
1:A:151:LYS:O	1:A:152:LYS:HB2	2.06	0.54
1:A:166:PHE:CE2	1:A:689:MET:HG3	2.42	0.54
1:A:393:SER:HB2	1:A:573:THR:HG21	1.90	0.54
1:A:717:MET:SD	1:A:829:VAL:HG22	2.47	0.54
1:A:730:PHE:CD1	1:A:730:PHE:N	2.75	0.54
1:A:863:VAL:HG12	1:A:864:GLU:N	2.22	0.54
1:A:871:PHE:O	1:A:871:PHE:CD1	2.60	0.54
2:E:35:ASN:HA	2:E:38:ILE:CD1	2.37	0.54
2:H:116:LEU:CD1	2:H:119:LEU:HD12	2.38	0.54
2:H:150:PHE:HB2	2:H:152:PHE:CE1	2.43	0.54
2:I:49:GLY:HA2	2:I:54:LEU:HD21	1.90	0.54
2:M:8:SER:O	2:M:10:THR:N	2.40	0.54
2:O:116:LEU:CD1	2:O:119:LEU:HD12	2.37	0.54
2:O:144:ARG:O	2:O:146:GLN:N	2.41	0.54
3:W:8:LEU:HD12	3:W:737:MET:CG	2.31	0.54
3:W:166:ARG:HG2	3:W:166:ARG:HH11	1.72	0.54
3:W:449:LEU:HD11	3:W:461:ILE:HD12	1.89	0.54
1:A:111:ILE:O	1:A:111:ILE:HG23	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:643:GLU:HG2	1:A:662:MET:CE	2.37	0.54
1:B:404:LEU:O	1:B:407:GLY:N	2.40	0.54
2:C:8:SER:O	2:C:10:THR:N	2.40	0.54
2:C:16:ASP:HB3	2:E:131:ASN:O	2.06	0.54
2:D:110:ALA:HB1	2:D:111:PRO:HD2	1.89	0.54
2:F:65:LEU:O	2:F:66:LEU:HD23	2.08	0.54
2:N:42:ASN:HA	2:N:61:PHE:HB2	1.88	0.54
3:W:186:ASN:HD22	3:W:186:ASN:N	1.96	0.54
3:W:491:ALA:HB2	3:W:627:ARG:HD2	1.88	0.54
1:A:530:GLN:HA	1:A:533:ILE:CD1	2.37	0.54
1:A:633:LEU:C	1:A:635:GLN:H	2.11	0.54
1:A:663:TYR:O	1:A:666:ARG:HG2	2.08	0.54
1:B:323:THR:O	1:B:326:TYR:HB3	2.08	0.54
1:B:326:TYR:CD1	1:B:384:ALA:CB	2.91	0.54
1:B:370:ILE:O	1:B:373:GLN:HB3	2.08	0.54
1:B:481:ARG:HG2	2:I:65:LEU:HD12	1.89	0.54
1:B:506:LEU:HD21	1:B:543:LEU:C	2.27	0.54
2:E:10:THR:O	2:E:14:ALA:HB2	2.07	0.54
2:F:35:ASN:HA	2:F:38:ILE:HD12	1.90	0.54
2:H:74:ASP:OD2	2:H:76:ASN:HB3	2.07	0.54
3:W:134:ILE:HG13	3:W:698:ASN:OD1	2.08	0.54
3:W:772:ILE:CD1	3:W:1047:LYS:HB2	2.37	0.54
1:B:666:ARG:HG3	1:B:667:ASP:N	2.20	0.54
2:E:116:LEU:CD1	2:E:119:LEU:HD12	2.38	0.54
2:E:167:ASN:ND2	2:E:178:GLY:HA2	2.22	0.54
2:I:167:ASN:ND2	2:I:178:GLY:HA2	2.22	0.54
2:J:7:LEU:O	2:J:11:LEU:HG	2.06	0.54
2:N:110:ALA:HB1	2:N:111:PRO:CD	2.37	0.54
2:O:158:PHE:HE2	2:O:214:LEU:HD22	1.73	0.54
3:W:248:MET:HE2	3:W:252:VAL:HG12	1.89	0.54
3:W:364:THR:OG1	3:W:533:PRO:HB3	2.07	0.54
1:A:217:THR:HG22	1:A:217:THR:O	2.07	0.54
1:A:501:HIS:C	1:A:503:ILE:H	2.09	0.54
1:B:428:GLN:HG2	1:B:429:LEU:H	1.71	0.54
1:B:875:ARG:CD	1:B:878:ASN:HD22	2.20	0.54
2:C:14:ALA:C	2:C:16:ASP:H	2.10	0.54
2:C:35:ASN:HA	2:C:38:ILE:CD1	2.38	0.54
2:D:14:ALA:C	2:D:16:ASP:H	2.11	0.54
2:H:35:ASN:HA	2:H:38:ILE:HD12	1.89	0.54
2:I:106:ARG:H	2:I:106:ARG:HD3	1.72	0.54
2:J:99:GLU:HG3	2:J:99:GLU:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:139:TRP:HE1	2:M:143:ASN:ND2	2.04	0.54
2:O:14:ALA:C	2:O:16:ASP:H	2.11	0.54
3:W:195:VAL:HG23	3:W:196:MET:H	1.73	0.54
3:W:473:GLN:HB3	3:W:594:LYS:HB3	1.90	0.54
3:W:816:SER:HB3	3:W:820:LEU:CD1	2.38	0.54
3:W:1082:ASN:O	3:W:1084:ASN:N	2.40	0.54
1:A:311:HIS:HB3	1:A:318:TRP:NE1	2.23	0.54
1:A:645:PHE:HD2	1:A:646:LEU:HD23	1.72	0.54
1:A:650:HIS:O	1:A:651:ILE:CB	2.56	0.54
1:A:701:GLN:HG2	1:A:826:TYR:CE2	2.43	0.54
1:A:738:LEU:C	1:A:740:ARG:N	2.62	0.54
1:B:501:HIS:C	1:B:503:ILE:N	2.60	0.54
2:F:158:PHE:HE2	2:F:214:LEU:HD22	1.73	0.54
2:K:14:ALA:C	2:K:16:ASP:H	2.11	0.54
2:M:167:ASN:ND2	2:M:178:GLY:HA2	2.23	0.54
3:W:573:VAL:CG1	3:W:575:ILE:HG13	2.38	0.54
3:W:736:ILE:O	3:W:740:THR:HG23	2.07	0.54
1:A:178:PRO:HD2	1:A:256:PHE:CE2	2.43	0.54
1:B:427:CYS:O	1:B:431:ILE:HG13	2.08	0.54
1:B:771:VAL:CG1	1:B:772:ILE:N	2.71	0.54
2:D:167:ASN:ND2	2:D:178:GLY:HA2	2.23	0.54
2:G:116:LEU:CD1	2:G:119:LEU:HD12	2.38	0.54
2:K:158:PHE:HE2	2:K:214:LEU:HD22	1.73	0.54
2:L:72:ASN:ND2	2:N:126:ARG:NH1	2.56	0.54
2:L:128:ASN:O	2:M:22:THR:HB	2.08	0.54
1:A:273:TYR:O	1:A:273:TYR:CD2	2.61	0.54
1:A:298:TYR:O	1:A:299:ILE:HB	2.06	0.54
1:B:457:GLN:CB	1:B:476:ASN:ND2	2.63	0.54
1:B:653:ASP:O	1:B:654:VAL:C	2.46	0.54
2:C:67:GLY:C	2:C:69:THR:H	2.09	0.54
2:D:35:ASN:HA	2:D:38:ILE:HD12	1.89	0.54
2:I:7:LEU:O	2:I:11:LEU:HG	2.08	0.54
2:J:27:VAL:O	2:J:30:LEU:N	2.40	0.54
2:M:116:LEU:CD1	2:M:119:LEU:HD12	2.37	0.54
2:N:167:ASN:ND2	2:N:178:GLY:HA2	2.22	0.54
1:A:804:SER:HB2	1:A:810:TYR:HA	1.89	0.53
1:B:125:ILE:N	1:B:125:ILE:CD1	2.71	0.53
1:B:125:ILE:HB	1:B:126:PHE:CD2	2.43	0.53
1:B:393:SER:CB	1:B:573:THR:HG21	2.38	0.53
1:B:457:GLN:O	1:B:458:ILE:HG13	2.08	0.53
1:B:503:ILE:HD13	1:B:544:VAL:HG12	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:862:THR:HG22	1:B:863:VAL:O	2.09	0.53
2:E:74:ASP:OD2	2:E:76:ASN:HB3	2.08	0.53
2:F:116:LEU:CD1	2:F:119:LEU:HD12	2.38	0.53
2:G:22:THR:OG1	2:G:26:ASN:ND2	2.41	0.53
2:G:150:PHE:HB2	2:G:152:PHE:CE1	2.43	0.53
2:H:23:LEU:N	2:H:26:ASN:ND2	2.57	0.53
2:H:135:TYR:OH	2:H:340:GLU:OE1	2.25	0.53
2:I:158:PHE:HE2	2:I:214:LEU:HD22	1.73	0.53
2:K:116:LEU:HD12	2:K:119:LEU:HD12	1.89	0.53
2:M:35:ASN:HA	2:M:38:ILE:CD1	2.38	0.53
3:W:186:ASN:HD21	3:W:190:ARG:N	2.05	0.53
3:W:410:PHE:HD1	3:W:807:THR:HG21	1.73	0.53
1:A:306:ASP:C	1:A:308:LEU:N	2.56	0.53
1:B:252:PHE:O	1:B:254:GLU:N	2.40	0.53
1:B:467:GLN:HB3	1:B:512:GLN:HG2	1.90	0.53
2:G:46:PHE:CE2	2:G:119:LEU:HD21	2.43	0.53
2:G:128:ASN:HB3	2:H:19:VAL:CG2	2.37	0.53
2:K:150:PHE:HB2	2:K:152:PHE:CZ	2.42	0.53
2:K:167:ASN:ND2	2:K:178:GLY:HA2	2.22	0.53
2:L:153:HIS:NE2	2:N:153:HIS:NE2	2.55	0.53
2:N:14:ALA:C	2:N:16:ASP:H	2.10	0.53
2:N:89:VAL:O	2:N:91:PHE:N	2.41	0.53
3:W:222:ASP:OD1	3:W:324:LYS:HD3	2.08	0.53
3:W:796:SER:OG	3:W:845:ILE:HG23	2.09	0.53
1:B:140:LYS:C	1:B:142:LEU:N	2.60	0.53
1:B:449:ASN:HD21	1:B:455:PRO:CG	2.21	0.53
2:C:158:PHE:HE2	2:C:214:LEU:HD22	1.73	0.53
2:D:70:LEU:HD12	2:D:71:LEU:H	1.74	0.53
2:G:130:ASP:HA	2:H:17:LYS:HG2	1.90	0.53
2:K:215:ARG:HG3	2:K:371:ILE:O	2.09	0.53
2:N:49:GLY:HA2	2:N:54:LEU:CD2	2.39	0.53
2:N:158:PHE:HE2	2:N:214:LEU:HD22	1.73	0.53
2:O:24:TYR:O	2:O:27:VAL:HG22	2.09	0.53
1:A:503:ILE:HG22	1:A:506:LEU:H	1.73	0.53
1:A:705:ILE:O	1:A:705:ILE:HG12	2.07	0.53
1:B:211:ILE:O	1:B:213:GLN:N	2.41	0.53
2:D:99:GLU:CD	2:D:116:LEU:HD22	2.28	0.53
2:E:116:LEU:HA	2:E:119:LEU:CD1	2.38	0.53
2:F:99:GLU:HG3	2:F:99:GLU:O	2.08	0.53
2:I:35:ASN:HA	2:I:38:ILE:CD1	2.38	0.53
2:J:150:PHE:HB2	2:J:152:PHE:CZ	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:38:ILE:O	2:L:42:ASN:OD1	2.27	0.53
2:O:215:ARG:HG3	2:O:371:ILE:O	2.09	0.53
3:W:221:ASP:O	3:W:225:ILE:HG13	2.09	0.53
3:W:240:LEU:O	3:W:244:VAL:HG23	2.09	0.53
1:A:542:GLN:O	1:A:545:ASP:HB2	2.08	0.53
1:A:771:VAL:O	1:A:772:ILE:C	2.46	0.53
1:B:94:THR:HG23	1:B:658:PRO:HG3	1.90	0.53
1:B:122:LEU:HD11	1:B:200:VAL:HG12	1.88	0.53
1:B:170:TYR:CE1	1:B:681:ILE:CG2	2.92	0.53
1:B:182:LEU:HD23	1:B:183:LEU:N	2.15	0.53
1:B:199:VAL:HG12	1:B:200:VAL:H	1.70	0.53
1:B:246:HIS:CE1	1:B:247:PRO:HD2	2.44	0.53
1:B:361:GLN:NE2	3:W:624:LYS:NZ	2.54	0.53
1:B:497:ILE:HG23	2:I:68:THR:HG23	1.89	0.53
2:D:144:ARG:HD2	2:E:82:ARG:NH1	2.23	0.53
2:G:99:GLU:O	2:G:99:GLU:HG3	2.09	0.53
2:H:158:PHE:HE2	2:H:214:LEU:HD22	1.73	0.53
2:I:215:ARG:HG3	2:I:371:ILE:O	2.09	0.53
2:J:116:LEU:HA	2:J:119:LEU:CD1	2.38	0.53
2:L:63:PHE:N	2:L:63:PHE:CD1	2.75	0.53
2:L:158:PHE:HE2	2:L:214:LEU:HD22	1.73	0.53
2:N:215:ARG:HG3	2:N:371:ILE:O	2.09	0.53
3:W:293:ASP:O	3:W:297:LYS:HG2	2.08	0.53
3:W:387:ARG:HB3	3:W:387:ARG:NH1	2.22	0.53
3:W:873:THR:HA	3:W:1073:ILE:HG23	1.89	0.53
1:A:311:HIS:NE2	1:A:566:GLN:NE2	2.54	0.53
1:A:546:LEU:HD22	1:A:584:LEU:HD21	1.90	0.53
1:A:560:CYS:CB	1:A:603:TYR:HD2	2.21	0.53
1:B:133:ILE:HD11	1:B:147:TYR:CE1	2.43	0.53
1:B:200:VAL:HB	1:B:204:THR:HG21	1.89	0.53
1:B:298:TYR:CD1	1:B:299:ILE:N	2.75	0.53
1:B:428:GLN:CG	1:B:456:PHE:HD1	2.21	0.53
1:B:498:ARG:HG3	1:B:505:GLN:HE22	1.73	0.53
1:B:770:SER:HB3	1:B:772:ILE:HG22	1.90	0.53
3:W:12:LEU:HD22	3:W:16:TYR:HE2	1.73	0.53
3:W:864:PRO:HB3	3:W:867:PHE:HE2	1.73	0.53
1:A:642:VAL:HG13	1:A:665:LEU:HD23	1.90	0.53
2:D:116:LEU:HA	2:D:119:LEU:CD1	2.39	0.53
2:E:158:PHE:HE2	2:E:214:LEU:HD22	1.73	0.53
2:G:158:PHE:HE2	2:G:214:LEU:HD22	1.73	0.53
2:J:158:PHE:HE2	2:J:214:LEU:HD22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:131:ASN:HD22	2:K:131:ASN:N	2.05	0.53
2:L:215:ARG:HG3	2:L:371:ILE:O	2.09	0.53
2:N:35:ASN:HA	2:N:38:ILE:CD1	2.38	0.53
2:O:167:ASN:ND2	2:O:178:GLY:HA2	2.22	0.53
3:W:345:ASP:HB2	3:W:458:ARG:CZ	2.39	0.53
3:W:426:ASP:HB3	3:W:432:ARG:NH2	2.24	0.53
1:A:238:VAL:HG12	1:A:239:VAL:N	2.24	0.53
1:A:487:GLY:O	1:A:488:VAL:HG23	2.08	0.53
1:A:491:GLN:HB3	1:A:564:ASN:HB3	1.90	0.53
1:A:647:LYS:C	1:A:649:LEU:H	2.12	0.53
1:B:400:ASN:ND2	1:B:403:SER:OG	2.41	0.53
1:B:436:ILE:O	1:B:438:PRO:N	2.42	0.53
1:B:458:ILE:HD12	1:B:458:ILE:C	2.29	0.53
1:B:498:ARG:CB	2:I:32:GLN:NE2	2.66	0.53
1:B:577:GLN:C	1:B:579:THR:N	2.60	0.53
2:E:110:ALA:HB1	2:E:111:PRO:CD	2.39	0.53
2:F:14:ALA:C	2:F:16:ASP:H	2.11	0.53
2:F:144:ARG:HD2	2:G:82:ARG:CZ	2.38	0.53
2:I:99:GLU:HG3	2:I:99:GLU:O	2.09	0.53
2:I:116:LEU:HA	2:I:119:LEU:CD1	2.38	0.53
2:I:144:ARG:HD2	2:J:82:ARG:NH1	2.24	0.53
2:O:74:ASP:OD2	2:O:76:ASN:HB3	2.09	0.53
3:W:7:ILE:HA	3:W:10:GLU:OE1	2.08	0.53
3:W:985:LYS:NZ	3:W:985:LYS:HB3	2.24	0.53
1:A:271:PHE:O	1:A:274:ILE:HD12	2.08	0.53
1:A:325:ASN:O	1:A:328:LEU:HB3	2.09	0.53
1:A:550:LEU:O	1:A:551:ALA:C	2.47	0.53
1:A:771:VAL:HA	1:A:802:ILE:HD11	1.91	0.53
1:A:853:ASP:O	1:A:854:LEU:CB	2.56	0.53
1:A:876:ILE:HG22	1:A:877:MET:HG2	1.89	0.53
1:B:371:ASN:C	1:B:373:GLN:H	2.11	0.53
1:B:548:ARG:HD3	1:B:877:MET:H	1.73	0.53
1:B:755:GLN:O	1:B:757:VAL:HG23	2.08	0.53
1:B:786:ILE:O	1:B:788:LYS:N	2.41	0.53
2:C:215:ARG:HG3	2:C:371:ILE:O	2.09	0.53
2:H:167:ASN:ND2	2:H:178:GLY:HA2	2.23	0.53
2:H:215:ARG:HG3	2:H:371:ILE:O	2.09	0.53
2:K:46:PHE:CE2	2:K:119:LEU:HD21	2.41	0.53
2:K:65:LEU:C	2:K:66:LEU:HG	2.29	0.53
2:K:116:LEU:CD1	2:K:119:LEU:HD12	2.39	0.53
2:M:145:ARG:NH1	2:M:145:ARG:CB	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:158:PHE:HE2	2:M:214:LEU:HD22	1.74	0.53
2:N:31:ILE:O	2:N:34:PHE:HB3	2.09	0.53
2:O:89:VAL:O	2:O:91:PHE:N	2.42	0.53
3:W:161:LYS:CB	3:W:165:ARG:HH12	2.21	0.53
3:W:232:LEU:HD21	3:W:299:GLY:HA3	1.90	0.53
3:W:519:THR:CG2	3:W:520:ASP:H	2.21	0.53
3:W:627:ARG:HG2	3:W:627:ARG:NH1	2.16	0.53
1:A:661:GLN:NE2	1:B:348:LYS:HZ2	2.06	0.53
1:B:182:LEU:CD2	1:B:183:LEU:N	2.71	0.53
1:B:387:LEU:O	1:B:389:GLN:N	2.42	0.53
1:B:501:HIS:ND1	1:B:548:ARG:HG2	2.24	0.53
1:B:508:GLU:OE2	2:J:70:LEU:HD23	2.09	0.53
1:B:642:VAL:O	1:B:645:PHE:HB3	2.09	0.53
1:B:654:VAL:HG12	1:B:655:ALA:N	2.24	0.53
1:B:708:ARG:O	1:B:710:MET:N	2.42	0.53
2:D:35:ASN:HA	2:D:38:ILE:CD1	2.39	0.53
2:F:167:ASN:ND2	2:F:178:GLY:HA2	2.22	0.53
2:G:215:ARG:HG3	2:G:371:ILE:O	2.09	0.53
2:J:215:ARG:HG3	2:J:371:ILE:O	2.09	0.53
2:M:215:ARG:HG3	2:M:371:ILE:O	2.09	0.53
2:O:99:GLU:O	2:O:99:GLU:HG3	2.09	0.53
3:W:109:TYR:HA	3:W:118:LEU:CD2	2.39	0.53
3:W:421:ASN:OD1	3:W:422:MET:N	2.42	0.53
1:A:297:ARG:HG3	1:A:848:PHE:CE2	2.43	0.52
1:A:323:THR:O	1:A:326:TYR:HB3	2.08	0.52
1:A:401:TYR:CD1	1:A:401:TYR:N	2.75	0.52
1:A:428:GLN:CD	1:A:456:PHE:HB2	2.27	0.52
1:A:606:VAL:O	1:A:607:ASN:C	2.46	0.52
1:A:721:VAL:CG1	1:A:799:LEU:HD22	2.39	0.52
1:A:794:THR:O	1:A:794:THR:HG22	2.08	0.52
1:B:437:TYR:HD2	1:B:443:GLN:HB3	1.73	0.52
1:B:499:ASN:O	1:B:500:GLY:O	2.27	0.52
1:B:504:ASN:O	1:B:505:GLN:C	2.46	0.52
1:B:654:VAL:O	1:B:657:VAL:HG23	2.08	0.52
1:B:742:GLY:O	1:B:744:TYR:CE2	2.62	0.52
2:I:14:ALA:C	2:I:16:ASP:H	2.11	0.52
2:J:129:PHE:CD1	2:J:129:PHE:C	2.82	0.52
2:J:139:TRP:C	2:J:139:TRP:CD1	2.83	0.52
2:K:89:VAL:O	2:K:91:PHE:N	2.43	0.52
2:L:152:PHE:N	2:L:152:PHE:CD1	2.77	0.52
3:W:168:ASP:O	3:W:171:THR:HB	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:255:TYR:O	1:A:259:HIS:HB3	2.08	0.52
1:A:424:LEU:HD12	1:A:424:LEU:O	2.08	0.52
1:A:618:ILE:HD13	1:A:645:PHE:CZ	2.44	0.52
1:A:722:ASN:C	1:A:723:ILE:HG13	2.29	0.52
1:B:135:ARG:O	1:B:138:GLY:N	2.43	0.52
1:B:326:TYR:CE1	1:B:384:ALA:HB3	2.44	0.52
1:B:466:PHE:O	1:B:467:GLN:C	2.47	0.52
1:B:663:TYR:O	1:B:666:ARG:HG2	2.09	0.52
2:L:61:PHE:O	2:L:62:ASP:HB3	2.07	0.52
2:M:48:THR:O	2:M:56:ILE:HA	2.10	0.52
3:W:420:LYS:HA	3:W:423:HIS:CD2	2.44	0.52
1:A:329:ALA:O	1:A:333:VAL:HG23	2.10	0.52
1:A:340:VAL:HB	1:A:587:LEU:CD2	2.39	0.52
1:A:658:PRO:HB2	1:A:660:ASP:OD1	2.09	0.52
1:B:311:HIS:CD2	1:B:566:GLN:OE1	2.62	0.52
1:B:525:TYR:O	1:B:529:ILE:HG13	2.08	0.52
2:C:381:ASN:O	2:C:385:VAL:HB	2.10	0.52
2:D:42:ASN:HA	2:D:61:PHE:HB2	1.92	0.52
2:D:158:PHE:HE2	2:D:214:LEU:HD22	1.74	0.52
2:D:215:ARG:HG3	2:D:371:ILE:O	2.09	0.52
2:E:14:ALA:C	2:E:16:ASP:H	2.11	0.52
2:H:150:PHE:HB2	2:H:152:PHE:CZ	2.44	0.52
2:M:101:VAL:HG23	2:M:102:ARG:N	2.24	0.52
2:M:116:LEU:HA	2:M:119:LEU:CD1	2.38	0.52
2:O:110:ALA:HB1	2:O:111:PRO:HD2	1.90	0.52
2:O:116:LEU:HA	2:O:119:LEU:CD1	2.39	0.52
3:W:496:GLN:HB3	3:W:920:GLN:HB2	1.91	0.52
3:W:823:LYS:HE2	3:W:825:ASN:OD1	2.09	0.52
1:A:200:VAL:O	1:A:204:THR:OG1	2.17	0.52
1:A:326:TYR:CD1	1:A:384:ALA:CB	2.92	0.52
1:A:361:GLN:HG3	1:A:362:SER:H	1.75	0.52
1:A:555:GLU:OE2	1:A:871:PHE:CE2	2.63	0.52
1:B:418:MET:HB3	1:B:567:HIS:NE2	2.24	0.52
1:B:431:ILE:O	1:B:435:ILE:HB	2.09	0.52
1:B:689:MET:HA	1:B:692:ILE:HD13	1.91	0.52
2:D:24:TYR:CZ	2:D:68:THR:HG22	2.44	0.52
2:G:35:ASN:HA	2:G:38:ILE:CD1	2.39	0.52
2:I:74:ASP:OD2	2:I:76:ASN:HB3	2.08	0.52
2:J:150:PHE:HB2	2:J:152:PHE:HE1	1.73	0.52
2:L:167:ASN:ND2	2:L:178:GLY:HA2	2.22	0.52
2:M:31:ILE:O	2:M:34:PHE:HB3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:23:LEU:HB3	2:O:26:ASN:HD21	1.73	0.52
3:W:879:ARG:HH11	3:W:879:ARG:HG3	1.75	0.52
1:A:314:PHE:O	1:A:315:GLU:C	2.48	0.52
1:A:421:ARG:O	1:A:425:VAL:HG23	2.10	0.52
1:A:742:GLY:O	1:A:743:ASP:O	2.28	0.52
1:A:872:ASP:OD2	1:A:874:MET:HB2	2.10	0.52
1:B:277:ARG:NH1	1:B:559:ALA:HB2	2.25	0.52
1:B:340:VAL:O	1:B:587:LEU:HD11	2.09	0.52
2:D:74:ASP:OD2	2:D:76:ASN:HB3	2.09	0.52
2:F:150:PHE:HB2	2:F:152:PHE:CZ	2.44	0.52
2:F:381:ASN:O	2:F:385:VAL:HB	2.10	0.52
2:G:381:ASN:O	2:G:385:VAL:HB	2.10	0.52
2:K:53:ASN:ND2	2:K:354:ALA:HB3	2.25	0.52
2:L:8:SER:C	2:L:10:THR:H	2.13	0.52
2:N:116:LEU:HA	2:N:119:LEU:CD1	2.39	0.52
3:W:321:LEU:O	3:W:325:ILE:HG12	2.10	0.52
3:W:573:VAL:HG12	3:W:575:ILE:HG13	1.91	0.52
3:W:967:ILE:H	3:W:967:ILE:CD1	2.23	0.52
1:A:286:LEU:O	1:A:287:ASN:HB2	2.09	0.52
1:A:464:GLN:O	1:A:465:ASN:HB2	2.08	0.52
1:B:396:PHE:CD1	1:B:396:PHE:C	2.83	0.52
1:B:527:ARG:O	1:B:531:ARG:HG2	2.08	0.52
1:B:527:ARG:HG3	1:B:527:ARG:HH11	1.74	0.52
1:B:558:MET:O	1:B:561:VAL:HG23	2.09	0.52
1:B:763:LEU:HD22	1:B:764:PRO:HD2	1.92	0.52
1:B:811:LEU:N	1:B:811:LEU:HD23	2.24	0.52
2:E:215:ARG:HG3	2:E:371:ILE:O	2.09	0.52
2:F:215:ARG:HG3	2:F:371:ILE:O	2.09	0.52
2:G:7:LEU:O	2:G:11:LEU:HG	2.09	0.52
2:H:57:ARG:NH1	2:H:94:ASN:HD21	2.07	0.52
2:M:21:GLY:O	2:M:22:THR:O	2.28	0.52
2:O:107:ASN:CG	2:O:107:ASN:O	2.48	0.52
3:W:538:ILE:HD13	3:W:595:GLN:OE1	2.10	0.52
3:W:744:ILE:HD12	3:W:744:ILE:N	2.24	0.52
3:W:820:LEU:HD13	3:W:824:ASN:HB2	1.91	0.52
1:A:721:VAL:HG13	1:A:800:TYR:C	2.29	0.52
1:A:803:ASN:C	1:A:805:ASP:N	2.63	0.52
1:B:211:ILE:O	1:B:212:PHE:C	2.48	0.52
1:B:326:TYR:HD1	1:B:384:ALA:HB1	1.75	0.52
1:B:570:THR:HG22	1:B:571:LEU:H	1.75	0.52
1:B:632:ASN:O	1:B:634:TYR:N	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:8:SER:C	2:D:10:THR:H	2.13	0.52
2:F:5:TYR:HE2	2:F:131:ASN:HA	1.75	0.52
2:F:129:PHE:CD1	2:F:129:PHE:C	2.83	0.52
2:G:14:ALA:C	2:G:16:ASP:H	2.11	0.52
2:I:14:ALA:O	2:I:18:ILE:HD12	2.10	0.52
2:J:167:ASN:ND2	2:J:178:GLY:HA2	2.23	0.52
2:J:381:ASN:O	2:J:385:VAL:HB	2.10	0.52
2:K:381:ASN:O	2:K:385:VAL:HB	2.10	0.52
2:L:381:ASN:O	2:L:385:VAL:HB	2.10	0.52
2:N:12:LYS:O	2:N:14:ALA:N	2.43	0.52
2:N:381:ASN:O	2:N:385:VAL:HB	2.10	0.52
2:O:381:ASN:O	2:O:385:VAL:HB	2.10	0.52
3:W:114:MET:HB2	3:W:117:GLU:HG2	1.92	0.52
3:W:428:MET:SD	3:W:811:TYR:HD1	2.32	0.52
3:W:564:THR:O	3:W:568:LEU:HG	2.09	0.52
1:A:786:ILE:O	1:A:789:LEU:N	2.43	0.52
1:B:550:LEU:O	1:B:551:ALA:C	2.49	0.52
1:B:812:VAL:HG23	1:B:817:TRP:CZ3	2.45	0.52
2:D:23:LEU:HD22	2:D:25:SER:OG	2.10	0.52
2:D:41:MET:O	2:D:42:ASN:C	2.47	0.52
2:L:31:ILE:O	2:L:34:PHE:HB3	2.10	0.52
2:M:89:VAL:O	2:M:91:PHE:N	2.43	0.52
1:A:163:ARG:NH2	1:A:736:GLU:OE2	2.42	0.52
1:A:323:THR:OG1	1:A:390:ARG:NH1	2.43	0.52
1:A:467:GLN:HB3	1:A:512:GLN:HG2	1.92	0.52
1:B:314:PHE:N	1:B:314:PHE:CD1	2.77	0.52
1:B:444:ARG:HH22	1:B:520:THR:HA	1.75	0.52
1:B:540:LEU:HA	1:B:543:LEU:HB2	1.92	0.52
1:B:723:ILE:CG2	1:B:724:ALA:H	2.13	0.52
2:H:14:ALA:C	2:H:16:ASP:H	2.11	0.52
2:H:139:TRP:CD1	2:H:139:TRP:C	2.83	0.52
2:K:99:GLU:O	2:K:99:GLU:HG3	2.10	0.52
2:L:35:ASN:HA	2:L:38:ILE:CD1	2.39	0.52
2:L:106:ARG:HD3	2:L:106:ARG:N	2.17	0.52
2:L:110:ALA:HB1	2:L:111:PRO:HD2	1.92	0.52
2:M:8:SER:C	2:M:10:THR:H	2.13	0.52
2:M:14:ALA:C	2:M:16:ASP:H	2.11	0.52
3:W:772:ILE:HG23	3:W:1043:ASN:HD22	1.75	0.52
1:B:293:PRO:C	1:B:295:THR:N	2.60	0.52
2:F:35:ASN:HA	2:F:38:ILE:CD1	2.40	0.52
2:F:135:TYR:OH	2:F:340:GLU:OE1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:128:ASN:O	2:H:129:PHE:HB3	2.09	0.52
2:M:131:ASN:HD22	2:M:131:ASN:N	2.07	0.52
1:A:310:LEU:O	1:A:318:TRP:CD1	2.62	0.51
1:A:540:LEU:HD23	1:A:540:LEU:C	2.30	0.51
1:A:769:SER:O	1:A:771:VAL:N	2.43	0.51
1:B:235:ASP:O	1:B:236:ARG:HB2	2.10	0.51
1:B:286:LEU:HD22	1:B:286:LEU:N	2.25	0.51
1:B:322:THR:O	1:B:323:THR:C	2.48	0.51
1:B:530:GLN:HA	1:B:533:ILE:CD1	2.40	0.51
1:B:563:MET:HA	1:B:563:MET:CE	2.39	0.51
1:B:606:VAL:O	1:B:607:ASN:C	2.47	0.51
2:C:116:LEU:HA	2:C:119:LEU:CD1	2.40	0.51
2:J:89:VAL:O	2:J:91:PHE:N	2.43	0.51
2:M:27:VAL:CG2	2:M:31:ILE:HD11	2.40	0.51
2:O:133:SER:O	2:O:136:ILE:HG22	2.10	0.51
3:W:101:ASP:C	3:W:103:THR:H	2.13	0.51
3:W:880:ASP:O	3:W:883:PRO:HD2	2.10	0.51
1:A:125:ILE:N	1:A:125:ILE:CD1	2.63	0.51
1:A:269:ILE:HG21	1:A:298:TYR:HE2	1.76	0.51
1:A:431:ILE:HG23	1:A:435:ILE:HD12	1.91	0.51
1:B:378:CYS:SG	1:B:581:VAL:HA	2.50	0.51
1:B:422:GLU:O	1:B:425:VAL:N	2.43	0.51
2:C:27:VAL:O	2:C:30:LEU:N	2.38	0.51
2:D:105:GLN:NE2	2:D:359:PRO:O	2.43	0.51
2:H:145:ARG:O	2:H:146:GLN:HG3	2.10	0.51
2:I:139:TRP:CD1	2:I:139:TRP:C	2.84	0.51
2:J:11:LEU:O	2:J:15:ARG:N	2.39	0.51
2:K:74:ASP:OD2	2:K:76:ASN:HB3	2.10	0.51
3:W:177:ILE:HD13	3:W:203:LEU:HD11	1.90	0.51
3:W:227:LYS:O	3:W:231:VAL:HG23	2.10	0.51
3:W:408:LEU:HD12	3:W:408:LEU:N	2.24	0.51
3:W:808:PHE:O	3:W:812:VAL:HG23	2.09	0.51
1:A:259:HIS:HD1	1:A:260:GLN:N	2.07	0.51
1:A:326:TYR:CE1	1:A:384:ALA:HB3	2.45	0.51
1:A:647:LYS:O	1:A:649:LEU:N	2.43	0.51
1:B:133:ILE:HD11	1:B:147:TYR:HE1	1.76	0.51
2:C:24:TYR:OH	2:C:68:THR:HG22	2.10	0.51
2:D:6:SER:O	2:D:8:SER:N	2.44	0.51
2:E:135:TYR:OH	2:E:340:GLU:OE1	2.28	0.51
2:G:6:SER:HG	2:G:128:ASN:HA	1.72	0.51
2:H:76:ASN:N	2:J:76:ASN:HB2	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:148:THR:OG1	2:H:332:GLU:HG2	2.10	0.51
2:I:128:ASN:HD22	2:J:19:VAL:CB	2.21	0.51
2:K:41:MET:O	2:K:42:ASN:C	2.49	0.51
2:L:116:LEU:HA	2:L:119:LEU:CD1	2.40	0.51
2:M:381:ASN:O	2:M:385:VAL:HB	2.10	0.51
3:W:803:ALA:HA	3:W:808:PHE:CD2	2.46	0.51
1:A:420:ILE:HG12	1:A:423:SER:CB	2.38	0.51
1:A:519:PRO:O	1:A:520:THR:HG23	2.10	0.51
1:A:645:PHE:CD2	1:A:646:LEU:HD23	2.44	0.51
1:B:89:GLU:C	1:B:91:LEU:N	2.61	0.51
1:B:442:MET:SD	1:B:463:ILE:HA	2.49	0.51
1:B:460:GLU:HG3	1:B:473:HIS:HD2	1.76	0.51
1:B:498:ARG:HG3	1:B:505:GLN:NE2	2.26	0.51
1:B:498:ARG:CG	1:B:505:GLN:HE22	2.23	0.51
1:B:639:LYS:O	1:B:642:VAL:HG23	2.10	0.51
1:B:699:ILE:HG13	1:B:763:LEU:O	2.10	0.51
1:B:779:ASP:HA	1:B:798:ILE:CG1	2.39	0.51
2:C:74:ASP:OD2	2:C:76:ASN:HB3	2.11	0.51
2:D:381:ASN:O	2:D:385:VAL:HB	2.10	0.51
2:E:6:SER:O	2:E:8:SER:N	2.44	0.51
2:E:89:VAL:O	2:E:91:PHE:N	2.44	0.51
2:G:89:VAL:O	2:G:91:PHE:N	2.44	0.51
2:H:5:TYR:HE2	2:H:131:ASN:HA	1.75	0.51
3:W:1005:GLN:CG	3:W:1006:LEU:HD12	2.41	0.51
1:A:631:LEU:O	1:A:633:LEU:HD12	2.10	0.51
1:A:661:GLN:HG3	1:B:348:LYS:NZ	2.26	0.51
1:A:773:SER:HB3	1:A:778:LEU:HD12	1.91	0.51
1:B:104:ILE:HD12	1:B:327:ILE:HD12	1.92	0.51
1:B:548:ARG:HH11	1:B:878:ASN:N	2.04	0.51
1:B:594:ILE:C	1:B:594:ILE:CD1	2.79	0.51
1:B:705:ILE:HG22	1:B:707:TYR:CE1	2.45	0.51
2:D:89:VAL:O	2:D:91:PHE:N	2.43	0.51
2:D:139:TRP:C	2:D:139:TRP:CD1	2.84	0.51
2:H:31:ILE:O	2:H:34:PHE:HB3	2.11	0.51
2:K:155:PRO:O	2:K:186:SER:HB3	2.10	0.51
2:M:253:ILE:HD13	2:M:319:THR:HB	1.93	0.51
2:N:41:MET:O	2:N:42:ASN:C	2.49	0.51
2:N:133:SER:O	2:N:136:ILE:HG22	2.11	0.51
2:O:106:ARG:HD3	2:O:106:ARG:N	2.23	0.51
3:W:126:THR:OG1	3:W:128:SER:HB3	2.11	0.51
3:W:820:LEU:HD13	3:W:824:ASN:CB	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:252:PHE:O	1:A:254:GLU:N	2.44	0.51
1:A:427:CYS:O	1:A:431:ILE:HG13	2.11	0.51
1:A:443:GLN:NE2	1:A:521:MET:HB3	2.25	0.51
1:A:496:ASN:O	1:A:497:ILE:C	2.49	0.51
1:B:178:PRO:HD2	1:B:256:PHE:CE2	2.45	0.51
1:B:272:ASN:O	1:B:274:ILE:N	2.43	0.51
1:B:431:ILE:HG23	1:B:435:ILE:HD12	1.93	0.51
1:B:481:ARG:NH2	1:B:496:ASN:HD21	2.08	0.51
2:E:31:ILE:O	2:E:34:PHE:HB3	2.09	0.51
2:K:116:LEU:HA	2:K:119:LEU:CD1	2.41	0.51
2:L:89:VAL:O	2:L:91:PHE:N	2.43	0.51
3:W:582:LYS:CG	3:W:583:LYS:H	2.24	0.51
3:W:596:THR:O	3:W:600:ASN:HB2	2.10	0.51
3:W:1005:GLN:HG3	3:W:1006:LEU:HD12	1.92	0.51
1:A:158:GLY:O	1:A:162:VAL:HG23	2.09	0.51
1:A:159:ASP:O	1:A:162:VAL:HB	2.11	0.51
1:A:814:ASN:O	1:A:815:TYR:C	2.48	0.51
1:B:302:ASN:O	1:B:303:LEU:HD23	2.11	0.51
1:B:305:GLN:NE2	1:B:564:ASN:ND2	2.58	0.51
2:C:110:ALA:HB1	2:C:111:PRO:CD	2.41	0.51
2:D:360:VAL:O	2:D:378:ARG:HD3	2.11	0.51
2:F:8:SER:C	2:F:10:THR:H	2.14	0.51
2:F:109:ILE:CB	2:F:380:ASP:HB3	2.40	0.51
2:H:105:GLN:C	2:H:107:ASN:N	2.58	0.51
2:H:381:ASN:O	2:H:385:VAL:HB	2.10	0.51
2:J:253:ILE:HD13	2:J:319:THR:HB	1.92	0.51
2:K:106:ARG:HD3	2:K:106:ARG:N	2.17	0.51
2:K:253:ILE:HD13	2:K:319:THR:HB	1.93	0.51
2:O:31:ILE:O	2:O:34:PHE:HB3	2.11	0.51
2:O:54:LEU:HD12	2:O:55:PRO:HD2	1.93	0.51
2:O:253:ILE:HD13	2:O:319:THR:HB	1.93	0.51
3:W:41:PHE:HB2	3:W:62:TYR:CD1	2.45	0.51
3:W:166:ARG:HG2	3:W:166:ARG:NH1	2.25	0.51
3:W:410:PHE:HE2	3:W:415:ILE:HD11	1.76	0.51
1:A:326:TYR:HD1	1:A:384:ALA:HB1	1.75	0.51
1:A:793:ASP:C	1:A:795:LEU:N	2.63	0.51
1:B:481:ARG:CZ	1:B:496:ASN:OD1	2.59	0.51
1:B:491:GLN:HG3	1:B:491:GLN:O	2.10	0.51
1:B:658:PRO:HD2	1:B:661:GLN:HG3	1.93	0.51
2:C:42:ASN:HA	2:C:61:PHE:HB2	1.92	0.51
2:C:139:TRP:CD1	2:C:139:TRP:C	2.83	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:381:ASN:O	2:E:385:VAL:HB	2.10	0.51
2:F:23:LEU:HD11	2:H:36:GLN:OE1	2.10	0.51
2:F:360:VAL:O	2:F:378:ARG:HD3	2.11	0.51
2:G:111:PRO:HB3	2:G:116:LEU:CD2	2.41	0.51
2:H:35:ASN:HA	2:H:38:ILE:CD1	2.41	0.51
2:I:381:ASN:O	2:I:385:VAL:HB	2.10	0.51
2:J:12:LYS:O	2:J:14:ALA:N	2.43	0.51
2:J:360:VAL:O	2:J:378:ARG:HD3	2.11	0.51
2:L:14:ALA:C	2:L:16:ASP:H	2.12	0.51
2:L:99:GLU:O	2:L:99:GLU:HG3	2.10	0.51
2:M:24:TYR:O	2:M:26:ASN:N	2.44	0.51
2:M:106:ARG:HG2	2:M:107:ASN:H	1.75	0.51
2:M:109:ILE:HB	2:M:380:ASP:HB3	1.93	0.51
2:M:360:VAL:O	2:M:378:ARG:HD3	2.11	0.51
2:O:41:MET:O	2:O:42:ASN:C	2.49	0.51
3:W:343:ALA:CB	3:W:575:ILE:HD13	2.41	0.51
1:A:130:GLN:O	1:A:131:LEU:HB3	2.10	0.51
1:A:368:THR:O	1:A:368:THR:HG22	2.09	0.51
1:A:631:LEU:CB	1:A:633:LEU:HD13	2.38	0.51
1:B:577:GLN:C	1:B:579:THR:H	2.14	0.51
1:B:712:LEU:HD11	1:B:722:ASN:HB3	1.93	0.51
1:B:869:VAL:N	1:B:876:ILE:HG23	2.26	0.51
2:C:17:LYS:HG2	2:E:130:ASP:HA	1.92	0.51
2:C:89:VAL:O	2:C:91:PHE:N	2.43	0.51
2:F:89:VAL:O	2:F:91:PHE:N	2.44	0.51
2:G:253:ILE:HD13	2:G:319:THR:HB	1.93	0.51
2:G:360:VAL:O	2:G:378:ARG:HD3	2.11	0.51
2:L:139:TRP:CD1	2:L:139:TRP:C	2.84	0.51
3:W:330:PHE:CE1	3:W:690:ARG:NE	2.79	0.51
3:W:899:PHE:C	3:W:901:PRO:HD3	2.31	0.51
3:W:962:LEU:O	3:W:967:ILE:HD13	2.11	0.51
1:A:362:SER:HB2	1:A:365:GLN:HE22	1.72	0.51
1:A:501:HIS:C	1:A:503:ILE:N	2.62	0.51
1:A:527:ARG:O	1:A:531:ARG:HG2	2.10	0.51
1:A:546:LEU:HD11	1:A:584:LEU:HD23	1.93	0.51
1:A:618:ILE:O	1:A:622:VAL:HG23	2.11	0.51
1:A:701:GLN:O	1:A:761:GLY:O	2.29	0.51
1:B:140:LYS:HE2	1:B:805:ASP:OD2	2.10	0.51
2:C:128:ASN:HB3	2:D:19:VAL:HG23	1.93	0.51
2:F:63:PHE:CD2	2:F:84:THR:HG23	2.46	0.51
2:F:74:ASP:OD2	2:F:76:ASN:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:103:GLU:HG3	2:G:359:PRO:HD2	1.93	0.51
2:G:116:LEU:HA	2:G:119:LEU:CD1	2.40	0.51
2:J:153:HIS:NE2	2:K:153:HIS:NE2	2.59	0.51
2:N:60:ASN:C	2:N:61:PHE:CD1	2.84	0.51
2:O:8:SER:C	2:O:10:THR:H	2.14	0.51
2:O:23:LEU:HD23	2:O:23:LEU:C	2.31	0.51
3:W:659:TYR:CG	3:W:666:VAL:HG21	2.46	0.51
3:W:687:ILE:HG23	3:W:687:ILE:O	2.11	0.51
1:A:508:GLU:O	1:A:512:GLN:NE2	2.45	0.50
1:A:555:GLU:OE1	1:A:871:PHE:HD2	1.93	0.50
1:A:676:VAL:O	1:A:680:ASP:HB2	2.10	0.50
1:B:178:PRO:HD2	1:B:256:PHE:CD2	2.45	0.50
1:B:509:ALA:O	1:B:513:LEU:CG	2.50	0.50
1:B:539:ARG:O	1:B:542:GLN:N	2.44	0.50
1:B:805:ASP:C	1:B:807:ASN:N	2.65	0.50
2:C:49:GLY:HA2	2:C:54:LEU:HD23	1.93	0.50
2:C:129:PHE:C	2:C:129:PHE:CD1	2.85	0.50
2:F:253:ILE:HD13	2:F:319:THR:HB	1.93	0.50
2:H:12:LYS:O	2:H:14:ALA:N	2.44	0.50
2:H:116:LEU:HA	2:H:119:LEU:CD1	2.40	0.50
2:K:11:LEU:O	2:K:15:ARG:N	2.38	0.50
2:L:135:TYR:CZ	2:L:342:MET:HE3	2.45	0.50
2:N:135:TYR:OH	2:N:340:GLU:OE1	2.25	0.50
3:W:330:PHE:CZ	3:W:690:ARG:CZ	2.94	0.50
3:W:358:GLU:HG3	3:W:359:MET:H	1.76	0.50
1:A:452:PRO:O	1:A:453:GLN:CB	2.58	0.50
1:A:467:GLN:NE2	1:A:511:MET:HG2	2.25	0.50
1:B:182:LEU:HD11	1:B:847:THR:CA	2.40	0.50
1:B:392:MET:C	1:B:573:THR:HG23	2.32	0.50
1:B:449:ASN:ND2	1:B:455:PRO:CG	2.75	0.50
1:B:527:ARG:O	1:B:531:ARG:HG3	2.10	0.50
1:B:671:LEU:O	1:B:672:LEU:HD23	2.10	0.50
2:C:133:SER:O	2:C:136:ILE:HG22	2.12	0.50
2:D:155:PRO:O	2:D:186:SER:HB3	2.11	0.50
2:G:8:SER:C	2:G:10:THR:H	2.14	0.50
2:I:133:SER:O	2:I:136:ILE:HG22	2.11	0.50
2:K:360:VAL:O	2:K:378:ARG:HD3	2.11	0.50
2:L:23:LEU:HD11	2:N:36:GLN:HB2	1.92	0.50
3:W:703:GLN:NE2	3:W:703:GLN:H	2.08	0.50
1:A:520:THR:O	1:A:521:MET:HE3	2.11	0.50
1:B:298:TYR:HE1	1:B:300:ARG:HA	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:518:PHE:CB	1:B:519:PRO:CD	2.89	0.50
1:B:878:ASN:OD1	1:B:878:ASN:O	2.29	0.50
2:D:253:ILE:HD13	2:D:319:THR:HB	1.93	0.50
2:E:8:SER:C	2:E:10:THR:H	2.14	0.50
2:E:56:ILE:O	2:E:56:ILE:HG22	2.11	0.50
2:F:61:PHE:N	2:F:61:PHE:CD1	2.79	0.50
2:H:89:VAL:O	2:H:91:PHE:N	2.44	0.50
2:K:60:ASN:C	2:K:61:PHE:CD1	2.85	0.50
2:L:6:SER:O	2:L:8:SER:N	2.44	0.50
2:L:150:PHE:CD1	2:L:150:PHE:N	2.78	0.50
2:L:155:PRO:O	2:L:186:SER:HB3	2.11	0.50
2:N:8:SER:C	2:N:10:THR:H	2.14	0.50
2:N:23:LEU:O	2:N:26:ASN:ND2	2.43	0.50
3:W:892:LEU:HB2	3:W:1051:TRP:CD1	2.47	0.50
1:A:199:VAL:CG1	1:A:200:VAL:H	2.07	0.50
1:A:436:ILE:CD1	1:A:437:TYR:CD1	2.94	0.50
1:A:545:ASP:OD1	1:A:877:MET:HA	2.11	0.50
1:A:822:THR:O	1:A:823:THR:HG23	2.12	0.50
1:B:457:GLN:C	1:B:458:ILE:HG13	2.31	0.50
1:B:498:ARG:HD3	2:I:32:GLN:NE2	2.26	0.50
1:B:596:SER:O	1:B:599:THR:HB	2.11	0.50
1:B:712:LEU:HB2	1:B:819:PRO:HB2	1.94	0.50
2:C:12:LYS:O	2:C:14:ALA:N	2.45	0.50
2:G:6:SER:O	2:G:8:SER:N	2.44	0.50
2:G:31:ILE:O	2:G:34:PHE:HB3	2.11	0.50
2:H:253:ILE:HD13	2:H:319:THR:HB	1.93	0.50
2:I:31:ILE:O	2:I:34:PHE:HB3	2.11	0.50
2:L:133:SER:O	2:L:136:ILE:HG22	2.12	0.50
2:L:253:ILE:HD13	2:L:319:THR:HB	1.93	0.50
2:N:66:LEU:HD13	2:N:77:TYR:CZ	2.46	0.50
2:N:106:ARG:HG2	2:N:107:ASN:H	1.77	0.50
2:N:139:TRP:CD1	2:N:139:TRP:C	2.84	0.50
3:W:8:LEU:HA	3:W:737:MET:SD	2.52	0.50
3:W:54:SER:OG	3:W:55:LEU:N	2.44	0.50
3:W:385:LEU:HD13	3:W:939:VAL:CG2	2.42	0.50
1:A:389:GLN:OE1	1:A:567:HIS:HA	2.11	0.50
1:A:634:TYR:HD1	1:A:635:GLN:HG3	1.76	0.50
1:B:428:GLN:NE2	1:B:455:PRO:HB2	2.26	0.50
1:B:826:TYR:O	1:B:827:LYS:C	2.50	0.50
2:C:46:PHE:HE2	2:C:119:LEU:HD21	1.75	0.50
2:C:360:VAL:O	2:C:378:ARG:HD3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:12:LYS:O	2:D:14:ALA:N	2.45	0.50
2:D:100:MET:HG3	2:D:388:VAL:HG11	1.93	0.50
2:D:124:PHE:O	2:D:127:ILE:HG13	2.11	0.50
2:F:139:TRP:CD1	2:F:139:TRP:C	2.85	0.50
2:G:124:PHE:O	2:G:127:ILE:HG13	2.11	0.50
2:I:124:PHE:C	2:I:126:ARG:H	2.14	0.50
2:J:8:SER:C	2:J:10:THR:H	2.14	0.50
2:L:125:LYS:O	2:L:127:ILE:N	2.42	0.50
2:L:360:VAL:O	2:L:378:ARG:HD3	2.11	0.50
3:W:397:MET:HA	3:W:400:ALA:HB2	1.93	0.50
1:A:214:ASP:O	1:A:215:GLU:C	2.50	0.50
1:B:176:GLU:O	1:B:178:PRO:HD3	2.11	0.50
1:B:387:LEU:HD23	1:B:554:TYR:HE1	1.74	0.50
1:B:578:LEU:HA	1:B:581:VAL:CG2	2.42	0.50
2:C:14:ALA:C	2:C:16:ASP:N	2.65	0.50
2:E:139:TRP:CD1	2:E:139:TRP:C	2.84	0.50
2:E:150:PHE:CD1	2:E:150:PHE:N	2.80	0.50
2:E:151:THR:C	2:E:152:PHE:CD1	2.84	0.50
2:E:253:ILE:HD13	2:E:319:THR:HB	1.93	0.50
2:F:73:LEU:HD22	2:F:77:TYR:CD2	2.46	0.50
2:G:139:TRP:C	2:G:139:TRP:CD1	2.85	0.50
2:G:167:ASN:ND2	2:G:178:GLY:HA2	2.22	0.50
2:I:6:SER:O	2:I:8:SER:N	2.44	0.50
2:J:6:SER:O	2:J:8:SER:N	2.45	0.50
2:L:11:LEU:O	2:L:15:ARG:N	2.39	0.50
2:O:11:LEU:O	2:O:15:ARG:N	2.40	0.50
3:W:898:LYS:HE2	3:W:908:GLN:HG2	1.94	0.50
1:A:229:ARG:O	1:A:242:PRO:CG	2.60	0.50
1:A:332:VAL:HG11	1:A:557:LEU:HD21	1.93	0.50
1:A:675:GLU:O	1:A:676:VAL:C	2.50	0.50
1:B:170:TYR:CE1	1:B:682:PHE:HB2	2.47	0.50
1:B:364:THR:HG22	1:B:364:THR:O	2.12	0.50
1:B:463:ILE:HG21	1:B:468:VAL:CG1	2.41	0.50
1:B:499:ASN:N	1:B:505:GLN:NE2	2.60	0.50
1:B:536:LEU:HD22	1:B:536:LEU:N	2.27	0.50
1:B:618:ILE:HD13	1:B:645:PHE:CZ	2.47	0.50
1:B:810:TYR:HA	1:B:812:VAL:HG12	1.92	0.50
2:C:31:ILE:O	2:C:34:PHE:HB3	2.12	0.50
2:D:133:SER:O	2:D:136:ILE:HG22	2.11	0.50
2:F:6:SER:O	2:F:8:SER:N	2.45	0.50
2:I:8:SER:C	2:I:10:THR:H	2.14	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:360:VAL:O	2:I:378:ARG:HD3	2.11	0.50
2:K:124:PHE:O	2:K:126:ARG:N	2.45	0.50
2:L:35:ASN:O	2:L:36:GLN:C	2.50	0.50
2:N:104:SER:O	2:N:108:GLY:HA3	2.12	0.50
3:W:607:LEU:HD21	3:W:659:TYR:HE1	1.75	0.50
1:A:289:ASP:C	1:A:290:ARG:HG2	2.32	0.50
1:A:297:ARG:HG3	1:A:848:PHE:CD2	2.46	0.50
1:A:309:ASN:HA	1:A:311:HIS:CE1	2.47	0.50
1:A:603:TYR:O	1:A:606:VAL:CG2	2.60	0.50
1:A:660:ASP:CA	1:B:539:ARG:HH11	2.24	0.50
1:A:704:ILE:HG23	1:A:758:ALA:HB2	1.94	0.50
1:B:113:PRO:HD2	1:B:609:ASN:HB3	1.94	0.50
1:B:141:GLU:O	1:B:142:LEU:CB	2.60	0.50
1:B:392:MET:HB3	1:B:574:GLU:O	2.10	0.50
1:B:477:ASN:O	1:B:479:GLN:N	2.44	0.50
1:B:510:LEU:HD12	1:B:513:LEU:HD12	1.94	0.50
2:E:101:VAL:HG23	2:E:102:ARG:N	2.27	0.50
2:I:12:LYS:O	2:I:14:ALA:N	2.45	0.50
2:I:150:PHE:N	2:I:150:PHE:CD1	2.79	0.50
2:J:23:LEU:O	2:J:26:ASN:ND2	2.45	0.50
2:N:360:VAL:O	2:N:378:ARG:HD3	2.11	0.50
3:W:4:TYR:CD2	3:W:4:TYR:C	2.84	0.50
3:W:452:ARG:HH11	3:W:452:ARG:HG3	1.76	0.50
3:W:777:THR:HG21	3:W:882:LYS:HZ1	1.74	0.50
1:A:369:GLY:O	1:A:370:ILE:C	2.49	0.50
1:A:503:ILE:HG22	1:A:503:ILE:O	2.12	0.50
1:A:613:ASN:HD22	1:A:649:LEU:HD21	1.75	0.50
1:B:306:ASP:C	1:B:308:LEU:H	2.08	0.50
1:B:436:ILE:CG1	1:B:437:TYR:H	2.21	0.50
1:B:444:ARG:HH21	1:B:520:THR:CG2	2.09	0.50
2:C:253:ILE:HD13	2:C:319:THR:HB	1.93	0.50
2:E:24:TYR:O	2:E:26:ASN:N	2.43	0.50
2:E:360:VAL:O	2:E:378:ARG:HD3	2.11	0.50
2:F:153:HIS:NE2	2:G:153:HIS:CD2	2.80	0.50
2:G:74:ASP:OD2	2:G:76:ASN:HB3	2.12	0.50
2:G:124:PHE:O	2:G:126:ARG:N	2.45	0.50
2:G:155:PRO:O	2:G:186:SER:HB3	2.12	0.50
2:J:63:PHE:N	2:J:63:PHE:CD1	2.80	0.50
2:J:144:ARG:O	2:J:145:ARG:HB2	2.12	0.50
2:K:8:SER:C	2:K:10:THR:H	2.14	0.50
2:N:253:ILE:HD13	2:N:319:THR:HB	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:30:LEU:O	2:O:31:ILE:C	2.51	0.50
3:W:255:VAL:HG12	3:W:256:ASP:O	2.12	0.50
1:A:284:TYR:OH	1:A:594:ILE:HG23	2.12	0.49
1:A:310:LEU:CD1	1:A:310:LEU:N	2.69	0.49
1:A:311:HIS:HA	1:A:318:TRP:CD1	2.47	0.49
1:A:392:MET:O	1:A:420:ILE:HG23	2.11	0.49
1:A:465:ASN:HB3	1:A:468:VAL:HB	1.94	0.49
1:A:555:GLU:OE1	1:A:871:PHE:CD2	2.66	0.49
1:A:674:VAL:HG12	1:A:678:ARG:HB2	1.93	0.49
1:A:774:LEU:HD12	1:A:774:LEU:O	2.11	0.49
1:B:305:GLN:NE2	1:B:564:ASN:CG	2.65	0.49
1:B:394:LEU:C	1:B:396:PHE:N	2.65	0.49
2:J:14:ALA:C	2:J:16:ASP:N	2.65	0.49
2:K:133:SER:O	2:K:136:ILE:HG22	2.12	0.49
2:O:6:SER:O	2:O:8:SER:N	2.45	0.49
3:W:145:VAL:CG2	3:W:211:ILE:HG23	2.42	0.49
3:W:466:PRO:HD2	3:W:469:TYR:CD2	2.46	0.49
3:W:532:GLN:O	3:W:536:LYS:HG3	2.12	0.49
1:A:141:GLU:O	1:A:142:LEU:HB2	2.11	0.49
1:A:230:GLN:O	1:A:230:GLN:NE2	2.45	0.49
1:A:390:ARG:HG3	1:A:391:THR:N	2.26	0.49
1:A:404:LEU:O	1:A:405:ILE:C	2.50	0.49
1:A:503:ILE:HG22	1:A:506:LEU:CB	2.42	0.49
1:A:779:ASP:OD1	1:A:779:ASP:N	2.43	0.49
1:B:134:TYR:CD2	1:B:803:ASN:HB2	2.47	0.49
1:B:267:ASN:N	1:B:292:LEU:HD12	2.27	0.49
1:B:322:THR:HG21	1:B:390:ARG:HA	1.94	0.49
1:B:639:LYS:O	1:B:642:VAL:N	2.44	0.49
2:C:60:ASN:C	2:C:61:PHE:CD1	2.85	0.49
2:C:106:ARG:HD3	2:C:106:ARG:N	2.10	0.49
2:F:116:LEU:HA	2:F:119:LEU:CD1	2.42	0.49
2:G:133:SER:O	2:G:136:ILE:HG22	2.12	0.49
2:H:101:VAL:HB	2:H:355:ILE:HG21	1.94	0.49
2:H:360:VAL:O	2:H:378:ARG:HD3	2.11	0.49
2:M:139:TRP:CD1	2:M:139:TRP:C	2.84	0.49
2:O:14:ALA:C	2:O:16:ASP:N	2.66	0.49
2:O:35:ASN:HD21	2:O:66:LEU:HD12	1.77	0.49
3:W:531:THR:HG23	3:W:532:GLN:N	2.27	0.49
1:A:415:PRO:HD2	1:A:480:PHE:HE1	1.76	0.49
1:A:501:HIS:O	1:A:503:ILE:N	2.37	0.49
1:A:527:ARG:HH11	1:A:527:ARG:HG3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:159:ASP:OD2	1:B:761:GLY:HA3	2.11	0.49
1:B:277:ARG:NH1	1:B:277:ARG:CB	2.75	0.49
1:B:428:GLN:HE22	1:B:455:PRO:HB2	1.77	0.49
1:B:480:PHE:O	1:B:481:ARG:C	2.49	0.49
1:B:501:HIS:C	1:B:503:ILE:H	2.15	0.49
1:B:590:ASN:N	1:B:590:ASN:ND2	2.46	0.49
1:B:735:LEU:CD2	1:B:759:LEU:HB3	2.42	0.49
2:C:8:SER:C	2:C:10:THR:H	2.14	0.49
2:E:12:LYS:O	2:E:14:ALA:N	2.45	0.49
2:E:22:THR:CG2	2:E:73:LEU:HD12	2.42	0.49
2:K:31:ILE:O	2:K:34:PHE:HB3	2.11	0.49
3:W:126:THR:C	3:W:128:SER:H	2.15	0.49
3:W:246:SER:OG	3:W:247:PRO:HD3	2.12	0.49
1:A:149:LYS:NZ	1:A:697:ASP:OD1	2.45	0.49
1:A:688:ASN:O	1:A:689:MET:C	2.51	0.49
1:A:771:VAL:HG12	1:A:809:PHE:HB3	1.93	0.49
1:B:428:GLN:CB	1:B:456:PHE:HD1	2.24	0.49
1:B:450:GLY:O	1:B:451:ASP:HB2	2.11	0.49
1:B:498:ARG:HH12	2:J:25:SER:CB	2.23	0.49
1:B:698:LYS:O	1:B:699:ILE:HD13	2.12	0.49
1:B:698:LYS:C	1:B:699:ILE:HD13	2.33	0.49
1:B:869:VAL:HG13	1:B:873:ASN:HA	1.92	0.49
2:G:14:ALA:C	2:G:16:ASP:N	2.66	0.49
2:H:8:SER:C	2:H:10:THR:H	2.14	0.49
2:M:133:SER:O	2:M:136:ILE:HG22	2.13	0.49
2:O:139:TRP:C	2:O:139:TRP:CD1	2.85	0.49
1:A:178:PRO:HD2	1:A:256:PHE:HE2	1.77	0.49
1:A:333:VAL:CG1	1:A:380:LYS:HA	2.19	0.49
1:A:415:PRO:HG2	1:A:480:PHE:HD1	1.73	0.49
1:A:718:TYR:N	1:A:718:TYR:CD1	2.80	0.49
1:B:122:LEU:O	1:B:123:PHE:HB3	2.12	0.49
1:B:174:LEU:O	1:B:177:MET:HB2	2.12	0.49
1:B:305:GLN:O	1:B:307:ARG:N	2.46	0.49
1:B:812:VAL:HA	1:B:817:TRP:HZ3	1.78	0.49
2:J:144:ARG:NH2	2:J:146:GLN:NE2	2.61	0.49
2:K:12:LYS:O	2:K:14:ALA:N	2.45	0.49
2:K:14:ALA:C	2:K:16:ASP:N	2.65	0.49
2:N:22:THR:OG1	2:N:26:ASN:ND2	2.40	0.49
2:O:63:PHE:N	2:O:63:PHE:CD1	2.81	0.49
3:W:345:ASP:HB2	3:W:458:ARG:NH1	2.25	0.49
3:W:759:THR:O	3:W:759:THR:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:150:LEU:HD12	1:B:696:SER:HA	1.93	0.49
1:B:603:TYR:O	1:B:606:VAL:CG2	2.61	0.49
1:B:856:ALA:C	1:B:858:VAL:H	2.14	0.49
2:C:6:SER:O	2:C:8:SER:N	2.45	0.49
2:C:153:HIS:CE1	2:D:153:HIS:CD2	3.01	0.49
2:F:12:LYS:O	2:F:14:ALA:N	2.45	0.49
2:H:155:PRO:O	2:H:186:SER:HB3	2.13	0.49
2:J:30:LEU:O	2:J:31:ILE:C	2.51	0.49
2:J:31:ILE:O	2:J:34:PHE:HB3	2.13	0.49
2:J:115:SER:O	2:J:119:LEU:HG	2.13	0.49
2:O:360:VAL:O	2:O:378:ARG:HD3	2.11	0.49
3:W:803:ALA:HA	3:W:808:PHE:CG	2.47	0.49
1:A:147:TYR:N	1:A:147:TYR:CD1	2.80	0.49
1:A:389:GLN:HE22	1:A:568:VAL:H	1.60	0.49
1:A:452:PRO:O	1:A:453:GLN:HB3	2.13	0.49
1:A:457:GLN:O	1:A:459:ALA:N	2.45	0.49
1:A:548:ARG:O	1:A:551:ALA:HB3	2.12	0.49
1:A:854:LEU:O	1:A:856:ALA:N	2.46	0.49
1:B:457:GLN:C	1:B:459:ALA:N	2.57	0.49
1:B:544:VAL:HG11	1:B:548:ARG:HH21	1.78	0.49
1:B:807:ASN:C	1:B:809:PHE:N	2.66	0.49
2:C:35:ASN:O	2:C:36:GLN:C	2.51	0.49
2:C:153:HIS:O	2:C:154:LYS:C	2.50	0.49
2:E:115:SER:O	2:E:119:LEU:HG	2.13	0.49
2:F:14:ALA:C	2:F:16:ASP:N	2.66	0.49
2:F:150:PHE:N	2:F:150:PHE:CD1	2.80	0.49
2:G:153:HIS:NE2	2:H:153:HIS:CD2	2.81	0.49
2:I:5:TYR:CE2	2:I:131:ASN:HA	2.47	0.49
2:I:253:ILE:HD13	2:I:319:THR:HB	1.93	0.49
2:L:139:TRP:HE1	2:L:143:ASN:HD22	1.61	0.49
2:M:5:TYR:HE2	2:M:131:ASN:HA	1.77	0.49
2:N:14:ALA:C	2:N:16:ASP:N	2.65	0.49
1:A:539:ARG:O	1:A:542:GLN:N	2.44	0.49
1:A:652:PHE:N	1:A:652:PHE:CD1	2.80	0.49
1:A:662:MET:O	1:A:665:LEU:CB	2.61	0.49
1:A:820:THR:HG22	1:A:820:THR:O	2.13	0.49
1:B:182:LEU:HD21	1:B:846:LEU:HD12	1.95	0.49
1:B:184:LYS:C	1:B:186:MET:H	2.15	0.49
1:B:288:MET:CE	1:B:288:MET:HA	2.42	0.49
1:B:487:GLY:O	1:B:488:VAL:HB	2.13	0.49
1:B:580:SER:O	1:B:581:VAL:C	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:854:LEU:CD2	1:B:855:LEU:N	2.76	0.49
2:E:21:GLY:O	2:E:22:THR:O	2.31	0.49
2:E:110:ALA:HB1	2:E:111:PRO:HD2	1.95	0.49
2:F:72:ASN:ND2	2:H:126:ARG:NH1	2.60	0.49
2:I:14:ALA:C	2:I:16:ASP:N	2.66	0.49
2:J:2:ASP:HB2	2:J:128:ASN:HD21	1.77	0.49
2:O:109:ILE:HB	2:O:380:ASP:HB3	1.94	0.49
3:W:748:LEU:HD23	3:W:748:LEU:O	2.13	0.49
1:A:192:ASN:O	1:A:193:SER:CB	2.49	0.49
1:B:139:GLU:O	1:B:141:GLU:N	2.46	0.49
1:B:428:GLN:O	1:B:432:VAL:HG23	2.13	0.49
1:B:501:HIS:O	1:B:503:ILE:HG13	2.12	0.49
1:B:676:VAL:O	1:B:680:ASP:HB2	2.13	0.49
1:B:845:ASN:HB3	1:B:848:PHE:HE1	1.77	0.49
2:D:35:ASN:O	2:D:36:GLN:C	2.51	0.49
2:F:46:PHE:CE2	2:F:119:LEU:HD21	2.48	0.49
2:F:101:VAL:HG23	2:F:102:ARG:N	2.27	0.49
2:G:42:ASN:HA	2:G:61:PHE:HB2	1.94	0.49
2:H:6:SER:O	2:H:8:SER:N	2.46	0.49
2:I:144:ARG:NH2	2:I:146:GLN:HE22	2.10	0.49
2:J:35:ASN:O	2:J:36:GLN:C	2.51	0.49
2:J:101:VAL:HG23	2:J:102:ARG:N	2.27	0.49
2:J:150:PHE:N	2:J:150:PHE:CD1	2.81	0.49
2:K:139:TRP:CD1	2:K:139:TRP:C	2.85	0.49
2:L:12:LYS:O	2:L:14:ALA:N	2.45	0.49
3:W:23:GLN:O	3:W:25:PRO:HD3	2.13	0.49
3:W:76:SER:O	3:W:748:LEU:HA	2.12	0.49
3:W:488:ARG:NH2	3:W:501:LEU:HD11	2.28	0.49
1:A:311:HIS:HE2	1:A:566:GLN:HE22	1.59	0.49
1:A:597:PRO:HB3	1:A:860:ALA:HB3	1.94	0.49
1:A:646:LEU:HD23	1:A:646:LEU:N	2.28	0.49
1:A:666:ARG:HG2	1:A:667:ASP:H	1.78	0.49
1:B:277:ARG:NH1	1:B:277:ARG:HB2	2.28	0.49
1:B:422:GLU:OE1	1:B:422:GLU:N	2.46	0.49
1:B:473:HIS:CB	2:I:126:ARG:NH2	2.69	0.49
1:B:587:LEU:O	1:B:587:LEU:CG	2.60	0.49
2:C:106:ARG:HG2	2:C:107:ASN:H	1.77	0.49
2:G:12:LYS:O	2:G:14:ALA:N	2.46	0.49
2:K:59:TRP:N	2:K:59:TRP:CD1	2.79	0.49
2:M:12:LYS:O	2:M:14:ALA:N	2.46	0.49
3:W:212:GLU:CB	3:W:696:LEU:HD12	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:232:LEU:HD22	3:W:300:LEU:HD12	1.95	0.49
3:W:255:VAL:HG22	3:W:314:ARG:O	2.13	0.49
3:W:591:SER:HB2	3:W:596:THR:HG21	1.95	0.49
1:A:122:LEU:HD11	1:A:201:ASP:CB	2.43	0.48
1:A:179:ASP:HA	1:A:677:ARG:NH2	2.27	0.48
1:A:271:PHE:CA	1:A:274:ILE:HD12	2.43	0.48
1:A:404:LEU:O	1:A:407:GLY:N	2.46	0.48
1:B:302:ASN:ND2	1:B:615:ASN:HB3	2.27	0.48
1:B:785:GLN:O	1:B:787:VAL:N	2.46	0.48
2:E:14:ALA:C	2:E:16:ASP:N	2.66	0.48
2:G:115:SER:O	2:G:119:LEU:HG	2.13	0.48
2:G:129:PHE:CD1	2:G:129:PHE:C	2.86	0.48
2:I:49:GLY:HA2	2:I:54:LEU:CD2	2.43	0.48
2:L:41:MET:O	2:L:42:ASN:C	2.51	0.48
2:O:69:THR:O	2:O:70:LEU:O	2.31	0.48
3:W:80:ASP:O	3:W:81:LYS:HG3	2.13	0.48
3:W:1047:LYS:O	3:W:1048:ASN:ND2	2.46	0.48
1:A:322:THR:O	1:A:323:THR:C	2.50	0.48
1:A:529:ILE:O	1:A:533:ILE:HG13	2.12	0.48
1:B:436:ILE:O	1:B:437:TYR:C	2.51	0.48
1:B:473:HIS:O	1:B:477:ASN:ND2	2.46	0.48
1:B:583:SER:O	1:B:587:LEU:HB3	2.12	0.48
1:B:789:LEU:O	1:B:790:ARG:C	2.51	0.48
2:K:6:SER:O	2:K:8:SER:N	2.46	0.48
2:K:30:LEU:O	2:K:31:ILE:C	2.52	0.48
2:L:14:ALA:C	2:L:16:ASP:N	2.67	0.48
2:L:109:ILE:HB	2:L:380:ASP:HB3	1.94	0.48
2:L:135:TYR:OH	2:L:340:GLU:OE1	2.30	0.48
2:M:6:SER:O	2:M:8:SER:N	2.45	0.48
2:M:38:ILE:HG22	2:M:42:ASN:ND2	2.27	0.48
2:N:53:ASN:ND2	2:N:354:ALA:HB3	2.28	0.48
2:O:48:THR:O	2:O:56:ILE:HA	2.12	0.48
3:W:396:SER:O	3:W:398:SER:N	2.46	0.48
3:W:477:VAL:HA	3:W:480:MET:HE3	1.94	0.48
1:A:434:THR:O	1:A:434:THR:CG2	2.61	0.48
1:B:477:ASN:HD21	2:I:39:ILE:HG21	1.77	0.48
1:B:486:ASP:O	1:B:488:VAL:N	2.46	0.48
1:B:522:PRO:O	1:B:525:TYR:HB2	2.14	0.48
1:B:765:PHE:CZ	1:B:767:THR:HG23	2.48	0.48
2:C:130:ASP:C	2:C:131:ASN:HD22	2.17	0.48
2:G:144:ARG:O	2:G:145:ARG:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:14:ALA:C	2:H:16:ASP:N	2.66	0.48
2:H:149:GLY:C	2:H:150:PHE:CD1	2.87	0.48
2:I:19:VAL:HG21	2:K:128:ASN:HB3	1.94	0.48
2:J:135:TYR:OH	2:J:340:GLU:OE1	2.30	0.48
2:M:123:LYS:HG3	2:M:124:PHE:CE1	2.49	0.48
2:M:131:ASN:O	2:N:16:ASP:HB3	2.13	0.48
2:O:144:ARG:C	2:O:145:ARG:HG2	2.33	0.48
3:W:498:ASN:HB2	3:W:1086:PHE:CE2	2.48	0.48
3:W:1009:PHE:HE2	3:W:1042:ILE:HG13	1.78	0.48
1:A:122:LEU:HD23	1:A:122:LEU:N	2.28	0.48
1:A:384:ALA:O	1:A:385:ALA:C	2.50	0.48
1:A:390:ARG:HE	1:A:574:GLU:HG2	1.78	0.48
1:A:704:ILE:O	1:A:823:THR:HB	2.14	0.48
1:B:228:MET:HG3	1:B:228:MET:O	2.12	0.48
1:B:231:ARG:CB	1:B:240:ASN:HB2	2.42	0.48
1:B:275:PRO:HD2	1:B:278:ILE:CD1	2.43	0.48
1:B:329:ALA:HB3	1:B:384:ALA:CB	2.43	0.48
1:B:422:GLU:O	1:B:425:VAL:HB	2.12	0.48
1:B:442:MET:O	1:B:443:GLN:C	2.50	0.48
2:E:133:SER:O	2:E:136:ILE:HG22	2.13	0.48
2:J:36:GLN:OE1	2:K:23:LEU:HD21	2.13	0.48
2:K:35:ASN:O	2:K:36:GLN:C	2.51	0.48
2:L:5:TYR:HE2	2:L:130:ASP:O	1.97	0.48
3:W:186:ASN:H	3:W:186:ASN:ND2	2.07	0.48
3:W:466:PRO:HD2	3:W:469:TYR:HD2	1.79	0.48
3:W:769:GLU:HG2	3:W:772:ILE:HD12	1.95	0.48
1:A:170:TYR:CE1	1:A:682:PHE:HB2	2.49	0.48
1:A:226:ALA:C	1:A:228:MET:H	2.15	0.48
1:A:305:GLN:OE1	1:A:564:ASN:ND2	2.44	0.48
1:A:484:VAL:CG1	1:A:485:ILE:H	2.25	0.48
1:A:486:ASP:OD2	1:A:490:ASN:HB2	2.13	0.48
1:A:545:ASP:O	1:A:546:LEU:C	2.51	0.48
1:A:545:ASP:OD1	1:A:548:ARG:NH1	2.46	0.48
1:B:108:LEU:C	1:B:110:ASP:N	2.67	0.48
1:B:113:PRO:CD	1:B:609:ASN:HB3	2.43	0.48
1:B:176:GLU:O	1:B:178:PRO:CD	2.61	0.48
1:B:392:MET:CA	1:B:573:THR:HG23	2.43	0.48
1:B:521:MET:CB	1:B:522:PRO:CD	2.90	0.48
2:D:125:LYS:O	2:D:127:ILE:N	2.46	0.48
2:E:6:SER:OG	2:E:128:ASN:HA	2.13	0.48
2:H:22:THR:OG1	2:H:26:ASN:ND2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:35:ASN:O	2:H:36:GLN:C	2.51	0.48
2:H:115:SER:O	2:H:119:LEU:HG	2.13	0.48
2:I:48:THR:O	2:I:56:ILE:HA	2.13	0.48
2:J:155:PRO:O	2:J:186:SER:HB3	2.14	0.48
2:O:14:ALA:O	2:O:18:ILE:CD1	2.61	0.48
2:O:42:ASN:HA	2:O:61:PHE:HB2	1.95	0.48
1:A:118:LYS:CG	1:A:119:GLN:N	2.73	0.48
1:A:404:LEU:CB	1:A:435:ILE:HD11	2.43	0.48
1:A:428:GLN:CB	1:A:456:PHE:HD1	2.22	0.48
1:A:460:GLU:C	1:A:462:GLN:H	2.16	0.48
1:A:516:GLN:CD	1:A:516:GLN:H	2.11	0.48
1:A:659:ASP:O	1:A:660:ASP:O	2.32	0.48
1:A:822:THR:O	1:A:823:THR:OG1	2.22	0.48
1:A:865:PRO:O	1:A:867:ASN:N	2.47	0.48
1:B:104:ILE:HD12	1:B:327:ILE:CD1	2.44	0.48
1:B:782:VAL:O	1:B:785:GLN:HB2	2.14	0.48
2:C:150:PHE:N	2:C:150:PHE:CD1	2.82	0.48
2:D:24:TYR:CE1	2:D:68:THR:HG22	2.48	0.48
2:D:31:ILE:O	2:D:34:PHE:HB3	2.13	0.48
2:D:150:PHE:HB2	2:D:152:PHE:HE1	1.77	0.48
2:E:35:ASN:O	2:E:36:GLN:C	2.52	0.48
2:F:53:ASN:ND2	2:F:354:ALA:HB3	2.28	0.48
2:G:54:LEU:HD12	2:G:55:PRO:HD2	1.96	0.48
2:M:128:ASN:HD22	2:N:19:VAL:HB	1.79	0.48
2:N:35:ASN:O	2:N:36:GLN:C	2.51	0.48
2:O:32:GLN:O	2:O:33:GLN:C	2.52	0.48
3:W:796:SER:C	3:W:798:ILE:H	2.16	0.48
3:W:825:ASN:HA	3:W:828:SER:CB	2.41	0.48
1:A:363:GLU:C	1:A:366:PHE:HE1	2.16	0.48
1:A:458:ILE:O	1:A:462:GLN:HG2	2.13	0.48
1:A:627:ALA:O	1:A:631:LEU:HG	2.13	0.48
1:A:629:ASN:C	1:A:631:LEU:N	2.61	0.48
1:B:190:ASN:O	1:B:190:ASN:CG	2.52	0.48
1:B:220:ALA:O	1:B:223:ARG:HB2	2.14	0.48
1:B:305:GLN:CG	1:B:564:ASN:HD21	2.26	0.48
1:B:415:PRO:O	1:B:416:ASN:C	2.52	0.48
1:B:459:ALA:HB1	1:B:463:ILE:CD1	2.36	0.48
1:B:723:ILE:O	1:B:724:ALA:CB	2.61	0.48
1:B:785:GLN:O	1:B:786:ILE:C	2.51	0.48
2:C:30:LEU:O	2:C:31:ILE:C	2.52	0.48
2:C:63:PHE:CD1	2:C:63:PHE:N	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:23:LEU:O	2:E:26:ASN:ND2	2.47	0.48
2:F:144:ARG:O	2:F:145:ARG:HG3	2.14	0.48
2:G:23:LEU:HD23	2:G:24:TYR:N	2.28	0.48
2:I:45:GLU:C	2:I:46:PHE:CD1	2.87	0.48
2:K:150:PHE:N	2:K:150:PHE:CD1	2.82	0.48
2:L:30:LEU:O	2:L:31:ILE:C	2.52	0.48
2:N:6:SER:O	2:N:8:SER:N	2.47	0.48
3:W:248:MET:O	3:W:252:VAL:HG13	2.14	0.48
3:W:626:ILE:O	3:W:627:ARG:NH1	2.43	0.48
1:A:145:ARG:HB3	1:A:147:TYR:CE1	2.49	0.48
1:A:589:GLY:C	1:A:591:ALA:N	2.66	0.48
1:B:233:GLN:HB2	1:B:238:VAL:HB	1.96	0.48
1:B:319:ASP:OD2	1:B:572:THR:N	2.46	0.48
1:B:452:PRO:O	1:B:453:GLN:OE1	2.32	0.48
1:B:594:ILE:HB	1:B:595:PRO:HD2	1.94	0.48
1:B:655:ALA:C	1:B:657:VAL:H	2.17	0.48
1:B:745:ALA:HA	1:B:748:THR:OG1	2.13	0.48
1:B:775:ILE:N	1:B:775:ILE:CD1	2.76	0.48
2:D:70:LEU:CG	2:D:71:LEU:N	2.76	0.48
2:I:128:ASN:O	2:J:22:THR:HB	2.14	0.48
2:M:22:THR:HG23	2:M:73:LEU:CD1	2.39	0.48
3:W:433:TYR:CE1	3:W:435:PRO:HD3	2.49	0.48
3:W:499:GLN:HE21	3:W:499:GLN:HB3	1.50	0.48
1:A:239:VAL:HG21	1:A:845:ASN:O	2.13	0.48
1:A:328:LEU:HG	1:A:603:TYR:HE1	1.79	0.48
1:A:484:VAL:HG12	1:A:485:ILE:N	2.28	0.48
1:A:769:SER:O	1:A:770:SER:C	2.51	0.48
1:A:817:TRP:CZ3	1:A:819:PRO:HA	2.49	0.48
1:B:214:ASP:O	1:B:216:GLU:N	2.47	0.48
1:B:283:ASN:O	1:B:863:VAL:HG23	2.13	0.48
1:B:466:PHE:CD1	2:H:80:THR:HG22	2.48	0.48
1:B:517:GLN:N	1:B:518:PHE:CE1	2.79	0.48
1:B:536:LEU:N	1:B:536:LEU:CD2	2.77	0.48
1:B:712:LEU:HB3	1:B:819:PRO:HB2	1.96	0.48
1:B:811:LEU:HA	1:B:814:ASN:HD22	1.79	0.48
2:C:145:ARG:HB3	2:C:145:ARG:CZ	2.43	0.48
2:D:14:ALA:C	2:D:16:ASP:N	2.66	0.48
2:F:31:ILE:O	2:F:34:PHE:HB3	2.13	0.48
2:I:37:MET:O	2:I:38:ILE:C	2.53	0.48
2:J:346:VAL:CG2	2:J:385:VAL:HG13	2.44	0.48
2:L:50:GLY:HA2	2:L:56:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:106:ARG:HG2	2:L:107:ASN:H	1.78	0.48
3:W:464:ILE:O	3:W:464:ILE:HG22	2.14	0.48
3:W:519:THR:HG22	3:W:520:ASP:H	1.74	0.48
3:W:951:ILE:HG23	3:W:1071:TRP:HZ3	1.79	0.48
3:W:1082:ASN:O	3:W:1084:ASN:CG	2.52	0.48
1:A:314:PHE:N	1:A:314:PHE:CD1	2.82	0.48
1:A:356:GLU:O	3:W:982:SER:HB2	2.14	0.48
1:A:365:GLN:C	1:A:366:PHE:CG	2.88	0.48
1:A:436:ILE:HD11	1:A:437:TYR:CE1	2.49	0.48
1:A:527:ARG:O	1:A:531:ARG:HG3	2.13	0.48
1:A:660:ASP:C	1:A:662:MET:N	2.66	0.48
1:A:694:ARG:HD2	1:A:828:GLN:HG3	1.96	0.48
1:B:89:GLU:C	1:B:91:LEU:H	2.16	0.48
1:B:126:PHE:HB3	1:B:149:LYS:O	2.14	0.48
1:B:236:ARG:O	1:B:237:ASN:CB	2.61	0.48
1:B:384:ALA:O	1:B:385:ALA:C	2.50	0.48
1:B:447:TYR:OH	1:B:458:ILE:HD11	2.13	0.48
1:B:449:ASN:HD21	1:B:455:PRO:HG3	1.78	0.48
1:B:478:ASN:C	1:B:480:PHE:H	2.17	0.48
1:B:533:ILE:O	1:B:536:LEU:HB2	2.14	0.48
1:B:540:LEU:HD23	1:B:540:LEU:C	2.34	0.48
1:B:639:LYS:O	1:B:640:ALA:C	2.52	0.48
2:F:38:ILE:HG22	2:F:42:ASN:ND2	2.27	0.48
2:I:35:ASN:O	2:I:36:GLN:C	2.52	0.48
2:I:41:MET:O	2:I:42:ASN:C	2.52	0.48
2:I:346:VAL:CG2	2:I:385:VAL:HG13	2.44	0.48
2:J:19:VAL:O	2:J:21:GLY:N	2.47	0.48
2:J:133:SER:O	2:J:136:ILE:HG22	2.13	0.48
2:K:115:SER:O	2:K:119:LEU:HG	2.14	0.48
2:L:139:TRP:HE1	2:L:143:ASN:ND2	2.11	0.48
2:M:14:ALA:C	2:M:16:ASP:N	2.66	0.48
2:M:30:LEU:O	2:M:31:ILE:C	2.52	0.48
2:M:35:ASN:O	2:M:36:GLN:C	2.51	0.48
2:O:35:ASN:O	2:O:36:GLN:C	2.52	0.48
2:O:63:PHE:CD2	2:O:84:THR:HG23	2.49	0.48
2:O:346:VAL:CG2	2:O:385:VAL:HG13	2.44	0.48
3:W:107:LEU:HB2	3:W:110:GLU:HG3	1.96	0.48
3:W:447:ILE:HG22	3:W:448:PRO:O	2.14	0.48
3:W:472:ALA:O	3:W:561:TYR:HD1	1.96	0.48
1:B:122:LEU:HD11	1:B:200:VAL:HG11	1.94	0.47
1:B:405:ILE:O	1:B:408:MET:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:131:ASN:N	2:C:131:ASN:ND2	2.62	0.47
2:D:66:LEU:O	2:D:67:GLY:O	2.31	0.47
2:E:131:ASN:HD22	2:E:131:ASN:N	2.11	0.47
2:I:48:THR:HG21	2:I:94:ASN:HB3	1.96	0.47
2:J:48:THR:O	2:J:56:ILE:HA	2.13	0.47
2:L:346:VAL:CG2	2:L:385:VAL:HG13	2.44	0.47
2:M:41:MET:O	2:M:42:ASN:C	2.52	0.47
2:N:42:ASN:HA	2:N:61:PHE:CB	2.44	0.47
2:N:99:GLU:OE2	2:N:112:GLN:HG2	2.13	0.47
2:N:152:PHE:N	2:N:152:PHE:CD1	2.82	0.47
2:O:12:LYS:O	2:O:14:ALA:N	2.46	0.47
3:W:195:VAL:HG23	3:W:196:MET:N	2.29	0.47
3:W:497:SER:HB2	3:W:501:LEU:HD23	1.95	0.47
3:W:772:ILE:HG23	3:W:1043:ASN:ND2	2.29	0.47
1:A:540:LEU:HA	1:A:543:LEU:HB2	1.96	0.47
1:B:822:THR:HG22	1:B:822:THR:O	2.14	0.47
2:C:5:TYR:HE2	2:C:131:ASN:HA	1.80	0.47
2:G:35:ASN:O	2:G:36:GLN:C	2.52	0.47
2:H:22:THR:HG23	2:H:73:LEU:CD1	2.43	0.47
2:H:51:ILE:HG23	2:H:51:ILE:O	2.14	0.47
2:M:115:SER:O	2:M:119:LEU:HG	2.14	0.47
3:W:387:ARG:HH11	3:W:387:ARG:CB	2.25	0.47
3:W:405:SER:HA	3:W:418:THR:HA	1.97	0.47
3:W:595:GLN:O	3:W:599:ALA:N	2.38	0.47
3:W:906:ASN:HD21	3:W:907:VAL:HG23	1.79	0.47
1:A:306:ASP:HB3	1:A:310:LEU:HD11	1.95	0.47
1:A:383:ILE:O	1:A:384:ALA:C	2.53	0.47
1:A:437:TYR:N	1:A:438:PRO:CD	2.73	0.47
1:A:503:ILE:HG12	1:A:547:THR:HG21	1.96	0.47
1:A:539:ARG:NH2	1:A:588:ILE:O	2.47	0.47
1:A:636:LYS:O	1:A:637:LYS:C	2.52	0.47
1:A:660:ASP:O	1:A:663:TYR:N	2.47	0.47
1:A:701:GLN:HB3	1:A:826:TYR:CD2	2.46	0.47
1:B:295:THR:O	1:B:297:ARG:HG2	2.14	0.47
1:B:296:ALA:C	1:B:297:ARG:HG2	2.35	0.47
1:B:493:LEU:HD11	1:B:567:HIS:HB2	1.95	0.47
1:B:511:MET:HE3	2:J:70:LEU:HG	1.94	0.47
1:B:638:MET:HE1	1:B:666:ARG:HH12	1.78	0.47
2:D:32:GLN:O	2:D:33:GLN:C	2.52	0.47
2:F:30:LEU:O	2:F:31:ILE:C	2.53	0.47
2:F:35:ASN:O	2:F:36:GLN:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:133:SER:O	2:H:136:ILE:HG22	2.14	0.47
2:I:33:GLN:HA	2:J:23:LEU:HD12	1.95	0.47
2:M:11:LEU:O	2:M:15:ARG:N	2.41	0.47
3:W:441:VAL:O	3:W:571:SER:HA	2.14	0.47
3:W:535:ARG:HH11	3:W:565:GLN:NE2	2.12	0.47
1:A:710:MET:HE1	1:A:824:LYS:HE2	1.97	0.47
1:A:714:ARG:HG2	1:A:720:TYR:HD2	1.79	0.47
1:A:827:LYS:O	1:A:828:GLN:O	2.32	0.47
1:B:355:LEU:HG	1:B:356:GLU:H	1.76	0.47
1:B:460:GLU:HG3	1:B:473:HIS:CD2	2.49	0.47
1:B:513:LEU:HA	1:B:516:GLN:HE22	1.71	0.47
2:D:48:THR:O	2:D:56:ILE:HA	2.14	0.47
2:E:30:LEU:O	2:E:31:ILE:C	2.51	0.47
2:G:346:VAL:CG2	2:G:385:VAL:HG13	2.45	0.47
2:H:151:THR:C	2:H:152:PHE:CD1	2.88	0.47
2:M:37:MET:O	2:M:38:ILE:C	2.53	0.47
2:N:32:GLN:O	2:N:33:GLN:C	2.53	0.47
2:O:153:HIS:O	2:O:154:LYS:C	2.52	0.47
3:W:382:ASP:O	3:W:387:ARG:HD2	2.14	0.47
3:W:385:LEU:HD13	3:W:939:VAL:HG22	1.96	0.47
1:A:148:TRP:CH2	1:A:246:HIS:HB2	2.49	0.47
1:A:311:HIS:ND1	1:A:311:HIS:N	2.63	0.47
1:A:742:GLY:CA	1:B:285:ILE:HD11	2.44	0.47
1:B:95:ILE:O	1:B:97:THR:N	2.46	0.47
1:B:481:ARG:HG2	2:I:65:LEU:CD1	2.44	0.47
1:B:513:LEU:O	1:B:516:GLN:OE1	2.32	0.47
1:B:666:ARG:HG2	1:B:667:ASP:H	1.79	0.47
1:B:735:LEU:HD21	1:B:759:LEU:CB	2.45	0.47
2:C:115:SER:O	2:C:119:LEU:HG	2.15	0.47
2:E:32:GLN:O	2:E:33:GLN:C	2.52	0.47
2:F:133:SER:O	2:F:136:ILE:HG22	2.14	0.47
2:J:129:PHE:O	2:J:131:ASN:ND2	2.47	0.47
2:K:125:LYS:O	2:K:127:ILE:N	2.45	0.47
2:N:23:LEU:HD23	2:N:24:TYR:N	2.29	0.47
2:O:115:SER:O	2:O:119:LEU:HG	2.14	0.47
1:A:338:GLU:HG3	1:A:338:GLU:O	2.14	0.47
1:A:527:ARG:HH11	1:A:531:ARG:HH21	1.63	0.47
1:A:596:SER:HB3	1:A:599:THR:OG1	2.15	0.47
1:A:723:ILE:O	1:A:824:LYS:HD2	2.14	0.47
1:B:593:VAL:HG12	1:B:594:ILE:N	2.30	0.47
2:E:346:VAL:CG2	2:E:385:VAL:HG13	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:78:VAL:O	2:F:81:ALA:HB3	2.14	0.47
2:G:153:HIS:O	2:G:154:LYS:C	2.53	0.47
2:I:144:ARG:O	2:I:145:ARG:HB2	2.15	0.47
2:K:100:MET:HG3	2:K:388:VAL:HG11	1.95	0.47
2:M:53:ASN:O	2:M:353:TYR:HD2	1.97	0.47
2:N:152:PHE:HD2	2:N:337:ASP:HB3	1.78	0.47
3:W:1058:TYR:HD2	3:W:1063:MET:HG2	1.79	0.47
1:A:133:ILE:O	1:A:134:TYR:HD2	1.97	0.47
1:A:205:ALA:O	1:A:206:SER:C	2.52	0.47
1:A:248:ILE:O	1:A:251:ALA:HB3	2.14	0.47
1:A:450:GLY:O	1:A:451:ASP:CB	2.62	0.47
1:A:454:THR:HB	1:A:457:GLN:CB	2.44	0.47
1:A:494:ASN:CG	1:A:495:ASP:N	2.67	0.47
1:A:508:GLU:HG2	1:A:512:GLN:HE21	1.75	0.47
1:A:516:GLN:C	1:A:518:PHE:H	2.18	0.47
1:A:699:ILE:HA	1:A:763:LEU:O	2.14	0.47
1:A:772:ILE:HA	1:A:775:ILE:CD1	2.45	0.47
1:B:122:LEU:O	1:B:253:ASN:OD1	2.32	0.47
1:B:211:ILE:C	1:B:213:GLN:N	2.67	0.47
1:B:308:LEU:HD23	1:B:308:LEU:HA	1.73	0.47
1:B:548:ARG:O	1:B:551:ALA:HB3	2.15	0.47
1:B:583:SER:O	1:B:584:LEU:C	2.53	0.47
1:B:721:VAL:CG1	1:B:722:ASN:N	2.77	0.47
1:B:725:ARG:H	1:B:725:ARG:CD	2.22	0.47
1:B:852:SER:O	1:B:854:LEU:N	2.46	0.47
2:F:72:ASN:ND2	2:H:126:ARG:HH11	2.12	0.47
2:F:142:GLN:HE21	2:F:143:ASN:N	2.12	0.47
2:H:23:LEU:N	2:H:26:ASN:HD22	2.12	0.47
2:I:102:ARG:HG2	2:I:102:ARG:HH11	1.80	0.47
2:I:124:PHE:C	2:I:126:ARG:N	2.68	0.47
2:I:139:TRP:HE1	2:I:143:ASN:HD22	1.62	0.47
2:J:63:PHE:CD2	2:J:84:THR:HG23	2.50	0.47
2:K:32:GLN:O	2:K:33:GLN:C	2.53	0.47
2:L:32:GLN:O	2:L:33:GLN:C	2.52	0.47
2:L:37:MET:O	2:L:38:ILE:C	2.53	0.47
2:L:128:ASN:ND2	2:M:19:VAL:HG21	2.30	0.47
2:M:27:VAL:HG21	2:M:31:ILE:HD11	1.97	0.47
2:N:11:LEU:O	2:N:15:ARG:N	2.39	0.47
2:N:115:SER:O	2:N:119:LEU:HG	2.15	0.47
2:N:124:PHE:O	2:N:127:ILE:HG13	2.15	0.47
3:W:24:ILE:HG21	3:W:46:LEU:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:449:LEU:HD22	3:W:573:VAL:HG11	1.95	0.47
3:W:633:ASN:OD1	3:W:633:ASN:O	2.33	0.47
3:W:687:ILE:HG22	3:W:899:PHE:O	2.15	0.47
3:W:1013:ASP:O	3:W:1016:LYS:HG2	2.15	0.47
3:W:1068:LYS:HA	3:W:1068:LYS:HE3	1.96	0.47
1:A:428:GLN:CD	1:A:456:PHE:N	2.67	0.47
1:A:510:LEU:HD12	1:A:513:LEU:HD12	1.96	0.47
1:A:510:LEU:CD2	1:A:540:LEU:HD13	2.29	0.47
1:A:578:LEU:HA	1:A:581:VAL:CG2	2.44	0.47
1:A:594:ILE:HG12	1:A:595:PRO:HD2	1.95	0.47
1:A:647:LYS:C	1:A:649:LEU:N	2.68	0.47
1:A:763:LEU:HD23	1:A:764:PRO:CD	2.44	0.47
1:B:73:LEU:HB2	3:W:509:PHE:O	2.15	0.47
1:B:360:ILE:O	1:B:361:GLN:HB2	2.15	0.47
1:B:458:ILE:HD12	1:B:459:ALA:CA	2.45	0.47
1:B:480:PHE:CE2	1:B:493:LEU:CB	2.96	0.47
1:B:549:LEU:HD12	1:B:549:LEU:HA	1.64	0.47
2:D:115:SER:O	2:D:119:LEU:HG	2.15	0.47
2:D:346:VAL:CG2	2:D:385:VAL:HG13	2.44	0.47
2:F:46:PHE:HE2	2:F:119:LEU:HD21	1.80	0.47
2:G:30:LEU:O	2:G:31:ILE:C	2.52	0.47
2:I:115:SER:O	2:I:119:LEU:HG	2.14	0.47
2:K:103:GLU:HG3	2:K:359:PRO:HD2	1.95	0.47
2:L:100:MET:HG3	2:L:388:VAL:HG11	1.95	0.47
2:N:346:VAL:CG2	2:N:385:VAL:HG13	2.44	0.47
2:O:73:LEU:HD22	2:O:77:TYR:CD2	2.50	0.47
2:O:104:SER:O	2:O:108:GLY:HA3	2.15	0.47
3:W:41:PHE:HD1	3:W:62:TYR:CD2	2.33	0.47
1:A:217:THR:O	1:A:218:GLU:HB2	2.13	0.47
1:A:277:ARG:CD	1:A:559:ALA:HB2	2.43	0.47
1:A:332:VAL:O	1:A:333:VAL:C	2.53	0.47
1:A:663:TYR:O	1:A:666:ARG:N	2.47	0.47
1:A:803:ASN:ND2	1:A:806:SER:H	2.13	0.47
1:B:653:ASP:O	1:B:653:ASP:CG	2.52	0.47
1:B:845:ASN:HB3	1:B:848:PHE:CE1	2.49	0.47
1:B:854:LEU:O	1:B:856:ALA:N	2.47	0.47
2:C:106:ARG:H	2:C:106:ARG:CD	2.10	0.47
2:E:5:TYR:HE2	2:E:130:ASP:O	1.98	0.47
2:F:53:ASN:HD22	2:F:354:ALA:CB	2.26	0.47
2:I:23:LEU:HD22	2:I:25:SER:OG	2.14	0.47
2:J:27:VAL:HG21	2:J:31:ILE:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:27:VAL:O	2:K:31:ILE:HG12	2.15	0.47
2:M:32:GLN:O	2:M:33:GLN:C	2.52	0.47
2:O:135:TYR:CZ	2:O:342:MET:HE3	2.50	0.47
3:W:134:ILE:CG2	3:W:136:THR:HG22	2.45	0.47
1:A:122:LEU:CD1	1:A:201:ASP:HB2	2.45	0.47
1:A:356:GLU:HB3	1:A:357:ALA:H	1.30	0.47
1:A:461:GLN:CA	2:F:32:GLN:NE2	2.75	0.47
1:B:87:GLN:C	1:B:89:GLU:N	2.68	0.47
1:B:112:LYS:N	1:B:113:PRO:CD	2.78	0.47
1:B:354:GLN:HA	1:B:354:GLN:OE1	2.15	0.47
1:B:383:ILE:HD11	1:B:550:LEU:HD23	1.97	0.47
1:B:503:ILE:O	1:B:504:ASN:C	2.54	0.47
1:B:519:PRO:O	1:B:520:THR:OG1	2.32	0.47
1:B:645:PHE:HD2	1:B:646:LEU:CD2	2.25	0.47
1:B:752:LEU:C	1:B:754:ASN:N	2.63	0.47
2:C:150:PHE:HA	2:D:397:LYS:NZ	2.30	0.47
2:G:32:GLN:O	2:G:33:GLN:C	2.53	0.47
2:H:11:LEU:O	2:H:15:ARG:N	2.39	0.47
2:H:346:VAL:CG2	2:H:385:VAL:HG13	2.44	0.47
2:K:109:ILE:HG13	2:K:110:ALA:N	2.29	0.47
2:N:37:MET:O	2:N:38:ILE:C	2.53	0.47
2:O:65:LEU:O	2:O:66:LEU:HD23	2.15	0.47
3:W:215:MET:HA	3:W:215:MET:CE	2.45	0.47
1:A:169:LEU:HD12	1:A:169:LEU:HA	1.62	0.46
1:A:180:TYR:CD1	1:A:181:LEU:N	2.83	0.46
1:A:286:LEU:H	1:A:286:LEU:CD2	2.10	0.46
1:B:409:TRP:O	1:B:412:THR:HB	2.16	0.46
1:B:479:GLN:O	1:B:480:PHE:HB3	2.16	0.46
2:C:129:PHE:CE1	2:C:130:ASP:HB2	2.50	0.46
2:D:128:ASN:HD22	2:E:19:VAL:HG21	1.80	0.46
2:E:41:MET:O	2:E:42:ASN:C	2.52	0.46
2:F:27:VAL:O	2:F:30:LEU:N	2.47	0.46
2:F:106:ARG:HB2	2:F:106:ARG:NH1	2.30	0.46
2:I:36:GLN:HE22	2:I:126:ARG:HD3	1.80	0.46
2:I:42:ASN:OD1	2:I:62:ASP:N	2.48	0.46
2:L:27:VAL:CG2	2:L:31:ILE:HD11	2.45	0.46
2:L:57:ARG:HB3	2:L:59:TRP:CZ2	2.49	0.46
2:N:30:LEU:O	2:N:31:ILE:C	2.54	0.46
2:N:124:PHE:O	2:N:126:ARG:N	2.49	0.46
3:W:283:GLN:HG2	3:W:649:GLN:HG3	1.97	0.46
3:W:300:LEU:HD12	3:W:300:LEU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:400:ALA:HB2	3:W:470:PHE:CE2	2.50	0.46
3:W:402:ASN:N	3:W:420:LYS:HD2	2.30	0.46
3:W:827:VAL:HG13	3:W:940:TYR:CZ	2.50	0.46
3:W:924:ASP:C	3:W:944:ILE:HD13	2.35	0.46
1:A:419:PHE:N	1:A:419:PHE:CD1	2.82	0.46
1:A:746:GLN:O	1:A:750:MET:HG3	2.14	0.46
1:A:760:VAL:HG12	1:A:761:GLY:N	2.30	0.46
2:D:150:PHE:CD1	2:D:150:PHE:N	2.83	0.46
2:E:54:LEU:HD12	2:E:55:PRO:CD	2.42	0.46
2:I:128:ASN:HB3	2:J:19:VAL:CG2	2.44	0.46
2:I:144:ARG:O	2:I:145:ARG:CB	2.64	0.46
2:M:14:ALA:O	2:M:18:ILE:HD12	2.16	0.46
3:W:449:LEU:HD21	3:W:461:ILE:HD12	1.97	0.46
1:A:250:TYR:HB2	1:A:840:HIS:CD2	2.50	0.46
1:A:253:ASN:O	1:A:256:PHE:HB2	2.14	0.46
1:A:386:MET:HE3	1:A:414:VAL:HG13	1.96	0.46
1:A:499:ASN:CA	1:A:505:GLN:NE2	2.77	0.46
1:A:854:LEU:CD2	1:A:855:LEU:N	2.78	0.46
1:A:856:ALA:O	1:A:858:VAL:N	2.41	0.46
1:B:75:VAL:O	1:B:75:VAL:HG12	2.16	0.46
1:B:282:VAL:O	1:B:284:TYR:N	2.48	0.46
1:B:369:GLY:C	1:B:371:ASN:N	2.69	0.46
1:B:420:ILE:O	1:B:422:GLU:N	2.48	0.46
1:B:820:THR:HG22	1:B:820:THR:O	2.15	0.46
2:C:62:ASP:H	2:C:63:PHE:HD1	1.62	0.46
2:C:110:ALA:HB1	2:C:111:PRO:HD2	1.97	0.46
2:E:73:LEU:HD22	2:E:77:TYR:CD2	2.50	0.46
2:F:100:MET:HG3	2:F:388:VAL:HG11	1.97	0.46
2:I:32:GLN:O	2:I:33:GLN:C	2.54	0.46
2:L:153:HIS:O	2:L:154:LYS:C	2.54	0.46
2:N:66:LEU:O	2:N:67:GLY:C	2.53	0.46
2:N:76:ASN:HB2	2:O:76:ASN:HB2	1.97	0.46
3:W:109:TYR:HA	3:W:118:LEU:HD21	1.98	0.46
1:A:363:GLU:HA	1:A:366:PHE:HE1	1.80	0.46
1:A:428:GLN:HG3	1:A:456:PHE:HA	1.97	0.46
1:A:722:ASN:HB3	1:A:824:LYS:HA	1.96	0.46
1:B:500:GLY:HA3	1:B:871:PHE:HZ	1.80	0.46
1:B:818:VAL:HA	1:B:819:PRO:HD3	1.75	0.46
2:C:19:VAL:HG23	2:E:128:ASN:HB3	1.98	0.46
2:D:38:ILE:HG22	2:D:42:ASN:ND2	2.30	0.46
2:F:115:SER:O	2:F:119:LEU:HG	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:27:VAL:HG21	2:H:31:ILE:HD11	1.96	0.46
2:H:150:PHE:CD1	2:H:150:PHE:N	2.84	0.46
2:I:1:MET:C	2:I:3:VAL:N	2.67	0.46
2:J:32:GLN:O	2:J:33:GLN:C	2.54	0.46
2:K:63:PHE:CD1	2:K:63:PHE:N	2.82	0.46
2:L:153:HIS:NE2	2:M:153:HIS:CD2	2.84	0.46
2:M:128:ASN:HB3	2:N:19:VAL:HG23	1.97	0.46
3:W:129:LEU:HB2	3:W:201:TYR:OH	2.15	0.46
3:W:295:MET:O	3:W:300:LEU:HB2	2.15	0.46
3:W:1080:TYR:C	3:W:1082:ASN:H	2.19	0.46
1:A:145:ARG:HB3	1:A:147:TYR:HE1	1.79	0.46
1:A:151:LYS:O	1:A:152:LYS:CB	2.63	0.46
1:A:405:ILE:HG21	1:A:536:LEU:CG	2.43	0.46
1:A:548:ARG:HB2	1:A:877:MET:HE2	1.98	0.46
1:A:775:ILE:C	1:A:777:LYS:H	2.19	0.46
1:B:298:TYR:CD1	1:B:298:TYR:C	2.88	0.46
1:B:739:MET:C	1:B:741:THR:H	2.19	0.46
2:D:14:ALA:O	2:D:18:ILE:HD12	2.16	0.46
2:J:148:THR:OG1	2:J:332:GLU:HG2	2.15	0.46
2:J:153:HIS:O	2:J:154:LYS:C	2.53	0.46
2:K:54:LEU:HD12	2:K:55:PRO:CD	2.41	0.46
2:N:150:PHE:N	2:N:150:PHE:CD1	2.84	0.46
2:O:1:MET:O	2:O:2:ASP:C	2.53	0.46
2:O:60:ASN:C	2:O:61:PHE:CD1	2.89	0.46
2:O:141:LEU:CD1	2:O:148:THR:HG21	2.46	0.46
3:W:801:GLU:O	3:W:804:ALA:HB3	2.15	0.46
3:W:922:GLU:OE1	3:W:926:SER:N	2.49	0.46
1:A:122:LEU:CG	1:A:201:ASP:HB2	2.46	0.46
1:A:197:GLY:O	1:A:198:LYS:O	2.34	0.46
1:A:454:THR:HG22	1:A:457:GLN:H	1.80	0.46
1:A:639:LYS:HE3	1:A:659:ASP:OD1	2.15	0.46
1:A:772:ILE:O	1:A:773:SER:C	2.54	0.46
1:B:366:PHE:O	1:B:368:THR:N	2.48	0.46
1:B:490:ASN:O	1:B:492:VAL:HG23	2.15	0.46
1:B:605:ASN:ND2	1:B:855:LEU:HD12	2.30	0.46
2:I:61:PHE:CD1	2:I:61:PHE:N	2.83	0.46
2:O:139:TRP:NE1	2:O:143:ASN:ND2	2.63	0.46
3:W:180:TYR:CE1	3:W:200:PRO:HD3	2.51	0.46
1:A:299:ILE:O	1:A:301:PRO:HD3	2.15	0.46
1:A:314:PHE:CZ	1:A:664:ARG:HG2	2.51	0.46
1:A:329:ALA:HB3	1:A:384:ALA:CB	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:601:PHE:O	1:A:602:HIS:C	2.54	0.46
1:A:620:ASP:O	1:A:624:ILE:HG13	2.15	0.46
1:B:413:VAL:CG1	1:B:414:VAL:H	2.26	0.46
1:B:608:VAL:O	1:B:609:ASN:C	2.54	0.46
1:B:857:PHE:N	1:B:857:PHE:CD1	2.72	0.46
2:D:61:PHE:N	2:D:61:PHE:CD1	2.84	0.46
2:D:123:LYS:HG3	2:D:124:PHE:CE1	2.50	0.46
2:F:22:THR:CG2	2:F:73:LEU:HD12	2.45	0.46
2:F:346:VAL:CG2	2:F:385:VAL:HG13	2.44	0.46
2:K:129:PHE:CD1	2:K:129:PHE:C	2.89	0.46
2:L:49:GLY:HA2	2:L:54:LEU:HD23	1.98	0.46
3:W:101:ASP:O	3:W:103:THR:N	2.48	0.46
3:W:426:ASP:O	3:W:430:ASN:HB2	2.15	0.46
3:W:760:ASN:ND2	3:W:760:ASN:C	2.67	0.46
3:W:865:VAL:O	3:W:865:VAL:HG22	2.16	0.46
1:A:404:LEU:HB3	1:A:435:ILE:HD11	1.98	0.46
1:A:506:LEU:HD23	1:A:544:VAL:CA	2.29	0.46
1:A:660:ASP:HB3	1:B:539:ARG:NH1	2.20	0.46
1:A:706:ALA:C	1:A:708:ARG:H	2.19	0.46
1:A:708:ARG:HD2	1:A:708:ARG:HA	1.80	0.46
1:B:373:GLN:O	1:B:376:ASN:N	2.49	0.46
1:B:478:ASN:O	1:B:480:PHE:N	2.45	0.46
1:B:601:PHE:HB3	1:B:855:LEU:HD13	1.98	0.46
1:B:770:SER:O	1:B:773:SER:HB2	2.15	0.46
1:B:854:LEU:O	1:B:855:LEU:C	2.54	0.46
2:C:41:MET:O	2:C:42:ASN:C	2.53	0.46
2:C:346:VAL:CG2	2:C:385:VAL:HG13	2.44	0.46
2:F:22:THR:HG23	2:F:73:LEU:HD12	1.98	0.46
2:G:41:MET:O	2:G:42:ASN:C	2.54	0.46
2:L:153:HIS:CD2	2:N:153:HIS:NE2	2.83	0.46
2:M:346:VAL:CG2	2:M:385:VAL:HG13	2.45	0.46
2:N:61:PHE:CD1	2:N:61:PHE:N	2.84	0.46
3:W:112:ASN:OD1	3:W:202:TYR:HB2	2.16	0.46
3:W:465:LEU:HB3	3:W:469:TYR:CD2	2.50	0.46
3:W:535:ARG:HH11	3:W:565:GLN:HE22	1.63	0.46
1:A:461:GLN:CB	2:F:32:GLN:NE2	2.79	0.46
1:A:779:ASP:OD2	1:A:822:THR:O	2.34	0.46
1:A:846:LEU:HD23	1:A:846:LEU:HA	1.65	0.46
1:A:867:ASN:CG	1:A:867:ASN:O	2.54	0.46
1:B:118:LYS:CG	1:B:119:GLN:N	2.73	0.46
1:B:239:VAL:CG2	1:B:845:ASN:O	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:314:PHE:HZ	1:B:664:ARG:HG2	1.78	0.46
1:B:345:GLN:HG3	1:B:349:MET:CE	2.46	0.46
1:B:383:ILE:HD11	1:B:550:LEU:HD22	1.97	0.46
1:B:510:LEU:HD13	1:B:540:LEU:HB2	1.98	0.46
1:B:727:LEU:HG	1:B:727:LEU:O	2.15	0.46
1:B:783:PHE:O	1:B:784:ALA:C	2.54	0.46
1:B:848:PHE:O	1:B:849:THR:OG1	2.28	0.46
2:I:155:PRO:O	2:I:186:SER:HB3	2.16	0.46
2:I:382:LEU:HD22	2:I:386:PHE:CE2	2.51	0.46
2:J:27:VAL:CG2	2:J:31:ILE:HD11	2.45	0.46
2:J:142:GLN:HE21	2:J:143:ASN:N	2.13	0.46
2:L:104:SER:HB3	2:L:108:GLY:CA	2.46	0.46
2:O:22:THR:CG2	2:O:73:LEU:HD12	2.46	0.46
2:O:37:MET:O	2:O:38:ILE:C	2.54	0.46
3:W:160:LEU:O	3:W:163:TYR:HB3	2.16	0.46
3:W:310:TRP:CZ2	3:W:319:PHE:HD1	2.34	0.46
3:W:438:ILE:HD11	3:W:563:GLN:CB	2.45	0.46
1:A:245:LEU:O	1:A:246:HIS:HB2	2.16	0.46
1:A:428:GLN:OE1	1:A:456:PHE:CB	2.38	0.46
1:A:509:ALA:O	1:A:513:LEU:CG	2.55	0.46
1:A:821:SER:OG	1:A:822:THR:N	2.46	0.46
1:B:94:THR:O	1:B:94:THR:HG22	2.16	0.46
1:B:340:VAL:O	1:B:341:SER:C	2.54	0.46
1:B:613:ASN:O	1:B:617:ARG:HG2	2.16	0.46
2:D:30:LEU:O	2:D:31:ILE:C	2.53	0.46
2:F:239:ASN:ND2	2:F:246:THR:HG22	2.29	0.46
2:H:106:ARG:O	2:H:107:ASN:CB	2.62	0.46
2:H:239:ASN:ND2	2:H:246:THR:HG22	2.30	0.46
2:I:135:TYR:CE1	2:I:342:MET:HE3	2.51	0.46
2:K:346:VAL:CG2	2:K:385:VAL:HG13	2.44	0.46
3:W:105:ASN:HD22	3:W:111:ASN:HA	1.76	0.46
3:W:290:GLN:HE21	3:W:290:GLN:HB2	1.54	0.46
3:W:467:TYR:C	3:W:467:TYR:CD1	2.89	0.46
3:W:598:ALA:O	3:W:602:ILE:HG13	2.16	0.46
1:A:549:LEU:HA	1:A:549:LEU:HD12	1.65	0.45
1:B:137:ASN:O	1:B:137:ASN:CG	2.55	0.45
1:B:170:TYR:CZ	1:B:682:PHE:HB2	2.52	0.45
1:B:637:LYS:HA	1:B:641:ILE:HD11	1.97	0.45
1:B:675:GLU:O	1:B:677:ARG:N	2.49	0.45
2:G:5:TYR:HE2	2:G:131:ASN:HA	1.80	0.45
2:H:62:ASP:H	2:H:63:PHE:HD1	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:37:MET:O	2:J:38:ILE:C	2.54	0.45
2:J:382:LEU:HD22	2:J:386:PHE:CE2	2.52	0.45
2:K:382:LEU:HD22	2:K:386:PHE:CE2	2.51	0.45
2:N:1:MET:O	2:N:2:ASP:C	2.55	0.45
2:N:1:MET:C	2:N:3:VAL:N	2.69	0.45
3:W:396:SER:OG	3:W:474:HIS:NE2	2.49	0.45
1:A:416:ASN:C	1:A:418:MET:N	2.70	0.45
1:B:282:VAL:HG13	1:B:283:ASN:N	2.31	0.45
1:B:508:GLU:OE2	2:J:70:LEU:CD2	2.65	0.45
1:B:583:SER:OG	1:B:584:LEU:N	2.48	0.45
1:B:772:ILE:HG22	1:B:809:PHE:CE2	2.51	0.45
2:C:135:TYR:CZ	2:C:342:MET:HE3	2.52	0.45
2:F:17:LYS:HE2	2:H:130:ASP:OD2	2.16	0.45
2:G:109:ILE:HD12	2:G:109:ILE:O	2.17	0.45
2:H:21:GLY:O	2:H:22:THR:O	2.34	0.45
2:I:1:MET:O	2:I:2:ASP:C	2.54	0.45
2:I:30:LEU:O	2:I:31:ILE:C	2.52	0.45
2:I:36:GLN:HB2	2:J:23:LEU:HD11	1.97	0.45
2:I:89:VAL:C	2:I:91:PHE:H	2.19	0.45
2:I:136:ILE:HG23	2:I:137:GLU:N	2.31	0.45
2:L:73:LEU:HD22	2:L:77:TYR:HD2	1.77	0.45
2:L:115:SER:O	2:L:119:LEU:HG	2.15	0.45
2:M:382:LEU:HD22	2:M:386:PHE:CE2	2.52	0.45
3:W:186:ASN:O	3:W:189:TYR:N	2.48	0.45
3:W:302:ASP:O	3:W:306:MET:HG3	2.17	0.45
3:W:422:MET:HA	3:W:425:MET:HG3	1.99	0.45
3:W:690:ARG:O	3:W:723:ARG:NH1	2.49	0.45
3:W:872:ILE:HG13	3:W:1072:ASN:O	2.17	0.45
1:A:353:LEU:HD22	1:A:531:ARG:HB3	1.98	0.45
1:A:526:LYS:HG3	1:A:527:ARG:N	2.31	0.45
1:A:608:VAL:O	1:A:609:ASN:C	2.55	0.45
1:A:688:ASN:O	1:A:691:GLN:N	2.49	0.45
1:A:706:ALA:O	1:A:708:ARG:N	2.45	0.45
1:B:498:ARG:CZ	2:J:25:SER:HB3	2.47	0.45
1:B:542:GLN:N	1:B:542:GLN:OE1	2.49	0.45
1:B:594:ILE:HD12	1:B:594:ILE:O	2.17	0.45
1:B:633:LEU:O	1:B:635:GLN:N	2.48	0.45
1:B:872:ASP:CG	1:B:874:MET:H	2.20	0.45
2:C:59:TRP:N	2:C:59:TRP:CD1	2.83	0.45
2:C:124:PHE:O	2:C:127:ILE:HG13	2.16	0.45
2:E:190:VAL:HG21	2:E:210:HIS:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:32:GLN:O	2:F:33:GLN:C	2.54	0.45
2:H:382:LEU:HD22	2:H:386:PHE:CE2	2.51	0.45
2:J:78:VAL:O	2:J:81:ALA:N	2.40	0.45
2:K:24:TYR:O	2:K:27:VAL:HG22	2.16	0.45
2:L:22:THR:CG2	2:L:73:LEU:HD12	2.24	0.45
2:L:239:ASN:ND2	2:L:246:THR:HG22	2.29	0.45
2:M:53:ASN:HD22	2:M:354:ALA:HB3	1.81	0.45
2:N:24:TYR:CE1	2:N:31:ILE:HG13	2.51	0.45
3:W:64:ASP:OD2	3:W:65:VAL:N	2.48	0.45
3:W:125:TYR:HE1	3:W:201:TYR:HE1	1.63	0.45
3:W:819:LEU:C	3:W:820:LEU:HD23	2.37	0.45
1:A:266:ASN:C	1:A:292:LEU:HD12	2.36	0.45
1:A:466:PHE:O	1:A:467:GLN:C	2.54	0.45
1:A:518:PHE:CB	1:A:519:PRO:CD	2.94	0.45
1:A:688:ASN:O	1:A:690:ASP:N	2.50	0.45
1:B:119:GLN:CG	1:B:181:LEU:HD11	2.46	0.45
1:B:159:ASP:O	1:B:162:VAL:HB	2.16	0.45
1:B:420:ILE:O	1:B:421:ARG:C	2.54	0.45
1:B:589:GLY:C	1:B:591:ALA:H	2.20	0.45
2:C:37:MET:O	2:C:38:ILE:C	2.55	0.45
2:D:1:MET:C	2:D:3:VAL:N	2.70	0.45
2:D:37:MET:O	2:D:38:ILE:C	2.55	0.45
2:J:1:MET:C	2:J:3:VAL:N	2.68	0.45
2:L:89:VAL:C	2:L:91:PHE:H	2.20	0.45
2:M:144:ARG:O	2:M:145:ARG:HB2	2.17	0.45
3:W:180:TYR:CD1	3:W:200:PRO:HD3	2.51	0.45
3:W:479:LYS:HD3	3:W:479:LYS:HA	1.85	0.45
3:W:705:THR:O	3:W:709:GLN:HB2	2.16	0.45
1:A:857:PHE:N	1:A:857:PHE:CD1	2.83	0.45
1:B:205:ALA:O	1:B:206:SER:C	2.55	0.45
1:B:434:THR:O	1:B:435:ILE:CG1	2.65	0.45
1:B:854:LEU:HD22	1:B:855:LEU:H	1.82	0.45
2:C:382:LEU:HD22	2:C:386:PHE:CE2	2.51	0.45
2:D:190:VAL:HG21	2:D:210:HIS:HB2	1.99	0.45
2:D:382:LEU:HD22	2:D:386:PHE:CE2	2.52	0.45
2:I:225:LEU:HD13	2:I:277:PHE:HD2	1.82	0.45
2:M:130:ASP:HA	2:N:17:LYS:HG2	1.98	0.45
2:N:110:ALA:HB1	2:N:111:PRO:HD2	1.99	0.45
3:W:161:LYS:HB3	3:W:165:ARG:NH1	2.28	0.45
3:W:247:PRO:O	3:W:251:LEU:HG	2.17	0.45
3:W:944:ILE:HG23	3:W:945:GLU:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:246:HIS:O	1:A:247:PRO:C	2.54	0.45
1:A:367:LEU:CD2	3:W:932:ARG:HB2	2.46	0.45
1:A:482:GLN:OE1	1:A:493:LEU:CD2	2.64	0.45
1:A:712:LEU:CG	1:A:819:PRO:HB2	2.40	0.45
1:A:804:SER:HB2	1:A:810:TYR:CA	2.47	0.45
1:A:822:THR:O	1:A:823:THR:CB	2.64	0.45
1:B:646:LEU:HD23	1:B:646:LEU:N	2.32	0.45
1:B:852:SER:O	1:B:853:ASP:HB3	2.16	0.45
2:C:128:ASN:O	2:D:22:THR:HB	2.17	0.45
2:C:190:VAL:HG21	2:C:210:HIS:HB2	1.99	0.45
2:D:24:TYR:O	2:D:26:ASN:N	2.50	0.45
2:D:78:VAL:O	2:D:81:ALA:HB3	2.17	0.45
2:E:312:GLN:HB3	2:E:313:PRO:HA	1.99	0.45
2:H:32:GLN:O	2:H:33:GLN:C	2.54	0.45
2:H:107:ASN:ND2	2:H:109:ILE:HG23	2.32	0.45
2:H:190:VAL:HG21	2:H:210:HIS:HB2	1.99	0.45
2:L:190:VAL:HG21	2:L:210:HIS:HB2	1.99	0.45
2:M:155:PRO:HA	2:M:337:ASP:HB2	1.99	0.45
3:W:4:TYR:CD1	3:W:733:LEU:HD22	2.33	0.45
3:W:410:PHE:CE2	3:W:415:ILE:HD11	2.52	0.45
3:W:477:VAL:HA	3:W:480:MET:HE2	1.99	0.45
3:W:501:LEU:O	3:W:501:LEU:HD12	2.17	0.45
3:W:874:ILE:CG2	3:W:875:ASN:N	2.80	0.45
1:A:155:LEU:HA	1:A:156:PRO:HD3	1.55	0.45
1:A:319:ASP:OD2	1:A:571:LEU:N	2.49	0.45
1:A:546:LEU:HD13	1:A:584:LEU:HD23	1.97	0.45
1:B:85:GLU:O	1:B:86:ILE:C	2.54	0.45
1:B:419:PHE:O	1:B:420:ILE:C	2.54	0.45
1:B:554:TYR:O	1:B:558:MET:HB2	2.17	0.45
1:B:577:GLN:O	1:B:579:THR:N	2.50	0.45
1:B:601:PHE:CD1	1:B:601:PHE:N	2.80	0.45
1:B:742:GLY:O	1:B:744:TYR:HE2	1.98	0.45
1:B:772:ILE:O	1:B:773:SER:C	2.54	0.45
2:D:54:LEU:HD12	2:D:55:PRO:CD	2.46	0.45
2:E:11:LEU:O	2:E:15:ARG:N	2.41	0.45
2:E:382:LEU:HD22	2:E:386:PHE:CE2	2.51	0.45
2:F:190:VAL:HG21	2:F:210:HIS:HB2	1.99	0.45
2:G:150:PHE:HB2	2:G:152:PHE:CZ	2.51	0.45
2:H:105:GLN:O	2:H:107:ASN:N	2.50	0.45
2:H:312:GLN:HB3	2:H:313:PRO:HA	1.99	0.45
2:J:60:ASN:C	2:J:61:PHE:CD1	2.90	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:382:LEU:HD22	2:L:386:PHE:CE2	2.52	0.45
2:M:110:ALA:HB1	2:M:111:PRO:HD2	1.99	0.45
2:N:23:LEU:HD22	2:N:25:SER:OG	2.17	0.45
3:W:448:PRO:HB2	3:W:464:ILE:HB	1.99	0.45
1:A:252:PHE:CD2	1:A:684:LEU:CD2	3.00	0.45
1:A:339:LEU:O	1:A:340:VAL:C	2.55	0.45
1:A:452:PRO:O	1:A:453:GLN:OE1	2.35	0.45
1:A:454:THR:O	1:A:457:GLN:HB3	2.17	0.45
1:A:503:ILE:O	1:A:505:GLN:N	2.50	0.45
1:A:506:LEU:CD2	1:A:544:VAL:CA	2.94	0.45
1:A:580:SER:O	1:A:581:VAL:C	2.55	0.45
1:B:400:ASN:O	1:B:404:LEU:CD1	2.65	0.45
1:B:601:PHE:O	1:B:602:HIS:C	2.53	0.45
2:D:225:LEU:HD13	2:D:277:PHE:HD2	1.82	0.45
2:E:37:MET:O	2:E:38:ILE:C	2.54	0.45
2:E:154:LYS:N	2:E:327:GLU:O	2.42	0.45
2:F:312:GLN:HB3	2:F:313:PRO:HA	1.99	0.45
2:G:382:LEU:HD22	2:G:386:PHE:CE2	2.51	0.45
2:H:48:THR:O	2:H:56:ILE:HA	2.17	0.45
2:I:42:ASN:OD1	2:I:61:PHE:HB3	2.16	0.45
2:I:145:ARG:O	2:I:146:GLN:CG	2.65	0.45
2:J:41:MET:O	2:J:42:ASN:C	2.54	0.45
2:J:225:LEU:HD13	2:J:277:PHE:HD2	1.82	0.45
2:M:225:LEU:HD13	2:M:277:PHE:HD2	1.82	0.45
2:O:217:VAL:HG22	2:O:286:ASP:HB3	1.99	0.45
3:W:538:ILE:HD12	3:W:565:GLN:NE2	2.31	0.45
3:W:695:LEU:HD21	3:W:732:ILE:CD1	2.47	0.45
3:W:840:ASN:OD1	3:W:846:SER:HA	2.16	0.45
1:A:186:MET:HG3	1:A:200:VAL:HG13	1.98	0.45
1:A:583:SER:OG	1:A:584:LEU:N	2.50	0.45
1:A:762:ALA:C	1:A:763:LEU:HG	2.37	0.45
1:A:783:PHE:N	1:A:783:PHE:CD1	2.72	0.45
1:B:119:GLN:NE2	1:B:181:LEU:HD11	2.32	0.45
1:B:277:ARG:HB3	1:B:277:ARG:HH11	1.80	0.45
1:B:496:ASN:HB3	1:B:499:ASN:H	1.82	0.45
1:B:573:THR:CG2	1:B:574:GLU:N	2.45	0.45
1:B:771:VAL:HG21	1:B:809:PHE:O	2.17	0.45
1:B:786:ILE:HG22	1:B:792:VAL:HG12	1.98	0.45
2:C:127:ILE:HG22	2:C:127:ILE:O	2.15	0.45
2:C:136:ILE:HG23	2:C:137:GLU:N	2.32	0.45
2:E:225:LEU:HD13	2:E:277:PHE:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:225:LEU:HD13	2:F:277:PHE:HD2	1.82	0.45
2:F:382:LEU:HD22	2:F:386:PHE:CE2	2.52	0.45
2:H:30:LEU:O	2:H:31:ILE:C	2.53	0.45
2:I:217:VAL:HG22	2:I:286:ASP:HB3	1.99	0.45
2:I:273:TYR:C	2:I:274:GLN:HE21	2.20	0.45
2:J:70:LEU:HD22	2:J:72:ASN:O	2.16	0.45
2:J:89:VAL:C	2:J:91:PHE:H	2.21	0.45
2:M:312:GLN:HB3	2:M:313:PRO:HA	1.99	0.45
2:N:89:VAL:C	2:N:91:PHE:H	2.21	0.45
2:O:131:ASN:N	2:O:131:ASN:HD22	2.14	0.45
2:O:190:VAL:HG21	2:O:210:HIS:HB2	1.99	0.45
2:O:225:LEU:HD13	2:O:277:PHE:HD2	1.82	0.45
2:O:273:TYR:C	2:O:274:GLN:HE21	2.21	0.45
3:W:301:VAL:O	3:W:304:PRO:HD2	2.17	0.45
1:A:224:PHE:O	1:A:225:ILE:C	2.55	0.45
1:A:269:ILE:HG21	1:A:298:TYR:CE2	2.51	0.45
1:A:428:GLN:HG2	1:A:429:LEU:H	1.79	0.45
1:A:866:ILE:HG22	1:A:866:ILE:O	2.17	0.45
1:B:467:GLN:HE21	1:B:511:MET:HG2	1.82	0.45
1:B:596:SER:O	1:B:597:PRO:C	2.55	0.45
1:B:772:ILE:CG2	1:B:809:PHE:HE2	2.29	0.45
1:B:846:LEU:HD12	1:B:847:THR:N	2.32	0.45
2:C:32:GLN:O	2:C:33:GLN:C	2.54	0.45
2:C:217:VAL:HG22	2:C:286:ASP:HB3	1.99	0.45
2:G:190:VAL:HG21	2:G:210:HIS:HB2	1.99	0.45
2:H:126:ARG:C	2:H:127:ILE:HG13	2.37	0.45
2:J:217:VAL:HG22	2:J:286:ASP:HB3	1.99	0.45
2:J:312:GLN:HB3	2:J:313:PRO:HA	1.99	0.45
2:K:190:VAL:HG21	2:K:210:HIS:HB2	1.99	0.45
2:M:42:ASN:HA	2:M:61:PHE:CB	2.46	0.45
2:N:135:TYR:CZ	2:N:342:MET:HE3	2.53	0.45
2:N:382:LEU:HD22	2:N:386:PHE:CE2	2.52	0.45
1:A:117:LYS:HB2	1:A:179:ASP:CG	2.37	0.44
1:A:118:LYS:CG	1:A:119:GLN:H	2.29	0.44
1:A:420:ILE:HD11	1:A:423:SER:HB2	1.99	0.44
1:A:587:LEU:O	1:A:587:LEU:HD22	2.17	0.44
1:A:680:ASP:HA	1:A:683:ASN:HD22	1.81	0.44
1:B:428:GLN:CB	1:B:456:PHE:CD1	2.90	0.44
1:B:763:LEU:HD22	1:B:764:PRO:HD3	1.99	0.44
2:C:1:MET:C	2:C:3:VAL:N	2.70	0.44
2:D:136:ILE:HG23	2:D:137:GLU:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:217:VAL:HG22	2:D:286:ASP:HB3	1.99	0.44
2:E:44:ASN:HB3	2:E:46:PHE:HE1	1.81	0.44
2:G:78:VAL:O	2:G:81:ALA:HB3	2.18	0.44
2:G:273:TYR:C	2:G:274:GLN:HE21	2.20	0.44
2:G:312:GLN:HB3	2:G:313:PRO:HA	1.99	0.44
2:I:190:VAL:HG21	2:I:210:HIS:HB2	1.99	0.44
2:J:153:HIS:NE2	2:K:153:HIS:CD2	2.84	0.44
2:K:37:MET:O	2:K:38:ILE:C	2.55	0.44
2:K:225:LEU:HD13	2:K:277:PHE:HD2	1.82	0.44
2:L:60:ASN:C	2:L:61:PHE:CD1	2.91	0.44
2:L:225:LEU:HD13	2:L:277:PHE:HD2	1.82	0.44
2:L:312:GLN:HB3	2:L:313:PRO:HA	1.99	0.44
3:W:105:ASN:HB2	3:W:111:ASN:OD1	2.18	0.44
3:W:580:VAL:HG12	3:W:581:ILE:N	2.32	0.44
1:A:101:LYS:C	1:A:103:SER:H	2.20	0.44
1:A:270:ILE:HD11	1:A:292:LEU:CD1	2.23	0.44
1:A:286:LEU:O	1:A:287:ASN:CB	2.65	0.44
1:A:296:ALA:C	1:A:297:ARG:HG2	2.38	0.44
1:A:348:LYS:O	1:A:351:GLN:HB2	2.17	0.44
1:B:148:TRP:HE1	1:B:833:PHE:HD1	1.64	0.44
1:B:226:ALA:O	1:B:228:MET:N	2.50	0.44
1:B:248:ILE:O	1:B:251:ALA:HB3	2.17	0.44
1:B:374:ALA:O	1:B:580:SER:HB2	2.17	0.44
1:B:420:ILE:O	1:B:420:ILE:HG23	2.18	0.44
1:B:463:ILE:HD12	1:B:472:LEU:CD1	2.47	0.44
2:C:22:THR:HG23	2:C:73:LEU:CD1	2.46	0.44
2:C:54:LEU:HD12	2:C:55:PRO:CD	2.44	0.44
2:F:78:VAL:O	2:F:81:ALA:N	2.43	0.44
2:F:273:TYR:C	2:F:274:GLN:HE21	2.21	0.44
2:I:140:ASN:O	2:I:143:ASN:N	2.50	0.44
2:J:1:MET:O	2:J:2:ASP:C	2.54	0.44
2:M:239:ASN:ND2	2:M:246:THR:HG22	2.30	0.44
2:N:225:LEU:HD13	2:N:277:PHE:HD2	1.82	0.44
2:O:1:MET:C	2:O:3:VAL:N	2.68	0.44
2:O:382:LEU:HD22	2:O:386:PHE:CE2	2.51	0.44
3:W:437:ILE:O	3:W:439:PRO:HD3	2.17	0.44
1:A:229:ARG:O	1:A:242:PRO:HG3	2.18	0.44
1:A:556:THR:O	1:A:558:MET:N	2.51	0.44
1:A:660:ASP:OD1	1:A:661:GLN:N	2.50	0.44
1:A:674:VAL:HB	1:A:679:LEU:HB2	1.99	0.44
1:B:183:LEU:HD12	1:B:844:SER:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:368:THR:HG22	1:B:371:ASN:ND2	2.26	0.44
1:B:382:LEU:HD12	1:B:382:LEU:HA	1.62	0.44
1:B:447:TYR:C	1:B:448:ARG:HG2	2.38	0.44
1:B:674:VAL:O	1:B:675:GLU:C	2.54	0.44
1:B:757:VAL:HG12	1:B:758:ALA:N	2.32	0.44
2:C:27:VAL:O	2:C:30:LEU:HB3	2.17	0.44
2:C:69:THR:OG1	2:C:70:LEU:N	2.49	0.44
2:C:89:VAL:C	2:C:91:PHE:H	2.21	0.44
2:F:153:HIS:CD2	2:H:153:HIS:NE2	2.86	0.44
2:K:78:VAL:O	2:K:81:ALA:N	2.40	0.44
2:K:111:PRO:O	2:K:112:GLN:HG2	2.17	0.44
2:K:239:ASN:ND2	2:K:246:THR:HG22	2.29	0.44
2:L:136:ILE:HG23	2:L:137:GLU:N	2.32	0.44
1:A:597:PRO:HB3	1:A:860:ALA:HB1	1.99	0.44
1:A:804:SER:CB	1:A:810:TYR:HA	2.48	0.44
1:B:158:GLY:O	1:B:159:ASP:C	2.56	0.44
1:B:250:TYR:HB2	1:B:840:HIS:CD2	2.53	0.44
1:B:361:GLN:NE2	3:W:624:LYS:HZ1	2.12	0.44
1:B:630:ARG:O	1:B:631:LEU:CG	2.62	0.44
1:B:751:LEU:O	1:B:754:ASN:HA	2.16	0.44
1:B:790:ARG:CG	1:B:791:LYS:N	2.71	0.44
2:C:63:PHE:CD2	2:C:84:THR:HG23	2.52	0.44
2:C:145:ARG:CB	2:C:145:ARG:HH11	2.30	0.44
2:C:152:PHE:O	2:C:328:SER:HA	2.17	0.44
2:E:1:MET:C	2:E:3:VAL:N	2.68	0.44
2:E:66:LEU:HB3	2:E:77:TYR:OH	2.16	0.44
2:E:78:VAL:O	2:E:81:ALA:HB3	2.17	0.44
2:F:48:THR:HG22	2:F:115:SER:OG	2.18	0.44
2:J:89:VAL:C	2:J:91:PHE:N	2.71	0.44
2:J:225:LEU:HD13	2:J:277:PHE:CD2	2.53	0.44
2:K:27:VAL:CG2	2:K:31:ILE:HD11	2.48	0.44
2:L:34:PHE:O	2:L:37:MET:HB3	2.17	0.44
2:N:190:VAL:HG21	2:N:210:HIS:HB2	1.99	0.44
2:O:89:VAL:C	2:O:91:PHE:H	2.21	0.44
3:W:223:TYR:CZ	3:W:227:LYS:HD2	2.53	0.44
3:W:473:GLN:NE2	3:W:593:GLU:HB3	2.29	0.44
1:A:130:GLN:NE2	1:A:146:TRP:CZ2	2.85	0.44
1:A:513:LEU:CA	1:A:516:GLN:NE2	2.65	0.44
1:A:557:LEU:O	1:A:558:MET:C	2.55	0.44
1:A:870:ALA:C	1:A:872:ASP:H	2.20	0.44
1:B:277:ARG:CB	1:B:277:ARG:HH11	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:446:HIS:O	1:B:447:TYR:CB	2.49	0.44
1:B:498:ARG:HH11	1:B:502:VAL:HG11	1.83	0.44
1:B:707:TYR:N	1:B:707:TYR:CD1	2.85	0.44
2:D:75:ALA:HB3	2:L:76:ASN:HA	2.00	0.44
2:F:82:ARG:CZ	2:H:144:ARG:HD2	2.47	0.44
2:G:239:ASN:ND2	2:G:246:THR:HG22	2.29	0.44
2:H:37:MET:O	2:H:38:ILE:C	2.55	0.44
2:I:101:VAL:HG11	2:I:355:ILE:HG13	1.99	0.44
2:J:273:TYR:C	2:J:274:GLN:HE21	2.20	0.44
2:K:1:MET:O	2:K:2:ASP:C	2.54	0.44
2:K:1:MET:C	2:K:3:VAL:N	2.68	0.44
2:K:136:ILE:HG23	2:K:137:GLU:N	2.32	0.44
2:L:273:TYR:C	2:L:274:GLN:HE21	2.21	0.44
2:M:136:ILE:HG23	2:M:137:GLU:N	2.33	0.44
2:M:150:PHE:O	2:M:330:VAL:HG13	2.17	0.44
2:N:38:ILE:HG22	2:N:42:ASN:ND2	2.29	0.44
2:N:78:VAL:O	2:N:81:ALA:HB3	2.17	0.44
3:W:232:LEU:CD2	3:W:300:LEU:HD12	2.46	0.44
3:W:241:ALA:HB2	3:W:332:VAL:HG21	2.00	0.44
3:W:448:PRO:HD2	3:W:464:ILE:O	2.17	0.44
3:W:840:ASN:HA	3:W:845:ILE:HG21	1.97	0.44
1:A:488:VAL:O	1:A:490:ASN:N	2.51	0.44
1:A:516:GLN:OE1	1:A:517:GLN:N	2.50	0.44
1:A:701:GLN:CG	1:A:826:TYR:CD2	3.00	0.44
1:A:727:LEU:O	1:A:727:LEU:CD1	2.65	0.44
1:A:771:VAL:HG13	1:A:772:ILE:N	2.22	0.44
1:B:393:SER:HA	1:B:423:SER:CB	2.47	0.44
1:B:449:ASN:ND2	1:B:455:PRO:HG3	2.33	0.44
1:B:680:ASP:HA	1:B:683:ASN:HD22	1.82	0.44
1:B:727:LEU:HD23	1:B:826:TYR:CE1	2.53	0.44
2:E:225:LEU:HD13	2:E:277:PHE:CD2	2.53	0.44
2:E:273:TYR:C	2:E:274:GLN:HE21	2.21	0.44
2:F:11:LEU:O	2:F:15:ARG:N	2.40	0.44
2:F:37:MET:O	2:F:38:ILE:C	2.56	0.44
2:F:41:MET:O	2:F:42:ASN:C	2.56	0.44
2:F:249:PHE:CE2	2:F:251:PRO:HG3	2.53	0.44
2:G:33:GLN:HB2	2:H:26:ASN:OD1	2.16	0.44
2:G:104:SER:O	2:G:108:GLY:CA	2.66	0.44
2:H:67:GLY:O	2:H:69:THR:N	2.51	0.44
2:I:24:TYR:N	2:I:71:LEU:O	2.51	0.44
2:K:273:TYR:C	2:K:274:GLN:HE21	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:225:LEU:HD13	2:M:277:PHE:CD2	2.53	0.44
2:M:273:TYR:C	2:M:274:GLN:HE21	2.20	0.44
2:N:63:PHE:CD1	2:N:63:PHE:N	2.85	0.44
2:O:125:LYS:C	2:O:127:ILE:H	2.21	0.44
2:O:136:ILE:HG23	2:O:137:GLU:N	2.32	0.44
3:W:123:GLU:N	3:W:123:GLU:CD	2.71	0.44
3:W:148:TRP:CE3	3:W:149:LEU:HD23	2.52	0.44
3:W:424:VAL:O	3:W:428:MET:HG3	2.17	0.44
3:W:948:TYR:OH	3:W:1071:TRP:HA	2.18	0.44
1:A:312:ASP:O	1:A:313:ASN:CB	2.63	0.44
1:A:795:LEU:HD12	1:A:795:LEU:HA	1.74	0.44
1:B:428:GLN:HA	1:B:431:ILE:CD1	2.42	0.44
1:B:519:PRO:O	1:B:520:THR:CB	2.66	0.44
1:B:738:LEU:HD12	1:B:738:LEU:HA	1.82	0.44
2:C:3:VAL:O	2:C:4:LEU:C	2.56	0.44
2:D:73:LEU:HD23	2:D:73:LEU:N	2.33	0.44
2:D:249:PHE:CE2	2:D:251:PRO:HG3	2.53	0.44
2:G:23:LEU:HD23	2:G:23:LEU:C	2.38	0.44
2:H:142:GLN:NE2	2:H:143:ASN:N	2.65	0.44
2:H:217:VAL:HG22	2:H:286:ASP:HB3	2.00	0.44
2:H:249:PHE:CE2	2:H:251:PRO:HG3	2.53	0.44
2:I:46:PHE:HE2	2:I:119:LEU:HD21	1.83	0.44
2:I:225:LEU:HD13	2:I:277:PHE:CD2	2.53	0.44
2:J:78:VAL:O	2:J:81:ALA:HB3	2.17	0.44
2:K:14:ALA:O	2:K:16:ASP:N	2.51	0.44
2:K:110:ALA:HB1	2:K:111:PRO:HD2	2.00	0.44
2:K:312:GLN:HB3	2:K:313:PRO:HA	1.99	0.44
2:M:151:THR:C	2:M:152:PHE:CD1	2.91	0.44
2:M:249:PHE:CE2	2:M:251:PRO:HG3	2.53	0.44
2:N:217:VAL:HG22	2:N:286:ASP:HB3	2.00	0.44
2:O:153:HIS:CD2	2:O:154:LYS:N	2.86	0.44
2:O:169:SER:HA	2:O:176:LEU:HD23	2.00	0.44
2:O:225:LEU:HD13	2:O:277:PHE:CD2	2.53	0.44
3:W:770:ASP:O	3:W:771:PHE:HB2	2.18	0.44
1:A:625:ILE:H	1:A:625:ILE:HG13	1.62	0.44
1:B:108:LEU:N	1:B:108:LEU:CD2	2.79	0.44
1:B:155:LEU:HA	1:B:156:PRO:HD3	1.81	0.44
1:B:282:VAL:HG13	1:B:283:ASN:H	1.83	0.44
1:B:305:GLN:OE1	1:B:305:GLN:HA	2.18	0.44
1:B:404:LEU:O	1:B:405:ILE:C	2.55	0.44
1:B:487:GLY:O	1:B:488:VAL:CB	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:508:GLU:O	1:B:512:GLN:NE2	2.48	0.44
2:C:249:PHE:CE2	2:C:251:PRO:HG3	2.53	0.44
2:D:66:LEU:HA	2:D:66:LEU:HD23	1.72	0.44
2:E:217:VAL:HG22	2:E:286:ASP:HB3	2.00	0.44
2:F:169:SER:HA	2:F:176:LEU:HD23	2.00	0.44
2:G:169:SER:HA	2:G:176:LEU:HD23	2.00	0.44
2:I:122:LEU:C	2:I:124:PHE:H	2.21	0.44
2:J:103:GLU:OE1	2:J:358:GLY:HA3	2.18	0.44
2:K:14:ALA:C	2:K:18:ILE:HD12	2.39	0.44
2:K:227:PRO:HD3	2:K:277:PHE:CG	2.53	0.44
2:L:225:LEU:HD13	2:L:277:PHE:CD2	2.53	0.44
2:M:217:VAL:HG22	2:M:286:ASP:HB3	1.99	0.44
2:O:312:GLN:HB3	2:O:313:PRO:HA	1.99	0.44
3:W:758:THR:HG22	3:W:766:PHE:C	2.37	0.44
3:W:897:GLN:OE1	3:W:897:GLN:N	2.49	0.44
1:A:160:TYR:HE1	1:A:633:LEU:HA	1.83	0.44
1:A:181:LEU:H	1:A:260:GLN:HE21	1.65	0.44
1:A:245:LEU:O	1:A:246:HIS:CB	2.66	0.44
1:A:618:ILE:HD13	1:A:645:PHE:HZ	1.83	0.44
1:A:799:LEU:HD22	1:A:800:TYR:H	1.82	0.44
1:B:101:LYS:HB2	1:B:102:GLU:H	1.68	0.44
1:B:111:ILE:HG22	1:B:113:PRO:CD	2.48	0.44
1:B:122:LEU:HD12	1:B:124:ARG:HH22	1.82	0.44
1:B:207:ILE:O	1:B:210:ALA:HB3	2.18	0.44
1:B:353:LEU:O	1:B:353:LEU:HD23	2.18	0.44
1:B:473:HIS:HB3	2:I:126:ARG:NH1	2.26	0.44
1:B:496:ASN:HD22	1:B:498:ARG:HB2	1.83	0.44
1:B:543:LEU:O	1:B:546:LEU:HB2	2.18	0.44
1:B:675:GLU:O	1:B:678:ARG:N	2.51	0.44
1:B:790:ARG:CG	1:B:791:LYS:H	2.18	0.44
1:B:870:ALA:O	1:B:871:PHE:C	2.55	0.44
2:C:273:TYR:C	2:C:274:GLN:HE21	2.21	0.44
2:D:5:TYR:CE2	2:D:131:ASN:HA	2.52	0.44
2:D:169:SER:HA	2:D:176:LEU:HD23	2.00	0.44
2:E:125:LYS:C	2:E:127:ILE:H	2.21	0.44
2:E:249:PHE:CE2	2:E:251:PRO:HG3	2.53	0.44
2:G:37:MET:O	2:G:38:ILE:C	2.55	0.44
2:G:100:MET:HG3	2:G:388:VAL:HG11	1.99	0.44
2:G:150:PHE:N	2:G:150:PHE:CD1	2.86	0.44
2:H:78:VAL:O	2:H:81:ALA:HB3	2.17	0.44
2:I:63:PHE:CD1	2:I:63:PHE:N	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:49:GLY:HA2	2:K:54:LEU:HD23	1.99	0.44
2:K:89:VAL:C	2:K:91:PHE:N	2.71	0.44
2:L:63:PHE:CD2	2:L:84:THR:HG23	2.53	0.44
2:M:190:VAL:HG21	2:M:210:HIS:HB2	1.99	0.44
2:N:21:GLY:O	2:N:22:THR:C	2.56	0.44
2:N:169:SER:HA	2:N:176:LEU:HD23	2.00	0.44
2:O:78:VAL:O	2:O:81:ALA:HB3	2.18	0.44
2:O:106:ARG:HG2	2:O:107:ASN:H	1.83	0.44
3:W:832:ALA:O	3:W:836:LYS:HG3	2.17	0.44
3:W:894:ILE:O	3:W:894:ILE:HG13	2.17	0.44
1:A:119:GLN:NE2	1:A:178:PRO:HG2	2.33	0.43
1:A:428:GLN:HE22	1:A:455:PRO:HB2	1.74	0.43
1:B:293:PRO:O	1:B:295:THR:N	2.50	0.43
1:B:321:ILE:O	1:B:322:THR:C	2.57	0.43
1:B:506:LEU:CD2	1:B:544:VAL:HA	2.39	0.43
1:B:510:LEU:O	1:B:513:LEU:N	2.51	0.43
1:B:529:ILE:O	1:B:533:ILE:HG13	2.18	0.43
2:C:225:LEU:HD13	2:C:277:PHE:HD2	1.82	0.43
2:D:273:TYR:C	2:D:274:GLN:HE21	2.21	0.43
2:D:312:GLN:HB3	2:D:313:PRO:HA	1.99	0.43
2:E:89:VAL:C	2:E:91:PHE:H	2.22	0.43
2:G:225:LEU:HD13	2:G:277:PHE:CD2	2.53	0.43
2:H:41:MET:O	2:H:42:ASN:C	2.56	0.43
2:H:225:LEU:HD13	2:H:277:PHE:CD2	2.53	0.43
2:H:225:LEU:HD13	2:H:277:PHE:HD2	1.82	0.43
2:I:89:VAL:C	2:I:91:PHE:N	2.70	0.43
2:J:125:LYS:O	2:J:127:ILE:N	2.42	0.43
2:L:3:VAL:O	2:L:4:LEU:C	2.56	0.43
2:L:217:VAL:HG22	2:L:286:ASP:HB3	2.00	0.43
2:M:89:VAL:C	2:M:91:PHE:H	2.21	0.43
2:N:2:ASP:HB2	2:N:128:ASN:HD21	1.83	0.43
2:N:62:ASP:H	2:N:63:PHE:HD1	1.66	0.43
2:N:151:THR:C	2:N:152:PHE:CD1	2.91	0.43
2:N:155:PRO:O	2:N:186:SER:HB3	2.17	0.43
2:O:3:VAL:O	2:O:4:LEU:C	2.56	0.43
2:O:227:PRO:HD3	2:O:277:PHE:CG	2.53	0.43
3:W:527:SER:O	3:W:530:ASN:N	2.48	0.43
3:W:824:ASN:O	3:W:827:VAL:N	2.46	0.43
3:W:981:TYR:CZ	3:W:985:LYS:HD2	2.53	0.43
3:W:1006:LEU:HG	3:W:1086:PHE:CE1	2.49	0.43
1:A:141:GLU:O	1:A:142:LEU:CB	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:187:ALA:O	1:A:188:VAL:CG2	2.66	0.43
1:A:333:VAL:HB	1:A:380:LYS:HG2	2.00	0.43
1:A:416:ASN:C	1:A:418:MET:H	2.21	0.43
1:A:722:ASN:ND2	1:A:823:THR:O	2.51	0.43
1:A:810:TYR:C	1:A:812:VAL:N	2.71	0.43
1:A:854:LEU:O	1:A:855:LEU:C	2.56	0.43
1:B:138:GLY:O	1:B:804:SER:HB3	2.18	0.43
1:B:190:ASN:O	1:B:192:ASN:O	2.35	0.43
1:B:341:SER:O	1:B:342:THR:C	2.57	0.43
1:B:374:ALA:CB	1:B:580:SER:HB3	2.44	0.43
1:B:491:GLN:CG	1:B:564:ASN:HB3	2.48	0.43
1:B:498:ARG:CD	2:I:32:GLN:NE2	2.82	0.43
1:B:503:ILE:HG12	1:B:547:THR:HB	2.00	0.43
1:B:635:GLN:C	1:B:636:LYS:O	2.50	0.43
2:C:153:HIS:NE2	2:D:153:HIS:NE2	2.66	0.43
2:C:227:PRO:HD3	2:C:277:PHE:CG	2.53	0.43
2:C:239:ASN:ND2	2:C:246:THR:HG22	2.29	0.43
2:C:312:GLN:HB3	2:C:313:PRO:HA	1.99	0.43
2:D:99:GLU:CD	2:D:116:LEU:CD2	2.86	0.43
2:E:1:MET:O	2:E:2:ASP:C	2.56	0.43
2:G:61:PHE:N	2:G:61:PHE:CD1	2.86	0.43
2:I:36:GLN:CB	2:J:23:LEU:HD11	2.48	0.43
2:K:217:VAL:HG22	2:K:286:ASP:HB3	2.00	0.43
2:L:14:ALA:O	2:L:18:ILE:HD12	2.18	0.43
2:L:35:ASN:O	2:L:37:MET:N	2.51	0.43
2:M:22:THR:OG1	2:M:26:ASN:ND2	2.45	0.43
2:M:169:SER:HA	2:M:176:LEU:HD23	2.00	0.43
2:O:249:PHE:CE2	2:O:251:PRO:HG3	2.53	0.43
3:W:377:GLU:N	3:W:378:PRO:CD	2.81	0.43
3:W:595:GLN:O	3:W:599:ALA:HB3	2.18	0.43
3:W:786:ARG:HD3	3:W:869:SER:HB2	1.99	0.43
3:W:825:ASN:O	3:W:829:ARG:HG2	2.18	0.43
3:W:951:ILE:HG13	3:W:985:LYS:HG2	1.99	0.43
1:A:143:ARG:HG3	1:A:144:ASN:N	2.34	0.43
1:A:181:LEU:N	1:A:260:GLN:HE21	2.16	0.43
1:A:215:GLU:CD	1:A:215:GLU:H	2.21	0.43
1:A:396:PHE:HD2	1:A:578:LEU:HD11	1.84	0.43
1:A:501:HIS:CA	1:A:503:ILE:HG13	2.48	0.43
1:A:591:ALA:O	1:A:877:MET:SD	2.76	0.43
1:A:751:LEU:HD21	1:A:783:PHE:O	2.18	0.43
1:A:769:SER:CB	1:A:807:ASN:OD1	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:772:ILE:O	1:A:774:LEU:N	2.51	0.43
1:B:309:ASN:HA	1:B:311:HIS:CE1	2.54	0.43
1:B:791:LYS:HB3	1:B:792:VAL:H	1.59	0.43
2:D:63:PHE:N	2:D:63:PHE:CD1	2.86	0.43
2:E:78:VAL:O	2:E:81:ALA:N	2.41	0.43
2:F:217:VAL:HG22	2:F:286:ASP:HB3	1.99	0.43
2:G:53:ASN:ND2	2:G:354:ALA:HB3	2.33	0.43
2:G:225:LEU:HD13	2:G:277:PHE:HD2	1.82	0.43
2:H:227:PRO:HD3	2:H:277:PHE:CG	2.53	0.43
2:I:169:SER:HA	2:I:176:LEU:HD23	2.00	0.43
2:J:3:VAL:O	2:J:4:LEU:C	2.56	0.43
2:K:3:VAL:O	2:K:4:LEU:C	2.56	0.43
2:K:5:TYR:HE2	2:K:131:ASN:HA	1.79	0.43
2:M:128:ASN:HB3	2:N:19:VAL:CG2	2.48	0.43
2:N:136:ILE:HG23	2:N:137:GLU:N	2.33	0.43
2:N:227:PRO:HD3	2:N:277:PHE:CG	2.53	0.43
3:W:81:LYS:O	3:W:82:TYR:HB2	2.19	0.43
3:W:165:ARG:HG3	3:W:165:ARG:HH11	1.84	0.43
3:W:586:TYR:HE2	3:W:588:ALA:HB3	1.81	0.43
3:W:854:ILE:O	3:W:858:LEU:HG	2.17	0.43
3:W:954:HIS:HB2	3:W:957:GLU:HG3	1.99	0.43
1:A:383:ILE:O	1:A:386:MET:N	2.52	0.43
1:A:750:MET:CE	1:A:757:VAL:HG21	2.48	0.43
1:A:781:THR:HG22	1:A:782:VAL:N	2.34	0.43
1:B:312:ASP:O	1:B:312:ASP:CG	2.56	0.43
1:B:510:LEU:HD22	1:B:540:LEU:CD1	2.30	0.43
1:B:510:LEU:HA	1:B:513:LEU:HD12	1.99	0.43
1:B:542:GLN:O	1:B:543:LEU:C	2.57	0.43
1:B:595:PRO:HB2	1:B:600:LEU:HD11	2.00	0.43
2:C:1:MET:O	2:C:2:ASP:C	2.56	0.43
2:E:142:GLN:HE21	2:E:143:ASN:N	2.16	0.43
2:E:227:PRO:HD3	2:E:277:PHE:CG	2.53	0.43
2:F:227:PRO:HD3	2:F:277:PHE:CG	2.53	0.43
2:G:6:SER:C	2:G:8:SER:N	2.72	0.43
2:G:249:PHE:CE2	2:G:251:PRO:HG3	2.53	0.43
2:H:169:SER:HA	2:H:176:LEU:HD23	2.00	0.43
2:I:146:GLN:O	2:I:148:THR:HG23	2.19	0.43
2:I:227:PRO:HD3	2:I:277:PHE:CG	2.53	0.43
2:I:312:GLN:HB3	2:I:313:PRO:HA	1.99	0.43
2:K:225:LEU:HD13	2:K:277:PHE:CD2	2.53	0.43
2:L:42:ASN:CA	2:L:61:PHE:HB2	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:89:VAL:C	2:L:91:PHE:N	2.71	0.43
2:M:24:TYR:N	2:M:71:LEU:O	2.49	0.43
2:N:101:VAL:HG11	2:N:355:ILE:HG13	2.01	0.43
2:N:153:HIS:O	2:N:154:LYS:C	2.57	0.43
2:N:225:LEU:HD13	2:N:277:PHE:CD2	2.53	0.43
3:W:650:ASP:O	3:W:654:ASP:OD1	2.36	0.43
1:A:243:SER:O	1:A:839:MET:HG2	2.19	0.43
1:A:408:MET:HG2	1:A:471:TRP:CH2	2.53	0.43
1:A:415:PRO:O	1:A:417:ASP:N	2.43	0.43
1:A:546:LEU:HD23	1:A:546:LEU:HA	1.86	0.43
1:A:548:ARG:HH11	1:A:877:MET:H	1.67	0.43
1:A:583:SER:O	1:A:584:LEU:C	2.56	0.43
1:A:714:ARG:HG2	1:A:720:TYR:CD2	2.54	0.43
1:A:717:MET:HE3	1:A:829:VAL:HG13	2.01	0.43
1:A:799:LEU:HA	1:A:799:LEU:HD23	1.68	0.43
1:B:309:ASN:HA	1:B:311:HIS:NE2	2.33	0.43
1:B:451:ASP:H	1:B:452:PRO:CD	2.20	0.43
1:B:540:LEU:HD23	1:B:541:GLY:CA	2.48	0.43
1:B:703:VAL:CG1	1:B:704:ILE:N	2.81	0.43
1:B:706:ALA:C	1:B:708:ARG:N	2.72	0.43
1:B:772:ILE:O	1:B:775:ILE:N	2.51	0.43
2:C:78:VAL:O	2:C:81:ALA:HB3	2.17	0.43
2:E:24:TYR:HE1	2:E:31:ILE:HG13	1.83	0.43
2:E:60:ASN:C	2:E:61:PHE:CD1	2.91	0.43
2:E:125:LYS:O	2:E:127:ILE:N	2.51	0.43
2:E:136:ILE:HG23	2:E:137:GLU:N	2.34	0.43
2:F:3:VAL:O	2:F:4:LEU:C	2.56	0.43
2:F:225:LEU:HD13	2:F:277:PHE:CD2	2.53	0.43
2:G:38:ILE:H	2:G:38:ILE:HG13	1.59	0.43
2:G:217:VAL:HG22	2:G:286:ASP:HB3	1.99	0.43
2:H:1:MET:O	2:H:2:ASP:C	2.57	0.43
2:I:34:PHE:O	2:I:37:MET:HB3	2.18	0.43
2:J:169:SER:HA	2:J:176:LEU:HD23	2.00	0.43
2:K:89:VAL:C	2:K:91:PHE:H	2.21	0.43
2:L:169:SER:HA	2:L:176:LEU:HD23	2.00	0.43
2:L:249:PHE:CE2	2:L:251:PRO:HG3	2.53	0.43
2:M:63:PHE:HD2	2:M:84:THR:HG23	1.81	0.43
2:M:123:LYS:HG3	2:M:124:PHE:CD1	2.53	0.43
2:M:155:PRO:HA	2:M:337:ASP:CB	2.49	0.43
2:N:24:TYR:HE1	2:N:31:ILE:HG13	1.83	0.43
2:N:63:PHE:CD2	2:N:84:THR:HG23	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:145:ARG:HA	2:N:145:ARG:HE	1.83	0.43
2:N:312:GLN:HB3	2:N:313:PRO:HA	1.99	0.43
3:W:296:ARG:HH22	3:W:308:GLN:NE2	2.05	0.43
3:W:427:ASP:OD1	3:W:432:ARG:NH2	2.52	0.43
3:W:686:LYS:HD3	3:W:901:PRO:HG2	2.01	0.43
1:A:298:TYR:C	1:A:298:TYR:CD1	2.91	0.43
1:A:353:LEU:C	1:A:354:GLN:HG2	2.37	0.43
1:A:501:HIS:HA	1:A:503:ILE:HG13	2.01	0.43
1:A:521:MET:CB	1:A:522:PRO:HD3	2.26	0.43
1:A:563:MET:O	1:A:564:ASN:C	2.56	0.43
1:A:675:GLU:HB3	1:A:678:ARG:HG2	2.01	0.43
1:B:224:PHE:CD1	2:O:71:LEU:HD13	2.54	0.43
1:B:231:ARG:HD2	1:B:231:ARG:HA	1.77	0.43
1:B:383:ILE:O	1:B:386:MET:N	2.51	0.43
1:B:772:ILE:CG2	1:B:773:SER:H	2.29	0.43
2:E:152:PHE:O	2:E:328:SER:HA	2.19	0.43
2:F:163:SER:HB3	2:F:181:TRP:CZ2	2.54	0.43
2:G:89:VAL:C	2:G:91:PHE:H	2.22	0.43
2:G:151:THR:C	2:G:152:PHE:CD1	2.92	0.43
2:O:62:ASP:H	2:O:63:PHE:HD1	1.66	0.43
3:W:133:ALA:HB1	3:W:701:ARG:HG3	1.99	0.43
3:W:386:LEU:HB3	3:W:554:VAL:HG22	2.00	0.43
3:W:1077:ARG:O	3:W:1078:SER:C	2.57	0.43
1:A:387:LEU:HD23	1:A:554:TYR:CE1	2.54	0.43
1:A:428:GLN:O	1:A:432:VAL:HG23	2.19	0.43
1:A:693:GLU:O	1:A:695:ALA:O	2.37	0.43
1:B:434:THR:C	1:B:435:ILE:HG13	2.37	0.43
1:B:508:GLU:OE1	2:J:71:LEU:HB3	2.18	0.43
1:B:620:ASP:O	1:B:624:ILE:HG13	2.19	0.43
1:B:666:ARG:HG2	1:B:667:ASP:N	2.32	0.43
1:B:743:ASP:CG	1:B:744:TYR:N	2.72	0.43
1:B:770:SER:O	1:B:771:VAL:C	2.57	0.43
2:C:78:VAL:O	2:C:81:ALA:N	2.40	0.43
2:D:11:LEU:O	2:D:15:ARG:N	2.40	0.43
2:D:89:VAL:C	2:D:91:PHE:H	2.22	0.43
2:E:169:SER:HA	2:E:176:LEU:HD23	2.00	0.43
2:G:145:ARG:HE	2:I:142:GLN:NE2	2.17	0.43
2:H:35:ASN:O	2:H:37:MET:N	2.52	0.43
2:H:273:TYR:C	2:H:274:GLN:HE21	2.21	0.43
2:J:14:ALA:O	2:J:16:ASP:N	2.50	0.43
2:J:136:ILE:HG23	2:J:137:GLU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:78:VAL:O	2:L:81:ALA:HB3	2.18	0.43
2:N:154:LYS:N	2:N:155:PRO:CD	2.82	0.43
3:W:447:ILE:CG2	3:W:464:ILE:H	2.31	0.43
1:A:370:ILE:O	1:A:374:ALA:HB2	2.19	0.43
1:A:393:SER:C	1:A:394:LEU:HG	2.38	0.43
1:A:571:LEU:HD22	1:A:571:LEU:HA	1.74	0.43
1:A:709:ASP:O	1:A:710:MET:HB3	2.18	0.43
1:A:785:GLN:O	1:A:786:ILE:C	2.57	0.43
1:B:433:ASN:C	1:B:435:ILE:H	2.22	0.43
1:B:658:PRO:HB2	1:B:661:GLN:CG	2.39	0.43
1:B:776:ALA:O	1:B:778:LEU:N	2.52	0.43
1:B:871:PHE:CD1	1:B:872:ASP:N	2.87	0.43
2:C:53:ASN:HD22	2:C:354:ALA:HB3	1.83	0.43
2:I:4:LEU:O	2:I:5:TYR:C	2.57	0.43
2:I:11:LEU:O	2:I:15:ARG:N	2.38	0.43
2:J:190:VAL:HG21	2:J:210:HIS:HB2	1.99	0.43
2:M:74:ASP:O	2:M:75:ALA:C	2.57	0.43
2:N:3:VAL:O	2:N:4:LEU:C	2.56	0.43
2:N:125:LYS:C	2:N:127:ILE:H	2.22	0.43
2:N:249:PHE:CE2	2:N:251:PRO:HG3	2.53	0.43
3:W:169:LEU:HG	3:W:223:TYR:CE1	2.54	0.43
3:W:173:VAL:O	3:W:177:ILE:HG12	2.19	0.43
3:W:500:LEU:HD12	3:W:917:ARG:O	2.18	0.43
3:W:811:TYR:CZ	3:W:815:LEU:HD11	2.54	0.43
3:W:951:ILE:CG1	3:W:985:LYS:HA	2.47	0.43
1:A:393:SER:HB2	1:A:573:THR:CG2	2.48	0.43
1:A:396:PHE:HB3	1:A:578:LEU:HG	2.00	0.43
1:A:420:ILE:HD12	1:A:422:GLU:CG	2.49	0.43
1:A:481:ARG:HH12	1:A:497:ILE:CD1	2.32	0.43
1:A:510:LEU:HD13	1:A:540:LEU:HB2	2.01	0.43
1:A:815:TYR:H	1:A:815:TYR:HD1	1.62	0.43
1:B:218:GLU:OE1	1:B:836:ARG:NH2	2.51	0.43
1:B:409:TRP:CZ3	1:B:413:VAL:HG23	2.54	0.43
1:B:625:ILE:H	1:B:625:ILE:HG13	1.60	0.43
1:B:870:ALA:O	1:B:872:ASP:N	2.52	0.43
2:C:14:ALA:O	2:C:16:ASP:N	2.52	0.43
2:C:35:ASN:O	2:C:37:MET:N	2.52	0.43
2:C:89:VAL:C	2:C:91:PHE:N	2.72	0.43
2:D:89:VAL:C	2:D:91:PHE:N	2.72	0.43
2:E:70:LEU:HB3	2:E:72:ASN:O	2.19	0.43
2:G:3:VAL:O	2:G:4:LEU:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:89:VAL:C	2:H:91:PHE:N	2.73	0.43
2:H:135:TYR:CE1	2:H:342:MET:HE3	2.54	0.43
2:I:16:ASP:HB3	2:K:131:ASN:O	2.18	0.43
2:I:27:VAL:O	2:I:30:LEU:HB3	2.19	0.43
2:J:66:LEU:HA	2:J:66:LEU:HD23	1.81	0.43
2:K:163:SER:HB3	2:K:181:TRP:CZ2	2.54	0.43
2:M:1:MET:C	2:M:3:VAL:N	2.71	0.43
2:N:50:GLY:O	2:N:51:ILE:CG2	2.61	0.43
2:O:89:VAL:C	2:O:91:PHE:N	2.71	0.43
3:W:138:LEU:HA	3:W:141:ASN:HD22	1.84	0.43
3:W:181:GLY:O	3:W:183:PRO:HD3	2.19	0.43
3:W:754:GLU:O	3:W:758:THR:OG1	2.35	0.43
1:A:319:ASP:OD2	1:A:572:THR:N	2.52	0.43
1:A:339:LEU:HD13	1:A:588:ILE:HG12	2.00	0.43
1:A:396:PHE:HB3	1:A:578:LEU:CG	2.47	0.43
1:A:496:ASN:O	1:A:498:ARG:N	2.51	0.43
1:A:598:GLN:H	1:A:598:GLN:HG3	1.61	0.43
1:A:656:ARG:HB3	1:B:347:GLN:NE2	2.34	0.43
1:B:89:GLU:O	1:B:91:LEU:N	2.52	0.43
1:B:126:PHE:CB	1:B:149:LYS:O	2.67	0.43
1:B:134:TYR:CD1	1:B:134:TYR:N	2.86	0.43
1:B:477:ASN:ND2	2:I:39:ILE:CG2	2.81	0.43
1:B:810:TYR:C	1:B:812:VAL:HG12	2.38	0.43
2:D:225:LEU:HD13	2:D:277:PHE:CD2	2.53	0.43
2:E:49:GLY:HA2	2:E:54:LEU:HD23	2.01	0.43
2:F:89:VAL:C	2:F:91:PHE:H	2.22	0.43
2:I:149:GLY:C	2:I:150:PHE:CD1	2.92	0.43
2:J:34:PHE:O	2:J:37:MET:HB3	2.18	0.43
2:J:35:ASN:O	2:J:37:MET:N	2.52	0.43
2:K:27:VAL:O	2:K:30:LEU:N	2.52	0.43
2:M:34:PHE:O	2:M:37:MET:HB3	2.19	0.43
2:M:56:ILE:O	2:M:56:ILE:HG22	2.19	0.43
2:O:163:SER:HB3	2:O:181:TRP:CZ2	2.54	0.43
3:W:428:MET:SD	3:W:811:TYR:CD1	3.11	0.43
3:W:496:GLN:O	3:W:920:GLN:HG2	2.18	0.43
3:W:500:LEU:HD22	3:W:899:PHE:HE1	1.83	0.43
3:W:729:ARG:HD2	3:W:770:ASP:OD2	2.19	0.43
1:A:355:LEU:HD23	1:A:355:LEU:HA	1.79	0.42
1:B:99:GLU:HB3	1:B:100:PRO:CD	2.35	0.42
1:B:249:ASP:O	1:B:250:TYR:C	2.58	0.42
1:B:251:ALA:HA	2:N:69:THR:CG2	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:305:GLN:HG3	1:B:489:LEU:CD2	2.49	0.42
1:B:548:ARG:CD	1:B:877:MET:H	2.31	0.42
1:B:698:LYS:C	1:B:699:ILE:CD1	2.87	0.42
1:B:795:LEU:O	1:B:797:PRO:HD3	2.18	0.42
2:C:34:PHE:O	2:C:37:MET:HB3	2.19	0.42
2:C:38:ILE:H	2:C:38:ILE:HG13	1.58	0.42
2:D:150:PHE:HB2	2:D:152:PHE:CZ	2.53	0.42
2:D:227:PRO:HD3	2:D:277:PHE:CG	2.53	0.42
2:E:154:LYS:HG2	2:E:186:SER:OG	2.19	0.42
2:F:89:VAL:C	2:F:91:PHE:N	2.72	0.42
2:F:148:THR:HB	2:F:149:GLY:H	1.64	0.42
2:H:89:VAL:C	2:H:91:PHE:H	2.22	0.42
2:I:163:SER:HB3	2:I:181:TRP:CZ2	2.54	0.42
2:I:249:PHE:CE2	2:I:251:PRO:HG3	2.53	0.42
2:J:227:PRO:HD3	2:J:277:PHE:CG	2.53	0.42
2:J:249:PHE:CE2	2:J:251:PRO:HG3	2.53	0.42
2:K:125:LYS:C	2:K:127:ILE:H	2.22	0.42
2:L:38:ILE:H	2:L:38:ILE:HG13	1.55	0.42
2:N:27:VAL:O	2:N:28:SER:C	2.58	0.42
2:N:35:ASN:O	2:N:37:MET:N	2.52	0.42
2:O:23:LEU:CD2	2:O:24:TYR:N	2.82	0.42
3:W:109:TYR:OH	3:W:337:GLN:HB2	2.19	0.42
3:W:324:LYS:HG2	3:W:328:TRP:NE1	2.33	0.42
3:W:426:ASP:HB3	3:W:432:ARG:HH21	1.84	0.42
3:W:521:VAL:HG11	3:W:607:LEU:CD2	2.49	0.42
3:W:745:THR:OG1	3:W:748:LEU:HB3	2.19	0.42
3:W:863:LYS:HA	3:W:864:PRO:HD3	1.70	0.42
3:W:900:MET:N	3:W:901:PRO:HD3	2.34	0.42
1:A:124:ARG:C	1:A:125:ILE:HD12	2.37	0.42
1:A:273:TYR:O	1:A:273:TYR:HD2	2.01	0.42
1:A:587:LEU:C	1:A:587:LEU:HD22	2.39	0.42
1:A:613:ASN:O	1:A:617:ARG:HG2	2.19	0.42
1:A:633:LEU:C	1:A:635:GLN:N	2.72	0.42
1:B:308:LEU:HB3	1:B:310:LEU:CD2	2.49	0.42
1:B:346:ILE:HA	1:B:349:MET:HB2	2.01	0.42
1:B:393:SER:H	1:B:573:THR:CG2	2.31	0.42
1:B:413:VAL:O	1:B:414:VAL:C	2.58	0.42
1:B:491:GLN:NE2	1:B:566:GLN:CG	2.79	0.42
1:B:498:ARG:CD	2:I:32:GLN:HE21	2.32	0.42
1:B:701:GLN:CD	1:B:701:GLN:N	2.72	0.42
2:C:4:LEU:O	2:C:5:TYR:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:163:SER:HB3	2:C:181:TRP:CZ2	2.54	0.42
2:C:169:SER:HA	2:C:176:LEU:HD23	2.00	0.42
2:C:225:LEU:HD13	2:C:277:PHE:CD2	2.53	0.42
2:D:3:VAL:O	2:D:4:LEU:C	2.57	0.42
2:D:14:ALA:O	2:D:16:ASP:N	2.52	0.42
2:E:6:SER:C	2:E:8:SER:N	2.73	0.42
2:E:150:PHE:HB2	2:E:152:PHE:HE1	1.81	0.42
2:G:227:PRO:HD3	2:G:277:PHE:CG	2.54	0.42
2:I:14:ALA:C	2:I:18:ILE:HD12	2.39	0.42
2:I:51:ILE:O	2:I:54:LEU:HB3	2.19	0.42
2:I:61:PHE:O	2:I:62:ASP:HB3	2.19	0.42
2:J:54:LEU:HD12	2:J:55:PRO:HD2	2.00	0.42
2:K:169:SER:HA	2:K:176:LEU:HD23	2.00	0.42
2:K:249:PHE:CE2	2:K:251:PRO:HG3	2.53	0.42
2:L:227:PRO:HD3	2:L:277:PHE:CG	2.53	0.42
2:M:89:VAL:C	2:M:91:PHE:N	2.72	0.42
2:M:227:PRO:HD3	2:M:277:PHE:CG	2.53	0.42
2:O:113:SER:O	2:O:117:ARG:HG3	2.18	0.42
3:W:441:VAL:HB	3:W:447:ILE:CD1	2.33	0.42
1:A:265:LEU:HB3	1:A:296:ALA:HB1	2.00	0.42
1:A:370:ILE:O	1:A:374:ALA:CB	2.68	0.42
1:A:391:THR:O	1:A:573:THR:HA	2.19	0.42
1:A:510:LEU:HA	1:A:513:LEU:HD12	2.01	0.42
1:A:548:ARG:NH1	1:A:877:MET:CA	2.78	0.42
1:A:775:ILE:C	1:A:777:LYS:N	2.71	0.42
1:A:864:GLU:CD	1:A:865:PRO:HD2	2.40	0.42
1:B:380:LYS:O	1:B:381:THR:C	2.58	0.42
1:B:636:LYS:O	1:B:637:LYS:CB	2.66	0.42
2:C:26:ASN:N	2:C:26:ASN:OD1	2.52	0.42
2:C:111:PRO:HB3	2:C:116:LEU:HD23	2.01	0.42
2:D:27:VAL:CG2	2:D:31:ILE:HD11	2.49	0.42
2:D:35:ASN:O	2:D:37:MET:N	2.53	0.42
2:E:63:PHE:CD1	2:E:63:PHE:N	2.87	0.42
2:F:69:THR:O	2:F:70:LEU:C	2.56	0.42
2:H:38:ILE:H	2:H:38:ILE:HG13	1.57	0.42
2:I:17:LYS:HG2	2:K:130:ASP:HA	2.01	0.42
2:I:36:GLN:NE2	2:I:126:ARG:HD3	2.34	0.42
2:L:106:ARG:H	2:L:106:ARG:CD	2.20	0.42
2:L:140:ASN:O	2:L:143:ASN:N	2.50	0.42
2:N:116:LEU:O	2:N:119:LEU:N	2.48	0.42
2:N:273:TYR:C	2:N:274:GLN:HE21	2.21	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:409:LYS:HA	3:W:413:LYS:O	2.19	0.42
3:W:1034:HIS:O	3:W:1037:ALA:HB3	2.20	0.42
1:A:321:ILE:O	1:A:322:THR:C	2.58	0.42
1:A:383:ILE:HD11	1:A:550:LEU:CD2	2.49	0.42
1:A:548:ARG:HH11	1:A:877:MET:N	2.17	0.42
1:A:660:ASP:CA	1:B:539:ARG:NH1	2.83	0.42
1:A:666:ARG:HA	1:A:669:LEU:HD12	2.00	0.42
1:A:714:ARG:CG	1:A:720:TYR:HD2	2.32	0.42
1:B:192:ASN:O	1:B:193:SER:HB3	2.19	0.42
1:B:239:VAL:CG2	1:B:844:SER:O	2.61	0.42
1:B:300:ARG:HA	1:B:301:PRO:HD3	1.76	0.42
1:B:443:GLN:C	1:B:445:MET:H	2.21	0.42
1:B:482:GLN:CA	1:B:493:LEU:HD22	2.49	0.42
1:B:557:LEU:O	1:B:558:MET:C	2.58	0.42
1:B:789:LEU:O	1:B:790:ARG:O	2.37	0.42
1:B:853:ASP:O	1:B:854:LEU:CB	2.67	0.42
1:B:879:GLU:O	1:B:880:LEU:OXT	2.37	0.42
2:C:46:PHE:CE2	2:C:119:LEU:HD21	2.54	0.42
2:C:227:PRO:O	2:C:228:ASP:HB2	2.20	0.42
2:E:4:LEU:O	2:E:5:TYR:C	2.57	0.42
2:E:227:PRO:O	2:E:228:ASP:HB2	2.19	0.42
2:F:123:LYS:HG3	2:F:124:PHE:CD1	2.53	0.42
2:F:136:ILE:HG23	2:F:137:GLU:N	2.34	0.42
2:F:168:ARG:HD2	2:F:175:ASN:O	2.20	0.42
2:J:131:ASN:N	2:J:131:ASN:ND2	2.67	0.42
2:J:163:SER:HB3	2:J:181:TRP:CZ2	2.54	0.42
2:K:139:TRP:HE1	2:K:143:ASN:HD22	1.66	0.42
2:L:24:TYR:O	2:L:26:ASN:N	2.52	0.42
2:L:62:ASP:H	2:L:63:PHE:HD1	1.66	0.42
2:L:163:SER:HB3	2:L:181:TRP:CZ2	2.54	0.42
2:N:163:SER:HB3	2:N:181:TRP:CZ2	2.54	0.42
2:N:168:ARG:HD2	2:N:175:ASN:O	2.20	0.42
3:W:61:GLU:HG2	3:W:61:GLU:O	2.19	0.42
3:W:319:PHE:N	3:W:320:PRO:HD2	2.34	0.42
3:W:777:THR:HG23	3:W:882:LYS:HD2	2.00	0.42
3:W:880:ASP:OD2	3:W:1069:LYS:HE3	2.19	0.42
1:A:319:ASP:OD2	1:A:570:THR:HG22	2.19	0.42
1:A:400:ASN:O	1:A:403:SER:HB2	2.20	0.42
1:A:570:THR:CG2	1:A:571:LEU:N	2.74	0.42
1:B:113:PRO:CG	1:B:609:ASN:HB3	2.49	0.42
1:B:146:TRP:O	1:B:833:PHE:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:128:ASN:O	2:C:129:PHE:HB2	2.20	0.42
2:E:24:TYR:CE1	2:E:31:ILE:HG13	2.54	0.42
2:F:153:HIS:NE2	2:G:153:HIS:NE2	2.67	0.42
2:G:89:VAL:C	2:G:91:PHE:N	2.73	0.42
2:G:136:ILE:HG23	2:G:137:GLU:N	2.33	0.42
2:G:163:SER:HB3	2:G:181:TRP:CZ2	2.54	0.42
2:I:168:ARG:HD2	2:I:175:ASN:O	2.20	0.42
2:K:23:LEU:H	2:K:26:ASN:ND2	2.17	0.42
2:L:66:LEU:HB3	2:L:67:GLY:H	1.66	0.42
2:L:227:PRO:O	2:L:228:ASP:HB2	2.20	0.42
2:M:14:ALA:O	2:M:16:ASP:N	2.52	0.42
2:M:78:VAL:O	2:M:81:ALA:HB3	2.19	0.42
2:M:145:ARG:CB	2:M:145:ARG:HH11	2.32	0.42
2:N:21:GLY:O	2:N:22:THR:O	2.36	0.42
2:N:34:PHE:O	2:N:37:MET:HB3	2.20	0.42
2:O:227:PRO:O	2:O:228:ASP:HB2	2.20	0.42
3:W:64:ASP:OD2	3:W:65:VAL:HG23	2.20	0.42
3:W:108:ASP:HA	3:W:111:ASN:HD22	1.83	0.42
3:W:358:GLU:HG3	3:W:359:MET:N	2.33	0.42
1:A:200:VAL:CG2	1:A:241:TYR:HD2	2.32	0.42
1:A:259:HIS:O	1:A:260:GLN:C	2.56	0.42
1:A:271:PHE:HA	1:A:274:ILE:CD1	2.47	0.42
1:A:351:GLN:O	1:A:353:LEU:N	2.53	0.42
1:A:443:GLN:HE22	1:A:522:PRO:HG3	1.84	0.42
1:A:546:LEU:HD21	1:A:588:ILE:HD12	1.99	0.42
1:A:593:VAL:HG12	1:A:594:ILE:N	2.35	0.42
1:A:594:ILE:HG23	1:A:595:PRO:HD2	2.01	0.42
1:A:876:ILE:O	1:A:877:MET:CB	2.68	0.42
1:B:195:ASP:O	1:B:196:ALA:C	2.58	0.42
1:B:199:VAL:HG13	1:B:242:PRO:O	2.20	0.42
1:B:465:ASN:O	1:B:466:PHE:C	2.58	0.42
1:B:555:GLU:OE2	1:B:871:PHE:CE2	2.69	0.42
2:C:9:LYS:HE3	2:C:13:ASP:OD1	2.19	0.42
2:E:59:TRP:CD1	2:E:59:TRP:N	2.87	0.42
2:E:163:SER:HB3	2:E:181:TRP:CZ2	2.54	0.42
2:G:168:ARG:HD2	2:G:175:ASN:O	2.20	0.42
2:I:78:VAL:O	2:I:81:ALA:HB3	2.20	0.42
2:J:6:SER:C	2:J:8:SER:N	2.73	0.42
2:J:74:ASP:O	2:J:75:ALA:C	2.57	0.42
2:J:227:PRO:O	2:J:228:ASP:HB2	2.20	0.42
2:M:3:VAL:O	2:M:4:LEU:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:101:VAL:HG12	2:N:350:ARG:HG2	2.01	0.42
2:O:6:SER:C	2:O:8:SER:N	2.73	0.42
3:W:999:ILE:HD11	3:W:1009:PHE:HD1	1.81	0.42
1:A:125:ILE:HD12	1:A:125:ILE:H	1.77	0.42
1:A:211:ILE:C	1:A:213:GLN:H	2.23	0.42
1:A:409:TRP:CH2	1:A:547:THR:OG1	2.71	0.42
1:A:571:LEU:CD2	1:B:531:ARG:CZ	2.97	0.42
1:A:709:ASP:OD2	1:A:820:THR:HG21	2.20	0.42
1:A:775:ILE:HG13	1:A:775:ILE:H	1.35	0.42
1:A:839:MET:CG	1:A:840:HIS:N	2.83	0.42
1:A:853:ASP:O	1:A:854:LEU:HB2	2.18	0.42
1:B:243:SER:HB3	1:B:842:LEU:HD12	2.01	0.42
1:B:390:ARG:HG3	1:B:391:THR:N	2.34	0.42
1:B:409:TRP:CZ3	1:B:413:VAL:CG2	3.02	0.42
1:B:496:ASN:HD22	1:B:498:ARG:CB	2.32	0.42
2:E:168:ARG:HD2	2:E:175:ASN:O	2.20	0.42
2:F:227:PRO:O	2:F:228:ASP:HB2	2.20	0.42
2:G:9:LYS:HE3	2:G:13:ASP:OD1	2.19	0.42
2:H:136:ILE:HG23	2:H:137:GLU:N	2.34	0.42
2:K:78:VAL:O	2:K:81:ALA:HB3	2.19	0.42
2:L:168:ARG:HD2	2:L:175:ASN:O	2.20	0.42
2:N:227:PRO:O	2:N:228:ASP:HB2	2.19	0.42
3:W:3:LYS:O	3:W:7:ILE:HG13	2.18	0.42
3:W:72:LEU:HG	3:W:861:LEU:HG	2.00	0.42
3:W:114:MET:HB2	3:W:117:GLU:CG	2.50	0.42
3:W:840:ASN:HA	3:W:845:ILE:HG22	1.99	0.42
1:A:440:PHE:O	1:A:441:GLY:C	2.58	0.42
1:A:517:GLN:O	1:A:517:GLN:HG3	2.20	0.42
1:A:707:TYR:N	1:A:707:TYR:CD1	2.88	0.42
1:A:850:VAL:C	1:A:851:TYR:CD1	2.93	0.42
1:B:482:GLN:O	1:B:483:VAL:CG2	2.68	0.42
1:B:546:LEU:HD23	1:B:546:LEU:HA	1.81	0.42
2:C:155:PRO:HA	2:C:337:ASP:HB2	2.02	0.42
2:E:9:LYS:HE3	2:E:13:ASP:OD1	2.20	0.42
2:F:145:ARG:C	2:F:146:GLN:HG2	2.40	0.42
2:G:253:ILE:HG13	2:H:234:PHE:CE1	2.55	0.42
2:L:42:ASN:HB3	2:L:62:ASP:N	2.35	0.42
2:L:61:PHE:CD1	2:L:61:PHE:N	2.88	0.42
2:L:125:LYS:C	2:L:127:ILE:H	2.22	0.42
2:M:163:SER:HB3	2:M:181:TRP:CZ2	2.55	0.42
2:M:355:ILE:HA	2:M:356:PRO:HD3	1.96	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:23:LEU:HG	2:O:24:TYR:H	1.85	0.42
2:O:124:PHE:O	2:O:127:ILE:HG13	2.19	0.42
3:W:200:PRO:O	3:W:201:TYR:C	2.58	0.42
3:W:824:ASN:ND2	3:W:964:SER:HB2	2.35	0.42
1:A:141:GLU:O	1:A:142:LEU:HD12	2.20	0.42
1:A:216:GLU:N	1:A:216:GLU:OE1	2.50	0.42
1:A:487:GLY:O	1:A:488:VAL:CB	2.68	0.42
1:B:183:LEU:O	1:B:184:LYS:C	2.57	0.42
1:B:253:ASN:O	1:B:256:PHE:HB2	2.20	0.42
1:B:310:LEU:H	1:B:310:LEU:HG	1.44	0.42
1:B:454:THR:CG2	1:B:476:ASN:ND2	2.61	0.42
1:B:570:THR:HG22	1:B:571:LEU:N	2.34	0.42
1:B:646:LEU:HG	1:B:646:LEU:H	1.51	0.42
1:B:856:ALA:C	1:B:858:VAL:N	2.72	0.42
2:D:163:SER:HB3	2:D:181:TRP:CZ2	2.54	0.42
2:E:3:VAL:O	2:E:4:LEU:C	2.57	0.42
2:E:61:PHE:CD1	2:E:61:PHE:N	2.87	0.42
2:E:129:PHE:CE1	2:E:130:ASP:HB3	2.54	0.42
2:I:104:SER:HB3	2:I:108:GLY:HA2	2.02	0.42
2:I:397:LYS:NZ	2:K:150:PHE:HA	2.34	0.42
2:J:73:LEU:HD22	2:J:77:TYR:CD2	2.54	0.42
2:J:253:ILE:HG13	2:K:234:PHE:CE1	2.55	0.42
2:K:9:LYS:HE3	2:K:13:ASP:OD1	2.20	0.42
2:K:227:PRO:O	2:K:228:ASP:HB2	2.20	0.42
2:M:7:LEU:H	2:M:7:LEU:HG	1.53	0.42
2:M:14:ALA:C	2:M:18:ILE:HD12	2.40	0.42
2:N:4:LEU:O	2:N:5:TYR:C	2.58	0.42
2:N:14:ALA:O	2:N:16:ASP:N	2.53	0.42
2:O:153:HIS:C	2:O:155:PRO:N	2.71	0.42
3:W:214:LEU:C	3:W:214:LEU:HD12	2.40	0.42
3:W:516:VAL:HG21	3:W:675:ILE:HG21	2.01	0.42
3:W:827:VAL:O	3:W:831:ILE:HG13	2.20	0.42
3:W:922:GLU:HG3	3:W:991:SER:OG	2.20	0.42
1:A:134:TYR:CE1	1:A:803:ASN:CG	2.93	0.42
1:A:201:ASP:O	1:A:204:THR:N	2.52	0.42
1:A:492:VAL:CG1	1:A:493:LEU:N	2.82	0.42
1:A:695:ALA:O	1:A:696:SER:HB3	2.20	0.42
1:A:810:TYR:O	1:A:813:ALA:N	2.53	0.42
1:B:148:TRP:NE1	1:B:833:PHE:HD1	2.18	0.42
1:B:287:ASN:HD22	1:B:287:ASN:HA	1.60	0.42
1:B:544:VAL:HG12	1:B:548:ARG:HE	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:746:GLN:HE22	2:D:64:GLY:HA2	1.85	0.42
2:C:168:ARG:HD2	2:C:175:ASN:O	2.20	0.42
2:D:51:ILE:O	2:D:52:GLY:C	2.58	0.42
2:E:14:ALA:O	2:E:16:ASP:N	2.52	0.42
2:G:23:LEU:HD23	2:G:25:SER:H	1.85	0.42
2:H:3:VAL:O	2:H:4:LEU:C	2.58	0.42
2:H:152:PHE:O	2:H:328:SER:HA	2.19	0.42
2:H:163:SER:HB3	2:H:181:TRP:CZ2	2.54	0.42
2:I:35:ASN:O	2:I:37:MET:N	2.52	0.42
2:I:74:ASP:O	2:I:75:ALA:C	2.57	0.42
2:K:4:LEU:O	2:K:5:TYR:C	2.58	0.42
2:K:35:ASN:O	2:K:37:MET:N	2.53	0.42
2:K:51:ILE:HG23	2:K:51:ILE:O	2.20	0.42
2:K:61:PHE:CD1	2:K:61:PHE:N	2.88	0.42
2:M:227:PRO:O	2:M:228:ASP:HB2	2.20	0.42
2:N:59:TRP:CD1	2:N:59:TRP:N	2.88	0.42
2:O:1:MET:HG3	2:O:2:ASP:N	2.34	0.42
2:O:239:ASN:ND2	2:O:246:THR:HG22	2.29	0.42
3:W:169:LEU:HG	3:W:223:TYR:HE1	1.85	0.42
3:W:516:VAL:N	3:W:671:SER:O	2.52	0.42
1:A:129:ARG:HG2	1:A:130:GLN:H	1.84	0.41
1:A:162:VAL:O	1:A:165:TYR:HB3	2.20	0.41
1:A:174:LEU:HA	1:A:177:MET:HB2	2.01	0.41
1:A:842:LEU:HD23	1:A:842:LEU:HA	1.76	0.41
1:A:853:ASP:OD1	1:A:854:LEU:N	2.53	0.41
1:B:224:PHE:CE1	2:O:71:LEU:N	2.87	0.41
1:B:501:HIS:O	1:B:503:ILE:N	2.53	0.41
1:B:526:LYS:O	1:B:530:GLN:HG2	2.20	0.41
2:C:235:PRO:HA	2:C:249:PHE:O	2.20	0.41
2:E:89:VAL:C	2:E:91:PHE:N	2.73	0.41
2:E:106:ARG:HB3	2:E:107:ASN:H	1.54	0.41
2:E:239:ASN:ND2	2:E:246:THR:HG22	2.30	0.41
2:H:227:PRO:O	2:H:228:ASP:HB2	2.20	0.41
2:I:27:VAL:O	2:I:31:ILE:HG12	2.19	0.41
2:L:124:PHE:O	2:L:126:ARG:N	2.53	0.41
2:L:235:PRO:HA	2:L:249:PHE:O	2.20	0.41
2:N:76:ASN:HA	2:O:75:ALA:HB3	2.01	0.41
2:N:89:VAL:C	2:N:91:PHE:N	2.71	0.41
2:O:125:LYS:O	2:O:127:ILE:N	2.51	0.41
3:W:441:VAL:HG11	3:W:465:LEU:HD22	2.02	0.41
3:W:542:LEU:HD11	3:W:561:TYR:HD2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:962:LEU:HD22	3:W:967:ILE:HG12	2.02	0.41
1:A:124:ARG:HD2	1:A:203:GLU:OE1	2.20	0.41
1:A:275:PRO:C	1:A:277:ARG:H	2.23	0.41
1:A:275:PRO:CG	1:A:278:ILE:HD11	2.50	0.41
1:A:314:PHE:HZ	1:A:664:ARG:HG2	1.84	0.41
1:A:404:LEU:HD22	1:A:435:ILE:HD11	2.02	0.41
1:A:493:LEU:HD11	1:A:566:GLN:O	2.20	0.41
1:A:656:ARG:O	1:A:657:VAL:HG23	2.20	0.41
1:A:848:PHE:C	1:A:849:THR:OG1	2.58	0.41
1:B:371:ASN:O	1:B:372:SER:C	2.58	0.41
1:B:383:ILE:O	1:B:384:ALA:C	2.57	0.41
1:B:406:SER:O	1:B:409:TRP:N	2.51	0.41
1:B:466:PHE:CE1	2:H:80:THR:HG22	2.55	0.41
2:C:142:GLN:OE1	2:N:145:ARG:NH1	2.48	0.41
2:C:234:PHE:CE1	2:E:253:ILE:HG13	2.55	0.41
2:D:1:MET:O	2:D:2:ASP:C	2.56	0.41
2:D:4:LEU:O	2:D:5:TYR:C	2.58	0.41
2:D:70:LEU:CD1	2:D:71:LEU:N	2.82	0.41
2:D:116:LEU:O	2:D:119:LEU:N	2.50	0.41
2:D:133:SER:O	2:D:134:GLU:C	2.59	0.41
2:E:74:ASP:O	2:E:75:ALA:C	2.58	0.41
2:F:27:VAL:O	2:F:31:ILE:HG12	2.20	0.41
2:F:234:PHE:CE1	2:H:253:ILE:HG13	2.55	0.41
2:G:125:LYS:C	2:G:127:ILE:H	2.24	0.41
2:H:168:ARG:HD2	2:H:175:ASN:O	2.20	0.41
2:K:168:ARG:HD2	2:K:175:ASN:O	2.20	0.41
2:M:155:PRO:O	2:M:186:SER:HB3	2.20	0.41
2:O:38:ILE:HG22	2:O:42:ASN:ND2	2.33	0.41
3:W:729:ARG:HH11	3:W:770:ASP:CG	2.22	0.41
1:A:170:TYR:CZ	1:A:682:PHE:HB2	2.55	0.41
1:A:236:ARG:HB2	1:A:238:VAL:CG2	2.47	0.41
1:A:382:LEU:O	1:A:385:ALA:HB3	2.20	0.41
1:A:647:LYS:HG2	1:A:654:VAL:HG21	1.99	0.41
1:B:456:PHE:O	1:B:457:GLN:O	2.38	0.41
1:B:646:LEU:O	1:B:649:LEU:HB2	2.20	0.41
1:B:721:VAL:CG1	1:B:722:ASN:H	2.30	0.41
2:D:168:ARG:HD2	2:D:175:ASN:O	2.20	0.41
2:E:35:ASN:O	2:E:37:MET:N	2.53	0.41
2:E:128:ASN:O	2:E:129:PHE:CB	2.68	0.41
2:G:144:ARG:O	2:G:145:ARG:CB	2.67	0.41
2:G:235:PRO:HA	2:G:249:PHE:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:14:ALA:O	2:I:16:ASP:N	2.53	0.41
2:J:239:ASN:ND2	2:J:246:THR:HG22	2.29	0.41
2:K:34:PHE:O	2:K:37:MET:HB3	2.20	0.41
2:L:6:SER:C	2:L:8:SER:N	2.73	0.41
2:L:48:THR:O	2:L:56:ILE:HA	2.20	0.41
2:L:151:THR:C	2:L:152:PHE:CD1	2.94	0.41
2:M:6:SER:C	2:M:8:SER:N	2.73	0.41
2:M:153:HIS:NE2	2:N:153:HIS:CD2	2.88	0.41
2:M:253:ILE:HG13	2:N:234:PHE:CE1	2.55	0.41
2:N:148:THR:OG1	2:N:332:GLU:HG2	2.20	0.41
2:N:239:ASN:ND2	2:N:246:THR:HG22	2.29	0.41
2:O:4:LEU:O	2:O:5:TYR:C	2.58	0.41
3:W:449:LEU:HD21	3:W:461:ILE:HD13	2.02	0.41
3:W:718:ILE:HG23	3:W:771:PHE:CE1	2.55	0.41
3:W:992:TYR:CE2	3:W:996:LEU:HD11	2.56	0.41
1:A:163:ARG:NE	1:A:631:LEU:O	2.54	0.41
1:A:414:VAL:C	1:A:416:ASN:H	2.22	0.41
1:A:807:ASN:C	1:A:809:PHE:N	2.73	0.41
1:B:275:PRO:HB2	1:B:278:ILE:HD13	2.03	0.41
1:B:322:THR:HG22	1:B:390:ARG:HD3	2.02	0.41
1:B:449:ASN:ND2	1:B:455:PRO:HB3	2.36	0.41
1:B:743:ASP:OD2	1:B:745:ALA:CA	2.68	0.41
1:B:776:ALA:O	1:B:777:LYS:C	2.58	0.41
2:C:153:HIS:CD2	2:E:153:HIS:CE1	3.08	0.41
2:C:253:ILE:HG13	2:D:234:PHE:CE1	2.55	0.41
2:D:14:ALA:C	2:D:18:ILE:HD12	2.41	0.41
2:D:34:PHE:O	2:D:37:MET:HB3	2.20	0.41
2:F:6:SER:C	2:F:8:SER:N	2.73	0.41
2:G:35:ASN:O	2:G:37:MET:N	2.54	0.41
2:J:149:GLY:C	2:J:150:PHE:CD1	2.94	0.41
2:M:35:ASN:O	2:M:37:MET:N	2.53	0.41
2:M:66:LEU:O	2:M:67:GLY:C	2.58	0.41
2:N:78:VAL:O	2:N:81:ALA:N	2.39	0.41
2:O:61:PHE:CD1	2:O:61:PHE:N	2.87	0.41
2:O:74:ASP:O	2:O:75:ALA:C	2.58	0.41
3:W:34:LEU:O	3:W:37:ARG:HB2	2.20	0.41
3:W:438:ILE:HD11	3:W:563:GLN:CG	2.50	0.41
3:W:619:HIS:ND1	3:W:619:HIS:N	2.65	0.41
1:A:542:GLN:N	1:A:542:GLN:OE1	2.53	0.41
1:B:191:LYS:HD3	1:B:191:LYS:HA	1.90	0.41
1:B:735:LEU:CG	1:B:760:VAL:O	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:807:ASN:C	1:B:809:PHE:H	2.23	0.41
1:B:812:VAL:C	1:B:814:ASN:H	2.23	0.41
2:D:6:SER:C	2:D:8:SER:N	2.73	0.41
2:D:74:ASP:O	2:D:75:ALA:C	2.59	0.41
2:D:227:PRO:O	2:D:228:ASP:HB2	2.20	0.41
2:D:253:ILE:HG13	2:E:234:PHE:CE1	2.55	0.41
2:G:11:LEU:HA	2:G:14:ALA:HB3	2.02	0.41
2:G:34:PHE:O	2:G:37:MET:HB3	2.20	0.41
2:H:9:LYS:HE3	2:H:13:ASP:OD1	2.20	0.41
2:H:34:PHE:O	2:H:37:MET:HB3	2.20	0.41
2:L:9:LYS:HE3	2:L:13:ASP:OD1	2.21	0.41
2:N:74:ASP:O	2:N:75:ALA:C	2.58	0.41
2:O:53:ASN:HD22	2:O:354:ALA:HB3	1.86	0.41
3:W:191:TYR:CZ	3:W:204:VAL:HG11	2.56	0.41
3:W:292:LEU:HD13	3:W:308:GLN:NE2	2.35	0.41
3:W:467:TYR:O	3:W:471:ILE:HD13	2.20	0.41
3:W:908:GLN:O	3:W:912:GLN:HG3	2.21	0.41
1:A:855:LEU:O	1:A:856:ALA:C	2.56	0.41
1:B:190:ASN:HB2	1:B:199:VAL:CG2	2.50	0.41
1:B:270:ILE:HG23	1:B:854:LEU:HD21	2.03	0.41
1:B:493:LEU:CD1	1:B:567:HIS:HB2	2.50	0.41
1:B:712:LEU:HG	1:B:721:VAL:O	2.19	0.41
1:B:786:ILE:O	1:B:787:VAL:C	2.59	0.41
2:D:239:ASN:ND2	2:D:246:THR:HG22	2.29	0.41
2:I:3:VAL:O	2:I:4:LEU:C	2.57	0.41
2:I:234:PHE:CE1	2:K:253:ILE:HG13	2.55	0.41
2:I:235:PRO:HA	2:I:249:PHE:O	2.21	0.41
2:I:239:ASN:ND2	2:I:246:THR:HG22	2.30	0.41
2:I:253:ILE:HG13	2:J:234:PHE:CE1	2.55	0.41
2:J:59:TRP:CD1	2:J:59:TRP:N	2.86	0.41
2:O:14:ALA:O	2:O:16:ASP:N	2.52	0.41
3:W:574:GLN:HG2	3:W:581:ILE:CG2	2.50	0.41
3:W:772:ILE:HD11	3:W:1047:LYS:HB2	2.02	0.41
3:W:934:ILE:HG23	3:W:965:LEU:CD1	2.49	0.41
1:A:178:PRO:CD	1:A:256:PHE:HE2	2.32	0.41
1:A:304:LEU:H	1:A:615:ASN:ND2	2.19	0.41
1:A:345:GLN:HG3	1:A:349:MET:CE	2.51	0.41
1:A:396:PHE:CD2	1:A:578:LEU:HD11	2.56	0.41
1:A:405:ILE:O	1:A:408:MET:HB2	2.21	0.41
1:A:679:LEU:O	1:A:681:ILE:N	2.54	0.41
1:B:136:ALA:O	1:B:137:ASN:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:166:PHE:CE2	1:B:689:MET:CA	2.99	0.41
1:B:178:PRO:CD	1:B:256:PHE:CE2	3.04	0.41
1:B:515:ARG:HG3	1:B:515:ARG:O	2.21	0.41
1:B:521:MET:N	1:B:521:MET:SD	2.94	0.41
1:B:552:TYR:O	1:B:553:ASN:C	2.58	0.41
2:C:6:SER:C	2:C:8:SER:N	2.74	0.41
2:C:61:PHE:CD1	2:C:61:PHE:N	2.89	0.41
2:D:124:PHE:N	2:D:124:PHE:CD1	2.89	0.41
2:F:253:ILE:HG13	2:G:234:PHE:CE1	2.55	0.41
2:G:227:PRO:O	2:G:228:ASP:HB2	2.20	0.41
2:J:11:LEU:HA	2:J:14:ALA:HB3	2.03	0.41
2:J:14:ALA:O	2:J:18:ILE:HD12	2.21	0.41
2:K:110:ALA:HB1	2:K:111:PRO:CD	2.50	0.41
2:L:21:GLY:O	2:L:22:THR:O	2.38	0.41
2:M:235:PRO:HA	2:M:249:PHE:O	2.21	0.41
2:O:35:ASN:O	2:O:37:MET:N	2.53	0.41
3:W:54:SER:O	3:W:55:LEU:HD23	2.20	0.41
3:W:205:THR:HG23	3:W:206:TRP:N	2.36	0.41
3:W:229:LEU:HD21	3:W:244:VAL:HG21	2.01	0.41
3:W:255:VAL:HG23	3:W:310:TRP:CH2	2.56	0.41
1:A:120:THR:HB	1:A:121:LYS:H	1.66	0.41
1:A:310:LEU:HD11	1:A:614:TYR:OH	2.21	0.41
1:A:503:ILE:HG13	1:A:503:ILE:H	1.72	0.41
1:A:701:GLN:CB	1:A:826:TYR:HD2	2.33	0.41
1:B:252:PHE:O	1:B:253:ASN:C	2.59	0.41
1:B:286:LEU:O	1:B:287:ASN:ND2	2.54	0.41
1:B:721:VAL:HG12	1:B:799:LEU:HD21	1.98	0.41
2:C:100:MET:HG3	2:C:388:VAL:HG11	2.01	0.41
2:C:145:ARG:NH1	2:C:145:ARG:CB	2.79	0.41
2:D:9:LYS:HE3	2:D:13:ASP:OD1	2.21	0.41
2:G:14:ALA:O	2:G:16:ASP:N	2.54	0.41
2:H:6:SER:C	2:H:8:SER:N	2.74	0.41
2:H:235:PRO:HA	2:H:249:PHE:O	2.21	0.41
2:I:153:HIS:CD2	2:K:153:HIS:CE1	3.08	0.41
2:J:136:ILE:HD12	2:J:139:TRP:HB3	2.03	0.41
2:L:23:LEU:HD22	2:L:72:ASN:OD1	2.21	0.41
2:L:35:ASN:OD1	2:L:65:LEU:HD22	2.21	0.41
2:L:150:PHE:O	2:L:330:VAL:HG13	2.20	0.41
2:L:253:ILE:HG13	2:M:234:PHE:CE1	2.55	0.41
2:M:124:PHE:CD1	2:M:124:PHE:N	2.89	0.41
2:M:168:ARG:HD2	2:M:175:ASN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:7:LEU:H	2:N:7:LEU:HG	1.54	0.41
2:O:168:ARG:HD2	2:O:175:ASN:O	2.20	0.41
3:W:200:PRO:O	3:W:203:LEU:N	2.54	0.41
3:W:690:ARG:HH11	3:W:690:ARG:CB	2.34	0.41
3:W:802:ILE:O	3:W:808:PHE:HB2	2.21	0.41
3:W:887:VAL:HG12	3:W:1054:LEU:HG	2.02	0.41
1:A:202:SER:O	1:A:205:ALA:HB3	2.21	0.41
1:A:283:ASN:HD21	1:A:869:VAL:H	1.69	0.41
1:A:287:ASN:O	1:A:858:VAL:HA	2.20	0.41
1:A:368:THR:HG23	1:A:579:THR:O	2.21	0.41
1:A:374:ALA:HB1	1:A:580:SER:HA	2.02	0.41
1:A:382:LEU:HD12	1:A:382:LEU:HA	1.60	0.41
1:A:472:LEU:N	1:A:472:LEU:HD23	2.36	0.41
1:A:552:TYR:O	1:A:553:ASN:C	2.59	0.41
1:A:601:PHE:CD1	1:A:601:PHE:N	2.80	0.41
1:A:622:VAL:O	1:A:623:ALA:C	2.59	0.41
1:A:756:PRO:C	1:A:757:VAL:CG2	2.89	0.41
1:A:782:VAL:CG2	1:A:798:ILE:HD11	2.51	0.41
1:A:862:THR:HG22	1:A:863:VAL:N	2.36	0.41
1:B:159:ASP:OD2	1:B:761:GLY:CA	2.69	0.41
1:B:349:MET:HB2	1:B:349:MET:HE2	1.88	0.41
1:B:489:LEU:C	1:B:489:LEU:HD23	2.41	0.41
1:B:492:VAL:O	1:B:493:LEU:O	2.38	0.41
1:B:763:LEU:HA	1:B:763:LEU:HD23	1.80	0.41
1:B:771:VAL:O	1:B:775:ILE:HD13	2.21	0.41
1:B:791:LYS:O	1:B:792:VAL:CG1	2.66	0.41
2:C:33:GLN:O	2:C:36:GLN:HB3	2.21	0.41
2:D:31:ILE:O	2:D:32:GLN:C	2.59	0.41
2:D:128:ASN:HD22	2:E:19:VAL:CG2	2.34	0.41
2:D:235:PRO:HA	2:D:249:PHE:O	2.21	0.41
2:E:23:LEU:HD22	2:E:25:SER:OG	2.21	0.41
2:F:9:LYS:HE3	2:F:13:ASP:OD1	2.21	0.41
2:F:24:TYR:C	2:F:26:ASN:H	2.24	0.41
2:F:135:TYR:CZ	2:F:342:MET:HE3	2.56	0.41
2:H:91:PHE:O	2:H:95:VAL:HG23	2.21	0.41
2:I:9:LYS:HE3	2:I:13:ASP:OD1	2.20	0.41
2:I:72:ASN:CG	2:K:126:ARG:NH1	2.74	0.41
2:I:106:ARG:HG2	2:I:107:ASN:H	1.84	0.41
2:I:227:PRO:O	2:I:228:ASP:HB2	2.20	0.41
2:I:397:LYS:HZ1	2:K:150:PHE:HA	1.86	0.41
2:J:9:LYS:HE3	2:J:13:ASP:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:27:VAL:O	2:J:28:SER:C	2.57	0.41
2:J:168:ARG:HD2	2:J:175:ASN:O	2.20	0.41
2:L:1:MET:O	2:L:2:ASP:C	2.59	0.41
2:L:4:LEU:O	2:L:5:TYR:C	2.59	0.41
2:L:14:ALA:O	2:L:16:ASP:N	2.54	0.41
2:L:26:ASN:OD1	2:N:33:GLN:HB2	2.21	0.41
2:N:124:PHE:C	2:N:126:ARG:H	2.24	0.41
2:O:5:TYR:CE2	2:O:131:ASN:HA	2.55	0.41
2:O:23:LEU:CG	2:O:24:TYR:N	2.83	0.41
2:O:34:PHE:O	2:O:35:ASN:C	2.59	0.41
2:O:147:ARG:O	2:O:148:THR:CB	2.66	0.41
2:O:152:PHE:CD1	2:O:152:PHE:N	2.89	0.41
3:W:133:ALA:CB	3:W:701:ARG:HG3	2.50	0.41
3:W:169:LEU:HD21	3:W:227:LYS:HG3	2.03	0.41
3:W:499:GLN:NE2	3:W:689:PHE:HE1	2.19	0.41
3:W:503:TYR:HB2	3:W:687:ILE:HD13	2.02	0.41
3:W:675:ILE:C	3:W:675:ILE:HD12	2.41	0.41
3:W:802:ILE:HG13	3:W:808:PHE:HD2	1.85	0.41
3:W:810:ASN:O	3:W:814:ARG:HB2	2.20	0.41
3:W:871:LYS:HD3	3:W:1074:THR:HG21	2.01	0.41
3:W:884:PHE:CG	3:W:1058:TYR:CD1	3.09	0.41
3:W:1078:SER:HA	3:W:1079:PRO:HD3	1.76	0.41
1:A:370:ILE:HD11	3:W:933:LEU:HA	2.01	0.41
1:A:609:ASN:O	1:A:610:PHE:C	2.59	0.41
1:A:726:ASN:HD22	1:A:726:ASN:HA	1.60	0.41
1:A:763:LEU:HA	1:A:764:PRO:HD3	1.68	0.41
1:A:771:VAL:HG12	1:A:809:PHE:CB	2.51	0.41
1:B:207:ILE:HG13	1:B:207:ILE:H	1.62	0.41
1:B:229:ARG:HD2	1:B:230:GLN:NE2	2.31	0.41
1:B:288:MET:HA	1:B:288:MET:HE1	2.02	0.41
1:B:379:PHE:O	1:B:380:LYS:C	2.59	0.41
1:B:411:LEU:HD23	1:B:411:LEU:HA	1.83	0.41
1:B:415:PRO:HB3	1:B:480:PHE:HB2	2.01	0.41
1:B:451:ASP:N	1:B:452:PRO:CD	2.82	0.41
1:B:672:LEU:O	1:B:673:PRO:O	2.38	0.41
2:C:5:TYR:HE2	2:C:130:ASP:O	2.04	0.41
2:C:67:GLY:C	2:C:69:THR:N	2.72	0.41
2:C:204:ASN:HB3	2:C:296:ARG:HB3	2.03	0.41
2:D:34:PHE:O	2:D:35:ASN:C	2.59	0.41
2:D:204:ASN:HB3	2:D:296:ARG:HB3	2.03	0.41
2:F:74:ASP:O	2:F:75:ALA:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:14:ALA:O	2:H:16:ASP:N	2.54	0.41
2:H:123:LYS:HG3	2:H:124:PHE:CD1	2.56	0.41
2:I:16:ASP:HB3	2:K:131:ASN:C	2.42	0.41
2:J:27:VAL:O	2:J:31:ILE:HG12	2.20	0.41
2:K:235:PRO:HA	2:K:249:PHE:O	2.21	0.41
2:L:42:ASN:CB	2:L:62:ASP:HA	2.51	0.41
2:N:34:PHE:O	2:N:35:ASN:C	2.59	0.41
2:N:235:PRO:HA	2:N:249:PHE:O	2.21	0.41
3:W:929:ALA:N	3:W:984:ASP:OD2	2.53	0.41
1:A:594:ILE:HA	1:A:595:PRO:HD3	1.86	0.40
1:B:401:TYR:CD1	1:B:401:TYR:N	2.74	0.40
1:B:743:ASP:OD1	1:B:744:TYR:N	2.53	0.40
1:B:747:ILE:H	1:B:747:ILE:HG22	1.51	0.40
1:B:854:LEU:HD22	1:B:855:LEU:N	2.36	0.40
1:B:869:VAL:HG13	1:B:873:ASN:CA	2.51	0.40
2:D:38:ILE:H	2:D:38:ILE:HG13	1.57	0.40
2:D:144:ARG:O	2:D:145:ARG:CB	2.65	0.40
2:E:235:PRO:HA	2:E:249:PHE:O	2.21	0.40
2:H:34:PHE:O	2:H:35:ASN:C	2.60	0.40
2:I:11:LEU:HA	2:I:14:ALA:HB3	2.02	0.40
2:I:116:LEU:O	2:I:119:LEU:N	2.50	0.40
2:I:144:ARG:HD2	2:J:82:ARG:CZ	2.51	0.40
2:J:110:ALA:CB	2:J:111:PRO:CD	2.96	0.40
2:J:126:ARG:NH1	2:K:72:ASN:ND2	2.69	0.40
2:J:133:SER:O	2:J:134:GLU:C	2.59	0.40
2:J:355:ILE:HA	2:J:356:PRO:HD3	1.96	0.40
2:K:38:ILE:H	2:K:38:ILE:HG13	1.58	0.40
2:L:131:ASN:N	2:L:131:ASN:HD22	2.19	0.40
2:L:234:PHE:CE1	2:N:253:ILE:HG13	2.55	0.40
3:W:444:ASP:C	3:W:446:PRO:HD3	2.41	0.40
3:W:490:TYR:HA	3:W:628:VAL:HG22	2.02	0.40
3:W:524:TRP:CD1	3:W:607:LEU:HD22	2.55	0.40
3:W:798:ILE:HB	3:W:845:ILE:HG12	2.03	0.40
3:W:873:THR:HA	3:W:1073:ILE:CG2	2.50	0.40
3:W:917:ARG:HD2	3:W:919:TYR:CZ	2.56	0.40
1:A:200:VAL:O	1:A:201:ASP:HB3	2.21	0.40
1:A:249:ASP:O	1:A:250:TYR:C	2.60	0.40
1:A:264:PRO:O	1:A:265:LEU:HB2	2.22	0.40
1:A:283:ASN:ND2	1:A:869:VAL:H	2.18	0.40
1:A:594:ILE:HG23	1:A:595:PRO:N	2.36	0.40
1:A:714:ARG:O	1:A:715:ASP:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:785:GLN:HB2	1:A:786:ILE:H	1.60	0.40
1:A:793:ASP:OD1	1:A:793:ASP:N	2.54	0.40
1:B:150:LEU:CD1	1:B:696:SER:HA	2.50	0.40
1:B:224:PHE:HE1	2:O:70:LEU:C	2.24	0.40
1:B:543:LEU:O	1:B:544:VAL:C	2.58	0.40
1:B:558:MET:O	1:B:559:ALA:C	2.60	0.40
1:B:847:THR:O	1:B:847:THR:HG22	2.20	0.40
2:D:214:LEU:HD23	2:D:214:LEU:N	2.36	0.40
2:E:65:LEU:C	2:E:66:LEU:HG	2.42	0.40
2:E:91:PHE:O	2:E:95:VAL:HG23	2.22	0.40
2:F:65:LEU:HB3	2:F:66:LEU:H	1.69	0.40
2:G:104:SER:O	2:G:108:GLY:HA2	2.21	0.40
2:H:65:LEU:O	2:H:66:LEU:HD23	2.22	0.40
2:H:152:PHE:HB3	2:H:337:ASP:CB	2.51	0.40
2:I:204:ASN:HB3	2:I:296:ARG:HB3	2.03	0.40
2:L:153:HIS:CE1	2:M:153:HIS:CD2	3.09	0.40
3:W:62:TYR:O	3:W:66:ILE:HG12	2.22	0.40
3:W:75:LEU:HD12	3:W:75:LEU:N	2.37	0.40
3:W:193:TYR:O	3:W:197:LYS:HB2	2.21	0.40
1:A:338:GLU:O	1:A:339:LEU:HG	2.22	0.40
1:A:362:SER:HA	1:A:365:GLN:HE21	1.87	0.40
1:A:451:ASP:O	1:A:452:PRO:O	2.39	0.40
1:A:506:LEU:HD21	1:A:544:VAL:N	2.36	0.40
1:A:542:GLN:HA	1:A:545:ASP:OD2	2.20	0.40
1:A:707:TYR:H	1:A:707:TYR:HD1	1.69	0.40
1:A:715:ASP:O	1:A:718:TYR:O	2.39	0.40
1:B:497:ILE:HG23	2:I:68:THR:CG2	2.52	0.40
1:B:622:VAL:O	1:B:623:ALA:C	2.59	0.40
1:B:743:ASP:OD2	1:B:745:ALA:N	2.54	0.40
2:C:214:LEU:HD23	2:C:214:LEU:N	2.37	0.40
2:E:136:ILE:HD12	2:E:139:TRP:HB3	2.04	0.40
2:F:14:ALA:O	2:F:16:ASP:N	2.54	0.40
2:F:155:PRO:O	2:F:186:SER:HB3	2.21	0.40
2:F:204:ASN:HB3	2:F:296:ARG:HB3	2.03	0.40
2:G:4:LEU:O	2:G:5:TYR:C	2.59	0.40
2:H:23:LEU:H	2:H:26:ASN:HD21	1.67	0.40
2:I:145:ARG:NH1	2:I:145:ARG:CB	2.65	0.40
2:J:124:PHE:O	2:J:126:ARG:N	2.54	0.40
2:K:48:THR:O	2:K:56:ILE:HA	2.20	0.40
2:K:88:PHE:O	2:K:91:PHE:HB3	2.22	0.40
2:M:11:LEU:HA	2:M:14:ALA:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:131:ASN:N	2:M:131:ASN:ND2	2.70	0.40
2:M:204:ASN:HB3	2:M:296:ARG:HB3	2.04	0.40
2:O:9:LYS:HE3	2:O:13:ASP:OD1	2.21	0.40
2:O:204:ASN:HB3	2:O:296:ARG:HB3	2.03	0.40
3:W:539:ILE:HG23	3:W:562:LYS:CG	2.42	0.40
3:W:687:ILE:CG2	3:W:687:ILE:O	2.69	0.40
1:A:154:THR:O	1:A:155:LEU:C	2.59	0.40
1:A:163:ARG:NH2	1:A:736:GLU:OE1	2.52	0.40
1:A:304:LEU:N	1:A:615:ASN:ND2	2.67	0.40
1:A:536:LEU:N	1:A:536:LEU:HD22	2.36	0.40
1:A:657:VAL:HA	1:A:658:PRO:HD3	1.64	0.40
1:A:854:LEU:HD22	1:A:855:LEU:H	1.86	0.40
1:B:190:ASN:HB3	1:B:197:GLY:O	2.21	0.40
1:B:239:VAL:HG21	1:B:845:ASN:O	2.21	0.40
1:B:244:ILE:HG23	1:B:244:ILE:O	2.22	0.40
1:B:639:LYS:O	1:B:641:ILE:N	2.55	0.40
1:B:804:SER:O	1:B:805:ASP:HB2	2.22	0.40
1:B:870:ALA:C	1:B:872:ASP:H	2.21	0.40
2:D:11:LEU:HA	2:D:14:ALA:HB3	2.03	0.40
2:D:124:PHE:O	2:D:126:ARG:N	2.54	0.40
2:F:11:LEU:HB2	2:F:395:LEU:HD21	2.04	0.40
2:H:108:GLY:C	2:H:110:ALA:N	2.75	0.40
2:I:31:ILE:O	2:I:32:GLN:C	2.59	0.40
2:K:11:LEU:HA	2:K:14:ALA:HB3	2.03	0.40
2:K:133:SER:O	2:K:134:GLU:C	2.60	0.40
2:L:59:TRP:CD1	2:L:59:TRP:N	2.88	0.40
2:M:31:ILE:O	2:M:32:GLN:C	2.60	0.40
2:N:91:PHE:O	2:N:95:VAL:HG23	2.21	0.40
2:O:34:PHE:O	2:O:37:MET:HB3	2.21	0.40
2:O:100:MET:HG3	2:O:388:VAL:CG1	2.51	0.40
2:O:144:ARG:O	2:O:145:ARG:CG	2.69	0.40
3:W:288:LEU:O	3:W:288:LEU:HD12	2.20	0.40
3:W:844:PRO:O	3:W:848:GLU:HB2	2.20	0.40
3:W:865:VAL:HG13	3:W:866:THR:HG23	2.02	0.40
1:A:131:LEU:HA	1:A:132:PRO:HD3	1.90	0.40
1:A:303:LEU:HA	1:A:615:ASN:HD21	1.82	0.40
1:A:359:THR:O	1:A:359:THR:HG22	2.22	0.40
1:A:421:ARG:C	1:A:423:SER:H	2.25	0.40
1:A:510:LEU:HA	1:A:513:LEU:CD1	2.51	0.40
1:A:536:LEU:N	1:A:536:LEU:CD2	2.85	0.40
1:A:815:TYR:CD1	1:A:815:TYR:N	2.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:87:GLN:C	1:B:89:GLU:H	2.25	0.40
1:B:373:GLN:O	1:B:374:ALA:C	2.59	0.40
1:B:477:ASN:C	1:B:479:GLN:N	2.75	0.40
1:B:556:THR:HG22	1:B:557:LEU:N	2.36	0.40
1:B:746:GLN:O	1:B:750:MET:HG3	2.21	0.40
2:C:14:ALA:O	2:C:18:ILE:HD12	2.21	0.40
2:D:128:ASN:O	2:D:129:PHE:HB3	2.21	0.40
2:D:378:ARG:O	2:D:382:LEU:HB2	2.22	0.40
2:E:100:MET:HG3	2:E:388:VAL:HG11	2.04	0.40
2:F:235:PRO:HA	2:F:249:PHE:O	2.21	0.40
2:G:34:PHE:O	2:G:35:ASN:C	2.60	0.40
2:G:131:ASN:N	2:G:131:ASN:HD22	2.20	0.40
2:K:116:LEU:O	2:K:119:LEU:N	2.50	0.40
2:K:204:ASN:HB3	2:K:296:ARG:HB3	2.04	0.40
2:L:74:ASP:O	2:L:75:ALA:C	2.59	0.40
2:L:355:ILE:HA	2:L:356:PRO:HD3	1.96	0.40
2:M:4:LEU:O	2:M:5:TYR:C	2.58	0.40
2:O:101:VAL:HG23	2:O:102:ARG:N	2.36	0.40
3:W:255:VAL:HG11	3:W:316:ILE:HB	2.02	0.40
3:W:463:PHE:O	3:W:464:ILE:HG12	2.21	0.40
3:W:982:SER:O	3:W:985:LYS:HB2	2.21	0.40

There are no symmetry-related clashes.

4.3 Torsion angles (i)

4.3.1 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	779/880 (88%)	431 (55%)	199 (26%)	149 (19%)	0 2
1	B	808/880 (92%)	458 (57%)	204 (25%)	146 (18%)	0 2
2	C	395/397 (100%)	318 (80%)	54 (14%)	23 (6%)	1 20
2	D	395/397 (100%)	315 (80%)	50 (13%)	30 (8%)	1 15

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	E	395/397 (100%)	323 (82%)	49 (12%)	23 (6%)	1	20
2	F	395/397 (100%)	324 (82%)	47 (12%)	24 (6%)	1	18
2	G	395/397 (100%)	323 (82%)	49 (12%)	23 (6%)	1	20
2	H	395/397 (100%)	323 (82%)	50 (13%)	22 (6%)	2	20
2	I	395/397 (100%)	320 (81%)	51 (13%)	24 (6%)	1	18
2	J	395/397 (100%)	320 (81%)	53 (13%)	22 (6%)	2	20
2	K	395/397 (100%)	318 (80%)	52 (13%)	25 (6%)	1	18
2	L	395/397 (100%)	322 (82%)	47 (12%)	26 (7%)	1	17
2	M	395/397 (100%)	322 (82%)	52 (13%)	21 (5%)	2	21
2	N	395/397 (100%)	317 (80%)	50 (13%)	28 (7%)	1	16
2	O	395/397 (100%)	317 (80%)	47 (12%)	31 (8%)	1	14
3	W	933/1089 (86%)	807 (86%)	93 (10%)	33 (4%)	3	28
All	All	7655/8010 (96%)	5858 (76%)	1147 (15%)	650 (8%)	1	12

All (650) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	101	LYS
1	A	130	GLN
1	A	193	SER
1	A	198	LYS
1	A	220	ALA
1	A	234	ALA
1	A	246	HIS
1	A	252	PHE
1	A	260	GLN
1	A	275	PRO
1	A	283	ASN
1	A	287	ASN
1	A	306	ASP
1	A	315	GLU
1	A	338	GLU
1	A	340	VAL
1	A	356	GLU
1	A	358	LEU
1	A	370	ILE
1	A	413	VAL
1	A	443	GLN

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Mol	Chain	Res	Type
1	A	446	HIS
1	A	451	ASP
1	A	452	PRO
1	A	453	GLN
1	A	484	VAL
1	A	485	ILE
1	A	488	VAL
1	A	489	LEU
1	A	501	HIS
1	A	523	VAL
1	A	558	MET
1	A	564	ASN
1	A	570	THR
1	A	573	THR
1	A	585	CYS
1	A	650	HIS
1	A	651	ILE
1	A	660	ASP
1	A	661	GLN
1	A	689	MET
1	A	701	GLN
1	A	715	ASP
1	A	743	ASP
1	A	745	ALA
1	A	770	SER
1	A	771	VAL
1	A	772	ILE
1	A	781	THR
1	A	782	VAL
1	A	785	GLN
1	A	786	ILE
1	A	808	ASP
1	A	811	LEU
1	A	814	ASN
1	A	828	GLN
1	A	854	LEU
1	A	855	LEU
1	A	856	ALA
1	A	857	PHE
1	B	191	LYS
1	B	194	ARG
1	B	195	ASP

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Mol	Chain	Res	Type
1	B	196	ALA
1	B	200	VAL
1	B	215	GLU
1	B	218	GLU
1	B	226	ALA
1	B	227	GLU
1	B	252	PHE
1	B	306	ASP
1	B	355	LEU
1	B	361	GLN
1	B	369	GLY
1	B	400	ASN
1	B	417	ASP
1	B	446	HIS
1	B	447	TYR
1	B	451	ASP
1	B	457	GLN
1	B	458	ILE
1	B	479	GLN
1	B	481	ARG
1	B	503	ILE
1	B	504	ASN
1	B	574	GLU
1	B	585	CYS
1	B	634	TYR
1	B	640	ALA
1	B	651	ILE
1	B	655	ALA
1	B	673	PRO
1	B	699	ILE
1	B	702	GLY
1	B	724	ALA
1	B	764	PRO
1	B	765	PHE
1	B	777	LYS
1	B	782	VAL
1	B	785	GLN
1	B	786	ILE
1	B	790	ARG
1	B	792	VAL
1	B	805	ASP
1	B	806	SER

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Mol	Chain	Res	Type
1	B	855	LEU
1	B	856	ALA
1	B	875	ARG
2	C	22	THR
2	C	70	LEU
2	C	134	GLU
2	D	25	SER
2	D	70	LEU
2	D	126	ARG
2	D	128	ASN
2	D	134	GLU
2	D	148	THR
2	E	22	THR
2	E	25	SER
2	E	106	ARG
2	E	134	GLU
2	F	22	THR
2	F	62	ASP
2	F	70	LEU
2	F	105	GLN
2	F	134	GLU
2	F	145	ARG
2	F	148	THR
2	G	20	GLU
2	G	22	THR
2	G	134	GLU
2	G	148	THR
2	H	22	THR
2	H	107	ASN
2	H	134	GLU
2	I	25	SER
2	I	62	ASP
2	I	134	GLU
2	I	148	THR
2	J	20	GLU
2	J	70	LEU
2	J	106	ARG
2	J	134	GLU
2	K	22	THR
2	K	70	LEU
2	K	126	ARG
2	K	128	ASN

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Mol	Chain	Res	Type
2	K	134	GLU
2	K	148	THR
2	L	22	THR
2	L	62	ASP
2	L	126	ARG
2	L	134	GLU
2	L	145	ARG
2	L	148	THR
2	M	22	THR
2	M	25	SER
2	M	128	ASN
2	M	134	GLU
2	N	22	THR
2	N	25	SER
2	N	70	LEU
2	N	128	ASN
2	N	134	GLU
2	N	148	THR
2	O	65	LEU
2	O	68	THR
2	O	70	LEU
2	O	134	GLU
2	O	145	ARG
2	O	148	THR
3	W	54	SER
3	W	397	MET
3	W	401	SER
3	W	864	PRO
3	W	1082	ASN
3	W	1083	ALA
3	W	1084	ASN
1	A	143	ARG
1	A	202	SER
1	A	215	GLU
1	A	219	GLY
1	A	226	ALA
1	A	227	GLU
1	A	253	ASN
1	A	264	PRO
1	A	307	ARG
1	A	336	LEU
1	A	352	ASP

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Mol	Chain	Res	Type
1	A	369	GLY
1	A	415	PRO
1	A	438	PRO
1	A	441	GLY
1	A	458	ILE
1	A	465	ASN
1	A	503	ILE
1	A	559	ALA
1	A	571	LEU
1	A	590	ASN
1	A	608	VAL
1	A	630	ARG
1	A	654	VAL
1	A	680	ASP
1	A	739	MET
1	A	804	SER
1	A	815	TYR
1	A	823	THR
1	A	847	THR
1	A	866	ILE
1	B	73	LEU
1	B	141	GLU
1	B	142	LEU
1	B	212	PHE
1	B	230	GLN
1	B	253	ASN
1	B	261	LEU
1	B	264	PRO
1	B	265	LEU
1	B	278	ILE
1	B	282	VAL
1	B	283	ASN
1	B	307	ARG
1	B	313	ASN
1	B	338	GLU
1	B	388	SER
1	B	436	ILE
1	B	438	PRO
1	B	443	GLN
1	B	452	PRO
1	B	465	ASN
1	B	478	ASN

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Mol	Chain	Res	Type
1	B	487	GLY
1	B	488	VAL
1	B	489	LEU
1	B	493	LEU
1	B	496	ASN
1	B	500	GLY
1	B	520	THR
1	B	524	ASP
1	B	608	VAL
1	B	631	LEU
1	B	637	LYS
1	B	638	MET
1	B	654	VAL
1	B	674	VAL
1	B	676	VAL
1	B	787	VAL
1	B	854	LEU
2	C	7	LEU
2	C	20	GLU
2	C	25	SER
2	C	62	ASP
2	C	106	ARG
2	C	130	ASP
2	C	148	THR
2	D	7	LEU
2	D	20	GLU
2	D	42	ASN
2	D	65	LEU
2	D	67	GLY
2	D	69	THR
2	D	72	ASN
2	D	90	ASP
2	D	106	ARG
2	D	147	ARG
2	E	7	LEU
2	E	62	ASP
2	E	90	ASP
2	E	126	ARG
2	E	128	ASN
2	E	130	ASP
2	E	148	THR
2	F	7	LEU

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Mol	Chain	Res	Type
2	F	25	SER
2	F	128	ASN
2	G	7	LEU
2	G	25	SER
2	G	125	LYS
2	G	126	ARG
2	H	7	LEU
2	H	25	SER
2	H	42	ASN
2	H	51	ILE
2	H	62	ASP
2	H	68	THR
2	H	109	ILE
2	H	128	ASN
2	I	7	LEU
2	I	90	ASP
2	I	125	LYS
2	I	147	ARG
2	J	7	LEU
2	J	51	ILE
2	J	62	ASP
2	J	90	ASP
2	J	126	ARG
2	J	128	ASN
2	J	130	ASP
2	K	7	LEU
2	K	20	GLU
2	K	62	ASP
2	K	106	ARG
2	K	125	LYS
2	L	7	LEU
2	L	25	SER
2	L	69	THR
2	L	72	ASN
2	L	106	ARG
2	L	128	ASN
2	L	147	ARG
2	M	7	LEU
2	M	42	ASN
2	M	90	ASP
2	N	7	LEU
2	N	42	ASN

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Mol	Chain	Res	Type
2	N	62	ASP
2	N	65	LEU
2	N	90	ASP
2	N	145	ARG
2	O	7	LEU
2	O	22	THR
2	O	25	SER
2	O	62	ASP
2	O	90	ASP
2	O	105	GLN
3	W	102	LEU
3	W	201	TYR
3	W	521	VAL
3	W	825	ASN
3	W	862	GLN
3	W	865	VAL
3	W	1002	GLY
1	A	137	ASN
1	A	142	LEU
1	A	218	GLU
1	A	254	GLU
1	A	265	LEU
1	A	276	GLU
1	A	496	ASN
1	A	497	ILE
1	A	521	MET
1	A	525	TYR
1	A	579	THR
1	A	597	PRO
1	A	648	ARG
1	A	658	PRO
1	A	676	VAL
1	A	687	MET
1	A	696	SER
1	A	773	SER
1	A	816	ASP
1	A	849	THR
1	B	237	ASN
1	B	254	GLU
1	B	273	TYR
1	B	359	THR
1	B	387	LEU

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Mol	Chain	Res	Type
1	B	421	ARG
1	B	549	LEU
1	B	579	THR
1	B	581	VAL
1	B	590	ASN
1	B	635	GLN
1	B	656	ARG
1	B	670	ARG
1	B	675	GLU
1	B	794	THR
1	B	849	THR
2	C	13	ASP
2	C	42	ASN
2	C	69	THR
2	C	90	ASP
2	C	126	ARG
2	D	13	ASP
2	D	32	GLN
2	D	62	ASP
2	D	68	THR
2	D	125	LYS
2	E	13	ASP
2	E	32	GLN
2	E	70	LEU
2	F	13	ASP
2	F	32	GLN
2	F	90	ASP
2	F	126	ARG
2	F	130	ASP
2	G	13	ASP
2	G	32	GLN
2	G	42	ASN
2	G	90	ASP
2	G	128	ASN
2	H	13	ASP
2	H	32	GLN
2	H	90	ASP
2	I	13	ASP
2	I	32	GLN
2	I	126	ARG
2	I	128	ASN
2	I	146	GLN

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Mol	Chain	Res	Type
2	J	13	ASP
2	J	42	ASN
2	K	13	ASP
2	K	25	SER
2	K	32	GLN
2	K	90	ASP
2	K	111	PRO
2	L	13	ASP
2	L	20	GLU
2	L	41	MET
2	L	90	ASP
2	L	125	LYS
2	M	13	ASP
2	M	106	ARG
2	N	13	ASP
2	N	67	GLY
2	N	106	ARG
2	N	125	LYS
2	N	155	PRO
2	O	20	GLU
2	O	24	TYR
2	O	32	GLN
2	O	42	ASN
2	O	73	LEU
2	O	106	ARG
2	O	126	ARG
2	O	155	PRO
3	W	81	LYS
3	W	582	LYS
3	W	870	SER
1	A	131	LEU
1	A	144	ASN
1	A	155	LEU
1	A	187	ALA
1	A	195	ASP
1	A	206	SER
1	A	212	PHE
1	A	299	ILE
1	A	333	VAL
1	A	372	SER
1	A	387	LEU
1	A	457	GLN

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Mol	Chain	Res	Type
1	A	518	PHE
1	A	524	ASP
1	A	549	LEU
1	A	552	TYR
1	A	557	LEU
1	A	581	VAL
1	A	700	ALA
1	A	730	PHE
1	A	853	ASP
1	A	877	MET
1	B	85	GLU
1	B	101	LYS
1	B	185	ASP
1	B	193	SER
1	B	206	SER
1	B	294	SER
1	B	302	ASN
1	B	372	SER
1	B	442	MET
1	B	466	PHE
1	B	483	VAL
1	B	552	TYR
1	B	564	ASN
1	B	597	PRO
1	B	639	LYS
1	B	680	ASP
1	B	731	GLN
2	C	32	GLN
2	C	38	ILE
2	C	89	VAL
2	D	38	ILE
2	D	41	MET
2	D	89	VAL
2	D	123	LYS
2	D	145	ARG
2	E	38	ILE
2	F	20	GLU
2	F	38	ILE
2	F	42	ASN
2	G	38	ILE
2	G	130	ASP
2	G	145	ARG

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Mol	Chain	Res	Type
2	H	36	GLN
2	H	38	ILE
2	H	89	VAL
2	H	106	ARG
2	I	36	GLN
2	I	38	ILE
2	I	42	ASN
2	I	89	VAL
2	I	145	ARG
2	J	32	GLN
2	J	36	GLN
2	J	38	ILE
2	J	89	VAL
2	K	9	LYS
2	K	36	GLN
2	K	38	ILE
2	K	89	VAL
2	L	32	GLN
2	L	36	GLN
2	L	38	ILE
2	M	20	GLU
2	M	32	GLN
2	M	38	ILE
2	M	55	PRO
2	M	89	VAL
2	M	126	ARG
2	N	20	GLU
2	N	32	GLN
2	N	36	GLN
2	N	38	ILE
2	N	89	VAL
2	N	126	ARG
2	O	13	ASP
2	O	38	ILE
2	O	89	VAL
2	O	128	ASN
3	W	256	ASP
3	W	463	PHE
3	W	464	ILE
3	W	596	THR
3	W	760	ASN
3	W	790	SER

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Mol	Chain	Res	Type
3	W	795	LYS
1	A	152	LYS
1	A	196	ALA
1	A	351	GLN
1	B	86	ILE
1	B	103	SER
1	B	207	ILE
1	B	277	ARG
1	B	399	THR
1	B	416	ASN
1	B	437	TYR
1	B	827	LYS
2	C	36	GLN
2	C	145	ARG
2	D	9	LYS
2	D	36	GLN
2	E	36	GLN
2	E	55	PRO
2	E	89	VAL
2	F	9	LYS
2	F	36	GLN
2	F	89	VAL
2	G	36	GLN
2	G	89	VAL
2	G	123	LYS
2	G	155	PRO
2	H	9	LYS
2	H	130	ASP
2	I	9	LYS
2	I	41	MET
2	J	125	LYS
2	K	42	ASN
2	K	130	ASP
2	L	9	LYS
2	L	65	LEU
2	L	89	VAL
2	M	36	GLN
2	M	41	MET
2	M	145	ARG
2	N	9	LYS
2	N	69	THR
2	O	9	LYS

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Mol	Chain	Res	Type
2	O	36	GLN
2	O	41	MET
3	W	192	GLU
3	W	586	TYR
1	A	207	ILE
1	A	422	GLU
1	A	622	VAL
1	A	733	ILE
1	A	819	PRO
1	B	521	MET
1	B	557	LEU
1	B	622	VAL
1	B	677	ARG
1	B	781	THR
1	B	857	PHE
2	C	3	VAL
2	E	9	LYS
2	E	20	GLU
2	E	42	ASN
2	F	55	PRO
2	G	3	VAL
2	G	9	LYS
2	I	123	LYS
2	J	3	VAL
2	J	9	LYS
2	J	69	THR
2	K	3	VAL
2	K	147	ARG
2	L	3	VAL
2	N	3	VAL
2	O	3	VAL
3	W	1078	SER
1	A	247	PRO
1	A	334	PRO
1	B	519	PRO
1	B	723	ILE
1	B	865	PRO
2	D	3	VAL
2	E	3	VAL
2	F	3	VAL
2	H	3	VAL
2	I	3	VAL

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Mol	Chain	Res	Type
2	M	3	VAL
3	W	200	PRO
3	W	246	SER
3	W	301	VAL
3	W	901	PRO
1	A	502	VAL
1	A	606	VAL
1	B	415	PRO
2	E	78	VAL
2	I	78	VAL
2	I	101	VAL
2	L	78	VAL
2	N	78	VAL
3	W	798	ILE
1	A	405	ILE
1	A	699	ILE
1	B	128	PRO
1	B	370	ILE
1	B	405	ILE
1	B	413	VAL
2	C	78	VAL
2	F	78	VAL
2	H	78	VAL
2	J	78	VAL
2	K	78	VAL
2	M	78	VAL
2	M	101	VAL
2	N	101	VAL
2	O	51	ILE
2	O	78	VAL
2	O	101	VAL
3	W	446	PRO
1	A	500	GLY
1	B	435	ILE
1	B	606	VAL
2	C	67	GLY
2	D	78	VAL
2	G	78	VAL
1	A	787	VAL
1	B	246	HIS
1	B	544	VAL

4.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	715/809 (88%)	603 (84%)	112 (16%)	2	15
1	B	744/809 (92%)	635 (85%)	109 (15%)	3	16
2	C	350/350 (100%)	325 (93%)	25 (7%)	14	41
2	D	350/350 (100%)	322 (92%)	28 (8%)	12	37
2	E	350/350 (100%)	325 (93%)	25 (7%)	14	41
2	F	350/350 (100%)	327 (93%)	23 (7%)	16	43
2	G	350/350 (100%)	327 (93%)	23 (7%)	16	43
2	H	350/350 (100%)	329 (94%)	21 (6%)	19	46
2	I	350/350 (100%)	327 (93%)	23 (7%)	16	43
2	J	350/350 (100%)	327 (93%)	23 (7%)	16	43
2	K	350/350 (100%)	327 (93%)	23 (7%)	16	43
2	L	350/350 (100%)	321 (92%)	29 (8%)	11	36
2	M	350/350 (100%)	325 (93%)	25 (7%)	14	41
2	N	350/350 (100%)	324 (93%)	26 (7%)	13	40
2	O	350/350 (100%)	329 (94%)	21 (6%)	19	46
3	W	885/990 (89%)	828 (94%)	57 (6%)	17	44
All	All	6894/7158 (96%)	6301 (91%)	593 (9%)	10	35

All (593) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	100	PRO
1	A	122	LEU
1	A	125	ILE
1	A	126	PHE
1	A	142	LEU
1	A	147	TYR
1	A	154	THR
1	A	157	ASP

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Mol	Chain	Res	Type
1	A	169	LEU
1	A	180	TYR
1	A	193	SER
1	A	204	THR
1	A	215	GLU
1	A	216	GLU
1	A	229	ARG
1	A	230	GLN
1	A	239	VAL
1	A	247	PRO
1	A	259	HIS
1	A	271	PHE
1	A	273	TYR
1	A	278	ILE
1	A	280	ASN
1	A	286	LEU
1	A	288	MET
1	A	295	THR
1	A	298	TYR
1	A	303	LEU
1	A	305	GLN
1	A	310	LEU
1	A	311	HIS
1	A	316	SER
1	A	318	TRP
1	A	342	THR
1	A	347	GLN
1	A	348	LYS
1	A	354	GLN
1	A	366	PHE
1	A	371	ASN
1	A	382	LEU
1	A	389	GLN
1	A	391	THR
1	A	392	MET
1	A	395	ASP
1	A	401	TYR
1	A	414	VAL
1	A	419	PHE
1	A	423	SER
1	A	424	LEU
1	A	428	GLN

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Mol	Chain	Res	Type
1	A	436	ILE
1	A	443	GLN
1	A	445	MET
1	A	447	TYR
1	A	449	ASN
1	A	471	TRP
1	A	473	HIS
1	A	480	PHE
1	A	495	ASP
1	A	505	GLN
1	A	515	ARG
1	A	516	GLN
1	A	520	THR
1	A	521	MET
1	A	525	TYR
1	A	534	LEU
1	A	540	LEU
1	A	563	MET
1	A	564	ASN
1	A	565	MET
1	A	571	LEU
1	A	587	LEU
1	A	594	ILE
1	A	600	LEU
1	A	601	PHE
1	A	616	GLU
1	A	634	TYR
1	A	638	MET
1	A	641	ILE
1	A	646	LEU
1	A	676	VAL
1	A	680	ASP
1	A	701	GLN
1	A	704	ILE
1	A	707	TYR
1	A	717	MET
1	A	718	TYR
1	A	720	TYR
1	A	723	ILE
1	A	726	ASN
1	A	730	PHE
1	A	743	ASP

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Mol	Chain	Res	Type
1	A	744	TYR
1	A	747	ILE
1	A	753	ASN
1	A	759	LEU
1	A	765	PHE
1	A	771	VAL
1	A	775	ILE
1	A	782	VAL
1	A	793	ASP
1	A	798	ILE
1	A	799	LEU
1	A	802	ILE
1	A	816	ASP
1	A	829	VAL
1	A	837	ASN
1	A	839	MET
1	A	848	PHE
1	A	849	THR
1	A	861	ASP
1	A	872	ASP
1	B	74	GLU
1	B	126	PHE
1	B	134	TYR
1	B	135	ARG
1	B	153	ASP
1	B	157	ASP
1	B	169	LEU
1	B	180	TYR
1	B	182	LEU
1	B	190	ASN
1	B	194	ARG
1	B	201	ASP
1	B	204	THR
1	B	215	GLU
1	B	217	THR
1	B	239	VAL
1	B	271	PHE
1	B	286	LEU
1	B	287	ASN
1	B	298	TYR
1	B	310	LEU
1	B	311	HIS

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Mol	Chain	Res	Type
1	B	312	ASP
1	B	314	PHE
1	B	316	SER
1	B	318	TRP
1	B	336	LEU
1	B	347	GLN
1	B	348	LYS
1	B	352	ASP
1	B	353	LEU
1	B	358	LEU
1	B	382	LEU
1	B	389	GLN
1	B	392	MET
1	B	396	PHE
1	B	397	VAL
1	B	401	TYR
1	B	424	LEU
1	B	428	GLN
1	B	436	ILE
1	B	451	ASP
1	B	453	GLN
1	B	457	GLN
1	B	471	TRP
1	B	476	ASN
1	B	494	ASN
1	B	495	ASP
1	B	497	ILE
1	B	498	ARG
1	B	499	ASN
1	B	505	GLN
1	B	518	PHE
1	B	521	MET
1	B	525	TYR
1	B	534	LEU
1	B	540	LEU
1	B	542	GLN
1	B	560	CYS
1	B	562	THR
1	B	590	ASN
1	B	600	LEU
1	B	601	PHE
1	B	616	GLU

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Mol	Chain	Res	Type
1	B	634	TYR
1	B	638	MET
1	B	641	ILE
1	B	646	LEU
1	B	652	PHE
1	B	660	ASP
1	B	674	VAL
1	B	676	VAL
1	B	680	ASP
1	B	697	ASP
1	B	707	TYR
1	B	709	ASP
1	B	710	MET
1	B	725	ARG
1	B	727	LEU
1	B	728	ASP
1	B	730	PHE
1	B	734	ASN
1	B	744	TYR
1	B	747	ILE
1	B	759	LEU
1	B	765	PHE
1	B	771	VAL
1	B	774	LEU
1	B	782	VAL
1	B	783	PHE
1	B	786	ILE
1	B	789	LEU
1	B	790	ARG
1	B	791	LYS
1	B	798	ILE
1	B	799	LEU
1	B	808	ASP
1	B	810	TYR
1	B	812	VAL
1	B	818	VAL
1	B	823	THR
1	B	832	GLN
1	B	836	ARG
1	B	839	MET
1	B	841	MET
1	B	857	PHE

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Mol	Chain	Res	Type
1	B	871	PHE
1	B	872	ASP
1	B	876	ILE
2	C	1	MET
2	C	2	ASP
2	C	13	ASP
2	C	22	THR
2	C	26	ASN
2	C	59	TRP
2	C	68	THR
2	C	106	ARG
2	C	128	ASN
2	C	129	PHE
2	C	142	GLN
2	C	147	ARG
2	C	150	PHE
2	C	152	PHE
2	C	170	GLN
2	C	214	LEU
2	C	225	LEU
2	C	255	ARG
2	C	274	GLN
2	C	284	ASN
2	C	370	LEU
2	C	374	TYR
2	C	378	ARG
2	C	382	LEU
2	C	385	VAL
2	D	1	MET
2	D	2	ASP
2	D	13	ASP
2	D	19	VAL
2	D	68	THR
2	D	70	LEU
2	D	73	LEU
2	D	103	GLU
2	D	106	ARG
2	D	109	ILE
2	D	117	ARG
2	D	129	PHE
2	D	142	GLN
2	D	143	ASN

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Mol	Chain	Res	Type
2	D	147	ARG
2	D	150	PHE
2	D	152	PHE
2	D	170	GLN
2	D	214	LEU
2	D	225	LEU
2	D	255	ARG
2	D	274	GLN
2	D	284	ASN
2	D	370	LEU
2	D	374	TYR
2	D	378	ARG
2	D	382	LEU
2	D	385	VAL
2	E	1	MET
2	E	2	ASP
2	E	13	ASP
2	E	26	ASN
2	E	59	TRP
2	E	69	THR
2	E	103	GLU
2	E	109	ILE
2	E	128	ASN
2	E	129	PHE
2	E	142	GLN
2	E	148	THR
2	E	150	PHE
2	E	152	PHE
2	E	170	GLN
2	E	214	LEU
2	E	225	LEU
2	E	255	ARG
2	E	274	GLN
2	E	284	ASN
2	E	370	LEU
2	E	374	TYR
2	E	378	ARG
2	E	382	LEU
2	E	385	VAL
2	F	2	ASP
2	F	13	ASP
2	F	60	ASN

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Mol	Chain	Res	Type
2	F	61	PHE
2	F	105	GLN
2	F	109	ILE
2	F	128	ASN
2	F	129	PHE
2	F	142	GLN
2	F	148	THR
2	F	150	PHE
2	F	152	PHE
2	F	170	GLN
2	F	214	LEU
2	F	225	LEU
2	F	255	ARG
2	F	274	GLN
2	F	284	ASN
2	F	370	LEU
2	F	374	TYR
2	F	378	ARG
2	F	382	LEU
2	F	385	VAL
2	G	2	ASP
2	G	13	ASP
2	G	26	ASN
2	G	63	PHE
2	G	106	ARG
2	G	109	ILE
2	G	117	ARG
2	G	129	PHE
2	G	142	GLN
2	G	143	ASN
2	G	145	ARG
2	G	152	PHE
2	G	170	GLN
2	G	214	LEU
2	G	225	LEU
2	G	255	ARG
2	G	274	GLN
2	G	284	ASN
2	G	370	LEU
2	G	374	TYR
2	G	378	ARG
2	G	382	LEU

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Mol	Chain	Res	Type
2	G	385	VAL
2	H	1	MET
2	H	2	ASP
2	H	13	ASP
2	H	103	GLU
2	H	106	ARG
2	H	128	ASN
2	H	129	PHE
2	H	142	GLN
2	H	150	PHE
2	H	152	PHE
2	H	170	GLN
2	H	214	LEU
2	H	225	LEU
2	H	255	ARG
2	H	274	GLN
2	H	284	ASN
2	H	370	LEU
2	H	374	TYR
2	H	378	ARG
2	H	382	LEU
2	H	385	VAL
2	I	1	MET
2	I	2	ASP
2	I	13	ASP
2	I	48	THR
2	I	61	PHE
2	I	106	ARG
2	I	109	ILE
2	I	117	ARG
2	I	129	PHE
2	I	142	GLN
2	I	150	PHE
2	I	152	PHE
2	I	170	GLN
2	I	214	LEU
2	I	225	LEU
2	I	255	ARG
2	I	274	GLN
2	I	284	ASN
2	I	370	LEU
2	I	374	TYR

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Mol	Chain	Res	Type
2	I	378	ARG
2	I	382	LEU
2	I	385	VAL
2	J	1	MET
2	J	2	ASP
2	J	13	ASP
2	J	19	VAL
2	J	59	TRP
2	J	106	ARG
2	J	109	ILE
2	J	128	ASN
2	J	129	PHE
2	J	142	GLN
2	J	150	PHE
2	J	152	PHE
2	J	170	GLN
2	J	214	LEU
2	J	225	LEU
2	J	255	ARG
2	J	274	GLN
2	J	284	ASN
2	J	370	LEU
2	J	374	TYR
2	J	378	ARG
2	J	382	LEU
2	J	385	VAL
2	K	1	MET
2	K	2	ASP
2	K	13	ASP
2	K	59	TRP
2	K	62	ASP
2	K	106	ARG
2	K	109	ILE
2	K	129	PHE
2	K	142	GLN
2	K	143	ASN
2	K	150	PHE
2	K	152	PHE
2	K	170	GLN
2	K	214	LEU
2	K	225	LEU
2	K	255	ARG

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Mol	Chain	Res	Type
2	K	274	GLN
2	K	284	ASN
2	K	370	LEU
2	K	374	TYR
2	K	378	ARG
2	K	382	LEU
2	K	385	VAL
2	L	1	MET
2	L	2	ASP
2	L	13	ASP
2	L	19	VAL
2	L	22	THR
2	L	25	SER
2	L	59	TRP
2	L	62	ASP
2	L	72	ASN
2	L	103	GLU
2	L	106	ARG
2	L	109	ILE
2	L	125	LYS
2	L	129	PHE
2	L	142	GLN
2	L	143	ASN
2	L	150	PHE
2	L	152	PHE
2	L	170	GLN
2	L	214	LEU
2	L	225	LEU
2	L	255	ARG
2	L	274	GLN
2	L	284	ASN
2	L	370	LEU
2	L	374	TYR
2	L	378	ARG
2	L	382	LEU
2	L	385	VAL
2	M	1	MET
2	M	2	ASP
2	M	13	ASP
2	M	22	THR
2	M	59	TRP
2	M	71	LEU

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Mol	Chain	Res	Type
2	M	103	GLU
2	M	106	ARG
2	M	117	ARG
2	M	125	LYS
2	M	129	PHE
2	M	142	GLN
2	M	150	PHE
2	M	152	PHE
2	M	170	GLN
2	M	214	LEU
2	M	225	LEU
2	M	255	ARG
2	M	274	GLN
2	M	284	ASN
2	M	370	LEU
2	M	374	TYR
2	M	378	ARG
2	M	382	LEU
2	M	385	VAL
2	N	1	MET
2	N	2	ASP
2	N	13	ASP
2	N	58	ASN
2	N	60	ASN
2	N	66	LEU
2	N	73	LEU
2	N	103	GLU
2	N	106	ARG
2	N	109	ILE
2	N	129	PHE
2	N	142	GLN
2	N	145	ARG
2	N	150	PHE
2	N	152	PHE
2	N	170	GLN
2	N	214	LEU
2	N	225	LEU
2	N	255	ARG
2	N	274	GLN
2	N	284	ASN
2	N	370	LEU
2	N	374	TYR

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Mol	Chain	Res	Type
2	N	378	ARG
2	N	382	LEU
2	N	385	VAL
2	O	2	ASP
2	O	13	ASP
2	O	23	LEU
2	O	25	SER
2	O	106	ARG
2	O	107	ASN
2	O	109	ILE
2	O	129	PHE
2	O	142	GLN
2	O	150	PHE
2	O	170	GLN
2	O	214	LEU
2	O	225	LEU
2	O	255	ARG
2	O	274	GLN
2	O	284	ASN
2	O	370	LEU
2	O	374	TYR
2	O	378	ARG
2	O	382	LEU
2	O	385	VAL
3	W	48	ASN
3	W	70	THR
3	W	79	TYR
3	W	121	THR
3	W	130	MET
3	W	143	ASN
3	W	150	GLU
3	W	155	ASP
3	W	166	ARG
3	W	178	ASN
3	W	186	ASN
3	W	195	VAL
3	W	198	ASP
3	W	246	SER
3	W	283	GLN
3	W	290	GLN
3	W	305	LYS
3	W	311	LEU

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Mol	Chain	Res	Type
3	W	320	PRO
3	W	341	ASP
3	W	394	LEU
3	W	404	GLU
3	W	408	LEU
3	W	426	ASP
3	W	430	ASN
3	W	439	PRO
3	W	451	ARG
3	W	499	GLN
3	W	503	TYR
3	W	518	TYR
3	W	619	HIS
3	W	623	THR
3	W	628	VAL
3	W	629	ASP
3	W	663	ASN
3	W	690	ARG
3	W	709	GLN
3	W	717	TYR
3	W	721	ARG
3	W	723	ARG
3	W	734	THR
3	W	750	LEU
3	W	758	THR
3	W	782	VAL
3	W	808	PHE
3	W	820	LEU
3	W	835	GLU
3	W	886	THR
3	W	892	LEU
3	W	906	ASN
3	W	932	ARG
3	W	939	VAL
3	W	1003	CYS
3	W	1050	SER
3	W	1068	LYS
3	W	1078	SER
3	W	1084	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (253) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	119	GLN
1	A	137	ASN
1	A	168	ASN
1	A	230	GLN
1	A	246	HIS
1	A	260	GLN
1	A	309	ASN
1	A	365	GLN
1	A	428	GLN
1	A	443	GLN
1	A	453	GLN
1	A	462	GLN
1	A	473	HIS
1	A	490	ASN
1	A	496	ASN
1	A	553	ASN
1	A	605	ASN
1	A	609	ASN
1	A	613	ASN
1	A	615	ASN
1	A	661	GLN
1	A	683	ASN
1	A	701	GLN
1	A	722	ASN
1	A	726	ASN
1	A	803	ASN
1	A	807	ASN
1	A	840	HIS
1	A	873	ASN
1	B	119	GLN
1	B	168	ASN
1	B	190	ASN
1	B	230	GLN
1	B	237	ASN
1	B	240	ASN
1	B	246	HIS
1	B	287	ASN
1	B	302	ASN
1	B	305	GLN
1	B	311	HIS
1	B	347	GLN
1	B	361	GLN
1	B	371	ASN

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Mol	Chain	Res	Type
1	B	449	ASN
1	B	465	ASN
1	B	473	HIS
1	B	476	ASN
1	B	477	ASN
1	B	491	GLN
1	B	517	GLN
1	B	553	ASN
1	B	564	ASN
1	B	590	ASN
1	B	602	HIS
1	B	605	ASN
1	B	609	ASN
1	B	611	HIS
1	B	615	ASN
1	B	629	ASN
1	B	635	GLN
1	B	683	ASN
1	B	746	GLN
1	B	807	ASN
1	B	814	ASN
1	B	831	GLN
1	B	840	HIS
1	B	878	ASN
2	C	26	ASN
2	C	35	ASN
2	C	53	ASN
2	C	72	ASN
2	C	128	ASN
2	C	131	ASN
2	C	143	ASN
2	C	146	GLN
2	C	167	ASN
2	C	239	ASN
2	C	274	GLN
2	C	284	ASN
2	C	345	ASN
2	D	26	ASN
2	D	128	ASN
2	D	131	ASN
2	D	142	GLN
2	D	146	GLN

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Mol	Chain	Res	Type
2	D	167	ASN
2	D	239	ASN
2	D	274	GLN
2	D	284	ASN
2	D	345	ASN
2	E	26	ASN
2	E	53	ASN
2	E	94	ASN
2	E	131	ASN
2	E	142	GLN
2	E	167	ASN
2	E	239	ASN
2	E	274	GLN
2	E	284	ASN
2	E	345	ASN
2	F	32	GLN
2	F	53	ASN
2	F	72	ASN
2	F	94	ASN
2	F	128	ASN
2	F	131	ASN
2	F	142	GLN
2	F	167	ASN
2	F	239	ASN
2	F	274	GLN
2	F	284	ASN
2	F	345	ASN
2	G	26	ASN
2	G	35	ASN
2	G	53	ASN
2	G	128	ASN
2	G	131	ASN
2	G	142	GLN
2	G	167	ASN
2	G	239	ASN
2	G	274	GLN
2	G	284	ASN
2	G	345	ASN
2	H	26	ASN
2	H	53	ASN
2	H	83	ASN
2	H	94	ASN

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Mol	Chain	Res	Type
2	H	107	ASN
2	H	128	ASN
2	H	131	ASN
2	H	142	GLN
2	H	167	ASN
2	H	239	ASN
2	H	274	GLN
2	H	284	ASN
2	H	345	ASN
2	I	32	GLN
2	I	53	ASN
2	I	76	ASN
2	I	94	ASN
2	I	128	ASN
2	I	131	ASN
2	I	143	ASN
2	I	146	GLN
2	I	167	ASN
2	I	239	ASN
2	I	274	GLN
2	I	284	ASN
2	I	345	ASN
2	J	26	ASN
2	J	53	ASN
2	J	94	ASN
2	J	128	ASN
2	J	131	ASN
2	J	142	GLN
2	J	146	GLN
2	J	167	ASN
2	J	239	ASN
2	J	274	GLN
2	J	284	ASN
2	J	345	ASN
2	K	26	ASN
2	K	53	ASN
2	K	72	ASN
2	K	94	ASN
2	K	131	ASN
2	K	143	ASN
2	K	167	ASN
2	K	239	ASN

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Mol	Chain	Res	Type
2	K	274	GLN
2	K	284	ASN
2	K	345	ASN
2	L	53	ASN
2	L	72	ASN
2	L	131	ASN
2	L	140	ASN
2	L	143	ASN
2	L	146	GLN
2	L	167	ASN
2	L	239	ASN
2	L	274	GLN
2	L	284	ASN
2	L	345	ASN
2	M	36	GLN
2	M	53	ASN
2	M	128	ASN
2	M	131	ASN
2	M	142	GLN
2	M	143	ASN
2	M	167	ASN
2	M	239	ASN
2	M	274	GLN
2	M	284	ASN
2	M	345	ASN
2	N	26	ASN
2	N	32	GLN
2	N	53	ASN
2	N	94	ASN
2	N	128	ASN
2	N	131	ASN
2	N	140	ASN
2	N	142	GLN
2	N	146	GLN
2	N	167	ASN
2	N	239	ASN
2	N	274	GLN
2	N	284	ASN
2	N	345	ASN
2	O	35	ASN
2	O	53	ASN
2	O	131	ASN

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Mol	Chain	Res	Type
2	O	140	ASN
2	O	142	GLN
2	O	143	ASN
2	O	153	HIS
2	O	167	ASN
2	O	239	ASN
2	O	274	GLN
2	O	284	ASN
2	O	345	ASN
3	W	31	ASN
3	W	36	ASN
3	W	42	HIS
3	W	48	ASN
3	W	68	ASN
3	W	143	ASN
3	W	185	HIS
3	W	186	ASN
3	W	283	GLN
3	W	290	GLN
3	W	308	GLN
3	W	423	HIS
3	W	473	GLN
3	W	499	GLN
3	W	565	GLN
3	W	585	GLN
3	W	604	ASN
3	W	653	ASN
3	W	703	GLN
3	W	706	GLN
3	W	760	ASN
3	W	794	GLN
3	W	810	ASN
3	W	818	GLN
3	W	824	ASN
3	W	853	GLN
3	W	862	GLN
3	W	906	ASN
3	W	956	ASN
3	W	1005	GLN
3	W	1010	ASN
3	W	1043	ASN
3	W	1048	ASN

4.3.3 RNA (i)

There are no RNA molecules in this entry.

4.4 Non-standard residues in protein, DNA, RNA chains (i)

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

4.5 Carbohydrates (i)

There are no monosaccharides in this entry.

4.6 Ligand geometry (i)

Of 5 ligands modelled in this entry, 5 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

4.7 Other polymers (i)

There are no such residues in this entry.

4.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

5 Fit of model and data (i)

5.1 Protein, DNA and RNA chains (i)

EDS failed to run properly - this section is therefore empty.

5.2 Non-standard residues in protein, DNA, RNA chains (i)

EDS failed to run properly - this section is therefore empty.

5.3 Carbohydrates (i)

EDS failed to run properly - this section is therefore empty.

5.4 Ligands (i)

EDS failed to run properly - this section is therefore empty.

5.5 Other polymers (i)

EDS failed to run properly - this section is therefore empty.