Full wwPDB X-ray Structure Validation Report ⓘ

Nov 23, 2023 – 12:52 AM JST

PDB ID	:	7Y17
Title	:	Crystal structure of ribosomal ITS2 pre-rRNA processing complex from Cyberlindnera jadinii
Authors	:	Chen, J.; Liu, L.
Deposited on	:	2022-06-07
Resolution	:	3.39 Å(reported)

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

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

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

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

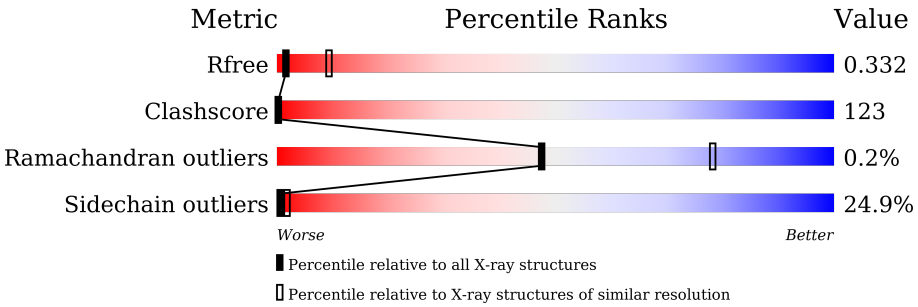
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.39 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1026 (3.48-3.32)
Clashscore	141614	1055 (3.48-3.32)
Ramachandran outliers	138981	1038 (3.48-3.32)
Sidechain outliers	138945	1038 (3.48-3.32)

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

Mol	Chain	Length	Quality of chain
1	A	610	23% 43% 19% 15%
1	B	610	20% 45% 17% • 17%
1	E	610	23% 45% 16% • 15%
2	C	421	27% 42% 12% 19%
2	D	421	24% 42% 10% 23%
2	F	421	29% 38% 13% 20%

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 19118 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 Polynucleotide 5'-hydroxyl-kinase GRC3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	506	Total	C	N	O	S	0	0	0
			3713	2387	619	695	12			
1	A	519	Total	C	N	O	S	0	0	0
			3817	2451	636	718	12			
1	E	519	Total	C	N	O	S	0	0	0
			3794	2429	633	720	12			

- Molecule 2 is a protein called LAS1 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	340	Total	C	N	O	S	0	0	0
			2551	1622	426	489	14			
2	D	325	Total	C	N	O	S	0	0	0
			2323	1478	397	436	12			
2	F	338	Total	C	N	O	S	0	0	0
			2534	1623	422	477	12			

- Molecule 3 is water.

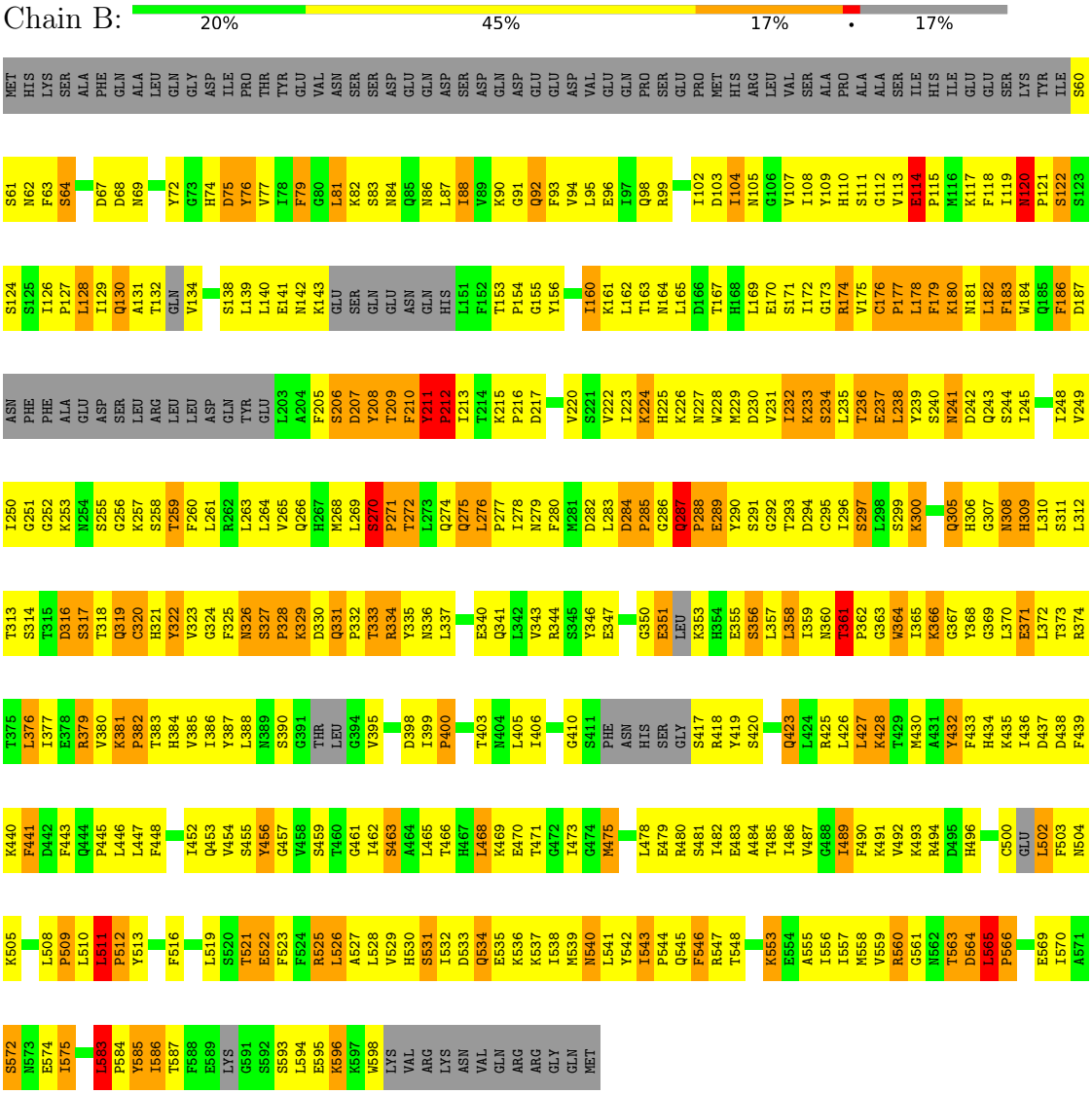
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	61	Total	O	0	0
			61	61		
3	C	46	Total	O	0	0
			46	46		
3	D	60	Total	O	0	0
			60	60		
3	A	94	Total	O	0	0
			94	94		
3	E	79	Total	O	0	0
			79	79		
3	F	46	Total	O	0	0
			46	46		

3 Residue-property plots (i)

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

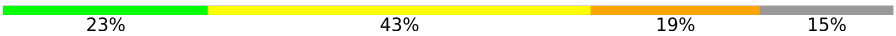
• Molecule 1: Polynucleotide 5'-hydroxyl-kinase GRC3

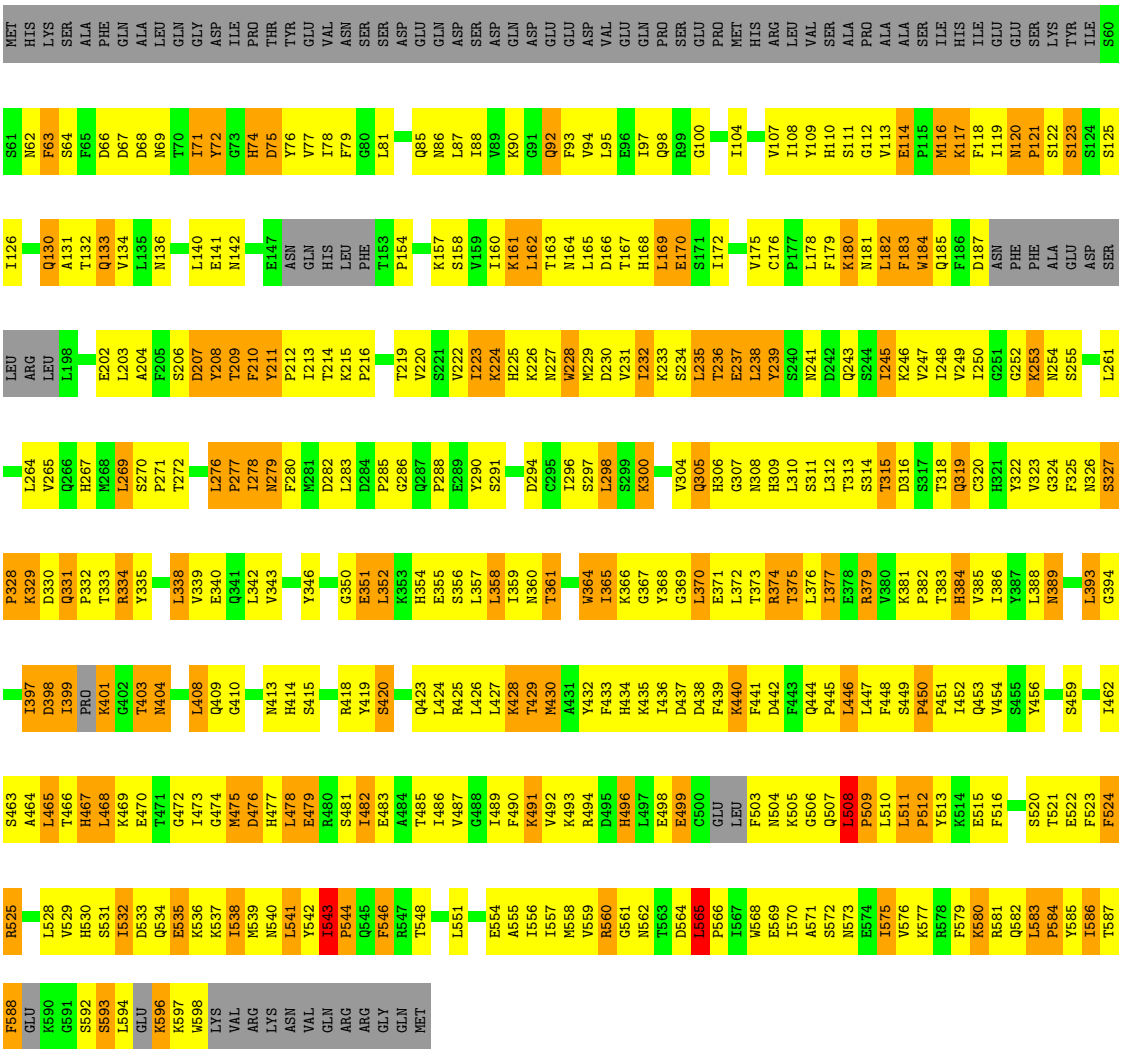
Chain B:



• Molecule 1: Polynucleotide 5'-hydroxyl-kinase GRC3

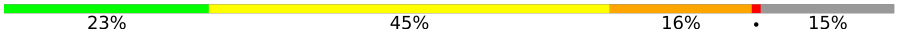
Chain A:

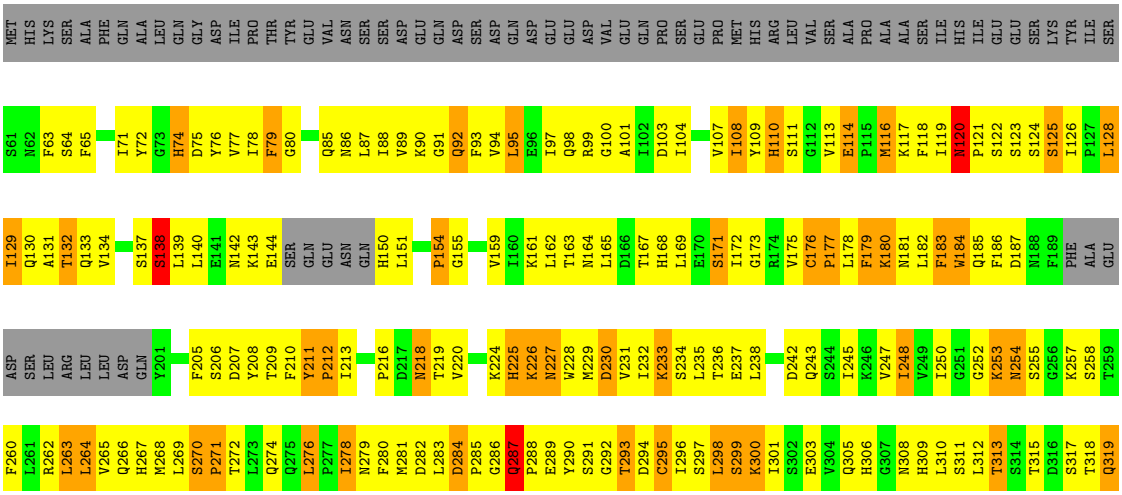


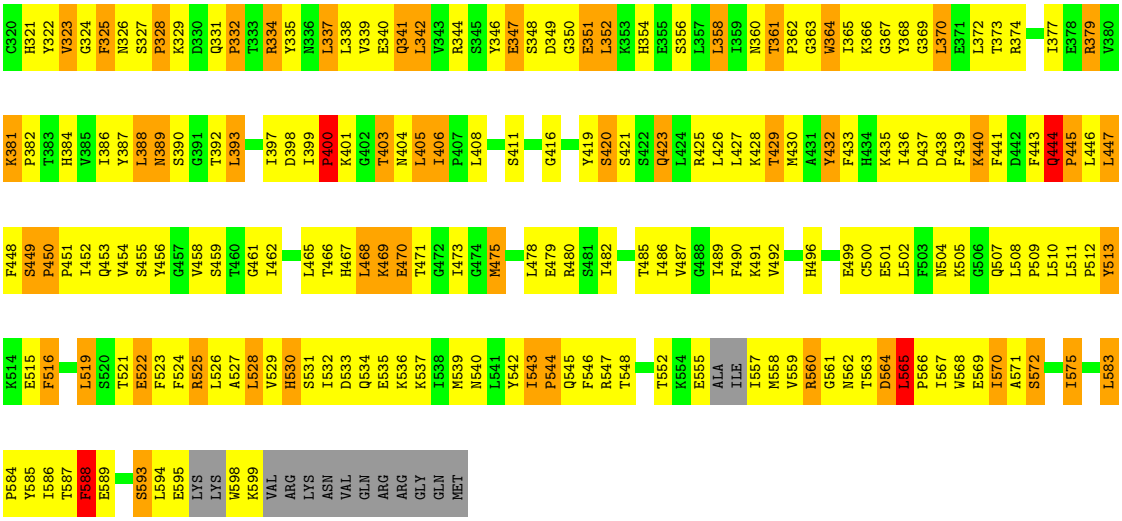


• Molecule 1: Polynucleotide 5'-hydroxyl-kinase GRC3

Chain E:

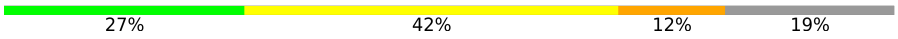


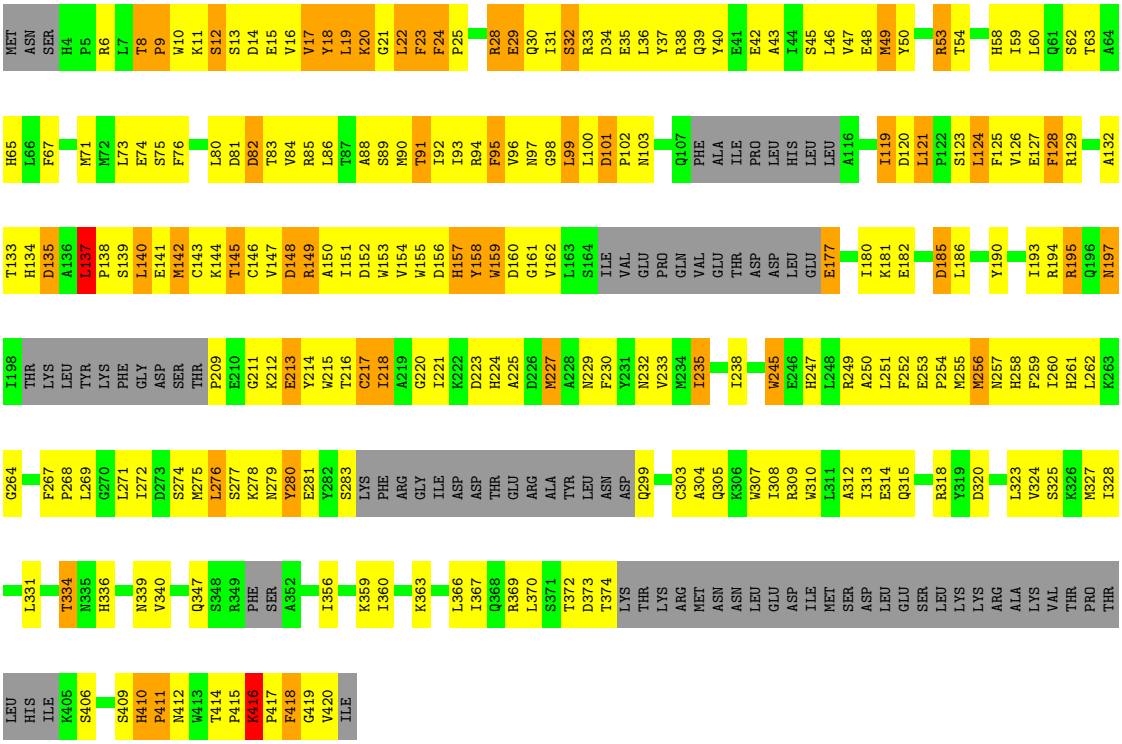




• Molecule 2: LAS1 protein

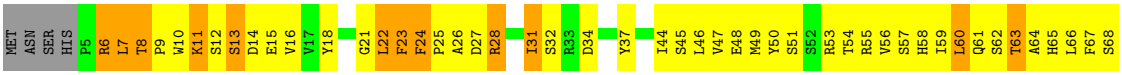
Chain C:

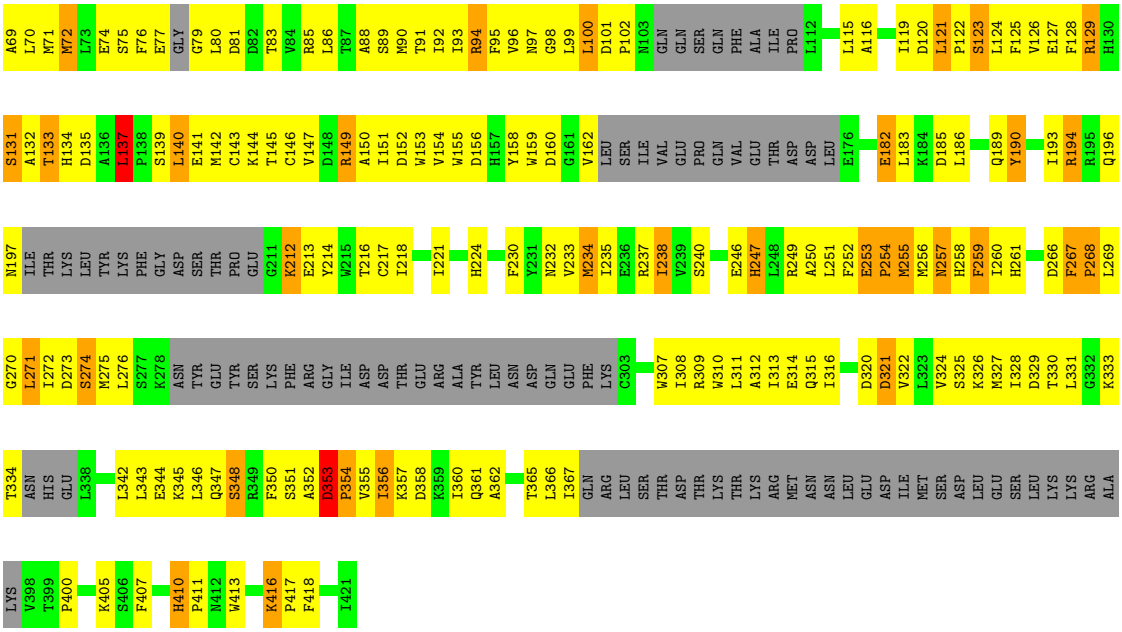




• Molecule 2: LAS1 protein

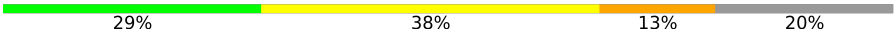
Chain D:

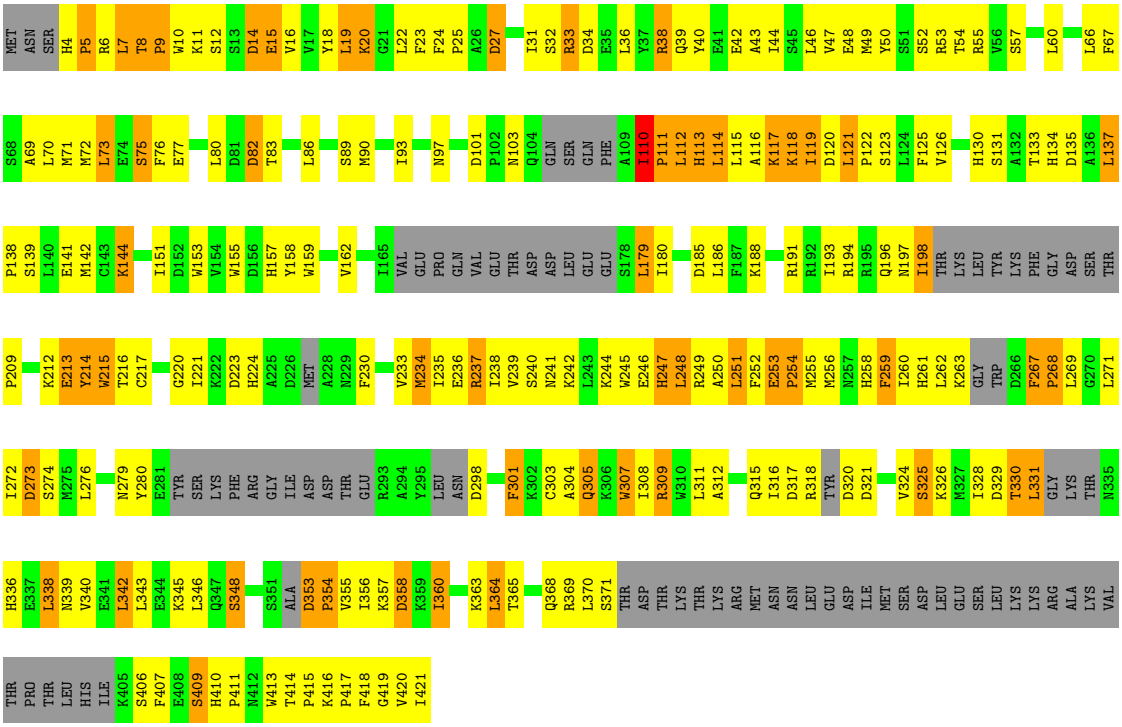




• Molecule 2: LAS1 protein

Chain F:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α, β, γ	152.62Å 240.02Å 237.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	21.41 – 3.39 46.80 – 3.39	Depositor EDS
% Data completeness (in resolution range)	68.3 (21.41-3.39) 68.5 (46.80-3.39)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.26 (at 3.40Å)	Xtriage
Refinement program	PHENIX 1.17.1_3660	Depositor
R, R_{free}	0.309 , 0.332 0.309 , 0.332	Depositor DCC
R_{free} test set	2105 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å^2)	71.4	Xtriage
Anisotropy	0.383	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.15 , 67.4	EDS
L-test for twinning[2]	$< \|L\| > = 0.34$, $< L^2 > = 0.17$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.68	EDS
Total number of atoms	19118	wwPDB-VP
Average B, all atoms (Å^2)	124.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.21% 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.

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.61	8/3894 (0.2%)	0.81	17/5301 (0.3%)
1	B	0.61	13/3787 (0.3%)	0.81	20/5155 (0.4%)
1	E	0.64	10/3872 (0.3%)	0.86	28/5281 (0.5%)
2	C	0.51	2/2601 (0.1%)	0.72	9/3540 (0.3%)
2	D	0.56	2/2365 (0.1%)	0.75	12/3228 (0.4%)
2	F	0.57	8/2577 (0.3%)	0.77	18/3501 (0.5%)
All	All	0.59	43/19096 (0.2%)	0.79	104/26006 (0.4%)

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	B	0	3
1	E	0	2
All	All	0	5

All (43) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	588	PHE	C-N	5.75	1.47	1.34
1	E	212	PRO	N-CD	5.60	1.55	1.47
1	A	512	PRO	N-CD	5.37	1.55	1.47
2	F	5	PRO	N-CD	5.36	1.55	1.47
1	B	288	PRO	N-CD	5.35	1.55	1.47
1	A	450	PRO	N-CD	5.33	1.55	1.47
1	A	544	PRO	N-CD	5.30	1.55	1.47
1	B	382	PRO	N-CD	5.29	1.55	1.47
1	B	177	PRO	N-CD	5.24	1.55	1.47
1	E	271	PRO	N-CD	5.22	1.55	1.47
1	E	450	PRO	N-CD	5.21	1.55	1.47
1	E	328	PRO	N-CD	5.19	1.55	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	332	PRO	N-CD	5.18	1.55	1.47
2	F	411	PRO	N-CD	5.18	1.55	1.47
1	B	328	PRO	N-CD	5.17	1.55	1.47
1	E	177	PRO	N-CD	5.16	1.55	1.47
1	B	271	PRO	N-CD	5.16	1.55	1.47
1	B	512	PRO	N-CD	5.16	1.55	1.47
2	C	411	PRO	N-CD	5.15	1.55	1.47
1	A	328	PRO	N-CD	5.14	1.55	1.47
1	A	509	PRO	N-CD	5.13	1.55	1.47
2	F	415	PRO	N-CD	5.12	1.55	1.47
1	B	285	PRO	N-CD	5.12	1.55	1.47
2	D	268	PRO	N-CD	5.11	1.55	1.47
2	F	111	PRO	N-CD	5.11	1.55	1.47
1	B	509	PRO	N-CD	5.11	1.55	1.47
1	E	445	PRO	N-CD	5.11	1.55	1.47
1	A	277	PRO	N-CD	5.08	1.54	1.47
1	B	115	PRO	N-CD	5.08	1.54	1.47
1	B	212	PRO	N-CD	5.08	1.54	1.47
1	B	154	PRO	N-CD	5.07	1.54	1.47
2	F	9	PRO	N-CD	5.07	1.54	1.47
2	F	25	PRO	N-CD	5.07	1.54	1.47
1	B	362	PRO	N-CD	5.07	1.54	1.47
2	F	254	PRO	N-CD	5.06	1.54	1.47
1	A	584	PRO	N-CD	5.05	1.54	1.47
1	B	566	PRO	N-CD	5.04	1.54	1.47
2	C	9	PRO	N-CD	5.04	1.54	1.47
2	D	254	PRO	N-CD	5.03	1.54	1.47
1	A	271	PRO	N-CD	5.03	1.54	1.47
2	F	268	PRO	N-CD	5.03	1.54	1.47
1	E	285	PRO	N-CD	5.03	1.54	1.47
1	E	544	PRO	N-CD	5.02	1.54	1.47

All (104) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	588	PHE	O-C-N	-11.22	104.75	122.70
2	F	354	PRO	CA-N-CD	-8.96	98.96	111.50
1	A	465	LEU	CB-CG-CD2	-7.66	97.97	111.00
1	E	588	PHE	CA-C-N	7.25	133.16	117.20
1	E	588	PHE	C-N-CA	6.56	138.10	121.70
1	E	120	ASN	C-N-CD	6.35	141.74	128.40
1	E	510	LEU	CA-CB-CG	6.26	129.69	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	450	PRO	C-N-CD	6.21	141.44	128.40
2	C	101	ASP	C-N-CD	6.20	141.41	128.40
1	A	478	LEU	CB-CG-CD2	6.18	121.50	111.00
1	A	361	THR	C-N-CD	6.13	141.27	128.40
1	B	120	ASN	C-N-CD	6.13	141.27	128.40
2	D	102	PRO	N-CA-CB	6.11	110.63	103.30
2	D	416	LYS	C-N-CD	6.08	141.17	128.40
1	B	376	LEU	CA-CB-CG	6.08	129.28	115.30
1	E	154	PRO	N-CA-CB	6.05	110.56	103.30
2	D	354	PRO	N-CA-CB	6.03	110.54	103.30
1	E	264	LEU	CA-CB-CG	5.98	129.05	115.30
2	F	416	LYS	C-N-CD	5.97	140.93	128.40
1	B	211	TYR	C-N-CD	5.95	140.89	128.40
1	B	543	ILE	C-N-CD	5.92	140.84	128.40
1	B	583	LEU	C-N-CD	5.92	140.84	128.40
2	C	137	LEU	C-N-CD	5.91	140.82	128.40
1	A	565	LEU	C-N-CD	5.91	140.80	128.40
2	C	121	LEU	C-N-CD	5.90	140.80	128.40
2	D	24	PHE	C-N-CD	5.89	140.78	128.40
1	A	381	LYS	C-N-CD	5.89	140.77	128.40
1	B	361	THR	C-N-CD	5.88	140.76	128.40
1	E	287	GLN	C-N-CD	5.88	140.75	128.40
1	E	381	LYS	C-N-CD	5.86	140.70	128.40
1	A	276	LEU	C-N-CD	5.85	140.69	128.40
1	E	583	LEU	C-N-CD	5.84	140.68	128.40
1	A	154	PRO	N-CA-CB	5.84	110.31	103.30
1	B	215	LYS	C-N-CD	5.84	140.66	128.40
1	B	270	SER	C-N-CD	5.84	140.66	128.40
2	D	137	LEU	C-N-CD	5.83	140.65	128.40
2	C	416	LYS	C-N-CD	5.83	140.64	128.40
1	E	450	PRO	C-N-CD	5.82	140.62	128.40
1	B	331	GLN	C-N-CD	5.81	140.60	128.40
2	F	121	LEU	C-N-CD	5.81	140.60	128.40
1	B	565	LEU	C-N-CD	5.80	140.59	128.40
1	E	126	ILE	C-N-CD	5.80	140.58	128.40
1	E	565	LEU	C-N-CD	5.80	140.57	128.40
2	D	253	GLU	C-N-CD	5.79	140.57	128.40
1	A	270	SER	C-N-CD	5.79	140.56	128.40
2	C	253	GLU	C-N-CD	5.79	140.56	128.40
1	E	276	LEU	C-N-CD	5.79	140.55	128.40
2	F	110	ILE	C-N-CD	5.79	140.55	128.40
2	F	253	GLU	C-N-CD	5.78	140.54	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	414	THR	C-N-CD	5.76	140.50	128.40
1	A	331	GLN	C-N-CD	5.74	140.46	128.40
2	F	267	PHE	C-N-CD	5.74	140.45	128.40
1	E	284	ASP	C-N-CD	5.74	140.45	128.40
1	E	543	ILE	C-N-CD	5.74	140.44	128.40
1	E	444	GLN	C-N-CD	5.73	140.44	128.40
1	B	511	LEU	C-N-CD	5.73	140.43	128.40
2	D	8	THR	C-N-CD	5.73	140.43	128.40
2	C	8	THR	C-N-CD	5.72	140.42	128.40
1	A	508	LEU	C-N-CD	5.72	140.42	128.40
1	E	114	GLU	C-N-CD	5.72	140.42	128.40
1	E	176	CYS	C-N-CD	5.72	140.40	128.40
1	A	583	LEU	C-N-CD	5.71	140.39	128.40
2	F	209	PRO	N-CA-CB	5.71	110.16	103.30
1	B	287	GLN	C-N-CD	5.70	140.37	128.40
2	F	410	HIS	C-N-CD	5.69	140.35	128.40
1	A	114	GLU	C-N-CD	5.68	140.34	128.40
1	E	331	GLN	C-N-CD	5.68	140.34	128.40
1	B	284	ASP	C-N-CD	5.68	140.33	128.40
2	F	8	THR	C-N-CD	5.68	140.32	128.40
2	C	410	HIS	C-N-CD	5.67	140.31	128.40
1	B	114	GLU	C-N-CD	5.67	140.31	128.40
1	A	543	ILE	C-N-CD	5.67	140.31	128.40
1	A	327	SER	C-N-CD	5.67	140.30	128.40
2	D	267	PHE	C-N-CD	5.66	140.29	128.40
1	E	400	PRO	N-CA-CB	5.63	110.06	103.30
1	B	381	LYS	C-N-CD	5.63	140.22	128.40
1	B	153	THR	C-N-CD	5.61	140.18	128.40
1	B	176	CYS	C-N-CD	5.61	140.18	128.40
1	E	327	SER	C-N-CD	5.60	140.15	128.40
1	E	449	SER	C-N-CD	5.58	140.13	128.40
1	E	270	SER	C-N-CD	5.57	140.10	128.40
2	F	112	LEU	CA-CB-CG	5.57	128.10	115.30
1	B	327	SER	C-N-CD	5.55	140.06	128.40
2	D	400	PRO	N-CA-CB	5.54	109.95	103.30
1	A	121	PRO	N-CA-CB	5.54	109.95	103.30
2	F	4	HIS	C-N-CD	5.53	140.00	128.40
1	E	295	CYS	CA-CB-SG	5.51	123.92	114.00
1	A	449	SER	C-N-CD	5.44	139.82	128.40
1	E	388	LEU	CA-CB-CG	5.43	127.79	115.30
1	E	264	LEU	CB-CG-CD1	-5.41	101.80	111.00
1	B	295	CYS	CA-CB-SG	5.34	123.61	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	400	PRO	N-CA-CB	5.32	109.69	103.30
2	F	185	ASP	CB-CG-OD2	5.25	123.02	118.30
2	F	353	ASP	CB-CG-OD2	5.24	123.01	118.30
2	D	185	ASP	CB-CG-OD2	5.22	123.00	118.30
2	D	321	ASP	CB-CG-OD2	5.21	122.99	118.30
2	F	317	ASP	CB-CG-OD2	5.21	122.99	118.30
2	D	329	ASP	CB-CG-OD2	5.19	122.97	118.30
2	F	298	ASP	CB-CG-OD2	5.19	122.97	118.30
2	F	60	LEU	CA-CB-CG	5.18	127.23	115.30
2	C	185	ASP	CB-CG-OD2	5.17	122.95	118.30
2	C	223	ASP	CB-CG-OD2	5.16	122.94	118.30
2	F	273	ASP	CB-CG-OD2	5.15	122.94	118.30
1	E	211	TYR	C-N-CD	5.12	139.16	128.40

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	292	GLY	Peptide
1	B	297	SER	Peptide
1	B	371	GLU	Sidechain
1	E	138	SER	Peptide
1	E	588	PHE	Mainchain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	3817	0	3551	1084	0
1	B	3713	0	3465	944	1
1	E	3794	0	3501	967	3
2	C	2551	0	2321	572	1
2	D	2323	0	2023	514	0
2	F	2534	0	2341	577	3
3	A	94	0	0	14	0
3	B	61	0	0	26	0
3	C	46	0	0	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	D	60	0	0	9	0
3	E	79	0	0	24	0
3	F	46	0	0	9	0
All	All	19118	0	17202	4426	4

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 123.

All (4426) 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:454:VAL:HG11	2:D:407:PHE:CE1	1.23	1.73
1:A:63:PHE:CE2	1:A:214:THR:HA	1.26	1.69
2:F:252:PHE:HD1	2:F:307:TRP:CZ2	1.09	1.66
2:F:252:PHE:CD1	2:F:307:TRP:CH2	1.75	1.66
2:F:24:PHE:HD1	2:F:155:TRP:CE3	1.14	1.64
2:F:331:LEU:CG	2:F:343:LEU:HD21	1.20	1.63
2:F:110:ILE:HD11	2:F:115:LEU:CD1	1.26	1.62
1:E:588:PHE:CA	2:F:5:PRO:HB3	1.15	1.62
2:C:258:HIS:CD2	2:C:262:LEU:HD11	1.29	1.61
2:F:238:ILE:HG21	2:F:307:TRP:CZ3	1.26	1.61
2:C:11:LYS:HB2	1:A:585:TYR:CE2	1.11	1.61
2:C:258:HIS:CD2	2:C:262:LEU:CD1	1.82	1.60
1:A:169:LEU:CD2	1:A:441:PHE:CD1	1.86	1.59
1:B:250:ILE:CD1	1:B:373:THR:HG21	1.22	1.59
1:B:62:ASN:CB	1:B:216:PRO:HG3	1.26	1.58
2:F:24:PHE:CD1	2:F:155:TRP:CE3	1.91	1.57
1:B:118:PHE:CE1	1:B:306:HIS:HB3	1.05	1.57
1:A:579:PHE:CD2	1:A:581:ARG:CB	1.87	1.57
1:E:370:LEU:CG	1:E:397:ILE:HD11	1.32	1.57
1:A:63:PHE:HE2	1:A:214:THR:CA	1.18	1.56
1:B:468:LEU:CD1	1:B:561:GLY:HA2	1.28	1.55
1:A:583:LEU:CB	1:A:586:ILE:HG13	1.14	1.55
1:E:125:SER:HA	1:E:220:VAL:CB	1.27	1.55
2:D:259:PHE:CE1	2:D:268:PRO:HB3	1.40	1.55
2:F:20:LYS:HA	2:F:159:TRP:CZ3	1.41	1.54
1:B:118:PHE:CE1	1:B:306:HIS:CB	1.88	1.54
1:A:583:LEU:CB	1:A:586:ILE:CG1	1.82	1.54
1:E:232:ILE:HD11	1:E:264:LEU:CB	1.38	1.54
2:C:11:LYS:CB	1:A:585:TYR:HE2	0.95	1.53
1:B:63:PHE:CB	1:B:88:ILE:HG12	1.35	1.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:249:ARG:CB	2:C:307:TRP:CH2	1.93	1.51
2:D:24:PHE:HE2	2:D:155:TRP:CD1	1.27	1.51
2:F:24:PHE:CD1	2:F:155:TRP:HE3	1.23	1.51
1:B:250:ILE:HD11	1:B:373:THR:CG2	1.38	1.51
1:A:325:PHE:CG	1:A:330:ASP:CB	1.94	1.50
2:F:238:ILE:HG21	2:F:307:TRP:CH2	1.37	1.50
2:D:24:PHE:CE2	2:D:155:TRP:CD1	2.00	1.49
2:D:331:LEU:HD23	2:D:346:LEU:CD1	1.38	1.49
1:B:118:PHE:CD1	1:B:306:HIS:HB3	1.46	1.48
1:B:490:PHE:HB2	1:B:557:ILE:CG2	1.41	1.48
1:A:325:PHE:CD1	1:A:330:ASP:CB	1.95	1.48
2:C:235:ILE:CD1	2:C:278:LYS:HE2	1.39	1.47
1:E:299:SER:HB3	1:E:317:SER:CB	1.03	1.47
1:E:100:GLY:H	1:E:142:ASN:ND2	1.12	1.47
1:A:63:PHE:CZ	1:A:212:PRO:HB2	1.48	1.47
1:B:63:PHE:CB	1:B:88:ILE:CG1	1.91	1.47
1:E:99:ARG:HA	1:E:142:ASN:CG	1.27	1.47
1:E:370:LEU:HD11	1:E:397:ILE:CD1	1.45	1.47
1:B:63:PHE:CB	1:B:88:ILE:CD1	1.91	1.46
1:E:299:SER:CB	1:E:317:SER:CB	1.94	1.46
1:B:103:ASP:CB	1:B:108:ILE:HG12	1.45	1.46
1:E:588:PHE:HA	2:F:5:PRO:CB	1.42	1.46
1:A:232:ILE:CD1	1:A:264:LEU:HB2	1.42	1.45
1:A:466:THR:HB	1:A:511:LEU:CD2	1.43	1.45
1:E:370:LEU:HD21	1:E:397:ILE:CD1	1.46	1.45
1:A:172:ILE:CG2	1:A:179:PHE:HB3	1.43	1.45
1:E:370:LEU:CD1	1:E:397:ILE:HD11	1.45	1.44
1:B:455:SER:HB3	2:D:405:LYS:CB	1.45	1.44
2:F:331:LEU:CD2	2:F:343:LEU:HD21	1.43	1.44
1:A:172:ILE:HG21	1:A:179:PHE:CB	1.47	1.43
2:D:62:SER:O	2:D:66:LEU:CD1	1.67	1.43
1:E:184:TRP:CE3	1:E:211:TYR:HB2	1.54	1.43
1:E:232:ILE:CD1	1:E:264:LEU:CB	1.97	1.43
1:B:490:PHE:CB	1:B:557:ILE:CG2	1.94	1.42
1:B:250:ILE:CD1	1:B:373:THR:CG2	1.93	1.42
1:A:172:ILE:CG2	1:A:179:PHE:CB	1.95	1.42
1:A:232:ILE:HD11	1:A:264:LEU:CB	1.45	1.42
1:A:117:LYS:HD3	1:A:439:PHE:CE2	1.55	1.42
1:E:100:GLY:N	1:E:142:ASN:HD21	1.07	1.42
2:C:258:HIS:NE2	2:C:262:LEU:HD11	1.21	1.41
1:B:279:ASN:CG	1:B:300:LYS:HZ1	1.22	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:331:LEU:HG	2:F:343:LEU:CD2	1.51	1.41
1:B:454:VAL:CG1	2:D:407:PHE:CD1	2.04	1.41
1:E:370:LEU:HD11	1:E:397:ILE:CG1	1.48	1.41
2:F:110:ILE:CD1	2:F:115:LEU:HD11	1.47	1.41
2:C:249:ARG:CB	2:C:307:TRP:CZ2	2.02	1.40
2:D:183:LEU:CD2	2:D:224:HIS:HB3	1.47	1.40
2:C:235:ILE:CD1	2:C:278:LYS:CE	1.98	1.40
1:E:232:ILE:CD1	1:E:264:LEU:HD23	1.51	1.39
1:B:111:SER:OG	1:B:142:ASN:CA	1.68	1.39
2:C:65:HIS:ND1	2:C:94:ARG:NH2	1.69	1.39
1:A:72:TYR:HE2	1:A:206:SER:CB	1.35	1.39
2:D:276:LEU:HD22	2:D:333:LYS:CB	1.52	1.38
1:E:184:TRP:CZ3	1:E:211:TYR:CB	2.06	1.38
1:A:350:GLY:CA	1:A:357:LEU:HD11	1.50	1.38
1:B:325:PHE:CD2	1:B:330:ASP:CB	2.06	1.38
2:F:252:PHE:CE1	2:F:307:TRP:CH2	2.10	1.38
2:D:125:PHE:CE2	2:D:150:ALA:HB2	1.58	1.37
1:A:72:TYR:CE2	1:A:206:SER:HB3	1.59	1.37
2:F:249:ARG:CB	2:F:307:TRP:HE1	1.38	1.36
1:B:250:ILE:CG2	1:B:365:ILE:HD11	1.56	1.35
1:B:64:SER:OG	1:B:86:ASN:N	1.60	1.35
1:E:588:PHE:CA	2:F:5:PRO:CB	1.99	1.35
1:A:72:TYR:CE2	1:A:206:SER:CB	2.09	1.35
1:A:181:ASN:OD1	1:A:187:ASP:HB2	1.26	1.35
2:C:82:ASP:OD1	2:D:65:HIS:NE2	1.57	1.35
1:E:299:SER:CB	1:E:317:SER:HB3	1.54	1.35
1:B:486:ILE:CD1	1:B:564:ASP:O	1.74	1.34
1:A:276:LEU:HD13	1:A:354:HIS:O	1.26	1.34
1:E:588:PHE:CB	2:F:5:PRO:HB3	1.56	1.34
1:B:468:LEU:HD21	1:B:559:VAL:CG1	1.57	1.34
1:E:169:LEU:CD1	1:E:183:PHE:CE1	2.11	1.34
2:F:20:LYS:HZ1	2:F:162:VAL:CB	1.36	1.33
1:A:184:TRP:CZ2	1:A:211:TYR:HB2	1.64	1.33
1:B:127:PRO:HG3	3:B:710:HOH:O	1.22	1.33
1:A:246:LYS:N	1:A:383:THR:CB	1.91	1.32
2:C:11:LYS:CB	1:A:585:TYR:CE2	1.77	1.32
1:E:500:CYS:HB2	1:E:515:GLU:OE2	1.23	1.32
1:B:454:VAL:CG1	2:D:407:PHE:CE1	2.09	1.32
1:E:454:VAL:HG22	1:E:539:MET:O	1.28	1.32
2:F:238:ILE:CG2	2:F:307:TRP:CZ3	2.10	1.32
2:D:58:HIS:CE1	2:D:98:GLY:HA3	1.64	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:165:LEU:HD13	1:A:167:THR:N	1.44	1.31
2:D:331:LEU:CD2	2:D:346:LEU:HB3	1.58	1.31
1:A:463:SER:O	1:A:509:PRO:CG	1.78	1.30
1:B:468:LEU:CD1	1:B:561:GLY:CA	2.08	1.30
1:E:571:ALA:HB2	1:E:586:ILE:CD1	1.62	1.30
2:F:330:THR:HG22	3:F:502:HOH:O	1.28	1.30
2:F:331:LEU:CD2	2:F:343:LEU:CD2	2.08	1.30
1:B:172:ILE:CD1	1:B:179:PHE:HB3	1.60	1.29
2:F:111:PRO:CB	2:F:113:HIS:CE1	2.13	1.29
2:D:331:LEU:CD2	2:D:346:LEU:CB	2.08	1.29
1:E:531:SER:OG	2:F:418:PHE:HA	1.16	1.29
2:F:20:LYS:CA	2:F:159:TRP:HZ3	1.44	1.29
1:A:579:PHE:HD2	1:A:581:ARG:CB	1.28	1.29
1:E:184:TRP:CZ3	1:E:211:TYR:CG	2.20	1.28
1:A:117:LYS:HD3	1:A:439:PHE:CZ	1.68	1.28
1:B:479:GLU:OE1	1:B:508:LEU:CB	1.81	1.28
2:F:234:MET:CE	2:F:271:LEU:HD11	1.62	1.28
1:A:223:ILE:HD11	3:A:726:HOH:O	1.18	1.28
1:A:466:THR:CB	1:A:511:LEU:HD23	1.62	1.28
2:C:36:LEU:CD2	2:C:40:TYR:HE1	1.47	1.27
1:A:111:SER:HB3	1:A:141:GLU:O	1.22	1.27
1:E:169:LEU:HD11	1:E:183:PHE:CZ	1.69	1.27
1:E:370:LEU:CD2	1:E:397:ILE:HD11	1.64	1.27
2:F:311:LEU:O	2:F:315:GLN:HG3	1.21	1.27
1:E:169:LEU:CD1	1:E:183:PHE:CZ	2.18	1.27
1:A:478:LEU:CD1	1:A:510:LEU:HD13	1.63	1.27
1:E:103:ASP:OD1	1:E:130:GLN:HB2	1.34	1.27
1:B:104:ILE:HG22	1:B:128:LEU:O	1.12	1.26
2:C:11:LYS:HA	1:A:585:TYR:CD2	1.70	1.26
2:C:258:HIS:NE2	2:C:262:LEU:HD21	1.47	1.26
1:E:232:ILE:HD11	1:E:264:LEU:CA	1.64	1.26
2:C:20:LYS:HE2	2:C:162:VAL:O	1.33	1.26
1:A:225:HIS:HB2	1:A:227:ASN:OD1	1.16	1.26
2:F:252:PHE:HD1	2:F:307:TRP:CH2	1.25	1.26
2:C:258:HIS:CD2	2:C:262:LEU:CG	2.17	1.26
1:A:165:LEU:CD1	1:A:167:THR:N	1.96	1.26
1:A:399:ILE:O	1:A:401:LYS:HB3	1.31	1.25
1:E:232:ILE:HD11	1:E:264:LEU:CD2	1.65	1.25
1:B:172:ILE:HD11	1:B:179:PHE:O	1.33	1.25
2:D:331:LEU:HD21	2:D:346:LEU:CB	1.66	1.25
1:B:290:TYR:N	1:B:311:SER:OG	1.70	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:169:LEU:HD21	1:A:441:PHE:CE1	1.72	1.25
1:E:110:HIS:NE2	1:E:137:SER:O	1.70	1.25
2:F:279:ASN:ND2	2:F:308:ILE:HD12	1.51	1.25
2:F:336:HIS:CB	2:F:339:ASN:HD22	1.46	1.25
1:B:87:LEU:CD1	1:B:160:ILE:HD13	1.65	1.25
2:F:279:ASN:OD1	2:F:301:PHE:CE1	1.90	1.25
1:A:224:LYS:HG3	1:A:228:TRP:CE3	1.71	1.24
1:E:125:SER:CA	1:E:220:VAL:CB	2.14	1.24
1:B:117:LYS:HD3	1:B:439:PHE:CE1	1.72	1.24
2:D:276:LEU:CD2	2:D:333:LYS:CB	2.16	1.24
2:D:326:LYS:C	2:D:330:THR:HG23	1.55	1.24
1:A:385:VAL:CB	1:A:403:THR:HG23	1.64	1.24
1:E:155:GLY:CA	3:E:713:HOH:O	1.72	1.24
2:F:252:PHE:CD1	2:F:307:TRP:CZ2	2.02	1.24
1:B:164:ASN:OD1	1:B:209:THR:HG22	1.28	1.24
2:C:125:PHE:CZ	2:C:150:ALA:HB2	1.71	1.24
1:A:490:PHE:CE1	1:A:523:PHE:HD1	1.53	1.24
2:F:252:PHE:CD1	2:F:307:TRP:HH2	1.26	1.24
2:C:235:ILE:HD13	2:C:278:LYS:CE	1.63	1.24
1:B:502:LEU:CB	1:B:509:PRO:HB2	1.65	1.23
1:B:62:ASN:CB	1:B:216:PRO:CG	2.16	1.23
1:B:454:VAL:HG11	2:D:407:PHE:CD1	1.71	1.23
2:D:327:MET:CA	2:D:330:THR:OG1	1.85	1.23
1:E:232:ILE:CD1	1:E:264:LEU:CD2	2.16	1.23
1:B:172:ILE:HD12	1:B:179:PHE:CB	1.68	1.23
2:C:6:ARG:O	1:A:586:ILE:HG22	1.32	1.23
2:D:326:LYS:O	2:D:330:THR:HG23	1.26	1.23
2:F:273:ASP:OD1	2:F:330:THR:CG2	1.87	1.23
2:C:88:ALA:HB2	3:C:502:HOH:O	1.36	1.23
1:E:232:ILE:CD1	1:E:264:LEU:HB2	1.59	1.23
1:E:531:SER:O	1:E:540:ASN:ND2	1.72	1.23
2:F:238:ILE:CG2	2:F:307:TRP:CH2	2.20	1.23
1:A:224:LYS:CG	1:A:228:TRP:CE3	2.20	1.22
1:B:490:PHE:CB	1:B:557:ILE:HG21	1.63	1.22
2:C:11:LYS:CG	1:A:585:TYR:CE2	2.21	1.22
2:C:373:ASP:O	2:C:374:THR:HG22	1.13	1.22
1:A:246:LYS:O	1:A:382:PRO:O	1.53	1.22
1:E:100:GLY:N	1:E:142:ASN:ND2	1.74	1.22
1:A:72:TYR:CZ	1:A:206:SER:HB3	1.74	1.22
2:C:42:GLU:O	2:C:46:LEU:HD12	1.38	1.22
1:A:165:LEU:CD1	1:A:167:THR:HB	1.68	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:325:PHE:CE1	1:E:468:LEU:HD13	1.74	1.22
2:D:62:SER:C	2:D:66:LEU:HD12	1.60	1.21
1:A:170:GLU:CG	1:A:185:GLN:NE2	2.03	1.21
1:A:334:ARG:HG3	1:A:513:TYR:OH	1.35	1.21
1:A:184:TRP:CH2	1:A:211:TYR:HD2	1.58	1.21
1:E:85:GLN:CB	1:E:131:ALA:CB	2.18	1.21
1:E:482:ILE:O	1:E:485:THR:HG23	1.34	1.21
1:B:279:ASN:CG	1:B:300:LYS:NZ	1.93	1.21
1:A:110:HIS:HB3	1:A:140:LEU:CB	1.68	1.21
1:E:370:LEU:CD2	1:E:397:ILE:CD1	2.14	1.21
2:F:252:PHE:CE1	2:F:307:TRP:HH2	1.52	1.21
1:A:451:PRO:O	1:A:541:LEU:O	1.53	1.20
1:A:456:TYR:CB	1:A:537:LYS:CB	2.19	1.20
2:F:279:ASN:ND2	2:F:308:ILE:CD1	2.03	1.20
1:B:104:ILE:HD11	1:B:109:TYR:CD2	1.75	1.20
1:A:133:GLN:NE2	1:A:134:VAL:O	1.73	1.20
2:F:10:TRP:CA	2:F:50:TYR:HE2	1.54	1.20
1:B:87:LEU:HD11	1:B:160:ILE:CD1	1.71	1.20
2:F:110:ILE:CD1	2:F:115:LEU:CD1	2.11	1.20
2:C:82:ASP:OD1	2:D:65:HIS:CD2	1.94	1.20
1:E:169:LEU:HD12	1:E:183:PHE:CE1	1.71	1.20
2:F:153:TRP:CZ2	2:F:157:HIS:HD2	1.58	1.20
1:B:164:ASN:HA	1:B:210:PHE:CE1	1.75	1.19
2:C:258:HIS:NE2	2:C:262:LEU:CD1	1.91	1.19
2:D:259:PHE:CZ	2:D:268:PRO:HB3	1.76	1.19
2:F:249:ARG:CB	2:F:307:TRP:NE1	2.05	1.19
1:B:486:ILE:HD13	1:B:564:ASP:O	1.31	1.19
1:A:63:PHE:CZ	1:A:212:PRO:CB	2.26	1.19
1:E:446:LEU:HD13	1:E:528:LEU:HD23	1.22	1.19
1:E:529:VAL:CG1	1:E:532:ILE:HD11	1.71	1.19
1:E:530:HIS:NE2	1:E:570:ILE:CG2	2.05	1.19
2:F:20:LYS:NZ	2:F:162:VAL:CB	2.03	1.19
2:C:235:ILE:HD11	2:C:278:LYS:CE	1.62	1.19
1:A:165:LEU:CD1	1:A:167:THR:CB	2.20	1.19
1:B:462:ILE:HA	1:B:556:ILE:CB	1.71	1.18
1:B:465:LEU:HD23	1:B:466:THR:N	1.56	1.18
1:B:325:PHE:CG	1:B:330:ASP:CB	2.27	1.18
1:A:494:ARG:O	3:A:702:HOH:O	1.60	1.18
1:B:455:SER:CB	2:D:405:LYS:CB	2.22	1.18
2:F:220:GLY:O	2:F:224:HIS:CD2	1.96	1.18
2:C:42:GLU:O	2:C:46:LEU:CD1	1.89	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:169:LEU:CD2	1:A:441:PHE:CE1	2.24	1.18
2:F:273:ASP:OD1	2:F:330:THR:HG21	1.06	1.18
1:B:110:HIS:HB3	1:B:140:LEU:CB	1.74	1.18
1:B:182:LEU:HD13	1:B:183:PHE:CE2	1.77	1.18
1:B:468:LEU:HD13	1:B:561:GLY:HA2	1.23	1.18
1:E:262:ARG:NH1	1:E:308:ASN:OD1	1.77	1.17
2:D:327:MET:HA	2:D:330:THR:OG1	1.02	1.17
1:A:165:LEU:HD11	1:A:167:THR:HB	1.19	1.17
1:B:180:LYS:HE2	1:B:181:ASN:HB2	1.22	1.17
1:E:588:PHE:HA	2:F:5:PRO:CA	1.74	1.17
1:B:223:ILE:CG2	3:B:721:HOH:O	1.89	1.17
1:B:87:LEU:CD1	1:B:160:ILE:CD1	2.22	1.17
2:C:36:LEU:HD21	2:C:40:TYR:HE1	1.09	1.17
2:D:63:THR:HG21	2:D:159:TRP:HE1	1.02	1.17
1:E:479:GLU:OE1	1:E:507:GLN:CB	1.92	1.17
1:B:250:ILE:HD11	1:B:373:THR:HG23	1.24	1.16
1:B:456:TYR:CE2	1:B:537:LYS:CA	2.24	1.16
1:A:63:PHE:CE1	1:A:212:PRO:CB	2.28	1.16
1:B:104:ILE:CG2	1:B:128:LEU:O	1.93	1.16
1:B:164:ASN:OD1	1:B:209:THR:CG2	1.92	1.16
2:D:259:PHE:CE1	2:D:268:PRO:CB	2.27	1.16
1:E:530:HIS:O	2:F:418:PHE:CB	1.93	1.16
2:F:353:ASP:HB3	2:F:354:PRO:HD3	1.19	1.16
1:A:358:LEU:HD13	1:A:359:ILE:H	1.04	1.16
1:B:585:TYR:HE1	2:D:9:PRO:O	1.29	1.16
1:A:81:LEU:HD23	1:A:131:ALA:HB2	1.28	1.16
2:F:10:TRP:HB3	2:F:50:TYR:CE2	1.81	1.16
1:B:250:ILE:CG2	1:B:365:ILE:CD1	2.23	1.15
2:C:177:GLU:OE1	2:C:180:ILE:CG2	1.94	1.15
1:A:465:LEU:CD1	1:A:482:ILE:HG21	1.76	1.15
1:E:340:GLU:HG2	1:E:379:ARG:HH11	1.11	1.15
2:D:344:GLU:O	2:D:348:SER:OG	1.61	1.15
1:A:169:LEU:HD22	1:A:441:PHE:CD1	1.64	1.15
2:C:10:TRP:HB3	2:C:50:TYR:CE1	1.81	1.15
2:F:280:TYR:CA	2:F:338:LEU:HD21	1.77	1.15
1:B:456:TYR:CE2	1:B:537:LYS:HA	1.82	1.15
2:F:20:LYS:HZ2	2:F:162:VAL:CG1	1.60	1.15
1:A:94:VAL:O	1:A:162:LEU:HB2	1.43	1.14
2:C:218:ILE:HG12	2:C:255:MET:HE1	1.16	1.14
2:C:280:TYR:HB2	2:C:334:THR:CG2	1.78	1.14
1:A:492:VAL:O	1:A:554:GLU:CB	1.94	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:225:HIS:HB2	1:E:228:TRP:HB2	1.25	1.14
1:B:232:ILE:CG1	1:B:264:LEU:HD23	1.71	1.14
1:B:380:VAL:HB	1:B:382:PRO:HD3	1.20	1.14
2:C:258:HIS:NE2	2:C:262:LEU:CD2	2.09	1.14
1:A:165:LEU:CD1	1:A:167:THR:CA	2.24	1.14
1:A:165:LEU:HD11	1:A:167:THR:CB	1.75	1.14
1:E:370:LEU:HD11	1:E:397:ILE:HG13	1.27	1.14
2:C:215:TRP:HA	2:C:218:ILE:HD12	1.25	1.14
2:F:24:PHE:HD1	2:F:155:TRP:CZ3	1.65	1.14
1:B:468:LEU:HD11	1:B:561:GLY:CA	1.77	1.13
1:A:364:TRP:HB3	1:A:369:GLY:HA3	1.19	1.13
2:F:20:LYS:NZ	2:F:162:VAL:HB	1.59	1.13
2:D:357:LYS:HA	2:D:360:ILE:HD12	1.22	1.13
1:A:175:VAL:O	1:A:568:TRP:HD1	1.31	1.13
1:E:155:GLY:HA3	3:E:713:HOH:O	1.37	1.13
1:E:451:PRO:HD3	2:F:413:TRP:CD2	1.84	1.13
2:C:11:LYS:CG	1:A:585:TYR:HE2	1.60	1.13
1:A:572:SER:O	1:A:575:ILE:CD1	1.96	1.13
1:E:531:SER:OG	2:F:418:PHE:CA	1.96	1.13
2:F:10:TRP:CB	2:F:50:TYR:HE2	1.60	1.13
1:B:104:ILE:HG23	1:B:129:ILE:HA	1.26	1.13
2:C:418:PHE:CE2	1:A:447:LEU:HD21	1.84	1.13
1:E:301:ILE:HG23	1:E:315:THR:HG23	1.28	1.13
1:A:478:LEU:HD13	1:A:510:LEU:HD13	1.28	1.12
1:B:87:LEU:HD13	1:B:160:ILE:HD13	1.16	1.12
2:C:36:LEU:HD21	2:C:40:TYR:CE1	1.84	1.12
1:A:111:SER:H	1:A:140:LEU:CB	1.60	1.12
1:A:181:ASN:OD1	1:A:187:ASP:CB	1.98	1.12
1:A:483:GLU:CB	1:A:532:ILE:HD12	1.79	1.12
1:B:111:SER:OG	1:B:142:ASN:HA	0.94	1.12
2:C:271:LEU:HD11	2:C:275:MET:HE2	1.32	1.12
1:A:463:SER:O	1:A:509:PRO:HG2	0.95	1.12
1:A:464:ALA:CB	1:A:509:PRO:HB2	1.79	1.12
2:F:24:PHE:CE1	2:F:155:TRP:HE3	1.67	1.12
2:C:125:PHE:HZ	2:C:150:ALA:CA	1.63	1.12
1:E:184:TRP:HZ3	1:E:211:TYR:CG	1.60	1.12
1:E:287:GLN:HB3	3:E:719:HOH:O	1.48	1.12
2:F:20:LYS:NZ	2:F:162:VAL:CG1	2.12	1.12
1:B:279:ASN:HB2	1:B:300:LYS:HZ3	1.12	1.11
2:C:418:PHE:HE2	1:A:447:LEU:HD21	0.99	1.11
2:C:418:PHE:CZ	1:A:569:GLU:OE2	2.04	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:183:LEU:CD2	2:D:224:HIS:CB	2.28	1.11
1:E:248:ILE:HD11	1:E:382:PRO:CB	1.80	1.11
1:E:294:ASP:OD1	1:E:325:PHE:O	1.67	1.11
2:F:23:PHE:CE2	2:F:43:ALA:HB1	1.84	1.11
2:F:111:PRO:HB3	2:F:113:HIS:CE1	1.83	1.11
1:B:490:PHE:HB3	1:B:557:ILE:HG21	1.20	1.11
1:A:245:ILE:O	1:A:356:SER:OG	1.68	1.11
1:E:340:GLU:CG	1:E:379:ARG:HH11	1.64	1.11
1:B:63:PHE:N	1:B:88:ILE:HD11	1.65	1.11
1:B:99:ARG:HA	1:B:142:ASN:CB	1.81	1.11
2:C:373:ASP:O	2:C:374:THR:CG2	1.99	1.11
2:D:331:LEU:CD2	2:D:346:LEU:CD1	2.29	1.11
1:E:172:ILE:HD13	1:E:183:PHE:HE2	1.11	1.11
2:C:11:LYS:CA	1:A:585:TYR:CD2	2.34	1.10
2:C:95:PHE:HE1	2:C:99:LEU:HD21	1.08	1.10
1:B:164:ASN:ND2	1:B:208:TYR:HB3	1.64	1.10
1:B:164:ASN:HD21	1:B:208:TYR:HB3	0.99	1.10
1:B:328:PRO:HB3	1:B:335:TYR:CE2	1.86	1.10
1:A:233:LYS:O	1:A:237:GLU:OE1	1.68	1.10
1:E:184:TRP:CZ3	1:E:211:TYR:HB2	1.76	1.10
1:E:299:SER:HB3	1:E:317:SER:HB2	1.23	1.10
2:F:24:PHE:CE1	2:F:155:TRP:HB2	1.84	1.10
1:B:107:VAL:HG21	1:B:266:GLN:NE2	1.65	1.10
1:B:502:LEU:HB3	1:B:509:PRO:HB2	1.19	1.10
1:A:350:GLY:HA3	1:A:357:LEU:HD11	1.33	1.10
1:A:369:GLY:HA2	1:A:372:LEU:HD12	1.20	1.10
1:E:225:HIS:CB	1:E:228:TRP:HB2	1.81	1.10
1:E:487:VAL:O	1:E:526:LEU:HD23	1.47	1.10
2:F:20:LYS:NZ	2:F:162:VAL:O	1.82	1.10
2:F:24:PHE:HE1	2:F:155:TRP:HB2	1.03	1.10
2:D:331:LEU:CD2	2:D:346:LEU:HD13	1.80	1.10
1:B:87:LEU:HD11	1:B:160:ILE:HD11	1.22	1.10
1:B:598:TRP:CE3	2:D:58:HIS:CE1	2.39	1.10
2:C:414:THR:O	2:C:416:LYS:CD	2.00	1.10
1:A:466:THR:CB	1:A:511:LEU:CD2	2.26	1.10
1:E:232:ILE:HD11	1:E:264:LEU:CG	1.81	1.10
1:A:170:GLU:HG3	1:A:185:GLN:HE22	1.01	1.09
1:A:232:ILE:HD11	1:A:264:LEU:CG	1.80	1.09
2:C:186:LEU:CB	2:C:221:ILE:HG12	1.80	1.09
1:A:184:TRP:CZ2	1:A:211:TYR:CD2	2.40	1.09
1:E:99:ARG:HA	1:E:142:ASN:ND2	1.66	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:301:ILE:HG23	1:E:315:THR:CG2	1.81	1.09
1:B:104:ILE:O	1:B:107:VAL:HG22	1.53	1.09
1:B:118:PHE:CD1	1:B:306:HIS:CB	2.22	1.09
1:B:239:TYR:O	1:B:274:GLN:NE2	1.85	1.09
1:A:385:VAL:HB	1:A:403:THR:CG2	1.81	1.09
1:E:164:ASN:OD1	1:E:209:THR:HG22	1.51	1.09
1:E:451:PRO:HG3	2:F:413:TRP:CZ2	1.86	1.09
1:B:383:THR:HG22	1:B:384:HIS:CD2	1.88	1.09
1:B:468:LEU:HD21	1:B:559:VAL:HG11	1.30	1.09
1:A:232:ILE:HG13	1:A:264:LEU:HD23	1.29	1.09
1:E:370:LEU:CD1	1:E:397:ILE:CD1	2.13	1.09
1:E:446:LEU:CD1	1:E:528:LEU:HD23	1.83	1.09
2:F:111:PRO:HB2	2:F:113:HIS:ND1	1.67	1.09
1:A:350:GLY:HA2	1:A:357:LEU:HD11	1.33	1.09
1:A:492:VAL:CG1	1:A:557:ILE:HD13	1.83	1.09
1:E:91:GLY:O	1:E:120:ASN:OD1	1.70	1.09
1:E:230:ASP:O	1:E:234:SER:N	1.83	1.09
2:F:122:PRO:HG2	2:F:125:PHE:CE2	1.88	1.09
2:D:160:ASP:OD2	3:D:501:HOH:O	1.70	1.08
2:D:276:LEU:HD13	2:D:333:LYS:CB	1.83	1.08
1:A:63:PHE:CE1	1:A:212:PRO:HB2	1.89	1.08
1:A:170:GLU:CD	1:A:185:GLN:NE2	2.04	1.08
1:A:374:ARG:O	1:A:377:ILE:HG12	1.35	1.08
2:F:316:ILE:HD11	2:F:346:LEU:HD23	1.29	1.08
2:C:36:LEU:CD2	2:C:40:TYR:CE1	2.36	1.08
1:A:95:LEU:CB	1:A:162:LEU:HB3	1.84	1.08
1:E:435:LYS:HE2	1:E:545:GLN:HE22	1.08	1.08
1:E:529:VAL:HG13	1:E:532:ILE:HD11	1.29	1.08
2:F:111:PRO:HB2	2:F:113:HIS:CE1	1.86	1.08
2:F:272:ILE:CD1	2:F:315:GLN:NE2	2.15	1.08
2:D:24:PHE:CE2	2:D:155:TRP:HD1	1.50	1.08
1:A:389:ASN:ND2	1:A:408:LEU:HB3	1.68	1.08
1:A:492:VAL:HG11	1:A:557:ILE:HD13	1.35	1.08
2:C:125:PHE:CZ	2:C:150:ALA:CB	2.37	1.08
1:A:117:LYS:CD	1:A:439:PHE:CE2	2.37	1.08
1:B:479:GLU:CD	1:B:508:LEU:CB	2.23	1.07
2:D:190:TYR:HA	2:D:193:ILE:HD12	1.10	1.07
1:A:111:SER:CB	1:A:141:GLU:O	2.02	1.07
1:E:99:ARG:CA	1:E:142:ASN:CG	2.20	1.07
1:E:232:ILE:CD1	1:E:264:LEU:CG	2.32	1.07
1:E:530:HIS:NE2	1:E:570:ILE:HG22	1.67	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:40:TYR:CZ	2:F:67:PHE:HE2	1.72	1.07
2:F:406:SER:HB2	3:F:504:HOH:O	1.52	1.07
2:C:10:TRP:CA	2:C:50:TYR:HE1	1.67	1.07
1:A:463:SER:OG	1:A:555:ALA:CB	2.02	1.07
1:A:468:LEU:HD23	1:A:559:VAL:CG1	1.84	1.07
2:D:58:HIS:HE1	2:D:98:GLY:CA	1.66	1.07
2:D:259:PHE:HE1	2:D:268:PRO:CB	1.65	1.07
1:A:565:LEU:HD13	1:A:570:ILE:HD11	1.29	1.07
1:E:93:PHE:HB3	1:E:210:PHE:CD1	1.89	1.07
1:E:524:PHE:HE2	1:E:543:ILE:HD11	1.16	1.07
2:F:20:LYS:NZ	2:F:162:VAL:HG12	1.69	1.07
2:F:272:ILE:HD13	2:F:315:GLN:NE2	1.69	1.07
1:B:279:ASN:ND2	1:B:300:LYS:HZ1	1.51	1.07
1:A:172:ILE:HD11	1:A:183:PHE:CE2	1.90	1.07
1:A:358:LEU:HD13	1:A:359:ILE:N	1.69	1.07
1:A:483:GLU:HB2	1:A:532:ILE:CD1	1.84	1.07
1:E:504:ASN:O	1:E:509:PRO:HB3	1.55	1.07
2:F:111:PRO:HG2	2:F:114:LEU:HB2	1.35	1.07
2:F:262:LEU:HD13	2:F:263:LYS:HG3	1.32	1.07
2:F:354:PRO:HD2	2:F:355:VAL:H	1.13	1.07
1:B:468:LEU:HD11	1:B:561:GLY:N	1.69	1.07
1:B:492:VAL:N	1:B:557:ILE:HD11	1.70	1.07
2:C:414:THR:O	2:C:416:LYS:CE	2.03	1.07
2:D:237:ARG:O	2:D:240:SER:OG	1.70	1.07
1:A:206:SER:OG	1:A:211:TYR:OH	1.69	1.07
1:E:370:LEU:CG	1:E:397:ILE:CD1	2.28	1.07
1:B:72:TYR:OH	1:B:205:PHE:HA	1.54	1.06
1:A:172:ILE:HG22	1:A:179:PHE:HB2	1.23	1.06
1:B:81:LEU:HD22	1:B:160:ILE:HD11	1.36	1.06
1:B:171:SER:O	1:B:174:ARG:HG3	1.55	1.06
2:D:24:PHE:HE1	2:D:67:PHE:CZ	1.74	1.06
1:A:230:ASP:O	1:A:234:SER:N	1.88	1.06
1:A:232:ILE:CG1	1:A:264:LEU:HD23	1.83	1.06
1:E:364:TRP:HB3	1:E:369:GLY:HA3	1.12	1.06
1:B:290:TYR:CA	1:B:311:SER:OG	2.02	1.06
1:B:468:LEU:CD2	1:B:559:VAL:CG1	2.34	1.06
1:B:468:LEU:HD12	1:B:561:GLY:HA2	1.32	1.06
1:E:248:ILE:HD11	1:E:382:PRO:HB3	1.11	1.06
1:B:63:PHE:CB	1:B:88:ILE:HD11	1.76	1.06
1:B:161:LYS:NZ	1:B:163:THR:OG1	1.88	1.06
2:C:305:GLN:HA	2:C:308:ILE:CG1	1.85	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:170:GLU:HG3	1:A:185:GLN:NE2	1.62	1.06
1:E:85:GLN:CB	1:E:131:ALA:HB3	1.83	1.06
1:E:99:ARG:CA	1:E:142:ASN:ND2	2.18	1.06
1:E:226:LYS:O	1:E:230:ASP:N	1.89	1.06
1:E:299:SER:CB	1:E:317:SER:HB2	1.72	1.06
1:E:370:LEU:CD1	1:E:397:ILE:CG1	2.31	1.06
2:F:12:SER:N	2:F:15:GLU:OE1	1.88	1.06
2:F:20:LYS:HZ2	2:F:162:VAL:HG12	1.14	1.06
2:C:177:GLU:OE1	2:C:180:ILE:HG23	1.50	1.06
2:F:116:ALA:HA	2:F:119:ILE:HD11	1.38	1.06
1:B:64:SER:OG	1:B:86:ASN:O	1.74	1.05
1:B:223:ILE:HG21	3:B:721:HOH:O	1.48	1.05
1:E:219:THR:O	3:E:702:HOH:O	1.73	1.05
1:E:224:LYS:HG2	1:E:228:TRP:CZ3	1.89	1.05
1:E:479:GLU:OE1	1:E:507:GLN:HB3	1.53	1.05
1:E:504:ASN:ND2	1:E:505:LYS:O	1.88	1.05
2:F:236:GLU:O	2:F:240:SER:N	1.88	1.05
1:B:529:VAL:HG21	1:B:532:ILE:HD11	1.38	1.05
2:C:128:PHE:CE2	2:C:138:PRO:HG2	1.91	1.05
1:A:468:LEU:CD2	1:A:559:VAL:HG11	1.84	1.05
1:E:172:ILE:HD13	1:E:183:PHE:CE2	1.89	1.05
1:E:232:ILE:HD12	1:E:264:LEU:HD23	1.12	1.05
2:F:256:MET:HA	2:F:259:PHE:HB3	1.36	1.05
1:B:454:VAL:HG12	2:D:407:PHE:CD1	1.88	1.05
1:B:529:VAL:HG23	1:B:540:ASN:O	1.54	1.05
2:C:186:LEU:HB3	2:C:221:ILE:CG1	1.87	1.05
2:C:235:ILE:HD13	2:C:278:LYS:HE3	1.09	1.05
2:C:258:HIS:CD2	2:C:262:LEU:HG	1.90	1.05
1:A:184:TRP:CZ2	1:A:211:TYR:HD2	1.72	1.05
1:E:224:LYS:CG	1:E:228:TRP:CE3	2.40	1.05
1:A:377:ILE:H	1:A:377:ILE:HD13	1.19	1.05
1:E:232:ILE:HD13	1:E:264:LEU:HB2	1.05	1.05
2:C:418:PHE:HZ	1:A:569:GLU:OE2	1.37	1.05
1:A:408:LEU:H	1:A:408:LEU:HD13	1.17	1.05
1:E:233:LYS:O	1:E:233:LYS:NZ	1.88	1.05
1:E:284:ASP:OD1	1:E:287:GLN:N	1.88	1.05
1:E:349:ASP:C	1:E:351:GLU:OE1	1.96	1.05
1:E:586:ILE:HG23	2:F:6:ARG:O	1.55	1.05
2:F:345:LYS:O	2:F:348:SER:OG	1.75	1.05
1:B:104:ILE:CD1	1:B:107:VAL:HG23	1.87	1.04
1:B:250:ILE:HG23	1:B:365:ILE:CD1	1.84	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:432:TYR:CE2	1:B:526:LEU:HB2	1.90	1.04
2:C:299:GLN:O	2:C:303:CYS:N	1.88	1.04
1:B:164:ASN:HA	1:B:210:PHE:HE1	0.89	1.04
1:A:490:PHE:CE1	1:A:523:PHE:CD1	2.44	1.04
1:B:207:ASP:O	3:B:701:HOH:O	1.74	1.04
1:A:117:LYS:CD	1:A:439:PHE:HE2	1.69	1.04
1:E:161:LYS:NZ	1:E:163:THR:OG1	1.88	1.04
1:E:366:LYS:HD2	1:E:367:GLY:H	1.19	1.04
1:E:433:PHE:HA	1:E:544:PRO:HB3	1.08	1.04
2:F:237:ARG:HA	2:F:240:SER:HB2	1.39	1.04
1:B:594:LEU:O	2:D:59:ILE:HG13	1.58	1.04
2:C:141:GLU:OE1	2:C:144:LYS:NZ	1.88	1.04
2:D:183:LEU:HD21	2:D:224:HIS:HB3	1.06	1.04
1:A:184:TRP:CH2	1:A:211:TYR:CD2	2.45	1.04
2:F:10:TRP:CA	2:F:50:TYR:CE2	2.40	1.04
2:C:258:HIS:CE1	2:C:262:LEU:HD21	1.91	1.04
1:A:169:LEU:HD23	1:A:441:PHE:CD1	1.89	1.04
1:B:325:PHE:HZ	1:B:469:LYS:HB2	1.24	1.03
2:C:133:THR:O	2:D:97:ASN:ND2	1.90	1.03
2:D:268:PRO:HA	2:D:271:LEU:HD11	1.39	1.03
2:F:312:ALA:HB1	2:F:342:LEU:HD21	1.36	1.03
1:B:118:PHE:CE1	1:B:306:HIS:CG	2.46	1.03
1:B:368:TYR:CE1	1:B:372:LEU:HG	1.92	1.03
1:A:365:ILE:O	1:A:393:LEU:CD2	2.07	1.03
1:E:181:ASN:O	3:E:703:HOH:O	1.74	1.03
2:F:262:LEU:CD1	2:F:263:LYS:HG3	1.89	1.03
1:B:171:SER:OG	1:B:174:ARG:HD2	1.59	1.03
2:D:125:PHE:HZ	2:D:150:ALA:N	1.54	1.03
1:A:165:LEU:HD11	1:A:167:THR:CA	1.87	1.03
1:A:490:PHE:HB2	1:A:557:ILE:HG13	1.40	1.03
1:E:103:ASP:O	1:E:130:GLN:OE1	1.76	1.03
1:E:560:ARG:NH2	1:E:561:GLY:O	1.90	1.03
2:F:345:LYS:HA	2:F:348:SER:OG	1.59	1.03
2:F:353:ASP:HB3	2:F:354:PRO:CD	1.88	1.03
1:B:103:ASP:HA	1:B:108:ILE:HA	1.39	1.03
1:B:481:SER:O	3:B:702:HOH:O	1.75	1.03
1:A:72:TYR:HE2	1:A:206:SER:HB2	1.21	1.03
1:A:169:LEU:HD21	1:A:441:PHE:CD1	1.83	1.03
1:E:299:SER:HA	1:E:317:SER:HA	1.41	1.03
1:E:479:GLU:OE1	1:E:507:GLN:HB2	1.58	1.03
2:D:58:HIS:HE1	2:D:98:GLY:HA3	0.87	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:63:PHE:CE2	1:A:214:THR:CA	2.07	1.02
2:F:40:TYR:CE1	2:F:67:PHE:HE2	1.76	1.02
1:B:81:LEU:CD2	1:B:87:LEU:HD11	1.88	1.02
1:B:111:SER:CB	1:B:142:ASN:HA	1.89	1.02
1:E:466:THR:HG21	1:E:516:PHE:CD2	1.93	1.02
2:F:280:TYR:CB	2:F:338:LEU:HD21	1.90	1.02
2:D:24:PHE:CD2	2:D:155:TRP:CD1	2.47	1.02
1:A:483:GLU:CD	1:A:532:ILE:CD1	2.27	1.02
1:A:63:PHE:CE1	1:A:212:PRO:HB3	1.90	1.02
1:E:425:ARG:O	1:E:429:THR:OG1	1.77	1.02
2:F:328:ILE:H	2:F:328:ILE:HD12	1.25	1.02
2:F:331:LEU:CG	2:F:343:LEU:CD2	2.10	1.02
1:B:238:LEU:CD1	3:B:715:HOH:O	2.08	1.01
1:B:491:LYS:C	1:B:557:ILE:HD12	1.80	1.01
2:C:15:GLU:N	2:C:15:GLU:OE1	1.92	1.01
2:D:125:PHE:CE2	2:D:150:ALA:CB	2.43	1.01
2:D:326:LYS:O	2:D:330:THR:N	1.91	1.01
2:D:149:ARG:HG3	3:D:506:HOH:O	1.59	1.01
1:A:364:TRP:CZ3	1:A:368:TYR:HB3	1.94	1.01
1:E:437:ASP:OD1	1:E:438:ASP:N	1.92	1.01
1:E:502:LEU:CB	1:E:509:PRO:HB2	1.91	1.01
1:B:380:VAL:CB	1:B:382:PRO:HD3	1.90	1.01
2:C:11:LYS:HA	1:A:585:TYR:HD2	0.89	1.01
2:C:125:PHE:HZ	2:C:150:ALA:CB	1.73	1.01
2:C:418:PHE:CE2	1:A:447:LEU:CD2	2.42	1.01
1:A:368:TYR:CE1	1:A:372:LEU:HD21	1.95	1.01
2:F:234:MET:HE3	2:F:271:LEU:CD1	1.89	1.01
1:B:103:ASP:CB	1:B:108:ILE:CG1	2.38	1.01
1:B:491:LYS:C	1:B:557:ILE:CD1	2.29	1.01
1:A:165:LEU:CD1	1:A:167:THR:H	1.67	1.01
1:A:170:GLU:CG	1:A:185:GLN:HE22	1.69	1.01
1:A:172:ILE:HD11	1:A:183:PHE:HE2	1.19	1.01
1:A:175:VAL:O	1:A:568:TRP:CD1	2.12	1.01
1:A:383:THR:O	1:A:384:HIS:ND1	1.92	1.01
2:D:246:GLU:O	2:D:250:ALA:N	1.93	1.01
1:A:125:SER:CB	1:A:222:VAL:HG22	1.91	1.01
1:A:225:HIS:CB	1:A:227:ASN:OD1	2.09	1.01
1:A:226:LYS:O	1:A:230:ASP:CB	2.08	1.01
1:A:364:TRP:CB	1:A:369:GLY:HA3	1.90	1.01
1:E:294:ASP:OD1	1:E:325:PHE:C	1.99	1.01
1:E:499:GLU:O	1:E:515:GLU:CD	1.98	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:571:ALA:HB2	1:E:586:ILE:HD12	1.40	1.01
2:C:137:LEU:HD12	2:C:138:PRO:CD	1.90	1.00
1:E:232:ILE:HD11	1:E:264:LEU:HA	1.38	1.00
1:E:340:GLU:OE2	1:E:344:ARG:HD3	1.61	1.00
1:B:279:ASN:CB	1:B:300:LYS:NZ	2.24	1.00
2:C:148:ASP:HA	2:C:151:ILE:HG22	1.42	1.00
1:A:408:LEU:HD22	1:A:409:GLN:H	1.26	1.00
1:E:85:GLN:CB	1:E:131:ALA:H	1.74	1.00
1:E:211:TYR:HD1	1:E:212:PRO:HD2	1.24	1.00
1:E:335:TYR:O	1:E:339:VAL:HG23	1.61	1.00
1:E:593:SER:HB3	1:E:594:LEU:HA	1.43	1.00
2:D:160:ASP:CG	3:D:501:HOH:O	1.98	1.00
1:A:181:ASN:OD1	1:A:187:ASP:C	1.98	1.00
2:F:331:LEU:HG	2:F:343:LEU:CG	1.92	1.00
1:B:223:ILE:HD12	1:B:224:LYS:H	1.27	1.00
2:C:274:SER:O	2:C:278:LYS:HG2	1.60	1.00
1:A:246:LYS:H	1:A:383:THR:CB	1.72	1.00
1:E:172:ILE:CD1	1:E:183:PHE:HE2	1.74	1.00
1:E:276:LEU:HD13	1:E:354:HIS:CB	1.91	1.00
2:F:247:HIS:O	2:F:250:ALA:N	1.95	1.00
1:B:104:ILE:HD11	1:B:109:TYR:HD2	1.23	0.99
1:B:490:PHE:CB	1:B:557:ILE:CB	2.39	0.99
1:B:91:GLY:O	1:B:120:ASN:OD1	1.80	0.99
2:D:276:LEU:CD1	2:D:333:LYS:CB	2.39	0.99
2:F:311:LEU:O	2:F:315:GLN:CG	2.10	0.99
1:A:125:SER:HB2	1:A:222:VAL:HG22	1.43	0.99
1:A:368:TYR:CE1	1:A:372:LEU:CD2	2.45	0.99
1:E:482:ILE:O	1:E:485:THR:CG2	2.09	0.99
1:B:331:GLN:HB3	1:B:334:ARG:HB2	1.42	0.99
1:B:585:TYR:C	1:B:586:ILE:HD13	1.82	0.99
1:A:162:LEU:HD21	1:A:210:PHE:CE2	1.97	0.99
1:E:340:GLU:HG2	1:E:379:ARG:NH1	1.76	0.99
1:E:433:PHE:CE1	1:E:526:LEU:O	2.16	0.99
2:C:11:LYS:CB	1:A:585:TYR:CD2	2.45	0.99
2:D:354:PRO:CB	2:D:356:ILE:HD12	1.93	0.99
1:A:436:ILE:CG2	1:A:440:LYS:HB3	1.92	0.99
2:F:345:LYS:C	2:F:348:SER:HG	1.66	0.99
1:B:122:SER:OG	1:B:182:LEU:O	1.79	0.99
1:B:491:LYS:CA	1:B:557:ILE:HD12	1.91	0.99
1:E:125:SER:OG	1:E:220:VAL:CB	2.11	0.99
1:E:489:ILE:HD11	1:E:527:ALA:HB2	1.45	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:414:HIS:O	1:A:418:ARG:N	1.95	0.99
1:A:482:ILE:HD12	1:A:532:ILE:HG21	1.45	0.99
2:F:158:TYR:HD1	2:F:159:TRP:CD1	1.80	0.99
1:E:447:LEU:CD1	1:E:575:ILE:HG21	1.93	0.98
2:F:406:SER:CB	3:F:504:HOH:O	2.09	0.98
1:A:483:GLU:HB2	1:A:532:ILE:HD12	1.01	0.98
1:B:350:GLY:HA2	1:B:357:LEU:HD13	1.46	0.98
2:C:280:TYR:HB2	2:C:334:THR:HG23	1.45	0.98
2:D:125:PHE:HE2	2:D:150:ALA:HB2	0.94	0.98
1:E:121:PRO:O	1:E:182:LEU:O	1.79	0.98
1:B:182:LEU:HD13	1:B:183:PHE:HE2	1.13	0.98
2:C:95:PHE:CE1	2:C:99:LEU:HD21	1.97	0.98
1:E:85:GLN:CB	1:E:131:ALA:N	2.27	0.98
1:B:232:ILE:HG13	1:B:264:LEU:CD2	1.92	0.98
1:A:162:LEU:CD2	1:A:210:PHE:CE2	2.46	0.98
1:A:184:TRP:CZ2	1:A:211:TYR:CB	2.46	0.98
1:A:565:LEU:CD1	1:A:570:ILE:HD11	1.92	0.98
1:E:588:PHE:N	2:F:5:PRO:HB3	1.77	0.98
2:F:153:TRP:CZ2	2:F:157:HIS:CD2	2.51	0.98
1:B:388:LEU:HD13	1:B:406:ILE:HG13	1.45	0.98
1:A:492:VAL:O	1:A:554:GLU:CA	2.11	0.98
1:E:322:TYR:O	1:E:334:ARG:NH1	1.95	0.98
1:B:121:PRO:HD3	1:B:308:ASN:HB3	1.45	0.98
1:B:310:LEU:HD12	1:B:428:LYS:HD2	1.43	0.98
1:B:483:GLU:O	3:B:702:HOH:O	1.78	0.98
1:A:165:LEU:HD12	1:A:167:THR:CB	1.91	0.98
1:B:490:PHE:HB2	1:B:557:ILE:HG22	0.99	0.98
2:F:24:PHE:CE1	2:F:155:TRP:CE3	2.44	0.98
2:D:190:TYR:CE2	2:D:218:ILE:HG23	1.98	0.98
1:A:78:ILE:HA	1:A:161:LYS:HB3	1.45	0.98
1:E:364:TRP:CZ3	1:E:368:TYR:HB3	1.97	0.98
1:E:530:HIS:O	2:F:418:PHE:O	1.80	0.97
1:A:72:TYR:OH	1:A:206:SER:HB3	1.62	0.97
1:B:164:ASN:CA	1:B:210:PHE:HE1	1.76	0.97
2:C:249:ARG:CB	2:C:307:TRP:HH2	1.64	0.97
1:B:530:HIS:ND1	1:B:531:SER:OG	1.96	0.97
1:E:93:PHE:CB	1:E:210:PHE:CD1	2.47	0.97
1:E:318:THR:HG22	1:E:319:GLN:HG3	1.44	0.97
1:B:484:ALA:CB	1:B:585:TYR:CE2	2.47	0.97
2:C:258:HIS:NE2	2:C:262:LEU:CG	2.21	0.97
2:C:260:ILE:HG21	2:C:315:GLN:NE2	1.79	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:127:GLU:OE1	1:A:367:GLY:HA3	1.65	0.97
1:A:81:LEU:HD23	1:A:131:ALA:CB	1.94	0.97
1:E:138:SER:HB3	1:E:140:LEU:CB	1.95	0.97
1:E:232:ILE:CD1	1:E:264:LEU:HA	1.92	0.97
1:B:456:TYR:CZ	1:B:537:LYS:HA	1.99	0.97
2:D:24:PHE:CE1	2:D:67:PHE:HZ	1.82	0.97
2:D:145:THR:HG22	3:D:506:HOH:O	1.64	0.97
1:B:104:ILE:HD11	1:B:109:TYR:CE2	1.98	0.97
1:B:238:LEU:HD12	3:B:715:HOH:O	1.63	0.97
1:A:468:LEU:HD23	1:A:559:VAL:HG13	1.45	0.97
1:E:184:TRP:CE3	1:E:211:TYR:CB	2.37	0.97
2:F:279:ASN:HD22	2:F:308:ILE:CD1	1.68	0.97
1:B:104:ILE:H	1:B:104:ILE:HD12	1.28	0.96
1:B:126:ILE:HG12	1:B:220:VAL:O	1.65	0.96
1:A:276:LEU:CD1	1:A:354:HIS:O	2.12	0.96
2:F:336:HIS:CB	2:F:339:ASN:ND2	2.27	0.96
1:E:370:LEU:HD21	1:E:397:ILE:HD13	0.97	0.96
1:E:531:SER:HA	2:F:418:PHE:O	1.63	0.96
1:B:63:PHE:N	1:B:88:ILE:CD1	2.27	0.96
1:B:529:VAL:CG2	1:B:540:ASN:O	2.12	0.96
1:E:99:ARG:HA	1:E:142:ASN:CB	1.94	0.96
1:E:451:PRO:HG2	2:F:413:TRP:CH2	2.00	0.96
1:B:328:PRO:HB3	1:B:335:TYR:CD2	2.01	0.96
2:C:31:ILE:CG1	2:C:35:GLU:OE1	2.13	0.96
1:E:499:GLU:O	1:E:515:GLU:OE2	1.83	0.96
2:F:252:PHE:O	2:F:256:MET:HG2	1.66	0.96
1:B:75:ASP:O	1:B:164:ASN:HB2	1.63	0.96
2:D:331:LEU:O	2:D:343:LEU:HD21	1.64	0.96
1:A:71:ILE:HD13	1:A:71:ILE:H	1.29	0.96
2:F:153:TRP:CE2	2:F:157:HIS:CD2	2.52	0.96
2:C:63:THR:HG21	2:C:159:TRP:HE1	1.27	0.96
2:C:418:PHE:HE2	1:A:447:LEU:CD2	1.77	0.96
1:E:254:ASN:O	1:E:254:ASN:ND2	1.99	0.96
1:E:325:PHE:HE1	1:E:468:LEU:CD1	1.76	0.96
1:B:279:ASN:CB	1:B:300:LYS:HZ3	1.79	0.96
1:A:463:SER:OG	1:A:555:ALA:HB1	1.64	0.96
2:F:280:TYR:HA	2:F:338:LEU:HD21	1.45	0.96
1:B:347:GLU:OE1	1:B:379:ARG:NH2	1.99	0.96
1:B:543:ILE:HD11	1:B:546:PHE:CD1	2.00	0.96
2:C:90:MET:HE2	2:D:132:ALA:HB1	1.47	0.96
1:E:248:ILE:CD1	1:E:382:PRO:HB3	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:281:MET:CG	1:E:342:LEU:HD21	1.94	0.96
1:E:321:HIS:NE2	1:E:341:GLN:NE2	2.13	0.96
1:E:322:TYR:CE2	1:E:324:GLY:HA2	2.00	0.96
2:F:186:LEU:HD12	2:F:224:HIS:NE2	1.80	0.96
2:F:237:ARG:O	2:F:241:ASN:N	1.98	0.96
1:A:583:LEU:CB	1:A:586:ILE:HG12	1.91	0.95
1:A:162:LEU:HD21	1:A:210:PHE:CD2	2.00	0.95
2:F:345:LYS:CA	2:F:348:SER:OG	2.13	0.95
1:E:570:ILE:H	1:E:570:ILE:HD13	1.31	0.95
1:A:172:ILE:HG22	1:A:179:PHE:CB	1.76	0.95
2:C:10:TRP:CB	2:C:50:TYR:HE1	1.79	0.95
1:E:370:LEU:HG	1:E:397:ILE:HD11	1.48	0.95
1:B:475:MET:O	1:B:478:LEU:HD22	1.66	0.95
1:E:326:ASN:OD1	1:E:425:ARG:NH1	1.86	0.95
2:F:20:LYS:HZ1	2:F:162:VAL:HB	0.79	0.95
2:D:68:SER:HA	2:D:71:MET:HG3	1.49	0.95
1:E:348:SER:O	1:E:351:GLU:OE2	1.84	0.95
1:B:63:PHE:CA	1:B:88:ILE:CD1	2.45	0.95
1:A:63:PHE:CD2	1:A:214:THR:HA	2.00	0.95
1:B:468:LEU:HD21	1:B:559:VAL:HG12	1.48	0.95
2:D:63:THR:HG21	2:D:159:TRP:NE1	1.80	0.95
2:D:326:LYS:O	2:D:330:THR:CG2	2.15	0.95
1:A:465:LEU:HD13	1:A:482:ILE:HG21	1.49	0.95
2:F:153:TRP:CE2	2:F:157:HIS:HD2	1.82	0.95
2:C:410:HIS:HA	1:A:453:GLN:OE1	1.64	0.95
1:A:224:LYS:CG	1:A:228:TRP:HE3	1.69	0.95
1:E:595:GLU:CB	2:F:55:ARG:CB	2.44	0.95
2:F:325:SER:CA	2:F:328:ILE:HD13	1.96	0.95
2:C:31:ILE:HG12	2:C:35:GLU:OE1	1.68	0.94
2:F:279:ASN:OD1	2:F:301:PHE:CD1	2.21	0.94
1:B:252:GLY:N	1:B:255:SER:OG	1.99	0.94
1:E:433:PHE:HE1	1:E:526:LEU:O	1.49	0.94
2:F:71:MET:O	2:F:75:SER:OG	1.85	0.94
2:D:7:LEU:HD12	2:D:8:THR:N	1.81	0.94
2:D:46:LEU:O	2:D:50:TYR:N	1.99	0.94
2:D:149:ARG:CG	3:D:506:HOH:O	2.14	0.94
1:B:104:ILE:CD1	1:B:109:TYR:CE2	2.50	0.94
2:D:125:PHE:HE2	2:D:150:ALA:CB	1.78	0.94
1:B:530:HIS:N	3:B:704:HOH:O	1.99	0.94
2:F:331:LEU:HD21	2:F:343:LEU:CD2	1.97	0.94
2:C:125:PHE:CZ	2:C:150:ALA:CA	2.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:164:ASN:HD21	1:B:208:TYR:CB	1.80	0.94
1:B:180:LYS:HE2	1:B:181:ASN:CB	1.95	0.94
1:B:351:GLU:O	1:B:353:LYS:CB	2.16	0.94
1:E:232:ILE:CG1	1:E:264:LEU:HA	1.98	0.94
2:F:110:ILE:HD11	2:F:115:LEU:HD12	1.49	0.94
2:F:280:TYR:HA	2:F:338:LEU:CD2	1.98	0.94
2:C:29:GLU:N	2:C:29:GLU:OE2	2.01	0.94
2:C:227:MET:HG2	2:C:230:PHE:CB	1.98	0.94
2:D:259:PHE:CZ	2:D:268:PRO:CB	2.48	0.94
1:A:456:TYR:CB	1:A:537:LYS:CA	2.45	0.94
1:E:109:TYR:CE1	1:E:271:PRO:HD3	2.02	0.94
1:E:479:GLU:CD	1:E:507:GLN:HB3	1.86	0.94
1:E:588:PHE:HA	2:F:5:PRO:HB3	1.02	0.94
2:F:11:LYS:N	2:F:15:GLU:OE1	2.00	0.94
2:F:279:ASN:HD22	2:F:308:ILE:HD12	1.13	0.94
2:D:99:LEU:HD12	2:D:121:LEU:HD11	1.50	0.94
1:B:250:ILE:HG21	1:B:365:ILE:CD1	1.98	0.94
1:B:585:TYR:CE1	2:D:9:PRO:O	2.21	0.94
2:D:93:ILE:HD11	2:D:132:ALA:HB3	1.47	0.94
1:A:385:VAL:CG1	1:A:403:THR:CG2	2.45	0.94
1:E:233:LYS:O	1:E:236:THR:OG1	1.85	0.94
1:E:100:GLY:N	1:E:111:SER:OG	2.00	0.93
1:E:281:MET:SD	1:E:283:LEU:HD21	2.08	0.93
1:B:111:SER:OG	1:B:142:ASN:N	2.01	0.93
2:C:59:ILE:HG12	1:A:596:LYS:HB3	1.47	0.93
2:C:147:VAL:O	2:C:151:ILE:N	2.00	0.93
2:D:62:SER:O	2:D:66:LEU:HD12	0.76	0.93
1:E:447:LEU:HD11	1:E:575:ILE:HG21	1.50	0.93
2:F:20:LYS:CA	2:F:159:TRP:CZ3	2.30	0.93
2:D:190:TYR:HA	2:D:193:ILE:CD1	1.99	0.93
2:F:238:ILE:HG21	2:F:307:TRP:HZ3	1.23	0.93
2:F:365:THR:O	2:F:369:ARG:N	2.01	0.93
2:C:141:GLU:O	2:C:145:THR:OG1	1.85	0.93
1:A:492:VAL:CG1	1:A:557:ILE:CD1	2.46	0.93
1:E:211:TYR:CD1	1:E:212:PRO:HD2	2.02	0.93
2:C:15:GLU:O	2:C:18:TYR:N	2.00	0.93
2:C:414:THR:O	2:C:416:LYS:HE3	1.68	0.93
1:B:502:LEU:HB2	1:B:509:PRO:HB2	1.47	0.93
2:C:186:LEU:HB3	2:C:221:ILE:HG12	0.94	0.93
1:E:325:PHE:HE1	1:E:468:LEU:HD13	1.14	0.93
2:F:121:LEU:HD12	2:F:122:PRO:HD3	1.47	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:256:GLY:O	1:B:259:THR:OG1	1.85	0.93
1:E:78:ILE:CD1	1:E:161:LYS:HG3	1.99	0.93
1:E:232:ILE:CD1	1:E:264:LEU:CA	2.34	0.93
1:E:588:PHE:N	2:F:5:PRO:CB	2.30	0.93
2:F:252:PHE:HD1	2:F:307:TRP:HZ2	1.06	0.93
1:B:169:LEU:HD12	1:B:183:PHE:CE1	2.03	0.93
2:F:9:PRO:HG2	2:F:10:TRP:CE3	2.02	0.93
1:B:494:ARG:CB	1:B:553:LYS:HG3	1.98	0.93
2:C:10:TRP:CB	2:C:50:TYR:CE1	2.52	0.93
2:D:183:LEU:HD22	2:D:224:HIS:HB3	1.47	0.93
1:E:224:LYS:CG	1:E:228:TRP:CZ3	2.52	0.93
1:E:437:ASP:HB3	1:E:440:LYS:NZ	1.84	0.93
1:A:169:LEU:HD22	1:A:441:PHE:HD1	1.14	0.92
1:E:182:LEU:HB3	1:E:183:PHE:CE2	2.03	0.92
1:E:461:GLY:HA3	3:F:504:HOH:O	1.69	0.92
2:C:128:PHE:HZ	2:C:143:CYS:HG	1.05	0.92
1:E:235:LEU:CD1	1:E:247:VAL:HG21	1.99	0.92
2:F:345:LYS:C	2:F:348:SER:OG	2.06	0.92
1:B:279:ASN:HB2	1:B:300:LYS:NZ	1.85	0.92
1:B:351:GLU:O	1:B:353:LYS:O	1.86	0.92
1:B:490:PHE:HB3	1:B:557:ILE:CG2	1.78	0.92
2:C:137:LEU:HB2	2:D:94:ARG:NH2	1.85	0.92
1:A:463:SER:C	1:A:509:PRO:HG2	1.88	0.92
1:E:78:ILE:HD11	1:E:161:LYS:HG3	1.49	0.92
2:D:96:VAL:HG12	2:D:100:LEU:HD11	1.48	0.92
1:A:64:SER:OG	1:A:85:GLN:CB	2.18	0.92
1:A:464:ALA:HB2	1:A:509:PRO:HB2	1.50	0.92
2:C:182:GLU:O	2:C:186:LEU:N	2.02	0.92
2:D:190:TYR:CA	2:D:193:ILE:HD12	1.98	0.92
1:A:374:ARG:O	1:A:377:ILE:CG1	2.08	0.92
1:A:420:SER:CB	1:A:423:GLN:HB3	1.99	0.92
1:E:104:ILE:HG23	1:E:129:ILE:CD1	2.00	0.92
2:F:336:HIS:O	2:F:340:VAL:HG23	1.69	0.92
1:B:232:ILE:HG13	1:B:264:LEU:HD23	0.96	0.92
1:B:595:GLU:CB	2:D:158:TYR:CE1	2.52	0.92
2:D:271:LEU:O	2:D:274:SER:OG	1.85	0.92
2:D:410:HIS:CD2	2:D:413:TRP:HD1	1.88	0.92
1:A:579:PHE:CE2	1:A:581:ARG:CB	2.52	0.92
1:E:85:GLN:CB	1:E:131:ALA:HB2	1.99	0.92
1:E:416:GLY:HA3	3:E:723:HOH:O	1.70	0.92
2:F:40:TYR:CE1	2:F:67:PHE:CE2	2.56	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:234:MET:CE	2:F:271:LEU:CD1	2.45	0.92
1:E:430:MET:HE1	1:E:568:TRP:HE3	1.35	0.92
1:E:531:SER:HG	2:F:418:PHE:HA	1.25	0.92
2:C:65:HIS:ND1	2:C:94:ARG:CZ	2.32	0.92
2:C:135:ASP:O	2:D:94:ARG:NH1	2.03	0.92
1:E:444:GLN:NE2	1:E:445:PRO:O	2.03	0.92
2:F:40:TYR:CZ	2:F:67:PHE:CE2	2.57	0.92
1:B:104:ILE:N	1:B:107:VAL:O	2.02	0.92
2:C:182:GLU:O	2:C:186:LEU:CB	2.18	0.92
1:B:486:ILE:HD11	1:B:564:ASP:O	1.70	0.92
1:E:224:LYS:HG3	1:E:228:TRP:CE3	2.05	0.92
1:E:487:VAL:O	1:E:526:LEU:CD2	2.17	0.92
1:B:250:ILE:HD13	1:B:373:THR:CG2	1.80	0.91
1:B:528:LEU:HD12	3:B:704:HOH:O	1.70	0.91
2:D:357:LYS:HA	2:D:360:ILE:CD1	2.00	0.91
2:F:331:LEU:HD23	2:F:343:LEU:HD21	1.52	0.91
2:C:305:GLN:HA	2:C:308:ILE:HD12	1.52	0.91
1:A:492:VAL:O	1:A:554:GLU:HA	1.67	0.91
1:A:570:ILE:CG2	3:A:734:HOH:O	2.17	0.91
2:F:259:PHE:HZ	2:F:268:PRO:HA	1.33	0.91
1:A:63:PHE:CZ	1:A:214:THR:HG23	2.05	0.91
1:A:125:SER:HB2	1:A:222:VAL:CG2	1.99	0.91
2:F:234:MET:HE3	2:F:271:LEU:HD11	0.93	0.91
1:A:524:PHE:HD2	1:A:525:ARG:H	1.19	0.91
2:F:325:SER:HA	2:F:328:ILE:HD13	1.52	0.91
1:B:122:SER:OG	1:B:182:LEU:HD23	1.69	0.91
1:B:257:LYS:O	1:B:260:PHE:N	2.02	0.91
1:B:484:ALA:HB3	1:B:585:TYR:CE2	2.06	0.91
2:D:154:VAL:HG23	2:D:159:TRP:HD1	1.34	0.91
1:A:72:TYR:HD2	1:A:208:TYR:HH	1.08	0.91
1:E:100:GLY:O	1:E:111:SER:OG	1.89	0.91
2:F:10:TRP:HA	2:F:50:TYR:CE2	2.04	0.91
2:C:305:GLN:HA	2:C:308:ILE:CD1	1.99	0.91
2:D:125:PHE:CZ	2:D:150:ALA:HB2	2.05	0.91
2:D:342:LEU:O	2:D:346:LEU:HG	1.71	0.91
1:E:364:TRP:CB	1:E:369:GLY:HA3	1.99	0.91
2:F:186:LEU:CD1	2:F:224:HIS:NE2	2.34	0.91
2:D:60:LEU:O	2:D:63:THR:OG1	1.88	0.91
2:D:93:ILE:HD11	2:D:132:ALA:CB	1.99	0.91
1:B:368:TYR:HB2	2:C:124:LEU:CD2	2.01	0.91
2:C:225:ALA:HA	2:C:227:MET:SD	2.10	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:451:PRO:HG2	2:F:413:TRP:CZ3	2.06	0.91
1:E:524:PHE:CD2	1:E:525:ARG:HB2	2.05	0.91
1:B:167:THR:HA	1:B:439:PHE:O	1.70	0.91
2:C:18:TYR:CE2	2:C:22:LEU:HD12	2.06	0.91
2:C:137:LEU:HB2	2:D:94:ARG:HH21	1.35	0.91
1:E:435:LYS:HE2	1:E:545:GLN:NE2	1.84	0.91
2:C:215:TRP:HA	2:C:218:ILE:CD1	2.00	0.91
2:D:63:THR:CG2	2:D:159:TRP:HE1	1.83	0.91
2:D:357:LYS:CA	2:D:360:ILE:HD12	2.00	0.91
1:A:111:SER:N	1:A:140:LEU:CB	2.34	0.91
1:B:81:LEU:HD22	1:B:87:LEU:HD11	1.51	0.90
1:B:492:VAL:N	1:B:557:ILE:CD1	2.34	0.90
1:E:446:LEU:CD1	1:E:528:LEU:CD2	2.49	0.90
1:B:119:ILE:H	1:B:307:GLY:HA3	1.34	0.90
1:B:564:ASP:OD1	3:B:703:HOH:O	1.88	0.90
1:A:368:TYR:HE1	1:A:372:LEU:CD2	1.83	0.90
1:E:318:THR:HG22	1:E:319:GLN:CG	2.00	0.90
2:F:23:PHE:CE2	2:F:43:ALA:CB	2.55	0.90
1:E:253:LYS:HG2	3:E:708:HOH:O	1.72	0.90
1:B:63:PHE:CB	1:B:88:ILE:HD13	1.98	0.90
1:A:90:LYS:HD2	1:A:213:ILE:HD11	1.54	0.90
1:A:182:LEU:HD13	1:A:183:PHE:CE2	2.06	0.90
1:E:299:SER:HB3	1:E:317:SER:CA	2.00	0.90
2:F:122:PRO:HG2	2:F:125:PHE:HE2	1.24	0.90
2:D:125:PHE:CZ	2:D:150:ALA:CA	2.55	0.90
2:D:134:HIS:C	2:D:135:ASP:OD1	2.10	0.90
1:A:224:LYS:HG2	1:A:228:TRP:CE3	2.02	0.90
1:A:572:SER:O	1:A:575:ILE:HD13	1.59	0.90
1:E:225:HIS:O	1:E:229:MET:N	2.04	0.90
1:B:468:LEU:CD2	1:B:559:VAL:HG11	2.01	0.90
1:A:119:ILE:HG12	1:A:309:HIS:CE1	2.06	0.90
1:E:103:ASP:OD1	1:E:130:GLN:CB	2.18	0.90
1:E:281:MET:CG	1:E:342:LEU:CD2	2.49	0.90
2:F:197:ASN:OD1	2:F:198:ILE:N	2.04	0.90
1:B:279:ASN:ND2	1:B:300:LYS:NZ	2.14	0.90
2:C:213:GLU:O	2:C:217:CYS:SG	2.30	0.90
2:F:245:TRP:O	2:F:248:LEU:HD21	1.70	0.90
1:B:368:TYR:HB2	2:C:124:LEU:HD22	1.52	0.90
2:D:331:LEU:HD23	2:D:346:LEU:CG	2.01	0.90
2:D:331:LEU:CD2	2:D:346:LEU:HB2	2.00	0.90
1:A:63:PHE:HZ	1:A:214:THR:HG23	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:213:GLU:N	2:F:213:GLU:OE2	2.03	0.90
1:B:68:ASP:HA	3:B:712:HOH:O	1.70	0.90
1:B:117:LYS:CD	1:B:439:PHE:CE1	2.53	0.90
2:C:36:LEU:CG	2:C:40:TYR:HE1	1.83	0.90
1:A:465:LEU:HD13	1:A:482:ILE:CG2	2.01	0.90
1:A:482:ILE:CD1	1:A:532:ILE:HG21	2.02	0.90
2:C:260:ILE:HG21	2:C:315:GLN:HE22	1.35	0.89
2:D:331:LEU:HB3	2:D:343:LEU:HD22	1.53	0.89
1:A:312:LEU:HD13	1:A:441:PHE:HE1	1.35	0.89
1:E:169:LEU:HD11	1:E:183:PHE:CE1	1.92	0.89
1:E:232:ILE:HD12	1:E:264:LEU:CD2	1.93	0.89
2:F:116:ALA:HA	2:F:119:ILE:CD1	2.02	0.89
2:D:268:PRO:HA	2:D:271:LEU:CD1	2.02	0.89
1:A:358:LEU:CD1	1:A:359:ILE:N	2.35	0.89
1:E:281:MET:SD	1:E:342:LEU:CD2	2.61	0.89
2:C:414:THR:O	2:C:416:LYS:HD2	1.73	0.89
1:A:184:TRP:HH2	1:A:211:TYR:HD2	1.18	0.89
1:A:325:PHE:CB	1:A:330:ASP:CB	2.50	0.89
2:F:15:GLU:O	2:F:19:LEU:N	2.04	0.89
2:F:112:LEU:O	2:F:116:ALA:HB2	1.72	0.89
1:B:250:ILE:HG23	1:B:365:ILE:HD11	0.91	0.89
1:B:250:ILE:HD13	1:B:373:THR:HG21	0.89	0.89
2:C:9:PRO:HG2	2:C:10:TRP:CE3	2.07	0.89
1:A:420:SER:O	1:A:424:LEU:N	2.06	0.89
1:A:540:ASN:C	1:A:541:LEU:HD23	1.92	0.89
2:F:235:ILE:HA	2:F:238:ILE:CD1	2.03	0.89
2:C:271:LEU:HD11	2:C:275:MET:CE	2.03	0.89
1:A:226:LYS:O	1:A:230:ASP:HB2	1.73	0.89
1:A:368:TYR:HE1	1:A:372:LEU:HD21	1.37	0.89
1:E:486:ILE:HD12	1:E:564:ASP:O	1.73	0.89
2:F:111:PRO:CG	2:F:114:LEU:HG	2.02	0.89
2:F:331:LEU:HG	2:F:343:LEU:HD21	0.89	0.89
2:C:10:TRP:CD1	2:C:13:SER:HA	2.07	0.89
2:C:148:ASP:HA	2:C:151:ILE:CG2	2.03	0.89
1:E:225:HIS:O	1:E:228:TRP:HB3	1.73	0.89
1:E:226:LYS:HA	1:E:229:MET:HB3	1.55	0.89
1:B:490:PHE:CB	1:B:557:ILE:HB	2.01	0.88
1:A:176:CYS:SG	1:A:179:PHE:HD1	1.96	0.88
1:A:350:GLY:CA	1:A:357:LEU:CD1	2.46	0.88
1:E:299:SER:CA	1:E:317:SER:HB2	2.01	0.88
1:E:321:HIS:HE1	1:E:522:GLU:OE1	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:524:PHE:HE2	1:E:543:ILE:CD1	1.85	0.88
1:A:531:SER:OG	1:A:540:ASN:ND2	2.06	0.88
2:F:24:PHE:HE1	2:F:155:TRP:CB	1.84	0.88
1:B:308:ASN:O	1:B:308:ASN:ND2	2.05	0.88
1:B:350:GLY:HA2	1:B:357:LEU:CD1	2.03	0.88
1:B:454:VAL:HG11	2:D:407:PHE:HE1	1.07	0.88
2:C:214:TYR:O	2:C:218:ILE:HG13	1.72	0.88
2:C:258:HIS:HD2	2:C:262:LEU:HD12	1.37	0.88
1:A:252:GLY:O	1:A:255:SER:OG	1.89	0.88
1:A:365:ILE:O	1:A:393:LEU:HD22	1.70	0.88
1:A:483:GLU:OE1	1:A:531:SER:CA	2.21	0.88
1:E:125:SER:CB	1:E:220:VAL:CB	2.51	0.88
1:E:351:GLU:OE1	1:E:351:GLU:N	2.06	0.88
1:B:334:ARG:HG3	1:B:513:TYR:OH	1.72	0.88
1:B:466:THR:HB	1:B:511:LEU:HB3	1.53	0.88
2:C:11:LYS:CA	1:A:585:TYR:CE2	2.53	0.88
2:C:40:TYR:CE2	2:C:67:PHE:CD1	2.61	0.88
1:A:464:ALA:HB2	1:A:509:PRO:CB	2.03	0.88
1:E:363:GLY:CA	3:E:708:HOH:O	2.21	0.88
1:E:451:PRO:CG	2:F:413:TRP:CZ2	2.55	0.88
1:E:451:PRO:CG	2:F:413:TRP:CH2	2.57	0.88
2:D:322:VAL:O	2:D:325:SER:OG	1.91	0.88
2:D:331:LEU:HB3	2:D:343:LEU:CD2	2.04	0.88
1:A:465:LEU:CD1	1:A:482:ILE:CG2	2.51	0.88
1:E:264:LEU:CD1	1:E:358:LEU:HD11	2.04	0.88
2:F:420:VAL:C	2:F:421:ILE:HG12	1.93	0.88
1:B:186:PHE:HB2	1:B:207:ASP:OD1	1.74	0.88
1:B:490:PHE:HB2	1:B:557:ILE:CB	2.01	0.88
2:F:245:TRP:O	2:F:248:LEU:CD2	2.21	0.88
2:F:279:ASN:ND2	2:F:308:ILE:HD11	1.87	0.88
1:E:325:PHE:CE1	1:E:468:LEU:CD1	2.52	0.88
2:F:280:TYR:CA	2:F:338:LEU:CD2	2.51	0.88
1:A:184:TRP:HZ2	1:A:211:TYR:CD2	1.89	0.88
1:A:226:LYS:O	1:A:230:ASP:N	2.06	0.88
1:E:456:TYR:CB	1:E:537:LYS:O	2.22	0.88
2:C:11:LYS:CA	1:A:585:TYR:HD2	1.75	0.88
1:E:430:MET:CE	1:E:568:TRP:HE3	1.86	0.88
1:E:546:PHE:CE2	1:E:548:THR:HA	2.08	0.88
2:F:12:SER:HB3	2:F:14:ASP:OD1	1.74	0.88
1:A:117:LYS:HD3	1:A:439:PHE:HE2	1.19	0.87
1:E:588:PHE:HA	2:F:5:PRO:HA	1.57	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:343:LEU:O	2:D:347:GLN:N	2.08	0.87
1:A:172:ILE:HG21	1:A:179:PHE:CG	2.10	0.87
1:E:86:ASN:O	1:E:87:LEU:HD23	1.74	0.87
1:E:499:GLU:O	1:E:515:GLU:OE1	1.91	0.87
1:A:468:LEU:CD2	1:A:559:VAL:CG1	2.48	0.87
1:A:483:GLU:OE1	1:A:532:ILE:N	2.07	0.87
2:F:111:PRO:CB	2:F:113:HIS:HE1	1.85	0.87
2:C:42:GLU:O	2:C:46:LEU:HD11	1.75	0.87
1:A:446:LEU:O	1:A:542:TYR:CE2	2.27	0.87
2:C:32:SER:O	2:C:36:LEU:N	2.07	0.87
1:E:318:THR:C	1:E:319:GLN:HG3	1.94	0.87
2:F:141:GLU:HA	2:F:144:LYS:HG3	1.57	0.87
1:A:232:ILE:HD13	1:A:264:LEU:HB2	1.55	0.87
1:A:389:ASN:HD21	1:A:408:LEU:HB3	1.32	0.87
2:C:148:ASP:CA	2:C:151:ILE:HG22	2.05	0.87
2:C:258:HIS:HD2	2:C:262:LEU:CD1	1.50	0.87
1:A:231:VAL:O	1:A:235:LEU:HD23	1.75	0.87
1:A:296:ILE:HG22	1:A:342:LEU:HD21	1.55	0.87
1:A:358:LEU:CD1	1:A:359:ILE:H	1.86	0.87
1:E:92:GLN:O	1:E:209:THR:HG23	1.74	0.87
1:E:281:MET:HG3	1:E:342:LEU:HD21	1.55	0.87
1:B:223:ILE:HG22	3:B:721:HOH:O	1.61	0.87
1:A:394:GLY:HA3	3:A:717:HOH:O	1.74	0.87
1:A:466:THR:HB	1:A:511:LEU:HD23	0.87	0.87
1:B:491:LYS:N	1:B:557:ILE:HD12	1.90	0.87
2:C:215:TRP:CA	2:C:218:ILE:HD12	2.05	0.87
2:D:49:MET:SD	2:D:53:ARG:NH1	2.46	0.87
1:A:182:LEU:HD13	1:A:183:PHE:HE2	1.40	0.87
1:A:213:ILE:HD13	1:A:219:THR:HG21	1.57	0.87
1:E:184:TRP:CZ3	1:E:211:TYR:HB3	2.08	0.87
1:E:440:LYS:NZ	1:E:440:LYS:HB2	1.88	0.87
1:E:571:ALA:CB	1:E:586:ILE:CD1	2.50	0.87
1:B:111:SER:CB	1:B:142:ASN:CA	2.49	0.86
2:F:353:ASP:O	2:F:357:LYS:HG3	1.75	0.86
1:B:486:ILE:HG23	1:B:565:LEU:HG	1.55	0.86
2:C:232:ASN:O	2:C:235:ILE:HD12	1.75	0.86
1:A:312:LEU:HD13	1:A:441:PHE:CE1	2.09	0.86
1:B:104:ILE:HD12	1:B:107:VAL:HG23	1.54	0.86
2:C:271:LEU:CD1	2:C:275:MET:HE2	2.05	0.86
1:B:285:PRO:O	1:B:288:PRO:HD3	1.75	0.86
2:F:122:PRO:HD2	2:F:125:PHE:CD2	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:322:TYR:O	1:B:334:ARG:NH1	2.08	0.86
1:B:465:LEU:CD1	1:B:482:ILE:HG21	2.05	0.86
2:C:11:LYS:HG3	1:A:585:TYR:CE2	2.06	0.86
1:E:524:PHE:HZ	1:E:546:PHE:HB2	1.39	0.86
1:B:76:TYR:HB2	1:B:162:LEU:O	1.76	0.86
1:B:232:ILE:CG1	1:B:264:LEU:CD2	2.52	0.86
1:A:63:PHE:HE1	1:A:212:PRO:HB3	1.36	0.86
1:E:184:TRP:CZ3	1:E:211:TYR:CD2	2.63	0.86
2:F:122:PRO:HD2	2:F:125:PHE:HD2	1.38	0.86
1:B:118:PHE:O	1:B:119:ILE:HD13	1.74	0.86
1:B:180:LYS:CE	1:B:181:ASN:HB2	2.05	0.86
1:B:328:PRO:HB3	1:B:335:TYR:HE2	1.39	0.86
2:C:96:VAL:O	2:C:99:LEU:HD12	1.74	0.86
1:E:99:ARG:C	1:E:142:ASN:ND2	2.27	0.86
1:B:383:THR:CG2	1:B:384:HIS:CD2	2.58	0.86
1:A:401:LYS:HA	1:A:401:LYS:NZ	1.90	0.86
1:E:370:LEU:CD2	1:E:397:ILE:HD13	1.91	0.86
1:E:454:VAL:CG2	1:E:539:MET:O	2.19	0.86
2:F:420:VAL:O	2:F:421:ILE:HG12	1.75	0.86
1:B:63:PHE:CA	1:B:88:ILE:HD11	2.03	0.86
1:B:240:SER:HA	1:B:274:GLN:HG3	1.56	0.86
1:A:63:PHE:HZ	1:A:212:PRO:HB2	1.39	0.86
1:B:172:ILE:HD11	1:B:179:PHE:C	1.95	0.86
1:A:388:LEU:C	1:A:389:ASN:OD1	2.15	0.86
1:B:531:SER:O	1:B:532:ILE:HD13	1.74	0.85
2:C:53:ARG:HG2	2:C:53:ARG:HH11	1.40	0.85
1:A:430:MET:HG2	1:A:566:PRO:HG3	1.55	0.85
1:B:77:VAL:CG1	1:B:79:PHE:CZ	2.58	0.85
2:C:8:THR:CG2	1:A:587:THR:HG23	2.05	0.85
2:C:218:ILE:HG12	2:C:255:MET:CE	2.03	0.85
2:C:275:MET:O	2:C:279:ASN:N	2.07	0.85
1:E:437:ASP:HB3	1:E:440:LYS:HZ2	1.41	0.85
2:F:111:PRO:HG2	2:F:114:LEU:CB	2.06	0.85
1:B:118:PHE:HE1	1:B:306:HIS:HB3	1.04	0.85
1:B:368:TYR:HE1	1:B:372:LEU:CG	1.89	0.85
2:D:69:ALA:HA	2:D:72:MET:HG3	1.58	0.85
1:E:250:ILE:HD12	1:E:373:THR:HG21	1.57	0.85
1:B:346:TYR:O	1:B:350:GLY:N	2.08	0.85
1:A:382:PRO:HB3	1:A:385:VAL:CG2	2.06	0.85
1:B:290:TYR:HA	1:B:311:SER:OG	1.76	0.85
1:B:455:SER:N	2:D:405:LYS:CB	2.39	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:331:LEU:HD23	2:D:346:LEU:HD13	0.86	0.85
1:A:172:ILE:CD1	1:A:183:PHE:HE2	1.89	0.85
1:E:121:PRO:HB2	1:E:182:LEU:HD22	1.59	0.85
1:E:411:SER:HB2	3:E:716:HOH:O	1.75	0.85
1:B:598:TRP:CE2	2:D:98:GLY:HA2	2.12	0.85
2:C:279:ASN:HD21	2:C:308:ILE:HD11	1.39	0.85
1:E:337:LEU:HD12	1:E:337:LEU:O	1.77	0.85
1:E:411:SER:CB	3:E:716:HOH:O	2.24	0.85
2:C:177:GLU:OE1	2:C:180:ILE:HG21	1.75	0.85
2:C:258:HIS:CD2	2:C:262:LEU:HD12	2.09	0.85
1:A:436:ILE:HG21	1:A:440:LYS:HB3	1.59	0.85
1:E:103:ASP:OD1	1:E:132:THR:OG1	1.95	0.85
2:F:331:LEU:HD23	2:F:343:LEU:CD2	2.01	0.85
1:A:100:GLY:HA3	1:A:158:SER:HB3	1.57	0.85
1:A:370:LEU:HD12	1:A:370:LEU:O	1.77	0.85
1:B:288:PRO:HB2	1:B:291:SER:HB2	1.57	0.85
2:D:273:ASP:O	2:D:276:LEU:HG	1.77	0.85
1:A:117:LYS:CE	1:A:439:PHE:HE2	1.90	0.85
1:A:213:ILE:CD1	1:A:219:THR:HG21	2.07	0.85
1:A:388:LEU:O	1:A:389:ASN:OD1	1.95	0.85
1:A:464:ALA:HB1	1:A:509:PRO:HB2	1.58	0.85
1:B:81:LEU:CD2	1:B:160:ILE:HD11	2.06	0.85
1:B:543:ILE:HD11	1:B:546:PHE:CG	2.12	0.85
2:C:153:TRP:CZ2	2:C:157:HIS:CD2	2.65	0.85
2:D:116:ALA:HA	2:D:119:ILE:CG2	2.04	0.85
1:A:63:PHE:CZ	1:A:214:THR:CG2	2.60	0.85
1:A:125:SER:CB	1:A:222:VAL:CG2	2.54	0.85
1:A:165:LEU:HD12	1:A:167:THR:CG2	2.06	0.85
2:F:235:ILE:O	2:F:239:VAL:HG23	1.77	0.85
2:F:279:ASN:OD1	2:F:301:PHE:HE1	1.50	0.85
2:C:40:TYR:CE2	2:C:67:PHE:HD1	1.93	0.84
2:C:65:HIS:CG	2:C:94:ARG:HH21	1.93	0.84
1:A:466:THR:HB	1:A:511:LEU:HD22	1.57	0.84
1:A:539:MET:HG3	1:A:541:LEU:HD21	1.59	0.84
1:B:504:ASN:O	1:B:509:PRO:HA	1.78	0.84
1:B:547:ARG:O	1:B:548:THR:OG1	1.95	0.84
2:C:410:HIS:CA	1:A:453:GLN:OE1	2.25	0.84
1:A:479:GLU:O	1:A:482:ILE:HG13	1.77	0.84
1:E:104:ILE:O	1:E:107:VAL:HG22	1.77	0.84
2:F:259:PHE:HE1	2:F:267:PHE:HB2	1.40	0.84
2:C:214:TYR:HA	2:C:217:CYS:SG	2.18	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:28:ARG:O	2:D:31:ILE:HD11	1.77	0.84
1:A:486:ILE:CD1	1:A:564:ASP:O	2.25	0.84
2:D:58:HIS:CE1	2:D:98:GLY:CA	2.49	0.84
1:B:290:TYR:H	1:B:311:SER:HG	1.23	0.84
1:B:325:PHE:CE2	1:B:330:ASP:CB	2.60	0.84
1:B:468:LEU:HD11	1:B:560:ARG:C	1.97	0.84
1:A:95:LEU:HB3	1:A:162:LEU:HB3	1.56	0.84
1:A:172:ILE:CD1	1:A:183:PHE:CE2	2.60	0.84
2:F:137:LEU:HD12	2:F:138:PRO:HD2	1.57	0.84
2:C:98:GLY:O	2:C:102:PRO:HD3	1.78	0.84
1:B:494:ARG:CB	1:B:553:LYS:O	2.26	0.84
2:C:142:MET:HA	2:C:142:MET:HE3	1.59	0.84
2:C:150:ALA:O	3:C:501:HOH:O	1.95	0.84
2:D:155:TRP:HA	2:D:159:TRP:HB2	1.59	0.84
1:E:453:GLN:O	2:F:407:PHE:N	2.10	0.84
2:F:67:PHE:O	2:F:71:MET:HG3	1.76	0.84
2:C:125:PHE:CZ	2:C:150:ALA:HA	2.11	0.84
1:A:444:GLN:O	1:A:444:GLN:NE2	2.11	0.84
2:F:116:ALA:O	2:F:119:ILE:HD12	1.77	0.84
1:B:538:ILE:HG12	2:D:405:LYS:CB	2.07	0.84
2:C:88:ALA:CB	3:C:502:HOH:O	2.02	0.84
1:A:100:GLY:HA3	1:A:158:SER:CB	2.07	0.84
1:B:110:HIS:O	1:B:113:VAL:HG12	1.76	0.83
2:C:128:PHE:HE2	2:C:138:PRO:HG2	1.37	0.83
1:A:594:LEU:HD12	1:A:594:LEU:O	1.78	0.83
1:E:184:TRP:HZ3	1:E:211:TYR:CD2	1.95	0.83
1:E:228:TRP:HZ3	1:E:263:LEU:CD2	1.91	0.83
2:F:268:PRO:O	2:F:272:ILE:HG13	1.77	0.83
2:D:24:PHE:HE1	2:D:67:PHE:HZ	0.90	0.83
1:E:325:PHE:CZ	1:E:468:LEU:HD13	2.13	0.83
1:E:366:LYS:HB2	1:E:393:LEU:HD11	1.61	0.83
2:F:110:ILE:CD1	2:F:115:LEU:HD12	2.05	0.83
1:B:104:ILE:HD13	1:B:109:TYR:HE2	1.43	0.83
2:D:350:PHE:O	2:D:351:SER:OG	1.96	0.83
1:A:483:GLU:CD	1:A:532:ILE:HD13	1.98	0.83
2:F:273:ASP:CG	2:F:330:THR:HG21	1.97	0.83
2:C:58:HIS:HB3	1:A:596:LYS:O	1.78	0.83
1:A:468:LEU:HD21	1:A:559:VAL:HG11	1.60	0.83
2:F:10:TRP:HA	2:F:50:TYR:HE2	1.39	0.83
1:B:598:TRP:CZ3	2:D:98:GLY:HA3	2.13	0.83
1:A:170:GLU:CD	1:A:185:GLN:HE21	1.81	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:539:MET:O	1:A:541:LEU:CD2	2.26	0.83
2:F:193:ILE:HA	2:F:196:GLN:OE1	1.78	0.83
1:B:122:SER:H	1:B:182:LEU:CD2	1.91	0.83
2:D:92:ILE:CD1	2:D:146:CYS:HB3	2.09	0.83
1:E:279:ASN:HB2	1:E:356:SER:O	1.76	0.83
2:F:273:ASP:CG	3:F:502:HOH:O	2.17	0.83
1:B:104:ILE:HD12	1:B:107:VAL:O	1.79	0.83
1:E:524:PHE:CE2	1:E:543:ILE:HD11	2.08	0.83
2:F:27:ASP:O	2:F:31:ILE:HG22	1.79	0.83
2:F:90:MET:HA	2:F:93:ILE:HD12	1.61	0.83
2:F:223:ASP:OD2	3:F:501:HOH:O	1.94	0.83
1:B:104:ILE:CD1	1:B:109:TYR:HE2	1.90	0.83
1:A:296:ILE:HG22	1:A:342:LEU:CD2	2.08	0.83
1:A:454:VAL:O	1:A:538:ILE:HA	1.79	0.83
1:E:77:VAL:CG1	1:E:79:PHE:CZ	2.62	0.83
1:E:225:HIS:HB2	1:E:228:TRP:CB	2.08	0.83
2:F:70:LEU:HD12	2:F:70:LEU:O	1.79	0.83
1:B:379:ARG:O	1:B:379:ARG:HD3	1.79	0.83
2:C:142:MET:HA	2:C:142:MET:CE	2.09	0.83
2:D:268:PRO:O	2:D:271:LEU:HD12	1.78	0.83
2:D:355:VAL:HA	2:D:358:ASP:OD2	1.79	0.83
1:A:92:GLN:NE2	1:A:183:PHE:HB3	1.94	0.83
1:A:478:LEU:HD12	1:A:510:LEU:HD13	1.57	0.83
1:E:172:ILE:HD11	1:E:182:LEU:HB2	1.61	0.83
1:A:224:LYS:HG3	1:A:228:TRP:CZ3	2.14	0.83
1:E:588:PHE:CB	2:F:5:PRO:CB	2.46	0.83
1:B:77:VAL:O	1:B:162:LEU:HB2	1.79	0.82
1:A:167:THR:HG23	1:A:169:LEU:H	1.43	0.82
1:A:382:PRO:HB3	1:A:385:VAL:HG23	1.60	0.82
2:F:272:ILE:HD13	2:F:315:GLN:CD	2.00	0.82
1:A:94:VAL:O	1:A:162:LEU:CB	2.24	0.82
1:A:210:PHE:HD1	1:A:210:PHE:H	1.27	0.82
1:E:455:SER:OG	1:E:462:ILE:N	2.11	0.82
1:E:466:THR:CG2	1:E:516:PHE:CD2	2.62	0.82
2:F:237:ARG:HA	2:F:240:SER:CB	2.09	0.82
1:A:224:LYS:CG	1:A:228:TRP:CZ3	2.63	0.82
1:A:334:ARG:CG	1:A:513:TYR:OH	2.26	0.82
1:A:483:GLU:OE1	1:A:532:ILE:HD13	1.79	0.82
1:E:233:LYS:HZ1	1:E:237:GLU:CB	1.92	0.82
2:C:140:LEU:O	2:C:140:LEU:HD12	1.78	0.82
2:C:305:GLN:O	2:C:308:ILE:HB	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:382:PRO:HG2	1:A:401:LYS:HZ1	1.42	0.82
1:A:399:ILE:O	1:A:401:LYS:CB	2.22	0.82
1:A:507:GLN:O	1:A:508:LEU:HD22	1.77	0.82
2:F:247:HIS:H	2:F:247:HIS:CD2	1.94	0.82
1:B:77:VAL:HG12	1:B:79:PHE:CZ	2.14	0.82
1:B:93:PHE:CD2	1:B:162:LEU:HD22	2.14	0.82
1:B:117:LYS:HD3	1:B:439:PHE:HE1	1.42	0.82
1:A:327:SER:OG	1:A:329:LYS:HE3	1.78	0.82
2:F:316:ILE:CD1	2:F:346:LEU:HD23	2.09	0.82
2:F:354:PRO:HD2	2:F:355:VAL:N	1.90	0.82
1:B:107:VAL:HG21	1:B:266:GLN:HE21	1.44	0.82
1:B:595:GLU:CB	2:D:158:TYR:CZ	2.63	0.82
1:A:165:LEU:HD12	1:A:167:THR:H	1.41	0.82
1:A:524:PHE:CD2	1:A:525:ARG:HG2	2.14	0.82
2:F:307:TRP:O	2:F:311:LEU:HG	1.79	0.82
1:B:503:PHE:N	1:B:510:LEU:O	2.12	0.82
2:C:81:ASP:O	2:C:85:ARG:HG3	1.80	0.82
2:C:99:LEU:HD13	2:C:121:LEU:HD21	1.62	0.82
1:A:305:GLN:OE1	1:A:313:THR:HB	1.79	0.82
1:E:416:GLY:CA	3:E:723:HOH:O	2.26	0.82
2:C:40:TYR:CD2	2:C:67:PHE:HD1	1.97	0.82
2:C:96:VAL:HA	2:C:99:LEU:CD1	2.09	0.82
2:D:269:LEU:HA	2:D:272:ILE:CD1	2.10	0.82
1:A:508:LEU:HD12	1:A:509:PRO:CD	2.09	0.82
1:E:77:VAL:CG1	1:E:79:PHE:CE2	2.63	0.82
2:F:252:PHE:CD1	2:F:307:TRP:HZ2	1.83	0.82
2:C:417:PRO:O	2:C:419:GLY:N	2.12	0.82
1:B:77:VAL:HG11	1:B:79:PHE:CE2	2.14	0.82
1:B:383:THR:HG22	1:B:384:HIS:NE2	1.93	0.82
1:A:433:PHE:CE1	1:A:528:LEU:HB2	2.15	0.82
1:A:533:ASP:OD1	1:A:536:LYS:N	2.13	0.82
1:E:433:PHE:HA	1:E:544:PRO:CB	2.03	0.82
1:E:496:HIS:O	1:E:499:GLU:CB	2.27	0.82
1:E:589:GLU:N	1:E:589:GLU:OE2	2.13	0.82
2:F:356:ILE:O	2:F:360:ILE:HG13	1.80	0.82
1:B:118:PHE:HD1	1:B:306:HIS:O	1.63	0.81
2:C:182:GLU:O	2:C:186:LEU:HG	1.79	0.81
2:D:249:ARG:O	2:D:253:GLU:N	2.13	0.81
2:D:269:LEU:O	2:D:272:ILE:HD12	1.80	0.81
1:A:165:LEU:HD12	1:A:167:THR:HG22	1.61	0.81
2:C:53:ARG:HD3	1:A:485:THR:HG22	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:299:SER:CA	1:E:317:SER:CB	2.59	0.81
1:B:103:ASP:HA	1:B:107:VAL:O	1.80	0.81
1:B:468:LEU:HD12	1:B:560:ARG:O	1.80	0.81
1:A:104:ILE:O	1:A:107:VAL:HG22	1.79	0.81
1:A:325:PHE:CE2	1:A:562:ASN:HB2	2.15	0.81
1:A:511:LEU:HD23	1:A:511:LEU:O	1.80	0.81
1:A:565:LEU:HD22	1:A:570:ILE:HG13	1.62	0.81
2:C:235:ILE:CD1	2:C:278:LYS:HE3	1.84	0.81
1:A:170:GLU:OE1	1:A:185:GLN:NE2	2.12	0.81
1:A:223:ILE:C	1:A:224:LYS:HD2	2.01	0.81
1:A:520:SER:O	1:A:521:THR:HG23	1.80	0.81
1:E:593:SER:CB	1:E:594:LEU:HA	2.06	0.81
1:B:110:HIS:CB	1:B:140:LEU:CB	2.58	0.81
1:B:511:LEU:HD23	1:B:512:PRO:HD2	1.60	0.81
1:A:172:ILE:CG2	1:A:179:PHE:CG	2.63	0.81
2:F:237:ARG:HA	2:F:237:ARG:HE	1.44	0.81
1:A:551:LEU:O	3:A:703:HOH:O	1.98	0.81
1:E:225:HIS:CG	1:E:228:TRP:HB2	2.15	0.81
1:E:430:MET:CE	1:E:568:TRP:CE3	2.64	0.81
2:F:23:PHE:HE2	2:F:43:ALA:HB1	1.44	0.81
1:B:64:SER:OG	1:B:86:ASN:CA	2.27	0.81
1:B:368:TYR:HE1	1:B:372:LEU:HG	1.42	0.81
1:A:63:PHE:HB3	1:A:88:ILE:HG12	1.62	0.81
1:A:81:LEU:CD2	1:A:131:ALA:HB2	2.07	0.81
1:A:176:CYS:SG	1:A:179:PHE:CD1	2.73	0.81
1:A:184:TRP:CE2	1:A:211:TYR:HB2	2.15	0.81
1:A:280:PHE:HE2	1:A:282:ASP:HB2	1.44	0.81
1:A:368:TYR:CD1	1:A:372:LEU:HG	2.15	0.81
1:A:487:VAL:HG21	1:A:558:MET:SD	2.20	0.81
2:C:137:LEU:HD12	2:C:138:PRO:HD2	1.62	0.81
2:C:153:TRP:CZ2	2:C:157:HIS:CE1	2.69	0.81
1:A:63:PHE:CE2	1:A:214:THR:CG2	2.63	0.81
1:A:297:SER:CB	1:A:319:GLN:O	2.28	0.81
1:B:598:TRP:CE3	2:D:98:GLY:HA3	2.16	0.81
2:C:10:TRP:CA	2:C:50:TYR:CE1	2.59	0.81
1:E:347:GLU:O	1:E:351:GLU:HG3	1.81	0.81
1:E:436:ILE:CG2	1:E:440:LYS:HB3	2.11	0.81
2:F:122:PRO:CG	2:F:125:PHE:HE2	1.94	0.81
1:B:84:ASN:CB	3:B:711:HOH:O	2.28	0.81
1:A:350:GLY:HA2	1:A:357:LEU:CD1	2.10	0.81
1:E:224:LYS:HG3	1:E:228:TRP:CD2	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:318:THR:O	1:E:319:GLN:HG3	1.81	0.81
1:B:103:ASP:O	1:B:130:GLN:NE2	2.14	0.80
1:B:310:LEU:HB3	1:B:428:LYS:HG3	1.63	0.80
1:B:326:ASN:HD22	1:B:326:ASN:H	1.29	0.80
2:D:190:TYR:CE2	2:D:218:ILE:CG2	2.63	0.80
2:D:259:PHE:HE1	2:D:268:PRO:HB3	0.99	0.80
1:A:93:PHE:CD2	1:A:162:LEU:HG	2.15	0.80
1:A:583:LEU:CB	1:A:586:ILE:CB	2.59	0.80
1:E:370:LEU:CD1	1:E:397:ILE:HG13	2.07	0.80
1:E:530:HIS:O	2:F:418:PHE:CA	2.29	0.80
2:C:271:LEU:O	2:C:275:MET:HG3	1.81	0.80
2:C:304:ALA:O	2:C:307:TRP:HB2	1.79	0.80
2:C:230:PHE:HA	2:C:233:VAL:HG23	1.64	0.80
2:C:417:PRO:HB2	1:A:584:PRO:CG	2.11	0.80
1:E:169:LEU:HD13	1:E:183:PHE:CZ	2.17	0.80
1:E:232:ILE:O	1:E:236:THR:HG23	1.81	0.80
2:F:272:ILE:CG1	2:F:315:GLN:NE2	2.44	0.80
1:B:368:TYR:CE1	1:B:372:LEU:CG	2.64	0.80
1:B:432:TYR:HD2	1:B:526:LEU:HD13	1.45	0.80
2:C:129:ARG:O	2:C:133:THR:OG1	1.99	0.80
1:E:351:GLU:OE1	1:E:352:LEU:N	2.15	0.80
1:B:490:PHE:C	1:B:557:ILE:HB	2.01	0.80
2:D:331:LEU:HD21	2:D:346:LEU:HB3	0.83	0.80
1:E:155:GLY:HA2	3:E:713:HOH:O	1.46	0.80
2:F:301:PHE:CD1	2:F:304:ALA:HB3	2.16	0.80
1:B:432:TYR:HE2	1:B:526:LEU:HB2	1.46	0.80
2:C:40:TYR:HE2	2:C:67:PHE:CE1	1.98	0.80
2:D:13:SER:O	2:D:16:VAL:HG23	1.81	0.80
1:E:253:LYS:N	3:E:708:HOH:O	2.14	0.80
1:B:598:TRP:CZ2	2:D:98:GLY:HA2	2.17	0.80
1:A:232:ILE:HD11	1:A:264:LEU:HB2	0.80	0.80
1:A:394:GLY:CA	3:A:717:HOH:O	2.29	0.80
1:A:408:LEU:HD22	1:A:409:GLN:N	1.97	0.80
1:E:77:VAL:HG12	1:E:79:PHE:CZ	2.15	0.80
1:E:318:THR:HB	1:E:319:GLN:OE1	1.80	0.80
1:A:72:TYR:OH	1:A:206:SER:CB	2.30	0.80
1:A:382:PRO:HG2	1:A:401:LYS:NZ	1.97	0.80
1:E:435:LYS:CE	1:E:545:GLN:HE22	1.93	0.80
1:E:521:THR:O	1:E:522:GLU:OE2	1.98	0.80
2:C:249:ARG:CB	2:C:307:TRP:HZ2	1.84	0.80
1:A:64:SER:CB	1:A:85:GLN:CB	2.60	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:78:ILE:HA	1:A:161:LYS:CB	2.12	0.80
1:A:398:ASP:CG	1:A:401:LYS:HG2	2.03	0.80
1:E:487:VAL:CG2	1:E:527:ALA:HB3	2.12	0.80
1:B:233:LYS:HE2	1:B:233:LYS:O	1.82	0.79
2:C:182:GLU:O	2:C:186:LEU:CG	2.31	0.79
1:E:299:SER:HA	1:E:317:SER:CA	2.12	0.79
1:A:233:LYS:O	1:A:237:GLU:CD	2.20	0.79
1:A:454:VAL:HG21	1:A:462:ILE:HD12	1.64	0.79
1:B:104:ILE:CG2	1:B:129:ILE:HA	2.11	0.79
1:B:433:PHE:HA	1:B:544:PRO:HB3	1.64	0.79
1:A:329:LYS:HD2	1:A:364:TRP:CH2	2.18	0.79
1:A:389:ASN:CG	1:A:408:LEU:HB3	2.02	0.79
1:A:490:PHE:CZ	1:A:523:PHE:CD1	2.70	0.79
2:F:420:VAL:O	2:F:421:ILE:CG1	2.31	0.79
1:B:231:VAL:O	1:B:235:LEU:HD23	1.83	0.79
1:B:331:GLN:HB3	1:B:334:ARG:CB	2.12	0.79
2:D:28:ARG:O	2:D:31:ILE:CD1	2.30	0.79
1:A:385:VAL:HB	1:A:403:THR:HG23	0.86	0.79
1:E:247:VAL:HG13	1:E:386:ILE:CD1	2.12	0.79
1:E:264:LEU:HD12	1:E:358:LEU:HD11	1.64	0.79
1:B:455:SER:CA	2:D:405:LYS:CB	2.60	0.79
2:D:183:LEU:HD22	2:D:224:HIS:CB	2.05	0.79
1:A:181:ASN:OD1	1:A:187:ASP:CA	2.29	0.79
1:A:565:LEU:HD22	1:A:570:ILE:CG1	2.12	0.79
1:E:104:ILE:O	1:E:266:GLN:NE2	2.14	0.79
1:B:122:SER:H	1:B:182:LEU:HD23	1.46	0.79
1:B:211:TYR:HD1	1:B:212:PRO:HD2	1.48	0.79
1:B:511:LEU:HD23	1:B:512:PRO:CD	2.13	0.79
2:D:256:MET:O	2:D:260:ILE:HG13	1.82	0.79
1:A:483:GLU:OE1	1:A:531:SER:HA	1.81	0.79
1:E:94:VAL:O	1:E:163:THR:N	2.13	0.79
1:E:528:LEU:O	1:E:528:LEU:HD12	1.80	0.79
1:B:77:VAL:CG1	1:B:79:PHE:CE2	2.65	0.79
2:C:36:LEU:HG	2:C:40:TYR:CE1	2.18	0.79
2:C:195:ARG:HG2	2:C:195:ARG:HH11	1.48	0.79
1:A:223:ILE:O	1:A:224:LYS:HD2	1.83	0.79
1:E:392:THR:O	1:E:393:LEU:HD12	1.83	0.79
1:B:318:THR:HG22	1:B:319:GLN:HG3	1.63	0.79
1:A:162:LEU:CD2	1:A:210:PHE:CD2	2.63	0.79
1:E:373:THR:HG22	1:E:377:ILE:HD11	1.63	0.79
1:B:211:TYR:HD1	1:B:212:PRO:CD	1.96	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:331:GLN:O	1:A:335:TYR:N	2.12	0.79
1:A:520:SER:O	1:A:521:THR:CG2	2.31	0.79
1:E:98:GLN:O	1:E:142:ASN:HB3	1.83	0.79
1:B:490:PHE:CA	1:B:557:ILE:HB	2.13	0.78
1:E:77:VAL:HG11	1:E:79:PHE:CE2	2.18	0.78
2:F:111:PRO:HG2	2:F:114:LEU:HG	1.65	0.78
2:F:279:ASN:HD21	2:F:308:ILE:CD1	1.96	0.78
2:C:92:ILE:HD11	2:C:147:VAL:HG22	1.64	0.78
2:C:370:LEU:HA	2:C:373:ASP:OD2	1.82	0.78
2:D:238:ILE:HD12	2:D:238:ILE:O	1.83	0.78
1:A:97:ILE:HG23	1:A:160:ILE:HG22	1.64	0.78
1:A:119:ILE:CG1	1:A:309:HIS:CE1	2.66	0.78
2:F:122:PRO:CG	2:F:125:PHE:CE2	2.65	0.78
2:D:92:ILE:HD13	2:D:146:CYS:HB3	1.65	0.78
2:D:116:ALA:HA	2:D:119:ILE:HG22	1.65	0.78
2:F:10:TRP:HB2	2:F:15:GLU:OE2	1.83	0.78
1:B:536:LYS:O	1:B:537:LYS:HB2	1.82	0.78
2:C:6:ARG:O	1:A:586:ILE:CG2	2.26	0.78
1:A:365:ILE:O	1:A:370:LEU:HB2	1.83	0.78
1:A:385:VAL:HG12	1:A:403:THR:CG2	2.13	0.78
1:A:483:GLU:CD	1:A:532:ILE:HD12	2.03	0.78
2:C:182:GLU:O	2:C:186:LEU:HB2	1.84	0.78
2:D:6:ARG:HH11	2:D:6:ARG:HG3	1.48	0.78
2:D:230:PHE:CB	3:D:510:HOH:O	2.31	0.78
2:F:235:ILE:HA	2:F:238:ILE:HD12	1.65	0.78
1:B:93:PHE:HD2	1:B:162:LEU:HD22	1.47	0.78
1:B:104:ILE:HD13	1:B:107:VAL:HG23	1.63	0.78
2:C:86:LEU:HD23	2:D:90:MET:HG3	1.64	0.78
2:F:179:LEU:HG	2:F:180:ILE:HG13	1.65	0.78
2:F:259:PHE:CZ	2:F:268:PRO:HA	2.18	0.78
1:B:465:LEU:CD1	1:B:482:ILE:CG2	2.62	0.78
1:B:492:VAL:CB	1:B:557:ILE:HD11	2.14	0.78
2:C:36:LEU:CG	2:C:40:TYR:CE1	2.63	0.78
2:C:417:PRO:HB2	1:A:584:PRO:HG2	1.64	0.78
2:D:134:HIS:O	2:D:135:ASP:OD1	2.02	0.78
2:D:410:HIS:HD2	2:D:413:TRP:HD1	1.28	0.78
1:A:71:ILE:HD11	1:A:78:ILE:HB	1.65	0.78
1:A:78:ILE:HG13	1:A:161:LYS:CB	1.91	0.78
1:A:93:PHE:HD2	1:A:162:LEU:HG	1.49	0.78
1:A:227:ASN:O	1:A:231:VAL:N	2.10	0.78
1:E:89:VAL:HG11	1:E:93:PHE:CE1	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:461:GLY:CA	3:F:504:HOH:O	2.27	0.78
2:F:10:TRP:CB	2:F:50:TYR:CE2	2.45	0.78
2:F:33:ARG:CB	2:F:33:ARG:HH21	1.96	0.78
1:E:93:PHE:HB3	1:E:210:PHE:HD1	1.43	0.78
2:C:9:PRO:HB3	2:C:54:THR:HG22	1.66	0.78
2:C:212:LYS:O	2:C:216:THR:HG23	1.84	0.78
2:C:218:ILE:CG1	2:C:255:MET:HE1	2.08	0.78
2:D:154:VAL:HG23	2:D:159:TRP:CD1	2.19	0.78
1:A:63:PHE:CE2	1:A:214:THR:N	2.51	0.78
1:A:313:THR:O	1:A:315:THR:OG1	2.01	0.78
1:A:483:GLU:HA	1:A:529:VAL:CG1	2.12	0.78
1:E:110:HIS:CE1	1:E:137:SER:O	2.37	0.78
2:F:20:LYS:HG3	2:F:159:TRP:HE3	1.49	0.78
2:F:245:TRP:O	2:F:248:LEU:CG	2.32	0.78
2:D:125:PHE:HZ	2:D:150:ALA:CA	1.91	0.77
1:A:583:LEU:CB	1:A:586:ILE:H	1.97	0.77
1:E:451:PRO:HD3	2:F:413:TRP:CG	2.20	0.77
1:E:451:PRO:CD	2:F:413:TRP:CD2	2.65	0.77
1:B:598:TRP:CZ3	2:D:98:GLY:CA	2.67	0.77
1:E:248:ILE:HD11	1:E:382:PRO:CG	2.13	0.77
1:B:164:ASN:ND2	1:B:208:TYR:CD1	2.52	0.77
1:A:364:TRP:HB3	1:A:369:GLY:CA	2.09	0.77
1:E:528:LEU:HD11	1:E:569:GLU:OE1	1.84	0.77
2:F:279:ASN:HD21	2:F:308:ILE:HD12	1.50	0.77
1:B:64:SER:OG	1:B:86:ASN:C	2.23	0.77
2:D:308:ILE:HA	2:D:311:LEU:HD12	1.64	0.77
1:E:321:HIS:HE1	1:E:522:GLU:CD	1.86	0.77
1:E:364:TRP:CH2	1:E:368:TYR:HB3	2.19	0.77
1:B:104:ILE:HD13	1:B:107:VAL:CG2	2.13	0.77
1:B:117:LYS:CD	1:B:439:PHE:HE1	1.93	0.77
2:C:409:SER:HB3	1:A:450:PRO:HB2	1.65	0.77
2:D:158:TYR:O	2:D:162:VAL:HG23	1.85	0.77
1:A:579:PHE:HD2	1:A:581:ARG:CA	1.95	0.77
1:B:104:ILE:CD1	1:B:109:TYR:CD2	2.64	0.77
1:B:529:VAL:HA	1:B:541:LEU:HA	1.65	0.77
2:C:9:PRO:HB2	2:C:50:TYR:HD1	1.47	0.77
2:D:331:LEU:CD2	2:D:346:LEU:CG	2.61	0.77
1:A:172:ILE:CG2	1:A:179:PHE:HB2	1.86	0.77
1:E:300:LYS:NZ	3:E:704:HOH:O	1.93	0.77
1:E:334:ARG:O	1:E:338:LEU:HB2	1.85	0.77
1:B:325:PHE:CZ	1:B:469:LYS:HB2	2.16	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:598:TRP:HB2	2:D:58:HIS:HB2	1.67	0.77
1:A:172:ILE:O	1:A:175:VAL:HG22	1.84	0.77
1:A:298:LEU:H	1:A:298:LEU:HD23	1.50	0.77
1:E:229:MET:O	1:E:232:ILE:HG22	1.84	0.77
1:B:585:TYR:CD1	2:D:11:LYS:HA	2.20	0.77
2:C:155:TRP:HA	2:C:159:TRP:HB2	1.65	0.77
2:D:147:VAL:O	2:D:151:ILE:HG13	1.83	0.77
2:F:272:ILE:HG12	2:F:315:GLN:NE2	2.00	0.77
1:B:490:PHE:CB	1:B:557:ILE:HG22	1.85	0.77
1:A:346:TYR:O	1:A:357:LEU:HD21	1.84	0.77
1:A:573:ASN:O	1:A:576:VAL:CG2	2.33	0.77
1:E:132:THR:O	1:E:134:VAL:HG23	1.84	0.77
1:E:248:ILE:CD1	1:E:382:PRO:CB	2.59	0.77
1:E:490:PHE:HD1	1:E:521:THR:CG2	1.98	0.77
1:B:164:ASN:CA	1:B:210:PHE:CE1	2.59	0.77
1:B:586:ILE:HG23	2:D:6:ARG:O	1.84	0.77
2:C:148:ASP:O	2:C:151:ILE:HG22	1.86	0.77
2:D:326:LYS:C	2:D:330:THR:CG2	2.47	0.77
2:D:351:SER:O	2:D:353:ASP:OD2	2.02	0.77
1:E:164:ASN:HA	1:E:210:PHE:CE1	2.20	0.77
1:E:479:GLU:OE2	1:E:507:GLN:HB3	1.83	0.77
1:B:171:SER:HG	1:B:174:ARG:HD2	1.48	0.76
1:B:366:LYS:HE2	1:B:367:GLY:H	1.47	0.76
2:C:258:HIS:O	2:C:262:LEU:HG	1.85	0.76
2:D:122:PRO:HD2	2:D:125:PHE:HB2	1.67	0.76
2:D:331:LEU:HD22	2:D:346:LEU:HB2	1.65	0.76
2:C:415:PRO:HG3	1:A:448:PHE:HA	1.67	0.76
2:D:67:PHE:O	2:D:71:MET:HG2	1.84	0.76
1:A:108:ILE:HG13	1:A:133:GLN:HG3	1.67	0.76
1:E:555:GLU:O	3:E:705:HOH:O	2.02	0.76
1:B:81:LEU:CD2	1:B:87:LEU:CD1	2.63	0.76
2:C:309:ARG:HA	2:C:312:ALA:HB3	1.66	0.76
1:A:385:VAL:CG1	1:A:403:THR:HG23	2.12	0.76
1:E:366:LYS:HD2	1:E:367:GLY:N	1.98	0.76
1:E:565:LEU:O	1:E:565:LEU:HD23	1.84	0.76
2:C:20:LYS:CE	2:C:162:VAL:O	2.26	0.76
2:C:76:PHE:CE2	2:C:84:VAL:HG21	2.19	0.76
2:C:417:PRO:C	2:C:419:GLY:H	1.88	0.76
1:A:288:PRO:HB2	1:A:291:SER:HB2	1.65	0.76
1:A:368:TYR:CD1	1:A:372:LEU:HD21	2.20	0.76
1:E:451:PRO:HG3	2:F:413:TRP:CE2	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:504:ASN:O	1:E:509:PRO:CB	2.33	0.76
2:F:111:PRO:HG3	2:F:114:LEU:HG	1.65	0.76
1:B:388:LEU:CD2	1:B:406:ILE:HD11	2.15	0.76
1:A:346:TYR:O	1:A:350:GLY:HA3	1.86	0.76
1:A:565:LEU:HD13	1:A:570:ILE:CD1	2.11	0.76
2:F:10:TRP:HB2	2:F:15:GLU:CD	2.06	0.76
1:B:366:LYS:HE3	1:B:366:LYS:HA	1.66	0.76
1:B:432:TYR:HD2	1:B:526:LEU:CD1	1.97	0.76
1:B:572:SER:H	1:B:575:ILE:HD11	1.48	0.76
1:A:78:ILE:HG13	1:A:161:LYS:HB3	1.66	0.76
1:E:490:PHE:CD1	1:E:521:THR:CG2	2.69	0.76
1:B:532:ILE:HD12	1:B:539:MET:HB2	1.67	0.76
2:C:230:PHE:HA	2:C:233:VAL:CG2	2.16	0.76
2:D:125:PHE:CZ	2:D:150:ALA:N	2.46	0.76
2:D:194:ARG:HH11	2:D:194:ARG:HG3	1.47	0.76
1:E:71:ILE:HD12	1:E:71:ILE:O	1.85	0.76
1:E:299:SER:CA	1:E:317:SER:HA	2.14	0.76
1:E:530:HIS:C	2:F:418:PHE:CB	2.53	0.76
2:C:305:GLN:O	2:C:308:ILE:N	2.19	0.76
1:A:265:VAL:HG13	1:A:278:ILE:HG21	1.68	0.76
1:A:490:PHE:CB	1:A:557:ILE:HG13	2.16	0.76
1:A:573:ASN:O	1:A:576:VAL:HG22	1.84	0.76
1:E:480:ARG:O	3:E:706:HOH:O	2.03	0.76
1:B:502:LEU:HB3	1:B:509:PRO:CB	2.09	0.76
1:E:71:ILE:HD11	1:E:78:ILE:HB	1.67	0.76
1:E:361:THR:HG22	1:E:362:PRO:HD2	1.67	0.76
2:F:38:ARG:HH21	2:F:38:ARG:HG3	1.50	0.76
2:F:354:PRO:CD	2:F:355:VAL:H	1.96	0.76
2:C:10:TRP:HB3	2:C:50:TYR:CZ	2.21	0.76
2:C:28:ARG:C	2:C:29:GLU:OE2	2.24	0.76
1:A:125:SER:HB3	1:A:222:VAL:HG22	1.68	0.76
1:A:232:ILE:CD1	1:A:264:LEU:CB	2.26	0.76
1:A:322:TYR:CE2	1:A:324:GLY:HA2	2.21	0.76
1:A:432:TYR:OH	1:A:525:ARG:HB3	1.86	0.76
1:A:466:THR:CB	1:A:511:LEU:O	2.33	0.76
1:A:533:ASP:HB3	1:A:538:ILE:O	1.85	0.76
1:E:169:LEU:HD13	1:E:169:LEU:O	1.86	0.76
2:F:20:LYS:HZ3	2:F:162:VAL:C	1.86	0.76
1:B:223:ILE:HD12	1:B:224:LYS:N	2.01	0.75
2:C:277:SER:O	2:C:281:GLU:HG3	1.86	0.75
2:D:28:ARG:O	2:D:31:ILE:CG1	2.34	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:LEU:O	1:A:397:ILE:HD12	1.85	0.75
1:E:294:ASP:OD2	1:E:563:THR:HB	1.86	0.75
1:B:502:LEU:HD22	1:B:502:LEU:N	2.02	0.75
2:C:153:TRP:HZ2	2:C:157:HIS:CE1	2.02	0.75
1:A:63:PHE:HE2	1:A:214:THR:CB	1.99	0.75
1:B:305:GLN:HG3	1:B:309:HIS:CD2	2.21	0.75
1:B:327:SER:HB3	1:B:329:LYS:CE	2.17	0.75
2:D:28:ARG:O	2:D:31:ILE:HG12	1.86	0.75
1:E:164:ASN:HA	1:E:210:PHE:HE1	1.51	0.75
1:E:324:GLY:C	1:E:325:PHE:CD1	2.60	0.75
1:B:182:LEU:HB3	1:B:183:PHE:CD2	2.21	0.75
2:C:22:LEU:HD23	2:C:43:ALA:N	2.01	0.75
2:C:305:GLN:HA	2:C:308:ILE:CB	2.16	0.75
2:D:25:PRO:HB2	2:D:28:ARG:HA	1.67	0.75
2:D:183:LEU:HD21	2:D:224:HIS:CB	2.00	0.75
2:F:251:LEU:O	2:F:254:PRO:HD2	1.87	0.75
1:B:103:ASP:HA	1:B:108:ILE:CA	2.17	0.75
1:B:244:SER:HA	1:B:356:SER:OG	1.87	0.75
1:A:245:ILE:H	1:A:245:ILE:HD12	1.49	0.75
1:A:420:SER:HB3	1:A:423:GLN:HB3	1.68	0.75
1:A:433:PHE:HE1	1:A:528:LEU:HB2	1.50	0.75
1:A:565:LEU:HD22	1:A:570:ILE:CD1	2.15	0.75
1:E:338:LEU:HD23	1:E:338:LEU:O	1.86	0.75
1:B:560:ARG:NH1	3:B:705:HOH:O	2.20	0.75
2:D:327:MET:O	2:D:331:LEU:N	2.20	0.75
1:A:236:THR:N	1:A:237:GLU:OE1	2.20	0.75
1:A:335:TYR:O	1:A:339:VAL:HG23	1.85	0.75
1:A:539:MET:O	1:A:541:LEU:HD23	1.85	0.75
1:E:228:TRP:HZ3	1:E:263:LEU:HD23	1.50	0.75
1:B:121:PRO:CD	1:B:124:SER:HB3	2.17	0.75
1:B:368:TYR:HD2	2:C:124:LEU:HD21	1.51	0.75
1:B:543:ILE:CD1	1:B:546:PHE:CG	2.70	0.75
2:C:232:ASN:HA	2:C:278:LYS:NZ	2.02	0.75
2:D:70:LEU:HD23	2:D:70:LEU:O	1.85	0.75
1:A:464:ALA:HA	1:A:509:PRO:HD2	1.68	0.75
1:A:465:LEU:HD11	1:A:482:ILE:HG21	1.68	0.75
1:E:269:LEU:HD11	1:E:278:ILE:CG2	2.17	0.75
2:F:331:LEU:HD21	2:F:343:LEU:HD23	1.68	0.75
1:B:63:PHE:CA	1:B:88:ILE:HD13	2.15	0.75
1:A:117:LYS:HD3	1:A:439:PHE:HZ	1.46	0.75
1:A:286:GLY:HA2	1:A:326:ASN:OD1	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:398:ASP:OD1	1:A:401:LYS:HG2	1.86	0.75
1:E:290:TYR:CE1	1:E:301:ILE:CD1	2.70	0.75
1:E:310:LEU:HD22	1:E:310:LEU:N	2.02	0.75
1:E:438:ASP:OD2	1:E:439:PHE:N	2.19	0.75
2:F:305:GLN:O	2:F:309:ARG:HG2	1.86	0.75
1:B:104:ILE:CD1	1:B:107:VAL:CG2	2.65	0.74
2:C:153:TRP:CE2	2:C:157:HIS:CD2	2.75	0.74
2:C:257:ASN:O	2:C:261:HIS:N	2.13	0.74
2:C:304:ALA:O	2:C:308:ILE:N	2.20	0.74
2:D:83:THR:HA	2:D:86:LEU:HD12	1.69	0.74
1:A:454:VAL:O	1:A:538:ILE:HG23	1.87	0.74
1:A:465:LEU:O	1:A:510:LEU:HA	1.87	0.74
1:E:321:HIS:CE1	1:E:522:GLU:OE1	2.39	0.74
1:B:465:LEU:HD13	1:B:482:ILE:HG21	1.66	0.74
2:D:125:PHE:CZ	2:D:150:ALA:CB	2.68	0.74
1:A:119:ILE:HG13	1:A:309:HIS:ND1	2.02	0.74
1:A:478:LEU:CD1	1:A:510:LEU:CD1	2.57	0.74
1:E:109:TYR:HE1	1:E:271:PRO:HD3	1.49	0.74
1:B:490:PHE:HB3	1:B:557:ILE:CB	2.09	0.74
1:A:436:ILE:HG22	1:A:440:LYS:O	1.87	0.74
1:E:530:HIS:CE1	1:E:570:ILE:CG2	2.70	0.74
1:E:588:PHE:N	2:F:5:PRO:HB2	2.01	0.74
2:F:20:LYS:HA	2:F:159:TRP:CE3	2.19	0.74
1:B:468:LEU:CD1	1:B:560:ARG:O	2.36	0.74
1:A:369:GLY:CA	1:A:372:LEU:HD12	2.12	0.74
1:E:452:ILE:HD12	1:E:543:ILE:HG22	1.68	0.74
2:C:235:ILE:HD11	2:C:278:LYS:HE2	0.75	0.74
1:A:95:LEU:CA	1:A:162:LEU:HB3	2.16	0.74
1:A:162:LEU:H	1:A:162:LEU:HD13	1.52	0.74
1:E:228:TRP:CZ3	1:E:263:LEU:CD2	2.71	0.74
1:E:500:CYS:CB	1:E:515:GLU:OE2	2.19	0.74
2:D:115:LEU:O	2:D:119:ILE:HG22	1.88	0.74
1:A:184:TRP:CZ2	1:A:211:TYR:CG	2.75	0.74
1:A:322:TYR:HB2	1:A:523:PHE:CE1	2.23	0.74
1:B:172:ILE:O	1:B:175:VAL:HG22	1.86	0.74
2:C:153:TRP:CZ2	2:C:157:HIS:CG	2.76	0.74
2:C:195:ARG:HG2	2:C:195:ARG:NH1	2.01	0.74
2:F:245:TRP:O	2:F:248:LEU:HG	1.87	0.74
2:C:305:GLN:HA	2:C:308:ILE:HG13	1.68	0.74
2:D:60:LEU:HD23	2:D:159:TRP:CZ2	2.23	0.74
1:A:78:ILE:CG1	1:A:161:LYS:CB	2.57	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:95:LEU:HA	1:A:162:LEU:HA	1.68	0.74
2:F:256:MET:CA	2:F:259:PHE:HB3	2.16	0.74
2:F:305:GLN:O	2:F:309:ARG:CG	2.36	0.74
1:B:104:ILE:HD12	1:B:104:ILE:N	2.03	0.74
1:B:369:GLY:HA2	1:B:372:LEU:HB2	1.69	0.74
1:B:583:LEU:HD13	1:B:583:LEU:N	2.03	0.74
1:E:225:HIS:O	1:E:228:TRP:CB	2.35	0.74
2:F:111:PRO:CG	2:F:113:HIS:CE1	2.71	0.74
1:B:121:PRO:HD2	1:B:124:SER:HB3	1.67	0.73
1:B:454:VAL:CG1	2:D:407:PHE:HD1	1.93	0.73
1:B:529:VAL:HG21	1:B:532:ILE:CD1	2.15	0.73
2:D:22:LEU:N	2:D:22:LEU:HD23	2.03	0.73
1:A:110:HIS:CB	1:A:140:LEU:CB	2.60	0.73
1:A:464:ALA:CB	1:A:509:PRO:CB	2.59	0.73
1:E:397:ILE:N	1:E:397:ILE:HD12	2.03	0.73
2:F:316:ILE:HD11	2:F:346:LEU:CD2	2.13	0.73
2:C:8:THR:HG21	1:A:587:THR:HG23	1.69	0.73
2:C:249:ARG:CA	2:C:307:TRP:CH2	2.70	0.73
2:C:305:GLN:CA	2:C:308:ILE:HD12	2.18	0.73
2:C:410:HIS:CB	1:A:451:PRO:HD3	2.19	0.73
1:E:281:MET:HG3	1:E:342:LEU:CD2	2.17	0.73
1:E:584:PRO:O	2:F:11:LYS:O	2.06	0.73
1:B:583:LEU:HD13	1:B:583:LEU:H	1.52	0.73
1:A:176:CYS:CB	1:A:179:PHE:HD1	2.01	0.73
1:A:325:PHE:CD2	1:A:330:ASP:CB	2.70	0.73
1:E:406:ILE:N	1:E:406:ILE:HD13	2.03	0.73
2:F:115:LEU:O	2:F:119:ILE:HG13	1.87	0.73
2:F:121:LEU:HD12	2:F:122:PRO:CD	2.18	0.73
2:D:24:PHE:CE1	2:D:67:PHE:CZ	2.65	0.73
2:D:276:LEU:CG	2:D:333:LYS:CB	2.66	0.73
1:A:237:GLU:CD	1:A:237:GLU:H	1.91	0.73
1:A:540:ASN:O	1:A:541:LEU:HD23	1.88	0.73
1:E:107:VAL:CG2	1:E:266:GLN:HE21	2.01	0.73
2:F:158:TYR:CD1	2:F:159:TRP:CD1	2.71	0.73
2:F:248:LEU:O	2:F:252:PHE:N	2.21	0.73
2:F:336:HIS:CB	2:F:339:ASN:HB2	2.19	0.73
1:B:233:LYS:O	1:B:236:THR:OG1	2.06	0.73
1:B:366:LYS:CE	1:B:367:GLY:H	2.01	0.73
1:A:169:LEU:HD21	1:A:441:PHE:HE1	1.51	0.73
1:A:232:ILE:HD11	1:A:264:LEU:HG	1.67	0.73
1:A:434:HIS:NE2	1:A:446:LEU:HD11	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:304:VAL:HG23	1:A:306:HIS:HD2	1.51	0.73
1:A:374:ARG:HG3	1:A:375:THR:N	2.03	0.73
1:A:490:PHE:CZ	1:A:523:PHE:HD1	2.03	0.73
1:E:572:SER:H	1:E:575:ILE:HG13	1.52	0.73
2:F:262:LEU:HD13	2:F:262:LEU:O	1.89	0.73
1:A:107:VAL:HG21	1:A:109:TYR:OH	1.89	0.73
1:A:427:LEU:O	1:A:427:LEU:HD23	1.88	0.73
1:E:185:GLN:HG2	1:E:187:ASP:OD2	1.87	0.73
1:E:365:ILE:CD1	1:E:393:LEU:CD1	2.67	0.73
1:E:519:LEU:HD23	1:E:519:LEU:N	2.02	0.73
2:F:248:LEU:HA	2:F:251:LEU:HB2	1.69	0.73
1:B:126:ILE:N	1:B:126:ILE:HD13	2.04	0.73
1:B:252:GLY:H	1:B:255:SER:HG	1.33	0.73
1:A:296:ILE:CG2	1:A:342:LEU:CD2	2.66	0.73
1:A:491:LYS:HB3	1:A:491:LYS:NZ	2.03	0.73
1:A:583:LEU:CB	1:A:586:ILE:CA	2.67	0.73
1:E:447:LEU:CD1	1:E:575:ILE:CG2	2.66	0.73
1:B:172:ILE:CD1	1:B:179:PHE:CB	2.46	0.73
1:B:250:ILE:HG21	1:B:365:ILE:HD12	1.69	0.73
1:B:328:PRO:CB	1:B:335:TYR:CE2	2.69	0.73
2:D:90:MET:HE2	2:D:90:MET:HA	1.69	0.73
1:A:245:ILE:HD12	1:A:245:ILE:N	2.04	0.73
1:E:95:LEU:HD21	1:E:116:MET:HG3	1.70	0.73
1:E:290:TYR:CD1	1:E:301:ILE:HD11	2.23	0.73
1:E:341:GLN:HG3	1:E:342:LEU:N	2.04	0.73
2:F:14:ASP:OD1	2:F:14:ASP:N	2.22	0.73
2:F:328:ILE:HD12	2:F:328:ILE:N	2.03	0.73
1:B:102:ILE:O	1:B:108:ILE:HA	1.89	0.73
1:E:72:TYR:HE2	1:E:206:SER:OG	1.72	0.73
1:E:95:LEU:O	1:E:95:LEU:HD23	1.88	0.73
1:E:329:LYS:O	1:E:332:PRO:HD3	1.89	0.73
1:B:182:LEU:CD1	1:B:183:PHE:HE2	1.99	0.72
1:A:108:ILE:CG1	1:A:133:GLN:HG3	2.18	0.72
1:B:92:GLN:HB3	1:B:119:ILE:HD12	1.71	0.72
1:B:496:HIS:CB	1:B:519:LEU:CD2	2.68	0.72
1:A:72:TYR:CE2	1:A:206:SER:OG	2.42	0.72
1:A:213:ILE:HD12	1:A:219:THR:OG1	1.89	0.72
1:A:483:GLU:HA	1:A:529:VAL:HG11	1.70	0.72
1:E:346:TYR:O	1:E:350:GLY:N	2.22	0.72
1:A:571:ALA:HA	1:A:575:ILE:HG13	1.70	0.72
1:B:290:TYR:N	1:B:311:SER:HG	1.75	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:486:ILE:CD1	1:E:564:ASP:O	2.37	0.72
2:F:354:PRO:O	2:F:358:ASP:OD1	2.07	0.72
1:B:533:ASP:OD1	1:B:535:GLU:N	2.23	0.72
2:C:308:ILE:O	2:C:312:ALA:N	2.22	0.72
1:A:310:LEU:HD22	1:A:310:LEU:N	2.04	0.72
1:A:464:ALA:HA	1:A:509:PRO:CG	2.19	0.72
1:E:571:ALA:HB2	1:E:586:ILE:HD13	1.65	0.72
1:B:211:TYR:CD1	1:B:212:PRO:HD2	2.25	0.72
1:B:305:GLN:CG	1:B:309:HIS:CD2	2.72	0.72
2:C:22:LEU:HD22	2:C:43:ALA:HA	1.69	0.72
2:C:186:LEU:HD13	2:C:224:HIS:CB	2.20	0.72
1:A:304:VAL:HG23	1:A:306:HIS:CD2	2.24	0.72
1:E:184:TRP:CH2	1:E:211:TYR:HB3	2.23	0.72
1:E:252:GLY:O	1:E:255:SER:OG	2.05	0.72
1:E:292:GLY:O	1:E:295:CYS:HB2	1.89	0.72
1:E:364:TRP:HB3	1:E:369:GLY:CA	2.07	0.72
1:E:453:GLN:O	2:F:407:PHE:CA	2.38	0.72
2:F:20:LYS:HZ1	2:F:162:VAL:CA	2.02	0.72
2:D:186:LEU:HB3	2:D:221:ILE:HG12	1.72	0.72
1:A:434:HIS:NE2	1:A:446:LEU:CD1	2.53	0.72
1:A:491:LYS:HB3	1:A:491:LYS:HZ2	1.54	0.72
2:C:94:ARG:HG3	1:A:598:TRP:HH2	1.55	0.72
2:D:331:LEU:HA	2:D:346:LEU:CD1	2.20	0.72
1:A:283:LEU:HD22	1:A:339:VAL:HG13	1.72	0.72
1:E:233:LYS:HZ1	1:E:237:GLU:HB2	1.55	0.72
1:E:364:TRP:CZ3	1:E:368:TYR:HD1	2.07	0.72
1:B:320:CYS:O	1:B:321:HIS:ND1	2.22	0.72
2:D:257:ASN:HD21	2:D:261:HIS:CD2	2.08	0.72
1:A:454:VAL:C	1:A:538:ILE:HG23	2.10	0.72
1:E:110:HIS:CD2	1:E:137:SER:O	2.42	0.72
1:E:269:LEU:HD11	1:E:278:ILE:HG22	1.70	0.72
1:E:281:MET:SD	1:E:342:LEU:HD23	2.29	0.72
2:C:129:ARG:O	2:C:133:THR:N	2.20	0.72
2:C:156:ASP:HA	2:C:160:ASP:OD1	1.90	0.72
1:A:207:ASP:O	3:A:704:HOH:O	2.07	0.72
1:A:368:TYR:CD1	1:A:372:LEU:CG	2.72	0.72
1:A:493:LYS:O	1:A:496:HIS:HB2	1.90	0.72
1:B:103:ASP:O	1:B:130:GLN:HB2	1.90	0.71
2:D:361:GLN:O	2:D:365:THR:HG23	1.89	0.71
1:A:294:ASP:CG	1:A:325:PHE:O	2.28	0.71
1:A:365:ILE:O	1:A:393:LEU:HD21	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:182:LEU:HB3	1:E:183:PHE:CD2	2.25	0.71
1:E:430:MET:HE3	1:E:568:TRP:CE3	2.23	0.71
1:B:167:THR:CA	1:B:439:PHE:O	2.38	0.71
1:B:475:MET:O	1:B:478:LEU:CD2	2.38	0.71
1:B:486:ILE:HD13	1:B:564:ASP:C	2.10	0.71
2:C:10:TRP:HA	2:C:50:TYR:HE1	1.54	0.71
1:A:184:TRP:HH2	1:A:211:TYR:CD2	1.96	0.71
1:B:346:TYR:CB	1:B:357:LEU:HD21	2.20	0.71
1:B:468:LEU:CD1	1:B:560:ARG:C	2.58	0.71
1:B:586:ILE:HD13	1:B:586:ILE:N	2.03	0.71
2:C:274:SER:O	2:C:278:LYS:CG	2.38	0.71
1:A:169:LEU:HD23	1:A:441:PHE:CE1	2.15	0.71
1:E:466:THR:HG21	1:E:516:PHE:HD2	1.48	0.71
1:B:182:LEU:HB3	1:B:183:PHE:HD2	1.55	0.71
1:E:93:PHE:HB2	1:E:210:PHE:CD1	2.24	0.71
1:E:567:ILE:O	1:E:570:ILE:HD13	1.90	0.71
2:F:111:PRO:CG	2:F:113:HIS:HE1	2.03	0.71
1:B:276:LEU:HD22	1:B:276:LEU:N	2.05	0.71
1:B:331:GLN:HE22	1:B:468:LEU:HB3	1.54	0.71
1:B:598:TRP:CH2	2:D:98:GLY:CA	2.74	0.71
2:C:40:TYR:CD2	2:C:67:PHE:CD1	2.79	0.71
1:A:328:PRO:HB3	1:A:335:TYR:CE2	2.25	0.71
1:E:586:ILE:CG2	2:F:6:ARG:O	2.36	0.71
1:B:343:VAL:O	1:B:347:GLU:N	2.21	0.71
2:D:234:MET:O	2:D:237:ARG:N	2.23	0.71
2:D:331:LEU:HD23	2:D:346:LEU:HD12	1.67	0.71
1:E:232:ILE:HG12	1:E:264:LEU:HA	1.71	0.71
1:E:366:LYS:CD	1:E:367:GLY:H	2.00	0.71
1:E:530:HIS:O	2:F:418:PHE:C	2.28	0.71
1:B:373:THR:O	1:B:377:ILE:HG13	1.91	0.71
1:E:100:GLY:C	1:E:111:SER:HG	1.92	0.71
1:B:87:LEU:HD13	1:B:160:ILE:CD1	1.98	0.71
1:B:594:LEU:O	2:D:59:ILE:CG1	2.37	0.71
2:C:11:LYS:HB2	1:A:585:TYR:CZ	2.12	0.71
1:E:164:ASN:OD1	1:E:209:THR:CG2	2.34	0.71
2:F:22:LEU:HB3	2:F:43:ALA:HB2	1.72	0.71
2:F:217:CYS:O	2:F:221:ILE:HG13	1.89	0.71
2:C:36:LEU:O	2:C:40:TYR:CD1	2.44	0.71
2:D:214:TYR:HA	2:D:217:CYS:SG	2.30	0.71
1:B:383:THR:CG2	1:B:384:HIS:NE2	2.54	0.70
2:C:125:PHE:HE1	2:C:146:CYS:HG	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:ILE:H	1:A:71:ILE:CD1	2.04	0.70
1:B:224:LYS:HG3	1:B:228:TRP:CE3	2.26	0.70
2:D:89:SER:OG	2:D:128:PHE:CE1	2.43	0.70
1:A:169:LEU:HD12	1:A:183:PHE:CZ	2.25	0.70
1:E:432:TYR:OH	1:E:525:ARG:HG2	1.91	0.70
1:B:81:LEU:HD21	1:B:87:LEU:HG	1.73	0.70
2:C:369:ARG:O	2:C:373:ASP:OD1	2.08	0.70
1:A:331:GLN:CB	1:A:334:ARG:HB2	2.21	0.70
1:E:172:ILE:CD1	1:E:183:PHE:CE2	2.62	0.70
1:E:225:HIS:HB2	1:E:228:TRP:H	1.55	0.70
1:E:235:LEU:HD13	1:E:247:VAL:HG21	1.73	0.70
1:E:363:GLY:HA2	3:E:708:HOH:O	1.87	0.70
2:F:111:PRO:HG2	2:F:114:LEU:CG	2.21	0.70
1:B:169:LEU:O	1:B:170:GLU:HB3	1.91	0.70
2:C:310:TRP:CH2	2:C:314:GLU:OE1	2.44	0.70
1:E:78:ILE:CG1	1:E:161:LYS:HG3	2.20	0.70
1:E:169:LEU:HD12	1:E:183:PHE:CD1	2.25	0.70
1:E:364:TRP:HE3	1:E:369:GLY:HA2	1.56	0.70
1:B:77:VAL:HG11	1:B:79:PHE:CZ	2.26	0.70
2:C:48:GLU:OE2	2:D:80:LEU:CD2	2.39	0.70
2:C:84:VAL:O	3:C:502:HOH:O	2.08	0.70
1:A:172:ILE:HG21	1:A:179:PHE:HB3	0.73	0.70
1:A:525:ARG:HD3	1:A:544:PRO:HG2	1.72	0.70
1:A:530:HIS:CD2	1:A:531:SER:HB3	2.26	0.70
1:A:532:ILE:HG22	1:A:539:MET:HE3	1.72	0.70
1:A:565:LEU:HD22	1:A:570:ILE:HD11	1.72	0.70
1:B:92:GLN:HB3	1:B:119:ILE:CD1	2.21	0.70
1:E:490:PHE:HD1	1:E:521:THR:HG22	1.56	0.70
2:D:6:ARG:HG3	2:D:6:ARG:NH1	2.05	0.70
1:A:95:LEU:HA	1:A:162:LEU:CB	2.21	0.70
1:A:162:LEU:HD13	1:A:162:LEU:N	2.05	0.70
1:A:420:SER:O	1:A:423:GLN:N	2.24	0.70
2:F:312:ALA:HB1	2:F:342:LEU:CD2	2.18	0.70
1:B:598:TRP:HE3	2:D:58:HIS:CE1	2.09	0.70
2:C:125:PHE:HE1	2:C:146:CYS:SG	2.15	0.70
2:D:62:SER:C	2:D:66:LEU:CD1	2.34	0.70
1:A:111:SER:HB2	1:A:141:GLU:N	2.07	0.70
1:A:371:GLU:O	1:A:375:THR:OG1	2.10	0.70
1:E:360:ASN:OD1	1:E:361:THR:N	2.25	0.70
2:F:328:ILE:H	2:F:328:ILE:CD1	2.00	0.70
1:E:435:LYS:HB3	1:E:441:PHE:CE1	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:501:GLU:CB	1:E:502:LEU:HA	2.20	0.70
1:E:571:ALA:HB2	1:E:586:ILE:HD11	1.70	0.70
2:F:111:PRO:O	2:F:115:LEU:CD1	2.39	0.70
2:C:65:HIS:CG	2:C:94:ARG:NH2	2.52	0.70
1:A:322:TYR:CB	1:A:523:PHE:CE1	2.75	0.70
1:A:389:ASN:HD21	1:A:408:LEU:CB	2.05	0.70
1:E:364:TRP:CZ3	1:E:368:TYR:CD1	2.80	0.70
1:E:451:PRO:CG	2:F:413:TRP:CE2	2.75	0.70
2:F:22:LEU:HG	2:F:39:GLN:HB3	1.72	0.70
2:F:38:ARG:HG3	2:F:38:ARG:NH2	2.04	0.70
1:B:420:SER:O	1:B:423:GLN:HG3	1.92	0.69
1:B:456:TYR:OH	1:B:537:LYS:HA	1.90	0.69
1:A:483:GLU:CG	1:A:532:ILE:HD12	2.22	0.69
1:A:224:LYS:HG2	1:A:228:TRP:CZ3	2.26	0.69
1:A:565:LEU:CD2	1:A:570:ILE:HD11	2.22	0.69
1:E:138:SER:HA	1:E:139:LEU:C	2.11	0.69
2:F:237:ARG:CA	2:F:240:SER:HB2	2.18	0.69
1:B:454:VAL:C	2:D:405:LYS:CB	2.60	0.69
1:B:481:SER:HA	2:D:53:ARG:HH11	1.56	0.69
1:B:490:PHE:CG	1:B:557:ILE:HG21	2.27	0.69
2:D:218:ILE:HA	2:D:221:ILE:HD12	1.74	0.69
2:D:269:LEU:C	2:D:272:ILE:HD12	2.11	0.69
2:D:327:MET:HA	2:D:330:THR:CB	2.17	0.69
1:A:408:LEU:HD13	1:A:408:LEU:N	2.01	0.69
1:A:454:VAL:HG21	1:A:541:LEU:HD11	1.74	0.69
1:E:85:GLN:CB	1:E:131:ALA:CA	2.70	0.69
1:E:230:ASP:OD1	1:E:234:SER:HB2	1.92	0.69
1:B:432:TYR:CD2	1:B:526:LEU:CD1	2.76	0.69
2:D:77:GLU:N	2:D:77:GLU:OE2	2.25	0.69
2:D:125:PHE:CZ	2:D:150:ALA:HA	2.28	0.69
1:A:81:LEU:O	1:A:157:LYS:CB	2.40	0.69
1:A:508:LEU:HD12	1:A:509:PRO:HD3	1.74	0.69
1:B:72:TYR:OH	1:B:205:PHE:CA	2.38	0.69
1:B:586:ILE:CG2	2:D:6:ARG:O	2.39	0.69
2:C:153:TRP:CZ2	2:C:157:HIS:NE2	2.60	0.69
2:C:181:LYS:O	2:C:185:ASP:N	2.24	0.69
2:C:271:LEU:CD1	2:C:275:MET:CE	2.67	0.69
2:D:149:ARG:NH1	2:D:149:ARG:HB3	2.08	0.69
1:A:97:ILE:HD11	1:A:116:MET:HE1	1.75	0.69
1:E:77:VAL:HG11	1:E:79:PHE:CZ	2.27	0.69
1:E:451:PRO:HD3	2:F:413:TRP:CE2	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:225:HIS:HD2	1:B:228:TRP:HE3	1.40	0.69
1:B:380:VAL:CG1	1:B:382:PRO:HD3	2.23	0.69
2:C:271:LEU:HG	2:C:275:MET:HE3	1.73	0.69
2:D:24:PHE:CD2	2:D:155:TRP:NE1	2.59	0.69
1:E:301:ILE:HG12	1:E:315:THR:HG21	1.75	0.69
1:B:326:ASN:HD22	1:B:326:ASN:N	1.91	0.69
2:D:54:THR:HG22	2:D:55:ARG:N	2.08	0.69
2:D:129:ARG:O	2:D:133:THR:OG1	2.06	0.69
1:A:76:TYR:HD2	1:A:78:ILE:HD13	1.58	0.69
1:A:95:LEU:HB2	1:A:162:LEU:HB3	1.72	0.69
1:A:401:LYS:HA	1:A:401:LYS:HZ2	1.56	0.69
1:A:525:ARG:HB3	1:A:525:ARG:HH21	1.57	0.69
1:E:172:ILE:O	1:E:175:VAL:HG22	1.91	0.69
1:E:348:SER:O	1:E:351:GLU:CD	2.31	0.69
1:E:440:LYS:HB2	1:E:440:LYS:HZ2	1.56	0.69
1:B:366:LYS:HA	1:B:366:LYS:CE	2.19	0.69
1:B:465:LEU:CD2	1:B:466:THR:N	2.48	0.69
1:B:529:VAL:CG2	1:B:532:ILE:HD11	2.18	0.69
2:D:149:ARG:NE	2:D:149:ARG:HA	2.07	0.69
2:D:327:MET:C	2:D:330:THR:OG1	2.31	0.69
1:A:130:GLN:HB3	1:A:132:THR:HG23	1.74	0.69
1:A:440:LYS:C	1:A:441:PHE:HD2	1.96	0.69
1:A:451:PRO:C	1:A:541:LEU:O	2.29	0.69
1:E:524:PHE:CE2	1:E:543:ILE:CD1	2.72	0.69
2:F:215:TRP:HA	2:F:215:TRP:CE3	2.26	0.69
1:B:388:LEU:HD21	1:B:406:ILE:HD11	1.75	0.69
2:C:90:MET:SD	2:D:93:ILE:HD12	2.31	0.69
2:C:249:ARG:CA	2:C:307:TRP:HH2	2.04	0.69
2:F:7:LEU:HD23	2:F:7:LEU:O	1.93	0.68
1:B:447:LEU:O	1:B:542:TYR:OH	2.10	0.68
2:C:90:MET:CE	2:D:93:ILE:CD1	2.71	0.68
2:D:81:ASP:OD2	2:D:85:ARG:NH2	2.27	0.68
1:E:92:GLN:OE1	1:E:167:THR:HG21	1.92	0.68
1:E:322:TYR:HB3	1:E:490:PHE:HZ	1.57	0.68
1:B:76:TYR:HB3	1:B:163:THR:HA	1.76	0.68
1:B:90:LYS:HE3	1:B:213:ILE:HD11	1.74	0.68
2:C:409:SER:HB3	1:A:450:PRO:CB	2.22	0.68
2:D:266:ASP:C	2:D:268:PRO:HD2	2.13	0.68
1:A:304:VAL:CG2	1:A:306:HIS:CD2	2.77	0.68
1:A:456:TYR:CA	1:A:537:LYS:CB	2.70	0.68
1:E:524:PHE:CE2	1:E:525:ARG:HB2	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:567:ILE:CG2	1:E:571:ALA:HB3	2.23	0.68
1:B:111:SER:OG	1:B:141:GLU:C	2.32	0.68
1:B:310:LEU:HB3	1:B:428:LYS:CG	2.22	0.68
2:D:88:ALA:O	2:D:92:ILE:HG13	1.92	0.68
1:B:276:LEU:HD22	1:B:276:LEU:H	1.57	0.68
2:C:232:ASN:HA	2:C:235:ILE:HD11	1.75	0.68
2:D:190:TYR:CD2	2:D:218:ILE:HG23	2.27	0.68
2:D:194:ARG:HG3	2:D:194:ARG:NH1	2.06	0.68
2:F:419:GLY:O	2:F:420:VAL:HG22	1.93	0.68
1:B:366:LYS:HE2	1:B:367:GLY:N	2.09	0.68
2:C:260:ILE:HD12	2:C:268:PRO:HD3	1.75	0.68
1:A:368:TYR:CD1	1:A:372:LEU:CD2	2.75	0.68
1:E:366:LYS:HB2	1:E:393:LEU:CD1	2.24	0.68
1:E:531:SER:C	1:E:540:ASN:HD21	1.97	0.68
1:B:595:GLU:O	1:B:596:LYS:HG3	1.94	0.68
2:D:116:ALA:CA	2:D:119:ILE:HG22	2.23	0.68
2:D:269:LEU:CA	2:D:272:ILE:HD12	2.24	0.68
1:E:88:ILE:HG23	1:E:128:LEU:HD23	1.75	0.68
1:B:118:PHE:CD1	1:B:306:HIS:HB2	2.27	0.68
1:A:95:LEU:HG	1:A:116:MET:HE2	1.75	0.68
1:A:269:LEU:HD23	1:A:278:ILE:HG22	1.76	0.68
1:A:297:SER:HB3	1:A:319:GLN:O	1.94	0.68
1:A:583:LEU:CB	1:A:586:ILE:N	2.56	0.68
1:B:595:GLU:C	1:B:596:LYS:HD2	2.14	0.68
2:C:28:ARG:CA	2:C:29:GLU:OE2	2.42	0.68
2:C:86:LEU:HD22	2:D:91:THR:OG1	1.94	0.68
2:C:153:TRP:HZ2	2:C:157:HIS:NE2	1.91	0.68
1:A:350:GLY:HA3	1:A:357:LEU:CD1	2.20	0.68
1:E:93:PHE:CB	1:E:210:PHE:HD1	2.00	0.68
1:E:405:LEU:HD23	1:E:405:LEU:O	1.94	0.68
1:E:567:ILE:N	1:E:567:ILE:HD12	2.09	0.68
1:B:377:ILE:O	1:B:382:PRO:HD2	1.94	0.68
1:B:584:PRO:HG3	2:D:417:PRO:O	1.93	0.68
1:A:486:ILE:HD12	1:A:564:ASP:O	1.93	0.68
1:E:226:LYS:HA	1:E:229:MET:CB	2.23	0.68
1:E:299:SER:CB	1:E:317:SER:CA	2.65	0.68
2:F:20:LYS:NZ	2:F:162:VAL:C	2.46	0.68
2:F:220:GLY:O	2:F:224:HIS:HD2	1.71	0.68
1:B:483:GLU:O	1:B:485:THR:HG23	1.92	0.67
1:B:496:HIS:CB	1:B:519:LEU:HD22	2.24	0.67
2:C:305:GLN:HA	2:C:308:ILE:HB	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:362:ALA:O	2:D:365:THR:OG1	2.11	0.67
1:A:325:PHE:CD2	1:A:562:ASN:HB2	2.30	0.67
1:A:456:TYR:CB	1:A:537:LYS:C	2.62	0.67
1:A:539:MET:O	1:A:541:LEU:HD21	1.95	0.67
1:E:455:SER:HG	1:E:462:ILE:H	1.39	0.67
2:F:237:ARG:NE	2:F:240:SER:HB2	2.09	0.67
1:B:510:LEU:C	1:B:510:LEU:HD23	2.15	0.67
1:B:533:ASP:OD1	1:B:536:LYS:N	2.25	0.67
2:C:271:LEU:O	2:C:275:MET:CG	2.42	0.67
2:C:416:LYS:HD2	2:C:416:LYS:N	2.10	0.67
1:A:169:LEU:CD2	1:A:441:PHE:HD1	1.69	0.67
1:A:285:PRO:HB3	1:A:323:VAL:HG21	1.76	0.67
1:E:290:TYR:HE1	1:E:301:ILE:CD1	2.07	0.67
2:F:10:TRP:N	2:F:50:TYR:CE2	2.62	0.67
2:F:110:ILE:HD12	2:F:110:ILE:C	2.14	0.67
1:A:376:LEU:HD13	1:A:376:LEU:C	2.15	0.67
1:A:462:ILE:HG12	1:A:556:ILE:CB	2.24	0.67
1:E:284:ASP:CG	1:E:287:GLN:H	1.93	0.67
1:E:400:PRO:O	1:E:401:LYS:HG2	1.95	0.67
1:E:453:GLN:O	2:F:407:PHE:HA	1.94	0.67
2:F:262:LEU:HD13	2:F:262:LEU:C	2.14	0.67
1:B:438:ASP:O	1:B:439:PHE:HB2	1.94	0.67
2:D:122:PRO:HG2	2:D:125:PHE:CD1	2.30	0.67
1:A:325:PHE:CE1	1:A:330:ASP:CB	2.72	0.67
1:E:178:LEU:C	1:E:178:LEU:HD23	2.15	0.67
1:E:290:TYR:HD1	1:E:301:ILE:HD11	1.57	0.67
1:E:390:SER:OG	3:E:707:HOH:O	2.11	0.67
2:C:36:LEU:O	2:C:40:TYR:HD1	1.76	0.67
2:D:7:LEU:HD12	2:D:8:THR:H	1.59	0.67
2:D:123:SER:O	2:D:126:VAL:HB	1.95	0.67
1:A:63:PHE:CD2	1:A:213:ILE:O	2.48	0.67
1:A:162:LEU:CD2	1:A:210:PHE:HE2	2.04	0.67
2:F:9:PRO:HD2	2:F:10:TRP:CZ3	2.30	0.67
2:C:305:GLN:CB	2:C:308:ILE:HD12	2.25	0.67
1:A:596:LYS:HA	1:A:596:LYS:NZ	2.10	0.67
1:E:427:LEU:HD23	1:E:427:LEU:C	2.15	0.67
2:F:247:HIS:O	2:F:251:LEU:N	2.27	0.67
1:B:237:GLU:O	1:B:241:ASN:OD1	2.12	0.67
1:A:253:LYS:O	1:A:254:ASN:HB3	1.92	0.67
1:A:399:ILE:C	1:A:399:ILE:HD12	2.15	0.67
1:A:415:SER:HA	1:A:418:ARG:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:486:ILE:HD11	1:A:564:ASP:O	1.95	0.67
1:A:492:VAL:HG13	1:A:557:ILE:CD1	2.25	0.67
1:E:365:ILE:HD12	1:E:366:LYS:HB2	1.76	0.67
2:F:22:LEU:CD1	2:F:42:GLU:HB3	2.25	0.67
2:D:70:LEU:HD23	2:D:70:LEU:C	2.15	0.67
1:A:464:ALA:HA	1:A:509:PRO:CD	2.24	0.67
1:E:184:TRP:CH2	1:E:211:TYR:CB	2.76	0.67
1:E:224:LYS:HG2	1:E:228:TRP:CE3	2.14	0.67
1:E:529:VAL:HG12	1:E:532:ILE:HD11	1.72	0.67
1:B:104:ILE:HG22	1:B:128:LEU:C	2.12	0.67
2:D:269:LEU:HA	2:D:272:ILE:HD12	1.75	0.67
1:A:72:TYR:HD2	1:A:208:TYR:OH	1.77	0.67
1:A:305:GLN:OE1	1:A:313:THR:CB	2.43	0.67
1:A:532:ILE:N	1:A:532:ILE:HD13	2.10	0.67
1:E:487:VAL:HG22	1:E:527:ALA:HB3	1.76	0.67
1:E:490:PHE:CD1	1:E:521:THR:HG21	2.29	0.67
2:D:79:GLY:O	1:A:472:GLY:HA3	1.95	0.67
1:A:370:LEU:HD12	1:A:370:LEU:C	2.15	0.67
1:E:72:TYR:CE2	1:E:206:SER:OG	2.47	0.67
1:A:227:ASN:O	1:A:231:VAL:HG23	1.94	0.66
1:E:312:LEU:O	1:E:435:LYS:NZ	2.27	0.66
1:B:164:ASN:ND2	1:B:208:TYR:CB	2.48	0.66
1:B:502:LEU:HA	1:B:510:LEU:O	1.95	0.66
3:C:505:HOH:O	1:A:565:LEU:HB2	1.96	0.66
1:A:165:LEU:HD13	1:A:167:THR:H	1.34	0.66
1:A:596:LYS:HA	1:A:596:LYS:HZ2	1.60	0.66
1:E:167:THR:HA	1:E:439:PHE:O	1.94	0.66
1:E:386:ILE:CG2	1:E:406:ILE:HD11	2.26	0.66
2:F:259:PHE:HZ	2:F:268:PRO:CA	2.07	0.66
1:B:107:VAL:HG11	1:B:266:GLN:HG2	1.77	0.66
1:B:294:ASP:OD2	1:B:563:THR:HB	1.95	0.66
1:E:225:HIS:CD2	1:E:228:TRP:HD1	2.13	0.66
2:F:9:PRO:HG2	2:F:50:TYR:HD2	1.61	0.66
2:F:237:ARG:O	2:F:237:ARG:HD3	1.95	0.66
1:B:543:ILE:HD11	1:B:546:PHE:CE1	2.30	0.66
2:C:90:MET:HE1	2:D:93:ILE:CD1	2.25	0.66
2:D:190:TYR:HE2	2:D:218:ILE:CG2	2.06	0.66
1:B:484:ALA:CB	1:B:585:TYR:HE2	2.08	0.66
2:C:65:HIS:CE1	2:C:94:ARG:NH2	2.61	0.66
2:D:85:ARG:HB2	2:D:137:LEU:HD13	1.78	0.66
1:A:92:GLN:NE2	1:A:92:GLN:H	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:165:LEU:HD11	1:A:167:THR:HA	1.76	0.66
1:A:294:ASP:O	3:A:705:HOH:O	2.12	0.66
1:A:516:PHE:HE2	1:A:521:THR:HG21	1.60	0.66
1:E:405:LEU:HD23	1:E:405:LEU:C	2.15	0.66
1:E:447:LEU:HD12	1:E:575:ILE:CG2	2.26	0.66
1:B:465:LEU:HD23	1:B:466:THR:CA	2.26	0.66
1:B:531:SER:C	1:B:532:ILE:HD13	2.16	0.66
2:D:24:PHE:HE2	2:D:155:TRP:HD1	0.78	0.66
2:D:139:SER:HB3	1:A:469:LYS:HE3	1.76	0.66
1:A:261:LEU:HD11	1:A:359:ILE:O	1.95	0.66
1:E:570:ILE:HD13	1:E:570:ILE:N	2.08	0.66
2:F:117:LYS:C	2:F:117:LYS:HD3	2.15	0.66
2:C:10:TRP:HA	2:C:50:TYR:CE1	2.29	0.66
2:C:134:HIS:NE2	2:D:97:ASN:OD1	2.04	0.66
1:A:383:THR:C	1:A:384:HIS:HD1	1.96	0.66
1:A:430:MET:HG2	1:A:566:PRO:CG	2.25	0.66
1:A:470:GLU:HA	1:A:470:GLU:OE1	1.95	0.66
1:E:363:GLY:HA3	3:E:708:HOH:O	1.90	0.66
1:E:469:LYS:HG3	1:E:470:GLU:HG2	1.77	0.66
1:B:209:THR:HG23	1:B:210:PHE:CD1	2.31	0.66
1:B:279:ASN:HA	1:B:300:LYS:HE3	1.78	0.66
2:C:43:ALA:O	2:C:47:VAL:HG23	1.96	0.66
2:C:125:PHE:CE1	2:C:146:CYS:SG	2.88	0.66
1:A:160:ILE:C	1:A:160:ILE:HD12	2.17	0.66
1:A:456:TYR:CB	1:A:537:LYS:O	2.43	0.66
1:E:349:ASP:O	1:E:351:GLU:OE1	2.12	0.66
2:F:336:HIS:O	2:F:340:VAL:CG2	2.44	0.66
1:B:172:ILE:HG22	1:B:443:PHE:CE2	2.31	0.66
1:B:455:SER:HB3	2:D:405:LYS:CA	2.24	0.66
2:C:14:ASP:O	2:C:17:VAL:HG23	1.96	0.66
2:D:353:ASP:OD2	2:D:353:ASP:N	2.27	0.66
2:D:410:HIS:HD2	2:D:413:TRP:CD1	2.11	0.66
1:A:162:LEU:O	1:A:162:LEU:HD22	1.96	0.66
1:A:408:LEU:H	1:A:408:LEU:CD1	1.97	0.66
1:E:318:THR:HG22	1:E:319:GLN:CD	2.15	0.66
2:F:235:ILE:CA	2:F:238:ILE:HD12	2.24	0.66
1:A:165:LEU:HD13	1:A:165:LEU:C	2.16	0.66
1:A:175:VAL:C	1:A:568:TRP:HD1	1.97	0.66
1:A:246:LYS:O	1:A:382:PRO:C	2.28	0.66
1:A:298:LEU:H	1:A:298:LEU:CD2	2.08	0.66
1:E:365:ILE:HD12	1:E:365:ILE:C	2.16	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:111:PRO:HG3	2:F:113:HIS:HE1	1.60	0.66
1:B:93:PHE:CD2	1:B:162:LEU:CD2	2.78	0.65
2:C:95:PHE:HE1	2:C:99:LEU:CD2	1.99	0.65
1:A:226:LYS:O	1:A:230:ASP:HB3	1.95	0.65
1:A:370:LEU:HD22	1:A:393:LEU:HD23	1.77	0.65
1:A:377:ILE:HD13	1:A:377:ILE:N	2.04	0.65
1:A:464:ALA:HA	1:A:509:PRO:HG2	1.76	0.65
1:E:405:LEU:C	1:E:406:ILE:HD13	2.16	0.65
2:F:249:ARG:HA	2:F:307:TRP:HZ2	1.61	0.65
2:F:273:ASP:CG	2:F:330:THR:CG2	2.60	0.65
1:B:172:ILE:CD1	1:B:179:PHE:C	2.65	0.65
1:B:276:LEU:O	1:B:276:LEU:HD23	1.96	0.65
1:B:318:THR:HG22	1:B:319:GLN:CG	2.26	0.65
2:C:186:LEU:CD1	2:C:224:HIS:CB	2.74	0.65
2:C:305:GLN:O	2:C:309:ARG:N	2.29	0.65
1:E:248:ILE:CD1	1:E:382:PRO:HG3	2.26	0.65
1:E:299:SER:HB3	1:E:317:SER:HB3	0.66	0.65
2:F:9:PRO:HG2	2:F:10:TRP:HE3	1.61	0.65
2:D:308:ILE:O	2:D:311:LEU:HB2	1.96	0.65
2:D:331:LEU:HA	2:D:346:LEU:HD13	1.76	0.65
1:A:463:SER:OG	1:A:555:ALA:HB2	1.96	0.65
1:A:583:LEU:CB	1:A:586:ILE:O	2.45	0.65
2:F:194:ARG:CB	2:F:251:LEU:CD2	2.74	0.65
1:B:82:LYS:HA	1:B:156:TYR:CB	2.27	0.65
1:B:528:LEU:HD12	1:B:528:LEU:C	2.15	0.65
1:B:572:SER:OG	1:B:575:ILE:CG1	2.45	0.65
1:A:483:GLU:OE1	1:A:532:ILE:CD1	2.43	0.65
1:E:78:ILE:HG21	1:E:98:GLN:HE22	1.61	0.65
1:E:103:ASP:CG	1:E:132:THR:OG1	2.34	0.65
1:E:235:LEU:HD12	1:E:247:VAL:HG21	1.75	0.65
1:E:247:VAL:HG13	1:E:386:ILE:HD13	1.77	0.65
1:E:340:GLU:OE2	1:E:379:ARG:NH1	2.28	0.65
1:B:310:LEU:HD22	1:B:310:LEU:N	2.12	0.65
1:B:418:ARG:N	1:B:419:TYR:HA	2.11	0.65
2:C:31:ILE:HG13	2:C:35:GLU:OE1	1.96	0.65
2:D:140:LEU:C	2:D:140:LEU:HD23	2.16	0.65
2:D:331:LEU:O	2:D:343:LEU:CD2	2.42	0.65
1:B:252:GLY:O	1:B:255:SER:HB2	1.96	0.65
1:B:340:GLU:O	1:B:344:ARG:HG2	1.96	0.65
1:B:387:TYR:HD1	1:B:388:LEU:H	1.44	0.65
2:C:220:GLY:O	2:C:224:HIS:CB	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:267:PHE:O	2:D:271:LEU:HG	1.96	0.65
1:A:322:TYR:HB2	1:A:523:PHE:CZ	2.30	0.65
1:E:165:LEU:HD23	1:E:167:THR:HB	1.79	0.65
1:E:543:ILE:HG13	1:E:544:PRO:HD2	1.76	0.65
1:B:492:VAL:CA	1:B:557:ILE:HD11	2.26	0.65
1:B:585:TYR:HD1	2:D:8:THR:O	1.80	0.65
1:A:499:GLU:OE2	1:A:515:GLU:O	2.14	0.65
1:B:63:PHE:H	1:B:88:ILE:HD11	1.57	0.65
2:C:214:TYR:O	2:C:218:ILE:CG1	2.42	0.65
2:D:334:THR:CB	2:D:342:LEU:HB3	2.26	0.65
1:A:278:ILE:HD13	1:A:278:ILE:C	2.16	0.65
1:A:434:HIS:HB3	1:A:442:ASP:O	1.97	0.65
1:A:490:PHE:CD1	1:A:523:PHE:HD1	2.12	0.65
1:A:508:LEU:CD1	1:A:509:PRO:HD3	2.27	0.65
2:F:122:PRO:CD	2:F:125:PHE:CD2	2.79	0.65
1:B:81:LEU:O	1:B:156:TYR:CB	2.44	0.65
2:C:8:THR:HG23	1:A:587:THR:HG23	1.78	0.65
2:D:28:ARG:HG3	2:D:28:ARG:HH11	1.62	0.65
1:A:118:PHE:CE1	1:A:306:HIS:HB3	2.32	0.65
1:A:250:ILE:HD13	1:A:373:THR:HG21	1.79	0.65
1:A:508:LEU:HD12	1:A:509:PRO:HD2	1.78	0.65
1:A:568:TRP:HA	1:A:571:ALA:O	1.96	0.65
1:E:321:HIS:CE1	1:E:522:GLU:OE2	2.50	0.65
1:B:529:VAL:HG22	1:B:540:ASN:O	1.97	0.65
2:C:22:LEU:CD2	2:C:43:ALA:CA	2.74	0.65
2:C:90:MET:HA	2:C:93:ILE:HD12	1.79	0.65
2:D:85:ARG:HB2	2:D:137:LEU:CD1	2.27	0.65
1:A:86:ASN:CB	1:A:130:GLN:HA	2.27	0.65
1:A:376:LEU:O	1:A:376:LEU:HD22	1.97	0.65
1:A:385:VAL:CG1	1:A:403:THR:HG21	2.27	0.65
1:E:233:LYS:HZ3	1:E:236:THR:HG1	1.42	0.65
2:F:70:LEU:HA	2:F:73:LEU:HD12	1.78	0.65
2:F:234:MET:HE1	2:F:271:LEU:CD1	2.26	0.65
1:B:161:LYS:NZ	1:B:163:THR:HG1	1.91	0.64
1:B:598:TRP:CE3	2:D:98:GLY:CA	2.80	0.64
2:C:30:GLN:OE1	2:C:30:GLN:HA	1.95	0.64
1:A:92:GLN:HE22	1:A:183:PHE:HB3	1.61	0.64
1:A:233:LYS:O	1:A:236:THR:OG1	2.15	0.64
1:A:575:ILE:HG12	1:A:576:VAL:N	2.12	0.64
1:E:78:ILE:HD11	1:E:161:LYS:CG	2.24	0.64
1:E:288:PRO:HB3	1:E:291:SER:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:289:GLU:O	1:E:290:TYR:HD2	1.80	0.64
1:E:365:ILE:HD12	1:E:393:LEU:CD1	2.27	0.64
1:E:438:ASP:CG	1:E:439:PHE:HD1	2.00	0.64
2:F:11:LYS:NZ	2:F:11:LYS:HB3	2.11	0.64
1:B:332:PRO:HD2	2:C:141:GLU:HB2	1.78	0.64
1:B:465:LEU:HD23	1:B:466:THR:H	1.55	0.64
2:C:11:LYS:CD	1:A:585:TYR:CE2	2.79	0.64
1:A:206:SER:O	1:A:211:TYR:HE2	1.80	0.64
1:E:78:ILE:HG13	1:E:161:LYS:HG3	1.79	0.64
1:E:169:LEU:HD11	1:E:183:PHE:HZ	1.53	0.64
1:B:364:TRP:O	1:B:365:ILE:HD13	1.96	0.64
1:B:478:LEU:HD23	1:B:479:GLU:HG2	1.78	0.64
2:C:11:LYS:HD2	1:A:585:TYR:OH	1.97	0.64
2:C:22:LEU:CD2	2:C:43:ALA:N	2.61	0.64
1:E:108:ILE:CG2	1:E:133:GLN:CB	2.75	0.64
1:E:325:PHE:HA	1:E:562:ASN:HB3	1.78	0.64
1:B:230:ASP:O	1:B:234:SER:N	2.30	0.64
1:B:479:GLU:OE2	1:B:508:LEU:CB	2.45	0.64
2:C:9:PRO:CB	2:C:50:TYR:HD1	2.11	0.64
2:C:43:ALA:HA	2:C:46:LEU:HD13	1.80	0.64
2:D:267:PHE:O	2:D:271:LEU:N	2.28	0.64
1:A:95:LEU:HD21	1:A:116:MET:HE3	1.79	0.64
1:A:165:LEU:O	1:A:165:LEU:HD22	1.96	0.64
1:A:269:LEU:CD2	1:A:278:ILE:HG22	2.28	0.64
1:E:228:TRP:CZ3	1:E:263:LEU:HD22	2.32	0.64
1:E:235:LEU:HD13	1:E:247:VAL:CG2	2.27	0.64
1:B:468:LEU:HD13	1:B:561:GLY:CA	2.04	0.64
2:C:10:TRP:CZ2	2:C:16:VAL:HG21	2.32	0.64
2:C:40:TYR:HE2	2:C:67:PHE:CD1	2.10	0.64
2:C:46:LEU:HD12	2:C:46:LEU:H	1.62	0.64
2:D:154:VAL:CG2	2:D:159:TRP:HD1	2.10	0.64
1:E:344:ARG:NH2	1:E:379:ARG:HH22	1.94	0.64
1:E:570:ILE:HA	1:E:575:ILE:HD12	1.79	0.64
1:B:486:ILE:HD11	1:B:563:THR:C	2.17	0.64
1:B:486:ILE:CG2	1:B:565:LEU:HG	2.27	0.64
2:C:218:ILE:HG23	2:C:255:MET:CE	2.28	0.64
2:D:24:PHE:HE2	2:D:155:TRP:CG	2.05	0.64
1:A:170:GLU:HB2	1:A:185:GLN:CD	2.18	0.64
1:A:224:LYS:CB	1:A:228:TRP:HE3	2.10	0.64
1:E:98:GLN:O	1:E:142:ASN:CB	2.46	0.64
1:E:433:PHE:CD1	1:E:544:PRO:HD3	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:522:GLU:OE2	1:E:522:GLU:HA	1.97	0.64
1:A:162:LEU:HD21	1:A:210:PHE:HE2	1.56	0.64
1:A:239:TYR:OH	1:A:276:LEU:HD12	1.97	0.64
1:A:382:PRO:CB	1:A:385:VAL:HG23	2.27	0.64
1:B:452:ILE:HD12	1:B:543:ILE:HG12	1.79	0.64
2:C:415:PRO:C	2:C:416:LYS:HD2	2.18	0.64
1:A:232:ILE:CG1	1:A:264:LEU:CD2	2.71	0.64
1:A:568:TRP:HE3	1:A:568:TRP:H	1.44	0.64
1:E:248:ILE:CD1	1:E:382:PRO:CG	2.76	0.64
2:F:22:LEU:HD11	2:F:42:GLU:HB3	1.78	0.64
2:F:111:PRO:O	2:F:115:LEU:HD12	1.98	0.64
1:B:454:VAL:HG13	2:D:407:PHE:CD1	2.27	0.64
2:C:148:ASP:C	2:C:151:ILE:HG22	2.17	0.64
1:A:76:TYR:CD2	1:A:78:ILE:HD13	2.32	0.64
1:A:322:TYR:CD1	1:A:523:PHE:CE1	2.85	0.64
1:A:350:GLY:C	1:A:357:LEU:HD11	2.16	0.64
1:A:398:ASP:OD2	1:A:398:ASP:N	2.25	0.64
1:A:446:LEU:O	1:A:542:TYR:HE2	1.80	0.64
1:E:324:GLY:C	1:E:325:PHE:HD1	2.00	0.64
1:E:530:HIS:CE1	1:E:570:ILE:HG22	2.30	0.64
2:F:259:PHE:CE1	2:F:267:PHE:HB2	2.29	0.64
1:B:175:VAL:HG23	1:B:176:CYS:N	2.13	0.64
1:B:484:ALA:CB	1:B:585:TYR:CD2	2.81	0.64
1:A:63:PHE:HZ	1:A:212:PRO:CB	1.99	0.64
1:A:454:VAL:O	1:A:538:ILE:CG2	2.45	0.64
1:E:118:PHE:CD1	1:E:306:HIS:HB3	2.33	0.64
1:E:282:ASP:HA	1:E:360:ASN:HB3	1.80	0.64
1:B:528:LEU:CD1	3:B:704:HOH:O	2.38	0.63
2:C:31:ILE:HD11	2:C:35:GLU:OE2	1.98	0.63
2:C:247:HIS:O	2:C:250:ALA:HB3	1.98	0.63
2:F:16:VAL:HA	2:F:19:LEU:HB2	1.79	0.63
2:C:89:SER:O	2:C:93:ILE:HG13	1.97	0.63
1:A:440:LYS:O	1:A:441:PHE:HD2	1.80	0.63
1:A:478:LEU:HD13	1:A:510:LEU:CD1	2.17	0.63
1:E:530:HIS:CE1	1:E:570:ILE:HG23	2.32	0.63
2:F:38:ARG:HH21	2:F:38:ARG:CG	2.12	0.63
2:F:40:TYR:CG	2:F:67:PHE:HD2	2.16	0.63
2:F:118:LYS:HB2	2:F:118:LYS:NZ	2.13	0.63
2:C:65:HIS:CE1	2:C:94:ARG:CZ	2.81	0.63
1:A:224:LYS:HB3	1:A:228:TRP:HB3	1.81	0.63
1:A:252:GLY:C	1:A:255:SER:HG	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:385:VAL:CB	1:A:403:THR:CG2	2.46	0.63
1:A:464:ALA:CA	1:A:509:PRO:HG2	2.28	0.63
1:E:236:THR:HG21	1:E:267:HIS:HB3	1.81	0.63
1:E:530:HIS:NE2	1:E:570:ILE:HG23	2.08	0.63
1:B:465:LEU:HD23	1:B:465:LEU:C	2.19	0.63
1:B:532:ILE:HD12	1:B:539:MET:CB	2.28	0.63
2:D:259:PHE:CE1	2:D:268:PRO:CA	2.81	0.63
2:D:266:ASP:O	2:D:270:GLY:N	2.32	0.63
1:A:294:ASP:C	1:A:323:VAL:HG22	2.18	0.63
1:A:420:SER:CA	1:A:423:GLN:HB3	2.28	0.63
1:E:438:ASP:OD2	1:E:439:PHE:HD1	1.80	0.63
1:E:486:ILE:HG22	1:E:526:LEU:HD22	1.81	0.63
1:E:598:TRP:HD1	1:E:599:LYS:H	1.43	0.63
2:C:71:MET:O	2:C:75:SER:OG	2.07	0.63
2:D:307:TRP:O	2:D:311:LEU:HG	1.98	0.63
1:A:117:LYS:CD	1:A:439:PHE:CZ	2.64	0.63
1:E:310:LEU:HD22	1:E:310:LEU:H	1.62	0.63
1:B:358:LEU:C	1:B:359:ILE:HG13	2.19	0.63
2:C:99:LEU:O	2:C:102:PRO:HD2	1.98	0.63
2:C:304:ALA:O	2:C:307:TRP:N	2.32	0.63
2:D:320:ASP:OD1	2:D:321:ASP:N	2.31	0.63
1:A:569:GLU:OE1	1:A:570:ILE:N	2.32	0.63
1:E:100:GLY:CA	1:E:111:SER:OG	2.46	0.63
1:E:279:ASN:CB	1:E:356:SER:O	2.46	0.63
1:E:565:LEU:HD23	1:E:565:LEU:C	2.17	0.63
2:F:417:PRO:HD2	2:F:419:GLY:O	1.98	0.63
1:B:234:SER:HA	1:B:237:GLU:OE2	1.98	0.63
1:B:388:LEU:HD13	1:B:406:ILE:CG1	2.24	0.63
2:C:128:PHE:HD2	2:C:128:PHE:O	1.81	0.63
2:C:280:TYR:HB2	2:C:334:THR:HG22	1.76	0.63
1:E:123:SER:HB2	1:E:182:LEU:HD21	1.79	0.63
1:B:103:ASP:CA	1:B:108:ILE:HA	2.23	0.63
1:B:481:SER:O	1:B:485:THR:HG21	1.98	0.63
1:A:175:VAL:C	1:A:568:TRP:CD1	2.72	0.63
1:E:318:THR:CG2	1:E:319:GLN:OE1	2.46	0.63
2:F:249:ARG:HA	2:F:252:PHE:HB2	1.81	0.63
1:B:164:ASN:OD1	1:B:209:THR:HG23	1.95	0.63
1:B:180:LYS:HD3	1:B:181:ASN:H	1.64	0.63
1:B:227:ASN:O	1:B:231:VAL:HG23	1.99	0.63
1:B:258:SER:OG	1:B:289:GLU:OE1	2.15	0.63
1:B:523:PHE:CZ	1:B:525:ARG:C	2.72	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:9:PRO:HB2	2:C:50:TYR:CD1	2.31	0.63
2:C:99:LEU:HD13	2:C:121:LEU:CD2	2.29	0.63
2:D:24:PHE:HD2	2:D:155:TRP:NE1	1.95	0.63
1:A:112:GLY:H	1:A:140:LEU:HA	1.64	0.63
1:A:117:LYS:CE	1:A:439:PHE:CE2	2.78	0.63
1:A:167:THR:O	1:A:168:HIS:HB2	1.97	0.63
1:A:572:SER:OG	1:A:575:ILE:HD12	1.99	0.63
2:F:354:PRO:CD	2:F:355:VAL:N	2.59	0.63
1:B:81:LEU:HD23	1:B:87:LEU:HD11	1.81	0.62
1:A:63:PHE:CE2	1:A:214:THR:HG22	2.33	0.62
1:A:368:TYR:CE1	1:A:372:LEU:HD23	2.32	0.62
1:E:475:MET:O	1:E:478:LEU:HD22	1.98	0.62
2:F:20:LYS:NZ	2:F:162:VAL:CA	2.61	0.62
2:F:247:HIS:O	2:F:250:ALA:HB3	1.98	0.62
1:B:452:ILE:CD1	1:B:543:ILE:HG12	2.28	0.62
1:B:598:TRP:HB2	2:D:58:HIS:CB	2.29	0.62
2:C:49:MET:HE2	1:A:481:SER:HB2	1.81	0.62
2:C:197:ASN:ND2	2:C:197:ASN:O	2.33	0.62
2:D:85:ARG:O	2:D:89:SER:HB2	1.98	0.62
2:D:95:PHE:O	2:D:99:LEU:HG	1.97	0.62
1:E:288:PRO:O	1:E:289:GLU:HB2	1.98	0.62
1:E:324:GLY:O	1:E:562:ASN:N	2.25	0.62
2:F:247:HIS:O	2:F:250:ALA:CA	2.47	0.62
1:A:104:ILE:HD12	1:A:109:TYR:HD2	1.63	0.62
1:A:107:VAL:HG23	1:A:109:TYR:CE2	2.34	0.62
1:A:125:SER:HB3	1:A:222:VAL:CG2	2.25	0.62
1:A:167:THR:OG1	1:A:169:LEU:HB2	2.00	0.62
1:E:104:ILE:HG23	1:E:129:ILE:HD11	1.81	0.62
1:E:104:ILE:HG23	1:E:129:ILE:HD12	1.79	0.62
1:E:281:MET:SD	1:E:342:LEU:HD22	2.38	0.62
1:E:322:TYR:HB3	1:E:490:PHE:CZ	2.34	0.62
1:E:364:TRP:CE3	1:E:369:GLY:HA2	2.34	0.62
2:F:10:TRP:CB	2:F:15:GLU:OE2	2.48	0.62
2:F:259:PHE:CZ	2:F:268:PRO:CA	2.82	0.62
1:B:248:ILE:HD11	1:B:359:ILE:HD13	1.81	0.62
1:B:380:VAL:HG11	1:B:382:PRO:HB3	1.81	0.62
2:C:325:SER:OG	2:C:359:LYS:HE3	1.99	0.62
1:E:224:LYS:CB	1:E:228:TRP:CE3	2.82	0.62
2:F:23:PHE:CD2	2:F:43:ALA:HB1	2.34	0.62
2:D:9:PRO:HD2	2:D:10:TRP:CZ3	2.35	0.62
1:A:465:LEU:HG	1:A:558:MET:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:99:ARG:HA	1:E:142:ASN:OD1	1.95	0.62
1:E:118:PHE:CE1	1:E:306:HIS:HB3	2.35	0.62
1:E:301:ILE:CG2	1:E:315:THR:CG2	2.68	0.62
1:E:318:THR:CB	1:E:319:GLN:OE1	2.47	0.62
2:F:10:TRP:HE3	2:F:50:TYR:CD2	2.18	0.62
2:F:328:ILE:HA	2:F:331:LEU:HD22	1.82	0.62
2:F:420:VAL:O	2:F:420:VAL:HG23	2.00	0.62
2:C:59:ILE:HG12	1:A:596:LYS:CB	2.26	0.62
2:C:90:MET:HE1	2:D:93:ILE:HD13	1.80	0.62
1:A:120:ASN:HD22	1:A:120:ASN:C	2.02	0.62
1:A:211:TYR:CD1	1:A:212:PRO:HD2	2.34	0.62
1:A:569:GLU:OE1	1:A:570:ILE:HG12	1.99	0.62
2:F:139:SER:OG	2:F:142:MET:HB2	1.99	0.62
1:B:462:ILE:CA	1:B:556:ILE:CB	2.65	0.62
1:B:479:GLU:OE2	1:B:508:LEU:N	2.32	0.62
1:B:484:ALA:HB2	1:B:585:TYR:CE2	2.32	0.62
2:C:125:PHE:HZ	2:C:150:ALA:N	1.96	0.62
2:D:77:GLU:O	2:D:77:GLU:HG2	1.98	0.62
2:D:189:GLN:O	2:D:193:ILE:HG13	1.99	0.62
1:A:87:LEU:HD22	1:A:212:PRO:HB3	1.81	0.62
1:E:225:HIS:CB	1:E:228:TRP:CB	2.70	0.62
1:E:252:GLY:C	1:E:255:SER:HG	2.03	0.62
1:E:321:HIS:CD2	1:E:341:GLN:NE2	2.68	0.62
1:B:249:VAL:O	1:B:361:THR:OG1	2.18	0.62
1:B:521:THR:O	1:B:522:GLU:OE2	2.17	0.62
2:D:131:SER:O	2:D:135:ASP:HB2	2.00	0.62
2:F:280:TYR:N	2:F:338:LEU:CD2	2.63	0.62
1:B:511:LEU:HD23	1:B:512:PRO:N	2.15	0.62
1:B:334:ARG:CG	1:B:513:TYR:OH	2.47	0.62
2:C:8:THR:HG21	1:A:587:THR:CG2	2.29	0.62
1:A:510:LEU:HG	1:A:510:LEU:O	1.98	0.62
1:E:97:ILE:HD13	1:E:110:HIS:O	2.00	0.62
1:E:373:THR:O	1:E:377:ILE:HG12	2.00	0.62
1:E:533:ASP:OD1	1:E:535:GLU:N	2.33	0.62
1:B:316:ASP:OD1	1:B:316:ASP:N	2.31	0.61
2:C:96:VAL:C	2:C:99:LEU:HD12	2.20	0.61
2:C:213:GLU:O	2:C:216:THR:OG1	2.14	0.61
2:C:277:SER:O	2:C:280:TYR:HD2	1.83	0.61
2:D:320:ASP:O	2:D:324:VAL:HG23	2.00	0.61
1:A:119:ILE:HG22	1:A:119:ILE:O	2.00	0.61
1:A:176:CYS:SG	1:A:178:LEU:HB2	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:257:LYS:HG3	1:E:258:SER:N	2.13	0.61
1:E:283:LEU:HD13	1:E:339:VAL:CG1	2.30	0.61
1:E:524:PHE:HD2	1:E:525:ARG:HB2	1.59	0.61
2:F:133:THR:HG22	2:F:134:HIS:CD2	2.35	0.61
1:B:62:ASN:CB	1:B:216:PRO:CB	2.78	0.61
2:C:22:LEU:HD23	2:C:43:ALA:CA	2.30	0.61
2:D:28:ARG:HH11	2:D:28:ARG:CG	2.13	0.61
1:A:165:LEU:HD13	1:A:166:ASP:C	2.16	0.61
2:F:82:ASP:O	2:F:86:LEU:HD12	2.00	0.61
2:F:120:ASP:HB3	2:F:157:HIS:HE2	1.64	0.61
1:B:134:VAL:O	1:B:134:VAL:HG12	2.00	0.61
1:B:236:THR:O	1:B:239:TYR:HB3	2.00	0.61
2:C:214:TYR:O	2:C:218:ILE:CD1	2.48	0.61
2:D:47:VAL:HG11	2:D:64:ALA:HB2	1.82	0.61
1:A:297:SER:HB2	1:A:319:GLN:O	2.00	0.61
1:E:184:TRP:CE3	1:E:211:TYR:CD2	2.87	0.61
1:E:247:VAL:CG1	1:E:386:ILE:HD13	2.30	0.61
1:B:492:VAL:HB	1:B:557:ILE:HD11	1.82	0.61
2:D:122:PRO:HD2	2:D:125:PHE:CG	2.36	0.61
1:A:245:ILE:C	1:A:356:SER:OG	2.39	0.61
1:A:379:ARG:O	1:A:379:ARG:HD3	2.00	0.61
1:A:438:ASP:OD2	1:A:439:PHE:N	2.34	0.61
1:E:128:LEU:HD22	1:E:129:ILE:H	1.66	0.61
1:B:118:PHE:CZ	1:B:306:HIS:CG	2.88	0.61
1:A:175:VAL:HG23	1:A:176:CYS:HB2	1.81	0.61
1:A:184:TRP:HZ2	1:A:211:TYR:CG	2.18	0.61
1:E:227:ASN:O	1:E:231:VAL:HG23	2.00	0.61
1:E:235:LEU:N	1:E:235:LEU:HD23	2.16	0.61
2:F:24:PHE:CD1	2:F:155:TRP:CZ3	2.56	0.61
2:F:356:ILE:O	2:F:360:ILE:CG1	2.48	0.61
1:B:468:LEU:CD2	1:B:559:VAL:HG13	2.29	0.61
2:C:418:PHE:CE2	1:A:447:LEU:HD23	2.35	0.61
2:D:149:ARG:CG	2:D:149:ARG:HH11	2.13	0.61
2:F:356:ILE:O	2:F:360:ILE:CD1	2.48	0.61
1:B:572:SER:OG	1:B:575:ILE:HD11	2.00	0.61
2:D:331:LEU:C	2:D:343:LEU:HD21	2.21	0.61
1:A:162:LEU:HD22	1:A:162:LEU:C	2.21	0.61
1:E:94:VAL:HG23	1:E:165:LEU:HD13	1.83	0.61
1:E:235:LEU:CD1	1:E:247:VAL:CG2	2.77	0.61
1:E:264:LEU:HD12	1:E:358:LEU:CD1	2.31	0.61
1:E:335:TYR:O	1:E:339:VAL:CG2	2.44	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:370:LEU:O	1:E:370:LEU:HD13	1.99	0.61
1:E:547:ARG:C	1:E:548:THR:HG23	2.21	0.61
2:F:33:ARG:HA	2:F:36:LEU:HB2	1.82	0.61
1:B:368:TYR:CD2	2:C:124:LEU:HD21	2.32	0.61
1:A:72:TYR:CZ	1:A:206:SER:CB	2.53	0.61
1:A:466:THR:OG1	1:A:511:LEU:O	2.17	0.61
1:E:224:LYS:HB3	1:E:228:TRP:CE3	2.36	0.61
2:F:158:TYR:HD1	2:F:159:TRP:NE1	1.99	0.61
1:B:118:PHE:HD1	1:B:306:HIS:C	2.04	0.61
1:B:598:TRP:CD1	3:D:502:HOH:O	2.51	0.61
1:B:598:TRP:CD2	2:D:98:GLY:HA2	2.35	0.61
1:A:451:PRO:HB2	1:A:540:ASN:HB3	1.82	0.61
1:A:528:LEU:HD21	1:A:569:GLU:OE2	2.01	0.61
1:E:248:ILE:HD12	1:E:382:PRO:HG3	1.83	0.61
2:F:40:TYR:CD2	2:F:67:PHE:HD2	2.19	0.61
1:B:81:LEU:HD22	1:B:87:LEU:HD21	1.82	0.61
1:B:92:GLN:HE22	1:B:184:TRP:H	1.47	0.61
1:B:598:TRP:HB2	2:D:58:HIS:CG	2.36	0.61
2:D:122:PRO:HD2	2:D:125:PHE:CB	2.30	0.61
1:A:95:LEU:HA	1:A:162:LEU:CA	2.30	0.61
1:A:334:ARG:HG3	1:A:513:TYR:HH	1.60	0.61
1:E:232:ILE:HG23	1:E:233:LYS:N	2.15	0.61
2:F:43:ALA:O	2:F:47:VAL:HG23	2.00	0.61
2:F:215:TRP:HA	2:F:215:TRP:HE3	1.66	0.61
1:B:81:LEU:HD21	1:B:87:LEU:CG	2.31	0.60
1:B:81:LEU:C	1:B:156:TYR:CB	2.70	0.60
1:B:432:TYR:CD2	1:B:526:LEU:HD13	2.33	0.60
2:C:22:LEU:HB3	2:C:43:ALA:HB2	1.82	0.60
1:E:77:VAL:HG12	1:E:79:PHE:CE2	2.34	0.60
1:E:364:TRP:HZ3	1:E:368:TYR:CD1	2.19	0.60
1:E:451:PRO:CG	2:F:413:TRP:CZ3	2.82	0.60
1:E:572:SER:OG	1:E:575:ILE:HD11	2.00	0.60
2:F:103:ASN:OD1	2:F:115:LEU:HD21	2.01	0.60
1:B:76:TYR:CB	1:B:163:THR:HA	2.31	0.60
1:B:359:ILE:HG22	1:B:360:ASN:N	2.16	0.60
2:C:11:LYS:HD2	1:A:585:TYR:CZ	2.37	0.60
2:C:195:ARG:HH11	2:C:195:ARG:CG	2.14	0.60
2:C:230:PHE:CA	2:C:233:VAL:HG23	2.30	0.60
1:A:66:ASP:HA	1:A:67:ASP:CB	2.29	0.60
1:A:232:ILE:HG12	1:A:264:LEU:HD23	1.80	0.60
1:E:99:ARG:HA	1:E:142:ASN:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:233:LYS:HD2	1:E:236:THR:OG1	2.01	0.60
1:B:111:SER:CB	1:B:142:ASN:CB	2.79	0.60
1:B:156:TYR:N	3:B:708:HOH:O	2.34	0.60
1:B:211:TYR:HD1	1:B:212:PRO:N	1.99	0.60
1:B:379:ARG:HD3	1:B:379:ARG:C	2.22	0.60
1:A:78:ILE:CG1	1:A:161:LYS:HB3	2.28	0.60
1:A:452:ILE:HG22	1:A:452:ILE:O	2.00	0.60
1:A:520:SER:C	1:A:521:THR:HG23	2.21	0.60
1:E:63:PHE:CB	1:E:86:ASN:O	2.49	0.60
1:E:444:GLN:NE2	1:E:444:GLN:O	2.27	0.60
1:E:586:ILE:HA	2:F:6:ARG:O	2.01	0.60
2:F:113:HIS:HA	2:F:116:ALA:HB3	1.83	0.60
1:B:209:THR:HG23	1:B:210:PHE:HD1	1.65	0.60
1:B:473:ILE:HD11	2:D:49:MET:HA	1.83	0.60
2:C:305:GLN:CA	2:C:308:ILE:HB	2.30	0.60
1:A:93:PHE:HB3	1:A:210:PHE:HB3	1.82	0.60
1:E:180:LYS:HE2	1:E:187:ASP:HB3	1.83	0.60
1:E:308:ASN:O	1:E:310:LEU:HD22	2.01	0.60
1:E:337:LEU:HD12	1:E:337:LEU:C	2.20	0.60
1:B:164:ASN:ND2	1:B:208:TYR:HD1	1.97	0.60
1:B:465:LEU:HD13	1:B:482:ILE:CG2	2.28	0.60
2:D:217:CYS:O	2:D:221:ILE:HD12	2.02	0.60
1:A:95:LEU:HG	1:A:116:MET:CE	2.31	0.60
1:A:107:VAL:HG21	1:A:109:TYR:CZ	2.36	0.60
1:A:232:ILE:CD1	1:A:264:LEU:CG	2.67	0.60
1:A:453:GLN:HG2	1:A:540:ASN:OD1	2.00	0.60
1:A:456:TYR:CB	1:A:537:LYS:HA	2.31	0.60
1:A:483:GLU:HA	1:A:529:VAL:HG12	1.83	0.60
2:F:89:SER:O	2:F:93:ILE:HG13	2.00	0.60
2:F:249:ARG:HA	2:F:307:TRP:CZ2	2.36	0.60
1:B:230:ASP:HA	1:B:233:LYS:HB3	1.83	0.60
2:D:267:PHE:N	2:D:268:PRO:HD2	2.17	0.60
1:A:297:SER:HB3	1:A:320:CYS:HA	1.84	0.60
1:E:281:MET:HG2	1:E:342:LEU:HD21	1.79	0.60
1:E:299:SER:CA	1:E:317:SER:CA	2.77	0.60
1:E:447:LEU:HD12	1:E:575:ILE:HG21	1.76	0.60
2:F:353:ASP:CB	2:F:354:PRO:CD	2.69	0.60
1:B:60:SER:O	1:B:216:PRO:HB3	2.02	0.60
1:B:103:ASP:CA	1:B:107:VAL:O	2.48	0.60
1:B:528:LEU:HD12	1:B:528:LEU:O	2.01	0.60
2:C:96:VAL:HA	2:C:99:LEU:HD12	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:232:ASN:HA	2:C:235:ILE:CD1	2.31	0.60
1:E:107:VAL:HG21	1:E:266:GLN:HE21	1.66	0.60
1:E:438:ASP:O	1:E:441:PHE:HE2	1.85	0.60
2:F:117:LYS:HE2	2:F:117:LYS:O	2.01	0.60
1:B:165:LEU:H	1:B:209:THR:HG21	1.66	0.60
1:B:225:HIS:HD2	1:B:228:TRP:CE3	2.20	0.60
1:B:465:LEU:HD11	1:B:482:ILE:HG22	1.84	0.60
2:C:177:GLU:OE1	2:C:180:ILE:HD13	2.01	0.60
2:D:327:MET:O	2:D:331:LEU:HG	2.02	0.60
1:A:596:LYS:HB2	1:A:596:LYS:HZ3	1.67	0.60
1:E:529:VAL:HG12	1:E:529:VAL:O	2.02	0.60
2:F:237:ARG:HE	2:F:240:SER:HB2	1.66	0.60
1:B:268:MET:SD	1:B:278:ILE:HD12	2.42	0.60
1:B:598:TRP:CZ3	2:D:58:HIS:CE1	2.89	0.60
2:C:125:PHE:CE2	2:C:150:ALA:HA	2.36	0.60
2:C:373:ASP:C	2:C:374:THR:HG22	2.09	0.60
1:A:327:SER:OG	1:A:329:LYS:CE	2.48	0.60
2:F:69:ALA:O	2:F:73:LEU:HD12	2.02	0.60
1:B:469:LYS:HG3	1:B:470:GLU:N	2.17	0.60
2:C:254:PRO:HA	2:C:257:ASN:ND2	2.16	0.60
2:C:276:LEU:HD11	2:C:331:LEU:CD2	2.31	0.60
1:A:170:GLU:CB	1:A:185:GLN:CD	2.70	0.60
1:E:103:ASP:HA	1:E:107:VAL:O	2.00	0.60
1:E:294:ASP:HB3	1:E:322:TYR:HE2	1.65	0.60
1:B:350:GLY:CA	1:B:357:LEU:HD13	2.27	0.59
2:C:96:VAL:CA	2:C:99:LEU:HD12	2.32	0.59
2:D:149:ARG:HG3	2:D:149:ARG:HH11	1.66	0.59
1:A:162:LEU:HD21	1:A:210:PHE:HD2	1.64	0.59
1:A:226:LYS:O	1:A:230:ASP:CA	2.49	0.59
1:E:392:THR:C	1:E:393:LEU:HD12	2.22	0.59
1:A:95:LEU:HA	1:A:162:LEU:HB3	1.82	0.59
1:A:473:ILE:HG22	1:A:474:GLY:N	2.16	0.59
1:B:171:SER:O	1:B:174:ARG:CG	2.43	0.59
2:D:89:SER:HA	2:D:128:PHE:CZ	2.37	0.59
2:D:190:TYR:O	2:D:190:TYR:HD1	1.84	0.59
2:D:252:PHE:CB	2:D:307:TRP:HH2	2.15	0.59
1:A:120:ASN:O	1:A:120:ASN:ND2	2.22	0.59
1:A:206:SER:HB2	1:A:208:TYR:HE2	1.67	0.59
1:E:89:VAL:CG1	1:E:93:PHE:CE1	2.86	0.59
1:E:107:VAL:HG22	1:E:266:GLN:HE21	1.66	0.59
1:E:213:ILE:HG22	1:E:213:ILE:O	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:226:LYS:CA	1:E:229:MET:HB3	2.28	0.59
1:E:571:ALA:CB	1:E:586:ILE:HD13	2.28	0.59
1:E:586:ILE:C	2:F:8:THR:HG23	2.23	0.59
2:F:83:THR:HA	2:F:86:LEU:HD12	1.83	0.59
1:B:368:TYR:HB2	2:C:124:LEU:HD21	1.84	0.59
1:A:479:GLU:O	1:A:482:ILE:CG1	2.49	0.59
1:A:483:GLU:OE1	1:A:531:SER:N	2.35	0.59
1:A:530:HIS:CD2	1:A:531:SER:CB	2.85	0.59
1:A:530:HIS:O	1:A:540:ASN:HB2	2.03	0.59
1:A:596:LYS:CB	1:A:596:LYS:HZ3	2.16	0.59
1:E:445:PRO:CG	1:E:448:PHE:CZ	2.85	0.59
2:F:9:PRO:HG2	2:F:10:TRP:CZ3	2.36	0.59
2:F:301:PHE:CE1	2:F:304:ALA:CB	2.86	0.59
1:B:511:LEU:HD22	1:B:512:PRO:O	2.02	0.59
1:B:544:PRO:HG2	1:B:545:GLN:H	1.66	0.59
2:D:12:SER:OG	2:D:14:ASP:HB2	2.03	0.59
2:D:230:PHE:O	2:D:233:VAL:HB	2.03	0.59
1:A:322:TYR:HB2	1:A:523:PHE:CD1	2.37	0.59
1:E:173:GLY:HA2	1:E:176:CYS:O	2.01	0.59
1:E:264:LEU:HD11	1:E:358:LEU:HD11	1.81	0.59
1:E:322:TYR:CZ	1:E:324:GLY:HA2	2.36	0.59
2:F:212:LYS:O	2:F:216:THR:HG23	2.03	0.59
2:C:11:LYS:HG3	1:A:585:TYR:CD2	2.38	0.59
2:C:232:ASN:HA	2:C:278:LYS:HZ3	1.67	0.59
1:A:385:VAL:O	1:A:404:ASN:OD1	2.20	0.59
1:A:524:PHE:CE2	1:A:525:ARG:HG2	2.37	0.59
2:F:122:PRO:CD	2:F:125:PHE:CE2	2.85	0.59
2:F:245:TRP:CB	2:F:247:HIS:CD2	2.86	0.59
1:B:107:VAL:HG23	1:B:109:TYR:CE2	2.37	0.59
1:B:226:LYS:O	1:B:230:ASP:N	2.31	0.59
1:B:310:LEU:O	1:B:311:SER:HB2	2.02	0.59
1:B:529:VAL:HG23	1:B:540:ASN:C	2.22	0.59
2:C:80:LEU:HD23	2:D:48:GLU:OE1	2.03	0.59
2:C:245:TRP:CE2	2:C:247:HIS:CB	2.85	0.59
1:A:95:LEU:CD2	1:A:118:PHE:HE2	2.16	0.59
1:A:389:ASN:OD1	1:A:408:LEU:HA	2.02	0.59
1:A:427:LEU:HD23	1:A:427:LEU:C	2.23	0.59
1:E:94:VAL:CG2	1:E:165:LEU:HD13	2.33	0.59
1:E:283:LEU:CD1	1:E:339:VAL:CG1	2.81	0.59
1:E:466:THR:HG21	1:E:516:PHE:CG	2.37	0.59
2:F:301:PHE:CD1	2:F:304:ALA:CB	2.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:GLY:H	1:B:140:LEU:CB	2.15	0.59
1:B:223:ILE:CD1	1:B:224:LYS:H	2.09	0.59
2:D:328:ILE:HD11	2:D:356:ILE:HG22	1.85	0.59
1:A:133:GLN:HE21	1:A:134:VAL:N	2.00	0.59
1:A:250:ILE:CD1	1:A:373:THR:HG21	2.32	0.59
1:A:325:PHE:CD2	1:A:562:ASN:CB	2.86	0.59
1:A:346:TYR:O	1:A:350:GLY:CA	2.50	0.59
1:A:525:ARG:CD	1:A:544:PRO:HG2	2.31	0.59
1:E:281:MET:CE	1:E:342:LEU:HD23	2.32	0.59
1:E:321:HIS:HE1	1:E:522:GLU:OE2	1.85	0.59
1:E:364:TRP:CE3	1:E:369:GLY:CA	2.85	0.59
2:F:23:PHE:O	2:F:24:PHE:HD2	1.86	0.59
1:B:248:ILE:HB	1:B:385:VAL:HG22	1.84	0.59
1:B:433:PHE:HB3	1:B:446:LEU:HD11	1.84	0.59
2:C:100:LEU:O	2:C:103:ASN:CB	2.51	0.59
2:C:251:LEU:O	2:C:254:PRO:HD2	2.02	0.59
2:C:304:ALA:O	2:C:307:TRP:CB	2.51	0.59
1:A:63:PHE:HZ	1:A:212:PRO:CG	2.15	0.59
1:A:334:ARG:HG3	1:A:513:TYR:CZ	2.34	0.59
1:A:368:TYR:HE1	1:A:372:LEU:HD23	1.64	0.59
1:A:533:ASP:OD1	1:A:535:GLU:N	2.35	0.59
1:E:283:LEU:HD13	1:E:339:VAL:HG13	1.85	0.59
2:F:110:ILE:CG1	2:F:115:LEU:HD11	2.27	0.59
1:B:118:PHE:CD1	1:B:306:HIS:O	2.51	0.59
1:B:225:HIS:HB2	1:B:227:ASN:ND2	2.18	0.59
1:A:63:PHE:CZ	1:A:212:PRO:CG	2.86	0.59
1:A:95:LEU:HD21	1:A:116:MET:CE	2.33	0.59
1:A:238:LEU:HD12	1:A:238:LEU:O	2.02	0.59
1:A:286:GLY:CA	1:A:326:ASN:OD1	2.51	0.59
1:E:301:ILE:HG12	1:E:315:THR:CG2	2.33	0.59
1:E:468:LEU:HD23	1:E:469:LYS:H	1.68	0.59
1:B:327:SER:HB3	1:B:329:LYS:HE2	1.84	0.58
1:B:487:VAL:O	1:B:527:ALA:O	2.21	0.58
2:C:137:LEU:HD12	2:C:138:PRO:HD3	1.84	0.58
2:C:227:MET:SD	2:C:227:MET:N	2.60	0.58
2:C:334:THR:OG1	2:C:339:ASN:OD1	2.20	0.58
2:D:246:GLU:OE1	2:D:246:GLU:HA	2.01	0.58
1:A:107:VAL:CG2	1:A:109:TYR:CZ	2.86	0.58
1:E:93:PHE:HB3	1:E:210:PHE:CG	2.37	0.58
1:E:228:TRP:HZ3	1:E:263:LEU:HD22	1.66	0.58
1:E:547:ARG:O	1:E:548:THR:HG23	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:239:TYR:OH	1:B:276:LEU:HD23	2.03	0.58
1:B:529:VAL:HG13	1:B:529:VAL:O	2.03	0.58
1:B:598:TRP:CB	2:D:58:HIS:HB2	2.33	0.58
2:C:10:TRP:N	2:C:50:TYR:HE1	2.00	0.58
2:C:230:PHE:O	2:C:233:VAL:HG23	2.02	0.58
1:E:328:PRO:HB3	1:E:335:TYR:CE2	2.38	0.58
1:E:583:LEU:CB	1:E:586:ILE:HB	2.33	0.58
1:B:90:LYS:CE	1:B:213:ILE:HD11	2.33	0.58
1:B:351:GLU:N	1:B:351:GLU:OE1	2.35	0.58
2:C:11:LYS:HG3	1:A:584:PRO:O	2.04	0.58
1:A:237:GLU:OE1	1:A:237:GLU:N	2.33	0.58
1:A:572:SER:OG	1:A:575:ILE:CD1	2.51	0.58
2:F:33:ARG:HH21	2:F:33:ARG:HB3	1.68	0.58
2:F:312:ALA:O	2:F:316:ILE:HG13	2.04	0.58
1:B:257:LYS:O	1:B:260:PHE:HB3	2.02	0.58
1:B:532:ILE:HG23	1:B:539:MET:HB3	1.85	0.58
2:D:24:PHE:CE2	2:D:155:TRP:CG	2.85	0.58
2:D:345:LYS:HA	2:D:348:SER:OG	2.03	0.58
1:A:170:GLU:CB	1:A:185:GLN:NE2	2.67	0.58
1:E:117:LYS:HD2	1:E:439:PHE:CE2	2.38	0.58
1:E:288:PRO:HB2	1:E:291:SER:O	2.03	0.58
1:E:290:TYR:CD1	1:E:301:ILE:CD1	2.86	0.58
1:E:365:ILE:CD1	1:E:393:LEU:HD11	2.33	0.58
1:E:373:THR:CG2	1:E:377:ILE:HD11	2.31	0.58
1:E:530:HIS:NE2	1:E:570:ILE:HG21	2.13	0.58
2:F:22:LEU:HD13	2:F:43:ALA:N	2.19	0.58
2:F:130:HIS:HB2	3:F:509:HOH:O	2.02	0.58
1:B:121:PRO:CG	1:B:124:SER:HB3	2.33	0.58
1:B:225:HIS:H	1:B:225:HIS:CD2	2.22	0.58
1:B:598:TRP:CH2	2:D:98:GLY:N	2.71	0.58
2:D:246:GLU:H	2:D:310:TRP:HH2	1.51	0.58
1:A:358:LEU:O	1:A:359:ILE:HG12	2.03	0.58
1:E:104:ILE:CG2	1:E:129:ILE:HD11	2.33	0.58
1:B:250:ILE:CG2	1:B:365:ILE:CG1	2.81	0.58
2:C:18:TYR:CE2	2:C:22:LEU:CD1	2.86	0.58
2:C:119:ILE:O	2:C:120:ASP:HB2	2.02	0.58
1:A:532:ILE:CG2	1:A:539:MET:HE3	2.34	0.58
1:E:445:PRO:HG2	1:E:448:PHE:CZ	2.38	0.58
1:B:121:PRO:HB2	1:B:182:LEU:HD21	1.86	0.58
1:B:257:LYS:O	1:B:260:PHE:CA	2.52	0.58
1:B:328:PRO:CB	1:B:335:TYR:HE2	2.11	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:572:SER:H	1:B:575:ILE:CD1	2.15	0.58
1:B:598:TRP:CH2	2:D:98:GLY:HA2	2.38	0.58
2:C:95:PHE:CE1	2:C:99:LEU:HD11	2.39	0.58
1:A:63:PHE:HB3	1:A:88:ILE:CG1	2.32	0.58
1:A:382:PRO:CD	1:A:401:LYS:HZ3	2.17	0.58
1:A:436:ILE:HG23	1:A:437:ASP:N	2.17	0.58
1:A:472:GLY:O	1:A:473:ILE:HG12	2.04	0.58
1:A:572:SER:O	1:A:575:ILE:CG1	2.52	0.58
1:E:282:ASP:OD2	1:E:360:ASN:ND2	2.36	0.58
1:B:102:ILE:O	1:B:109:TYR:N	2.33	0.58
1:B:357:LEU:O	1:B:358:LEU:HD22	2.03	0.58
1:B:585:TYR:CD1	2:D:8:THR:O	2.57	0.58
2:C:256:MET:O	2:C:260:ILE:HG12	2.03	0.58
2:D:249:ARG:O	2:D:253:GLU:CB	2.52	0.58
1:A:232:ILE:HG12	1:A:264:LEU:HA	1.84	0.58
1:E:111:SER:OG	1:E:142:ASN:ND2	2.29	0.58
1:E:364:TRP:CH2	1:E:368:TYR:HD1	2.22	0.58
1:E:586:ILE:HG12	2:F:7:LEU:HA	1.84	0.58
2:F:321:ASP:O	2:F:325:SER:OG	2.19	0.58
2:F:420:VAL:C	2:F:421:ILE:CG1	2.69	0.58
1:B:138:SER:HA	1:B:139:LEU:CB	2.33	0.58
1:B:427:LEU:HD23	1:B:427:LEU:O	2.03	0.58
1:B:510:LEU:HD23	1:B:511:LEU:N	2.19	0.58
1:B:583:LEU:HB2	1:B:586:ILE:N	2.19	0.58
2:C:22:LEU:CD2	2:C:43:ALA:HA	2.33	0.58
2:C:229:ASN:ND2	2:C:229:ASN:O	2.37	0.58
2:D:145:THR:CG2	3:D:506:HOH:O	2.34	0.58
2:D:312:ALA:O	2:D:316:ILE:HG13	2.03	0.58
1:A:269:LEU:HD23	1:A:278:ILE:CG2	2.33	0.58
1:A:492:VAL:HG13	1:A:557:ILE:HG12	1.86	0.58
1:A:594:LEU:HD12	1:A:594:LEU:C	2.24	0.58
1:E:228:TRP:CZ3	1:E:263:LEU:HD23	2.35	0.58
1:E:340:GLU:CG	1:E:379:ARG:NH1	2.45	0.58
1:E:524:PHE:CZ	1:E:546:PHE:HB2	2.30	0.58
2:D:259:PHE:CZ	2:D:268:PRO:CA	2.87	0.57
1:E:225:HIS:CD2	1:E:228:TRP:CD1	2.92	0.57
2:F:20:LYS:CB	2:F:159:TRP:CZ3	2.87	0.57
2:F:20:LYS:CB	2:F:159:TRP:CE3	2.87	0.57
2:F:53:ARG:O	2:F:54:THR:HG23	2.04	0.57
2:F:120:ASP:HB3	2:F:157:HIS:NE2	2.19	0.57
1:B:482:ILE:C	3:B:702:HOH:O	2.43	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:93:ILE:HG12	2:D:129:ARG:HA	1.85	0.57
1:A:98:GLN:O	1:A:142:ASN:CB	2.52	0.57
1:E:72:TYR:HE2	1:E:206:SER:HG	1.53	0.57
1:E:225:HIS:N	1:E:228:TRP:HB3	2.19	0.57
1:E:430:MET:HE1	1:E:568:TRP:CE3	2.24	0.57
2:F:72:MET:HA	2:F:75:SER:OG	2.04	0.57
2:C:10:TRP:HD1	2:C:13:SER:HA	1.65	0.57
1:A:298:LEU:HD23	1:A:298:LEU:O	2.05	0.57
1:E:78:ILE:CD1	1:E:161:LYS:CG	2.78	0.57
1:E:245:ILE:HG13	1:E:245:ILE:O	2.03	0.57
1:E:365:ILE:CD1	1:E:366:LYS:HB2	2.34	0.57
1:E:397:ILE:O	1:E:397:ILE:HG22	2.04	0.57
2:C:28:ARG:N	2:C:29:GLU:OE2	2.37	0.57
2:D:89:SER:O	2:D:93:ILE:HG13	2.04	0.57
1:E:338:LEU:HD23	1:E:338:LEU:C	2.24	0.57
1:E:490:PHE:CD1	1:E:521:THR:HG22	2.36	0.57
1:E:523:PHE:CD1	1:E:524:PHE:N	2.73	0.57
1:E:525:ARG:HH21	1:E:525:ARG:CG	2.16	0.57
2:C:53:ARG:HH11	2:C:53:ARG:CG	2.13	0.57
2:C:96:VAL:HA	2:C:99:LEU:HD11	1.87	0.57
2:C:186:LEU:CA	2:C:221:ILE:HG12	2.34	0.57
2:C:416:LYS:HZ3	2:C:416:LYS:HB3	1.69	0.57
2:D:127:GLU:OE1	1:A:366:LYS:O	2.22	0.57
1:A:583:LEU:CB	1:A:586:ILE:C	2.73	0.57
1:E:436:ILE:HG21	1:E:440:LYS:HB3	1.86	0.57
2:F:52:SER:OG	2:F:57:SER:OG	2.17	0.57
2:F:249:ARG:CB	2:F:307:TRP:CE2	2.87	0.57
2:C:235:ILE:HA	2:C:238:ILE:HD12	1.86	0.57
2:C:249:ARG:CA	2:C:307:TRP:CZ2	2.85	0.57
2:C:269:LEU:HD22	2:C:323:LEU:HG	1.85	0.57
2:C:305:GLN:O	2:C:308:ILE:CB	2.50	0.57
2:D:310:TRP:HD1	2:D:313:ILE:HD12	1.69	0.57
2:D:327:MET:O	2:D:330:THR:OG1	2.20	0.57
1:A:451:PRO:O	1:A:541:LEU:N	2.37	0.57
1:E:74:HIS:CD2	1:E:75:ASP:N	2.73	0.57
1:E:182:LEU:HG	1:E:419:TYR:HE1	1.70	0.57
1:E:183:PHE:CD2	1:E:183:PHE:N	2.73	0.57
2:F:328:ILE:HA	2:F:331:LEU:CD2	2.35	0.57
1:B:64:SER:N	1:B:86:ASN:O	2.37	0.57
1:B:318:THR:HG22	1:B:319:GLN:CD	2.24	0.57
1:B:468:LEU:CD1	1:B:561:GLY:N	2.46	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:419:GLY:O	2:C:420:VAL:HB	2.05	0.57
2:D:356:ILE:O	2:D:360:ILE:HG13	2.04	0.57
1:A:588:PHE:N	1:A:588:PHE:CD2	2.73	0.57
1:E:92:GLN:OE1	1:E:167:THR:CG2	2.53	0.57
2:C:53:ARG:HG2	2:C:53:ARG:NH1	2.16	0.57
2:C:141:GLU:OE1	2:C:141:GLU:HA	2.05	0.57
2:C:218:ILE:CG2	2:C:255:MET:CE	2.83	0.57
2:D:27:ASP:O	2:D:31:ILE:HD13	2.05	0.57
2:D:140:LEU:HD23	2:D:141:GLU:N	2.19	0.57
1:A:183:PHE:CD2	1:A:183:PHE:N	2.73	0.57
1:A:278:ILE:HD13	1:A:279:ASN:C	2.25	0.57
1:A:524:PHE:HD2	1:A:525:ARG:N	1.96	0.57
1:E:468:LEU:O	1:E:469:LYS:HB3	2.04	0.57
2:F:9:PRO:CG	2:F:10:TRP:CZ3	2.88	0.57
1:B:469:LYS:CG	1:B:470:GLU:H	2.16	0.57
2:C:276:LEU:HD11	2:C:331:LEU:HD23	1.86	0.57
2:C:305:GLN:C	2:C:308:ILE:H	2.08	0.57
2:D:259:PHE:CZ	2:D:268:PRO:HA	2.40	0.57
1:E:436:ILE:HG23	1:E:437:ASP:N	2.20	0.57
2:F:254:PRO:HG2	2:F:255:MET:SD	2.45	0.57
2:F:305:GLN:O	2:F:309:ARG:HG3	2.04	0.57
1:B:172:ILE:CD1	1:B:179:PHE:O	2.28	0.57
2:C:24:PHE:HE2	2:C:67:PHE:HZ	1.52	0.57
2:C:280:TYR:CD2	2:C:281:GLU:N	2.73	0.57
2:D:51:SER:HA	2:D:56:VAL:HG13	1.87	0.57
1:A:294:ASP:OD1	1:A:325:PHE:O	2.23	0.57
1:E:104:ILE:CG2	1:E:129:ILE:CD1	2.80	0.57
1:E:225:HIS:O	1:E:228:TRP:N	2.38	0.57
1:B:211:TYR:CD1	1:B:212:PRO:N	2.73	0.56
1:B:244:SER:HA	1:B:356:SER:CB	2.35	0.56
1:B:368:TYR:CB	2:C:124:LEU:CD2	2.81	0.56
1:B:502:LEU:HB2	1:B:509:PRO:CB	2.29	0.56
2:D:154:VAL:CG2	2:D:159:TRP:CD1	2.86	0.56
2:D:276:LEU:HD21	2:D:333:LYS:CB	2.31	0.56
1:E:172:ILE:HD12	1:E:182:LEU:HD12	1.87	0.56
1:E:173:GLY:HA3	1:E:180:LYS:HB2	1.86	0.56
1:E:400:PRO:O	1:E:401:LYS:CG	2.53	0.56
1:B:280:PHE:HB3	1:B:299:SER:O	2.05	0.56
1:B:432:TYR:CD2	1:B:526:LEU:HD12	2.39	0.56
2:C:9:PRO:CG	2:C:10:TRP:CE3	2.86	0.56
2:C:18:TYR:HD2	2:C:18:TYR:O	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:298:LEU:HD23	1:E:318:THR:HB	1.87	0.56
1:E:451:PRO:O	2:F:409:SER:HA	2.05	0.56
2:F:364:LEU:O	2:F:368:GLN:CB	2.52	0.56
1:B:257:LYS:C	1:B:260:PHE:H	2.08	0.56
1:B:327:SER:CB	1:B:329:LYS:HE2	2.35	0.56
1:B:368:TYR:HE1	1:B:372:LEU:CD1	2.18	0.56
2:D:21:GLY:O	2:D:24:PHE:O	2.21	0.56
1:A:63:PHE:CE2	1:A:213:ILE:O	2.59	0.56
1:A:119:ILE:HG13	1:A:309:HIS:CE1	2.40	0.56
1:A:304:VAL:HG21	1:A:306:HIS:NE2	2.21	0.56
1:A:359:ILE:HG22	1:A:360:ASN:N	2.20	0.56
1:A:466:THR:OG1	1:A:511:LEU:HD23	2.02	0.56
1:A:489:ILE:HG22	1:A:524:PHE:HB3	1.87	0.56
1:E:184:TRP:CD2	1:E:211:TYR:HB2	2.33	0.56
1:E:490:PHE:O	1:E:557:ILE:N	2.38	0.56
1:B:441:PHE:CD2	1:B:441:PHE:N	2.73	0.56
2:D:37:TYR:OH	2:D:74:GLU:HG3	2.05	0.56
2:D:235:ILE:O	2:D:238:ILE:HG22	2.06	0.56
1:A:95:LEU:CA	1:A:162:LEU:CB	2.81	0.56
1:A:224:LYS:CB	1:A:228:TRP:CE3	2.88	0.56
2:F:253:GLU:HA	2:F:256:MET:HG3	1.87	0.56
1:B:239:TYR:CD1	1:B:268:MET:HB3	2.41	0.56
1:B:384:HIS:O	1:B:385:VAL:HG23	2.06	0.56
2:C:49:MET:HE3	1:A:477:HIS:HB3	1.88	0.56
2:C:94:ARG:HG3	1:A:598:TRP:CH2	2.39	0.56
2:D:76:PHE:CD2	2:D:77:GLU:N	2.74	0.56
2:D:410:HIS:CD2	2:D:413:TRP:CD1	2.80	0.56
1:E:290:TYR:CE1	1:E:301:ILE:HD13	2.40	0.56
1:B:293:THR:HG21	1:B:425:ARG:HH11	1.71	0.56
1:B:484:ALA:HB3	1:B:585:TYR:HE2	1.67	0.56
2:C:63:THR:HG21	2:C:159:TRP:NE1	2.09	0.56
2:C:252:PHE:O	2:C:256:MET:N	2.35	0.56
1:E:567:ILE:HG22	1:E:571:ALA:HB3	1.87	0.56
1:E:587:THR:N	2:F:8:THR:HG23	2.21	0.56
1:B:331:GLN:CB	1:B:334:ARG:HB2	2.26	0.56
1:B:432:TYR:CE1	1:B:544:PRO:HG3	2.41	0.56
2:C:53:ARG:HD3	1:A:485:THR:CG2	2.35	0.56
2:D:74:GLU:OE2	2:D:144:LYS:CE	2.54	0.56
1:A:110:HIS:O	1:A:113:VAL:HG12	2.06	0.56
1:A:364:TRP:CE3	1:A:369:GLY:N	2.73	0.56
1:E:451:PRO:CD	2:F:413:TRP:CE2	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:239:VAL:O	2:F:242:LYS:CB	2.54	0.56
1:B:107:VAL:CG2	1:B:266:GLN:NE2	2.55	0.56
1:B:167:THR:CB	1:B:439:PHE:O	2.53	0.56
1:B:227:ASN:HA	1:B:230:ASP:HB3	1.88	0.56
1:B:387:TYR:HD1	1:B:388:LEU:N	2.03	0.56
2:C:299:GLN:CB	2:C:303:CYS:SG	2.94	0.56
2:D:95:PHE:CE1	2:D:99:LEU:HD11	2.41	0.56
2:D:259:PHE:HZ	2:D:268:PRO:CB	2.10	0.56
2:D:267:PHE:C	2:D:270:GLY:H	2.08	0.56
1:E:165:LEU:O	1:E:209:THR:HG21	2.06	0.56
1:E:219:THR:HG22	1:E:220:VAL:N	2.20	0.56
1:E:269:LEU:HD21	1:E:278:ILE:HG22	1.88	0.56
2:F:70:LEU:HD12	2:F:70:LEU:C	2.26	0.56
1:B:81:LEU:CD2	1:B:87:LEU:CG	2.84	0.56
1:B:121:PRO:HD3	1:B:308:ASN:CB	2.27	0.56
1:B:260:PHE:HE2	1:B:386:ILE:HG21	1.70	0.56
2:C:232:ASN:CB	2:C:278:LYS:NZ	2.69	0.56
2:C:406:SER:O	2:C:406:SER:OG	2.22	0.56
2:D:96:VAL:HG13	2:D:121:LEU:HD22	1.88	0.56
1:A:203:LEU:O	1:A:204:ALA:HB3	2.06	0.56
1:A:211:TYR:HD1	1:A:212:PRO:HD2	1.71	0.56
1:A:329:LYS:O	1:A:332:PRO:HD3	2.06	0.56
1:A:451:PRO:CB	1:A:540:ASN:HB3	2.36	0.56
1:E:437:ASP:HB3	1:E:440:LYS:HZ1	1.64	0.56
1:E:448:PHE:N	1:E:448:PHE:CD2	2.73	0.56
2:F:118:LYS:HB2	2:F:118:LYS:HZ2	1.69	0.56
2:F:188:LYS:O	2:F:191:ARG:HB3	2.06	0.56
2:F:272:ILE:CG1	2:F:315:GLN:HE22	2.18	0.56
1:B:172:ILE:HD12	1:B:179:PHE:HB3	0.72	0.56
1:B:179:PHE:CE1	1:B:427:LEU:HD12	2.41	0.56
1:B:387:TYR:CD1	1:B:388:LEU:N	2.73	0.56
2:C:24:PHE:HE2	2:C:67:PHE:CZ	2.24	0.56
2:D:44:ILE:HD13	2:D:68:SER:HB2	1.88	0.56
2:D:266:ASP:O	2:D:269:LEU:N	2.39	0.56
1:A:236:THR:HG21	1:A:267:HIS:HB3	1.88	0.56
1:E:386:ILE:HG23	1:E:406:ILE:HD11	1.87	0.56
1:E:426:LEU:HA	1:E:429:THR:OG1	2.05	0.56
1:E:454:VAL:CG2	1:E:539:MET:HG3	2.36	0.56
1:E:567:ILE:HD12	1:E:567:ILE:H	1.70	0.56
1:B:81:LEU:HD22	1:B:87:LEU:CD1	2.31	0.55
1:B:111:SER:HB2	1:B:142:ASN:CB	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:388:LEU:HD22	1:B:406:ILE:HD11	1.88	0.55
1:B:492:VAL:HG12	1:B:557:ILE:HD11	1.89	0.55
2:C:25:PRO:HG3	2:C:36:LEU:HD12	1.88	0.55
2:C:76:PHE:CE2	2:C:84:VAL:CG2	2.88	0.55
1:E:74:HIS:HD2	1:E:75:ASP:N	2.03	0.55
1:E:265:VAL:HG22	1:E:278:ILE:CD1	2.36	0.55
1:E:530:HIS:CE1	1:E:569:GLU:HB3	2.41	0.55
2:F:112:LEU:O	2:F:116:ALA:CB	2.50	0.55
2:F:194:ARG:CB	2:F:251:LEU:HD21	2.36	0.55
1:B:79:PHE:N	1:B:79:PHE:CD1	2.73	0.55
1:B:530:HIS:CE1	1:B:531:SER:HG	2.14	0.55
2:C:22:LEU:HD23	2:C:43:ALA:HB2	1.87	0.55
2:C:40:TYR:HE2	2:C:67:PHE:HE1	1.50	0.55
2:D:22:LEU:HD23	2:D:22:LEU:H	1.71	0.55
1:A:63:PHE:CZ	1:A:214:THR:HG22	2.41	0.55
1:A:446:LEU:O	1:A:542:TYR:CZ	2.59	0.55
1:A:465:LEU:HD11	1:A:482:ILE:CG2	2.31	0.55
1:E:465:LEU:CD2	1:E:467:HIS:CD2	2.89	0.55
2:F:110:ILE:HD11	2:F:115:LEU:HD11	0.58	0.55
2:F:331:LEU:HG	2:F:343:LEU:HG	1.87	0.55
1:B:279:ASN:CB	1:B:300:LYS:CE	2.84	0.55
2:C:276:LEU:HD11	2:C:331:LEU:HG	1.88	0.55
1:A:167:THR:HA	1:A:439:PHE:O	2.06	0.55
1:A:328:PRO:HB3	1:A:335:TYR:CD2	2.41	0.55
1:A:483:GLU:OE1	1:A:531:SER:C	2.45	0.55
1:A:487:VAL:CG2	1:A:558:MET:SD	2.94	0.55
2:F:121:LEU:CD1	2:F:122:PRO:HD3	2.30	0.55
2:F:238:ILE:CG2	2:F:307:TRP:HZ3	1.89	0.55
2:F:324:VAL:HG12	2:F:328:ILE:HD11	1.89	0.55
2:C:232:ASN:CB	2:C:278:LYS:HZ1	2.19	0.55
2:C:417:PRO:C	2:C:419:GLY:N	2.56	0.55
2:F:20:LYS:CG	2:F:159:TRP:HE3	2.19	0.55
2:F:111:PRO:O	2:F:115:LEU:HD13	2.06	0.55
1:B:170:GLU:HB2	1:B:183:PHE:HB2	1.88	0.55
1:B:279:ASN:O	1:B:358:LEU:HB2	2.06	0.55
1:A:71:ILE:HD13	1:A:71:ILE:N	2.09	0.55
1:A:382:PRO:CG	1:A:401:LYS:NZ	2.69	0.55
1:A:452:ILE:O	1:A:454:VAL:HG13	2.06	0.55
1:A:466:THR:CG2	1:A:511:LEU:CD2	2.83	0.55
1:E:92:GLN:NE2	1:E:92:GLN:H	2.05	0.55
1:E:334:ARG:O	1:E:338:LEU:CB	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:389:ASN:ND2	1:E:408:LEU:CB	2.70	0.55
2:F:9:PRO:CG	2:F:10:TRP:CE3	2.85	0.55
1:B:118:PHE:CE1	1:B:306:HIS:HB2	2.23	0.55
1:B:368:TYR:CD1	1:B:372:LEU:HG	2.39	0.55
1:B:486:ILE:CD1	1:B:564:ASP:C	2.65	0.55
2:C:24:PHE:CD2	2:C:24:PHE:N	2.73	0.55
2:C:82:ASP:O	2:C:86:LEU:HD12	2.06	0.55
1:E:349:ASP:CA	1:E:351:GLU:OE1	2.55	0.55
2:F:358:ASP:OD1	2:F:358:ASP:N	2.34	0.55
1:B:183:PHE:CD2	1:B:183:PHE:N	2.73	0.55
2:C:305:GLN:O	2:C:308:ILE:CA	2.54	0.55
2:D:7:LEU:HD12	2:D:7:LEU:C	2.27	0.55
2:D:119:ILE:O	2:D:120:ASP:HB3	2.06	0.55
2:D:149:ARG:HG2	3:D:506:HOH:O	1.94	0.55
1:A:308:ASN:O	1:A:310:LEU:HD22	2.07	0.55
1:A:312:LEU:CD1	1:A:441:PHE:HE1	2.13	0.55
1:A:340:GLU:O	1:A:343:VAL:HB	2.06	0.55
1:A:542:TYR:O	1:A:543:ILE:HG22	2.06	0.55
1:E:224:LYS:HG2	1:E:263:LEU:CD2	2.37	0.55
1:B:445:PRO:HD2	3:B:714:HOH:O	2.07	0.55
2:D:142:MET:O	2:D:145:THR:HB	2.07	0.55
2:D:352:ALA:C	2:D:353:ASP:OD2	2.45	0.55
1:A:160:ILE:HD12	1:A:160:ILE:O	2.06	0.55
1:A:230:ASP:HA	1:A:233:LYS:HB3	1.89	0.55
1:A:288:PRO:CB	1:A:291:SER:HB2	2.33	0.55
1:A:382:PRO:HB3	1:A:385:VAL:HG22	1.88	0.55
1:A:447:LEU:O	1:A:542:TYR:OH	2.24	0.55
1:E:276:LEU:HD13	1:E:354:HIS:CA	2.36	0.55
1:E:570:ILE:CA	1:E:575:ILE:HD12	2.36	0.55
2:F:247:HIS:O	2:F:250:ALA:CB	2.55	0.55
2:F:280:TYR:N	2:F:338:LEU:HD22	2.22	0.55
1:A:63:PHE:CE2	1:A:213:ILE:C	2.79	0.55
1:A:170:GLU:HB2	1:A:185:GLN:OE1	2.07	0.55
1:E:225:HIS:HB2	1:E:228:TRP:N	2.22	0.55
1:E:325:PHE:CD1	1:E:325:PHE:N	2.73	0.55
2:F:246:GLU:O	2:F:246:GLU:HG3	2.07	0.55
2:F:318:ARG:O	2:F:320:ASP:CB	2.54	0.55
1:B:426:LEU:HD13	1:B:566:PRO:HA	1.87	0.55
2:C:22:LEU:HD21	2:C:42:GLU:HB3	1.89	0.55
2:D:25:PRO:O	2:D:26:ALA:HB3	2.06	0.55
2:D:54:THR:CG2	2:D:55:ARG:N	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:ILE:HD12	1:A:108:ILE:N	2.21	0.55
1:A:490:PHE:CZ	1:A:523:PHE:CE1	2.95	0.55
1:E:182:LEU:CB	1:E:183:PHE:CE2	2.85	0.55
1:E:253:LYS:O	1:E:254:ASN:HB3	2.06	0.55
1:E:451:PRO:CD	2:F:413:TRP:CE3	2.90	0.55
2:F:331:LEU:HD23	2:F:343:LEU:HD22	1.88	0.55
1:B:155:GLY:CA	3:B:708:HOH:O	2.55	0.54
1:B:180:LYS:HE2	1:B:181:ASN:CA	2.37	0.54
1:B:182:LEU:CD1	1:B:183:PHE:CE2	2.71	0.54
2:C:11:LYS:HD2	1:A:585:TYR:CE2	2.42	0.54
2:C:181:LYS:O	2:C:185:ASP:HB2	2.07	0.54
1:A:300:LYS:O	1:A:316:ASP:O	2.24	0.54
1:A:454:VAL:CG2	1:A:541:LEU:HD11	2.37	0.54
1:B:77:VAL:HG12	1:B:79:PHE:CE2	2.38	0.54
1:B:299:SER:HA	1:B:317:SER:HB3	1.89	0.54
1:B:522:GLU:OE2	1:B:522:GLU:HA	2.06	0.54
2:C:10:TRP:CD2	2:C:16:VAL:HG23	2.42	0.54
2:D:190:TYR:HE2	2:D:218:ILE:HG23	1.56	0.54
2:D:344:GLU:O	2:D:348:SER:N	2.36	0.54
1:A:420:SER:HB3	1:A:423:GLN:CB	2.37	0.54
1:E:364:TRP:HZ3	1:E:368:TYR:HD1	1.54	0.54
1:B:107:VAL:CG2	1:B:109:TYR:CE2	2.90	0.54
1:B:491:LYS:HB2	1:B:522:GLU:O	2.07	0.54
2:C:230:PHE:C	2:C:233:VAL:HG23	2.28	0.54
2:D:56:VAL:CG2	2:D:61:GLN:HB2	2.37	0.54
1:A:95:LEU:CG	1:A:116:MET:CE	2.85	0.54
1:A:210:PHE:CD1	1:A:210:PHE:N	2.74	0.54
1:A:359:ILE:HG22	1:A:360:ASN:O	2.07	0.54
1:E:134:VAL:O	1:E:134:VAL:HG12	2.08	0.54
1:E:310:LEU:HB3	1:E:428:LYS:HG2	1.89	0.54
1:E:567:ILE:H	1:E:567:ILE:CD1	2.20	0.54
1:E:570:ILE:H	1:E:570:ILE:CD1	2.12	0.54
2:F:121:LEU:CD1	2:F:122:PRO:CD	2.86	0.54
2:F:197:ASN:C	2:F:198:ILE:HD12	2.27	0.54
2:F:237:ARG:HA	2:F:237:ARG:NE	2.17	0.54
1:B:453:GLN:HB3	1:B:538:ILE:CG2	2.36	0.54
2:C:73:LEU:HD23	2:C:84:VAL:HG12	1.89	0.54
2:C:160:ASP:OD2	2:C:161:GLY:N	2.40	0.54
2:C:214:TYR:CA	2:C:217:CYS:SG	2.93	0.54
2:C:224:HIS:O	2:C:227:MET:SD	2.65	0.54
1:A:119:ILE:CG1	1:A:309:HIS:ND1	2.70	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:232:ILE:HG13	1:A:264:LEU:CD2	2.21	0.54
1:E:340:GLU:CD	1:E:379:ARG:HH11	2.10	0.54
1:E:344:ARG:HH21	1:E:379:ARG:HH12	1.54	0.54
2:F:10:TRP:HE3	2:F:50:TYR:HD2	1.55	0.54
1:B:583:LEU:O	1:B:583:LEU:HD22	2.07	0.54
2:C:418:PHE:N	2:C:418:PHE:CD2	2.73	0.54
2:D:95:PHE:CZ	2:D:99:LEU:HD11	2.42	0.54
1:A:78:ILE:CA	1:A:161:LYS:HB3	2.27	0.54
1:A:116:MET:HG3	1:A:118:PHE:CE2	2.43	0.54
1:A:516:PHE:CE2	1:A:521:THR:HG21	2.42	0.54
1:E:85:GLN:O	1:E:130:GLN:HA	2.05	0.54
1:E:128:LEU:C	1:E:129:ILE:HD12	2.27	0.54
2:F:325:SER:C	2:F:328:ILE:HD13	2.28	0.54
2:C:10:TRP:CE2	2:C:16:VAL:HG21	2.42	0.54
2:C:90:MET:HB2	2:D:90:MET:HB2	1.89	0.54
2:D:93:ILE:CD1	2:D:132:ALA:HB3	2.29	0.54
1:A:162:LEU:HD22	1:A:210:PHE:CE2	2.42	0.54
1:E:365:ILE:HD12	1:E:393:LEU:HD13	1.88	0.54
1:E:426:LEU:O	1:E:430:MET:N	2.30	0.54
1:E:466:THR:OG1	1:E:511:LEU:O	2.21	0.54
2:F:234:MET:O	2:F:238:ILE:HD12	2.08	0.54
2:F:360:ILE:HD12	2:F:360:ILE:H	1.72	0.54
1:A:62:ASN:CB	1:A:216:PRO:HG3	2.38	0.54
1:A:246:LYS:CB	1:A:383:THR:CB	2.74	0.54
1:A:434:HIS:CD2	1:A:446:LEU:HD11	2.42	0.54
1:E:471:THR:O	1:E:471:THR:HG22	2.07	0.54
2:F:10:TRP:N	2:F:50:TYR:CD2	2.76	0.54
2:C:299:GLN:O	2:C:303:CYS:SG	2.66	0.54
2:D:267:PHE:HA	2:D:270:GLY:HA3	1.89	0.54
1:E:232:ILE:CG1	1:E:264:LEU:CA	2.77	0.54
1:E:524:PHE:O	1:E:525:ARG:HG3	2.08	0.54
2:F:316:ILE:CD1	2:F:346:LEU:CD2	2.80	0.54
1:B:217:ASP:CB	3:B:725:HOH:O	2.56	0.54
1:E:436:ILE:CG2	1:E:440:LYS:CB	2.86	0.54
1:E:468:LEU:CD2	1:E:469:LYS:H	2.21	0.54
2:F:89:SER:OG	2:F:137:LEU:HD11	2.08	0.54
2:F:234:MET:HG3	2:F:235:ILE:N	2.23	0.54
2:F:312:ALA:CB	2:F:342:LEU:HD21	2.24	0.54
1:B:368:TYR:CE1	1:B:372:LEU:CD1	2.91	0.54
2:D:232:ASN:OD1	2:D:271:LEU:HA	2.08	0.54
1:A:213:ILE:CD1	1:A:219:THR:CG2	2.82	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:463:SER:O	1:A:509:PRO:HG3	1.96	0.54
1:E:289:GLU:C	1:E:290:TYR:HD2	2.12	0.54
1:E:466:THR:HG21	1:E:516:PHE:HB2	1.90	0.54
1:E:530:HIS:HE1	1:E:569:GLU:HB3	1.73	0.54
1:B:175:VAL:CG2	1:B:176:CYS:N	2.72	0.53
2:C:73:LEU:HD21	3:C:502:HOH:O	2.08	0.53
2:D:89:SER:HA	2:D:128:PHE:CE1	2.43	0.53
1:A:385:VAL:O	1:A:404:ASN:CG	2.46	0.53
1:A:434:HIS:NE2	1:A:446:LEU:HD12	2.22	0.53
1:E:108:ILE:HG23	1:E:133:GLN:CB	2.38	0.53
1:B:182:LEU:O	1:B:182:LEU:HD23	2.08	0.53
1:B:261:LEU:HD12	1:B:360:ASN:ND2	2.23	0.53
2:C:310:TRP:CZ3	2:C:314:GLU:OE1	2.61	0.53
2:D:155:TRP:O	2:D:160:ASP:HB2	2.08	0.53
1:A:87:LEU:CD2	1:A:212:PRO:HB3	2.35	0.53
1:A:95:LEU:CD2	1:A:116:MET:CE	2.86	0.53
1:A:565:LEU:CD2	1:A:570:ILE:CG1	2.86	0.53
2:F:262:LEU:HD13	2:F:263:LYS:CG	2.23	0.53
1:B:127:PRO:HA	1:B:222:VAL:HG21	1.90	0.53
1:B:327:SER:CB	1:B:329:LYS:CE	2.86	0.53
1:B:492:VAL:CG1	1:B:557:ILE:HD11	2.38	0.53
1:B:596:LYS:HD2	1:B:596:LYS:N	2.24	0.53
2:C:15:GLU:O	2:C:16:VAL:C	2.46	0.53
1:A:246:LYS:HB2	1:A:383:THR:CB	2.38	0.53
1:A:329:LYS:HD2	1:A:364:TRP:CZ2	2.42	0.53
1:A:466:THR:HB	1:A:511:LEU:O	2.08	0.53
1:E:231:VAL:O	1:E:235:LEU:HG	2.09	0.53
1:E:499:GLU:O	1:E:500:CYS:HB2	2.08	0.53
2:F:251:LEU:O	2:F:254:PRO:CD	2.55	0.53
1:B:177:PRO:O	1:B:180:LYS:HD2	2.08	0.53
2:D:99:LEU:N	2:D:99:LEU:HD23	2.23	0.53
2:F:238:ILE:HG22	2:F:307:TRP:CZ3	2.31	0.53
2:C:420:VAL:O	2:C:420:VAL:HG12	2.08	0.53
2:D:9:PRO:HD2	2:D:10:TRP:CE3	2.42	0.53
2:D:183:LEU:HD22	2:D:224:HIS:HB2	1.87	0.53
1:A:436:ILE:HG22	1:A:440:LYS:HB3	1.85	0.53
1:A:475:MET:O	1:A:478:LEU:HD22	2.08	0.53
1:E:293:THR:HG21	1:E:425:ARG:HD2	1.90	0.53
2:C:137:LEU:CB	2:D:94:ARG:NH2	2.68	0.53
2:C:182:GLU:O	2:C:186:LEU:CA	2.56	0.53
1:A:456:TYR:H	1:A:537:LYS:CB	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:455:SER:HB2	1:E:459:SER:OG	2.08	0.53
1:E:468:LEU:HD23	1:E:513:TYR:CE1	2.44	0.53
1:E:492:VAL:HG11	1:E:496:HIS:CB	2.38	0.53
1:B:61:SER:O	1:B:216:PRO:HA	2.08	0.53
1:B:118:PHE:CD1	1:B:306:HIS:C	2.82	0.53
1:B:456:TYR:HH	1:B:537:LYS:HA	1.72	0.53
1:E:103:ASP:CG	1:E:132:THR:HG1	2.12	0.53
1:B:325:PHE:CD1	1:B:330:ASP:CB	2.91	0.53
1:A:63:PHE:CE2	1:A:214:THR:CB	2.83	0.53
1:A:420:SER:C	1:A:423:GLN:H	2.12	0.53
1:A:503:PHE:N	1:A:509:PRO:O	2.41	0.53
1:A:524:PHE:CD2	1:A:525:ARG:N	2.73	0.53
1:B:180:LYS:HD3	1:B:181:ASN:N	2.23	0.53
1:B:380:VAL:CG1	1:B:382:PRO:HB3	2.39	0.53
1:B:395:VAL:HA	1:B:398:ASP:HB2	1.91	0.53
1:B:598:TRP:CZ2	2:C:134:HIS:O	2.62	0.53
2:C:48:GLU:OE2	2:D:80:LEU:HD22	2.09	0.53
2:C:153:TRP:NE1	2:C:157:HIS:CD2	2.76	0.53
1:A:532:ILE:CD1	1:A:532:ILE:H	2.22	0.53
1:E:169:LEU:O	1:E:172:ILE:HG23	2.08	0.53
2:F:76:PHE:HE2	2:F:80:LEU:O	1.92	0.53
1:B:180:LYS:HD3	1:B:180:LYS:N	2.23	0.53
1:B:490:PHE:C	1:B:557:ILE:HD12	2.28	0.53
2:D:266:ASP:C	2:D:268:PRO:CD	2.78	0.53
1:A:368:TYR:O	1:A:372:LEU:N	2.32	0.53
1:E:172:ILE:HG13	1:E:179:PHE:HB3	1.91	0.53
1:E:467:HIS:O	1:E:513:TYR:HB2	2.08	0.53
2:F:7:LEU:H	2:F:7:LEU:CD2	2.22	0.53
1:B:368:TYR:HD2	2:C:124:LEU:CD2	2.19	0.52
1:B:490:PHE:CG	1:B:557:ILE:CG2	2.83	0.52
2:C:88:ALA:O	2:C:91:THR:OG1	2.27	0.52
2:D:58:HIS:CE1	2:D:98:GLY:C	2.82	0.52
1:A:532:ILE:HD13	1:A:532:ILE:H	1.73	0.52
1:E:104:ILE:HG23	1:E:129:ILE:CG1	2.39	0.52
1:E:164:ASN:CA	1:E:210:PHE:HE1	2.22	0.52
2:F:22:LEU:HD11	2:F:39:GLN:HA	1.90	0.52
2:C:418:PHE:N	2:C:418:PHE:HD2	2.06	0.52
2:D:230:PHE:HA	2:D:233:VAL:HG23	1.91	0.52
2:D:251:LEU:O	2:D:254:PRO:HD2	2.09	0.52
1:E:432:TYR:CE1	1:E:544:PRO:HG3	2.44	0.52
1:E:585:TYR:HE2	2:F:11:LYS:HG2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:20:LYS:CE	2:F:159:TRP:O	2.58	0.52
1:B:92:GLN:NE2	1:B:183:PHE:HB3	2.24	0.52
1:B:368:TYR:CB	2:C:124:LEU:HD22	2.33	0.52
2:C:97:ASN:O	2:C:101:ASP:HB2	2.10	0.52
2:D:186:LEU:HB3	2:D:221:ILE:CG1	2.40	0.52
1:A:164:ASN:CB	1:A:209:THR:CG2	2.87	0.52
1:E:225:HIS:O	1:E:228:TRP:CA	2.56	0.52
1:E:420:SER:O	1:E:423:GLN:N	2.42	0.52
1:E:475:MET:O	1:E:478:LEU:CD2	2.57	0.52
2:F:123:SER:O	2:F:126:VAL:HB	2.10	0.52
1:B:248:ILE:CD1	1:B:359:ILE:HD13	2.38	0.52
1:B:547:ARG:C	1:B:548:THR:HG1	2.04	0.52
2:C:258:HIS:O	2:C:261:HIS:HB3	2.09	0.52
1:A:247:VAL:HG12	1:A:248:ILE:O	2.09	0.52
1:E:341:GLN:O	1:E:344:ARG:HG2	2.08	0.52
2:F:40:TYR:CG	2:F:67:PHE:CD2	2.96	0.52
2:F:328:ILE:O	2:F:331:LEU:HD22	2.10	0.52
1:B:310:LEU:N	1:B:310:LEU:CD2	2.73	0.52
1:B:463:SER:O	1:B:509:PRO:HG3	2.09	0.52
1:B:583:LEU:HB2	1:B:586:ILE:H	1.72	0.52
2:C:245:TRP:NE1	2:C:247:HIS:CB	2.73	0.52
1:A:66:ASP:CB	1:A:68:ASP:CB	2.87	0.52
1:E:370:LEU:CD1	1:E:397:ILE:HG12	2.36	0.52
2:F:269:LEU:HD11	2:F:326:LYS:CB	2.40	0.52
2:F:280:TYR:N	2:F:338:LEU:HD21	2.23	0.52
1:B:418:ARG:N	1:B:419:TYR:CA	2.72	0.52
2:C:15:GLU:O	2:C:18:TYR:CA	2.57	0.52
2:C:21:GLY:O	2:C:24:PHE:O	2.26	0.52
2:C:271:LEU:CG	2:C:275:MET:HE3	2.40	0.52
2:D:79:GLY:C	1:A:472:GLY:HA3	2.30	0.52
2:D:182:GLU:O	2:D:186:LEU:HG	2.10	0.52
2:D:267:PHE:O	2:D:270:GLY:N	2.43	0.52
1:E:229:MET:O	1:E:232:ILE:CG2	2.56	0.52
1:E:445:PRO:HG2	1:E:448:PHE:CE1	2.45	0.52
1:E:468:LEU:CD2	1:E:469:LYS:N	2.73	0.52
1:E:567:ILE:N	1:E:567:ILE:CD1	2.73	0.52
1:E:570:ILE:N	1:E:570:ILE:CD1	2.73	0.52
2:F:245:TRP:CB	2:F:247:HIS:NE2	2.73	0.52
1:B:225:HIS:CB	1:B:227:ASN:ND2	2.73	0.52
1:B:235:LEU:N	1:B:235:LEU:CD2	2.73	0.52
1:B:260:PHE:CE2	1:B:386:ILE:HG21	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:528:LEU:CD2	1:B:569:GLU:OE2	2.58	0.52
2:C:10:TRP:N	2:C:50:TYR:CE1	2.76	0.52
2:D:96:VAL:O	2:D:100:LEU:CD1	2.57	0.52
2:D:345:LYS:CA	2:D:348:SER:OG	2.57	0.52
2:D:354:PRO:N	2:D:357:LYS:CB	2.73	0.52
1:A:276:LEU:HB3	1:A:354:HIS:O	2.10	0.52
1:A:322:TYR:CD1	1:A:523:PHE:CZ	2.98	0.52
1:A:464:ALA:CA	1:A:509:PRO:CG	2.88	0.52
1:E:79:PHE:HE1	1:E:162:LEU:HG	1.75	0.52
1:E:89:VAL:HG11	1:E:93:PHE:CD1	2.45	0.52
1:B:490:PHE:O	1:B:557:ILE:HB	2.09	0.52
2:C:153:TRP:CZ2	2:C:157:HIS:ND1	2.77	0.52
2:D:89:SER:OG	2:D:128:PHE:HE1	1.93	0.52
1:A:108:ILE:N	1:A:108:ILE:CD1	2.73	0.52
1:A:373:THR:O	1:A:377:ILE:N	2.38	0.52
1:A:444:GLN:NE2	1:A:445:PRO:O	2.42	0.52
1:A:532:ILE:CD1	1:A:532:ILE:N	2.73	0.52
1:E:78:ILE:HG21	1:E:98:GLN:NE2	2.24	0.52
1:E:529:VAL:HG13	1:E:532:ILE:CD1	2.20	0.52
2:F:194:ARG:CB	2:F:251:LEU:HD22	2.40	0.52
1:B:63:PHE:N	1:B:88:ILE:HD13	2.18	0.52
1:B:164:ASN:CG	1:B:208:TYR:HB3	2.25	0.52
1:B:455:SER:HB3	2:D:405:LYS:N	2.24	0.52
2:F:33:ARG:HH21	2:F:33:ARG:HB2	1.73	0.52
2:F:251:LEU:C	2:F:254:PRO:HD2	2.30	0.52
1:B:102:ILE:C	1:B:108:ILE:HG23	2.30	0.52
1:B:112:GLY:HA3	1:B:140:LEU:HA	1.92	0.52
1:B:164:ASN:ND2	1:B:208:TYR:CG	2.77	0.52
1:B:169:LEU:O	1:B:170:GLU:CB	2.58	0.52
1:B:322:TYR:CE2	1:B:324:GLY:HA2	2.45	0.52
2:C:232:ASN:CA	2:C:278:LYS:NZ	2.72	0.52
2:D:145:THR:O	2:D:149:ARG:HB2	2.09	0.52
1:A:167:THR:HG23	1:A:168:HIS:N	2.25	0.52
1:A:570:ILE:HG22	3:A:734:HOH:O	1.97	0.52
2:F:198:ILE:N	2:F:198:ILE:CD1	2.73	0.52
1:B:328:PRO:HB3	1:B:335:TYR:HD2	1.69	0.51
2:C:46:LEU:O	2:C:50:TYR:HD2	1.93	0.51
2:C:324:VAL:O	2:C:328:ILE:HG12	2.10	0.51
2:D:149:ARG:NH1	2:D:149:ARG:CB	2.73	0.51
1:A:239:TYR:CE1	1:A:276:LEU:HD12	2.44	0.51
1:A:576:VAL:HG23	1:A:577:LYS:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:129:ILE:CD1	1:E:129:ILE:N	2.73	0.51
2:F:82:ASP:O	2:F:86:LEU:CD1	2.58	0.51
1:B:93:PHE:HD2	1:B:162:LEU:CD2	2.20	0.51
1:B:119:ILE:N	1:B:307:GLY:HA3	2.16	0.51
1:B:509:PRO:HG2	1:B:509:PRO:O	2.10	0.51
2:C:140:LEU:HD12	2:C:140:LEU:C	2.28	0.51
2:D:24:PHE:HD2	2:D:155:TRP:HE1	1.58	0.51
2:D:272:ILE:O	2:D:275:MET:N	2.43	0.51
1:A:546:PHE:N	1:A:546:PHE:HD1	2.09	0.51
1:A:584:PRO:O	1:A:585:TYR:CD2	2.63	0.51
1:E:265:VAL:HG13	1:E:278:ILE:CD1	2.40	0.51
2:F:118:LYS:NZ	2:F:118:LYS:CB	2.73	0.51
1:B:180:LYS:CD	1:B:181:ASN:N	2.73	0.51
1:B:327:SER:CB	1:B:329:LYS:NZ	2.73	0.51
1:B:446:LEU:HD13	1:B:528:LEU:HD21	1.92	0.51
1:B:528:LEU:HD22	1:B:569:GLU:OE2	2.09	0.51
1:B:529:VAL:CG2	1:B:532:ILE:CD1	2.86	0.51
1:B:598:TRP:CE3	2:D:58:HIS:ND1	2.78	0.51
2:C:9:PRO:O	2:C:53:ARG:NH1	2.42	0.51
2:C:254:PRO:HA	2:C:257:ASN:HD21	1.75	0.51
1:A:248:ILE:O	1:A:249:VAL:CG2	2.58	0.51
1:A:389:ASN:OD1	1:A:408:LEU:HB3	2.11	0.51
1:E:138:SER:CB	1:E:140:LEU:N	2.73	0.51
2:F:338:LEU:CD1	2:F:339:ASN:ND2	2.73	0.51
1:B:104:ILE:HG23	1:B:129:ILE:CA	2.18	0.51
1:B:248:ILE:HD13	1:B:359:ILE:HB	1.92	0.51
2:C:49:MET:HG3	2:C:50:TYR:N	2.25	0.51
2:D:259:PHE:HE1	2:D:268:PRO:CD	2.22	0.51
2:D:267:PHE:N	2:D:268:PRO:CD	2.74	0.51
1:A:66:ASP:CB	1:A:68:ASP:N	2.73	0.51
1:A:420:SER:CB	1:A:423:GLN:CB	2.82	0.51
1:A:565:LEU:CG	1:A:570:ILE:HD11	2.40	0.51
1:E:99:ARG:CA	1:E:142:ASN:CB	2.78	0.51
1:E:121:PRO:HG2	1:E:123:SER:HB3	1.92	0.51
1:E:283:LEU:CD1	1:E:339:VAL:HG13	2.40	0.51
1:E:321:HIS:CE1	1:E:522:GLU:CD	2.76	0.51
1:E:334:ARG:O	1:E:338:LEU:N	2.38	0.51
2:F:40:TYR:CD2	2:F:67:PHE:CD2	2.98	0.51
1:B:93:PHE:CE2	1:B:162:LEU:HD21	2.46	0.51
1:B:132:THR:C	1:B:134:VAL:HG22	2.31	0.51
1:B:332:PRO:HD2	2:C:141:GLU:CB	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:583:LEU:N	1:B:583:LEU:CD1	2.73	0.51
2:D:149:ARG:CG	2:D:149:ARG:NH1	2.73	0.51
1:A:181:ASN:ND2	1:A:187:ASP:O	2.44	0.51
2:F:316:ILE:CG1	2:F:346:LEU:CD2	2.88	0.51
2:C:10:TRP:CE2	2:C:16:VAL:CG2	2.93	0.51
2:C:10:TRP:NE1	2:C:13:SER:HA	2.25	0.51
2:C:65:HIS:ND1	2:C:94:ARG:NE	2.59	0.51
2:C:83:THR:HA	2:C:86:LEU:HD12	1.92	0.51
2:D:85:ARG:CB	2:D:137:LEU:HD13	2.39	0.51
1:A:310:LEU:N	1:A:310:LEU:CD2	2.73	0.51
1:E:351:GLU:CD	1:E:352:LEU:H	2.11	0.51
1:B:210:PHE:CD1	1:B:210:PHE:N	2.78	0.51
2:C:420:VAL:C	1:A:531:SER:HB2	2.31	0.51
1:A:282:ASP:HA	1:A:360:ASN:HB3	1.92	0.51
1:A:310:LEU:HD12	1:A:428:LYS:HE2	1.93	0.51
1:A:399:ILE:O	1:A:401:LYS:C	2.48	0.51
1:A:541:LEU:HD23	1:A:541:LEU:N	2.26	0.51
1:E:265:VAL:HG13	1:E:278:ILE:HD13	1.92	0.51
2:F:66:LEU:O	2:F:69:ALA:N	2.44	0.51
2:F:316:ILE:HG12	2:F:346:LEU:CD2	2.41	0.51
2:C:259:PHE:HB3	2:C:267:PHE:CD2	2.46	0.51
1:A:170:GLU:CG	1:A:185:GLN:CD	2.76	0.51
1:A:323:VAL:HG23	1:A:324:GLY:N	2.26	0.51
1:A:489:ILE:HG22	1:A:524:PHE:CB	2.40	0.51
1:E:466:THR:CB	1:E:511:LEU:HD23	2.40	0.51
1:B:211:TYR:CD1	1:B:212:PRO:CD	2.85	0.51
1:B:368:TYR:CD2	2:C:124:LEU:CD2	2.94	0.51
2:C:33:ARG:NH2	2:C:33:ARG:HG2	2.26	0.51
2:C:305:GLN:C	2:C:308:ILE:HB	2.29	0.51
1:A:483:GLU:CB	1:A:532:ILE:CD1	2.64	0.51
1:A:483:GLU:OE2	1:A:532:ILE:CD1	2.59	0.51
1:E:305:GLN:HG3	1:E:309:HIS:CG	2.46	0.51
1:E:416:GLY:HA2	3:E:723:HOH:O	2.02	0.51
1:E:558:MET:HG2	1:E:559:VAL:H	1.76	0.51
2:F:330:THR:CG2	3:F:502:HOH:O	2.11	0.51
1:B:257:LYS:O	1:B:261:LEU:N	2.43	0.51
1:B:276:LEU:N	1:B:276:LEU:CD2	2.73	0.51
2:C:59:ILE:O	2:C:63:THR:OG1	2.24	0.51
2:D:60:LEU:CD2	2:D:159:TRP:CZ2	2.92	0.51
2:D:230:PHE:CB	2:D:233:VAL:CG2	2.89	0.51
2:D:343:LEU:O	2:D:346:LEU:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:168:HIS:O	1:E:441:PHE:HB2	2.11	0.51
1:E:454:VAL:HG21	1:E:539:MET:HG3	1.92	0.51
1:B:103:ASP:CA	1:B:108:ILE:HG12	2.30	0.50
1:B:183:PHE:HD2	1:B:183:PHE:N	2.08	0.50
1:B:437:ASP:HB3	1:B:440:LYS:NZ	2.26	0.50
1:B:478:LEU:CD2	1:B:479:GLU:HG2	2.41	0.50
2:C:49:MET:HE1	1:A:477:HIS:O	2.11	0.50
2:C:186:LEU:HD13	2:C:221:ILE:HA	1.93	0.50
2:C:209:PRO:N	2:C:212:LYS:CB	2.73	0.50
2:D:122:PRO:CG	2:D:125:PHE:CD1	2.94	0.50
2:D:331:LEU:CD1	2:D:360:ILE:CG2	2.88	0.50
1:A:368:TYR:O	1:A:371:GLU:N	2.44	0.50
1:A:436:ILE:CG2	1:A:437:ASP:N	2.74	0.50
1:A:505:LYS:N	1:A:506:GLY:HA3	2.26	0.50
1:A:570:ILE:HG21	3:A:734:HOH:O	1.96	0.50
1:A:596:LYS:NZ	1:A:596:LYS:CA	2.73	0.50
1:E:99:ARG:CA	1:E:142:ASN:HB3	2.41	0.50
1:E:267:HIS:HA	1:E:270:SER:OG	2.11	0.50
1:E:545:GLN:O	1:E:546:PHE:HB3	2.11	0.50
1:B:279:ASN:HA	1:B:300:LYS:CE	2.41	0.50
1:B:461:GLY:O	1:B:556:ILE:CB	2.58	0.50
2:C:15:GLU:O	2:C:19:LEU:N	2.43	0.50
2:D:149:ARG:CB	2:D:149:ARG:CZ	2.89	0.50
1:A:169:LEU:CD2	1:A:441:PHE:CG	2.80	0.50
1:A:224:LYS:HG2	1:A:228:TRP:HE3	1.46	0.50
1:A:364:TRP:HZ3	1:A:368:TYR:HB3	1.70	0.50
1:E:88:ILE:CG2	1:E:128:LEU:HD23	2.40	0.50
1:E:232:ILE:HG12	1:E:264:LEU:CA	2.41	0.50
1:E:301:ILE:CG1	1:E:315:THR:HG21	2.39	0.50
2:F:23:PHE:C	2:F:24:PHE:HD2	2.14	0.50
1:B:223:ILE:O	1:B:224:LYS:HD2	2.11	0.50
2:C:125:PHE:CE1	2:C:150:ALA:HB2	2.35	0.50
2:C:177:GLU:O	2:C:180:ILE:HG12	2.11	0.50
2:D:247:HIS:O	2:D:251:LEU:HG	2.11	0.50
1:A:175:VAL:HG23	1:A:176:CYS:N	2.26	0.50
1:A:294:ASP:C	1:A:323:VAL:CG2	2.79	0.50
1:A:466:THR:O	1:A:466:THR:HG23	2.11	0.50
1:E:128:LEU:HD22	1:E:129:ILE:N	2.26	0.50
1:E:466:THR:HB	1:E:511:LEU:HD23	1.92	0.50
1:B:122:SER:OG	1:B:182:LEU:HA	2.12	0.50
1:B:206:SER:HB3	1:B:208:TYR:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:218:ILE:CG2	2:C:255:MET:HE2	2.41	0.50
2:D:11:LYS:HG3	2:D:12:SER:N	2.26	0.50
2:D:246:GLU:N	2:D:310:TRP:HH2	2.09	0.50
1:A:184:TRP:CD1	1:A:209:THR:O	2.64	0.50
1:A:370:LEU:HD22	1:A:393:LEU:CD2	2.40	0.50
1:A:494:ARG:C	3:A:702:HOH:O	2.28	0.50
1:A:560:ARG:NH2	1:A:561:GLY:O	2.45	0.50
1:E:224:LYS:HG3	1:E:228:TRP:CZ3	2.31	0.50
2:C:132:ALA:O	2:D:94:ARG:HD3	2.12	0.50
1:A:228:TRP:CZ2	1:A:409:GLN:CB	2.95	0.50
1:A:252:GLY:N	1:A:255:SER:OG	2.45	0.50
1:A:492:VAL:HG13	1:A:557:ILE:CG1	2.41	0.50
1:A:546:PHE:N	1:A:546:PHE:CD1	2.79	0.50
2:F:259:PHE:HE1	2:F:267:PHE:CB	2.18	0.50
1:B:117:LYS:HD2	1:B:439:PHE:HE1	1.72	0.50
2:C:95:PHE:CD1	2:C:95:PHE:C	2.85	0.50
2:C:232:ASN:HA	2:C:278:LYS:CE	2.42	0.50
2:D:230:PHE:CA	2:D:233:VAL:HG23	2.42	0.50
1:A:298:LEU:CD2	1:A:298:LEU:N	2.73	0.50
1:A:298:LEU:HD22	1:A:342:LEU:HD11	1.93	0.50
1:A:426:LEU:O	1:A:430:MET:HB2	2.12	0.50
1:A:456:TYR:N	1:A:537:LYS:CB	2.74	0.50
1:E:113:VAL:HG22	1:E:114:GLU:N	2.26	0.50
1:E:531:SER:CA	2:F:418:PHE:O	2.50	0.50
2:F:110:ILE:HD12	2:F:115:LEU:CD1	2.29	0.50
2:F:117:LYS:HD3	2:F:117:LYS:O	2.12	0.50
2:F:251:LEU:O	2:F:254:PRO:CG	2.60	0.50
2:F:301:PHE:CE1	2:F:304:ALA:HB3	2.47	0.50
2:C:126:VAL:O	2:C:129:ARG:HG2	2.12	0.50
2:C:280:TYR:CE2	2:C:281:GLU:HG2	2.46	0.50
2:D:190:TYR:HD1	2:D:190:TYR:C	2.15	0.50
1:A:432:TYR:OH	1:A:525:ARG:CB	2.59	0.50
1:A:454:VAL:O	1:A:538:ILE:CA	2.57	0.50
1:A:499:GLU:HG3	1:A:499:GLU:O	2.10	0.50
1:E:248:ILE:CG1	1:E:382:PRO:HB3	2.41	0.50
2:F:236:GLU:O	2:F:240:SER:OG	2.27	0.50
1:B:118:PHE:HE1	1:B:306:HIS:CG	2.08	0.50
1:B:213:ILE:HG23	3:B:725:HOH:O	2.11	0.50
1:B:250:ILE:CD1	1:B:373:THR:HG23	2.02	0.50
1:B:395:VAL:O	1:B:398:ASP:CB	2.59	0.50
1:B:456:TYR:H	1:B:456:TYR:HD2	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:40:TYR:CE2	2:C:67:PHE:CE1	2.83	0.50
2:C:258:HIS:CD2	2:C:258:HIS:C	2.86	0.50
2:D:60:LEU:HD23	2:D:159:TRP:HZ2	1.75	0.50
2:D:308:ILE:O	2:D:312:ALA:N	2.38	0.50
1:A:276:LEU:CG	1:A:354:HIS:O	2.60	0.50
1:E:435:LYS:HB3	1:E:441:PHE:CD1	2.47	0.50
1:E:465:LEU:HB2	1:E:508:LEU:HD21	1.94	0.50
2:F:9:PRO:HB2	2:F:50:TYR:HA	1.93	0.50
2:F:103:ASN:HB3	2:F:115:LEU:CD2	2.42	0.50
2:F:259:PHE:CD1	2:F:259:PHE:C	2.86	0.50
1:B:530:HIS:NE2	2:D:416:LYS:O	2.30	0.50
2:C:9:PRO:CG	2:C:50:TYR:HD1	2.24	0.50
2:D:272:ILE:O	2:D:276:LEU:HD23	2.11	0.50
1:A:182:LEU:HB3	1:A:183:PHE:CD2	2.46	0.50
1:A:430:MET:HG3	1:A:566:PRO:CB	2.41	0.50
1:E:524:PHE:CD2	1:E:524:PHE:C	2.85	0.50
2:F:256:MET:O	2:F:259:PHE:HB3	2.12	0.50
2:D:76:PHE:CD2	2:D:76:PHE:C	2.86	0.49
2:D:259:PHE:CD1	2:D:259:PHE:C	2.86	0.49
1:A:76:TYR:HD2	1:A:78:ILE:CD1	2.25	0.49
1:E:364:TRP:CE3	1:E:369:GLY:N	2.80	0.49
1:E:468:LEU:CD2	1:E:513:TYR:HE1	2.25	0.49
1:E:516:PHE:C	1:E:516:PHE:CD1	2.86	0.49
1:E:598:TRP:CD1	1:E:599:LYS:N	2.80	0.49
3:E:744:HOH:O	2:F:10:TRP:HH2	1.92	0.49
2:F:116:ALA:CA	2:F:119:ILE:CD1	2.85	0.49
1:B:98:GLN:HA	1:B:143:LYS:C	2.32	0.49
1:B:232:ILE:HG21	1:B:263:LEU:HD12	1.94	0.49
1:B:325:PHE:CZ	1:B:469:LYS:HD3	2.47	0.49
1:B:572:SER:OG	1:B:575:ILE:CD1	2.60	0.49
1:A:74:HIS:ND1	1:A:74:HIS:N	2.60	0.49
1:E:523:PHE:HE1	1:E:525:ARG:O	1.94	0.49
2:F:20:LYS:HE3	2:F:159:TRP:O	2.13	0.49
2:F:103:ASN:HB3	2:F:115:LEU:HD21	1.94	0.49
2:F:214:TYR:C	2:F:214:TYR:CD2	2.85	0.49
2:C:142:MET:CE	2:C:142:MET:CA	2.86	0.49
2:D:190:TYR:C	2:D:190:TYR:CD1	2.86	0.49
1:A:296:ILE:CG2	1:A:342:LEU:HD23	2.41	0.49
1:A:296:ILE:HD12	1:A:338:LEU:CD2	2.41	0.49
1:A:389:ASN:OD1	1:A:389:ASN:N	2.46	0.49
1:B:440:LYS:C	1:B:441:PHE:CD2	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:8:THR:N	1:A:585:TYR:O	2.40	0.49
2:C:15:GLU:O	2:C:18:TYR:HB3	2.13	0.49
2:C:94:ARG:CG	1:A:598:TRP:CH2	2.94	0.49
2:D:122:PRO:HD2	2:D:125:PHE:CD1	2.48	0.49
1:A:169:LEU:HD12	1:A:183:PHE:CE1	2.47	0.49
1:E:323:VAL:HA	1:E:334:ARG:NH1	2.27	0.49
1:E:525:ARG:CG	1:E:525:ARG:NH2	2.73	0.49
1:B:447:LEU:CD1	1:B:575:ILE:HG21	2.43	0.49
2:C:230:PHE:HA	2:C:233:VAL:HG21	1.95	0.49
2:C:260:ILE:HD13	2:C:260:ILE:N	2.27	0.49
2:C:260:ILE:CG2	2:C:315:GLN:HE22	2.17	0.49
2:D:149:ARG:NE	2:D:149:ARG:CA	2.72	0.49
1:A:239:TYR:OH	1:A:276:LEU:HB2	2.13	0.49
1:A:329:LYS:CD	1:A:364:TRP:CH2	2.94	0.49
1:A:476:ASP:O	1:A:479:GLU:OE1	2.30	0.49
1:E:180:LYS:O	1:E:181:ASN:HB2	2.11	0.49
1:E:297:SER:HA	1:E:319:GLN:O	2.12	0.49
1:E:513:TYR:C	1:E:513:TYR:CD2	2.85	0.49
2:F:11:LYS:HB3	2:F:11:LYS:HZ2	1.75	0.49
2:F:316:ILE:HG12	2:F:346:LEU:HD22	1.93	0.49
1:B:326:ASN:N	1:B:326:ASN:ND2	2.60	0.49
1:B:331:GLN:HE22	1:B:468:LEU:CB	2.25	0.49
1:B:395:VAL:O	1:B:398:ASP:HB2	2.11	0.49
2:C:417:PRO:HB2	1:A:584:PRO:HG3	1.94	0.49
1:A:100:GLY:HA3	1:A:158:SER:HB2	1.93	0.49
1:A:290:TYR:CD1	1:A:315:THR:HG21	2.48	0.49
1:A:572:SER:O	1:A:575:ILE:HD11	1.85	0.49
1:E:225:HIS:N	1:E:228:TRP:CB	2.76	0.49
1:E:318:THR:CG2	1:E:319:GLN:CD	2.81	0.49
1:E:322:TYR:CE2	1:E:324:GLY:CA	2.85	0.49
1:E:482:ILE:HD13	1:E:508:LEU:HD12	1.95	0.49
2:F:40:TYR:O	2:F:44:ILE:HD12	2.13	0.49
2:F:158:TYR:CD1	2:F:159:TRP:NE1	2.80	0.49
1:B:486:ILE:HD11	1:B:563:THR:O	2.13	0.49
2:C:158:TYR:CD1	2:C:158:TYR:C	2.85	0.49
2:C:180:ILE:HG13	2:C:181:LYS:N	2.26	0.49
2:C:280:TYR:CB	2:C:334:THR:HG23	2.31	0.49
2:C:323:LEU:O	2:C:327:MET:HG3	2.12	0.49
1:A:71:ILE:O	1:A:71:ILE:HG12	2.12	0.49
1:A:325:PHE:HB2	1:A:330:ASP:CB	2.39	0.49
1:E:74:HIS:CD2	1:E:75:ASP:CG	2.86	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:294:ASP:HB3	1:E:322:TYR:CE2	2.47	0.49
1:E:568:TRP:O	1:E:575:ILE:HD11	2.11	0.49
2:C:10:TRP:CD2	2:C:16:VAL:CG2	2.96	0.49
2:C:65:HIS:HB3	2:C:91:THR:HG22	1.93	0.49
2:C:279:ASN:HD21	2:C:308:ILE:CD1	2.17	0.49
2:D:230:PHE:CB	2:D:233:VAL:HG21	2.42	0.49
1:A:176:CYS:HB3	1:A:179:PHE:HD1	1.77	0.49
1:A:346:TYR:O	1:A:350:GLY:N	2.46	0.49
1:E:109:TYR:CE1	1:E:271:PRO:CD	2.86	0.49
1:E:260:PHE:C	1:E:260:PHE:CD2	2.86	0.49
1:E:486:ILE:O	1:E:526:LEU:HD22	2.13	0.49
2:F:252:PHE:O	2:F:255:MET:HG2	2.12	0.49
1:B:138:SER:HA	1:B:139:LEU:C	2.33	0.49
2:C:133:THR:HG22	2:D:97:ASN:ND2	2.27	0.49
2:C:314:GLU:HG2	2:C:318:ARG:HH12	1.78	0.49
2:D:28:ARG:HA	2:D:31:ILE:HD11	1.95	0.49
1:E:93:PHE:C	1:E:93:PHE:CD2	2.85	0.49
1:E:100:GLY:C	1:E:111:SER:OG	2.45	0.49
1:E:446:LEU:HD13	1:E:528:LEU:CD2	2.10	0.49
2:F:9:PRO:CD	2:F:10:TRP:CZ3	2.96	0.49
1:B:432:TYR:OH	1:B:525:ARG:HD2	2.13	0.49
2:C:268:PRO:HA	2:C:271:LEU:HB3	1.93	0.49
2:C:304:ALA:O	2:C:307:TRP:CA	2.61	0.49
2:D:92:ILE:O	2:D:96:VAL:HG23	2.13	0.49
1:A:280:PHE:C	1:A:280:PHE:CD2	2.86	0.49
1:A:335:TYR:CD1	1:A:335:TYR:C	2.85	0.49
1:A:375:THR:O	1:A:379:ARG:HB2	2.12	0.49
1:A:440:LYS:HB2	1:A:440:LYS:NZ	2.27	0.49
1:A:472:GLY:C	1:A:473:ILE:HG12	2.34	0.49
1:E:560:ARG:HD3	1:E:561:GLY:N	2.28	0.49
2:F:269:LEU:CD1	2:F:326:LYS:CB	2.90	0.49
1:B:127:PRO:CA	1:B:222:VAL:HG21	2.40	0.48
2:D:28:ARG:CG	2:D:28:ARG:NH1	2.73	0.48
2:D:145:THR:O	2:D:149:ARG:HG2	2.13	0.48
2:D:334:THR:CB	2:D:342:LEU:CB	2.91	0.48
1:A:207:ASP:C	1:A:208:TYR:CD2	2.85	0.48
1:E:485:THR:OG1	1:E:487:VAL:CG1	2.61	0.48
1:E:587:THR:C	2:F:5:PRO:HB2	2.32	0.48
1:B:248:ILE:HD12	1:B:376:LEU:HD11	1.94	0.48
1:B:305:GLN:CG	1:B:309:HIS:CG	2.96	0.48
1:B:318:THR:CG2	1:B:319:GLN:CD	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:366:LYS:CE	1:B:366:LYS:CA	2.89	0.48
1:B:469:LYS:HG3	1:B:470:GLU:H	1.76	0.48
2:C:124:LEU:O	2:C:124:LEU:HD13	2.12	0.48
2:D:125:PHE:HE1	2:D:149:ARG:HB3	1.78	0.48
1:A:310:LEU:HB3	1:A:428:LYS:CD	2.43	0.48
1:A:358:LEU:HD12	1:A:359:ILE:N	2.25	0.48
1:E:71:ILE:HD12	1:E:71:ILE:C	2.33	0.48
1:E:74:HIS:CD2	1:E:74:HIS:C	2.85	0.48
1:E:445:PRO:CG	1:E:448:PHE:CE1	2.96	0.48
2:F:20:LYS:HA	2:F:159:TRP:HZ3	0.63	0.48
2:F:272:ILE:HG12	2:F:315:GLN:HE21	1.77	0.48
1:B:122:SER:N	1:B:182:LEU:CD2	2.69	0.48
1:B:213:ILE:CG2	3:B:725:HOH:O	2.60	0.48
2:D:99:LEU:CD1	2:D:121:LEU:HD11	2.33	0.48
2:D:128:PHE:CD1	2:D:128:PHE:C	2.85	0.48
2:D:321:ASP:O	2:D:325:SER:N	2.42	0.48
1:A:290:TYR:CE1	1:A:315:THR:HG21	2.48	0.48
1:E:104:ILE:HG23	1:E:129:ILE:HG13	1.95	0.48
1:E:264:LEU:CD1	1:E:358:LEU:CD1	2.86	0.48
1:E:361:THR:HG22	1:E:362:PRO:CD	2.39	0.48
1:E:502:LEU:CB	1:E:509:PRO:CB	2.77	0.48
1:B:121:PRO:HG2	1:B:124:SER:HB3	1.94	0.48
1:B:235:LEU:N	1:B:235:LEU:HD22	2.28	0.48
1:B:456:TYR:HE2	1:B:537:LYS:CA	1.76	0.48
1:B:570:ILE:C	1:B:575:ILE:CD1	2.82	0.48
2:C:89:SER:O	2:C:93:ILE:CG1	2.61	0.48
1:E:328:PRO:HB3	1:E:335:TYR:CD2	2.49	0.48
2:F:33:ARG:O	2:F:34:ASP:C	2.51	0.48
2:F:119:ILE:O	2:F:120:ASP:HB3	2.13	0.48
1:B:62:ASN:C	1:B:88:ILE:CD1	2.82	0.48
1:B:523:PHE:CZ	1:B:525:ARG:O	2.66	0.48
1:B:598:TRP:CE3	2:D:58:HIS:NE2	2.80	0.48
2:D:354:PRO:O	2:D:358:ASP:N	2.42	0.48
1:A:107:VAL:CG2	1:A:109:TYR:CE2	2.97	0.48
1:A:111:SER:CB	1:A:141:GLU:C	2.78	0.48
1:A:165:LEU:HD12	1:A:167:THR:HB	1.59	0.48
1:A:310:LEU:HB3	1:A:428:LYS:HD2	1.95	0.48
1:A:359:ILE:CG2	1:A:360:ASN:N	2.76	0.48
1:E:294:ASP:OD2	1:E:563:THR:CB	2.60	0.48
1:E:310:LEU:HB3	1:E:428:LYS:CG	2.43	0.48
1:E:325:PHE:HD1	1:E:325:PHE:N	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:399:ILE:HG13	1:E:399:ILE:O	2.11	0.48
1:E:528:LEU:HD12	1:E:528:LEU:C	2.34	0.48
1:E:598:TRP:O	1:E:599:LYS:HG3	2.14	0.48
1:B:238:LEU:HD11	3:B:715:HOH:O	1.90	0.48
1:B:257:LYS:O	1:B:260:PHE:CB	2.61	0.48
2:C:95:PHE:CD1	2:C:99:LEU:HD11	2.49	0.48
2:D:28:ARG:C	2:D:31:ILE:HD11	2.33	0.48
2:D:74:GLU:OE2	2:D:144:LYS:HE2	2.14	0.48
1:A:94:VAL:C	1:A:162:LEU:HB2	2.24	0.48
1:A:95:LEU:CG	1:A:116:MET:HE3	2.43	0.48
1:A:225:HIS:O	1:A:228:TRP:N	2.47	0.48
1:A:351:GLU:OE1	1:A:352:LEU:N	2.45	0.48
1:A:576:VAL:O	1:A:580:LYS:N	2.47	0.48
1:E:232:ILE:CG2	1:E:233:LYS:N	2.75	0.48
1:E:454:VAL:HA	2:F:407:PHE:H	1.78	0.48
1:B:68:ASP:CA	3:B:712:HOH:O	2.44	0.48
1:B:94:VAL:HG23	1:B:165:LEU:HD13	1.96	0.48
1:B:368:TYR:CD1	1:B:368:TYR:C	2.87	0.48
2:C:24:PHE:CE2	2:C:67:PHE:HZ	2.30	0.48
2:D:327:MET:CA	2:D:330:THR:HG1	2.19	0.48
1:A:162:LEU:N	1:A:162:LEU:CD1	2.73	0.48
1:A:298:LEU:HD21	1:A:319:GLN:OE1	2.14	0.48
1:A:489:ILE:CG2	1:A:524:PHE:HB3	2.44	0.48
2:F:256:MET:O	2:F:259:PHE:N	2.46	0.48
2:D:139:SER:HB3	1:A:469:LYS:CE	2.44	0.48
2:D:327:MET:HA	2:D:330:THR:CG2	2.44	0.48
1:A:466:THR:HA	1:A:511:LEU:O	2.13	0.48
1:A:473:ILE:CG2	1:A:474:GLY:N	2.76	0.48
1:A:503:PHE:HB3	3:A:736:HOH:O	2.14	0.48
1:E:318:THR:C	1:E:319:GLN:CG	2.73	0.48
1:E:364:TRP:CZ3	1:E:368:TYR:CB	2.86	0.48
1:E:400:PRO:O	1:E:401:LYS:CD	2.62	0.48
1:B:490:PHE:HB3	1:B:557:ILE:CD1	2.44	0.48
1:B:598:TRP:CD2	2:D:98:GLY:CA	2.97	0.48
2:C:11:LYS:CG	1:A:585:TYR:CD2	2.86	0.48
1:A:175:VAL:HB	1:A:568:TRP:HB3	1.96	0.48
1:A:280:PHE:CE2	1:A:282:ASP:HB2	2.35	0.48
1:E:430:MET:HB2	1:E:566:PRO:HG3	1.95	0.48
2:F:237:ARG:CA	2:F:237:ARG:NE	2.73	0.48
2:F:331:LEU:HB3	2:F:343:LEU:HD11	1.96	0.48
1:B:170:GLU:OE2	1:B:180:LYS:O	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:469:LYS:CG	1:B:470:GLU:N	2.73	0.48
2:C:12:SER:N	1:A:584:PRO:O	2.46	0.48
1:A:277:PRO:O	1:A:277:PRO:HG2	2.14	0.48
1:A:277:PRO:O	1:A:355:GLU:CB	2.62	0.48
1:A:370:LEU:O	1:A:373:THR:HB	2.13	0.48
1:E:99:ARG:CB	1:E:142:ASN:ND2	2.75	0.48
1:E:227:ASN:ND2	1:E:228:TRP:N	2.62	0.48
1:E:451:PRO:HD3	2:F:413:TRP:CE3	2.43	0.48
1:B:327:SER:OG	1:B:329:LYS:HE2	2.13	0.47
1:B:358:LEU:O	1:B:359:ILE:HG13	2.13	0.47
1:B:432:TYR:O	1:B:435:LYS:HG2	2.14	0.47
2:D:56:VAL:HG23	2:D:61:GLN:HB2	1.94	0.47
2:D:268:PRO:CA	2:D:271:LEU:CD1	2.85	0.47
2:D:268:PRO:C	2:D:271:LEU:HD12	2.34	0.47
1:A:184:TRP:HE1	1:A:210:PHE:C	2.17	0.47
1:A:239:TYR:CZ	1:A:276:LEU:HD12	2.48	0.47
1:A:305:GLN:OE1	1:A:315:THR:HG23	2.14	0.47
1:E:65:PHE:HB2	3:E:728:HOH:O	2.13	0.47
1:B:239:TYR:O	1:B:274:GLN:CD	2.50	0.47
1:B:290:TYR:HA	1:B:311:SER:CB	2.44	0.47
1:B:491:LYS:NZ	1:B:491:LYS:HB3	2.30	0.47
1:B:502:LEU:HD23	1:B:502:LEU:O	2.13	0.47
1:B:553:LYS:HG3	1:B:553:LYS:O	2.13	0.47
1:B:570:ILE:O	1:B:575:ILE:HD12	2.14	0.47
1:B:598:TRP:HB2	2:D:58:HIS:ND1	2.28	0.47
2:D:6:ARG:HH11	2:D:6:ARG:CG	2.21	0.47
1:E:466:THR:HB	1:E:511:LEU:HB3	1.96	0.47
2:C:43:ALA:HA	2:C:46:LEU:CD1	2.44	0.47
1:A:294:ASP:HB3	1:A:323:VAL:HG23	1.96	0.47
1:E:377:ILE:HG23	1:E:382:PRO:HG3	1.95	0.47
1:E:458:VAL:O	1:E:458:VAL:HG12	2.13	0.47
1:E:473:ILE:HD13	2:F:48:GLU:OE2	2.14	0.47
2:F:10:TRP:C	2:F:15:GLU:OE1	2.52	0.47
2:F:247:HIS:CD2	2:F:247:HIS:N	2.73	0.47
2:F:420:VAL:O	2:F:421:ILE:HG13	2.11	0.47
1:B:456:TYR:CE1	1:B:479:GLU:OE2	2.67	0.47
1:B:492:VAL:HG22	1:B:493:LYS:N	2.29	0.47
1:A:213:ILE:CD1	1:A:219:THR:OG1	2.59	0.47
1:A:313:THR:HG22	1:A:314:SER:N	2.30	0.47
1:E:235:LEU:O	1:E:238:LEU:HB3	2.13	0.47
2:F:20:LYS:HB2	2:F:159:TRP:CE3	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:186:LEU:HD13	2:F:224:HIS:NE2	2.27	0.47
2:F:238:ILE:HA	2:F:252:PHE:HZ	1.79	0.47
1:B:87:LEU:O	1:B:128:LEU:CD2	2.63	0.47
1:B:229:MET:O	1:B:233:LYS:HB2	2.14	0.47
1:B:327:SER:HB3	1:B:329:LYS:NZ	2.30	0.47
1:B:380:VAL:HG12	1:B:382:PRO:N	2.29	0.47
1:B:456:TYR:CE2	1:B:537:LYS:CB	2.96	0.47
2:C:8:THR:O	1:A:585:TYR:HB3	2.13	0.47
2:C:276:LEU:HD11	2:C:331:LEU:CG	2.44	0.47
1:E:400:PRO:O	1:E:401:LYS:HD3	2.14	0.47
2:F:113:HIS:ND1	2:F:114:LEU:N	2.62	0.47
1:B:530:HIS:HA	2:D:418:PHE:CE1	2.49	0.47
2:C:247:HIS:O	2:C:250:ALA:N	2.47	0.47
1:E:88:ILE:HG23	1:E:128:LEU:CD2	2.42	0.47
2:F:82:ASP:O	2:F:86:LEU:HG	2.13	0.47
1:B:279:ASN:CG	1:B:300:LYS:CE	2.79	0.47
1:B:313:THR:HG22	1:B:314:SER:N	2.29	0.47
1:B:482:ILE:O	1:B:485:THR:HG23	2.15	0.47
2:C:53:ARG:CG	2:C:53:ARG:NH1	2.73	0.47
2:C:416:LYS:CD	2:C:416:LYS:N	2.73	0.47
2:D:18:TYR:O	2:D:22:LEU:HD21	2.15	0.47
2:D:74:GLU:C	2:D:76:PHE:N	2.64	0.47
2:D:310:TRP:CD1	2:D:313:ILE:HD12	2.48	0.47
1:A:246:LYS:C	1:A:382:PRO:O	2.44	0.47
1:A:401:LYS:HA	1:A:401:LYS:CE	2.44	0.47
1:A:408:LEU:HD12	3:A:731:HOH:O	2.15	0.47
1:A:475:MET:CE	1:A:478:LEU:HD22	2.45	0.47
1:E:167:THR:HG22	3:E:711:HOH:O	2.14	0.47
1:E:397:ILE:CD1	1:E:397:ILE:N	2.73	0.47
2:F:22:LEU:HD13	2:F:43:ALA:H	1.78	0.47
2:F:89:SER:OG	2:F:137:LEU:CD1	2.62	0.47
2:F:120:ASP:OD2	2:F:157:HIS:CE1	2.68	0.47
2:F:238:ILE:CB	2:F:307:TRP:HZ3	2.28	0.47
1:B:325:PHE:CE2	1:B:469:LYS:HD3	2.50	0.47
1:B:388:LEU:HA	1:B:406:ILE:HG13	1.96	0.47
2:C:252:PHE:O	2:C:255:MET:HB2	2.15	0.47
2:D:18:TYR:O	2:D:22:LEU:CD2	2.63	0.47
1:A:328:PRO:HB3	1:A:335:TYR:HE2	1.78	0.47
1:A:420:SER:HB2	1:A:423:GLN:HB3	1.94	0.47
1:E:438:ASP:CG	1:E:439:PHE:CD1	2.85	0.47
1:E:533:ASP:CG	1:E:536:LYS:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:40:TYR:CD1	2:F:67:PHE:CE2	3.03	0.47
2:F:40:TYR:CE2	2:F:67:PHE:CE2	3.02	0.47
2:F:82:ASP:C	2:F:86:LEU:HD12	2.36	0.47
1:B:328:PRO:CB	1:B:335:TYR:CD2	2.86	0.47
1:B:343:VAL:HA	1:B:346:TYR:CB	2.45	0.47
1:B:359:ILE:CG2	1:B:360:ASN:N	2.77	0.47
2:C:119:ILE:H	2:C:119:ILE:HG12	1.57	0.47
2:C:320:ASP:OD1	2:C:320:ASP:N	2.41	0.47
2:D:234:MET:C	2:D:234:MET:SD	2.94	0.47
1:A:579:PHE:O	1:A:580:LYS:HB2	2.14	0.47
1:B:543:ILE:CD1	1:B:546:PHE:CD2	2.98	0.47
2:C:85:ARG:HE	2:C:137:LEU:HG	1.80	0.47
2:D:74:GLU:O	2:D:76:PHE:N	2.48	0.47
1:A:296:ILE:HG21	1:A:342:LEU:CD2	2.44	0.47
1:E:340:GLU:O	1:E:344:ARG:HG2	2.14	0.47
1:E:388:LEU:HD12	1:E:408:LEU:HA	1.97	0.47
1:E:468:LEU:HD22	1:E:469:LYS:N	2.30	0.47
2:F:179:LEU:HG	2:F:180:ILE:N	2.30	0.47
1:B:87:LEU:O	1:B:128:LEU:HD23	2.16	0.46
1:B:271:PRO:HA	1:B:275:GLN:HE21	1.80	0.46
1:B:305:GLN:CD	1:B:309:HIS:CD2	2.89	0.46
1:B:465:LEU:HD23	1:B:466:THR:C	2.35	0.46
2:C:48:GLU:CD	2:D:80:LEU:CD2	2.83	0.46
2:C:159:TRP:HA	2:C:159:TRP:CE3	2.50	0.46
2:C:218:ILE:HG21	2:C:255:MET:HE2	1.97	0.46
2:C:418:PHE:HD2	2:C:418:PHE:H	1.63	0.46
2:D:95:PHE:CE2	2:D:150:ALA:HB1	2.50	0.46
1:A:133:GLN:OE1	1:A:136:ASN:CB	2.63	0.46
1:A:420:SER:O	1:A:423:GLN:CA	2.63	0.46
1:E:172:ILE:CD1	1:E:182:LEU:HB2	2.41	0.46
1:E:207:ASP:OD1	1:E:207:ASP:N	2.48	0.46
1:B:492:VAL:HG12	1:B:557:ILE:CG1	2.45	0.46
1:B:528:LEU:O	1:B:542:TYR:N	2.46	0.46
2:C:22:LEU:HD23	2:C:43:ALA:CB	2.44	0.46
2:C:251:LEU:C	2:C:254:PRO:HD2	2.35	0.46
1:A:307:GLY:O	1:A:309:HIS:HD2	1.98	0.46
1:A:530:HIS:HD2	1:A:531:SER:OG	1.97	0.46
2:F:122:PRO:CG	2:F:125:PHE:CD2	2.98	0.46
2:F:131:SER:O	2:F:135:ASP:N	2.49	0.46
2:F:336:HIS:CB	2:F:339:ASN:CB	2.92	0.46
1:B:104:ILE:CD1	1:B:104:ILE:H	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:180:LYS:CD	1:B:181:ASN:H	2.29	0.46
2:C:225:ALA:CA	2:C:227:MET:SD	2.94	0.46
2:D:116:ALA:C	2:D:119:ILE:HG22	2.36	0.46
2:D:269:LEU:CA	2:D:272:ILE:CD1	2.86	0.46
1:A:118:PHE:CD1	1:A:306:HIS:HB3	2.51	0.46
1:A:294:ASP:CG	1:A:325:PHE:C	2.73	0.46
1:E:110:HIS:HE2	1:E:137:SER:H	1.64	0.46
1:E:161:LYS:NZ	1:E:163:THR:HG1	2.08	0.46
1:E:482:ILE:C	1:E:485:THR:HG23	2.24	0.46
1:E:504:ASN:O	1:E:509:PRO:CA	2.63	0.46
1:E:525:ARG:HD2	1:E:543:ILE:HD11	1.96	0.46
2:F:252:PHE:O	2:F:256:MET:CG	2.51	0.46
1:B:171:SER:OG	1:B:174:ARG:CD	2.48	0.46
1:B:293:THR:CG2	1:B:425:ARG:HD2	2.45	0.46
1:B:543:ILE:HD11	1:B:546:PHE:CD2	2.48	0.46
2:D:194:ARG:HH11	2:D:194:ARG:CG	2.21	0.46
2:D:331:LEU:CB	2:D:343:LEU:CD2	2.84	0.46
1:A:176:CYS:HB3	1:A:179:PHE:HB2	1.98	0.46
1:A:456:TYR:O	1:A:537:LYS:CB	2.63	0.46
1:A:489:ILE:O	1:A:524:PHE:CB	2.64	0.46
1:A:511:LEU:HD23	1:A:511:LEU:C	2.34	0.46
1:A:546:PHE:HD1	1:A:546:PHE:H	1.63	0.46
1:E:225:HIS:N	1:E:225:HIS:ND1	2.60	0.46
1:E:335:TYR:OH	1:E:362:PRO:HG2	2.15	0.46
2:F:331:LEU:HG	2:F:343:LEU:CD1	2.45	0.46
1:B:287:GLN:OE1	1:B:287:GLN:HA	2.15	0.46
1:B:446:LEU:O	1:B:542:TYR:CZ	2.69	0.46
1:B:463:SER:OG	1:B:555:ALA:HB1	2.14	0.46
1:B:502:LEU:N	1:B:502:LEU:CD2	2.73	0.46
2:C:101:ASP:C	2:C:103:ASN:H	2.18	0.46
2:C:151:ILE:HG23	2:C:152:ASP:N	2.30	0.46
1:A:322:TYR:HB2	1:A:523:PHE:CE2	2.50	0.46
1:E:364:TRP:CH2	1:E:368:TYR:CD1	3.02	0.46
1:E:492:VAL:HG21	1:E:496:HIS:CB	2.46	0.46
2:F:33:ARG:CB	2:F:33:ARG:NH2	2.73	0.46
2:F:33:ARG:HB3	2:F:33:ARG:NH2	2.30	0.46
1:B:186:PHE:HD2	1:B:187:ASP:N	2.13	0.46
1:B:447:LEU:HD12	1:B:575:ILE:HG21	1.98	0.46
2:C:143:CYS:O	2:C:147:VAL:HG23	2.16	0.46
1:A:93:PHE:HB3	1:A:210:PHE:CB	2.45	0.46
1:A:322:TYR:CG	1:A:523:PHE:CZ	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:296:ILE:HD11	1:E:335:TYR:CE1	2.51	0.46
1:E:525:ARG:HG3	1:E:525:ARG:NH2	2.31	0.46
1:B:178:LEU:HD13	1:B:178:LEU:HA	1.72	0.46
1:B:381:LYS:N	1:B:382:PRO:CD	2.78	0.46
1:B:417:SER:N	1:B:419:TYR:HA	2.30	0.46
1:B:445:PRO:HG2	1:B:448:PHE:CE1	2.51	0.46
1:B:528:LEU:HG	1:B:542:TYR:HB2	1.97	0.46
2:C:280:TYR:CB	2:C:334:THR:CG2	2.72	0.46
1:A:322:TYR:CB	1:A:523:PHE:CD1	2.98	0.46
1:A:475:MET:SD	1:A:475:MET:C	2.94	0.46
1:E:95:LEU:HB2	1:E:161:LYS:O	2.16	0.46
1:E:233:LYS:NZ	1:E:236:THR:OG1	2.48	0.46
1:E:346:TYR:O	1:E:350:GLY:CA	2.63	0.46
2:F:272:ILE:O	2:F:276:LEU:HG	2.15	0.46
1:B:81:LEU:CD2	1:B:87:LEU:HD21	2.44	0.46
1:B:436:ILE:HG23	1:B:437:ASP:N	2.31	0.46
1:B:525:ARG:HA	1:B:525:ARG:HD3	1.69	0.46
2:C:307:TRP:O	2:C:310:TRP:N	2.49	0.46
2:D:96:VAL:O	2:D:100:LEU:HD12	2.16	0.46
2:D:255:MET:SD	2:D:259:PHE:HB3	2.55	0.46
1:A:123:SER:HG	1:A:419:TYR:HE1	1.61	0.46
1:A:451:PRO:HG2	1:A:540:ASN:OD1	2.15	0.46
1:E:283:LEU:CD1	1:E:339:VAL:HG11	2.45	0.46
1:E:372:LEU:HD23	1:E:372:LEU:HA	1.76	0.46
1:E:420:SER:O	1:E:423:GLN:HB3	2.15	0.46
1:E:531:SER:OG	2:F:418:PHE:C	2.54	0.46
2:F:110:ILE:HD12	2:F:111:PRO:O	2.16	0.46
1:B:180:LYS:HE2	1:B:181:ASN:N	2.30	0.46
1:B:257:LYS:HA	1:B:260:PHE:CB	2.46	0.46
1:B:432:TYR:CD2	1:B:526:LEU:HB2	2.47	0.46
1:B:490:PHE:CE2	1:B:559:VAL:HG21	2.51	0.46
2:C:146:CYS:O	2:C:149:ARG:HB3	2.15	0.46
2:D:259:PHE:HE1	2:D:268:PRO:CG	2.22	0.46
2:D:342:LEU:O	2:D:346:LEU:CG	2.55	0.46
1:A:475:MET:HE2	1:A:478:LEU:HD22	1.98	0.46
1:A:568:TRP:O	1:A:572:SER:HB3	2.16	0.46
1:E:138:SER:HB3	1:E:140:LEU:N	2.30	0.46
2:F:237:ARG:HE	2:F:237:ARG:CA	2.13	0.46
2:C:53:ARG:HH21	1:A:481:SER:HA	1.81	0.46
2:D:139:SER:CB	1:A:469:LYS:HE3	2.44	0.46
2:D:151:ILE:O	2:D:154:VAL:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:126:ILE:N	1:A:220:VAL:O	2.38	0.46
1:A:498:GLU:HG3	1:A:498:GLU:O	2.16	0.46
1:E:284:ASP:OD1	1:E:286:GLY:N	2.49	0.46
1:E:450:PRO:HA	2:F:413:TRP:CD1	2.51	0.46
1:E:466:THR:HG21	1:E:516:PHE:CB	2.46	0.46
1:B:67:ASP:O	1:B:69:ASN:N	2.43	0.45
1:B:138:SER:HB3	1:B:140:LEU:O	2.16	0.45
2:C:260:ILE:O	2:C:264:GLY:CA	2.65	0.45
1:A:170:GLU:HG3	1:A:185:GLN:CD	2.32	0.45
1:E:445:PRO:HG3	1:E:448:PHE:CZ	2.51	0.45
2:C:232:ASN:CA	2:C:278:LYS:HZ3	2.29	0.45
2:D:68:SER:O	2:D:71:MET:HB2	2.16	0.45
1:A:466:THR:OG1	1:A:512:PRO:C	2.55	0.45
1:E:219:THR:HG22	1:E:220:VAL:H	1.80	0.45
1:E:269:LEU:HD21	1:E:278:ILE:CG2	2.45	0.45
1:E:309:HIS:CD2	1:E:313:THR:OG1	2.68	0.45
1:E:377:ILE:HD13	1:E:377:ILE:N	2.31	0.45
1:E:468:LEU:HG	1:E:513:TYR:HE1	1.80	0.45
1:E:586:ILE:CA	2:F:6:ARG:O	2.64	0.45
2:F:40:TYR:CD1	2:F:67:PHE:CD2	3.04	0.45
2:F:235:ILE:HD11	2:F:271:LEU:CD2	2.47	0.45
2:F:237:ARG:O	2:F:240:SER:HB2	2.16	0.45
1:B:107:VAL:CG2	1:B:109:TYR:HE2	2.29	0.45
1:B:121:PRO:HG2	1:B:124:SER:H	1.81	0.45
1:B:122:SER:H	1:B:182:LEU:HD21	1.78	0.45
1:B:326:ASN:H	1:B:326:ASN:ND2	2.06	0.45
2:D:93:ILE:HD11	2:D:132:ALA:HB1	1.91	0.45
1:A:108:ILE:HG12	1:A:133:GLN:HG3	1.97	0.45
1:A:342:LEU:HD12	1:A:342:LEU:HA	1.80	0.45
1:E:224:LYS:HG3	1:E:228:TRP:CE2	2.51	0.45
1:E:294:ASP:O	1:E:322:TYR:HD2	1.99	0.45
1:E:446:LEU:HD12	1:E:528:LEU:HD21	1.98	0.45
1:B:399:ILE:CG2	1:B:400:PRO:HA	2.47	0.45
1:B:572:SER:N	1:B:575:ILE:CD1	2.79	0.45
2:D:230:PHE:O	2:D:233:VAL:N	2.49	0.45
2:D:309:ARG:O	2:D:313:ILE:N	2.42	0.45
2:D:331:LEU:CD2	2:D:346:LEU:HD12	2.33	0.45
1:A:250:ILE:HG22	1:A:386:ILE:O	2.15	0.45
1:A:516:PHE:CD2	1:A:516:PHE:O	2.70	0.45
1:E:226:LYS:O	1:E:229:MET:HB3	2.15	0.45
1:E:242:ASP:HA	1:E:243:GLN:HA	1.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:298:LEU:CD2	1:E:319:GLN:OE1	2.65	0.45
1:E:507:GLN:NE2	1:E:534:GLN:HB3	2.32	0.45
2:F:338:LEU:HD12	2:F:339:ASN:ND2	2.31	0.45
1:B:118:PHE:C	1:B:119:ILE:HD13	2.36	0.45
1:B:167:THR:OG1	1:B:439:PHE:O	2.33	0.45
1:B:223:ILE:CD1	1:B:224:LYS:N	2.73	0.45
1:B:305:GLN:HG2	1:B:309:HIS:CG	2.52	0.45
1:B:572:SER:OG	1:B:575:ILE:HG13	2.16	0.45
2:D:153:TRP:O	2:D:156:ASP:HB2	2.17	0.45
1:A:92:GLN:NE2	1:A:92:GLN:N	2.63	0.45
1:A:572:SER:O	1:A:575:ILE:HG12	2.16	0.45
2:F:15:GLU:O	2:F:18:TYR:HB3	2.15	0.45
1:B:72:TYR:HE2	1:B:206:SER:H	1.62	0.45
1:B:277:PRO:O	1:B:355:GLU:CB	2.65	0.45
1:B:283:LEU:HA	1:B:296:ILE:HG12	1.99	0.45
1:B:358:LEU:HD13	1:B:358:LEU:HA	1.73	0.45
2:C:124:LEU:O	2:C:127:GLU:HB3	2.17	0.45
1:A:322:TYR:HD1	1:A:523:PHE:CE1	2.32	0.45
1:A:593:SER:HB2	1:A:594:LEU:H	1.48	0.45
1:E:124:SER:OG	1:E:125:SER:N	2.50	0.45
1:E:178:LEU:HD23	1:E:178:LEU:O	2.15	0.45
1:E:444:GLN:HE21	1:E:444:GLN:C	2.18	0.45
2:F:320:ASP:O	2:F:324:VAL:HG23	2.16	0.45
1:B:270:SER:C	1:B:272:THR:H	2.19	0.45
1:B:293:THR:HG21	1:B:425:ARG:HD2	1.98	0.45
1:B:307:GLY:O	1:B:309:HIS:N	2.47	0.45
1:B:370:LEU:O	1:B:374:ARG:N	2.42	0.45
1:B:380:VAL:HG12	1:B:382:PRO:CA	2.47	0.45
2:C:124:LEU:CD1	2:C:124:LEU:C	2.85	0.45
1:A:75:ASP:OD1	1:A:75:ASP:N	2.50	0.45
1:A:133:GLN:NE2	1:A:134:VAL:N	2.64	0.45
1:A:427:LEU:C	1:A:427:LEU:CD2	2.85	0.45
1:E:72:TYR:O	1:E:77:VAL:HG22	2.16	0.45
1:B:176:CYS:HB2	1:B:179:PHE:HB2	1.99	0.45
1:B:418:ARG:CB	1:B:419:TYR:C	2.86	0.45
1:B:456:TYR:HE1	1:B:479:GLU:OE2	1.99	0.45
2:D:68:SER:HA	2:D:71:MET:CG	2.33	0.45
2:D:343:LEU:HA	2:D:346:LEU:HD12	1.98	0.45
1:A:93:PHE:HD2	1:A:162:LEU:CG	2.25	0.45
1:E:99:ARG:CB	1:E:142:ASN:HB3	2.46	0.45
1:E:338:LEU:C	1:E:338:LEU:CD2	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:341:GLN:HA	1:E:344:ARG:HG2	1.99	0.45
1:E:382:PRO:HB2	1:E:384:HIS:O	2.17	0.45
2:F:24:PHE:CE1	2:F:155:TRP:CD2	3.02	0.45
2:F:271:LEU:HD23	2:F:271:LEU:HA	1.79	0.45
1:B:225:HIS:CB	1:B:227:ASN:HD21	2.29	0.45
2:C:250:ALA:O	2:C:254:PRO:HD2	2.17	0.45
2:C:310:TRP:CE3	2:C:310:TRP:O	2.70	0.45
2:D:410:HIS:ND1	2:D:411:PRO:CD	2.80	0.45
1:A:523:PHE:CE2	1:A:524:PHE:O	2.70	0.45
1:A:542:TYR:C	1:A:543:ILE:CG2	2.85	0.45
1:E:207:ASP:O	1:E:208:TYR:CG	2.70	0.45
1:E:310:LEU:N	1:E:310:LEU:CD2	2.73	0.45
1:E:427:LEU:C	1:E:427:LEU:CD2	2.85	0.45
1:E:486:ILE:HD11	1:E:565:LEU:HA	1.99	0.45
1:E:489:ILE:CD1	1:E:527:ALA:HB2	2.31	0.45
2:C:8:THR:CG2	1:A:587:THR:CG2	2.85	0.45
2:C:36:LEU:HD23	2:C:40:TYR:CE1	2.44	0.45
2:C:137:LEU:H	2:D:94:ARG:HH22	1.64	0.45
2:C:142:MET:HA	2:C:142:MET:HE2	1.96	0.45
2:C:211:GLY:O	2:C:215:TRP:CD1	2.70	0.45
2:C:269:LEU:HD22	2:C:323:LEU:CG	2.47	0.45
2:C:356:ILE:O	2:C:360:ILE:HG12	2.17	0.45
1:A:72:TYR:CE2	1:A:206:SER:HB2	2.13	0.45
1:A:95:LEU:CD2	1:A:116:MET:HE3	2.43	0.45
1:A:107:VAL:HG23	1:A:109:TYR:CZ	2.50	0.45
1:A:166:ASP:OD1	1:A:168:HIS:CD2	2.70	0.45
1:A:184:TRP:HE1	1:A:210:PHE:CA	2.29	0.45
1:A:278:ILE:HD13	1:A:279:ASN:N	2.32	0.45
1:A:413:ASN:CB	1:A:418:ARG:CB	2.95	0.45
1:A:452:ILE:HD13	1:A:546:PHE:CZ	2.52	0.45
1:A:478:LEU:HD21	1:A:508:LEU:HB2	1.99	0.45
1:A:523:PHE:CD2	1:A:524:PHE:O	2.70	0.45
1:E:210:PHE:CD2	1:E:210:PHE:O	2.70	0.45
1:E:283:LEU:HD13	1:E:339:VAL:HG11	1.98	0.45
1:E:298:LEU:CD2	1:E:318:THR:HB	2.47	0.45
1:E:485:THR:OG1	1:E:487:VAL:HG12	2.17	0.45
2:F:111:PRO:HB3	2:F:113:HIS:HE1	1.56	0.45
1:B:169:LEU:HD12	1:B:183:PHE:HE1	1.72	0.44
1:B:239:TYR:CE1	1:B:268:MET:HB3	2.50	0.44
1:B:368:TYR:O	1:B:371:GLU:N	2.50	0.44
2:C:137:LEU:N	2:D:94:ARG:NH2	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:190:TYR:CE2	2:D:218:ILE:HG21	2.48	0.44
2:D:257:ASN:O	2:D:260:ILE:HB	2.16	0.44
2:D:266:ASP:O	2:D:269:LEU:CB	2.65	0.44
1:A:184:TRP:CD1	1:A:184:TRP:O	2.70	0.44
1:A:239:TYR:CD1	1:A:239:TYR:O	2.70	0.44
1:A:442:ASP:N	1:A:442:ASP:OD1	2.50	0.44
1:A:524:PHE:HE2	1:A:525:ARG:NE	2.15	0.44
1:E:247:VAL:HG13	1:E:386:ILE:HD12	1.93	0.44
1:E:523:PHE:CE1	1:E:525:ARG:O	2.70	0.44
1:E:524:PHE:HD2	1:E:525:ARG:N	2.15	0.44
2:F:11:LYS:NZ	2:F:11:LYS:CB	2.73	0.44
2:F:235:ILE:HA	2:F:238:ILE:HD13	1.96	0.44
2:F:238:ILE:CG1	2:F:252:PHE:CZ	3.00	0.44
1:B:72:TYR:HE2	1:B:206:SER:N	2.15	0.44
1:B:211:TYR:CE1	1:B:212:PRO:O	2.70	0.44
1:B:278:ILE:HD11	1:B:358:LEU:HG	1.99	0.44
1:B:572:SER:O	1:B:575:ILE:N	2.46	0.44
2:C:10:TRP:CD1	2:C:10:TRP:O	2.70	0.44
2:C:190:TYR:O	2:C:193:ILE:N	2.50	0.44
2:C:215:TRP:CA	2:C:218:ILE:CD1	2.82	0.44
2:D:10:TRP:O	2:D:10:TRP:CD1	2.70	0.44
2:D:12:SER:OG	2:D:14:ASP:CB	2.65	0.44
2:D:128:PHE:CD1	2:D:128:PHE:O	2.70	0.44
2:D:213:GLU:O	2:D:216:THR:CB	2.65	0.44
1:A:81:LEU:HD21	1:A:85:GLN:O	2.17	0.44
1:A:283:LEU:CD2	1:A:339:VAL:HG13	2.45	0.44
1:A:385:VAL:HG12	1:A:403:THR:HG22	1.94	0.44
1:A:401:LYS:HA	1:A:401:LYS:HZ1	1.78	0.44
1:E:299:SER:HA	1:E:317:SER:HB2	1.89	0.44
2:F:272:ILE:HG23	2:F:315:GLN:HE22	1.81	0.44
2:F:345:LYS:HA	2:F:345:LYS:HD3	1.77	0.44
1:B:74:HIS:ND1	1:B:75:ASP:N	2.65	0.44
1:B:122:SER:OG	1:B:182:LEU:C	2.52	0.44
1:B:225:HIS:HB2	1:B:227:ASN:HD21	1.81	0.44
1:B:418:ARG:CB	1:B:420:SER:C	2.86	0.44
1:B:553:LYS:HA	1:B:553:LYS:HD2	1.69	0.44
2:C:48:GLU:CD	2:D:80:LEU:HD23	2.38	0.44
2:C:89:SER:O	2:C:93:ILE:CD1	2.66	0.44
2:C:340:VAL:HG22	2:C:367:ILE:HG22	1.98	0.44
2:C:411:PRO:HG2	2:C:412:ASN:H	1.82	0.44
2:D:256:MET:O	2:D:259:PHE:CD2	2.70	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:310:TRP:O	2:D:314:GLU:N	2.30	0.44
1:A:63:PHE:CD2	1:A:63:PHE:O	2.70	0.44
1:A:71:ILE:HD11	1:A:78:ILE:CB	2.42	0.44
1:A:309:HIS:ND1	1:A:313:THR:OG1	2.50	0.44
1:A:327:SER:HB3	3:A:718:HOH:O	2.18	0.44
1:E:305:GLN:NE2	1:E:313:THR:OG1	2.51	0.44
1:B:94:VAL:CG2	1:B:165:LEU:HD13	2.47	0.44
1:B:455:SER:CB	2:D:405:LYS:N	2.80	0.44
2:C:139:SER:O	2:C:142:MET:HB3	2.16	0.44
1:A:479:GLU:H	1:A:479:GLU:HG3	1.46	0.44
1:E:210:PHE:O	1:E:211:TYR:CD2	2.70	0.44
1:E:344:ARG:HH21	1:E:379:ARG:HH22	1.63	0.44
1:E:435:LYS:HA	1:E:441:PHE:HA	1.98	0.44
1:E:528:LEU:HD21	1:E:569:GLU:CD	2.37	0.44
2:F:18:TYR:CD2	2:F:18:TYR:O	2.70	0.44
2:F:214:TYR:CD2	2:F:214:TYR:O	2.70	0.44
2:F:308:ILE:O	2:F:311:LEU:HB2	2.18	0.44
2:F:311:LEU:C	2:F:315:GLN:HG3	2.19	0.44
1:B:269:LEU:HA	1:B:269:LEU:HD23	1.74	0.44
2:D:58:HIS:CD2	2:D:62:SER:OG	2.70	0.44
2:D:63:THR:HA	2:D:66:LEU:HD13	1.98	0.44
1:A:331:GLN:CB	1:A:334:ARG:CB	2.92	0.44
1:E:218:ASN:O	1:E:219:THR:OG1	2.29	0.44
1:E:524:PHE:CD2	1:E:525:ARG:N	2.85	0.44
2:F:31:ILE:HG12	2:F:32:SER:N	2.33	0.44
2:F:312:ALA:CB	2:F:342:LEU:CD2	2.91	0.44
1:B:516:PHE:CD2	1:B:516:PHE:O	2.70	0.44
1:B:543:ILE:CD1	1:B:546:PHE:CD1	2.85	0.44
1:B:546:PHE:CD1	1:B:546:PHE:N	2.86	0.44
1:B:586:ILE:HG22	2:D:6:ARG:O	2.16	0.44
2:D:150:ALA:O	2:D:153:TRP:HB3	2.18	0.44
2:D:268:PRO:HA	2:D:271:LEU:HD12	1.94	0.44
1:A:162:LEU:HD23	1:A:210:PHE:CD2	2.51	0.44
1:A:335:TYR:O	1:A:335:TYR:CD1	2.70	0.44
1:A:401:LYS:HZ2	1:A:401:LYS:CA	2.27	0.44
1:A:504:ASN:C	1:A:506:GLY:HA3	2.38	0.44
1:E:177:PRO:O	1:E:180:LYS:HB3	2.18	0.44
1:E:280:PHE:O	1:E:298:LEU:HA	2.18	0.44
1:E:403:THR:O	1:E:404:ASN:ND2	2.50	0.44
2:F:256:MET:O	2:F:260:ILE:HG13	2.16	0.44
2:F:272:ILE:HG12	2:F:315:GLN:HE22	1.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:107:VAL:HG23	1:B:107:VAL:O	2.18	0.44
1:B:120:ASN:OD1	1:B:120:ASN:N	2.41	0.44
1:B:130:GLN:HB3	1:B:132:THR:OG1	2.18	0.44
2:C:9:PRO:HB3	2:C:54:THR:CG2	2.44	0.44
2:C:46:LEU:O	2:C:50:TYR:CD2	2.70	0.44
2:C:49:MET:CE	1:A:481:SER:HB2	2.46	0.44
2:C:182:GLU:C	2:C:186:LEU:HG	2.35	0.44
2:C:314:GLU:O	2:C:318:ARG:NH1	2.51	0.44
2:D:85:ARG:HB2	2:D:137:LEU:HD12	2.00	0.44
1:A:78:ILE:HD12	1:A:161:LYS:HB2	1.55	0.44
1:A:95:LEU:CG	1:A:116:MET:HE2	2.41	0.44
1:A:255:SER:O	1:A:410:GLY:HA2	2.17	0.44
1:A:568:TRP:CE3	1:A:568:TRP:N	2.82	0.44
1:E:75:ASP:O	1:E:208:TYR:CE1	2.71	0.44
1:E:178:LEU:C	1:E:178:LEU:CD2	2.85	0.44
1:E:433:PHE:CZ	1:E:526:LEU:O	2.69	0.44
1:E:452:ILE:HD12	1:E:543:ILE:CG2	2.44	0.44
2:F:22:LEU:HG	2:F:39:GLN:CB	2.43	0.44
1:B:107:VAL:HG23	1:B:109:TYR:HE2	1.82	0.44
1:B:380:VAL:HG12	1:B:382:PRO:CD	2.48	0.44
1:B:511:LEU:C	1:B:511:LEU:CD2	2.86	0.44
2:D:89:SER:CB	2:D:128:PHE:CZ	3.01	0.44
2:D:183:LEU:CD2	2:D:224:HIS:CG	2.98	0.44
1:A:210:PHE:CD1	1:A:210:PHE:O	2.70	0.44
1:A:368:TYR:HD1	1:A:372:LEU:CG	2.27	0.44
1:E:449:SER:O	1:E:542:TYR:OH	2.24	0.44
1:E:598:TRP:HD1	1:E:599:LYS:N	2.13	0.44
2:F:82:ASP:O	2:F:86:LEU:CG	2.66	0.44
1:B:111:SER:CB	1:B:142:ASN:N	2.78	0.44
1:B:293:THR:CG2	1:B:425:ARG:HH11	2.30	0.44
1:B:310:LEU:HB2	1:B:312:LEU:HG	1.99	0.44
1:B:388:LEU:CD1	1:B:406:ILE:CD1	2.96	0.44
1:B:570:ILE:O	1:B:575:ILE:CD1	2.66	0.44
2:D:90:MET:HA	2:D:90:MET:CE	2.44	0.44
2:D:196:GLN:O	2:D:197:ASN:HB3	2.18	0.44
1:A:283:LEU:O	1:A:285:PRO:HD3	2.18	0.44
1:A:408:LEU:CD2	1:A:409:GLN:N	2.74	0.44
1:E:128:LEU:C	1:E:129:ILE:CD1	2.86	0.44
1:E:487:VAL:HG23	1:E:527:ALA:HB3	1.95	0.44
2:F:11:LYS:CA	2:F:15:GLU:OE1	2.66	0.44
1:B:82:LYS:CA	1:B:156:TYR:CB	2.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:240:SER:HA	1:B:274:GLN:CG	2.39	0.43
1:B:284:ASP:CG	1:B:287:GLN:H	2.21	0.43
1:B:426:LEU:O	1:B:430:MET:N	2.41	0.43
2:C:18:TYR:C	2:C:18:TYR:CD2	2.91	0.43
1:A:169:LEU:HD21	1:A:312:LEU:HD13	1.99	0.43
1:A:206:SER:CB	1:A:208:TYR:HE2	2.31	0.43
1:E:90:LYS:HE3	1:E:122:SER:HB3	2.00	0.43
1:E:233:LYS:O	1:E:233:LYS:HD2	2.18	0.43
1:E:335:TYR:O	1:E:335:TYR:CD1	2.70	0.43
2:F:97:ASN:HB3	2:F:101:ASP:OD1	2.18	0.43
2:F:303:CYS:SG	2:F:304:ALA:N	2.91	0.43
1:B:228:TRP:HH2	1:B:410:GLY:H	1.66	0.43
1:B:333:THR:O	1:B:337:LEU:HB3	2.18	0.43
2:C:305:GLN:CA	2:C:308:ILE:HG13	2.43	0.43
2:C:363:LYS:O	2:C:367:ILE:HG12	2.18	0.43
2:D:353:ASP:N	2:D:357:LYS:CB	2.81	0.43
1:A:165:LEU:CD1	1:A:165:LEU:C	2.85	0.43
1:A:245:ILE:N	1:A:245:ILE:CD1	2.73	0.43
1:E:138:SER:HA	1:E:140:LEU:N	2.33	0.43
1:E:310:LEU:H	1:E:310:LEU:CD2	2.29	0.43
1:E:370:LEU:CD1	1:E:370:LEU:C	2.85	0.43
2:F:255:MET:SD	2:F:255:MET:N	2.91	0.43
1:B:456:TYR:CE1	1:B:537:LYS:HD2	2.53	0.43
1:B:457:GLY:C	1:B:459:SER:N	2.69	0.43
1:B:598:TRP:H	2:D:58:HIS:HB2	1.83	0.43
2:C:137:LEU:N	2:D:94:ARG:HH22	2.16	0.43
2:D:247:HIS:ND1	2:D:247:HIS:N	2.64	0.43
1:A:63:PHE:O	1:A:64:SER:C	2.57	0.43
1:A:280:PHE:HA	1:A:358:LEU:HB3	1.99	0.43
1:A:430:MET:CG	1:A:566:PRO:CB	2.95	0.43
1:A:530:HIS:CD2	1:A:531:SER:OG	2.70	0.43
1:E:79:PHE:CD1	1:E:79:PHE:N	2.85	0.43
1:E:124:SER:HB2	1:E:308:ASN:ND2	2.34	0.43
1:E:130:GLN:HB3	1:E:132:THR:OG1	2.18	0.43
1:E:164:ASN:OD1	1:E:165:LEU:N	2.51	0.43
1:E:340:GLU:CD	1:E:379:ARG:NH1	2.70	0.43
1:E:454:VAL:CG2	1:E:539:MET:CG	2.96	0.43
2:F:10:TRP:HD1	2:F:12:SER:O	2.01	0.43
2:F:116:ALA:HA	2:F:119:ILE:HD12	1.95	0.43
2:F:153:TRP:NE1	2:F:157:HIS:CD2	2.85	0.43
1:B:284:ASP:OD1	1:B:286:GLY:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:369:ARG:HA	2:C:372:THR:HG22	1.99	0.43
1:A:184:TRP:O	1:A:184:TRP:CG	2.71	0.43
1:E:465:LEU:HD13	1:E:482:ILE:HG21	2.00	0.43
1:E:489:ILE:HD11	1:E:527:ALA:CB	2.32	0.43
2:F:103:ASN:CG	2:F:115:LEU:HD21	2.38	0.43
1:B:282:ASP:HB3	1:B:297:SER:OG	2.18	0.43
1:B:452:ILE:HB	1:B:541:LEU:HD12	2.00	0.43
1:B:454:VAL:HG13	2:D:407:PHE:HD1	1.73	0.43
2:C:13:SER:O	2:C:13:SER:OG	2.31	0.43
2:D:13:SER:O	2:D:16:VAL:CG2	2.60	0.43
2:D:149:ARG:HB3	2:D:149:ARG:CZ	2.48	0.43
1:A:175:VAL:CG2	1:A:176:CYS:N	2.82	0.43
1:A:232:ILE:CG1	1:A:264:LEU:CB	2.94	0.43
1:A:368:TYR:HD1	1:A:372:LEU:HD11	1.84	0.43
1:E:150:HIS:CA	1:E:151:LEU:C	2.87	0.43
1:E:205:PHE:O	1:E:206:SER:OG	2.28	0.43
1:E:230:ASP:HA	1:E:233:LYS:HB3	2.00	0.43
1:E:280:PHE:O	1:E:299:SER:N	2.51	0.43
1:E:490:PHE:HB2	1:E:557:ILE:O	2.18	0.43
2:F:111:PRO:HG3	2:F:113:HIS:CE1	2.42	0.43
1:B:126:ILE:N	1:B:126:ILE:CD1	2.73	0.43
1:B:182:LEU:HB3	1:B:183:PHE:CE2	2.52	0.43
1:B:546:PHE:N	1:B:546:PHE:HD1	2.16	0.43
2:C:15:GLU:O	2:C:18:TYR:CB	2.67	0.43
2:D:74:GLU:OE2	2:D:144:LYS:HE3	2.19	0.43
1:A:162:LEU:CD2	1:A:162:LEU:C	2.86	0.43
1:A:283:LEU:HD23	1:A:296:ILE:HG23	2.00	0.43
1:A:298:LEU:CD2	1:A:319:GLN:OE1	2.67	0.43
1:A:364:TRP:CE3	1:A:368:TYR:HB3	2.47	0.43
1:A:376:LEU:C	1:A:376:LEU:CD1	2.85	0.43
1:A:508:LEU:CD1	1:A:509:PRO:CD	2.85	0.43
1:A:531:SER:HG	1:A:540:ASN:ND2	2.10	0.43
1:E:341:GLN:HG3	1:E:342:LEU:H	1.81	0.43
1:E:365:ILE:HD12	1:E:366:LYS:N	2.33	0.43
1:B:103:ASP:HA	1:B:107:VAL:C	2.39	0.43
1:B:239:TYR:OH	1:B:276:LEU:CD2	2.65	0.43
1:B:261:LEU:O	1:B:265:VAL:HG23	2.18	0.43
2:C:308:ILE:O	2:C:312:ALA:HB2	2.18	0.43
2:C:409:SER:HB3	1:A:450:PRO:CG	2.47	0.43
2:D:23:PHE:O	2:D:24:PHE:HD1	2.01	0.43
1:A:573:ASN:C	1:A:576:VAL:HG22	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:596:LYS:NZ	1:A:596:LYS:CB	2.81	0.43
2:F:120:ASP:OD2	2:F:157:HIS:NE2	2.51	0.43
2:F:256:MET:HA	2:F:259:PHE:CB	2.25	0.43
1:B:251:GLY:O	1:B:363:GLY:O	2.36	0.43
1:B:485:THR:HB	1:B:560:ARG:HE	1.84	0.43
2:C:258:HIS:CD2	2:C:258:HIS:O	2.72	0.43
2:C:416:LYS:HB3	2:C:416:LYS:NZ	2.31	0.43
1:A:172:ILE:HD12	1:A:183:PHE:CD2	2.54	0.43
1:A:224:LYS:HB3	1:A:228:TRP:CB	2.48	0.43
1:A:340:GLU:O	1:A:343:VAL:N	2.52	0.43
1:A:520:SER:O	1:A:521:THR:HG22	2.16	0.43
1:A:565:LEU:CD2	1:A:570:ILE:HG13	2.40	0.43
1:E:86:ASN:C	1:E:87:LEU:HD23	2.37	0.43
1:E:109:TYR:CD1	1:E:271:PRO:HD3	2.51	0.43
1:E:248:ILE:CG1	1:E:382:PRO:CB	2.97	0.43
1:E:283:LEU:HD11	1:E:339:VAL:CG1	2.47	0.43
1:E:398:ASP:OD2	1:E:399:ILE:HG22	2.18	0.43
1:E:586:ILE:CB	2:F:6:ARG:O	2.66	0.43
2:F:198:ILE:N	2:F:198:ILE:HD12	2.32	0.43
2:F:233:VAL:O	2:F:236:GLU:HG3	2.18	0.43
2:F:342:LEU:O	2:F:346:LEU:HG	2.18	0.43
1:B:170:GLU:OE1	1:B:183:PHE:C	2.57	0.43
1:B:278:ILE:HG13	1:B:358:LEU:HD23	2.00	0.43
1:B:583:LEU:HD21	2:D:13:SER:OG	2.19	0.43
2:C:249:ARG:C	2:C:307:TRP:HH2	2.22	0.43
2:D:11:LYS:HG3	2:D:12:SER:H	1.84	0.43
2:D:235:ILE:HA	2:D:238:ILE:HG22	2.00	0.43
1:A:72:TYR:OH	1:A:204:ALA:O	2.23	0.43
1:A:224:LYS:O	1:A:225:HIS:C	2.56	0.43
1:A:248:ILE:HD12	1:A:376:LEU:HD11	2.01	0.43
1:A:466:THR:CA	1:A:511:LEU:O	2.66	0.43
1:A:573:ASN:O	1:A:576:VAL:HG23	2.18	0.43
1:E:74:HIS:NE2	1:E:75:ASP:OD2	2.52	0.43
1:E:171:SER:HB3	1:E:443:PHE:HB2	2.01	0.43
2:F:46:LEU:HD23	2:F:49:MET:HE1	2.01	0.43
2:F:328:ILE:CA	2:F:331:LEU:HD22	2.48	0.43
1:B:114:GLU:H	1:B:114:GLU:HG2	1.52	0.43
1:B:329:LYS:HG2	1:B:330:ASP:N	2.33	0.43
1:B:390:SER:HB3	1:B:405:LEU:HD11	2.01	0.43
1:B:432:TYR:CE2	1:B:526:LEU:HD12	2.53	0.43
1:B:510:LEU:HD23	1:B:511:LEU:C	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:575:ILE:HG13	1:B:575:ILE:H	1.60	0.43
2:D:45:SER:O	2:D:49:MET:HB2	2.18	0.43
1:A:236:THR:OG1	1:A:237:GLU:OE1	2.31	0.43
1:A:482:ILE:HD13	1:A:532:ILE:HG21	1.95	0.43
1:E:176:CYS:HB2	1:E:568:TRP:CE2	2.54	0.43
1:E:323:VAL:CA	1:E:334:ARG:NH1	2.81	0.43
1:E:377:ILE:O	1:E:382:PRO:HD2	2.18	0.43
1:E:399:ILE:HA	1:E:400:PRO:HA	1.52	0.43
1:E:511:LEU:HD23	1:E:516:PHE:HB2	2.01	0.43
2:F:258:HIS:C	2:F:258:HIS:ND1	2.73	0.43
1:B:118:PHE:HE1	1:B:306:HIS:CB	1.74	0.42
1:B:489:ILE:HA	1:B:557:ILE:O	2.19	0.42
2:C:65:HIS:CB	2:C:94:ARG:HH21	2.29	0.42
2:C:257:ASN:HA	2:C:260:ILE:HG12	2.00	0.42
2:D:212:LYS:HE3	2:D:212:LYS:HB3	1.79	0.42
1:A:451:PRO:O	1:A:541:LEU:C	2.44	0.42
1:E:233:LYS:NZ	1:E:237:GLU:CB	2.73	0.42
1:E:264:LEU:HD22	1:E:268:MET:HG3	2.01	0.42
2:F:235:ILE:HD11	2:F:274:SER:OG	2.18	0.42
1:B:376:LEU:O	1:B:380:VAL:HG23	2.19	0.42
2:D:37:TYR:CD1	2:D:71:MET:SD	3.11	0.42
2:D:62:SER:O	2:D:66:LEU:CG	2.57	0.42
1:A:279:ASN:HB3	1:A:357:LEU:HA	2.00	0.42
1:A:385:VAL:HG11	1:A:403:THR:HG21	2.00	0.42
1:A:467:HIS:CE1	1:A:560:ARG:HB3	2.54	0.42
1:E:95:LEU:HD23	1:E:95:LEU:C	2.38	0.42
1:B:81:LEU:HD22	1:B:160:ILE:CD1	2.27	0.42
1:B:328:PRO:CG	1:B:335:TYR:HE2	2.32	0.42
1:B:593:SER:HA	1:B:594:LEU:HA	1.52	0.42
2:C:177:GLU:CD	2:C:177:GLU:N	2.73	0.42
2:C:366:LEU:O	2:C:370:LEU:HG	2.19	0.42
2:C:410:HIS:CB	1:A:453:GLN:OE1	2.68	0.42
2:D:309:ARG:O	2:D:312:ALA:HB3	2.20	0.42
2:D:320:ASP:O	2:D:324:VAL:N	2.37	0.42
1:A:180:LYS:O	1:A:181:ASN:HB2	2.19	0.42
1:A:213:ILE:CD1	1:A:219:THR:CB	2.98	0.42
1:E:387:TYR:O	1:E:405:LEU:HA	2.18	0.42
2:F:247:HIS:H	2:F:247:HIS:HD2	1.59	0.42
2:F:304:ALA:O	2:F:308:ILE:HG13	2.20	0.42
2:F:338:LEU:HD11	2:F:339:ASN:ND2	2.34	0.42
2:F:365:THR:O	2:F:369:ARG:CA	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:162:LEU:HD23	1:B:162:LEU:HA	1.81	0.42
1:B:232:ILE:HG21	1:B:263:LEU:CD1	2.49	0.42
1:B:423:GLN:NE2	1:B:423:GLN:C	2.73	0.42
2:C:23:PHE:HD1	2:C:23:PHE:HA	1.73	0.42
2:C:151:ILE:CG2	2:C:152:ASP:N	2.83	0.42
2:C:410:HIS:CB	1:A:451:PRO:CD	2.95	0.42
2:D:60:LEU:O	2:D:60:LEU:HD22	2.18	0.42
1:A:181:ASN:CG	1:A:187:ASP:C	2.76	0.42
1:A:248:ILE:O	1:A:249:VAL:HG22	2.18	0.42
1:A:305:GLN:HG3	1:A:309:HIS:CD2	2.55	0.42
1:A:322:TYR:CB	1:A:523:PHE:CZ	3.00	0.42
1:E:216:PRO:HD3	3:E:745:HOH:O	2.19	0.42
1:E:300:LYS:HB3	1:E:300:LYS:HE2	1.59	0.42
1:E:370:LEU:O	1:E:374:ARG:N	2.45	0.42
1:E:444:GLN:NE2	1:E:444:GLN:C	2.73	0.42
2:F:16:VAL:O	2:F:20:LYS:N	2.38	0.42
2:F:249:ARG:O	2:F:252:PHE:HB2	2.19	0.42
2:D:257:ASN:ND2	2:D:257:ASN:C	2.73	0.42
1:A:98:GLN:O	1:A:142:ASN:CA	2.67	0.42
1:A:239:TYR:O	1:A:239:TYR:HD1	2.02	0.42
1:A:446:LEU:HD13	1:A:569:GLU:HG3	2.01	0.42
1:E:293:THR:OG1	1:E:429:THR:HG23	2.19	0.42
1:E:466:THR:CG2	1:E:516:PHE:HD2	2.21	0.42
2:F:43:ALA:HA	2:F:46:LEU:HD12	2.01	0.42
2:F:247:HIS:O	2:F:248:LEU:C	2.57	0.42
1:B:437:ASP:HB3	1:B:440:LYS:HZ2	1.84	0.42
2:C:101:ASP:O	2:C:103:ASN:N	2.48	0.42
2:D:135:ASP:OD1	2:D:135:ASP:N	2.51	0.42
2:D:268:PRO:O	2:D:272:ILE:HD11	2.19	0.42
2:D:331:LEU:C	2:D:343:LEU:CD2	2.86	0.42
1:A:296:ILE:HG21	1:A:342:LEU:HD23	2.02	0.42
1:E:93:PHE:HB2	1:E:210:PHE:CE1	2.55	0.42
1:E:232:ILE:HD11	1:E:264:LEU:HD22	1.84	0.42
1:E:324:GLY:O	1:E:325:PHE:CD1	2.72	0.42
1:E:361:THR:HA	1:E:362:PRO:HD3	1.83	0.42
1:E:512:PRO:HG2	1:E:515:GLU:HB2	2.01	0.42
2:F:23:PHE:CE2	2:F:43:ALA:HB3	2.48	0.42
1:B:103:ASP:CB	1:B:108:ILE:CD1	2.98	0.42
1:B:227:ASN:OD1	1:B:228:TRP:N	2.52	0.42
1:B:368:TYR:HE1	1:B:372:LEU:HD11	1.84	0.42
1:B:486:ILE:HG13	1:B:486:ILE:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:15:GLU:C	2:C:18:TYR:H	2.22	0.42
2:C:146:CYS:O	2:C:150:ALA:N	2.43	0.42
2:C:229:ASN:ND2	2:C:229:ASN:C	2.73	0.42
2:C:309:ARG:O	2:C:313:ILE:HG13	2.19	0.42
2:D:308:ILE:HA	2:D:311:LEU:CD1	2.44	0.42
2:D:331:LEU:HD12	2:D:360:ILE:HG23	2.01	0.42
1:A:308:ASN:HD22	1:A:310:LEU:HD11	1.85	0.42
1:A:512:PRO:HG2	1:A:515:GLU:CB	2.50	0.42
1:A:525:ARG:HB3	1:A:525:ARG:NH2	2.30	0.42
1:E:248:ILE:HG13	1:E:384:HIS:O	2.20	0.42
1:E:269:LEU:HD11	1:E:278:ILE:HG21	1.99	0.42
1:B:242:ASP:HA	1:B:243:GLN:HA	1.74	0.42
1:B:368:TYR:O	1:B:371:GLU:HB3	2.20	0.42
1:B:380:VAL:CG1	1:B:382:PRO:CD	2.94	0.42
1:B:465:LEU:CD2	1:B:465:LEU:C	2.85	0.42
2:C:125:PHE:CZ	2:C:150:ALA:N	2.83	0.42
2:C:177:GLU:CD	2:C:180:ILE:HG21	2.39	0.42
2:C:227:MET:CG	2:C:230:PHE:CB	2.86	0.42
2:D:276:LEU:HD23	2:D:276:LEU:N	2.33	0.42
1:A:245:ILE:N	1:A:356:SER:OG	2.53	0.42
1:A:368:TYR:HA	1:A:371:GLU:HB3	2.00	0.42
1:E:101:ALA:CB	1:E:133:GLN:CB	2.98	0.42
1:E:169:LEU:HD13	1:E:183:PHE:CE2	2.54	0.42
1:E:299:SER:HA	1:E:317:SER:CB	2.34	0.42
2:F:224:HIS:O	2:F:230:PHE:CB	2.67	0.42
1:B:64:SER:CB	1:B:86:ASN:O	2.66	0.42
1:B:368:TYR:CE1	1:B:372:LEU:HD11	2.55	0.42
1:B:468:LEU:HD12	1:B:561:GLY:CA	2.14	0.42
2:C:128:PHE:CE1	2:C:143:CYS:HA	2.55	0.42
1:E:138:SER:CA	1:E:140:LEU:N	2.82	0.42
1:E:397:ILE:HD12	1:E:397:ILE:H	1.80	0.42
1:B:172:ILE:HG13	1:B:173:GLY:N	2.34	0.42
1:B:250:ILE:HG22	1:B:365:ILE:HG13	2.02	0.42
1:B:327:SER:CB	1:B:329:LYS:HZ3	2.33	0.42
1:B:480:ARG:HG2	1:B:480:ARG:O	2.20	0.42
1:B:584:PRO:HG2	1:B:585:TYR:H	1.83	0.42
2:C:85:ARG:HD2	2:C:138:PRO:O	2.20	0.42
2:D:89:SER:CB	2:D:128:PHE:HZ	2.32	0.42
2:D:256:MET:HA	2:D:259:PHE:HD2	1.84	0.42
1:A:478:LEU:HD11	1:A:510:LEU:HB2	2.01	0.42
1:E:381:LYS:HA	1:E:401:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:119:ILE:O	1:B:119:ILE:HG22	2.21	0.41
1:B:155:GLY:C	3:B:708:HOH:O	2.58	0.41
1:B:530:HIS:ND1	1:B:530:HIS:C	2.73	0.41
2:C:86:LEU:CD2	2:D:91:THR:OG1	2.66	0.41
2:C:418:PHE:CE1	1:A:569:GLU:OE2	2.68	0.41
2:D:190:TYR:O	2:D:190:TYR:CD1	2.70	0.41
1:A:490:PHE:CD1	1:A:523:PHE:CD1	2.98	0.41
1:E:95:LEU:CD2	1:E:116:MET:O	2.68	0.41
1:E:164:ASN:CA	1:E:210:PHE:CE1	2.98	0.41
1:E:377:ILE:HG22	1:E:401:LYS:HG3	2.01	0.41
1:E:403:THR:C	1:E:404:ASN:ND2	2.73	0.41
2:F:67:PHE:CE1	2:F:151:ILE:HD13	2.55	0.41
2:C:37:TYR:OH	2:C:74:GLU:OE1	2.36	0.41
2:C:96:VAL:CA	2:C:99:LEU:CD1	2.86	0.41
2:C:128:PHE:CE2	2:C:138:PRO:CG	2.83	0.41
2:C:272:ILE:HD12	2:C:327:MET:HE1	2.01	0.41
2:D:343:LEU:HA	2:D:346:LEU:HB2	2.03	0.41
1:A:169:LEU:O	1:A:169:LEU:HD13	2.21	0.41
1:A:401:LYS:O	1:A:403:THR:OG1	2.38	0.41
1:A:473:ILE:HG22	1:A:474:GLY:O	2.20	0.41
1:E:365:ILE:HD12	1:E:366:LYS:CB	2.47	0.41
1:E:567:ILE:HG23	1:E:571:ALA:HB3	2.00	0.41
2:F:23:PHE:CD2	2:F:43:ALA:CB	3.00	0.41
1:B:111:SER:OG	1:B:141:GLU:O	2.37	0.41
1:B:131:ALA:O	1:B:134:VAL:CG2	2.68	0.41
1:B:257:LYS:HA	1:B:260:PHE:HB3	2.02	0.41
1:B:435:LYS:HB3	1:B:441:PHE:CE1	2.55	0.41
1:B:468:LEU:O	1:B:469:LYS:HB3	2.21	0.41
2:C:190:TYR:O	2:C:194:ARG:N	2.48	0.41
2:D:22:LEU:N	2:D:22:LEU:CD2	2.73	0.41
2:D:50:TYR:CD1	2:D:53:ARG:NH2	2.88	0.41
2:D:96:VAL:HG13	2:D:121:LEU:CD2	2.50	0.41
1:A:508:LEU:HA	1:A:508:LEU:HD13	1.77	0.41
1:E:107:VAL:HG23	1:E:109:TYR:CE2	2.54	0.41
1:E:238:LEU:O	1:E:238:LEU:HD12	2.20	0.41
1:E:364:TRP:CH2	1:E:368:TYR:CB	2.99	0.41
2:F:141:GLU:HA	2:F:144:LYS:CG	2.41	0.41
2:F:256:MET:C	2:F:259:PHE:HB3	2.39	0.41
2:F:308:ILE:HA	2:F:311:LEU:HD12	2.02	0.41
1:B:530:HIS:HA	2:D:418:PHE:CD1	2.55	0.41
2:D:125:PHE:CE1	2:D:149:ARG:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:64:SER:HB3	1:A:85:GLN:CB	2.50	0.41
1:A:309:HIS:CD2	1:A:309:HIS:H	2.38	0.41
1:E:585:TYR:HA	2:F:8:THR:O	2.20	0.41
2:F:103:ASN:CB	2:F:115:LEU:HD21	2.51	0.41
2:F:353:ASP:CB	2:F:354:PRO:HD3	2.12	0.41
1:B:211:TYR:CD1	1:B:211:TYR:C	2.94	0.41
1:B:293:THR:HG21	1:B:425:ARG:NH1	2.35	0.41
1:B:293:THR:HG22	1:B:294:ASP:N	2.36	0.41
1:B:586:ILE:HD12	2:D:7:LEU:HD13	2.01	0.41
2:C:138:PRO:HB3	2:C:142:MET:HG2	2.03	0.41
2:C:414:THR:O	2:C:416:LYS:HD3	2.10	0.41
2:C:417:PRO:CB	1:A:584:PRO:HG2	2.43	0.41
2:D:10:TRP:O	2:D:12:SER:O	2.39	0.41
2:D:25:PRO:HD2	2:D:28:ARG:HD3	2.02	0.41
1:A:235:LEU:CD1	1:A:384:HIS:CD2	3.04	0.41
1:A:483:GLU:O	1:A:485:THR:HG23	2.20	0.41
1:E:218:ASN:ND2	1:E:218:ASN:N	2.68	0.41
1:E:233:LYS:NZ	1:E:237:GLU:HB2	2.30	0.41
1:E:341:GLN:O	1:E:344:ARG:HB2	2.20	0.41
1:E:365:ILE:HD13	1:E:393:LEU:CD1	2.50	0.41
1:E:439:PHE:N	1:E:439:PHE:CD1	2.88	0.41
1:E:468:LEU:HA	1:E:513:TYR:CD1	2.55	0.41
2:F:122:PRO:HG2	2:F:125:PHE:CD2	2.44	0.41
2:F:214:TYR:C	2:F:214:TYR:HD2	2.22	0.41
1:B:250:ILE:CG2	1:B:365:ILE:HG13	2.49	0.41
1:B:457:GLY:O	1:B:463:SER:HA	2.20	0.41
2:C:23:PHE:CE2	2:C:63:THR:HB	2.56	0.41
2:C:93:ILE:HD13	2:D:90:MET:HE1	2.02	0.41
2:C:254:PRO:O	2:C:257:ASN:ND2	2.54	0.41
2:D:255:MET:SD	2:D:255:MET:O	2.78	0.41
1:A:227:ASN:CG	1:A:228:TRP:N	2.73	0.41
1:A:248:ILE:CD1	1:A:376:LEU:HD11	2.51	0.41
1:E:107:VAL:HG22	1:E:266:GLN:NE2	2.33	0.41
1:E:468:LEU:HA	1:E:513:TYR:HD1	1.85	0.41
1:E:587:THR:O	1:E:587:THR:OG1	2.33	0.41
2:F:237:ARG:C	2:F:237:ARG:CD	2.88	0.41
2:F:262:LEU:CD1	2:F:262:LEU:C	2.85	0.41
1:B:96:GLU:O	1:B:161:LYS:HB3	2.20	0.41
1:B:161:LYS:HZ1	1:B:163:THR:HG1	1.60	0.41
1:B:399:ILE:HA	1:B:400:PRO:HA	1.71	0.41
1:B:434:HIS:O	1:B:441:PHE:HA	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:516:PHE:HE2	1:B:521:THR:HG21	1.86	0.41
1:B:534:GLN:HE21	1:B:534:GLN:HB2	1.60	0.41
1:A:160:ILE:C	1:A:160:ILE:CD1	2.86	0.41
1:A:529:VAL:CG1	1:A:532:ILE:CG2	2.98	0.41
1:E:92:GLN:NE2	1:E:92:GLN:N	2.68	0.41
1:E:227:ASN:ND2	1:E:227:ASN:C	2.73	0.41
1:E:451:PRO:CG	2:F:413:TRP:CD2	3.01	0.41
2:F:89:SER:CB	2:F:137:LEU:HD11	2.50	0.41
2:F:117:LYS:C	2:F:117:LYS:CD	2.87	0.41
2:F:364:LEU:HD22	2:F:368:GLN:CB	2.51	0.41
1:B:257:LYS:O	1:B:258:SER:C	2.59	0.41
1:B:318:THR:CG2	1:B:319:GLN:NE2	2.84	0.41
1:B:337:LEU:O	1:B:337:LEU:HD12	2.21	0.41
1:B:441:PHE:N	1:B:441:PHE:HD2	2.17	0.41
1:B:583:LEU:HG	1:B:587:THR:HA	2.02	0.41
2:C:49:MET:HE2	2:C:49:MET:HB2	1.76	0.41
2:C:181:LYS:O	2:C:185:ASP:CB	2.68	0.41
2:C:279:ASN:ND2	2:C:308:ILE:HD11	2.21	0.41
2:D:150:ALA:O	2:D:153:TRP:N	2.54	0.41
2:D:410:HIS:ND1	2:D:411:PRO:HD2	2.36	0.41
1:A:94:VAL:O	1:A:162:LEU:CA	2.67	0.41
1:A:172:ILE:HD12	1:A:183:PHE:CE2	2.52	0.41
1:A:176:CYS:CB	1:A:179:PHE:CD1	2.93	0.41
1:A:466:THR:HG21	1:A:511:LEU:HD21	2.02	0.41
1:E:77:VAL:C	1:E:78:ILE:HD12	2.41	0.41
1:E:143:LYS:HA	1:E:144:GLU:HA	1.77	0.41
1:E:366:LYS:CD	1:E:367:GLY:N	2.73	0.41
2:F:22:LEU:HD22	2:F:40:TYR:HA	1.77	0.41
2:F:253:GLU:HA	2:F:256:MET:CG	2.50	0.41
1:B:122:SER:N	1:B:182:LEU:HD21	2.36	0.41
1:B:170:GLU:CB	1:B:183:PHE:HB2	2.51	0.41
1:B:173:GLY:HA2	1:B:180:LYS:HB3	2.02	0.41
1:B:238:LEU:HD12	1:B:238:LEU:O	2.20	0.41
1:B:308:ASN:ND2	1:B:308:ASN:C	2.73	0.41
1:B:445:PRO:HD3	1:B:574:GLU:OE1	2.21	0.41
2:C:180:ILE:CG1	2:C:181:LYS:N	2.84	0.41
2:C:271:LEU:CD1	2:C:275:MET:HE3	2.50	0.41
2:C:347:GLN:OE1	2:C:360:ILE:HB	2.21	0.41
2:D:47:VAL:O	2:D:51:SER:CB	2.69	0.41
2:D:58:HIS:CD2	2:D:58:HIS:O	2.74	0.41
2:D:60:LEU:CD2	2:D:159:TRP:CH2	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:149:ARG:NH2	2:D:149:ARG:O	2.53	0.41
1:A:72:TYR:CD2	1:A:208:TYR:OH	2.60	0.41
1:A:104:ILE:CD1	1:A:109:TYR:HD2	2.31	0.41
1:A:172:ILE:HG21	1:A:179:PHE:CD2	2.54	0.41
1:A:224:LYS:HB3	1:A:228:TRP:CE3	2.56	0.41
1:A:261:LEU:HD23	1:A:261:LEU:HA	1.74	0.41
1:A:305:GLN:OE1	1:A:313:THR:CG2	2.69	0.41
1:A:492:VAL:CG1	1:A:557:ILE:HD11	2.46	0.41
1:E:78:ILE:CG2	1:E:98:GLN:NE2	2.83	0.41
1:E:218:ASN:ND2	1:E:218:ASN:H	2.18	0.41
1:E:294:ASP:O	1:E:322:TYR:CD2	2.74	0.41
1:E:309:HIS:HD2	1:E:313:THR:OG1	2.03	0.41
1:E:323:VAL:O	1:E:334:ARG:NH1	2.54	0.41
1:E:346:TYR:O	1:E:350:GLY:HA3	2.20	0.41
1:E:351:GLU:CD	1:E:352:LEU:N	2.73	0.41
1:E:401:LYS:O	1:E:403:THR:HG23	2.20	0.41
1:E:426:LEU:CD2	1:E:564:ASP:OD2	2.68	0.41
2:F:116:ALA:C	2:F:119:ILE:HD12	2.38	0.41
2:F:342:LEU:CD2	2:F:342:LEU:C	2.89	0.41
1:B:128:LEU:HB3	1:B:130:GLN:OE1	2.21	0.41
1:B:164:ASN:HD22	1:B:208:TYR:HD1	1.65	0.41
2:C:88:ALA:HA	2:C:91:THR:OG1	2.21	0.41
2:D:246:GLU:HA	2:D:249:ARG:CB	2.51	0.41
2:D:366:LEU:O	2:D:367:ILE:HB	2.21	0.41
1:A:215:LYS:HA	1:A:216:PRO:HD3	1.97	0.41
1:A:247:VAL:HG12	1:A:248:ILE:N	2.36	0.41
1:A:435:LYS:HG3	1:A:435:LYS:O	2.21	0.41
1:A:489:ILE:O	1:A:524:PHE:N	2.54	0.41
1:A:525:ARG:H	1:A:525:ARG:HG2	1.58	0.41
1:E:80:GLY:HA2	1:E:159:VAL:HA	2.02	0.41
1:E:182:LEU:CB	1:E:183:PHE:CD2	3.00	0.41
2:F:162:VAL:O	2:F:162:VAL:HG12	2.21	0.41
2:F:237:ARG:HD3	2:F:237:ARG:C	2.40	0.41
2:F:248:LEU:CA	2:F:251:LEU:HB2	2.45	0.41
1:B:122:SER:N	1:B:182:LEU:HD23	2.26	0.40
1:B:585:TYR:HB3	1:B:586:ILE:HD13	2.03	0.40
2:C:24:PHE:CZ	2:C:159:TRP:CD1	3.09	0.40
2:D:232:ASN:CG	2:D:274:SER:OG	2.59	0.40
2:D:276:LEU:HD13	2:D:333:LYS:CA	2.45	0.40
1:A:72:TYR:CZ	1:A:206:SER:OG	2.72	0.40
1:A:278:ILE:C	1:A:278:ILE:CD1	2.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:464:ALA:CA	1:A:509:PRO:HB2	2.48	0.40
1:A:596:LYS:HZ3	1:A:596:LYS:CA	2.33	0.40
1:E:78:ILE:HG12	1:E:98:GLN:NE2	2.36	0.40
1:E:100:GLY:O	1:E:111:SER:N	2.54	0.40
2:F:180:ILE:O	2:F:180:ILE:HG22	2.19	0.40
2:F:235:ILE:CD1	2:F:274:SER:OG	2.69	0.40
1:B:103:ASP:N	1:B:108:ILE:HG23	2.37	0.40
1:B:104:ILE:CG2	1:B:128:LEU:C	2.79	0.40
1:B:336:ASN:HD21	1:B:372:LEU:HD21	1.86	0.40
2:C:31:ILE:CD1	2:C:35:GLU:OE2	2.68	0.40
2:C:370:LEU:HA	2:C:373:ASP:CG	2.42	0.40
2:D:81:ASP:OD1	2:D:81:ASP:N	2.46	0.40
2:D:238:ILE:HD12	2:D:238:ILE:C	2.36	0.40
1:A:95:LEU:HD11	1:A:116:MET:HE3	2.03	0.40
1:A:165:LEU:HD12	1:A:167:THR:N	2.00	0.40
1:A:213:ILE:HD11	1:A:219:THR:HG21	1.95	0.40
1:A:382:PRO:CB	1:A:385:VAL:CG2	2.88	0.40
1:E:436:ILE:HG23	1:E:437:ASP:H	1.85	0.40
1:E:466:THR:HA	1:E:511:LEU:O	2.21	0.40
1:E:594:LEU:O	1:E:595:GLU:CB	2.70	0.40
2:F:214:TYR:O	2:F:214:TYR:HD2	2.04	0.40
2:F:312:ALA:CB	2:F:342:LEU:HG	2.52	0.40
1:B:77:VAL:HG12	1:B:79:PHE:CE1	2.53	0.40
1:B:223:ILE:CG1	1:B:224:LYS:N	2.84	0.40
1:B:368:TYR:HE1	1:B:372:LEU:CD2	2.33	0.40
1:B:417:SER:OG	1:B:418:ARG:N	2.54	0.40
2:D:246:GLU:N	2:D:310:TRP:CH2	2.86	0.40
1:A:114:GLU:H	1:A:114:GLU:HG2	1.61	0.40
1:A:454:VAL:HG22	1:A:541:LEU:HD21	2.03	0.40
1:E:366:LYS:CG	1:E:367:GLY:N	2.84	0.40
1:E:588:PHE:CB	2:F:5:PRO:CG	2.99	0.40
1:B:285:PRO:HG3	1:B:323:VAL:HG21	2.04	0.40
1:B:366:LYS:HE3	1:B:367:GLY:H	1.81	0.40
1:A:231:VAL:O	1:A:234:SER:HB3	2.21	0.40
1:E:78:ILE:CG1	1:E:98:GLN:NE2	2.84	0.40
1:E:294:ASP:OD1	1:E:325:PHE:CA	2.69	0.40
1:E:365:ILE:CD1	1:E:365:ILE:C	2.85	0.40
2:F:120:ASP:CB	2:F:157:HIS:HE2	2.33	0.40
2:F:259:PHE:CE1	2:F:267:PHE:CB	3.01	0.40
1:B:92:GLN:NE2	1:B:184:TRP:H	2.17	0.40
1:B:95:LEU:O	1:B:95:LEU:HD23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:223:ILE:O	1:B:224:LYS:HE3	2.20	0.40
1:B:366:LYS:CE	1:B:367:GLY:N	2.73	0.40
1:B:585:TYR:CE1	2:D:11:LYS:HA	2.55	0.40
2:C:258:HIS:HA	2:C:261:HIS:CB	2.52	0.40
2:D:15:GLU:H	2:D:15:GLU:HG3	1.61	0.40
1:A:77:VAL:HG12	1:A:79:PHE:CE2	2.57	0.40
1:A:425:ARG:O	1:A:429:THR:OG1	2.38	0.40
1:A:512:PRO:HG2	1:A:515:GLU:H	1.87	0.40
2:F:119:ILE:HG13	2:F:119:ILE:H	1.57	0.40

All (4) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:195:ARG:NH2	1:E:207:ASP:OD2[1_655]	1.73	0.47
1:B:503:PHE:O	2:F:371:SER:O[5_545]	1.97	0.23
1:E:366:LYS:NZ	2:F:123:SER:CB[3_554]	2.02	0.18
1:E:366:LYS:CE	2:F:123:SER:CB[3_554]	2.17	0.03

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	505/610 (83%)	481 (95%)	23 (5%)	1 (0%)	47 78
1	B	488/610 (80%)	462 (95%)	26 (5%)	0	100 100
1	E	509/610 (83%)	483 (95%)	24 (5%)	2 (0%)	34 67
2	C	326/421 (77%)	315 (97%)	11 (3%)	0	100 100
2	D	309/421 (73%)	296 (96%)	11 (4%)	2 (1%)	25 57
2	F	314/421 (75%)	301 (96%)	12 (4%)	1 (0%)	41 72
All	All	2451/3093 (79%)	2338 (95%)	107 (4%)	6 (0%)	47 78

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	D	101	ASP
1	E	154	PRO
1	A	121	PRO
2	F	244	LYS
1	E	400	PRO
2	D	353	ASP

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	386/561 (69%)	267 (69%)	119 (31%)	0	1
1	B	377/561 (67%)	273 (72%)	104 (28%)	0	1
1	E	383/561 (68%)	292 (76%)	91 (24%)	0	2
2	C	254/388 (66%)	199 (78%)	55 (22%)	1	3
2	D	211/388 (54%)	165 (78%)	46 (22%)	1	3
2	F	254/388 (66%)	205 (81%)	49 (19%)	1	4
All	All	1865/2847 (66%)	1401 (75%)	464 (25%)	0	2

All (464) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	64	SER
1	B	75	ASP
1	B	76	TYR
1	B	79	PHE
1	B	81	LEU
1	B	83	SER
1	B	88	ILE
1	B	92	GLN
1	B	104	ILE
1	B	105	ASN
1	B	114	GLU

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Mol	Chain	Res	Type
1	B	120	ASN
1	B	122	SER
1	B	128	LEU
1	B	130	GLN
1	B	160	ILE
1	B	174	ARG
1	B	178	LEU
1	B	179	PHE
1	B	180	LYS
1	B	182	LEU
1	B	183	PHE
1	B	186	PHE
1	B	206	SER
1	B	207	ASP
1	B	208	TYR
1	B	209	THR
1	B	210	PHE
1	B	211	TYR
1	B	212	PRO
1	B	224	LYS
1	B	232	ILE
1	B	233	LYS
1	B	234	SER
1	B	236	THR
1	B	237	GLU
1	B	238	LEU
1	B	241	ASN
1	B	245	ILE
1	B	253	LYS
1	B	259	THR
1	B	270	SER
1	B	272	THR
1	B	275	GLN
1	B	276	LEU
1	B	287	GLN
1	B	289	GLU
1	B	300	LYS
1	B	305	GLN
1	B	308	ASN
1	B	309	HIS
1	B	316	ASP
1	B	317	SER

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Mol	Chain	Res	Type
1	B	319	GLN
1	B	320	CYS
1	B	322	TYR
1	B	326	ASN
1	B	329	LYS
1	B	333	THR
1	B	334	ARG
1	B	341	GLN
1	B	351	GLU
1	B	356	SER
1	B	358	LEU
1	B	361	THR
1	B	364	TRP
1	B	366	LYS
1	B	379	ARG
1	B	403	THR
1	B	423	GLN
1	B	427	LEU
1	B	428	LYS
1	B	432	TYR
1	B	441	PHE
1	B	456	TYR
1	B	463	SER
1	B	468	LEU
1	B	471	THR
1	B	475	MET
1	B	489	ILE
1	B	500	CYS
1	B	502	LEU
1	B	505	LYS
1	B	511	LEU
1	B	521	THR
1	B	522	GLU
1	B	525	ARG
1	B	526	LEU
1	B	531	SER
1	B	534	GLN
1	B	540	ASN
1	B	546	PHE
1	B	553	LYS
1	B	558	MET
1	B	560	ARG

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Mol	Chain	Res	Type
1	B	563	THR
1	B	564	ASP
1	B	565	LEU
1	B	572	SER
1	B	575	ILE
1	B	583	LEU
1	B	585	TYR
1	B	586	ILE
1	B	596	LYS
2	C	12	SER
2	C	17	VAL
2	C	18	TYR
2	C	19	LEU
2	C	20	LYS
2	C	22	LEU
2	C	23	PHE
2	C	24	PHE
2	C	28	ARG
2	C	29	GLU
2	C	32	SER
2	C	34	ASP
2	C	38	ARG
2	C	39	GLN
2	C	45	SER
2	C	49	MET
2	C	53	ARG
2	C	60	LEU
2	C	62	SER
2	C	82	ASP
2	C	91	THR
2	C	95	PHE
2	C	99	LEU
2	C	119	ILE
2	C	123	SER
2	C	124	LEU
2	C	128	PHE
2	C	135	ASP
2	C	137	LEU
2	C	140	LEU
2	C	142	MET
2	C	145	THR
2	C	148	ASP

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Mol	Chain	Res	Type
2	C	149	ARG
2	C	154	VAL
2	C	157	HIS
2	C	158	TYR
2	C	159	TRP
2	C	177	GLU
2	C	195	ARG
2	C	197	ASN
2	C	213	GLU
2	C	217	CYS
2	C	218	ILE
2	C	227	MET
2	C	235	ILE
2	C	245	TRP
2	C	256	MET
2	C	276	LEU
2	C	280	TYR
2	C	283	SER
2	C	334	THR
2	C	336	HIS
2	C	416	LYS
2	C	418	PHE
2	D	6	ARG
2	D	7	LEU
2	D	11	LYS
2	D	13	SER
2	D	22	LEU
2	D	23	PHE
2	D	28	ARG
2	D	31	ILE
2	D	32	SER
2	D	34	ASP
2	D	57	SER
2	D	60	LEU
2	D	63	THR
2	D	72	MET
2	D	75	SER
2	D	94	ARG
2	D	100	LEU
2	D	121	LEU
2	D	123	SER
2	D	124	LEU

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Mol	Chain	Res	Type
2	D	129	ARG
2	D	131	SER
2	D	133	THR
2	D	137	LEU
2	D	140	LEU
2	D	143	CYS
2	D	149	ARG
2	D	152	ASP
2	D	182	GLU
2	D	190	TYR
2	D	194	ARG
2	D	212	LYS
2	D	234	MET
2	D	238	ILE
2	D	247	HIS
2	D	255	MET
2	D	257	ASN
2	D	258	HIS
2	D	259	PHE
2	D	271	LEU
2	D	274	SER
2	D	315	GLN
2	D	348	SER
2	D	353	ASP
2	D	356	ILE
2	D	410	HIS
1	A	63	PHE
1	A	69	ASN
1	A	71	ILE
1	A	72	TYR
1	A	74	HIS
1	A	75	ASP
1	A	92	GLN
1	A	116	MET
1	A	117	LYS
1	A	120	ASN
1	A	122	SER
1	A	123	SER
1	A	130	GLN
1	A	133	GLN
1	A	161	LYS
1	A	162	LEU

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Mol	Chain	Res	Type
1	A	163	THR
1	A	169	LEU
1	A	170	GLU
1	A	180	LYS
1	A	182	LEU
1	A	183	PHE
1	A	184	TRP
1	A	202	GLU
1	A	207	ASP
1	A	208	TYR
1	A	209	THR
1	A	210	PHE
1	A	211	TYR
1	A	223	ILE
1	A	224	LYS
1	A	228	TRP
1	A	229	MET
1	A	232	ILE
1	A	235	LEU
1	A	236	THR
1	A	237	GLU
1	A	238	LEU
1	A	239	TYR
1	A	241	ASN
1	A	243	GLN
1	A	245	ILE
1	A	253	LYS
1	A	269	LEU
1	A	272	THR
1	A	278	ILE
1	A	279	ASN
1	A	298	LEU
1	A	300	LYS
1	A	305	GLN
1	A	311	SER
1	A	315	THR
1	A	318	THR
1	A	319	GLN
1	A	329	LYS
1	A	333	THR
1	A	334	ARG
1	A	338	LEU

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Mol	Chain	Res	Type
1	A	351	GLU
1	A	352	LEU
1	A	358	LEU
1	A	361	THR
1	A	364	TRP
1	A	365	ILE
1	A	370	LEU
1	A	374	ARG
1	A	375	THR
1	A	377	ILE
1	A	379	ARG
1	A	384	HIS
1	A	389	ASN
1	A	393	LEU
1	A	397	ILE
1	A	398	ASP
1	A	399	ILE
1	A	401	LYS
1	A	403	THR
1	A	404	ASN
1	A	408	LEU
1	A	420	SER
1	A	428	LYS
1	A	429	THR
1	A	430	MET
1	A	440	LYS
1	A	446	LEU
1	A	459	SER
1	A	467	HIS
1	A	468	LEU
1	A	475	MET
1	A	476	ASP
1	A	479	GLU
1	A	482	ILE
1	A	491	LYS
1	A	496	HIS
1	A	499	GLU
1	A	508	LEU
1	A	511	LEU
1	A	522	GLU
1	A	524	PHE
1	A	525	ARG

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Mol	Chain	Res	Type
1	A	532	ILE
1	A	534	GLN
1	A	535	GLU
1	A	538	ILE
1	A	541	LEU
1	A	543	ILE
1	A	546	PHE
1	A	548	THR
1	A	560	ARG
1	A	565	LEU
1	A	575	ILE
1	A	580	LYS
1	A	582	GLN
1	A	586	ILE
1	A	588	PHE
1	A	592	SER
1	A	593	SER
1	A	596	LYS
1	A	597	LYS
1	E	64	SER
1	E	74	HIS
1	E	76	TYR
1	E	79	PHE
1	E	92	GLN
1	E	95	LEU
1	E	108	ILE
1	E	110	HIS
1	E	116	MET
1	E	119	ILE
1	E	120	ASN
1	E	125	SER
1	E	128	LEU
1	E	129	ILE
1	E	132	THR
1	E	138	SER
1	E	171	SER
1	E	179	PHE
1	E	180	LYS
1	E	183	PHE
1	E	184	TRP
1	E	186	PHE
1	E	218	ASN

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Mol	Chain	Res	Type
1	E	225	HIS
1	E	226	LYS
1	E	227	ASN
1	E	230	ASP
1	E	233	LYS
1	E	248	ILE
1	E	253	LYS
1	E	254	ASN
1	E	263	LEU
1	E	272	THR
1	E	274	GLN
1	E	278	ILE
1	E	287	GLN
1	E	293	THR
1	E	298	LEU
1	E	299	SER
1	E	300	LYS
1	E	303	GLU
1	E	311	SER
1	E	313	THR
1	E	319	GLN
1	E	323	VAL
1	E	325	PHE
1	E	334	ARG
1	E	337	LEU
1	E	341	GLN
1	E	342	LEU
1	E	347	GLU
1	E	351	GLU
1	E	352	LEU
1	E	358	LEU
1	E	361	THR
1	E	364	TRP
1	E	370	LEU
1	E	379	ARG
1	E	389	ASN
1	E	393	LEU
1	E	403	THR
1	E	405	LEU
1	E	406	ILE
1	E	420	SER
1	E	421	SER

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Mol	Chain	Res	Type
1	E	423	GLN
1	E	429	THR
1	E	432	TYR
1	E	440	LYS
1	E	444	GLN
1	E	447	LEU
1	E	468	LEU
1	E	469	LYS
1	E	470	GLU
1	E	475	MET
1	E	491	LYS
1	E	513	TYR
1	E	516	PHE
1	E	519	LEU
1	E	522	GLU
1	E	525	ARG
1	E	528	LEU
1	E	530	HIS
1	E	552	THR
1	E	560	ARG
1	E	564	ASP
1	E	565	LEU
1	E	570	ILE
1	E	572	SER
1	E	575	ILE
1	E	593	SER
2	F	7	LEU
2	F	14	ASP
2	F	15	GLU
2	F	19	LEU
2	F	20	LYS
2	F	27	ASP
2	F	33	ARG
2	F	38	ARG
2	F	73	LEU
2	F	75	SER
2	F	77	GLU
2	F	82	ASP
2	F	110	ILE
2	F	113	HIS
2	F	114	LEU
2	F	117	LYS

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Mol	Chain	Res	Type
2	F	118	LYS
2	F	119	ILE
2	F	137	LEU
2	F	144	LYS
2	F	179	LEU
2	F	198	ILE
2	F	213	GLU
2	F	214	TYR
2	F	215	TRP
2	F	234	MET
2	F	237	ARG
2	F	247	HIS
2	F	248	LEU
2	F	251	LEU
2	F	259	PHE
2	F	261	HIS
2	F	301	PHE
2	F	305	GLN
2	F	307	TRP
2	F	309	ARG
2	F	325	SER
2	F	329	ASP
2	F	330	THR
2	F	331	LEU
2	F	338	LEU
2	F	342	LEU
2	F	348	SER
2	F	358	ASP
2	F	360	ILE
2	F	363	LYS
2	F	364	LEU
2	F	370	LEU
2	F	409	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (56) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	92	GLN
1	B	225	HIS
1	B	227	ASN
1	B	266	GLN
1	B	275	GLN

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Mol	Chain	Res	Type
1	B	305	GLN
1	B	306	HIS
1	B	309	HIS
1	B	326	ASN
1	B	423	GLN
1	B	467	HIS
1	B	534	GLN
1	B	540	ASN
2	C	134	HIS
2	C	197	ASN
2	C	229	ASN
2	C	257	ASN
2	C	258	HIS
2	C	279	ASN
2	C	336	HIS
2	D	58	HIS
2	D	61	GLN
2	D	224	HIS
2	D	257	ASN
2	D	261	HIS
1	A	92	GLN
1	A	130	GLN
1	A	185	GLN
1	A	267	HIS
1	A	274	GLN
1	A	279	ASN
1	A	308	ASN
1	A	530	HIS
1	A	534	GLN
1	A	545	GLN
1	A	582	GLN
1	E	74	HIS
1	E	98	GLN
1	E	105	ASN
1	E	142	ASN
1	E	218	ASN
1	E	227	ASN
1	E	266	GLN
1	E	305	GLN
1	E	309	HIS
1	E	341	GLN
1	E	504	ASN

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Mol	Chain	Res	Type
1	E	507	GLN
1	E	545	GLN
2	F	134	HIS
2	F	157	HIS
2	F	247	HIS
2	F	279	ASN
2	F	305	GLN
2	F	315	GLN
2	F	339	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

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

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

6.3 Carbohydrates

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

6.4 Ligands

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

6.5 Other polymers

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