



Full wwPDB EM Validation Report ⓘ

Mar 19, 2026 – 11:25 PM UTC

PDB ID : 6TGC / pdb_00006tgc
EMDB ID : EMD-10498
Title : CryoEM structure of the ternary DOCK2-ELMO1-RAC1 complex.
Authors : Chang, L.; Yang, J.; Chang, J.H.; Zhang, Z.; Boland, A.; McLaughlin, S.H.;
Abu-Thuraia, A.; Killoran, R.C.; Smith, M.J.; Cote, J.F.; Barford, D.
Deposited on : 2019-11-15
Resolution : 4.10 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp>
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:

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMD archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

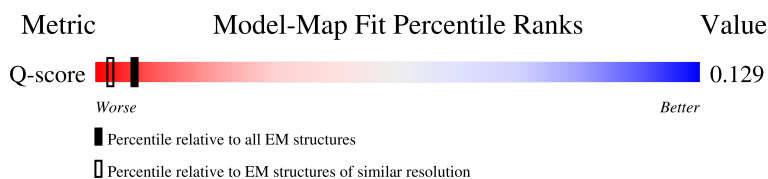
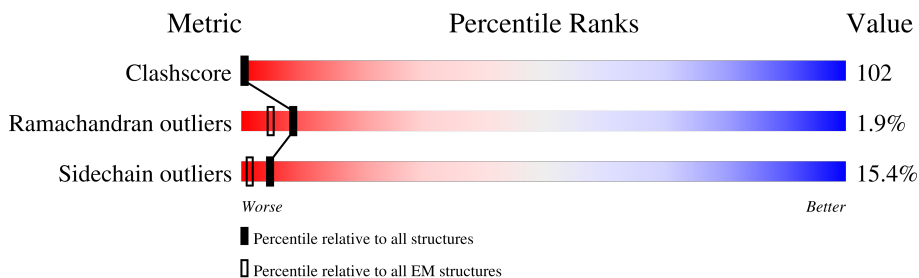
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.10 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	6458 (3.60 - 4.60)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	1830	62% 20% 46% 12% 21%
1	D	1830	16% 20% 46% 12% 21%
2	B	727	94% 57% 36% 6%
2	E	727	78% 41% 49% 6%

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Mol	Chain	Length	Quality of chain	
3	C	192		
3	F	192		

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 33282 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 Dedicator of cytokinesis protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1450	Total	C	N	O	S	0	0
			10203	6463	1792	1894	54		
1	D	1450	Total	C	N	O	S	0	0
			10203	6463	1792	1894	54		

There are 1048 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	207A	UNK	ASP	conflict	UNP Q92608
A	207B	UNK	TYR	conflict	UNP Q92608
A	207C	UNK	ALA	conflict	UNP Q92608
A	207D	UNK	MET	conflict	UNP Q92608
A	207E	UNK	TYR	conflict	UNP Q92608
A	207F	UNK	SER	conflict	UNP Q92608
A	207G	UNK	ARG	conflict	UNP Q92608
A	207H	UNK	ILE	conflict	UNP Q92608
A	207I	UNK	SER	conflict	UNP Q92608
A	207J	UNK	SER	conflict	UNP Q92608
A	207K	UNK	SER	conflict	UNP Q92608
A	207L	UNK	PRO	conflict	UNP Q92608
A	207M	UNK	THR	conflict	UNP Q92608
A	207N	UNK	HIS	conflict	UNP Q92608
A	207O	UNK	SER	conflict	UNP Q92608
A	207P	UNK	LEU	conflict	UNP Q92608
A	207Q	UNK	TYR	conflict	UNP Q92608
A	207R	UNK	VAL	conflict	UNP Q92608
A	207S	UNK	PHE	conflict	UNP Q92608
A	207T	UNK	VAL	conflict	UNP Q92608
A	207U	UNK	ARG	conflict	UNP Q92608
A	207V	UNK	ASN	conflict	UNP Q92608
A	207W	UNK	PHE	conflict	UNP Q92608
A	207X	UNK	VAL	conflict	UNP Q92608
A	207Y	UNK	CYS	conflict	UNP Q92608
A	207Z	UNK	ARG	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
A	208A	UNK	ILE	conflict	UNP Q92608
A	208B	UNK	GLY	conflict	UNP Q92608
A	208C	UNK	GLU	conflict	UNP Q92608
A	208D	UNK	ASP	conflict	UNP Q92608
A	208E	UNK	ALA	conflict	UNP Q92608
A	208F	UNK	GLU	conflict	UNP Q92608
A	208G	UNK	LEU	conflict	UNP Q92608
A	208H	UNK	PHE	conflict	UNP Q92608
A	208I	UNK	MET	conflict	UNP Q92608
A	208J	UNK	SER	conflict	UNP Q92608
A	208K	UNK	LEU	conflict	UNP Q92608
A	208L	UNK	TYR	conflict	UNP Q92608
A	208M	UNK	ASP	conflict	UNP Q92608
A	208N	UNK	PRO	conflict	UNP Q92608
A	208O	UNK	ASN	conflict	UNP Q92608
A	208P	UNK	LYS	conflict	UNP Q92608
A	208Q	UNK	GLN	conflict	UNP Q92608
A	208R	UNK	THR	conflict	UNP Q92608
A	208S	UNK	VAL	conflict	UNP Q92608
A	208T	UNK	ILE	conflict	UNP Q92608
A	208U	UNK	SER	conflict	UNP Q92608
A	208V	UNK	GLU	conflict	UNP Q92608
A	208W	UNK	ASN	conflict	UNP Q92608
A	208X	UNK	TYR	conflict	UNP Q92608
A	208Y	UNK	LEU	conflict	UNP Q92608
A	208Z	UNK	VAL	conflict	UNP Q92608
A	209A	UNK	ARG	conflict	UNP Q92608
A	209B	UNK	TRP	conflict	UNP Q92608
A	209C	UNK	GLY	conflict	UNP Q92608
A	209D	UNK	SER	conflict	UNP Q92608
A	209E	UNK	ARG	conflict	UNP Q92608
A	209F	UNK	GLY	conflict	UNP Q92608
A	209G	UNK	PHE	conflict	UNP Q92608
A	209H	UNK	PRO	conflict	UNP Q92608
A	209I	UNK	LYS	conflict	UNP Q92608
A	209J	UNK	GLU	conflict	UNP Q92608
A	209K	UNK	ILE	conflict	UNP Q92608
A	209L	UNK	GLU	conflict	UNP Q92608
A	209M	UNK	MET	conflict	UNP Q92608
A	209N	UNK	LEU	conflict	UNP Q92608
A	209O	UNK	ASN	conflict	UNP Q92608
A	209P	UNK	ASN	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
A	209Q	UNK	LEU	conflict	UNP Q92608
A	209R	UNK	LYS	conflict	UNP Q92608
A	209S	UNK	VAL	conflict	UNP Q92608
A	219	UNK	VAL	conflict	UNP Q92608
A	220	UNK	PHE	conflict	UNP Q92608
A	221	UNK	THR	conflict	UNP Q92608
A	222	UNK	ASP	conflict	UNP Q92608
A	223	UNK	LEU	conflict	UNP Q92608
A	224	UNK	GLY	conflict	UNP Q92608
A	225	UNK	ASN	conflict	UNP Q92608
A	226	UNK	LYS	conflict	UNP Q92608
A	227	UNK	ASP	conflict	UNP Q92608
A	228	UNK	LEU	conflict	UNP Q92608
A	229	UNK	ASN	conflict	UNP Q92608
A	230	UNK	ARG	conflict	UNP Q92608
A	231	UNK	ASP	conflict	UNP Q92608
A	232	UNK	LYS	conflict	UNP Q92608
A	233	UNK	ILE	conflict	UNP Q92608
A	234	UNK	TYR	conflict	UNP Q92608
A	235	UNK	LEU	conflict	UNP Q92608
A	236	UNK	ILE	conflict	UNP Q92608
A	237	UNK	CYS	conflict	UNP Q92608
A	238	UNK	GLN	conflict	UNP Q92608
A	239	UNK	ILE	conflict	UNP Q92608
A	240	UNK	VAL	conflict	UNP Q92608
A	241	UNK	ARG	conflict	UNP Q92608
A	242	UNK	VAL	conflict	UNP Q92608
A	243	UNK	GLY	conflict	UNP Q92608
A	244	UNK	LYS	conflict	UNP Q92608
A	245	UNK	MET	conflict	UNP Q92608
A	246	UNK	ASP	conflict	UNP Q92608
A	247	UNK	LEU	conflict	UNP Q92608
A	248	UNK	LYS	conflict	UNP Q92608
A	249	UNK	ASP	conflict	UNP Q92608
A	250	UNK	THR	conflict	UNP Q92608
A	251	UNK	GLY	conflict	UNP Q92608
A	252	UNK	ALA	conflict	UNP Q92608
A	253	UNK	LYS	conflict	UNP Q92608
A	254	UNK	LYS	conflict	UNP Q92608
A	255	UNK	CYS	conflict	UNP Q92608
A	256	UNK	THR	conflict	UNP Q92608
A	257	UNK	GLN	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
A	258	UNK	GLY	conflict	UNP Q92608
A	259	UNK	LEU	conflict	UNP Q92608
A	260	UNK	ARG	conflict	UNP Q92608
A	261	UNK	ARG	conflict	UNP Q92608
A	262	UNK	PRO	conflict	UNP Q92608
A	263	UNK	PHE	conflict	UNP Q92608
A	264	UNK	GLY	conflict	UNP Q92608
A	265	UNK	VAL	conflict	UNP Q92608
A	266	UNK	ALA	conflict	UNP Q92608
A	267	UNK	VAL	conflict	UNP Q92608
A	268	UNK	MET	conflict	UNP Q92608
A	269	UNK	ASP	conflict	UNP Q92608
A	270	UNK	ILE	conflict	UNP Q92608
A	271	UNK	THR	conflict	UNP Q92608
A	272	UNK	ASP	conflict	UNP Q92608
A	273	UNK	ILE	conflict	UNP Q92608
A	274	UNK	ILE	conflict	UNP Q92608
A	275	UNK	LYS	conflict	UNP Q92608
A	276	UNK	GLY	conflict	UNP Q92608
A	277	UNK	LYS	conflict	UNP Q92608
A	278	UNK	ALA	conflict	UNP Q92608
A	279	UNK	GLU	conflict	UNP Q92608
A	280	UNK	SER	conflict	UNP Q92608
A	281	UNK	ASP	conflict	UNP Q92608
A	282	UNK	GLU	conflict	UNP Q92608
A	283	UNK	GLU	conflict	UNP Q92608
A	284	UNK	LYS	conflict	UNP Q92608
A	285	UNK	GLN	conflict	UNP Q92608
A	286	UNK	HIS	conflict	UNP Q92608
A	287	UNK	PHE	conflict	UNP Q92608
A	288	UNK	ILE	conflict	UNP Q92608
A	289	UNK	PRO	conflict	UNP Q92608
A	290	UNK	PHE	conflict	UNP Q92608
A	291	UNK	HIS	conflict	UNP Q92608
A	292	UNK	PRO	conflict	UNP Q92608
A	293	UNK	VAL	conflict	UNP Q92608
A	294	UNK	THR	conflict	UNP Q92608
A	295	UNK	ALA	conflict	UNP Q92608
A	296	UNK	GLU	conflict	UNP Q92608
A	297	UNK	ASN	conflict	UNP Q92608
A	298	UNK	ASP	conflict	UNP Q92608
A	299	UNK	PHE	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
A	300	UNK	LEU	conflict	UNP Q92608
A	301	UNK	HIS	conflict	UNP Q92608
A	302	UNK	SER	conflict	UNP Q92608
A	303	UNK	LEU	conflict	UNP Q92608
A	304	UNK	LEU	conflict	UNP Q92608
A	318	UNK	GLY	conflict	UNP Q92608
A	319	UNK	LYS	conflict	UNP Q92608
A	320	UNK	VAL	conflict	UNP Q92608
A	321	UNK	ILE	conflict	UNP Q92608
A	322	UNK	ALA	conflict	UNP Q92608
A	323	UNK	SER	conflict	UNP Q92608
A	324	UNK	LYS	conflict	UNP Q92608
A	325	UNK	GLY	conflict	UNP Q92608
A	326	UNK	ASP	conflict	UNP Q92608
A	327	UNK	SER	conflict	UNP Q92608
A	328	UNK	GLY	conflict	UNP Q92608
A	329	UNK	GLY	conflict	UNP Q92608
A	330	UNK	GLN	conflict	UNP Q92608
A	331	UNK	GLY	conflict	UNP Q92608
A	332	UNK	LEU	conflict	UNP Q92608
A	333	UNK	TRP	conflict	UNP Q92608
A	334	UNK	VAL	conflict	UNP Q92608
A	335	UNK	THR	conflict	UNP Q92608
A	336	UNK	MET	conflict	UNP Q92608
A	337	UNK	LYS	conflict	UNP Q92608
A	338	UNK	MET	conflict	UNP Q92608
A	339	UNK	LEU	conflict	UNP Q92608
A	340	UNK	VAL	conflict	UNP Q92608
A	341	UNK	GLY	conflict	UNP Q92608
A	342	UNK	ASP	conflict	UNP Q92608
A	343	UNK	ILE	conflict	UNP Q92608
A	344	UNK	ILE	conflict	UNP Q92608
A	345	UNK	GLN	conflict	UNP Q92608
A	346	UNK	ILE	conflict	UNP Q92608
A	347	UNK	ARG	conflict	UNP Q92608
A	348	UNK	LYS	conflict	UNP Q92608
A	349	UNK	ASP	conflict	UNP Q92608
A	350	UNK	TYR	conflict	UNP Q92608
A	351	UNK	PRO	conflict	UNP Q92608
A	377	UNK	HIS	conflict	UNP Q92608
A	378	UNK	LEU	conflict	UNP Q92608
A	379	UNK	VAL	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
A	380	UNK	ASP	conflict	UNP Q92608
A	381	UNK	ARG	conflict	UNP Q92608
A	382	UNK	THR	conflict	UNP Q92608
A	383	UNK	THR	conflict	UNP Q92608
A	384	UNK	VAL	conflict	UNP Q92608
A	385	UNK	VAL	conflict	UNP Q92608
A	386	UNK	ALA	conflict	UNP Q92608
A	387	UNK	ARG	conflict	UNP Q92608
A	388	UNK	LYS	conflict	UNP Q92608
A	389	UNK	LEU	conflict	UNP Q92608
A	609A	UNK	LYS	conflict	UNP Q92608
A	609B	UNK	LEU	conflict	UNP Q92608
A	609C	UNK	THR	conflict	UNP Q92608
A	609D	UNK	GLN	conflict	UNP Q92608
A	609E	UNK	ASN	conflict	UNP Q92608
A	609F	UNK	VAL	conflict	UNP Q92608
A	609G	UNK	GLY	conflict	UNP Q92608
A	609H	UNK	LEU	conflict	UNP Q92608
A	609I	UNK	LEU	conflict	UNP Q92608
A	609J	UNK	GLY	conflict	UNP Q92608
A	609K	UNK	LEU	conflict	UNP Q92608
A	609L	UNK	LEU	conflict	UNP Q92608
A	609M	UNK	LYS	conflict	UNP Q92608
A	609N	UNK	TRP	conflict	UNP Q92608
A	609O	UNK	ARG	conflict	UNP Q92608
A	609P	UNK	MET	conflict	UNP Q92608
A	609Q	UNK	LYS	conflict	UNP Q92608
A	609R	UNK	PRO	conflict	UNP Q92608
A	609S	UNK	GLN	conflict	UNP Q92608
A	609T	UNK	LEU	conflict	UNP Q92608
A	609U	UNK	LEU	conflict	UNP Q92608
A	609V	UNK	GLN	conflict	UNP Q92608
A	609W	UNK	GLU	conflict	UNP Q92608
A	609X	UNK	ASN	conflict	UNP Q92608
A	609Y	UNK	LEU	conflict	UNP Q92608
A	609Z	UNK	GLU	conflict	UNP Q92608
A	610A	UNK	LYS	conflict	UNP Q92608
A	610B	UNK	LEU	conflict	UNP Q92608
A	610C	UNK	LYS	conflict	UNP Q92608
A	610D	UNK	ILE	conflict	UNP Q92608
A	610E	UNK	VAL	conflict	UNP Q92608
A	610F	UNK	ASP	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
A	626	UNK	GLY	conflict	UNP Q92608
A	627	UNK	GLU	conflict	UNP Q92608
A	628	UNK	GLU	conflict	UNP Q92608
A	629	UNK	VAL	conflict	UNP Q92608
A	630	UNK	VAL	conflict	UNP Q92608
A	631	UNK	LYS	conflict	UNP Q92608
A	632	UNK	PHE	conflict	UNP Q92608
A	633	UNK	LEU	conflict	UNP Q92608
A	634	UNK	GLN	conflict	UNP Q92608
A	635	UNK	ASP	conflict	UNP Q92608
A	636	UNK	THR	conflict	UNP Q92608
A	637	UNK	LEU	conflict	UNP Q92608
A	638	UNK	ASP	conflict	UNP Q92608
A	639	UNK	ALA	conflict	UNP Q92608
A	640	UNK	LEU	conflict	UNP Q92608
A	641	UNK	PHE	conflict	UNP Q92608
A	642	UNK	ASN	conflict	UNP Q92608
A	679A	UNK	HIS	conflict	UNP Q92608
A	679B	UNK	PHE	conflict	UNP Q92608
A	679C	UNK	ASN	conflict	UNP Q92608
A	679D	UNK	THR	conflict	UNP Q92608
A	679E	UNK	VAL	conflict	UNP Q92608
A	679F	UNK	LEU	conflict	UNP Q92608
A	679G	UNK	GLU	conflict	UNP Q92608
A	679H	UNK	ALA	conflict	UNP Q92608
A	679I	UNK	TYR	conflict	UNP Q92608
A	679J	UNK	ILE	conflict	UNP Q92608
A	679K	UNK	GLN	conflict	UNP Q92608
A	679L	UNK	GLN	conflict	UNP Q92608
A	679M	UNK	HIS	conflict	UNP Q92608
A	679N	UNK	PHE	conflict	UNP Q92608
A	679O	UNK	SER	conflict	UNP Q92608
A	679P	UNK	ALA	conflict	UNP Q92608
A	679Q	UNK	THR	conflict	UNP Q92608
A	688	UNK	LEU	conflict	UNP Q92608
A	689	UNK	ALA	conflict	UNP Q92608
A	690	UNK	TYR	conflict	UNP Q92608
A	691	UNK	LYS	conflict	UNP Q92608
A	692	UNK	LYS	conflict	UNP Q92608
A	693	UNK	LEU	conflict	UNP Q92608
A	694	UNK	MET	conflict	UNP Q92608
A	695	UNK	THR	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
A	696	UNK	VAL	conflict	UNP Q92608
A	697	UNK	LEU	conflict	UNP Q92608
A	698	UNK	LYS	conflict	UNP Q92608
A	699	UNK	THR	conflict	UNP Q92608
A	700	UNK	TYR	conflict	UNP Q92608
A	701	UNK	LEU	conflict	UNP Q92608
A	702	UNK	ASP	conflict	UNP Q92608
A	703	UNK	THR	conflict	UNP Q92608
A	704	UNK	SER	conflict	UNP Q92608
A	705	UNK	SER	conflict	UNP Q92608
A	706	UNK	ARG	conflict	UNP Q92608
A	707	UNK	GLY	conflict	UNP Q92608
A	708	UNK	GLU	conflict	UNP Q92608
A	709	UNK	GLN	conflict	UNP Q92608
A	710	UNK	CYS	conflict	UNP Q92608
A	711	UNK	GLU	conflict	UNP Q92608
A	712	UNK	PRO	conflict	UNP Q92608
A	713	UNK	ILE	conflict	UNP Q92608
A	714	UNK	LEU	conflict	UNP Q92608
A	715	UNK	ARG	conflict	UNP Q92608
A	716	UNK	THR	conflict	UNP Q92608
A	717	UNK	LEU	conflict	UNP Q92608
A	718	UNK	LYS	conflict	UNP Q92608
A	719	UNK	ALA	conflict	UNP Q92608
A	720	UNK	LEU	conflict	UNP Q92608
A	721	UNK	GLU	conflict	UNP Q92608
A	722	UNK	TYR	conflict	UNP Q92608
A	723	UNK	VAL	conflict	UNP Q92608
A	724	UNK	PHE	conflict	UNP Q92608
A	725	UNK	LYS	conflict	UNP Q92608
A	726	UNK	PHE	conflict	UNP Q92608
A	727	UNK	ILE	conflict	UNP Q92608
A	728	UNK	VAL	conflict	UNP Q92608
A	729	UNK	ARG	conflict	UNP Q92608
A	730	UNK	SER	conflict	UNP Q92608
A	731	UNK	ARG	conflict	UNP Q92608
A	732	UNK	THR	conflict	UNP Q92608
A	733	UNK	LEU	conflict	UNP Q92608
A	734	UNK	PHE	conflict	UNP Q92608
A	735	UNK	SER	conflict	UNP Q92608
A	736	UNK	GLN	conflict	UNP Q92608
A	742	UNK	LEU	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
A	743	UNK	TYR	conflict	UNP Q92608
A	744	UNK	GLU	conflict	UNP Q92608
A	745	UNK	GLY	conflict	UNP Q92608
A	746	UNK	LYS	conflict	UNP Q92608
A	747	UNK	GLU	conflict	UNP Q92608
A	748	UNK	GLN	conflict	UNP Q92608
A	749	UNK	MET	conflict	UNP Q92608
A	750	UNK	GLU	conflict	UNP Q92608
A	751	UNK	PHE	conflict	UNP Q92608
A	752	UNK	GLU	conflict	UNP Q92608
A	753	UNK	GLU	conflict	UNP Q92608
A	754	UNK	SER	conflict	UNP Q92608
A	755	UNK	MET	conflict	UNP Q92608
A	756	UNK	ARG	conflict	UNP Q92608
A	757	UNK	ARG	conflict	UNP Q92608
A	758	UNK	LEU	conflict	UNP Q92608
A	759	UNK	PHE	conflict	UNP Q92608
A	760	UNK	GLU	conflict	UNP Q92608
A	761	UNK	SER	conflict	UNP Q92608
A	762	UNK	ILE	conflict	UNP Q92608
A	763	UNK	ASN	conflict	UNP Q92608
A	764	UNK	ASN	conflict	UNP Q92608
A	765	UNK	LEU	conflict	UNP Q92608
A	766	UNK	MET	conflict	UNP Q92608
A	767	UNK	LYS	conflict	UNP Q92608
A	768	UNK	SER	conflict	UNP Q92608
A	769	UNK	GLN	conflict	UNP Q92608
A	770	UNK	TYR	conflict	UNP Q92608
A	771	UNK	LYS	conflict	UNP Q92608
A	772	UNK	THR	conflict	UNP Q92608
A	773	UNK	THR	conflict	UNP Q92608
A	774	UNK	ILE	conflict	UNP Q92608
A	775	UNK	LEU	conflict	UNP Q92608
A	776	UNK	LEU	conflict	UNP Q92608
A	777	UNK	GLN	conflict	UNP Q92608
A	778	UNK	VAL	conflict	UNP Q92608
A	779	UNK	ALA	conflict	UNP Q92608
A	780	UNK	ALA	conflict	UNP Q92608
A	781	UNK	LEU	conflict	UNP Q92608
A	782	UNK	LYS	conflict	UNP Q92608
A	783	UNK	TYR	conflict	UNP Q92608
A	784	UNK	ILE	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
A	785	UNK	PRO	conflict	UNP Q92608
A	786	UNK	SER	conflict	UNP Q92608
A	787	UNK	VAL	conflict	UNP Q92608
A	788	UNK	LEU	conflict	UNP Q92608
A	789	UNK	HIS	conflict	UNP Q92608
A	790	UNK	ASP	conflict	UNP Q92608
A	791	UNK	VAL	conflict	UNP Q92608
A	792	UNK	GLU	conflict	UNP Q92608
A	793	UNK	MET	conflict	UNP Q92608
A	794	UNK	VAL	conflict	UNP Q92608
A	795	UNK	PHE	conflict	UNP Q92608
A	796	UNK	ASP	conflict	UNP Q92608
A	797	UNK	ALA	conflict	UNP Q92608
A	798	UNK	LYS	conflict	UNP Q92608
A	799	UNK	LEU	conflict	UNP Q92608
A	801	UNK	LEU	conflict	UNP Q92608
A	802	UNK	SER	conflict	UNP Q92608
A	803	UNK	GLN	conflict	UNP Q92608
A	804	UNK	LEU	conflict	UNP Q92608
A	805	UNK	LEU	conflict	UNP Q92608
A	806	UNK	TYR	conflict	UNP Q92608
A	807	UNK	GLU	conflict	UNP Q92608
A	808	UNK	PHE	conflict	UNP Q92608
A	809	UNK	TYR	conflict	UNP Q92608
A	810	UNK	THR	conflict	UNP Q92608
A	811	UNK	CYS	conflict	UNP Q92608
A	812	UNK	ILE	conflict	UNP Q92608
A	813	UNK	PRO	conflict	UNP Q92608
A	814	UNK	PRO	conflict	UNP Q92608
A	815	UNK	VAL	conflict	UNP Q92608
A	816	UNK	LYS	conflict	UNP Q92608
A	817	UNK	LEU	conflict	UNP Q92608
A	818	UNK	GLN	conflict	UNP Q92608
A	819	UNK	LYS	conflict	UNP Q92608
A	820	UNK	GLN	conflict	UNP Q92608
A	821	UNK	LYS	conflict	UNP Q92608
A	822	UNK	VAL	conflict	UNP Q92608
A	823	UNK	GLN	conflict	UNP Q92608
A	824	UNK	SER	conflict	UNP Q92608
A	825	UNK	MET	conflict	UNP Q92608
A	826	UNK	ASN	conflict	UNP Q92608
A	827	UNK	GLU	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
A	828	UNK	ILE	conflict	UNP Q92608
A	829	UNK	VAL	conflict	UNP Q92608
A	830	UNK	GLN	conflict	UNP Q92608
A	831	UNK	SER	conflict	UNP Q92608
A	832	UNK	ASN	conflict	UNP Q92608
A	833	UNK	LEU	conflict	UNP Q92608
A	834	UNK	PHE	conflict	UNP Q92608
A	835	UNK	LYS	conflict	UNP Q92608
A	836	UNK	LYS	conflict	UNP Q92608
A	837	UNK	GLN	conflict	UNP Q92608
A	838	UNK	GLU	conflict	UNP Q92608
A	839	UNK	CYS	conflict	UNP Q92608
A	840	UNK	ARG	conflict	UNP Q92608
A	841	UNK	ASP	conflict	UNP Q92608
A	842	UNK	ILE	conflict	UNP Q92608
A	843	UNK	LEU	conflict	UNP Q92608
A	844	UNK	LEU	conflict	UNP Q92608
A	845	UNK	PRO	conflict	UNP Q92608
A	846	UNK	VAL	conflict	UNP Q92608
A	847	UNK	ILE	conflict	UNP Q92608
A	848	UNK	THR	conflict	UNP Q92608
A	849	UNK	LYS	conflict	UNP Q92608
A	850	UNK	GLU	conflict	UNP Q92608
A	851	UNK	LEU	conflict	UNP Q92608
A	852	UNK	LYS	conflict	UNP Q92608
A	853	UNK	GLU	conflict	UNP Q92608
A	854	UNK	LEU	conflict	UNP Q92608
A	855	UNK	LEU	conflict	UNP Q92608
A	856	UNK	GLU	conflict	UNP Q92608
A	857	UNK	GLN	conflict	UNP Q92608
A	858	UNK	LYS	conflict	UNP Q92608
A	859	UNK	ASP	conflict	UNP Q92608
A	860	UNK	ASP	conflict	UNP Q92608
A	861	UNK	MET	conflict	UNP Q92608
A	862	UNK	GLN	conflict	UNP Q92608
A	863	UNK	HIS	conflict	UNP Q92608
A	864	UNK	GLN	conflict	UNP Q92608
A	865	UNK	VAL	conflict	UNP Q92608
A	866	UNK	LEU	conflict	UNP Q92608
A	867	UNK	GLU	conflict	UNP Q92608
A	868	UNK	ARG	conflict	UNP Q92608
A	869	UNK	LYS	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
A	870	UNK	TYR	conflict	UNP Q92608
A	871	UNK	CYS	conflict	UNP Q92608
A	872	UNK	VAL	conflict	UNP Q92608
A	873	UNK	GLU	conflict	UNP Q92608
A	874	UNK	LEU	conflict	UNP Q92608
A	875	UNK	LEU	conflict	UNP Q92608
A	876	UNK	ASN	conflict	UNP Q92608
A	877	UNK	SER	conflict	UNP Q92608
A	878	UNK	ILE	conflict	UNP Q92608
A	879	UNK	LEU	conflict	UNP Q92608
A	880	UNK	GLU	conflict	UNP Q92608
A	881	UNK	VAL	conflict	UNP Q92608
A	882	UNK	LEU	conflict	UNP Q92608
A	883	UNK	SER	conflict	UNP Q92608
A	884	UNK	TYR	conflict	UNP Q92608
A	885	UNK	GLN	conflict	UNP Q92608
A	886	UNK	ASP	conflict	UNP Q92608
A	887	UNK	ALA	conflict	UNP Q92608
A	888	UNK	ALA	conflict	UNP Q92608
A	889	UNK	PHE	conflict	UNP Q92608
A	890	UNK	THR	conflict	UNP Q92608
A	891	UNK	TYR	conflict	UNP Q92608
A	892	UNK	HIS	conflict	UNP Q92608
A	896	UNK	HIS	conflict	UNP Q92608
A	897	UNK	ILE	conflict	UNP Q92608
A	898	UNK	GLN	conflict	UNP Q92608
A	899	UNK	GLU	conflict	UNP Q92608
A	900	UNK	ILE	conflict	UNP Q92608
A	901	UNK	MET	conflict	UNP Q92608
A	902	UNK	VAL	conflict	UNP Q92608
A	903	UNK	GLN	conflict	UNP Q92608
A	904	UNK	LEU	conflict	UNP Q92608
A	905	UNK	LEU	conflict	UNP Q92608
A	906	UNK	ARG	conflict	UNP Q92608
A	907	UNK	THR	conflict	UNP Q92608
A	908	UNK	VAL	conflict	UNP Q92608
A	909	UNK	ASN	conflict	UNP Q92608
A	910	UNK	ARG	conflict	UNP Q92608
A	911	UNK	THR	conflict	UNP Q92608
A	912	UNK	VAL	conflict	UNP Q92608
A	913	UNK	ILE	conflict	UNP Q92608
A	914	UNK	THR	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
A	915	UNK	MET	conflict	UNP Q92608
A	916	UNK	GLY	conflict	UNP Q92608
A	917	UNK	ARG	conflict	UNP Q92608
A	918	UNK	ASP	conflict	UNP Q92608
A	919	UNK	HIS	conflict	UNP Q92608
A	920	UNK	ILE	conflict	UNP Q92608
A	921	UNK	LEU	conflict	UNP Q92608
A	922	UNK	ILE	conflict	UNP Q92608
A	923	UNK	SER	conflict	UNP Q92608
A	934	UNK	HIS	conflict	UNP Q92608
A	935	UNK	PHE	conflict	UNP Q92608
A	936	UNK	VAL	conflict	UNP Q92608
A	937	UNK	ALA	conflict	UNP Q92608
A	938	UNK	CYS	conflict	UNP Q92608
A	939	UNK	MET	conflict	UNP Q92608
A	940	UNK	THR	conflict	UNP Q92608
A	941	UNK	ALA	conflict	UNP Q92608
A	942	UNK	ILE	conflict	UNP Q92608
A	943	UNK	LEU	conflict	UNP Q92608
A	944	UNK	ASN	conflict	UNP Q92608
A	945	UNK	GLN	conflict	UNP Q92608
A	946	UNK	MET	conflict	UNP Q92608
A	947	UNK	GLY	conflict	UNP Q92608
A	948	UNK	ASP	conflict	UNP Q92608
A	949	UNK	GLN	conflict	UNP Q92608
A	950	UNK	HIS	conflict	UNP Q92608
A	951	UNK	TYR	conflict	UNP Q92608
A	952	UNK	SER	conflict	UNP Q92608
A	953	UNK	PHE	conflict	UNP Q92608
A	954	UNK	TYR	conflict	UNP Q92608
A	955	UNK	ILE	conflict	UNP Q92608
A	956	UNK	GLU	conflict	UNP Q92608
A	957	UNK	THR	conflict	UNP Q92608
A	958	UNK	PHE	conflict	UNP Q92608
A	959	UNK	GLN	conflict	UNP Q92608
A	960	UNK	THR	conflict	UNP Q92608
D	207A	UNK	ASP	conflict	UNP Q92608
D	207B	UNK	TYR	conflict	UNP Q92608
D	207C	UNK	ALA	conflict	UNP Q92608
D	207D	UNK	MET	conflict	UNP Q92608
D	207E	UNK	TYR	conflict	UNP Q92608
D	207F	UNK	SER	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	207G	UNK	ARG	conflict	UNP Q92608
D	207H	UNK	ILE	conflict	UNP Q92608
D	207I	UNK	SER	conflict	UNP Q92608
D	207J	UNK	SER	conflict	UNP Q92608
D	207K	UNK	SER	conflict	UNP Q92608
D	207L	UNK	PRO	conflict	UNP Q92608
D	207M	UNK	THR	conflict	UNP Q92608
D	207N	UNK	HIS	conflict	UNP Q92608
D	207O	UNK	SER	conflict	UNP Q92608
D	207P	UNK	LEU	conflict	UNP Q92608
D	207Q	UNK	TYR	conflict	UNP Q92608
D	207R	UNK	VAL	conflict	UNP Q92608
D	207S	UNK	PHE	conflict	UNP Q92608
D	207T	UNK	VAL	conflict	UNP Q92608
D	207U	UNK	ARG	conflict	UNP Q92608
D	207V	UNK	ASN	conflict	UNP Q92608
D	207W	UNK	PHE	conflict	UNP Q92608
D	207X	UNK	VAL	conflict	UNP Q92608
D	207Y	UNK	CYS	conflict	UNP Q92608
D	207Z	UNK	ARG	conflict	UNP Q92608
D	208A	UNK	ILE	conflict	UNP Q92608
D	208B	UNK	GLY	conflict	UNP Q92608
D	208C	UNK	GLU	conflict	UNP Q92608
D	208D	UNK	ASP	conflict	UNP Q92608
D	208E	UNK	ALA	conflict	UNP Q92608
D	208F	UNK	GLU	conflict	UNP Q92608
D	208G	UNK	LEU	conflict	UNP Q92608
D	208H	UNK	PHE	conflict	UNP Q92608
D	208I	UNK	MET	conflict	UNP Q92608
D	208J	UNK	SER	conflict	UNP Q92608
D	208K	UNK	LEU	conflict	UNP Q92608
D	208L	UNK	TYR	conflict	UNP Q92608
D	208M	UNK	ASP	conflict	UNP Q92608
D	208N	UNK	PRO	conflict	UNP Q92608
D	208O	UNK	ASN	conflict	UNP Q92608
D	208P	UNK	LYS	conflict	UNP Q92608
D	208Q	UNK	GLN	conflict	UNP Q92608
D	208R	UNK	THR	conflict	UNP Q92608
D	208S	UNK	VAL	conflict	UNP Q92608
D	208T	UNK	ILE	conflict	UNP Q92608
D	208U	UNK	SER	conflict	UNP Q92608
D	208V	UNK	GLU	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	208W	UNK	ASN	conflict	UNP Q92608
D	208X	UNK	TYR	conflict	UNP Q92608
D	208Y	UNK	LEU	conflict	UNP Q92608
D	208Z	UNK	VAL	conflict	UNP Q92608
D	209A	UNK	ARG	conflict	UNP Q92608
D	209B	UNK	TRP	conflict	UNP Q92608
D	209C	UNK	GLY	conflict	UNP Q92608
D	209D	UNK	SER	conflict	UNP Q92608
D	209E	UNK	ARG	conflict	UNP Q92608
D	209F	UNK	GLY	conflict	UNP Q92608
D	209G	UNK	PHE	conflict	UNP Q92608
D	209H	UNK	PRO	conflict	UNP Q92608
D	209I	UNK	LYS	conflict	UNP Q92608
D	209J	UNK	GLU	conflict	UNP Q92608
D	209K	UNK	ILE	conflict	UNP Q92608
D	209L	UNK	GLU	conflict	UNP Q92608
D	209M	UNK	MET	conflict	UNP Q92608
D	209N	UNK	LEU	conflict	UNP Q92608
D	209O	UNK	ASN	conflict	UNP Q92608
D	209P	UNK	ASN	conflict	UNP Q92608
D	209Q	UNK	LEU	conflict	UNP Q92608
D	209R	UNK	LYS	conflict	UNP Q92608
D	209S	UNK	VAL	conflict	UNP Q92608
D	219	UNK	VAL	conflict	UNP Q92608
D	220	UNK	PHE	conflict	UNP Q92608
D	221	UNK	THR	conflict	UNP Q92608
D	222	UNK	ASP	conflict	UNP Q92608
D	223	UNK	LEU	conflict	UNP Q92608
D	224	UNK	GLY	conflict	UNP Q92608
D	225	UNK	ASN	conflict	UNP Q92608
D	226	UNK	LYS	conflict	UNP Q92608
D	227	UNK	ASP	conflict	UNP Q92608
D	228	UNK	LEU	conflict	UNP Q92608
D	229	UNK	ASN	conflict	UNP Q92608
D	230	UNK	ARG	conflict	UNP Q92608
D	231	UNK	ASP	conflict	UNP Q92608
D	232	UNK	LYS	conflict	UNP Q92608
D	233	UNK	ILE	conflict	UNP Q92608
D	234	UNK	TYR	conflict	UNP Q92608
D	235	UNK	LEU	conflict	UNP Q92608
D	236	UNK	ILE	conflict	UNP Q92608
D	237	UNK	CYS	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	238	UNK	GLN	conflict	UNP Q92608
D	239	UNK	ILE	conflict	UNP Q92608
D	240	UNK	VAL	conflict	UNP Q92608
D	241	UNK	ARG	conflict	UNP Q92608
D	242	UNK	VAL	conflict	UNP Q92608
D	243	UNK	GLY	conflict	UNP Q92608
D	244	UNK	LYS	conflict	UNP Q92608
D	245	UNK	MET	conflict	UNP Q92608
D	246	UNK	ASP	conflict	UNP Q92608
D	247	UNK	LEU	conflict	UNP Q92608
D	248	UNK	LYS	conflict	UNP Q92608
D	249	UNK	ASP	conflict	UNP Q92608
D	250	UNK	THR	conflict	UNP Q92608
D	251	UNK	GLY	conflict	UNP Q92608
D	252	UNK	ALA	conflict	UNP Q92608
D	253	UNK	LYS	conflict	UNP Q92608
D	254	UNK	LYS	conflict	UNP Q92608
D	255	UNK	CYS	conflict	UNP Q92608
D	256	UNK	THR	conflict	UNP Q92608
D	257	UNK	GLN	conflict	UNP Q92608
D	258	UNK	GLY	conflict	UNP Q92608
D	259	UNK	LEU	conflict	UNP Q92608
D	260	UNK	ARG	conflict	UNP Q92608
D	261	UNK	ARG	conflict	UNP Q92608
D	262	UNK	PRO	conflict	UNP Q92608
D	263	UNK	PHE	conflict	UNP Q92608
D	264	UNK	GLY	conflict	UNP Q92608
D	265	UNK	VAL	conflict	UNP Q92608
D	266	UNK	ALA	conflict	UNP Q92608
D	267	UNK	VAL	conflict	UNP Q92608
D	268	UNK	MET	conflict	UNP Q92608
D	269	UNK	ASP	conflict	UNP Q92608
D	270	UNK	ILE	conflict	UNP Q92608
D	271	UNK	THR	conflict	UNP Q92608
D	272	UNK	ASP	conflict	UNP Q92608
D	273	UNK	ILE	conflict	UNP Q92608
D	274	UNK	ILE	conflict	UNP Q92608
D	275	UNK	LYS	conflict	UNP Q92608
D	276	UNK	GLY	conflict	UNP Q92608
D	277	UNK	LYS	conflict	UNP Q92608
D	278	UNK	ALA	conflict	UNP Q92608
D	279	UNK	GLU	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	280	UNK	SER	conflict	UNP Q92608
D	281	UNK	ASP	conflict	UNP Q92608
D	282	UNK	GLU	conflict	UNP Q92608
D	283	UNK	GLU	conflict	UNP Q92608
D	284	UNK	LYS	conflict	UNP Q92608
D	285	UNK	GLN	conflict	UNP Q92608
D	286	UNK	HIS	conflict	UNP Q92608
D	287	UNK	PHE	conflict	UNP Q92608
D	288	UNK	ILE	conflict	UNP Q92608
D	289	UNK	PRO	conflict	UNP Q92608
D	290	UNK	PHE	conflict	UNP Q92608
D	291	UNK	HIS	conflict	UNP Q92608
D	292	UNK	PRO	conflict	UNP Q92608
D	293	UNK	VAL	conflict	UNP Q92608
D	294	UNK	THR	conflict	UNP Q92608
D	295	UNK	ALA	conflict	UNP Q92608
D	296	UNK	GLU	conflict	UNP Q92608
D	297	UNK	ASN	conflict	UNP Q92608
D	298	UNK	ASP	conflict	UNP Q92608
D	299	UNK	PHE	conflict	UNP Q92608
D	300	UNK	LEU	conflict	UNP Q92608
D	301	UNK	HIS	conflict	UNP Q92608
D	302	UNK	SER	conflict	UNP Q92608
D	303	UNK	LEU	conflict	UNP Q92608
D	304	UNK	LEU	conflict	UNP Q92608
D	318	UNK	GLY	conflict	UNP Q92608
D	319	UNK	LYS	conflict	UNP Q92608
D	320	UNK	VAL	conflict	UNP Q92608
D	321	UNK	ILE	conflict	UNP Q92608
D	322	UNK	ALA	conflict	UNP Q92608
D	323	UNK	SER	conflict	UNP Q92608
D	324	UNK	LYS	conflict	UNP Q92608
D	325	UNK	GLY	conflict	UNP Q92608
D	326	UNK	ASP	conflict	UNP Q92608
D	327	UNK	SER	conflict	UNP Q92608
D	328	UNK	GLY	conflict	UNP Q92608
D	329	UNK	GLY	conflict	UNP Q92608
D	330	UNK	GLN	conflict	UNP Q92608
D	331	UNK	GLY	conflict	UNP Q92608
D	332	UNK	LEU	conflict	UNP Q92608
D	333	UNK	TRP	conflict	UNP Q92608
D	334	UNK	VAL	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	335	UNK	THR	conflict	UNP Q92608
D	336	UNK	MET	conflict	UNP Q92608
D	337	UNK	LYS	conflict	UNP Q92608
D	338	UNK	MET	conflict	UNP Q92608
D	339	UNK	LEU	conflict	UNP Q92608
D	340	UNK	VAL	conflict	UNP Q92608
D	341	UNK	GLY	conflict	UNP Q92608
D	342	UNK	ASP	conflict	UNP Q92608
D	343	UNK	ILE	conflict	UNP Q92608
D	344	UNK	ILE	conflict	UNP Q92608
D	345	UNK	GLN	conflict	UNP Q92608
D	346	UNK	ILE	conflict	UNP Q92608
D	347	UNK	ARG	conflict	UNP Q92608
D	348	UNK	LYS	conflict	UNP Q92608
D	349	UNK	ASP	conflict	UNP Q92608
D	350	UNK	TYR	conflict	UNP Q92608
D	351	UNK	PRO	conflict	UNP Q92608
D	377	UNK	HIS	conflict	UNP Q92608
D	378	UNK	LEU	conflict	UNP Q92608
D	379	UNK	VAL	conflict	UNP Q92608
D	380	UNK	ASP	conflict	UNP Q92608
D	381	UNK	ARG	conflict	UNP Q92608
D	382	UNK	THR	conflict	UNP Q92608
D	383	UNK	THR	conflict	UNP Q92608
D	384	UNK	VAL	conflict	UNP Q92608
D	385	UNK	VAL	conflict	UNP Q92608
D	386	UNK	ALA	conflict	UNP Q92608
D	387	UNK	ARG	conflict	UNP Q92608
D	388	UNK	LYS	conflict	UNP Q92608
D	389	UNK	LEU	conflict	UNP Q92608
D	609A	UNK	LYS	conflict	UNP Q92608
D	609B	UNK	LEU	conflict	UNP Q92608
D	609C	UNK	THR	conflict	UNP Q92608
D	609D	UNK	GLN	conflict	UNP Q92608
D	609E	UNK	ASN	conflict	UNP Q92608
D	609F	UNK	VAL	conflict	UNP Q92608
D	609G	UNK	GLY	conflict	UNP Q92608
D	609H	UNK	LEU	conflict	UNP Q92608
D	609I	UNK	LEU	conflict	UNP Q92608
D	609J	UNK	GLY	conflict	UNP Q92608
D	609K	UNK	LEU	conflict	UNP Q92608
D	609L	UNK	LEU	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	609M	UNK	LYS	conflict	UNP Q92608
D	609N	UNK	TRP	conflict	UNP Q92608
D	609O	UNK	ARG	conflict	UNP Q92608
D	609P	UNK	MET	conflict	UNP Q92608
D	609Q	UNK	LYS	conflict	UNP Q92608
D	609R	UNK	PRO	conflict	UNP Q92608
D	609S	UNK	GLN	conflict	UNP Q92608
D	609T	UNK	LEU	conflict	UNP Q92608
D	609U	UNK	LEU	conflict	UNP Q92608
D	609V	UNK	GLN	conflict	UNP Q92608
D	609W	UNK	GLU	conflict	UNP Q92608
D	609X	UNK	ASN	conflict	UNP Q92608
D	609Y	UNK	LEU	conflict	UNP Q92608
D	609Z	UNK	GLU	conflict	UNP Q92608
D	610A	UNK	LYS	conflict	UNP Q92608
D	610B	UNK	LEU	conflict	UNP Q92608
D	610C	UNK	LYS	conflict	UNP Q92608
D	610D	UNK	ILE	conflict	UNP Q92608
D	610E	UNK	VAL	conflict	UNP Q92608
D	610F	UNK	ASP	conflict	UNP Q92608
D	626	UNK	GLY	conflict	UNP Q92608
D	627	UNK	GLU	conflict	UNP Q92608
D	628	UNK	GLU	conflict	UNP Q92608
D	629	UNK	VAL	conflict	UNP Q92608
D	630	UNK	VAL	conflict	UNP Q92608
D	631	UNK	LYS	conflict	UNP Q92608
D	632	UNK	PHE	conflict	UNP Q92608
D	633	UNK	LEU	conflict	UNP Q92608
D	634	UNK	GLN	conflict	UNP Q92608
D	635	UNK	ASP	conflict	UNP Q92608
D	636	UNK	THR	conflict	UNP Q92608
D	637	UNK	LEU	conflict	UNP Q92608
D	638	UNK	ASP	conflict	UNP Q92608
D	639	UNK	ALA	conflict	UNP Q92608
D	640	UNK	LEU	conflict	UNP Q92608
D	641	UNK	PHE	conflict	UNP Q92608
D	642	UNK	ASN	conflict	UNP Q92608
D	679A	UNK	HIS	conflict	UNP Q92608
D	679B	UNK	PHE	conflict	UNP Q92608
D	679C	UNK	ASN	conflict	UNP Q92608
D	679D	UNK	THR	conflict	UNP Q92608
D	679E	UNK	VAL	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	679F	UNK	LEU	conflict	UNP Q92608
D	679G	UNK	GLU	conflict	UNP Q92608
D	679H	UNK	ALA	conflict	UNP Q92608
D	679I	UNK	TYR	conflict	UNP Q92608
D	679J	UNK	ILE	conflict	UNP Q92608
D	679K	UNK	GLN	conflict	UNP Q92608
D	679L	UNK	GLN	conflict	UNP Q92608
D	679M	UNK	HIS	conflict	UNP Q92608
D	679N	UNK	PHE	conflict	UNP Q92608
D	679O	UNK	SER	conflict	UNP Q92608
D	679P	UNK	ALA	conflict	UNP Q92608
D	679Q	UNK	THR	conflict	UNP Q92608
D	688	UNK	LEU	conflict	UNP Q92608
D	689	UNK	ALA	conflict	UNP Q92608
D	690	UNK	TYR	conflict	UNP Q92608
D	691	UNK	LYS	conflict	UNP Q92608
D	692	UNK	LYS	conflict	UNP Q92608
D	693	UNK	LEU	conflict	UNP Q92608
D	694	UNK	MET	conflict	UNP Q92608
D	695	UNK	THR	conflict	UNP Q92608
D	696	UNK	VAL	conflict	UNP Q92608
D	697	UNK	LEU	conflict	UNP Q92608
D	698	UNK	LYS	conflict	UNP Q92608
D	699	UNK	THR	conflict	UNP Q92608
D	700	UNK	TYR	conflict	UNP Q92608
D	701	UNK	LEU	conflict	UNP Q92608
D	702	UNK	ASP	conflict	UNP Q92608
D	703	UNK	THR	conflict	UNP Q92608
D	704	UNK	SER	conflict	UNP Q92608
D	705	UNK	SER	conflict	UNP Q92608
D	706	UNK	ARG	conflict	UNP Q92608
D	707	UNK	GLY	conflict	UNP Q92608
D	708	UNK	GLU	conflict	UNP Q92608
D	709	UNK	GLN	conflict	UNP Q92608
D	710	UNK	CYS	conflict	UNP Q92608
D	711	UNK	GLU	conflict	UNP Q92608
D	712	UNK	PRO	conflict	UNP Q92608
D	713	UNK	ILE	conflict	UNP Q92608
D	714	UNK	LEU	conflict	UNP Q92608
D	715	UNK	ARG	conflict	UNP Q92608
D	716	UNK	THR	conflict	UNP Q92608
D	717	UNK	LEU	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	718	UNK	LYS	conflict	UNP Q92608
D	719	UNK	ALA	conflict	UNP Q92608
D	720	UNK	LEU	conflict	UNP Q92608
D	721	UNK	GLU	conflict	UNP Q92608
D	722	UNK	TYR	conflict	UNP Q92608
D	723	UNK	VAL	conflict	UNP Q92608
D	724	UNK	PHE	conflict	UNP Q92608
D	725	UNK	LYS	conflict	UNP Q92608
D	726	UNK	PHE	conflict	UNP Q92608
D	727	UNK	ILE	conflict	UNP Q92608
D	728	UNK	VAL	conflict	UNP Q92608
D	729	UNK	ARG	conflict	UNP Q92608
D	730	UNK	SER	conflict	UNP Q92608
D	731	UNK	ARG	conflict	UNP Q92608
D	732	UNK	THR	conflict	UNP Q92608
D	733	UNK	LEU	conflict	UNP Q92608
D	734	UNK	PHE	conflict	UNP Q92608
D	735	UNK	SER	conflict	UNP Q92608
D	736	UNK	GLN	conflict	UNP Q92608
D	742	UNK	LEU	conflict	UNP Q92608
D	743	UNK	TYR	conflict	UNP Q92608
D	744	UNK	GLU	conflict	UNP Q92608
D	745	UNK	GLY	conflict	UNP Q92608
D	746	UNK	LYS	conflict	UNP Q92608
D	747	UNK	GLU	conflict	UNP Q92608
D	748	UNK	GLN	conflict	UNP Q92608
D	749	UNK	MET	conflict	UNP Q92608
D	750	UNK	GLU	conflict	UNP Q92608
D	751	UNK	PHE	conflict	UNP Q92608
D	752	UNK	GLU	conflict	UNP Q92608
D	753	UNK	GLU	conflict	UNP Q92608
D	754	UNK	SER	conflict	UNP Q92608
D	755	UNK	MET	conflict	UNP Q92608
D	756	UNK	ARG	conflict	UNP Q92608
D	757	UNK	ARG	conflict	UNP Q92608
D	758	UNK	LEU	conflict	UNP Q92608
D	759	UNK	PHE	conflict	UNP Q92608
D	760	UNK	GLU	conflict	UNP Q92608
D	761	UNK	SER	conflict	UNP Q92608
D	762	UNK	ILE	conflict	UNP Q92608
D	763	UNK	ASN	conflict	UNP Q92608
D	764	UNK	ASN	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	765	UNK	LEU	conflict	UNP Q92608
D	766	UNK	MET	conflict	UNP Q92608
D	767	UNK	LYS	conflict	UNP Q92608
D	768	UNK	SER	conflict	UNP Q92608
D	769	UNK	GLN	conflict	UNP Q92608
D	770	UNK	TYR	conflict	UNP Q92608
D	771	UNK	LYS	conflict	UNP Q92608
D	772	UNK	THR	conflict	UNP Q92608
D	773	UNK	THR	conflict	UNP Q92608
D	774	UNK	ILE	conflict	UNP Q92608
D	775	UNK	LEU	conflict	UNP Q92608
D	776	UNK	LEU	conflict	UNP Q92608
D	777	UNK	GLN	conflict	UNP Q92608
D	778	UNK	VAL	conflict	UNP Q92608
D	779	UNK	ALA	conflict	UNP Q92608
D	780	UNK	ALA	conflict	UNP Q92608
D	781	UNK	LEU	conflict	UNP Q92608
D	782	UNK	LYS	conflict	UNP Q92608
D	783	UNK	TYR	conflict	UNP Q92608
D	784	UNK	ILE	conflict	UNP Q92608
D	785	UNK	PRO	conflict	UNP Q92608
D	786	UNK	SER	conflict	UNP Q92608
D	787	UNK	VAL	conflict	UNP Q92608
D	788	UNK	LEU	conflict	UNP Q92608
D	789	UNK	HIS	conflict	UNP Q92608
D	790	UNK	ASP	conflict	UNP Q92608
D	791	UNK	VAL	conflict	UNP Q92608
D	792	UNK	GLU	conflict	UNP Q92608
D	793	UNK	MET	conflict	UNP Q92608
D	794	UNK	VAL	conflict	UNP Q92608
D	795	UNK	PHE	conflict	UNP Q92608
D	796	UNK	ASP	conflict	UNP Q92608
D	797	UNK	ALA	conflict	UNP Q92608
D	798	UNK	LYS	conflict	UNP Q92608
D	799	UNK	LEU	conflict	UNP Q92608
D	801	UNK	LEU	conflict	UNP Q92608
D	802	UNK	SER	conflict	UNP Q92608
D	803	UNK	GLN	conflict	UNP Q92608
D	804	UNK	LEU	conflict	UNP Q92608
D	805	UNK	LEU	conflict	UNP Q92608
D	806	UNK	TYR	conflict	UNP Q92608
D	807	UNK	GLU	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	808	UNK	PHE	conflict	UNP Q92608
D	809	UNK	TYR	conflict	UNP Q92608
D	810	UNK	THR	conflict	UNP Q92608
D	811	UNK	CYS	conflict	UNP Q92608
D	812	UNK	ILE	conflict	UNP Q92608
D	813	UNK	PRO	conflict	UNP Q92608
D	814	UNK	PRO	conflict	UNP Q92608
D	815	UNK	VAL	conflict	UNP Q92608
D	816	UNK	LYS	conflict	UNP Q92608
D	817	UNK	LEU	conflict	UNP Q92608
D	818	UNK	GLN	conflict	UNP Q92608
D	819	UNK	LYS	conflict	UNP Q92608
D	820	UNK	GLN	conflict	UNP Q92608
D	821	UNK	LYS	conflict	UNP Q92608
D	822	UNK	VAL	conflict	UNP Q92608
D	823	UNK	GLN	conflict	UNP Q92608
D	824	UNK	SER	conflict	UNP Q92608
D	825	UNK	MET	conflict	UNP Q92608
D	826	UNK	ASN	conflict	UNP Q92608
D	827	UNK	GLU	conflict	UNP Q92608
D	828	UNK	ILE	conflict	UNP Q92608
D	829	UNK	VAL	conflict	UNP Q92608
D	830	UNK	GLN	conflict	UNP Q92608
D	831	UNK	SER	conflict	UNP Q92608
D	832	UNK	ASN	conflict	UNP Q92608
D	833	UNK	LEU	conflict	UNP Q92608
D	834	UNK	PHE	conflict	UNP Q92608
D	835	UNK	LYS	conflict	UNP Q92608
D	836	UNK	LYS	conflict	UNP Q92608
D	837	UNK	GLN	conflict	UNP Q92608
D	838	UNK	GLU	conflict	UNP Q92608
D	839	UNK	CYS	conflict	UNP Q92608
D	840	UNK	ARG	conflict	UNP Q92608
D	841	UNK	ASP	conflict	UNP Q92608
D	842	UNK	ILE	conflict	UNP Q92608
D	843	UNK	LEU	conflict	UNP Q92608
D	844	UNK	LEU	conflict	UNP Q92608
D	845	UNK	PRO	conflict	UNP Q92608
D	846	UNK	VAL	conflict	UNP Q92608
D	847	UNK	ILE	conflict	UNP Q92608
D	848	UNK	THR	conflict	UNP Q92608
D	849	UNK	LYS	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	850	UNK	GLU	conflict	UNP Q92608
D	851	UNK	LEU	conflict	UNP Q92608
D	852	UNK	LYS	conflict	UNP Q92608
D	853	UNK	GLU	conflict	UNP Q92608
D	854	UNK	LEU	conflict	UNP Q92608
D	855	UNK	LEU	conflict	UNP Q92608
D	856	UNK	GLU	conflict	UNP Q92608
D	857	UNK	GLN	conflict	UNP Q92608
D	858	UNK	LYS	conflict	UNP Q92608
D	859	UNK	ASP	conflict	UNP Q92608
D	860	UNK	ASP	conflict	UNP Q92608
D	861	UNK	MET	conflict	UNP Q92608
D	862	UNK	GLN	conflict	UNP Q92608
D	863	UNK	HIS	conflict	UNP Q92608
D	864	UNK	GLN	conflict	UNP Q92608
D	865	UNK	VAL	conflict	UNP Q92608
D	866	UNK	LEU	conflict	UNP Q92608
D	867	UNK	GLU	conflict	UNP Q92608
D	868	UNK	ARG	conflict	UNP Q92608
D	869	UNK	LYS	conflict	UNP Q92608
D	870	UNK	TYR	conflict	UNP Q92608
D	871	UNK	CYS	conflict	UNP Q92608
D	872	UNK	VAL	conflict	UNP Q92608
D	873	UNK	GLU	conflict	UNP Q92608
D	874	UNK	LEU	conflict	UNP Q92608
D	875	UNK	LEU	conflict	UNP Q92608
D	876	UNK	ASN	conflict	UNP Q92608
D	877	UNK	SER	conflict	UNP Q92608
D	878	UNK	ILE	conflict	UNP Q92608
D	879	UNK	LEU	conflict	UNP Q92608
D	880	UNK	GLU	conflict	UNP Q92608
D	881	UNK	VAL	conflict	UNP Q92608
D	882	UNK	LEU	conflict	UNP Q92608
D	883	UNK	SER	conflict	UNP Q92608
D	884	UNK	TYR	conflict	UNP Q92608
D	885	UNK	GLN	conflict	UNP Q92608
D	886	UNK	ASP	conflict	UNP Q92608
D	887	UNK	ALA	conflict	UNP Q92608
D	888	UNK	ALA	conflict	UNP Q92608
D	889	UNK	PHE	conflict	UNP Q92608
D	890	UNK	THR	conflict	UNP Q92608
D	891	UNK	TYR	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	892	UNK	HIS	conflict	UNP Q92608
D	896	UNK	HIS	conflict	UNP Q92608
D	897	UNK	ILE	conflict	UNP Q92608
D	898	UNK	GLN	conflict	UNP Q92608
D	899	UNK	GLU	conflict	UNP Q92608
D	900	UNK	ILE	conflict	UNP Q92608
D	901	UNK	MET	conflict	UNP Q92608
D	902	UNK	VAL	conflict	UNP Q92608
D	903	UNK	GLN	conflict	UNP Q92608
D	904	UNK	LEU	conflict	UNP Q92608
D	905	UNK	LEU	conflict	UNP Q92608
D	906	UNK	ARG	conflict	UNP Q92608
D	907	UNK	THR	conflict	UNP Q92608
D	908	UNK	VAL	conflict	UNP Q92608
D	909	UNK	ASN	conflict	UNP Q92608
D	910	UNK	ARG	conflict	UNP Q92608
D	911	UNK	THR	conflict	UNP Q92608
D	912	UNK	VAL	conflict	UNP Q92608
D	913	UNK	ILE	conflict	UNP Q92608
D	914	UNK	THR	conflict	UNP Q92608
D	915	UNK	MET	conflict	UNP Q92608
D	916	UNK	GLY	conflict	UNP Q92608
D	917	UNK	ARG	conflict	UNP Q92608
D	918	UNK	ASP	conflict	UNP Q92608
D	919	UNK	HIS	conflict	UNP Q92608
D	920	UNK	ILE	conflict	UNP Q92608
D	921	UNK	LEU	conflict	UNP Q92608
D	922	UNK	ILE	conflict	UNP Q92608
D	923	UNK	SER	conflict	UNP Q92608
D	934	UNK	HIS	conflict	UNP Q92608
D	935	UNK	PHE	conflict	UNP Q92608
D	936	UNK	VAL	conflict	UNP Q92608
D	937	UNK	ALA	conflict	UNP Q92608
D	938	UNK	CYS	conflict	UNP Q92608
D	939	UNK	MET	conflict	UNP Q92608
D	940	UNK	THR	conflict	UNP Q92608
D	941	UNK	ALA	conflict	UNP Q92608
D	942	UNK	ILE	conflict	UNP Q92608
D	943	UNK	LEU	conflict	UNP Q92608
D	944	UNK	ASN	conflict	UNP Q92608
D	945	UNK	GLN	conflict	UNP Q92608
D	946	UNK	MET	conflict	UNP Q92608

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Chain	Residue	Modelled	Actual	Comment	Reference
D	947	UNK	GLY	conflict	UNP Q92608
D	948	UNK	ASP	conflict	UNP Q92608
D	949	UNK	GLN	conflict	UNP Q92608
D	950	UNK	HIS	conflict	UNP Q92608
D	951	UNK	TYR	conflict	UNP Q92608
D	952	UNK	SER	conflict	UNP Q92608
D	953	UNK	PHE	conflict	UNP Q92608
D	954	UNK	TYR	conflict	UNP Q92608
D	955	UNK	ILE	conflict	UNP Q92608
D	956	UNK	GLU	conflict	UNP Q92608
D	957	UNK	THR	conflict	UNP Q92608
D	958	UNK	PHE	conflict	UNP Q92608
D	959	UNK	GLN	conflict	UNP Q92608
D	960	UNK	THR	conflict	UNP Q92608

- Molecule 2 is a protein called Engulfment and cell motility protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	680	Total	C	N	O	S	0	0
			5054	3269	841	917	27		
2	E	680	Total	C	N	O	S	0	0
			5056	3270	840	917	29		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	139	LEU	ARG	conflict	UNP Q92556
E	139	LEU	ARG	conflict	UNP Q92556

- Molecule 3 is a protein called Ras-related C3 botulinum toxin substrate 1.

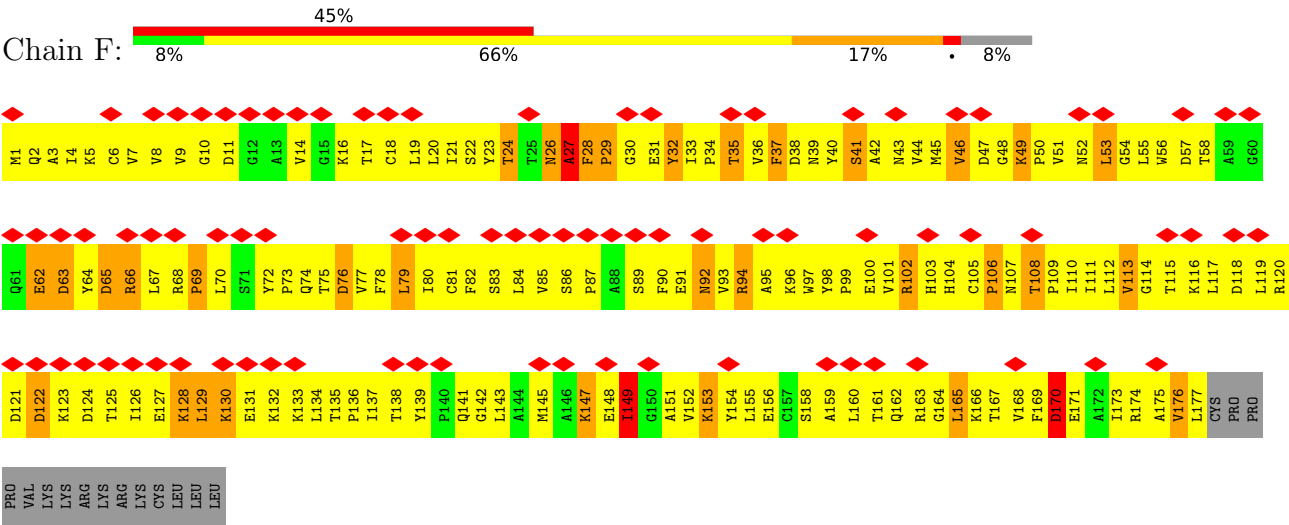
Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	177	Total	C	N	O	S	0	0
			1383	889	228	258	8		
3	F	177	Total	C	N	O	S	0	0
			1383	889	228	258	8		





R1216	L1156	H1031	F968	X878	X787	UNK	L568	R508	V448	X331	X257
E1217	L1157	L1032	L969	X881	X788	UNK	P869	F509	I449	X332	X258
M1218	M158	A1033				UNK	S570	X510	M450	X333	X259
E1159	E1159	V1034	T972	X881	X789	UNK	Y571	F511	C451	X334	X260
C1160	C1160	A1035		X884	X793	UNK	R572	R512	C452	X339	X261
A1161	A1161	F1036	M975	X885	X794	UNK	H573	H513	C453	X340	X262
A1162	A1162	T1037	F976	X886	X795	UNK	H574	H514	A454	X341	X263
E1163	E1163	T1038	K977	X887	X796	UNK	H575	R515	E455	X342	X264
E1164	E1164	Q1039	L979	X888	X797	UNK	E576	S516	D456	X345	X266
P1165	P1165	Q1040	L980	X889	X798	UNK	N577	S517	G457	X346	X267
P1166	P1166	S1041	G981	X890	X799	UNK	L578	L517	K458	X347	X268
L1167	L1167	Q1043	K982	X891	X801	UNK	GLY	E518	L460	X347	X269
A1168	A1168	Q1044	X892	X802	X705	UNK	ALA	E519	P461	X350	X270
D1169	D1169	L1044	X893	X803	X706	UNK	THR	E520	M462	X351	X271
L1170	L1170	E1045	Y984	X805	X709	UNK	LEU	K520	M463	X377	X272
T1171	T1171	Q1046	Y985	X806	X710	UNK	SER	D521	I464	X380	X273
A1172	A1172	F1047	D988	X807	X711	UNK	ARG	K522	C465	X381	X274
N1173	N1173	S1048	M989	X810	X712	UNK	SER	G523	V466	X382	X275
F1174	F1174	H1049	M990	X814	X713	UNK	SER	K524	G467	X383	X276
V1175	V1175	A1050	M991	X818	X714	UNK	SER	K525	A468	X384	X277
D1235	D1235	K1051	A991	X819	X715	UNK	VAL	E526	D470	X385	X278
N1176	N1176	Y1052	M992	X820	X716	UNK	G590	N527	D471	X386	X279
L1177	L1177	N1053	S993	X821	X717	UNK	L592	A528	P472	X387	X280
P1178	P1178	Y1054	M994	X822	X718	UNK	S593	M529	M473	X388	X281
C1234	C1234	K1054	M995	X823	X719	UNK	V594	S530	M474	X389	X282
N1179	N1179	L1055	G996	X824	X720	UNK	S595	E531	E475	X389	X284
G1180	G1180	L1056	N997	X825	X721	UNK	S596	K532	Y476	P414	X285
L1181	L1181	K1057	R998	X826	X722	UNK	D598	K533	R477	M418	X286
E1182	E1182	N1058	F999	X829	X730	UNK	V599	E537	S478	P419	X287
E1183	E1183	K1058	F1000	X832	X731	UNK	F600	E538	G420	G420	X288
K1184	K1184	Y1059	F1001	X833	X732	UNK	S601	D539	Y481	T429	X289
L1185	L1185	D1061	L1001	X834	X733	UNK	I602	G539	Y482	D421	X290
L1186	L1186	M1062	R1002	X835	X746	UNK	T604	T541	Q483	M424	X291
D1187	D1187	R1063	A1003	X836	X747	UNK	L605	L542	V484	D425	X292
Y1188	Y1188	R1064	A1004	X837	X750	UNK	C607	D544	K485	I426	X293
R1189	R1189	L1065	N1005	X842	X757	UNK	S608	G545	Y427	I428	X294
G1190	G1190	I1066	N1006	X844	X761	UNK	T609	Q486	T429	L431	X295
V1191	V1191	Y1067	F1007	X845	X768	UNK	UNK	P487	L430	Q432	X296
M1192	M1192	K1067	A1008	X846	X770	UNK	UNK	R488	L431	G433	X297
T1193	T1193	S1069	E1009	X847	X771	UNK	UNK	H489	Q432	D434	X298
E1194	E1194	I1070	T1010	X851	X772	UNK	UNK	V490	F435	X301	X299
A1195	A1195	R1071	M1011	X854	X773	UNK	UNK	E491	D436	X303	X300
S1196	S1196	D1072	N1012	X855	X774	UNK	UNK	L492	K437	X304	X301
R1197	R1197	M1073	Q1013	X856	X775	UNK	UNK	L552	Y438	X304	X302
D1198	D1198	Y1074	K1014	X857	X776	UNK	UNK	G554	M439	X304	X303
N1199	N1199	F1075	F1015	X858	X777	UNK	UNK	D555	V497	X318	X304
R1200	R1200	Y1076	L1016	X859	X778	UNK	UNK	S556	P498	X319	X304
M1201	M1201	K1076	E1017	X865	X779	UNK	UNK	K557	T441	X320	X304
S1202	S1202	L1077	E1018	X866	X780	UNK	UNK	E501	T442	X322	X304
C1203	C1203	N1080	T1019	X869	X781	UNK	UNK	M502	R444	X323	X304
T1204	T1204	K1081	N1020	X870	X782	UNK	UNK	Q503	V446	X324	X304
V1205	V1205	I1082	F1021	X874	X783	UNK	UNK	I505	E447	X325	X304
N1206	N1206	C1083	N1022			UNK	UNK	H506		X326	X304
L1207	L1207	F1084	F1023			UNK	UNK	L507		X329	X304
L1208	L1208	Y1085	Q1024			UNK	UNK			X330	X304
N1209	N1209	Y1149	Y1086			UNK	UNK				X304
M1210	M1210	M1150	L1025			UNK	UNK				X304
F1211	F1211	Q1151	M1026			UNK	UNK				X304
Y1211	Y1211	L1152	N1027			UNK	UNK				X304
K1212	K1212	T1272	M1028			UNK	UNK				X304
T1272	T1272	D1213	Y1089			UNK	UNK				X304
H1273	H1273	Y1089	V1029			UNK	UNK				X304
N1214	N1214	E1154	F1030			UNK	UNK				X304
R1274	R1274	S1155				UNK	UNK				X304
Q1275	Q1275					UNK	UNK				X304





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	245763	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.174	Depositor
Minimum map value	-0.072	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.004	Depositor
Recommended contour level	0.04	Depositor
Map size (Å)	403.25998, 403.25998, 403.25998	wwPDB
Map dimensions	282, 282, 282	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.43, 1.43, 1.43	Depositor

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	0.99	4/8364 (0.0%)	1.27	63/11318 (0.6%)
1	D	0.99	4/8364 (0.0%)	1.27	65/11318 (0.6%)
2	B	0.20	0/5147	0.47	0/6959
2	E	0.58	3/5149 (0.1%)	0.82	11/6961 (0.2%)
3	C	0.80	1/1413 (0.1%)	1.39	16/1922 (0.8%)
3	F	0.80	1/1413 (0.1%)	1.39	16/1922 (0.8%)
All	All	0.82	13/29850 (0.0%)	1.11	171/40400 (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	A	0	33
1	D	0	33
2	B	0	2
2	E	0	8
3	C	0	2
3	F	0	3
All	All	0	81

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	608	LEU	N-CA	-9.14	1.33	1.46
1	D	1474	LYS	C-N	-7.61	1.26	1.33
1	A	1474	LYS	C-N	-7.58	1.26	1.33
1	A	1294	TRP	CB-CG	-5.94	1.31	1.50
1	A	1327	LYS	N-CA	-5.92	1.39	1.46
1	D	1294	TRP	CB-CG	-5.91	1.31	1.50
1	D	1327	LYS	N-CA	-5.86	1.39	1.46
1	A	1283	THR	CB-CG2	-5.27	1.35	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	107	ASN	C-N	5.27	1.41	1.33
3	F	107	ASN	C-N	5.26	1.41	1.33
1	D	1283	THR	CB-CG2	-5.25	1.35	1.52
2	E	661	GLU	CB-CG	-5.21	1.36	1.52
2	E	583	HIS	C-N	-5.15	1.25	1.33

All (171) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	1521	THR	CA-C-N	19.66	152.51	121.83
1	D	1521	THR	C-N-CA	19.66	152.51	121.83
1	A	1521	THR	CA-C-N	19.65	152.49	121.83
1	A	1521	THR	C-N-CA	19.65	152.49	121.83
1	A	1300	LEU	CA-CB-CG	-10.72	78.78	116.30
1	D	1300	LEU	CA-CB-CG	-10.72	78.78	116.30
2	E	578	ARG	CA-C-N	-9.95	106.08	122.21
2	E	578	ARG	C-N-CA	-9.95	106.08	122.21
3	C	27	ALA	CA-C-N	9.71	145.49	121.80
3	C	27	ALA	C-N-CA	9.71	145.49	121.80
3	F	27	ALA	CA-C-N	9.70	145.48	121.80
3	F	27	ALA	C-N-CA	9.70	145.48	121.80
3	C	32	TYR	CA-C-N	-9.45	116.18	122.60
3	C	32	TYR	C-N-CA	-9.45	116.18	122.60
3	F	32	TYR	CA-C-N	-9.40	116.21	122.60
3	F	32	TYR	C-N-CA	-9.40	116.21	122.60
1	A	1326	ALA	CA-C-N	-9.10	107.83	122.66
1	A	1326	ALA	C-N-CA	-9.10	107.83	122.66
1	D	1326	ALA	CA-C-N	-9.09	107.84	122.66
1	D	1326	ALA	C-N-CA	-9.09	107.84	122.66
3	F	26	ASN	N-CA-CB	-8.66	104.29	114.17
3	C	26	ASN	N-CA-CB	-8.63	104.34	114.17
2	E	665	TRP	CA-CB-CG	-8.57	97.32	113.60
1	A	440	LYS	N-CA-C	-8.26	102.80	113.12
1	D	440	LYS	N-CA-C	-8.23	102.83	113.12
2	E	699	LEU	CA-CB-CG	-8.05	88.12	116.30
1	D	414	PRO	N-CA-CB	8.03	111.68	103.25
1	A	414	PRO	N-CA-CB	7.97	111.62	103.25
1	A	1441	ARG	CB-CG-CD	7.86	129.38	111.30
1	D	1441	ARG	CB-CG-CD	7.86	129.37	111.30
2	E	608	LEU	N-CA-C	-7.86	92.45	109.81
1	D	1360	VAL	CA-C-N	-7.41	110.16	122.17
1	D	1360	VAL	C-N-CA	-7.41	110.16	122.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1360	VAL	CA-C-N	-7.40	110.18	122.17
1	A	1360	VAL	C-N-CA	-7.40	110.18	122.17
1	D	1527	LEU	N-CA-C	-7.11	104.24	113.12
1	A	1527	LEU	N-CA-C	-7.09	104.26	113.12
1	D	207	PRO	N-CA-CB	6.92	110.62	103.00
2	E	669	LEU	CA-CB-CG	-6.91	92.13	116.30
1	A	207	PRO	N-CA-CB	6.87	110.56	103.00
1	D	1466	ARG	CA-CB-CG	-6.64	100.81	114.10
1	A	1466	ARG	CA-CB-CG	-6.63	100.84	114.10
2	E	556	LEU	CA-C-N	-6.59	113.56	122.72
2	E	556	LEU	C-N-CA	-6.59	113.56	122.72
3	F	49	LYS	N-CA-C	-6.58	95.26	109.81
3	C	49	LYS	N-CA-C	-6.57	95.30	109.81
1	A	175	PRO	N-CA-CB	6.56	110.22	103.00
1	D	175	PRO	N-CA-CB	6.56	110.22	103.00
3	F	102	ARG	CA-C-N	6.47	131.51	120.71
3	F	102	ARG	C-N-CA	6.47	131.51	120.71
3	C	102	ARG	CA-C-N	6.47	131.51	120.71
3	C	102	ARG	C-N-CA	6.47	131.51	120.71
1	D	1220	TYR	CA-CB-CG	6.40	125.42	113.90
1	A	1245	LEU	CA-CB-CG	-6.34	94.12	116.30
1	A	1220	TYR	CA-CB-CG	6.33	125.30	113.90
1	D	1245	LEU	CA-CB-CG	-6.33	94.16	116.30
1	D	1368	TYR	CA-CB-CG	-6.30	102.56	113.90
1	A	1368	TYR	CA-CB-CG	-6.29	102.59	113.90
1	A	1310	MET	CB-CG-SD	6.27	131.50	112.70
1	D	1310	MET	CB-CG-SD	6.27	131.50	112.70
1	D	150	SER	CA-C-N	-6.26	112.31	122.26
1	D	150	SER	C-N-CA	-6.26	112.31	122.26
1	A	150	SER	CA-C-N	-6.25	112.33	122.26
1	A	150	SER	C-N-CA	-6.25	112.33	122.26
3	F	153	LYS	N-CA-CB	6.12	120.94	110.65
3	C	153	LYS	N-CA-CB	6.10	120.90	110.65
1	D	1304	LEU	CA-CB-CG	-6.10	94.94	116.30
1	A	1304	LEU	CA-CB-CG	-6.09	94.97	116.30
3	C	149	ILE	CB-CA-C	-5.99	101.31	111.37
3	F	149	ILE	CB-CA-C	-5.99	101.31	111.37
2	E	694	ILE	CA-C-N	-5.94	112.32	120.28
2	E	694	ILE	C-N-CA	-5.94	112.32	120.28
1	D	1294	TRP	CA-CB-CG	-5.87	102.45	113.60
1	A	1294	TRP	CA-CB-CG	-5.86	102.47	113.60
3	F	30	GLY	N-CA-C	5.86	127.07	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	30	GLY	N-CA-C	5.84	127.02	113.18
1	D	510	MET	CB-CG-SD	5.83	130.19	112.70
1	A	1102	GLU	CA-CB-CG	5.82	125.75	114.10
1	A	510	MET	CB-CG-SD	5.81	130.13	112.70
1	D	1102	GLU	CA-CB-CG	5.81	125.72	114.10
3	F	107	ASN	CA-C-N	5.80	130.31	121.03
3	F	107	ASN	C-N-CA	5.80	130.31	121.03
1	D	1516	TYR	CA-CB-CG	-5.78	103.49	113.90
3	C	107	ASN	CA-C-N	5.78	130.28	121.03
3	C	107	ASN	C-N-CA	5.78	130.28	121.03
1	A	1516	TYR	CA-CB-CG	-5.76	103.52	113.90
1	A	113	ARG	N-CA-C	-5.70	105.16	111.71
1	D	419	PRO	N-CA-CB	5.69	109.22	103.25
1	A	419	PRO	N-CA-CB	5.65	109.18	103.25
1	A	1280	LEU	CA-CB-CG	5.65	136.06	116.30
1	D	1280	LEU	CA-CB-CG	5.65	136.06	116.30
1	A	418	MET	O-C-N	5.64	124.12	121.53
1	D	113	ARG	N-CA-C	-5.64	105.23	111.71
1	D	418	MET	O-C-N	5.63	124.12	121.53
1	D	1469	PHE	CA-C-N	-5.58	115.68	123.10
1	D	1469	PHE	C-N-CA	-5.58	115.68	123.10
1	D	1022	GLU	CA-C-N	-5.55	114.23	122.56
1	D	1022	GLU	C-N-CA	-5.55	114.23	122.56
1	A	1022	GLU	CA-C-N	-5.54	114.25	122.56
1	A	1022	GLU	C-N-CA	-5.54	114.25	122.56
1	D	1589	LYS	CA-CB-CG	-5.53	103.03	114.10
1	A	1469	PHE	CA-C-N	-5.53	115.75	123.10
1	A	1469	PHE	C-N-CA	-5.53	115.75	123.10
1	A	1474	LYS	CA-C-N	-5.51	115.25	122.74
1	A	1474	LYS	C-N-CA	-5.51	115.25	122.74
1	A	1589	LYS	CA-CB-CG	-5.51	103.09	114.10
1	D	1474	LYS	CA-C-N	-5.50	115.26	122.74
1	D	1474	LYS	C-N-CA	-5.50	115.26	122.74
1	D	1246	LEU	CA-CB-CG	-5.49	97.09	116.30
1	D	1374	PHE	CA-CB-CG	5.49	119.29	113.80
1	A	1246	LEU	CA-CB-CG	-5.48	97.11	116.30
1	A	1374	PHE	CA-CB-CG	5.45	119.25	113.80
1	D	1432	ASN	CA-C-N	-5.45	112.51	122.38
1	D	1432	ASN	C-N-CA	-5.45	112.51	122.38
1	D	979	LEU	CA-CB-CG	-5.44	97.26	116.30
1	A	979	LEU	CA-CB-CG	-5.44	97.27	116.30
1	A	1432	ASN	CA-C-N	-5.43	112.55	122.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1432	ASN	C-N-CA	-5.43	112.55	122.38
3	F	153	LYS	N-CA-C	-5.43	101.18	109.65
1	A	1222	ARG	CB-CG-CD	5.43	123.78	111.30
3	C	153	LYS	N-CA-C	-5.42	101.20	109.65
1	D	1222	ARG	CB-CG-CD	5.41	123.75	111.30
1	A	1238	THR	CA-C-N	-5.39	111.08	121.58
1	A	1238	THR	C-N-CA	-5.39	111.08	121.58
1	D	1238	THR	CA-C-N	-5.38	111.08	121.58
1	D	1238	THR	C-N-CA	-5.38	111.08	121.58
3	C	165	LEU	CA-CB-CG	5.35	135.02	116.30
3	F	165	LEU	CA-CB-CG	5.33	134.97	116.30
1	D	1002	ARG	CG-CD-NE	-5.29	100.36	112.00
1	A	1002	ARG	CG-CD-NE	-5.28	100.38	112.00
1	A	1473	TYR	CA-CB-CG	-5.25	104.45	113.90
1	D	1250	LEU	CA-CB-CG	-5.25	97.93	116.30
1	A	1250	LEU	CA-CB-CG	-5.24	97.95	116.30
1	D	1443	HIS	CA-C-N	-5.24	115.15	123.12
1	D	1443	HIS	C-N-CA	-5.24	115.15	123.12
1	D	1473	TYR	CA-CB-CG	-5.24	104.47	113.90
1	A	1049	HIS	N-CA-C	-5.24	107.27	113.97
1	A	1443	HIS	CA-C-N	-5.23	115.17	123.12
1	A	1443	HIS	C-N-CA	-5.23	115.17	123.12
2	E	545	LEU	CA-CB-CG	-5.23	98.00	116.30
1	A	1371	ARG	N-CA-C	-5.22	107.04	113.41
1	D	1049	HIS	N-CA-C	-5.22	107.29	113.97
1	D	1371	ARG	N-CA-C	-5.21	107.05	113.41
1	A	1239	GLU	CA-CB-CG	-5.21	103.68	114.10
1	D	1317	LEU	CA-CB-CG	-5.20	98.10	116.30
1	A	1317	LEU	CA-CB-CG	-5.19	98.14	116.30
1	D	1239	GLU	CA-CB-CG	-5.17	103.75	114.10
1	A	1520	GLU	N-CA-C	-5.17	108.24	114.75
1	D	1026	TRP	CA-CB-CG	-5.16	103.79	113.60
1	D	1520	GLU	N-CA-C	-5.16	108.25	114.75
1	A	1026	TRP	CA-CB-CG	-5.15	103.81	113.60
1	D	1444	TYR	CA-CB-CG	-5.14	104.65	113.90
1	A	1444	TYR	CA-CB-CG	-5.12	104.68	113.90
1	D	157	LYS	CA-CB-CG	5.09	124.29	114.10
1	A	157	LYS	CA-CB-CG	5.08	124.26	114.10
1	D	1331	SER	CA-C-N	-5.06	112.86	121.97
1	D	1331	SER	C-N-CA	-5.06	112.86	121.97
1	D	1347	TYR	CA-CB-CG	-5.05	104.81	113.90
3	F	79	LEU	CA-CB-CG	5.05	133.97	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	79	LEU	CA-CB-CG	5.05	133.97	116.30
1	A	1347	TYR	CA-CB-CG	-5.04	104.83	113.90
1	D	1430	ILE	N-CA-CB	-5.03	105.87	111.41
1	D	1375	GLN	CA-CB-CG	5.02	124.14	114.10
1	A	1430	ILE	N-CA-CB	-5.02	105.89	111.41
1	A	1375	GLN	CA-CB-CG	5.01	124.13	114.10
1	D	477	ARG	CG-CD-NE	5.01	123.03	112.00
1	A	477	ARG	CG-CD-NE	5.01	123.03	112.00
1	A	507	LEU	CA-C-N	-5.01	114.46	121.72
1	A	507	LEU	C-N-CA	-5.01	114.46	121.72
1	D	507	LEU	CA-C-N	-5.00	114.47	121.72
1	D	507	LEU	C-N-CA	-5.00	114.47	121.72

There are no chirality outliers.

All (81) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1047	PHE	Peptide
1	A	1124	ASP	Peptide
1	A	1143	GLY	Peptide
1	A	1195	GLU	Peptide
1	A	1216	ARG	Peptide
1	A	132	LEU	Peptide
1	A	1330	GLU	Peptide
1	A	1353	PRO	Peptide
1	A	1365	GLY	Peptide
1	A	1435	LYS	Peptide
1	A	1453	VAL	Peptide
1	A	1477	GLY	Peptide
1	A	1524	ILE	Peptide
1	A	1551	PHE	Peptide
1	A	1579	PHE	Peptide
1	A	276	UNK	Peptide
1	A	341	UNK	Peptide
1	A	418	MET	Peptide
1	A	445	ASN	Peptide
1	A	471	LYS	Peptide
1	A	510	MET	Peptide
1	A	532	VAL	Peptide
1	A	533	LYS	Peptide
1	A	535	MET	Peptide
1	A	547	HIS	Peptide

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Mol	Chain	Res	Type	Group
1	A	548	ASP	Peptide
1	A	549	LEU	Peptide
1	A	569	PRO	Peptide
1	A	596	SER	Peptide
1	A	597	ARG	Peptide
1	A	66	ILE	Peptide
1	A	799	UNK	Peptide
1	A	802	UNK	Peptide
2	B	56	SER	Peptide
2	B	647	ASP	Peptide
3	C	43	ASN	Peptide
3	C	65	ASP	Peptide
1	D	1047	PHE	Peptide
1	D	1124	ASP	Peptide
1	D	1143	GLY	Peptide
1	D	1195	GLU	Peptide
1	D	1216	ARG	Peptide
1	D	132	LEU	Peptide
1	D	1330	GLU	Peptide
1	D	1353	PRO	Peptide
1	D	1365	GLY	Peptide
1	D	1435	LYS	Peptide
1	D	1453	VAL	Peptide
1	D	1477	GLY	Peptide
1	D	1524	ILE	Peptide
1	D	1551	PHE	Peptide
1	D	1579	PHE	Peptide
1	D	276	UNK	Peptide
1	D	341	UNK	Peptide
1	D	418	MET	Peptide
1	D	445	ASN	Peptide
1	D	471	LYS	Peptide
1	D	510	MET	Peptide
1	D	532	VAL	Peptide
1	D	533	LYS	Peptide
1	D	535	MET	Peptide
1	D	547	HIS	Peptide
1	D	548	ASP	Peptide
1	D	549	LEU	Peptide
1	D	569	PRO	Peptide
1	D	596	SER	Peptide
1	D	597	ARG	Peptide

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Mol	Chain	Res	Type	Group
1	D	66	ILE	Peptide
1	D	799	UNK	Peptide
1	D	802	UNK	Peptide
2	E	56	SER	Peptide
2	E	592	GLU	Peptide
2	E	602	ASP	Peptide
2	E	643	SER	Peptide
2	E	644	ILE	Peptide
2	E	647	ASP	Peptide
2	E	652	LEU	Peptide
2	E	653	ASN	Peptide
3	F	37	PHE	Peptide
3	F	43	ASN	Peptide
3	F	65	ASP	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	10203	0	8220	2352	0
1	D	10203	0	8220	2386	0
2	B	5054	0	4721	260	0
2	E	5056	0	4724	705	0
3	C	1383	0	1405	452	0
3	F	1383	0	1405	431	0
All	All	33282	0	28695	6314	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 102.

All (6314) 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:D:1441:ARG:HA	1:D:1469:PHE:O	1.25	1.31
2:E:641:ALA:HA	2:E:654:PHE:O	1.33	1.25
1:A:1441:ARG:HA	1:A:1469:PHE:O	1.25	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1585:LYS:O	1:D:1588:GLU:HB3	1.36	1.20
1:D:1346:GLY:O	1:D:1406:ILE:HA	1.39	1.20
1:A:1585:LYS:O	1:A:1588:GLU:HB3	1.36	1.18
1:A:1346:GLY:O	1:A:1406:ILE:HA	1.39	1.16
1:D:1563:GLN:O	1:D:1566:LEU:HB2	1.46	1.15
1:A:1563:GLN:O	1:A:1566:LEU:HB2	1.46	1.15
2:E:618:THR:HA	2:E:642:PHE:HB2	1.29	1.15
3:C:3:ALA:HA	3:C:52:ASN:O	1.43	1.14
1:D:1547:GLU:HA	1:D:1551:PHE:HB2	1.29	1.13
3:F:3:ALA:HA	3:F:52:ASN:O	1.43	1.13
1:D:1343:PHE:O	1:D:1363:TYR:HB3	1.49	1.13
1:A:1343:PHE:O	1:A:1363:TYR:HB3	1.49	1.12
1:A:1547:GLU:HA	1:A:1551:PHE:HB2	1.29	1.12
1:D:1446:ARG:HB3	1:D:1465:GLU:O	1.48	1.12
1:A:1446:ARG:HB3	1:A:1465:GLU:O	1.48	1.11
1:A:109:SER:OG	1:A:110:LYS:NZ	1.84	1.11
1:D:109:SER:OG	1:D:110:LYS:NZ	1.84	1.11
1:A:1467:THR:HA	1:A:1488:SER:O	1.51	1.10
1:D:1467:THR:HA	1:D:1488:SER:O	1.51	1.09
1:A:1442:PHE:O	1:A:1468:SER:HA	1.50	1.09
1:D:1442:PHE:O	1:D:1468:SER:HA	1.50	1.09
1:A:1296:GLU:HA	1:A:1299:SER:HB3	1.35	1.08
1:D:1296:GLU:HA	1:D:1299:SER:HB3	1.35	1.08
1:D:1527:LEU:O	1:D:1531:LEU:HB2	1.53	1.07
1:A:1527:LEU:O	1:A:1531:LEU:HB2	1.53	1.05
1:D:31:ILE:HD12	2:E:532:PRO:HB2	1.33	1.04
1:D:1606:PHE:O	1:D:1610:LYS:HB3	1.56	1.04
1:A:1395:GLY:O	1:A:1399:LYS:N	1.89	1.04
1:D:1395:GLY:O	1:D:1399:LYS:N	1.89	1.04
1:D:1544:ALA:O	1:D:1548:LYS:N	1.91	1.03
1:A:1606:PHE:O	1:A:1610:LYS:HB3	1.56	1.03
1:D:1437:ASN:HB3	1:D:1438:TYR:CD1	1.93	1.03
3:F:111:ILE:HA	3:F:151:ALA:HA	1.40	1.02
1:A:1544:ALA:O	1:A:1548:LYS:N	1.91	1.02
1:D:1573:ILE:O	1:D:1576:GLN:HB3	1.59	1.02
1:A:1437:ASN:HB3	1:A:1438:TYR:CD1	1.93	1.02
2:E:548:ILE:O	2:E:552:ARG:NH1	1.92	1.02
2:E:563:ARG:HB3	2:E:655:ILE:HB	1.42	1.02
3:F:84:LEU:HD12	3:F:117:LEU:HA	1.41	1.02
1:A:1091:PRO:O	1:A:1095:MET:HB2	1.58	1.01
1:D:1582:ALA:HA	1:D:1585:LYS:HD2	1.42	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:84:LEU:HD12	3:C:117:LEU:HA	1.41	1.01
1:D:1379:MET:O	2:E:582:ASN:ND2	1.93	1.01
1:D:1431:ILE:HD12	1:D:1434:TYR:HB2	1.39	1.01
2:E:609:PRO:HB2	2:E:612:ASP:HB2	1.42	1.01
1:A:1292:LYS:HA	1:A:1294:TRP:CE2	1.96	1.01
1:D:1295:GLU:CD	1:D:1295:GLU:H	1.69	1.01
1:D:1391:THR:HG23	3:F:28:PHE:HB2	1.41	1.01
1:D:1506:ASN:HA	1:D:1509:ILE:HD12	1.41	1.01
1:A:1573:ILE:O	1:A:1576:GLN:HB3	1.59	1.00
2:B:613:ILE:HD12	2:B:644:ILE:HD11	1.42	1.00
1:D:1091:PRO:O	1:D:1095:MET:HB2	1.58	1.00
1:A:1582:ALA:HA	1:A:1585:LYS:HD2	1.42	1.00
3:F:153:LYS:HZ3	3:F:171:GLU:H	1.07	1.00
1:A:1441:ARG:NH2	1:A:1486:HIS:O	1.94	1.00
3:C:111:ILE:HA	3:C:151:ALA:HA	1.40	1.00
3:C:158:SER:HB3	3:C:163:ARG:HH22	1.27	1.00
1:D:1292:LYS:HA	1:D:1294:TRP:CE2	1.96	1.00
1:A:550:VAL:HG23	1:A:572:ARG:HG3	1.43	0.99
1:A:1506:ASN:HA	1:A:1509:ILE:HD12	1.41	0.99
3:C:91:GLU:O	3:C:94:ARG:NH1	1.96	0.99
1:D:550:VAL:HG23	1:D:572:ARG:HG3	1.43	0.99
3:F:91:GLU:O	3:F:94:ARG:NH1	1.96	0.99
1:A:454:ALA:HA	1:A:505:ILE:HA	1.44	0.99
3:C:22:SER:HB2	3:C:159:ALA:HB1	1.44	0.99
2:E:532:PRO:HD3	2:E:708:ASP:HA	1.41	0.99
1:A:95:LEU:HA	1:A:98:TRP:HB2	1.44	0.99
1:D:454:ALA:HA	1:D:505:ILE:HA	1.44	0.98
1:A:1164:HIS:O	1:A:1168:ALA:N	1.95	0.98
1:D:1441:ARG:NH2	1:D:1486:HIS:O	1.94	0.98
1:D:1164:HIS:O	1:D:1168:ALA:N	1.95	0.98
1:A:1431:ILE:HD12	1:A:1434:TYR:HB2	1.39	0.98
1:D:1464:ILE:HB	1:D:1492:ILE:HG12	1.45	0.98
2:E:643:SER:HA	2:E:652:LEU:O	1.64	0.98
3:C:123:LYS:O	3:C:127:GLU:HB2	1.64	0.98
3:F:158:SER:HB3	3:F:163:ARG:HH22	1.27	0.98
1:A:994:MET:SD	1:A:1058:LYS:NZ	2.37	0.97
2:E:545:LEU:HG	2:E:686:LEU:HD13	1.44	0.97
1:A:1305:ALA:HA	1:A:1318:LEU:HD11	1.46	0.97
1:D:994:MET:SD	1:D:1058:LYS:NZ	2.37	0.97
3:C:20:LEU:HD13	3:C:55:LEU:HD13	1.45	0.97
3:F:22:SER:HB2	3:F:159:ALA:HB1	1.44	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1456:GLU:O	1:A:1545:LYS:NZ	1.98	0.96
3:F:123:LYS:O	3:F:127:GLU:HB2	1.64	0.96
1:A:1601:ARG:HG3	3:C:66:ARG:HH22	1.24	0.96
3:F:20:LEU:HD13	3:F:55:LEU:HD13	1.45	0.96
1:A:1464:ILE:HB	1:A:1492:ILE:HG12	1.45	0.96
1:A:1438:TYR:HA	1:A:1474:LYS:HG2	1.48	0.96
1:D:1438:TYR:HA	1:D:1474:LYS:HG2	1.48	0.96
1:D:95:LEU:HA	1:D:98:TRP:HB2	1.44	0.96
1:A:1223:TYR:HA	1:A:1226:LYS:HE2	1.47	0.96
1:A:1364:ARG:HD2	1:A:1475:LEU:HD22	1.48	0.96
1:D:1223:TYR:HA	1:D:1226:LYS:HE2	1.47	0.96
1:A:1397:ASP:O	1:A:1401:ALA:N	1.99	0.95
1:D:1337:ARG:NH2	1:D:1429:GLN:O	1.99	0.95
1:D:1305:ALA:HA	1:D:1318:LEU:HD11	1.46	0.95
1:D:1456:GLU:O	1:D:1545:LYS:NZ	1.98	0.95
1:A:1337:ARG:NH2	1:A:1429:GLN:O	1.99	0.95
1:D:1397:ASP:O	1:D:1401:ALA:N	1.99	0.95
3:C:94:ARG:NH2	3:C:145:MET:SD	2.40	0.95
2:E:692:MET:HA	2:E:695:LYS:HD2	1.49	0.95
1:A:1295:GLU:CD	1:A:1295:GLU:H	1.69	0.95
1:A:1438:TYR:N	1:A:1475:LEU:O	2.00	0.95
1:D:1364:ARG:HD2	1:D:1475:LEU:HD22	1.48	0.95
2:E:660:HIS:CD2	2:E:661:GLU:HG2	2.02	0.94
1:D:427:TYR:HB2	1:D:605:LEU:HB2	1.49	0.94
3:F:1:MET:N	3:F:50:PRO:O	2.00	0.94
3:F:47:ASP:O	3:F:49:LYS:NZ	1.99	0.94
1:A:1342:TYR:O	1:A:1410:THR:HG23	1.67	0.94
1:D:98:TRP:HB3	1:D:121:MET:HE2	1.50	0.94
3:F:94:ARG:NH2	3:F:145:MET:SD	2.40	0.94
3:C:1:MET:N	3:C:50:PRO:O	2.00	0.94
3:C:47:ASP:O	3:C:49:LYS:NZ	1.99	0.94
1:A:1368:TYR:HD2	3:C:45:MET:HB2	1.32	0.94
1:A:1248:THR:O	1:A:1251:LEU:N	2.01	0.93
1:D:1438:TYR:N	1:D:1475:LEU:O	2.00	0.93
1:A:1438:TYR:HA	1:A:1474:LYS:HZ2	1.31	0.93
1:D:1248:THR:O	1:D:1251:LEU:N	2.01	0.93
1:D:1371:ARG:HH22	1:D:1408:CYS:HB3	1.33	0.93
1:D:1342:TYR:O	1:D:1410:THR:HG23	1.67	0.93
2:E:542:PRO:HA	2:E:545:LEU:HD12	1.47	0.93
1:A:1450:ARG:HH21	1:A:1491:THR:HB	1.33	0.93
1:D:1343:PHE:O	1:D:1363:TYR:CB	2.16	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1343:PHE:O	1:A:1363:TYR:CB	2.16	0.93
1:A:1601:ARG:CG	3:C:66:ARG:HH22	1.80	0.93
1:D:1583:GLY:O	1:D:1587:HIS:N	2.02	0.93
1:A:1228:ARG:HB2	1:A:1243:THR:HG21	1.48	0.93
1:D:1228:ARG:HB2	1:D:1243:THR:HG21	1.48	0.93
1:A:427:TYR:HB2	1:A:605:LEU:HB2	1.49	0.92
1:A:51:LYS:HZ1	1:A:96:TRP:HH2	1.07	0.92
3:C:153:LYS:HZ3	3:C:171:GLU:H	1.07	0.92
1:D:1301:CYS:O	1:D:1321:ASN:ND2	2.03	0.92
2:E:661:GLU:OE1	2:E:665:TRP:NE1	2.01	0.92
1:D:1289:ASP:OD1	1:D:1290:LYS:N	2.03	0.92
1:A:500:GLU:OE1	1:A:500:GLU:N	2.02	0.92
1:A:1133:ILE:O	1:A:1136:LEU:HB2	1.70	0.92
1:A:1301:CYS:O	1:A:1321:ASN:ND2	2.03	0.92
1:D:1133:ILE:O	1:D:1136:LEU:HB2	1.70	0.92
1:A:1583:GLY:O	1:A:1587:HIS:N	2.02	0.92
2:E:641:ALA:CA	2:E:654:PHE:O	2.18	0.91
1:A:1289:ASP:OD1	1:A:1290:LYS:N	2.03	0.91
1:A:1350:GLN:HB2	1:A:1402:PRO:HA	1.50	0.91
1:A:1352:PHE:HA	1:A:1404:GLN:HE21	1.36	0.91
1:D:500:GLU:OE1	1:D:500:GLU:N	2.02	0.91
1:D:1238:THR:OG1	1:D:1239:GLU:N	2.00	0.91
1:D:1450:ARG:HH21	1:D:1491:THR:HB	1.33	0.91
2:E:534:LEU:HA	2:E:537:LYS:HB2	1.52	0.91
1:A:1441:ARG:CA	1:A:1469:PHE:O	2.16	0.91
1:D:1370:ARG:HH21	3:F:44:VAL:HG13	1.36	0.91
1:A:1390:THR:O	1:A:1407:GLN:NE2	2.04	0.91
1:D:1470:VAL:HG13	1:D:1485:VAL:HG13	1.50	0.91
2:E:545:LEU:HA	2:E:548:ILE:HD12	1.51	0.91
1:A:1239:GLU:HG2	1:A:1478:ILE:HA	1.49	0.91
2:E:576:TYR:HB3	2:E:591:LEU:HD21	1.51	0.91
1:A:98:TRP:HB3	1:A:121:MET:HE2	1.50	0.91
1:A:1152:LEU:O	1:A:1155:SER:OG	1.88	0.91
1:D:1239:GLU:HG2	1:D:1478:ILE:HA	1.49	0.91
2:E:541:GLN:HE21	2:E:686:LEU:HD21	1.34	0.91
2:E:551:GLN:HB3	2:E:552:ARG:NH1	1.86	0.91
1:D:1437:ASN:HB3	1:D:1438:TYR:HD1	1.36	0.90
1:A:454:ALA:HB3	1:A:458:LYS:HB3	1.53	0.90
1:A:1437:ASN:HB3	1:A:1438:TYR:HD1	1.36	0.90
1:D:1152:LEU:O	1:D:1155:SER:OG	1.88	0.90
1:D:1162:ALA:O	1:D:1164:HIS:ND1	2.04	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1350:GLN:HB2	1:D:1402:PRO:HA	1.50	0.90
1:A:1371:ARG:HH22	1:A:1408:CYS:HB3	1.33	0.90
1:D:1390:THR:O	1:D:1407:GLN:NE2	2.04	0.90
1:D:1296:GLU:OE1	1:D:1296:GLU:N	2.04	0.90
1:D:1359:LYS:HE3	1:D:1483:GLU:HG2	1.54	0.90
2:E:637:VAL:O	2:E:641:ALA:N	2.04	0.90
1:A:1162:ALA:O	1:A:1164:HIS:ND1	2.04	0.90
1:D:1352:PHE:HA	1:D:1404:GLN:HE21	1.36	0.90
1:A:462:ASN:HA	1:A:473:MET:HA	1.54	0.90
3:F:158:SER:HB3	3:F:163:ARG:NH2	1.87	0.90
1:A:1359:LYS:HE3	1:A:1483:GLU:HG2	1.54	0.90
1:D:1331:SER:HA	1:D:1335:ILE:HD12	1.54	0.90
2:E:553:LEU:HD13	2:E:556:LEU:HD12	1.52	0.90
1:D:1441:ARG:CA	1:D:1469:PHE:O	2.16	0.89
1:A:1331:SER:HA	1:A:1335:ILE:HD12	1.54	0.89
1:A:1470:VAL:HG13	1:A:1485:VAL:HG13	1.50	0.89
1:D:462:ASN:HA	1:D:473:MET:HA	1.54	0.89
1:D:1540:MET:SD	1:D:1545:LYS:NZ	2.46	0.89
1:D:454:ALA:HB3	1:D:458:LYS:HB3	1.53	0.89
1:D:1537:PRO:HA	3:F:37:PHE:HE1	1.35	0.89
1:A:1296:GLU:N	1:A:1296:GLU:OE1	2.04	0.89
1:D:1582:ALA:O	1:D:1586:ILE:N	2.05	0.89
2:E:525:GLN:O	2:E:529:GLN:N	2.05	0.89
1:A:1540:MET:SD	1:A:1545:LYS:NZ	2.46	0.89
1:A:1337:ARG:NH2	1:A:1432:ASN:OD1	2.06	0.89
3:C:158:SER:HB3	3:C:163:ARG:NH2	1.87	0.89
1:D:445:ASN:HB3	1:D:515:SER:HA	1.55	0.89
1:D:1579:PHE:HA	1:D:1582:ALA:H	1.38	0.89
1:A:1391:THR:HG23	3:C:28:PHE:HB2	1.53	0.89
1:A:1582:ALA:O	1:A:1586:ILE:N	2.05	0.89
2:E:551:GLN:HB3	2:E:552:ARG:HH12	1.38	0.89
1:A:1550:PHE:HA	1:A:1555:TYR:HB3	1.54	0.89
1:A:1579:PHE:HA	1:A:1582:ALA:H	1.38	0.89
3:C:94:ARG:HG2	3:C:94:ARG:HH11	1.38	0.89
1:D:1255:ASP:HA	1:D:1273:HIS:HB3	1.55	0.89
2:E:556:LEU:HD21	2:E:668:GLY:HA3	1.54	0.89
1:D:1134:LEU:O	1:D:1137:ASP:HB2	1.74	0.88
1:A:1368:TYR:CD2	3:C:45:MET:HB2	2.08	0.88
1:A:445:ASN:HB3	1:A:515:SER:HA	1.55	0.88
1:D:1337:ARG:NH2	1:D:1432:ASN:OD1	2.06	0.88
1:D:1299:SER:OG	1:D:1300:LEU:N	2.05	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1255:ASP:HA	1:A:1273:HIS:HB3	1.55	0.88
1:A:84:GLU:OE2	1:A:84:GLU:N	2.06	0.88
1:A:146:GLN:NE2	1:A:150:SER:OG	2.07	0.88
3:F:94:ARG:HH11	3:F:94:ARG:HG2	1.38	0.88
1:A:1543:PHE:HD1	3:C:37:PHE:HZ	1.20	0.87
1:D:1550:PHE:HA	1:D:1555:TYR:HB3	1.54	0.87
1:A:1043:GLN:HG3	1:A:1044:LEU:H	1.39	0.87
1:A:1077:LEU:HD22	1:A:1080:ASN:HB3	1.56	0.87
1:D:146:GLN:NE2	1:D:150:SER:OG	2.07	0.87
2:E:541:GLN:HG3	2:E:686:LEU:HD11	1.56	0.87
1:A:820:UNK:O	1:A:824:UNK:N	2.07	0.87
1:A:1411:VAL:HG21	1:A:1442:PHE:HB3	1.54	0.87
1:A:1024:GLN:OE1	1:A:1024:GLN:HA	1.75	0.87
1:A:1344:ALA:O	1:A:1408:CYS:HA	1.75	0.87
1:D:84:GLU:N	1:D:84:GLU:OE2	2.06	0.87
1:D:1537:PRO:HA	3:F:37:PHE:CE1	2.09	0.87
1:A:39:GLU:HG2	1:A:46:ARG:HB3	1.56	0.87
1:A:536:LYS:O	1:A:539:GLY:N	2.08	0.87
1:D:842:UNK:O	1:D:846:UNK:N	2.08	0.87
1:A:1292:LYS:HA	1:A:1294:TRP:CZ2	2.09	0.87
1:A:842:UNK:O	1:A:846:UNK:N	2.08	0.87
1:A:1418:HIS:HB3	1:A:1421:PHE:CD2	2.10	0.87
1:A:1565:LYS:O	1:A:1568:HIS:HB2	1.74	0.87
1:D:1411:VAL:HG21	1:D:1442:PHE:HB3	1.54	0.87
1:D:1599:HIS:ND1	1:D:1603:GLU:OE2	2.06	0.87
1:A:1601:ARG:HG3	3:C:66:ARG:NH2	1.88	0.86
1:D:1171:VAL:O	1:D:1174:PHE:N	2.08	0.86
2:E:121:ILE:HD11	2:E:165:LEU:HB3	1.53	0.86
1:D:1344:ALA:O	1:D:1408:CYS:HA	1.74	0.86
1:D:1585:LYS:O	1:D:1588:GLU:CB	2.23	0.86
1:A:1434:TYR:HA	1:A:1437:ASN:HB2	1.57	0.86
1:D:1292:LYS:HA	1:D:1294:TRP:CZ2	2.09	0.86
1:A:1134:LEU:O	1:A:1137:ASP:HB2	1.74	0.86
1:A:1171:VAL:O	1:A:1174:PHE:N	2.08	0.86
1:A:1444:TYR:HB3	1:A:1467:THR:O	1.74	0.86
1:D:950:UNK:O	1:D:954:UNK:N	2.09	0.86
1:D:1316:GLU:O	1:D:1319:SER:OG	1.93	0.86
1:A:1299:SER:OG	1:A:1300:LEU:N	2.05	0.86
1:D:128:ARG:HH11	2:E:699:LEU:HD21	1.39	0.86
1:D:820:UNK:O	1:D:824:UNK:N	2.07	0.86
1:D:1043:GLN:HG3	1:D:1044:LEU:H	1.39	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1581:GLY:O	1:A:1585:LYS:N	2.09	0.86
1:A:1599:HIS:ND1	1:A:1603:GLU:OE2	2.06	0.86
1:D:1348:TYR:HB3	1:D:1399:LYS:HA	1.57	0.86
1:D:1418:HIS:HB3	1:D:1421:PHE:CD2	2.10	0.86
1:D:1440:GLN:O	1:D:1470:VAL:HA	1.75	0.86
1:D:1565:LYS:O	1:D:1568:HIS:HB2	1.74	0.86
1:A:1095:MET:HE3	1:A:1108:ILE:HD11	1.58	0.86
1:A:1367:GLU:HB2	3:C:45:MET:HE1	1.58	0.86
1:A:1337:ARG:HH22	1:A:1430:ILE:HA	1.41	0.86
1:D:1239:GLU:HA	1:D:1242:TYR:HB2	1.58	0.86
3:F:116:LYS:HD2	3:F:119:LEU:HD12	1.57	0.86
1:A:1440:GLN:O	1:A:1470:VAL:HA	1.75	0.86
1:A:1585:LYS:O	1:A:1588:GLU:CB	2.23	0.86
1:D:1077:LEU:HD22	1:D:1080:ASN:HB3	1.56	0.86
1:A:1316:GLU:O	1:A:1319:SER:OG	1.93	0.85
1:D:1024:GLN:OE1	1:D:1024:GLN:HA	1.75	0.85
1:D:1581:GLY:O	1:D:1585:LYS:N	2.09	0.85
1:A:34:VAL:HB	1:A:50:ILE:HD12	1.59	0.85
1:A:950:UNK:O	1:A:954:UNK:N	2.09	0.85
1:A:1352:PHE:O	1:A:1357:ARG:NH2	2.09	0.85
1:D:536:LYS:O	1:D:539:GLY:N	2.08	0.85
1:D:1308:TYR:HB3	1:D:1318:LEU:HD22	1.57	0.85
2:E:658:ASP:H	2:E:661:GLU:HB2	1.36	0.85
1:D:1352:PHE:O	1:D:1357:ARG:NH2	2.09	0.85
1:D:1444:TYR:HB3	1:D:1467:THR:O	1.74	0.85
1:A:1348:TYR:HB3	1:A:1399:LYS:HA	1.57	0.85
1:A:1239:GLU:O	1:A:1243:THR:N	2.09	0.85
1:A:1363:TYR:OH	1:A:1480:ARG:NH2	2.10	0.85
1:D:1550:PHE:HB2	1:D:1566:LEU:HD11	1.58	0.85
1:D:156:ASN:N	1:D:156:ASN:OD1	2.09	0.85
1:D:466:VAL:HA	1:D:493:VAL:HG12	1.59	0.85
1:A:1501:THR:O	1:A:1504:THR:OG1	1.95	0.85
1:D:774:UNK:O	1:D:778:UNK:N	2.10	0.85
2:E:701:LEU:HA	2:E:704:ILE:HD12	1.59	0.85
1:A:789:UNK:O	1:A:793:UNK:N	2.10	0.85
1:D:1363:TYR:OH	1:D:1480:ARG:NH2	2.10	0.85
1:D:1501:THR:O	1:D:1504:THR:OG1	1.95	0.85
1:A:774:UNK:O	1:A:778:UNK:N	2.10	0.85
3:C:138:THR:OG1	3:C:141:GLN:N	2.09	0.85
1:D:1433:PHE:HA	1:D:1436:SER:HB2	1.59	0.85
1:A:1010:THR:O	1:A:1013:GLN:NE2	2.10	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1239:GLU:HA	1:A:1242:TYR:HB2	1.58	0.84
1:A:1371:ARG:NH2	1:A:1408:CYS:O	2.10	0.84
1:A:466:VAL:HA	1:A:493:VAL:HG12	1.59	0.84
1:A:1277:LYS:O	1:A:1280:LEU:HB3	1.76	0.84
1:A:1308:TYR:HB3	1:A:1318:LEU:HD22	1.58	0.84
1:A:1550:PHE:HB2	1:A:1566:LEU:HD11	1.58	0.84
1:D:39:GLU:HG2	1:D:46:ARG:HB3	1.56	0.84
1:D:1277:LYS:O	1:D:1280:LEU:HB3	1.76	0.84
1:D:1371:ARG:NH2	1:D:1408:CYS:O	2.11	0.84
2:E:546:GLU:O	2:E:549:LYS:N	2.11	0.84
1:A:1428:ASP:C	1:A:1430:ILE:H	1.85	0.84
1:A:1465:GLU:HA	1:A:1490:THR:O	1.77	0.84
1:D:1337:ARG:HH22	1:D:1430:ILE:HA	1.40	0.84
1:A:1444:TYR:CB	1:A:1467:THR:O	2.26	0.84
1:A:1464:ILE:HG12	3:C:33:ILE:HG12	1.59	0.84
1:D:1434:TYR:HA	1:D:1437:ASN:HB2	1.57	0.84
1:D:1444:TYR:CB	1:D:1467:THR:O	2.26	0.84
1:D:1465:GLU:HA	1:D:1490:THR:O	1.77	0.84
2:E:691:SER:O	2:E:695:LYS:HG3	1.76	0.84
3:C:19:LEU:HA	3:C:159:ALA:HB2	1.60	0.84
1:D:1095:MET:HE3	1:D:1108:ILE:HD11	1.58	0.84
1:A:155:GLY:O	1:A:159:LEU:N	2.09	0.83
1:D:18:ASN:ND2	2:E:535:GLU:HB3	1.93	0.83
1:D:789:UNK:O	1:D:793:UNK:N	2.10	0.83
1:D:1010:THR:O	1:D:1013:GLN:NE2	2.10	0.83
3:F:19:LEU:HA	3:F:159:ALA:HB2	1.60	0.83
1:A:1601:ARG:HH12	1:A:1605:CYS:HB2	1.44	0.83
1:D:155:GLY:O	1:D:159:LEU:N	2.09	0.83
1:D:1274:ARG:HH22	1:D:1312:ILE:HD11	1.43	0.83
1:A:1350:GLN:HA	1:A:1357:ARG:HD3	1.61	0.83
3:C:116:LYS:HD2	3:C:119:LEU:HD12	1.57	0.83
1:A:1431:ILE:O	1:A:1434:TYR:N	2.10	0.83
1:A:1433:PHE:HA	1:A:1436:SER:HB2	1.59	0.83
1:D:34:VAL:HB	1:D:50:ILE:HD12	1.58	0.83
1:A:799:UNK:O	1:A:802:UNK:N	2.12	0.83
1:A:1274:ARG:HH22	1:A:1312:ILE:HD11	1.43	0.83
1:A:1281:TYR:O	1:A:1284:ILE:HB	1.78	0.83
1:D:1352:PHE:HE1	1:D:1406:ILE:HG13	1.44	0.83
2:E:643:SER:OG	2:E:644:ILE:O	1.96	0.83
1:A:775:UNK:O	1:A:779:UNK:N	2.11	0.83
1:D:1281:TYR:O	1:D:1284:ILE:HB	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1431:ILE:O	1:D:1434:TYR:N	2.10	0.83
1:A:46:ARG:HD2	1:A:58:ILE:HG22	1.61	0.83
1:D:1428:ASP:C	1:D:1430:ILE:H	1.85	0.83
1:A:529:MET:HB3	1:A:552:LEU:HB2	1.61	0.83
1:A:1446:ARG:O	1:A:1464:ILE:HA	1.79	0.83
1:D:1160:CYS:O	1:D:1164:HIS:ND1	2.12	0.83
1:D:1446:ARG:O	1:D:1464:ILE:HA	1.79	0.83
1:D:1601:ARG:HH12	1:D:1605:CYS:HB2	1.44	0.83
1:A:457:GLY:HA3	1:A:560:GLU:HG3	1.61	0.82
1:A:1090:GLY:O	1:A:1093:LEU:N	2.12	0.82
1:A:1401:ALA:HB3	1:A:1405:TYR:HE2	1.44	0.82
1:A:1446:ARG:CB	1:A:1465:GLU:O	2.28	0.82
1:A:18:ASN:OD1	1:A:31:ILE:N	2.11	0.82
1:D:457:GLY:HA3	1:D:560:GLU:HG3	1.61	0.82
1:D:529:MET:HB3	1:D:552:LEU:HB2	1.61	0.82
1:D:775:UNK:O	1:D:779:UNK:N	2.11	0.82
1:D:18:ASN:OD1	1:D:31:ILE:N	2.11	0.82
3:C:82:PHE:HB2	3:C:89:SER:HB2	1.61	0.82
1:D:799:UNK:O	1:D:802:UNK:N	2.12	0.82
1:D:1350:GLN:HA	1:D:1357:ARG:HD3	1.61	0.82
1:A:1296:GLU:O	1:A:1299:SER:N	2.12	0.82
1:D:432:GLN:HG3	1:D:601:SER:H	1.42	0.82
1:D:1256:GLU:H	1:D:1273:HIS:H	1.26	0.82
2:E:584:LYS:O	2:E:610:VAL:N	2.13	0.82
1:A:778:UNK:O	1:A:782:UNK:N	2.13	0.82
3:F:138:THR:OG1	3:F:141:GLN:N	2.09	0.82
1:A:1160:CYS:O	1:A:1164:HIS:ND1	2.12	0.82
1:D:1090:GLY:O	1:D:1093:LEU:N	2.12	0.82
1:D:1239:GLU:O	1:D:1243:THR:N	2.09	0.82
1:A:60:PRO:HG2	1:A:63:PHE:H	1.45	0.82
1:A:1172:GLU:HA	1:A:1175:VAL:HG22	1.61	0.82
1:A:1352:PHE:HE1	1:A:1406:ILE:HG13	1.44	0.82
1:D:1227:LEU:O	1:D:1230:LEU:N	2.13	0.82
1:A:432:GLN:HG3	1:A:601:SER:H	1.42	0.82
2:E:586:LEU:O	2:E:587:HIS:ND1	2.13	0.81
1:A:1349:GLY:H	1:A:1399:LYS:C	1.88	0.81
1:A:1371:ARG:NH2	1:A:1408:CYS:HB3	1.95	0.81
1:A:1378:LEU:O	1:A:1382:PHE:N	2.14	0.81
1:D:1296:GLU:O	1:D:1299:SER:N	2.12	0.81
2:E:551:GLN:HA	2:E:554:ASN:ND2	1.95	0.81
2:E:667:ASP:OD1	2:E:670:ASN:ND2	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1227:LEU:O	1:A:1230:LEU:N	2.13	0.81
1:D:39:GLU:HB3	2:E:724:TYR:HB2	1.62	0.81
1:D:1172:GLU:HA	1:D:1175:VAL:HG22	1.61	0.81
1:D:1371:ARG:NH2	1:D:1408:CYS:HB3	1.95	0.81
1:D:1410:THR:HG22	1:D:1411:VAL:O	1.81	0.81
1:D:1446:ARG:CB	1:D:1465:GLU:O	2.28	0.81
1:D:1464:ILE:HG12	3:F:33:ILE:HG12	1.62	0.81
2:E:7:ILE:HD11	2:E:23:GLU:HB3	1.63	0.81
1:D:46:ARG:HD2	1:D:58:ILE:HG22	1.61	0.81
1:D:96:TRP:CD1	2:E:696:LEU:HD22	2.15	0.81
1:D:778:UNK:O	1:D:782:UNK:N	2.13	0.81
1:D:1322:LEU:HA	1:D:1325:GLN:NE2	1.95	0.81
1:D:1378:LEU:O	1:D:1382:PHE:N	2.14	0.81
1:D:1401:ALA:HB3	1:D:1405:TYR:HE2	1.44	0.81
2:E:695:LYS:HA	2:E:698:LEU:HG	1.62	0.81
1:A:126:GLU:OE1	1:A:130:GLN:NE2	2.13	0.81
1:A:154:TYR:O	1:A:157:LYS:HB3	1.81	0.81
1:A:1366:LYS:HZ3	1:A:1480:ARG:HD2	1.46	0.81
1:D:60:PRO:HG2	1:D:63:PHE:H	1.45	0.81
1:D:1438:TYR:HA	1:D:1474:LYS:HZ2	1.46	0.81
1:A:1047:PHE:CB	1:A:1051:LYS:HB2	2.10	0.81
1:A:1256:GLU:H	1:A:1273:HIS:H	1.26	0.81
1:A:1410:THR:HG22	1:A:1411:VAL:O	1.81	0.81
1:A:1415:LEU:HB2	1:A:1435:LYS:HB3	1.62	0.81
1:A:1415:LEU:HD22	1:A:1435:LYS:HB3	1.62	0.81
1:D:1349:GLY:H	1:D:1399:LYS:C	1.88	0.81
2:E:670:ASN:HA	2:E:675:LYS:HE3	1.63	0.81
1:A:1231:HIS:HE1	1:A:1239:GLU:HB2	1.47	0.80
1:D:126:GLU:OE1	1:D:130:GLN:NE2	2.13	0.80
1:D:1231:HIS:HE1	1:D:1239:GLU:HB2	1.47	0.80
1:D:1293:MET:HE1	1:D:1364:ARG:HH12	1.47	0.80
2:E:575:TRP:HA	2:E:591:LEU:H	1.46	0.80
1:D:154:TYR:O	1:D:157:LYS:HB3	1.81	0.80
2:E:689:LEU:O	2:E:692:MET:N	2.14	0.80
1:A:1203:CYS:HA	1:A:1206:ASN:HD22	1.47	0.80
1:A:1293:MET:HE1	1:A:1364:ARG:HH12	1.47	0.80
1:A:1412:GLN:O	1:A:1443:HIS:N	2.14	0.80
2:B:129:LEU:HD22	2:B:158:THR:HG23	1.63	0.80
2:E:181:ILE:HD12	2:E:208:MET:HE3	1.62	0.80
1:A:691:UNK:O	1:A:695:UNK:N	2.14	0.80
1:A:1062:MET:SD	1:A:1063:ARG:N	2.54	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1553:GLU:HA	1:A:1556:VAL:HB	1.63	0.80
1:D:1062:MET:SD	1:D:1063:ARG:N	2.54	0.80
2:E:656:ALA:HB1	2:E:661:GLU:HB3	1.64	0.80
1:D:1412:GLN:O	1:D:1443:HIS:N	2.14	0.80
3:F:82:PHE:HB2	3:F:89:SER:HB2	1.62	0.80
1:A:1322:LEU:HA	1:A:1325:GLN:NE2	1.95	0.80
1:D:1047:PHE:CB	1:D:1051:LYS:HB2	2.10	0.80
1:D:1415:LEU:HD22	1:D:1435:LYS:HB3	1.62	0.80
1:D:1568:HIS:O	1:D:1572:LEU:HG	1.82	0.80
2:E:541:GLN:HE22	2:E:683:ARG:NH2	1.79	0.80
3:C:85:VAL:HA	3:C:129:LEU:HD11	1.64	0.80
1:D:1236:ASN:OD1	1:D:1366:LYS:NZ	2.13	0.80
1:D:1415:LEU:HB2	1:D:1435:LYS:HB3	1.62	0.80
1:D:1553:GLU:HA	1:D:1556:VAL:HB	1.63	0.80
2:E:665:TRP:HA	2:E:665:TRP:CE3	2.14	0.80
3:F:170:ASP:O	3:F:174:ARG:NH1	2.15	0.80
1:D:1102:GLU:OE1	1:D:1102:GLU:N	2.13	0.80
1:D:1214:ASN:OD1	1:D:1216:ARG:N	2.15	0.80
1:A:139:ASP:OD1	1:A:140:GLU:N	2.15	0.79
1:A:1129:GLU:C	1:A:1216:ARG:HH22	1.90	0.79
1:A:1568:HIS:O	1:A:1572:LEU:HG	1.82	0.79
3:C:124:ASP:OD1	3:C:128:LYS:NZ	2.15	0.79
1:D:508:ARG:HA	1:D:531:TYR:HB3	1.64	0.79
1:A:6:LYS:HD3	1:A:8:ASP:HB2	1.63	0.79
1:A:1441:ARG:HE	1:A:1469:PHE:C	1.90	0.79
1:D:691:UNK:O	1:D:695:UNK:N	2.14	0.79
2:E:592:GLU:HB2	2:E:594:SER:OG	1.83	0.79
1:A:1236:ASN:OD1	1:A:1366:LYS:NZ	2.13	0.79
1:D:1203:CYS:HA	1:D:1206:ASN:HD22	1.47	0.79
1:A:1214:ASN:OD1	1:A:1216:ARG:N	2.15	0.79
1:D:1441:ARG:HE	1:D:1469:PHE:C	1.90	0.79
1:D:1595:LEU:O	1:D:1599:HIS:N	2.12	0.79
3:F:153:LYS:HE2	3:F:171:GLU:HB2	1.65	0.79
1:D:6:LYS:HD3	1:D:8:ASP:HB2	1.63	0.79
1:D:1016:LEU:O	1:D:1019:THR:OG1	2.00	0.79
3:F:85:VAL:HA	3:F:129:LEU:HD11	1.63	0.79
1:A:508:ARG:HA	1:A:531:TYR:HB3	1.64	0.79
3:C:170:ASP:O	3:C:174:ARG:NH1	2.15	0.79
1:D:139:ASP:OD1	1:D:140:GLU:N	2.15	0.79
3:F:124:ASP:OD1	3:F:128:LYS:NZ	2.15	0.79
1:D:1613:VAL:O	1:D:1617:TYR:N	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:90:PHE:CZ	3:F:141:GLN:HB3	2.18	0.79
1:D:769:UNK:O	1:D:773:UNK:N	2.16	0.79
1:D:1294:TRP:CE3	1:D:1331:SER:HB3	2.17	0.79
1:D:1428:ASP:HB3	1:D:1431:ILE:HG22	1.64	0.79
1:D:1515:GLN:O	1:D:1519:ASP:N	2.15	0.79
2:E:528:PHE:HA	2:E:534:LEU:HD13	1.65	0.79
2:E:545:LEU:O	2:E:548:ILE:HB	1.82	0.79
1:A:1294:TRP:CE3	1:A:1331:SER:HB3	2.17	0.79
1:D:1350:GLN:N	1:D:1401:ALA:O	2.16	0.79
1:A:1350:GLN:N	1:A:1401:ALA:O	2.16	0.79
1:D:51:LYS:HZ1	1:D:96:TRP:HH2	1.31	0.79
1:D:1366:LYS:HZ3	1:D:1480:ARG:HD2	1.46	0.79
1:D:1397:ASP:O	1:D:1400:ASN:N	2.16	0.79
1:D:1616:GLU:HG3	1:D:1617:TYR:CD2	2.18	0.79
2:E:478:ASN:HA	2:E:481:MET:HE2	1.65	0.79
1:A:1458:GLU:OE1	1:A:1458:GLU:N	2.15	0.78
1:A:1397:ASP:O	1:A:1400:ASN:N	2.16	0.78
1:A:1543:PHE:CD1	3:C:37:PHE:HZ	2.00	0.78
1:A:1614:GLU:O	1:A:1618:GLY:N	2.16	0.78
3:C:90:PHE:CZ	3:C:141:GLN:HB3	2.18	0.78
3:C:171:GLU:OE1	3:C:174:ARG:HB2	1.83	0.78
1:D:1431:ILE:HA	1:D:1434:TYR:CD2	2.18	0.78
1:D:1614:GLU:O	1:D:1618:GLY:N	2.16	0.78
2:E:685:ASP:O	2:E:689:LEU:HG	1.83	0.78
3:F:58:THR:HB	3:F:64:TYR:CD2	2.18	0.78
1:A:569:PRO:HB2	1:A:574:HIS:HB3	1.65	0.78
1:A:1431:ILE:HA	1:A:1434:TYR:CD2	2.18	0.78
1:A:1595:LEU:O	1:A:1599:HIS:N	2.12	0.78
3:F:171:GLU:OE1	3:F:174:ARG:HB2	1.83	0.78
1:A:769:UNK:O	1:A:773:UNK:N	2.16	0.78
1:A:1016:LEU:O	1:A:1019:THR:OG1	2.00	0.78
2:E:588:TYR:OH	2:E:607:LYS:O	2.01	0.78
3:F:8:VAL:O	3:F:16:LYS:NZ	2.17	0.78
1:A:1300:LEU:O	1:A:1303:GLU:N	2.17	0.78
3:F:49:LYS:HD2	3:F:49:LYS:N	1.98	0.78
1:A:94:THR:HG21	1:A:152:ILE:HD13	1.66	0.78
1:A:1173:ASN:O	1:A:1177:LEU:HB2	1.84	0.78
1:A:1349:GLY:N	1:A:1399:LYS:O	2.17	0.78
3:C:58:THR:HB	3:C:64:TYR:CD2	2.18	0.78
1:D:714:UNK:O	1:D:718:UNK:N	2.17	0.78
1:D:1450:ARG:HB2	1:D:1463:TRP:CD1	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1102:GLU:OE1	1:A:1102:GLU:N	2.13	0.78
1:A:1196:SER:O	1:A:1196:SER:OG	1.97	0.78
1:A:1613:VAL:O	1:A:1617:TYR:N	2.16	0.78
3:C:49:LYS:HD2	3:C:49:LYS:N	1.99	0.78
1:D:1300:LEU:O	1:D:1303:GLU:N	2.17	0.78
1:D:1370:ARG:NH2	3:F:44:VAL:HG13	1.98	0.78
1:D:1428:ASP:O	1:D:1430:ILE:N	2.17	0.78
1:A:107:VAL:HG22	2:B:551:GLN:HG2	1.65	0.78
1:A:714:UNK:O	1:A:718:UNK:N	2.17	0.78
1:A:1530:LEU:HA	3:C:39:ASN:OD1	1.83	0.78
1:A:1616:GLU:HG3	1:A:1617:TYR:CD2	2.18	0.78
1:A:156:ASN:N	1:A:156:ASN:OD1	2.09	0.78
1:A:1428:ASP:HB3	1:A:1431:ILE:HG22	1.64	0.78
3:C:92:ASN:HA	3:C:95:ALA:HB3	1.65	0.78
1:D:1173:ASN:O	1:D:1177:LEU:HB2	1.84	0.78
2:E:552:ARG:HH11	2:E:552:ARG:H	1.32	0.78
2:E:564:LYS:H	2:E:575:TRP:HE1	1.32	0.78
1:A:27:LEU:N	1:A:58:ILE:O	2.15	0.78
1:D:59:PHE:HD2	1:D:64:ILE:HG13	1.49	0.78
1:D:1129:GLU:C	1:D:1216:ARG:HH22	1.90	0.78
1:A:508:ARG:HB3	1:A:529:MET:HE1	1.65	0.77
1:A:1515:GLN:O	1:A:1519:ASP:N	2.15	0.77
1:D:94:THR:HG21	1:D:152:ILE:HD13	1.66	0.77
1:D:1516:TYR:HD1	1:D:1520:GLU:HA	1.49	0.77
1:A:59:PHE:HD2	1:A:64:ILE:HG13	1.49	0.77
1:A:1255:ASP:OD1	1:A:1275:GLN:N	2.14	0.77
1:A:1600:ASP:HA	1:A:1603:GLU:CD	2.09	0.77
2:B:419:GLU:HB3	2:B:481:MET:HE3	1.66	0.77
3:C:122:ASP:O	3:C:126:ILE:N	2.17	0.77
1:D:1458:GLU:OE1	1:D:1458:GLU:N	2.15	0.77
1:D:1600:ASP:HA	1:D:1603:GLU:CD	2.09	0.77
2:E:622:CYS:HB2	2:E:642:PHE:HA	1.66	0.77
1:A:1428:ASP:O	1:A:1430:ILE:N	2.17	0.77
1:A:1450:ARG:HB2	1:A:1463:TRP:CD1	2.19	0.77
1:A:1464:ILE:HD12	1:A:1492:ILE:HD11	1.66	0.77
1:D:508:ARG:HB3	1:D:529:MET:HE1	1.65	0.77
1:D:1349:GLY:N	1:D:1399:LYS:O	2.17	0.77
2:E:681:LEU:O	2:E:684:ASN:HB3	1.84	0.77
3:F:92:ASN:HA	3:F:95:ALA:HB3	1.66	0.77
1:A:770:UNK:O	1:A:774:UNK:N	2.17	0.77
1:A:1278:GLU:O	1:A:1281:TYR:N	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1563:GLN:O	1:D:1566:LEU:CB	2.28	0.77
1:A:1577:ILE:HA	1:A:1580:LEU:HD12	1.67	0.77
1:D:31:ILE:HG21	2:E:532:PRO:O	1.85	0.77
1:D:770:UNK:O	1:D:774:UNK:N	2.17	0.77
1:D:935:UNK:O	1:D:939:UNK:N	2.18	0.77
1:D:1255:ASP:OD1	1:D:1275:GLN:N	2.14	0.77
1:D:1464:ILE:HD12	1:D:1492:ILE:HD11	1.66	0.77
3:F:17:THR:HG23	3:F:18:CYS:H	1.50	0.77
3:F:111:ILE:HG22	3:F:112:LEU:H	1.49	0.77
1:A:1290:LYS:O	1:A:1292:LYS:NZ	2.18	0.77
2:E:537:LYS:HE2	2:E:538:GLU:OE1	1.85	0.77
1:D:547:HIS:HA	1:D:571:TYR:CZ	2.20	0.77
2:E:550:GLN:O	2:E:553:LEU:HB2	1.84	0.77
1:A:547:HIS:HA	1:A:571:TYR:CZ	2.20	0.77
1:A:935:UNK:O	1:A:939:UNK:N	2.18	0.77
1:A:1516:TYR:HD1	1:A:1520:GLU:HA	1.49	0.77
1:D:1544:ALA:O	1:D:1547:GLU:HB2	1.85	0.77
3:F:122:ASP:O	3:F:126:ILE:N	2.17	0.77
1:D:504:ARG:NH2	1:D:535:MET:HE2	2.00	0.77
1:D:951:UNK:O	1:D:955:UNK:CB	2.32	0.77
1:D:1577:ILE:HA	1:D:1580:LEU:HD12	1.67	0.77
2:E:562:PHE:HZ	2:E:665:TRP:CZ2	2.02	0.77
1:A:510:MET:HB3	1:A:528:ALA:O	1.85	0.76
1:A:951:UNK:O	1:A:955:UNK:CB	2.32	0.76
1:A:1563:GLN:O	1:A:1566:LEU:CB	2.28	0.76
1:A:1597:PRO:O	1:A:1600:ASP:N	2.18	0.76
3:C:153:LYS:HE2	3:C:171:GLU:HB2	1.65	0.76
1:D:1229:ASP:HA	1:D:1232:LEU:HG	1.66	0.76
1:D:1366:LYS:N	1:D:1369:GLU:OE1	2.18	0.76
1:D:802:UNK:O	1:D:806:UNK:N	2.19	0.76
1:D:1278:GLU:O	1:D:1281:TYR:N	2.18	0.76
1:D:1290:LYS:O	1:D:1292:LYS:NZ	2.18	0.76
1:D:1597:PRO:O	1:D:1600:ASP:N	2.18	0.76
2:E:578:ARG:NH2	2:E:602:ASP:OD2	2.18	0.76
1:A:1054:LYS:HA	1:A:1057:ASN:HD22	1.51	0.76
1:A:504:ARG:NH2	1:A:535:MET:HE2	2.00	0.76
1:A:1238:THR:OG1	1:A:1239:GLU:N	2.00	0.76
1:D:128:ARG:NH1	2:E:699:LEU:HD21	2.00	0.76
1:D:225:UNK:HA	1:D:383:UNK:HA	1.67	0.76
1:D:1054:LYS:HA	1:D:1057:ASN:HD22	1.51	0.76
1:A:1231:HIS:HA	1:A:1234:CYS:HB3	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1382:PHE:O	2:B:582:ASN:ND2	2.18	0.76
1:A:1396:ASP:OD2	1:A:1399:LYS:NZ	2.16	0.76
1:A:1601:ARG:NH1	1:A:1605:CYS:HB2	2.00	0.76
1:D:16:ILE:HG23	2:E:707:PRO:HG3	1.65	0.76
1:D:569:PRO:HB2	1:D:574:HIS:HB3	1.65	0.76
1:D:1423:ASN:OD1	1:D:1424:LYS:N	2.18	0.76
2:E:371:PHE:HB3	2:E:378:MET:HE1	1.68	0.76
2:E:667:ASP:OD1	2:E:678:MET:HG2	1.86	0.76
2:E:689:LEU:HA	2:E:692:MET:HG2	1.67	0.76
1:A:37:ILE:HG12	1:A:59:PHE:HZ	1.51	0.76
1:A:225:UNK:HA	1:A:383:UNK:HA	1.67	0.76
1:A:1337:ARG:NH2	1:A:1430:ILE:HA	2.00	0.76
1:A:1566:LEU:O	1:A:1569:LEU:HB3	1.86	0.76
1:D:1341:ASP:H	1:D:1365:GLY:HA3	1.50	0.76
1:A:1433:PHE:O	1:A:1437:ASN:ND2	2.19	0.76
1:D:1363:TYR:HE2	1:D:1369:GLU:CD	1.94	0.76
1:D:1566:LEU:O	1:D:1569:LEU:HB3	1.86	0.76
1:A:1229:ASP:HA	1:A:1232:LEU:HG	1.66	0.76
1:A:1347:TYR:CD2	1:A:1359:LYS:HB2	2.21	0.76
1:A:1423:ASN:OD1	1:A:1424:LYS:N	2.18	0.76
1:D:607:CYS:O	1:D:668:TYR:OH	2.02	0.76
1:D:1337:ARG:NH2	1:D:1430:ILE:HA	2.00	0.76
1:D:1418:HIS:N	1:D:1422:LYS:HE2	2.01	0.76
1:A:1418:HIS:N	1:A:1422:LYS:HE2	2.01	0.76
2:B:645:LEU:HA	2:B:651:GLN:HG3	1.68	0.76
3:C:111:ILE:HG22	3:C:112:LEU:H	1.49	0.76
1:D:510:MET:HB3	1:D:528:ALA:O	1.85	0.76
1:D:1304:LEU:HB3	1:D:1321:ASN:ND2	2.01	0.76
2:E:533:ILE:HD11	2:E:706:ILE:HG12	1.68	0.76
2:E:669:LEU:HA	2:E:672:LEU:HB2	1.66	0.76
2:B:541:GLN:HE21	2:B:686:LEU:HD21	1.51	0.76
1:D:1574:ALA:O	1:D:1578:PRO:HD3	1.85	0.76
1:A:1333:MET:SD	1:A:1429:GLN:HB2	2.26	0.75
1:A:1383:PRO:HB3	2:B:582:ASN:O	1.86	0.75
3:C:17:THR:HG23	3:C:18:CYS:H	1.50	0.75
1:D:37:ILE:HG12	1:D:59:PHE:HZ	1.51	0.75
1:A:1231:HIS:CE1	1:A:1239:GLU:HB2	2.21	0.75
1:A:1384:ASN:CG	1:A:1404:GLN:H	1.94	0.75
1:A:1574:ALA:O	1:A:1578:PRO:HD3	1.85	0.75
1:D:112:GLU:O	1:D:116:GLN:HB2	1.86	0.75
1:D:1231:HIS:HA	1:D:1234:CYS:HB3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1601:ARG:NH1	1:D:1605:CYS:HB2	2.00	0.75
2:E:543:GLU:O	2:E:547:LEU:HG	1.85	0.75
2:E:657:PRO:HG2	2:E:661:GLU:HG3	1.68	0.75
1:A:1304:LEU:HB3	1:A:1321:ASN:ND2	2.01	0.75
1:D:27:LEU:N	1:D:58:ILE:O	2.15	0.75
1:A:1543:PHE:O	1:A:1547:GLU:N	2.14	0.75
1:A:1550:PHE:HD1	1:A:1555:TYR:CG	2.05	0.75
3:C:5:LYS:HG2	3:C:75:THR:HG23	1.69	0.75
1:D:16:ILE:HD13	2:E:701:LEU:HD11	1.68	0.75
1:D:1545:LYS:O	1:D:1549:ALA:N	2.19	0.75
1:A:129:SER:O	1:A:133:SER:N	2.20	0.75
1:A:552:LEU:HA	1:A:594:VAL:O	1.87	0.75
1:A:607:CYS:O	1:A:668:TYR:OH	2.02	0.75
1:A:1366:LYS:N	1:A:1369:GLU:OE1	2.18	0.75
1:A:1441:ARG:HH21	1:A:1470:VAL:N	1.84	0.75
1:A:1516:TYR:HE1	1:A:1522:LEU:HB2	1.52	0.75
3:C:170:ASP:HB3	3:C:171:GLU:OE2	1.87	0.75
1:D:1377:GLN:O	1:D:1380:THR:HB	1.86	0.75
1:D:1550:PHE:HD1	1:D:1555:TYR:CG	2.05	0.75
1:A:15:ALA:HA	1:A:64:ILE:HA	1.69	0.75
1:A:802:UNK:O	1:A:806:UNK:N	2.19	0.75
1:A:1283:THR:HG22	1:A:1287:TYR:CZ	2.22	0.75
1:A:1351:GLY:O	1:A:1404:GLN:NE2	2.20	0.75
1:D:15:ALA:HA	1:D:64:ILE:HA	1.69	0.75
1:D:125:MET:HE1	2:E:698:LEU:HD12	1.68	0.75
1:D:1231:HIS:CE1	1:D:1239:GLU:HB2	2.21	0.75
1:D:1347:TYR:CD2	1:D:1359:LYS:HB2	2.21	0.75
1:A:1363:TYR:HE2	1:A:1369:GLU:CD	1.94	0.75
1:A:1377:GLN:O	1:A:1380:THR:HB	1.86	0.75
3:C:68:ARG:HG2	3:C:72:TYR:CE2	2.22	0.75
1:D:1351:GLY:O	1:D:1404:GLN:NE2	2.20	0.75
1:D:1547:GLU:O	1:D:1552:THR:N	2.18	0.75
2:E:579:LEU:HD21	2:E:583:HIS:CD2	2.21	0.75
1:A:446:VAL:HG23	1:A:478:SER:HB3	1.68	0.75
1:A:1431:ILE:C	1:A:1434:TYR:H	1.94	0.75
1:D:129:SER:O	1:D:133:SER:N	2.20	0.75
2:E:615:ALA:O	2:E:645:LEU:HB2	1.87	0.75
1:A:1040:ASP:C	1:A:1042:LEU:H	1.93	0.75
1:A:1253:TRP:CZ3	1:A:1277:LYS:HD2	2.22	0.75
1:A:1341:ASP:H	1:A:1365:GLY:HA3	1.50	0.75
1:D:442:THR:O	1:D:513:HIS:ND1	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:446:VAL:HG22	1:D:481:TYR:HB3	1.69	0.75
1:D:1196:SER:O	1:D:1196:SER:OG	1.97	0.75
1:D:1413:PRO:O	1:D:1443:HIS:NE2	2.20	0.75
1:D:1477:GLY:O	1:D:1479:LEU:N	2.20	0.75
1:D:1564:ASP:O	1:D:1568:HIS:N	2.15	0.75
2:E:232:LEU:HG	2:E:240:GLN:HE21	1.52	0.75
2:E:691:SER:OG	2:E:692:MET:SD	2.45	0.75
1:A:446:VAL:HG22	1:A:481:TYR:HB3	1.69	0.74
1:A:1352:PHE:CD1	1:A:1404:GLN:HG2	2.22	0.74
1:A:1413:PRO:O	1:A:1443:HIS:NE2	2.20	0.74
1:D:1433:PHE:O	1:D:1437:ASN:ND2	2.19	0.74
3:F:170:ASP:HB3	3:F:171:GLU:OE2	1.87	0.74
1:A:1544:ALA:O	1:A:1547:GLU:HB2	1.85	0.74
1:D:552:LEU:HA	1:D:594:VAL:O	1.87	0.74
1:D:1206:ASN:O	1:D:1209:ASN:N	2.19	0.74
1:D:1384:ASN:CG	1:D:1404:GLN:H	1.94	0.74
3:F:22:SER:O	3:F:162:GLN:NE2	2.18	0.74
1:A:112:GLU:O	1:A:116:GLN:HB2	1.86	0.74
1:A:847:UNK:O	1:A:851:UNK:N	2.21	0.74
1:A:1219:MET:O	1:A:1222:ARG:N	2.20	0.74
1:A:1415:LEU:HD22	1:A:1435:LYS:HD3	1.69	0.74
3:C:8:VAL:O	3:C:16:LYS:NZ	2.17	0.74
1:D:557:LYS:HE2	1:D:558:LYS:HD3	1.69	0.74
1:D:865:UNK:O	1:D:869:UNK:CB	2.35	0.74
1:D:1253:TRP:CZ3	1:D:1277:LYS:HD2	2.22	0.74
1:D:1527:LEU:HB2	1:D:1587:HIS:CE1	2.22	0.74
1:D:1573:ILE:O	1:D:1577:ILE:HG12	1.87	0.74
1:A:746:UNK:O	1:A:750:UNK:N	2.21	0.74
1:A:1547:GLU:O	1:A:1552:THR:N	2.17	0.74
1:D:1333:MET:SD	1:D:1429:GLN:HB2	2.26	0.74
3:F:5:LYS:HG2	3:F:75:THR:HG23	1.69	0.74
1:A:557:LYS:HE2	1:A:558:LYS:HD3	1.69	0.74
1:A:1477:GLY:O	1:A:1479:LEU:N	2.20	0.74
1:D:96:TRP:HD1	2:E:696:LEU:HD22	1.52	0.74
1:D:435:PHE:CE2	1:D:485:LYS:HA	2.22	0.74
1:D:635:UNK:O	1:D:639:UNK:N	2.21	0.74
1:D:1231:HIS:CD2	1:D:1236:ASN:HB2	2.23	0.74
1:D:1346:GLY:H	1:D:1406:ILE:HG23	1.53	0.74
1:D:1516:TYR:HE1	1:D:1522:LEU:HB2	1.52	0.74
1:A:865:UNK:O	1:A:869:UNK:CB	2.35	0.74
1:A:1336:LEU:HD12	3:C:1:MET:HE3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:66:ARG:O	3:C:70:LEU:N	2.20	0.74
3:C:159:ALA:HA	3:C:162:GLN:HA	1.68	0.74
1:D:746:UNK:O	1:D:750:UNK:N	2.21	0.74
1:D:1431:ILE:C	1:D:1434:TYR:H	1.94	0.74
2:E:659:LYS:NZ	2:E:663:CYS:SG	2.57	0.74
1:A:1440:GLN:NE2	1:A:1473:TYR:O	2.21	0.74
1:A:1529:MET:HE2	3:C:56:TRP:NE1	2.03	0.74
3:C:22:SER:O	3:C:162:GLN:NE2	2.18	0.74
1:D:1241:ALA:O	1:D:1244:LEU:N	2.20	0.74
1:D:1418:HIS:H	1:D:1422:LYS:HE2	1.52	0.74
1:A:1504:THR:OG1	1:A:1505:ALA:N	2.18	0.74
1:A:1525:ASN:OD1	1:A:1525:ASN:N	2.20	0.74
1:D:446:VAL:HG23	1:D:478:SER:HB3	1.68	0.74
1:D:1441:ARG:HH21	1:D:1470:VAL:N	1.84	0.74
2:E:613:ILE:HA	2:E:646:TYR:CB	2.17	0.74
1:A:1206:ASN:O	1:A:1209:ASN:N	2.19	0.74
1:A:1241:ALA:O	1:A:1244:LEU:N	2.20	0.74
1:A:1347:TYR:HA	1:A:1352:PHE:CE1	2.22	0.74
1:A:1362:ILE:HB	1:A:1482:PHE:O	1.88	0.74
1:A:1418:HIS:H	1:A:1422:LYS:HE2	1.53	0.74
1:A:1545:LYS:O	1:A:1549:ALA:N	2.19	0.74
1:A:1564:ASP:O	1:A:1568:HIS:N	2.15	0.74
1:D:1340:PRO:HD2	1:D:1436:SER:HB3	1.69	0.74
1:D:1525:ASN:OD1	1:D:1525:ASN:N	2.20	0.74
3:F:68:ARG:HG2	3:F:72:TYR:CE2	2.22	0.74
3:F:159:ALA:HA	3:F:162:GLN:HA	1.68	0.74
1:A:435:PHE:CE2	1:A:485:LYS:HA	2.22	0.74
1:A:1239:GLU:HG3	1:A:1242:TYR:CD1	2.23	0.74
1:D:1071:ARG:HH12	1:D:1106:ALA:HB3	1.52	0.74
1:D:1327:LYS:HE2	1:D:1327:LYS:HA	1.70	0.74
1:D:1347:TYR:HA	1:D:1352:PHE:CE1	2.22	0.74
1:D:1362:ILE:HB	1:D:1482:PHE:O	1.88	0.74
2:B:56:SER:O	2:B:58:ASN:N	2.20	0.73
1:D:1352:PHE:CE1	1:D:1406:ILE:HG13	2.23	0.73
2:E:56:SER:O	2:E:58:ASN:N	2.21	0.73
3:F:92:ASN:O	3:F:96:LYS:N	2.19	0.73
1:A:442:THR:O	1:A:513:HIS:ND1	2.19	0.73
1:A:1070:ILE:O	1:A:1073:MET:HB3	1.88	0.73
1:D:964:GLU:OE1	1:D:966:VAL:N	2.21	0.73
1:D:1089:VAL:HA	1:D:1092:ILE:HD12	1.70	0.73
1:D:1533:GLY:HA3	3:F:39:ASN:OD1	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:657:PRO:CG	2:E:661:GLU:HG3	2.17	0.73
1:D:1098:ILE:HD12	1:D:1099:PRO:HD2	1.69	0.73
1:D:1239:GLU:HG3	1:D:1242:TYR:CD1	2.23	0.73
1:D:1587:HIS:O	1:D:1591:VAL:HG13	1.89	0.73
1:A:65:HIS:HE1	1:A:67:LYS:HB3	1.53	0.73
1:A:635:UNK:O	1:A:639:UNK:N	2.21	0.73
1:A:1071:ARG:HH12	1:A:1106:ALA:HB3	1.52	0.73
1:A:1340:PRO:HD2	1:A:1436:SER:HB3	1.69	0.73
1:A:1573:ILE:O	1:A:1577:ILE:HG12	1.87	0.73
1:D:45:TYR:N	1:D:59:PHE:O	2.22	0.73
1:D:1352:PHE:CD1	1:D:1404:GLN:HG2	2.22	0.73
2:E:545:LEU:HD21	2:E:686:LEU:HD22	1.67	0.73
3:F:66:ARG:O	3:F:70:LEU:N	2.20	0.73
1:A:495:VAL:HG11	1:A:507:LEU:HD11	1.70	0.73
1:A:1420:ARG:HB2	1:D:1313:PHE:HZ	1.53	0.73
1:A:1527:LEU:HB2	1:A:1587:HIS:CE1	2.22	0.73
1:A:1605:CYS:HA	1:A:1608:ASN:ND2	2.04	0.73
2:B:537:LYS:HE2	2:B:694:ILE:HB	1.70	0.73
1:D:1040:ASP:C	1:D:1042:LEU:H	1.93	0.73
1:D:1475:LEU:HD21	1:D:1482:PHE:HE2	1.54	0.73
1:A:45:TYR:N	1:A:59:PHE:O	2.21	0.73
1:A:1231:HIS:CD2	1:A:1236:ASN:HB2	2.23	0.73
1:A:1352:PHE:CE1	1:A:1406:ILE:HG13	2.23	0.73
1:A:1601:ARG:HG3	3:C:66:ARG:HH12	1.52	0.73
1:D:452:VAL:H	1:D:474:ASN:HB2	1.54	0.73
1:D:1440:GLN:NE2	1:D:1473:TYR:O	2.21	0.73
2:E:564:LYS:HA	2:E:653:ASN:O	1.89	0.73
1:A:59:PHE:CD2	1:A:64:ILE:HG13	2.24	0.73
1:A:203:SER:O	1:A:219:UNK:N	2.19	0.73
1:A:1370:ARG:HH21	3:C:44:VAL:HG13	1.53	0.73
1:D:1283:THR:HG22	1:D:1287:TYR:CZ	2.22	0.73
1:A:1044:LEU:HD23	1:A:1052:TYR:HE1	1.54	0.73
1:A:1229:ASP:OD1	1:A:1229:ASP:N	2.19	0.73
3:C:1:MET:CA	3:C:50:PRO:O	2.37	0.73
1:D:1475:LEU:HD21	1:D:1482:PHE:CE2	2.24	0.73
2:E:551:GLN:HA	2:E:554:ASN:HD22	1.54	0.73
3:F:22:SER:CB	3:F:159:ALA:HB1	2.18	0.73
1:A:1332:ILE:HG23	1:A:1337:ARG:HD3	1.71	0.73
1:A:1346:GLY:H	1:A:1406:ILE:HG23	1.52	0.73
1:D:1431:ILE:HG23	1:D:1435:LYS:NZ	2.04	0.73
1:D:1543:PHE:O	1:D:1547:GLU:N	2.14	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1543:PHE:HD1	3:F:37:PHE:HZ	1.37	0.73
2:E:667:ASP:HB3	2:E:677:MET:HG2	1.70	0.73
1:A:104:GLN:O	1:A:108:ALA:N	2.16	0.73
1:A:1200:ARG:O	1:A:1204:THR:OG1	2.05	0.73
1:D:1366:LYS:H	1:D:1369:GLU:CD	1.97	0.73
1:D:1543:PHE:CD1	3:F:37:PHE:HZ	2.06	0.73
1:A:26:GLN:NE2	2:B:716:GLU:OE1	2.22	0.72
1:A:125:MET:HE3	2:B:695:LYS:HD3	1.71	0.72
1:A:1352:PHE:H	1:A:1357:ARG:HE	1.37	0.72
1:A:1587:HIS:O	1:A:1591:VAL:HG13	1.89	0.72
1:A:1610:LYS:HD3	1:A:1611:MET:N	2.03	0.72
3:C:92:ASN:O	3:C:96:LYS:N	2.19	0.72
3:C:170:ASP:C	3:C:174:ARG:HH12	1.97	0.72
1:D:63:PHE:HE2	2:E:713:ILE:HG12	1.54	0.72
1:D:65:HIS:HE1	1:D:67:LYS:HB3	1.54	0.72
1:D:495:VAL:HG11	1:D:507:LEU:HD11	1.70	0.72
1:D:1274:ARG:NH2	1:D:1312:ILE:HD11	2.03	0.72
1:D:1415:LEU:HD22	1:D:1435:LYS:HD3	1.69	0.72
2:E:670:ASN:HD21	2:E:678:MET:HE3	1.53	0.72
1:A:447:GLU:HG3	1:A:477:ARG:CZ	2.19	0.72
1:A:1475:LEU:HD21	1:A:1482:PHE:HE2	1.54	0.72
1:D:59:PHE:CD2	1:D:64:ILE:HG13	2.24	0.72
1:D:1532:ASN:OD1	1:D:1536:ASP:HB2	1.88	0.72
3:F:1:MET:CA	3:F:50:PRO:O	2.37	0.72
1:A:1080:ASN:OD1	1:A:1080:ASN:N	2.22	0.72
1:A:1470:VAL:HG12	1:A:1486:HIS:HB2	1.71	0.72
1:D:847:UNK:O	1:D:851:UNK:N	2.21	0.72
1:D:1044:LEU:HD23	1:D:1052:TYR:HE1	1.54	0.72
1:D:1219:MET:O	1:D:1222:ARG:N	2.20	0.72
1:D:1308:TYR:CB	1:D:1318:LEU:HD22	2.18	0.72
1:D:1396:ASP:OD2	1:D:1399:LYS:NZ	2.16	0.72
1:D:1556:VAL:HG23	1:D:1566:LEU:HG	1.72	0.72
2:E:553:LEU:O	2:E:556:LEU:HB2	1.89	0.72
2:B:189:ASN:HA	2:B:227:GLN:HG3	1.71	0.72
3:C:28:PHE:CG	3:C:29:PRO:HD2	2.24	0.72
1:D:25:PRO:O	1:D:58:ILE:N	2.22	0.72
1:D:447:GLU:HG3	1:D:477:ARG:CZ	2.19	0.72
1:D:1049:HIS:O	1:D:1053:ASN:ND2	2.22	0.72
1:D:1444:TYR:O	1:D:1466:ARG:HA	1.89	0.72
1:D:1610:LYS:HD3	1:D:1611:MET:N	2.03	0.72
1:A:1274:ARG:NH2	1:A:1312:ILE:HD11	2.03	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1556:VAL:HG23	1:A:1566:LEU:HG	1.72	0.72
1:D:1070:ILE:O	1:D:1073:MET:HB3	1.88	0.72
1:D:1443:HIS:HB3	1:D:1466:ARG:NH1	2.04	0.72
1:D:1605:CYS:HA	1:D:1608:ASN:ND2	2.03	0.72
1:A:1366:LYS:H	1:A:1369:GLU:CD	1.97	0.72
1:A:1431:ILE:HG23	1:A:1435:LYS:NZ	2.04	0.72
1:A:1444:TYR:O	1:A:1466:ARG:HA	1.89	0.72
2:B:585:VAL:HA	2:B:609:PRO:HA	1.72	0.72
3:C:94:ARG:HA	3:C:149:ILE:HD13	1.70	0.72
3:F:28:PHE:CG	3:F:29:PRO:HD2	2.24	0.72
3:F:94:ARG:HA	3:F:149:ILE:HD13	1.70	0.72
1:A:1502:MET:HE3	1:A:1546:TYR:CE2	2.25	0.72
3:C:22:SER:CB	3:C:159:ALA:HB1	2.18	0.72
2:E:664:ILE:HG22	2:E:665:TRP:CE2	2.25	0.72
1:A:1327:LYS:HE2	1:A:1327:LYS:HA	1.70	0.72
1:A:1443:HIS:HB3	1:A:1466:ARG:NH1	2.04	0.72
1:A:1542:GLY:H	1:A:1545:LYS:HD2	1.53	0.72
1:D:1229:ASP:OD1	1:D:1229:ASP:N	2.19	0.72
1:A:1098:ILE:HD12	1:A:1099:PRO:HD2	1.69	0.72
1:D:1352:PHE:H	1:D:1357:ARG:HE	1.37	0.72
1:A:1049:HIS:O	1:A:1053:ASN:ND2	2.22	0.72
1:A:1089:VAL:HA	1:A:1092:ILE:HD12	1.70	0.72
1:A:1415:LEU:HD11	1:A:1431:ILE:HD11	1.71	0.72
1:A:1532:ASN:OD1	1:A:1536:ASP:HB2	1.88	0.72
1:A:1565:LYS:HA	1:A:1568:HIS:HD2	1.54	0.72
1:D:773:UNK:O	1:D:777:UNK:N	2.23	0.72
1:D:1332:ILE:HG23	1:D:1337:ARG:HD3	1.71	0.72
1:D:1370:ARG:O	1:D:1374:PHE:HB2	1.90	0.72
1:D:1150:MET:HA	1:D:1153:LEU:HD12	1.72	0.71
1:D:1410:THR:HG21	3:F:26:ASN:ND2	2.05	0.71
1:A:1475:LEU:HD21	1:A:1482:PHE:CE2	2.24	0.71
1:A:1504:THR:O	1:A:1507:GLU:N	2.24	0.71
1:D:19:PHE:O	1:D:29:LEU:N	2.23	0.71
1:D:1415:LEU:HD11	1:D:1431:ILE:HD11	1.71	0.71
1:D:1470:VAL:HG12	1:D:1486:HIS:HB2	1.71	0.71
1:D:1495:LEU:O	1:D:1498:ALA:N	2.23	0.71
1:D:1511:MET:O	1:D:1514:ASN:N	2.24	0.71
2:E:668:GLY:O	2:E:672:LEU:HB2	1.90	0.71
2:E:684:ASN:O	2:E:688:THR:OG1	2.06	0.71
1:A:452:VAL:H	1:A:474:ASN:HB2	1.54	0.71
1:A:548:ASP:HB3	1:A:599:VAL:HG23	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1209:ASN:O	1:A:1212:LYS:HB3	1.90	0.71
1:A:1211:TYR:HA	1:A:1214:ASN:HD21	1.55	0.71
1:A:1308:TYR:CB	1:A:1318:LEU:HD22	2.18	0.71
1:A:1495:LEU:O	1:A:1498:ALA:N	2.23	0.71
3:C:82:PHE:O	3:C:115:THR:N	2.19	0.71
1:D:1308:TYR:CD1	1:D:1318:LEU:HB2	2.25	0.71
3:F:129:LEU:HD23	3:F:132:LYS:NZ	2.06	0.71
1:D:1211:TYR:HB2	1:D:1220:TYR:HD1	1.56	0.71
1:A:25:PRO:O	1:A:58:ILE:N	2.22	0.71
1:A:529:MET:N	1:A:552:LEU:O	2.23	0.71
1:A:1550:PHE:CB	1:A:1566:LEU:HD11	2.20	0.71
2:B:208:MET:HB2	2:B:215:LEU:HD13	1.72	0.71
1:D:1192:MET:HE1	1:D:1200:ARG:HH12	1.56	0.71
1:D:1330:GLU:O	1:D:1334:LYS:HB2	1.91	0.71
1:D:1363:TYR:OH	1:D:1369:GLU:OE2	2.07	0.71
1:D:1386:GLU:N	1:D:1404:GLN:O	2.24	0.71
1:D:1502:MET:HE3	1:D:1546:TYR:CE2	2.25	0.71
1:D:1504:THR:O	1:D:1507:GLU:N	2.24	0.71
1:D:1600:ASP:HA	1:D:1603:GLU:OE1	1.91	0.71
2:E:546:GLU:OE2	2:E:550:GLN:HG3	1.89	0.71
1:A:108:ALA:HB3	1:A:113:ARG:HH22	1.55	0.71
1:A:1192:MET:HE1	1:A:1200:ARG:HH12	1.56	0.71
1:A:1386:GLU:N	1:A:1404:GLN:O	2.24	0.71
1:D:4:TRP:NE1	2:E:719:ASN:O	2.20	0.71
1:D:452:VAL:O	1:D:460:LEU:N	2.24	0.71
1:D:1200:ARG:O	1:D:1204:THR:OG1	2.05	0.71
1:D:1209:ASN:O	1:D:1212:LYS:HB3	1.90	0.71
1:D:1516:TYR:CD1	1:D:1520:GLU:HA	2.26	0.71
1:A:37:ILE:HA	1:A:47:GLY:HA3	1.72	0.71
1:A:452:VAL:O	1:A:460:LEU:N	2.24	0.71
1:A:773:UNK:O	1:A:777:UNK:N	2.23	0.71
1:A:1516:TYR:CD1	1:A:1520:GLU:HA	2.26	0.71
1:D:37:ILE:HA	1:D:47:GLY:HA3	1.72	0.71
1:D:1446:ARG:N	3:F:33:ILE:HD11	2.06	0.71
3:F:170:ASP:C	3:F:174:ARG:HH12	1.97	0.71
1:A:60:PRO:HG3	1:A:63:PHE:CD2	2.26	0.71
1:A:1150:MET:HA	1:A:1153:LEU:HD12	1.72	0.71
3:C:90:PHE:O	3:C:94:ARG:NH2	2.24	0.71
1:D:60:PRO:HG3	1:D:63:PHE:CD2	2.26	0.71
1:D:1008:ALA:HA	1:D:1011:MET:HE2	1.72	0.71
1:D:1305:ALA:HA	1:D:1318:LEU:CD1	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1542:GLY:H	1:D:1545:LYS:HD2	1.53	0.71
3:F:58:THR:HB	3:F:64:TYR:HD2	1.55	0.71
3:F:166:LYS:O	3:F:170:ASP:N	2.24	0.71
1:A:19:PHE:O	1:A:29:LEU:N	2.23	0.71
1:A:1600:ASP:HA	1:A:1603:GLU:OE1	1.91	0.71
3:C:129:LEU:HD23	3:C:132:LYS:NZ	2.06	0.71
1:D:30:GLN:HE21	2:E:536:LEU:HD11	1.56	0.71
1:D:109:SER:C	1:D:110:LYS:HZ2	1.99	0.71
1:D:453:CYS:SG	1:D:459:THR:OG1	2.42	0.71
1:A:499:ILE:HA	1:A:502:MET:HB2	1.72	0.71
1:A:1272:THR:O	1:A:1276:LEU:HG	1.91	0.71
1:A:1510:LEU:O	1:A:1513:ILE:HG12	1.91	0.71
1:A:1583:GLY:HA2	1:A:1586:ILE:HB	1.73	0.71
1:D:1504:THR:OG1	1:D:1505:ALA:N	2.18	0.71
1:D:1550:PHE:CB	1:D:1566:LEU:HD11	2.20	0.71
1:D:1565:LYS:HA	1:D:1568:HIS:HD2	1.54	0.71
2:E:555:ARG:NH1	2:E:558:GLU:OE2	2.24	0.71
1:A:13:GLY:N	1:A:35:VAL:O	2.24	0.70
1:A:144:LEU:O	1:A:147:LYS:N	2.24	0.70
1:A:1493:SER:OG	1:A:1496:GLU:N	2.20	0.70
1:A:1511:MET:O	1:A:1514:ASN:N	2.24	0.70
1:D:529:MET:N	1:D:552:LEU:O	2.23	0.70
1:D:548:ASP:HB3	1:D:599:VAL:HG23	1.73	0.70
1:D:1062:MET:H	1:D:1062:MET:HE3	1.55	0.70
1:D:1565:LYS:HA	1:D:1568:HIS:CD2	2.26	0.70
2:E:276:LEU:HA	2:E:280:ILE:HG12	1.72	0.70
2:E:551:GLN:NE2	2:E:555:ARG:HD3	2.06	0.70
1:D:122:TYR:CE1	2:E:695:LYS:HE3	2.26	0.70
1:D:1043:GLN:HG3	1:D:1044:LEU:HD12	1.74	0.70
1:D:1444:TYR:HE2	1:D:1446:ARG:HD2	1.56	0.70
1:A:999:VAL:O	1:A:1002:ARG:HB2	1.90	0.70
1:A:1308:TYR:CD1	1:A:1318:LEU:HB2	2.25	0.70
1:A:1330:GLU:O	1:A:1334:LYS:HB2	1.91	0.70
1:A:1598:PHE:HB2	3:C:70:LEU:HD13	1.73	0.70
2:B:696:LEU:HA	2:B:699:LEU:HD12	1.74	0.70
1:D:1380:THR:O	2:E:582:ASN:ND2	2.24	0.70
2:E:692:MET:N	2:E:692:MET:SD	2.62	0.70
1:A:994:MET:O	1:A:997:ASN:N	2.24	0.70
1:D:117:VAL:O	1:D:120:MET:N	2.25	0.70
1:D:500:GLU:H	1:D:500:GLU:CD	1.99	0.70
1:D:1414:VAL:HA	1:D:1443:HIS:CE1	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:TYR:HB3	1:A:63:PHE:CD1	2.27	0.70
1:A:1582:ALA:O	1:A:1585:LYS:HB2	1.92	0.70
3:C:153:LYS:NZ	3:C:171:GLU:H	1.88	0.70
1:D:96:TRP:HE1	2:E:696:LEU:HB3	1.55	0.70
1:D:1080:ASN:OD1	1:D:1080:ASN:N	2.22	0.70
1:D:1211:TYR:HA	1:D:1214:ASN:HD21	1.55	0.70
1:A:1503:SER:O	1:A:1507:GLU:HG2	1.91	0.70
1:D:144:LEU:O	1:D:147:LYS:N	2.24	0.70
1:D:999:VAL:O	1:D:1002:ARG:HB2	1.90	0.70
1:D:1001:LEU:O	1:D:1005:ASN:ND2	2.24	0.70
1:D:1510:LEU:O	1:D:1513:ILE:HG12	1.91	0.70
2:E:586:LEU:HG	2:E:608:LEU:O	1.92	0.70
2:E:592:GLU:HB2	2:E:594:SER:HG	1.57	0.70
1:A:1001:LEU:O	1:A:1005:ASN:ND2	2.24	0.70
1:A:1370:ARG:O	1:A:1374:PHE:HB2	1.90	0.70
1:A:1414:VAL:HA	1:A:1443:HIS:CE1	2.27	0.70
1:A:1592:SER:OG	1:A:1594:ASN:OD1	2.10	0.70
1:D:27:LEU:HD11	1:D:55:LEU:HG	1.73	0.70
1:D:45:TYR:CE2	1:D:64:ILE:HB	2.26	0.70
1:D:1493:SER:OG	1:D:1496:GLU:N	2.20	0.70
2:E:680:ASP:O	2:E:683:ARG:N	2.25	0.70
1:A:1008:ALA:HA	1:A:1011:MET:HE2	1.73	0.70
1:A:1072:ASP:HA	1:A:1075:TYR:CE2	2.27	0.70
1:A:1195:GLU:O	1:A:1197:LYS:N	2.25	0.70
1:A:1363:TYR:OH	1:A:1369:GLU:OE2	2.07	0.70
1:A:1565:LYS:HA	1:A:1568:HIS:CD2	2.26	0.70
3:C:166:LYS:O	3:C:170:ASP:N	2.24	0.70
1:D:13:GLY:N	1:D:35:VAL:O	2.24	0.70
1:D:450:MET:O	1:D:475:GLU:HA	1.92	0.70
1:D:1072:ASP:HA	1:D:1075:TYR:CE2	2.27	0.70
2:E:367:PRO:O	2:E:370:ASP:HB2	1.91	0.70
1:A:453:CYS:SG	1:A:459:THR:OG1	2.42	0.70
1:A:1178:VAL:C	1:A:1181:LEU:HB3	2.17	0.70
1:A:1305:ALA:HA	1:A:1318:LEU:CD1	2.20	0.70
3:C:80:ILE:HD11	3:C:110:ILE:HD12	1.73	0.70
3:C:115:THR:HG22	3:C:116:LYS:H	1.56	0.70
1:D:994:MET:O	1:D:997:ASN:N	2.24	0.70
2:E:477:PHE:O	2:E:481:MET:HG3	1.92	0.70
3:F:115:THR:HG22	3:F:116:LYS:H	1.56	0.70
3:F:139:TYR:O	3:F:142:GLY:N	2.24	0.70
1:A:989:TRP:O	1:A:993:SER:N	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1346:GLY:HA3	1:A:1407:GLN:H	1.57	0.70
1:A:1601:ARG:HG3	3:C:66:ARG:NH1	2.07	0.70
2:B:212:SER:HB2	2:B:215:LEU:HB2	1.74	0.70
1:D:203:SER:O	1:D:207:PRO:N	2.25	0.70
1:D:1438:TYR:H	1:D:1475:LEU:C	2.00	0.70
1:A:111:LYS:HA	1:A:114:PHE:HB3	1.74	0.69
1:A:117:VAL:O	1:A:120:MET:N	2.25	0.69
3:C:139:TYR:O	3:C:142:GLY:N	2.24	0.69
1:D:104:GLN:O	1:D:108:ALA:N	2.16	0.69
1:D:108:ALA:HB3	1:D:113:ARG:HH22	1.55	0.69
1:D:499:ILE:HA	1:D:502:MET:HB2	1.72	0.69
1:D:1178:VAL:C	1:D:1181:LEU:HB3	2.17	0.69
1:D:1469:PHE:HB3	1:D:1484:VAL:HG13	1.74	0.69
2:E:532:PRO:O	2:E:535:GLU:HB2	1.92	0.69
1:A:203:SER:O	1:A:207:PRO:N	2.25	0.69
1:A:1043:GLN:HG3	1:A:1044:LEU:HD12	1.74	0.69
1:A:1428:ASP:C	1:A:1430:ILE:N	2.48	0.69
1:A:1444:TYR:HE2	1:A:1446:ARG:HD2	1.56	0.69
1:D:17:TYR:HB3	1:D:63:PHE:CD1	2.27	0.69
1:D:1385:ALA:HA	1:D:1404:GLN:HB3	1.74	0.69
1:A:27:LEU:HD11	1:A:55:LEU:HG	1.73	0.69
1:A:964:GLU:OE1	1:A:966:VAL:N	2.22	0.69
1:A:1385:ALA:HA	1:A:1404:GLN:HB3	1.74	0.69
1:A:1469:PHE:HB3	1:A:1484:VAL:HG13	1.74	0.69
1:A:1495:LEU:HD22	1:A:1555:TYR:HE2	1.58	0.69
1:A:1536:ASP:OD1	3:C:64:TYR:OH	2.10	0.69
2:B:561:CYS:HA	2:B:576:TYR:HA	1.73	0.69
3:C:145:MET:O	3:C:148:GLU:HB3	1.92	0.69
1:D:1503:SER:O	1:D:1507:GLU:HG2	1.91	0.69
2:E:97:MET:HE1	2:E:154:MET:HB2	1.73	0.69
2:E:209:VAL:HG12	2:E:216:TYR:HA	1.73	0.69
3:F:82:PHE:O	3:F:115:THR:N	2.19	0.69
1:A:45:TYR:CE2	1:A:64:ILE:HB	2.26	0.69
1:A:1005:ASN:H	1:A:1005:ASN:HD22	1.40	0.69
1:A:1534:ILE:HA	3:C:37:PHE:CG	2.27	0.69
3:C:42:ALA:O	3:C:53:LEU:HG	1.93	0.69
1:D:1244:LEU:HD21	1:D:1283:THR:HB	1.74	0.69
1:D:1432:ASN:O	1:D:1436:SER:OG	2.07	0.69
1:D:1495:LEU:HD22	1:D:1555:TYR:HE2	1.57	0.69
2:E:576:TYR:N	2:E:591:LEU:HG	2.06	0.69
3:F:145:MET:O	3:F:148:GLU:HB3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:450:MET:O	1:A:475:GLU:HA	1.92	0.69
1:A:1337:ARG:HH22	1:A:1430:ILE:CA	2.04	0.69
1:A:1471:THR:HA	1:A:1483:GLU:O	1.92	0.69
1:D:2:ALA:O	2:E:719:ASN:ND2	2.25	0.69
1:D:460:LEU:O	1:D:474:ASN:ND2	2.25	0.69
1:D:1051:LYS:O	1:D:1055:ILE:HG12	1.92	0.69
1:D:1195:GLU:O	1:D:1197:LYS:N	2.25	0.69
1:D:1337:ARG:HH22	1:D:1430:ILE:CA	2.04	0.69
2:E:548:ILE:HG21	2:E:682:THR:HB	1.73	0.69
3:F:80:ILE:HD11	3:F:110:ILE:HD12	1.73	0.69
1:A:1359:LYS:HB3	1:A:1483:GLU:OE1	1.93	0.69
1:D:696:UNK:O	1:D:700:UNK:N	2.25	0.69
1:D:1272:THR:O	1:D:1276:LEU:HG	1.91	0.69
1:D:1346:GLY:HA3	1:D:1407:GLN:H	1.57	0.69
1:D:1353:PRO:O	1:D:1356:LEU:N	2.23	0.69
1:A:1051:LYS:O	1:A:1055:ILE:HG12	1.92	0.69
1:A:1252:LYS:HG3	1:A:1273:HIS:CE1	2.28	0.69
1:A:1368:TYR:HD2	3:C:45:MET:CB	2.05	0.69
1:A:1421:PHE:O	1:A:1424:LYS:N	2.26	0.69
2:E:470:MET:HE1	2:E:480:VAL:HA	1.73	0.69
1:A:1062:MET:H	1:A:1062:MET:HE3	1.55	0.69
1:A:1211:TYR:HB2	1:A:1220:TYR:HD1	1.56	0.69
1:A:1239:GLU:HG2	1:A:1478:ILE:CA	2.23	0.69
1:A:1293:MET:HE3	1:A:1476:PRO:HG3	1.75	0.69
1:A:1570:LYS:HA	1:A:1573:ILE:HD12	1.74	0.69
3:C:138:THR:HG1	3:C:141:GLN:H	1.41	0.69
1:D:1293:MET:HE3	1:D:1476:PRO:HG3	1.75	0.69
1:D:1398:VAL:O	1:D:1405:TYR:HD2	1.76	0.69
1:D:1583:GLY:HA2	1:D:1586:ILE:HB	1.73	0.69
2:E:212:SER:HB2	2:E:215:LEU:HB2	1.75	0.69
2:E:537:LYS:O	2:E:541:GLN:HB2	1.92	0.69
1:A:102:TRP:HA	1:A:105:LEU:HG	1.75	0.69
1:A:1410:THR:HG21	3:C:26:ASN:ND2	2.07	0.69
1:D:768:UNK:O	1:D:772:UNK:N	2.26	0.69
1:D:1337:ARG:HH12	1:D:1430:ILE:HA	1.58	0.69
1:D:1570:LYS:HA	1:D:1573:ILE:HD12	1.74	0.69
1:D:1582:ALA:O	1:D:1585:LYS:HB2	1.92	0.69
2:E:188:VAL:HG21	2:E:205:LEU:HD23	1.75	0.69
1:A:571:TYR:HD2	1:A:572:ARG:N	1.91	0.69
1:A:1145:GLY:HA2	1:A:1189:ARG:HG2	1.75	0.69
1:A:1244:LEU:HD21	1:A:1283:THR:HB	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1512:MET:O	1:A:1516:TYR:HD2	1.76	0.69
2:B:560:THR:H	2:B:665:TRP:HZ2	1.41	0.69
1:D:1145:GLY:HA2	1:D:1189:ARG:HG2	1.75	0.69
1:D:1592:SER:OG	1:D:1593:ASP:OD1	2.11	0.69
2:E:652:LEU:HG	2:E:653:ASN:H	1.58	0.69
1:A:696:UNK:O	1:A:700:UNK:N	2.25	0.68
1:A:777:UNK:O	1:A:781:UNK:N	2.27	0.68
1:A:1237:TYR:CD1	1:A:1290:LYS:HD3	2.28	0.68
1:A:1337:ARG:HH12	1:A:1430:ILE:HA	1.58	0.68
3:C:3:ALA:CA	3:C:52:ASN:O	2.33	0.68
3:C:9:VAL:N	3:C:79:LEU:O	2.26	0.68
3:C:120:ARG:HG2	3:C:121:ASP:OD1	1.93	0.68
1:D:1471:THR:HA	1:D:1483:GLU:O	1.92	0.68
1:D:1512:MET:O	1:D:1516:TYR:HD2	1.76	0.68
1:A:768:UNK:O	1:A:772:UNK:N	2.26	0.68
1:A:1398:VAL:O	1:A:1405:TYR:HD2	1.76	0.68
1:D:771:UNK:O	1:D:775:UNK:N	2.27	0.68
1:D:989:TRP:O	1:D:993:SER:N	2.25	0.68
1:D:1188:TYR:CE2	1:D:1192:MET:HB2	2.28	0.68
1:D:1237:TYR:CD1	1:D:1290:LYS:HD3	2.28	0.68
2:E:624:HIS:ND1	2:E:624:HIS:O	2.25	0.68
3:C:58:THR:HB	3:C:64:TYR:HD2	1.55	0.68
1:D:1346:GLY:CA	1:D:1407:GLN:H	2.07	0.68
1:D:1575:TRP:HE3	1:D:1620:ARG:HB3	1.58	0.68
2:E:280:ILE:HA	2:E:286:ILE:HD11	1.73	0.68
2:E:670:ASN:ND2	2:E:678:MET:HE3	2.08	0.68
3:F:9:VAL:N	3:F:79:LEU:O	2.26	0.68
1:A:1508:LYS:O	1:A:1512:MET:HG2	1.92	0.68
1:A:1593:ASP:OD1	1:A:1594:ASN:N	2.25	0.68
2:B:305:LEU:HD12	2:B:379:LEU:HD21	1.75	0.68
2:B:313:MET:HG3	2:B:371:PHE:HB3	1.75	0.68
3:C:113:VAL:HA	3:C:155:LEU:O	1.93	0.68
1:D:1241:ALA:C	1:D:1245:LEU:HD12	2.18	0.68
1:D:1252:LYS:HG3	1:D:1273:HIS:CE1	2.28	0.68
1:D:1296:GLU:HA	1:D:1299:SER:CB	2.17	0.68
1:D:1368:TYR:HD2	3:F:45:MET:HB2	1.58	0.68
1:A:157:LYS:C	1:A:157:LYS:HD3	2.19	0.68
1:A:529:MET:HB2	1:A:559:MET:SD	2.34	0.68
1:A:1314:ASP:OD1	1:A:1315:TYR:N	2.27	0.68
1:A:1346:GLY:CA	1:A:1407:GLN:H	2.07	0.68
1:A:1438:TYR:H	1:A:1475:LEU:C	2.00	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1571:ASP:O	1:A:1575:TRP:N	2.17	0.68
2:B:121:ILE:HG12	2:B:126:ILE:HD11	1.74	0.68
3:C:110:ILE:O	3:C:152:VAL:HG23	1.94	0.68
1:D:777:UNK:O	1:D:781:UNK:N	2.27	0.68
1:D:1401:ALA:HB3	1:D:1405:TYR:CE2	2.28	0.68
1:D:1581:GLY:HA2	1:D:1584:ILE:HB	1.74	0.68
2:E:564:LYS:HG3	2:E:575:TRP:CZ2	2.28	0.68
3:F:42:ALA:O	3:F:53:LEU:HG	1.93	0.68
1:A:1241:ALA:C	1:A:1245:LEU:HD12	2.18	0.68
1:A:1592:SER:OG	1:A:1593:ASP:OD1	2.11	0.68
1:D:529:MET:HB2	1:D:559:MET:SD	2.34	0.68
1:D:1473:TYR:HB2	1:D:1482:PHE:CZ	2.29	0.68
1:D:1556:VAL:HG13	1:D:1563:GLN:HG2	1.76	0.68
1:A:460:LEU:O	1:A:474:ASN:ND2	2.25	0.68
1:A:1364:ARG:HD2	1:A:1475:LEU:CD2	2.23	0.68
1:A:1382:PHE:C	2:B:582:ASN:HD22	2.01	0.68
1:A:1473:TYR:HB2	1:A:1482:PHE:CZ	2.29	0.68
1:A:1581:GLY:HA2	1:A:1584:ILE:HB	1.74	0.68
1:D:111:LYS:HA	1:D:114:PHE:HB3	1.74	0.68
1:D:536:LYS:N	1:D:542:LEU:HB2	2.09	0.68
1:D:1214:ASN:OD1	1:D:1215:ASN:N	2.27	0.68
1:D:1345:VAL:HG22	1:D:1347:TYR:CE1	2.28	0.68
2:E:673:LEU:HB2	2:E:675:LYS:HG3	1.75	0.68
1:A:1345:VAL:HG22	1:A:1347:TYR:CE1	2.28	0.68
1:D:86:PRO:HA	1:D:89:GLN:HE21	1.59	0.68
2:E:117:ALA:O	2:E:121:ILE:HG12	1.94	0.68
2:E:578:ARG:HG2	2:E:587:HIS:HB2	1.75	0.68
3:F:110:ILE:O	3:F:152:VAL:HG23	1.94	0.68
1:A:1480:ARG:C	1:A:1481:TRP:HE3	2.02	0.68
2:B:51:LEU:HG	2:B:61:ILE:HD12	1.75	0.68
1:D:157:LYS:C	1:D:157:LYS:HD3	2.19	0.68
1:D:1359:LYS:HB3	1:D:1483:GLU:OE1	1.93	0.68
1:D:1595:LEU:HD13	1:D:1598:PHE:HD2	1.59	0.68
3:F:113:VAL:HA	3:F:155:LEU:O	1.93	0.68
1:A:503:GLN:C	1:A:504:ARG:HE	2.01	0.68
1:A:536:LYS:N	1:A:542:LEU:HB2	2.09	0.68
1:A:1188:TYR:CE2	1:A:1192:MET:HB2	2.28	0.68
1:A:1370:ARG:NH2	3:C:44:VAL:HG13	2.09	0.68
1:A:1433:PHE:HA	1:A:1436:SER:CB	2.24	0.68
1:D:571:TYR:HD2	1:D:572:ARG:N	1.91	0.68
1:D:1421:PHE:O	1:D:1424:LYS:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1508:LYS:O	1:D:1512:MET:HG2	1.92	0.68
2:E:624:HIS:O	2:E:638:LEU:HD11	1.93	0.68
1:A:771:UNK:O	1:A:775:UNK:N	2.27	0.67
1:A:1296:GLU:HA	1:A:1299:SER:CB	2.17	0.67
1:D:102:TRP:HA	1:D:105:LEU:HG	1.75	0.67
1:D:202:MET:O	1:D:206:GLN:N	2.25	0.67
1:D:1537:PRO:CA	3:F:37:PHE:HE1	2.05	0.67
2:E:565:LEU:HB3	2:E:624:HIS:CD2	2.29	0.67
3:F:8:VAL:HG13	3:F:79:LEU:HB2	1.75	0.67
3:F:138:THR:HG1	3:F:141:GLN:H	1.41	0.67
1:A:1601:ARG:HG3	3:C:66:ARG:CZ	2.24	0.67
1:D:1314:ASP:OD1	1:D:1315:TYR:N	2.27	0.67
2:E:552:ARG:O	2:E:555:ARG:HB2	1.94	0.67
2:E:575:TRP:HH2	2:E:654:PHE:CE1	2.12	0.67
1:A:1214:ASN:OD1	1:A:1215:ASN:N	2.27	0.67
1:A:1391:THR:HG23	3:C:28:PHE:CB	2.22	0.67
2:B:305:LEU:HB3	2:B:379:LEU:HD11	1.77	0.67
3:C:32:TYR:O	3:C:34:PRO:HD3	1.94	0.67
3:C:83:SER:H	3:C:89:SER:HB2	1.59	0.67
1:D:503:GLN:C	1:D:504:ARG:HE	2.01	0.67
1:D:1368:TYR:HB2	3:F:45:MET:HB2	1.75	0.67
1:D:1524:ILE:HG13	1:D:1525:ASN:N	2.08	0.67
3:F:32:TYR:O	3:F:34:PRO:HD3	1.94	0.67
3:C:116:LYS:O	3:C:120:ARG:N	2.27	0.67
1:D:1005:ASN:H	1:D:1005:ASN:HD22	1.40	0.67
1:D:1298:ILE:HG13	1:D:1328:PHE:HB2	1.77	0.67
1:D:1364:ARG:HD2	1:D:1475:LEU:CD2	2.23	0.67
1:D:1433:PHE:HA	1:D:1436:SER:CB	2.24	0.67
1:D:1592:SER:OG	1:D:1594:ASN:OD1	2.10	0.67
2:E:548:ILE:HG23	2:E:552:ARG:CZ	2.24	0.67
2:E:551:GLN:O	2:E:554:ASN:N	2.27	0.67
2:E:661:GLU:O	2:E:665:TRP:CD1	2.46	0.67
3:F:111:ILE:HG13	3:F:152:VAL:H	1.60	0.67
1:A:1595:LEU:HD13	1:A:1598:PHE:HD2	1.59	0.67
2:B:232:LEU:HD12	2:B:244:ILE:HD11	1.75	0.67
1:D:118:GLN:NE2	1:D:122:TYR:OH	2.27	0.67
1:D:203:SER:O	1:D:219:UNK:N	2.19	0.67
1:D:1239:GLU:HG2	1:D:1478:ILE:CA	2.23	0.67
1:D:1352:PHE:CZ	1:D:1404:GLN:HA	2.29	0.67
1:D:1421:PHE:HA	1:D:1426:VAL:HG21	1.77	0.67
1:D:1598:PHE:O	1:D:1601:ARG:HB3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:613:ILE:HA	2:E:646:TYR:HB2	1.75	0.67
3:F:90:PHE:O	3:F:94:ARG:NH2	2.24	0.67
1:A:1379:MET:HG3	2:B:582:ASN:HD21	1.60	0.67
1:A:1598:PHE:O	1:A:1601:ARG:HB3	1.95	0.67
3:C:161:THR:HG21	3:C:163:ARG:HH21	1.60	0.67
1:D:97:GLU:O	1:D:101:ILE:HG22	1.95	0.67
1:D:1231:HIS:HE2	1:D:1479:LEU:HD11	1.60	0.67
3:F:64:TYR:HB3	3:F:68:ARG:H	1.60	0.67
3:F:153:LYS:NZ	3:F:171:GLU:H	1.88	0.67
1:A:1539:VAL:HG12	1:A:1540:MET:HE3	1.77	0.67
1:D:1391:THR:HG23	3:F:28:PHE:CB	2.21	0.67
1:D:1593:ASP:OD1	1:D:1594:ASN:N	2.25	0.67
1:A:1544:ALA:HA	1:A:1547:GLU:OE1	1.95	0.67
1:A:1569:LEU:HG	1:A:1573:ILE:HD11	1.76	0.67
3:C:8:VAL:HG13	3:C:79:LEU:HB2	1.76	0.67
1:D:1011:MET:O	1:D:1015:PHE:N	2.27	0.67
1:D:1447:PRO:HG3	3:F:32:TYR:O	1.95	0.67
1:D:1577:ILE:O	1:D:1579:PHE:N	2.28	0.67
2:E:692:MET:O	2:E:695:LYS:HB2	1.95	0.67
3:F:83:SER:H	3:F:89:SER:HB2	1.59	0.67
1:A:1011:MET:O	1:A:1015:PHE:N	2.27	0.67
1:A:1310:MET:HA	1:A:1310:MET:HE2	1.76	0.67
1:A:1524:ILE:HG13	1:A:1525:ASN:N	2.08	0.67
1:A:1575:TRP:HE3	1:A:1620:ARG:HB3	1.58	0.67
1:D:1102:GLU:H	1:D:1102:GLU:CD	2.03	0.67
2:E:189:ASN:HA	2:E:227:GLN:HG3	1.76	0.67
3:F:143:LEU:O	3:F:147:LYS:HG3	1.95	0.67
1:A:40:THR:OG1	1:A:44:TRP:O	2.13	0.67
1:A:302:UNK:HA	1:A:320:UNK:HA	1.77	0.67
1:A:1248:THR:OG1	1:A:1249:TRP:N	2.28	0.67
1:A:1541:GLY:HA3	1:A:1544:ALA:HB3	1.77	0.67
1:A:1547:GLU:HA	1:A:1551:PHE:CB	2.18	0.67
1:A:1556:VAL:HG13	1:A:1563:GLN:HG2	1.76	0.67
2:B:533:ILE:HD11	2:B:706:ILE:HD13	1.77	0.67
2:B:545:LEU:HA	2:B:548:ILE:HD12	1.77	0.67
3:C:64:TYR:HB3	3:C:68:ARG:H	1.60	0.67
3:C:111:ILE:HG13	3:C:152:VAL:H	1.60	0.67
1:D:140:GLU:HG2	2:E:511:TYR:OH	1.95	0.67
1:D:675:ASP:O	1:D:679:GLN:N	2.28	0.67
1:D:1300:LEU:O	1:D:1300:LEU:HG	1.89	0.67
1:D:1368:TYR:CD2	3:F:45:MET:HB2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1437:ASN:O	1:D:1439:VAL:HG13	1.95	0.67
2:E:244:ILE:HB	2:E:293:GLN:HE21	1.58	0.67
3:F:120:ARG:HG2	3:F:121:ASP:OD1	1.93	0.67
2:B:616:VAL:HG11	2:B:669:LEU:HD13	1.76	0.66
1:D:1116:LEU:HA	1:D:1125:PHE:HB3	1.77	0.66
1:D:1179:LYS:O	1:D:1183:GLU:HB2	1.95	0.66
1:D:1418:HIS:HB2	1:D:1422:LYS:HZ3	1.59	0.66
1:D:1480:ARG:C	1:D:1481:TRP:HE3	2.02	0.66
3:F:6:CYS:SG	3:F:55:LEU:HD23	2.35	0.66
1:A:97:GLU:O	1:A:101:ILE:HG22	1.95	0.66
1:A:519:SER:O	1:A:520:LYS:HG3	1.95	0.66
1:A:1102:GLU:H	1:A:1102:GLU:CD	2.03	0.66
1:A:1352:PHE:CZ	1:A:1404:GLN:HA	2.29	0.66
2:B:199:GLN:HE22	2:B:239:ILE:HG12	1.59	0.66
1:D:85:ILE:HG22	1:D:89:GLN:HE22	1.59	0.66
1:D:519:SER:O	1:D:520:LYS:HG3	1.95	0.66
1:D:1572:LEU:O	1:D:1576:GLN:N	2.17	0.66
2:E:687:ASP:O	2:E:691:SER:HB3	1.95	0.66
3:F:116:LYS:O	3:F:120:ARG:N	2.27	0.66
1:A:500:GLU:H	1:A:500:GLU:CD	2.00	0.66
1:A:1418:HIS:HB2	1:A:1422:LYS:HZ3	1.59	0.66
1:D:1001:LEU:HA	1:D:1004:ILE:HD12	1.78	0.66
1:D:1371:ARG:O	1:D:1374:PHE:HB3	1.96	0.66
1:D:1519:ASP:OD1	1:D:1521:THR:OG1	2.13	0.66
1:D:1553:GLU:N	1:D:1553:GLU:OE1	2.29	0.66
1:A:85:ILE:HG22	1:A:89:GLN:HE22	1.59	0.66
1:A:86:PRO:HA	1:A:89:GLN:HE21	1.59	0.66
1:A:675:ASP:O	1:A:679:GLN:N	2.28	0.66
1:A:1401:ALA:HB3	1:A:1405:TYR:CE2	2.28	0.66
2:E:552:ARG:HH11	2:E:552:ARG:N	1.92	0.66
2:E:658:ASP:N	2:E:661:GLU:HB2	2.09	0.66
1:A:18:ASN:HA	1:A:30:GLN:C	2.20	0.66
1:A:1308:TYR:OH	1:A:1317:LEU:HB2	1.96	0.66
1:A:1577:ILE:O	1:A:1579:PHE:N	2.28	0.66
3:C:143:LEU:O	3:C:147:LYS:HG3	1.95	0.66
1:D:40:THR:OG1	1:D:44:TRP:O	2.13	0.66
2:E:398:ILE:O	2:E:402:ASN:ND2	2.28	0.66
2:E:473:THR:OG1	2:E:476:ASP:OD1	2.12	0.66
1:A:1421:PHE:HA	1:A:1426:VAL:HG21	1.76	0.66
1:A:1437:ASN:O	1:A:1439:VAL:HG13	1.95	0.66
1:A:1524:ILE:HB	1:A:1587:HIS:CE1	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:610:VAL:O	2:B:613:ILE:HG12	1.96	0.66
3:C:6:CYS:SG	3:C:55:LEU:HD23	2.35	0.66
1:D:1195:GLU:H	1:D:1200:ARG:HE	1.43	0.66
1:D:1524:ILE:HB	1:D:1587:HIS:CE1	2.31	0.66
2:E:542:PRO:O	2:E:545:LEU:HB2	1.95	0.66
3:F:161:THR:HG21	3:F:163:ARG:HH21	1.60	0.66
1:A:118:GLN:NE2	1:A:122:TYR:OH	2.27	0.66
1:A:1195:GLU:H	1:A:1200:ARG:HE	1.43	0.66
2:B:697:ARG:HH12	2:B:701:LEU:HB3	1.61	0.66
1:D:1014:LYS:O	1:D:1019:THR:OG1	2.13	0.66
1:D:1248:THR:OG1	1:D:1249:TRP:N	2.28	0.66
1:D:1384:ASN:HB3	1:D:1404:GLN:OE1	1.95	0.66
1:D:1541:GLY:HA3	1:D:1544:ALA:HB3	1.77	0.66
3:F:23:TYR:HD2	3:F:24:THR:HG22	1.61	0.66
1:A:105:LEU:O	1:A:109:SER:N	2.29	0.66
1:A:202:MET:O	1:A:206:GLN:N	2.25	0.66
1:A:446:VAL:HG11	1:A:487:PRO:HG3	1.77	0.66
1:A:499:ILE:HD11	1:A:608:SER:HA	1.78	0.66
1:A:1179:LYS:O	1:A:1183:GLU:HB2	1.95	0.66
1:A:1231:HIS:HE2	1:A:1479:LEU:HD11	1.60	0.66
1:A:1298:ILE:HG13	1:A:1328:PHE:HB2	1.77	0.66
1:A:1371:ARG:O	1:A:1374:PHE:HB3	1.96	0.66
1:D:448:VAL:HG22	1:D:511:PHE:CD1	2.31	0.66
1:D:1308:TYR:CG	1:D:1318:LEU:HD13	2.31	0.66
1:D:1539:VAL:HG12	1:D:1540:MET:HE3	1.77	0.66
2:E:687:ASP:O	2:E:691:SER:CB	2.44	0.66
1:A:23:GLY:N	1:A:26:GLN:O	2.29	0.66
1:A:448:VAL:HG22	1:A:511:PHE:CD1	2.31	0.66
1:A:1320:GLN:O	1:A:1324:GLN:NE2	2.29	0.66
1:A:1384:ASN:HB3	1:A:1404:GLN:OE1	1.95	0.66
3:C:167:THR:O	3:C:170:ASP:HB2	1.96	0.66
2:E:545:LEU:O	2:E:549:LYS:HG3	1.95	0.66
2:E:643:SER:CA	2:E:652:LEU:O	2.41	0.66
3:F:3:ALA:CA	3:F:52:ASN:O	2.33	0.66
3:F:80:ILE:CD1	3:F:110:ILE:HG23	2.26	0.66
3:F:163:ARG:HD2	3:F:164:GLY:N	2.11	0.66
1:A:568:LEU:HD11	1:A:575:VAL:HG22	1.78	0.66
1:A:1217:GLU:O	1:A:1220:TYR:HB3	1.96	0.66
3:C:72:TYR:HA	3:C:78:PHE:HZ	1.61	0.66
3:C:80:ILE:CD1	3:C:110:ILE:HG23	2.26	0.66
1:D:499:ILE:HD11	1:D:608:SER:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1217:GLU:O	1:D:1220:TYR:HB3	1.96	0.66
1:D:1340:PRO:CD	1:D:1436:SER:HB3	2.26	0.66
1:D:1544:ALA:HA	1:D:1547:GLU:OE1	1.95	0.66
1:D:1571:ASP:O	1:D:1575:TRP:N	2.17	0.66
2:E:208:MET:HB2	2:E:215:LEU:HD13	1.78	0.66
1:A:1014:LYS:O	1:A:1019:THR:OG1	2.13	0.65
1:A:1363:TYR:HA	1:A:1481:TRP:CB	2.27	0.65
1:A:1412:GLN:HB3	1:A:1443:HIS:HD2	1.61	0.65
1:D:35:VAL:HG12	1:D:49:LEU:HA	1.78	0.65
1:D:105:LEU:O	1:D:109:SER:N	2.29	0.65
1:D:302:UNK:HA	1:D:320:UNK:HA	1.77	0.65
1:D:716:UNK:O	1:D:720:UNK:N	2.29	0.65
1:D:1130:ASN:O	1:D:1216:ARG:NH1	2.23	0.65
1:D:1308:TYR:OH	1:D:1317:LEU:HB2	1.96	0.65
1:D:1310:MET:HE2	1:D:1310:MET:HA	1.76	0.65
2:E:129:LEU:HD22	2:E:158:THR:HG23	1.77	0.65
1:A:1248:THR:HG22	1:A:1280:LEU:HD21	1.79	0.65
1:A:1438:TYR:HA	1:A:1474:LYS:NZ	2.11	0.65
3:C:42:ALA:HB3	3:C:53:LEU:HD11	1.78	0.65
1:D:18:ASN:HA	1:D:30:GLN:C	2.20	0.65
1:A:101:ILE:HG13	1:A:101:ILE:O	1.93	0.65
1:A:506:HIS:CD2	1:A:508:ARG:HG2	2.32	0.65
1:A:1519:ASP:OD1	1:A:1521:THR:OG1	2.13	0.65
1:A:1553:GLU:N	1:A:1553:GLU:OE1	2.29	0.65
3:C:87:PRO:HB3	3:C:137:ILE:HD11	1.79	0.65
1:D:6:LYS:HA	1:D:39:GLU:HA	1.79	0.65
1:D:597:ARG:HG2	1:D:598:ASP:N	2.11	0.65
1:D:1248:THR:HG22	1:D:1280:LEU:HD21	1.79	0.65
1:D:1502:MET:O	1:D:1505:ALA:N	2.29	0.65
2:E:572:ASP:CG	2:E:590:ASP:HB3	2.22	0.65
3:F:72:TYR:HA	3:F:78:PHE:HZ	1.62	0.65
1:A:95:LEU:HD22	1:A:121:MET:HG2	1.78	0.65
1:A:1296:GLU:HG2	1:A:1297:ALA:N	2.11	0.65
1:A:1308:TYR:CG	1:A:1318:LEU:HD13	2.31	0.65
1:A:1570:LYS:O	1:A:1574:ALA:N	2.27	0.65
3:C:23:TYR:HD2	3:C:24:THR:HG22	1.61	0.65
3:C:69:PRO:HA	3:C:72:TYR:HD2	1.61	0.65
1:D:463:ALA:H	1:D:474:ASN:N	1.94	0.65
1:D:798:UNK:O	1:D:801:UNK:N	2.29	0.65
1:D:1175:VAL:O	1:D:1179:LYS:HB2	1.97	0.65
1:D:1493:SER:OG	1:D:1496:GLU:HG3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1607:LYS:O	1:D:1611:MET:HB3	1.96	0.65
2:E:590:ASP:HB2	2:E:601:HIS:CE1	2.31	0.65
2:E:667:ASP:OD1	2:E:678:MET:N	2.26	0.65
1:A:715:UNK:O	1:A:719:UNK:N	2.29	0.65
1:A:1493:SER:OG	1:A:1496:GLU:HG3	1.96	0.65
1:A:1502:MET:O	1:A:1505:ALA:N	2.29	0.65
1:A:1607:LYS:O	1:A:1611:MET:HB3	1.96	0.65
3:C:2:GLN:HB3	3:C:51:VAL:HG12	1.79	0.65
1:D:23:GLY:N	1:D:26:GLN:O	2.29	0.65
1:D:854:UNK:O	1:D:858:UNK:CB	2.45	0.65
1:D:1303:GLU:N	1:D:1303:GLU:CD	2.54	0.65
1:D:1320:GLN:O	1:D:1324:GLN:NE2	2.29	0.65
1:D:1463:TRP:HB3	1:D:1491:THR:HG22	1.78	0.65
3:F:69:PRO:HA	3:F:72:TYR:HD2	1.61	0.65
3:F:167:THR:O	3:F:170:ASP:HB2	1.96	0.65
1:A:226:UNK:O	1:A:382:UNK:N	2.30	0.65
1:A:781:UNK:O	1:A:784:UNK:CB	2.45	0.65
1:A:1001:LEU:HA	1:A:1004:ILE:HD12	1.78	0.65
3:C:163:ARG:HD2	3:C:164:GLY:N	2.11	0.65
1:D:446:VAL:HG11	1:D:487:PRO:HG3	1.78	0.65
1:D:1253:TRP:HB3	1:D:1311:GLU:OE2	1.97	0.65
1:D:1569:LEU:HG	1:D:1573:ILE:HD11	1.76	0.65
2:E:618:THR:HA	2:E:642:PHE:CB	2.19	0.65
1:A:6:LYS:HA	1:A:39:GLU:HA	1.78	0.65
3:C:68:ARG:HG2	3:C:72:TYR:HE2	1.60	0.65
1:D:95:LEU:HD22	1:D:121:MET:HG2	1.78	0.65
1:D:1247:HIS:C	1:D:1247:HIS:CD2	2.74	0.65
1:D:1363:TYR:HA	1:D:1481:TRP:CB	2.26	0.65
1:D:1424:LYS:HD2	1:D:1425:PRO:N	2.12	0.65
1:D:1474:LYS:O	1:D:1477:GLY:N	2.30	0.65
1:A:85:ILE:HB	1:A:86:PRO:HD3	1.79	0.65
1:A:1042:LEU:HD13	1:A:1046:GLN:HB2	1.79	0.65
1:A:1116:LEU:HA	1:A:1125:PHE:HB3	1.77	0.65
1:A:1247:HIS:C	1:A:1247:HIS:CD2	2.74	0.65
1:D:568:LEU:HD11	1:D:575:VAL:HG22	1.78	0.65
1:D:715:UNK:O	1:D:719:UNK:N	2.29	0.65
3:F:42:ALA:HB3	3:F:53:LEU:HD11	1.78	0.65
1:A:1253:TRP:HB3	1:A:1311:GLU:OE2	1.97	0.65
1:A:1611:MET:HA	1:A:1614:GLU:OE1	1.96	0.65
2:B:534:LEU:HA	2:B:537:LYS:HG2	1.79	0.65
1:D:5:ARG:O	1:D:40:THR:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1495:LEU:HD22	1:D:1555:TYR:CE2	2.32	0.65
2:E:537:LYS:HB3	2:E:538:GLU:OE1	1.97	0.65
1:A:1231:HIS:ND1	1:A:1240:ALA:N	2.45	0.65
1:A:1275:GLN:NE2	1:A:1278:GLU:OE1	2.30	0.65
1:A:1391:THR:HG23	3:C:28:PHE:CG	2.32	0.65
1:A:1463:TRP:HB3	1:A:1491:THR:HG22	1.78	0.65
1:A:1609:LEU:HD13	1:A:1612:LYS:HD2	1.78	0.65
3:C:14:VAL:HG11	3:C:81:CYS:HB3	1.78	0.65
1:D:1239:GLU:O	1:D:1243:THR:OG1	2.07	0.65
1:D:1275:GLN:NE2	1:D:1278:GLU:OE1	2.30	0.65
1:D:1296:GLU:HG2	1:D:1297:ALA:N	2.11	0.65
1:D:1475:LEU:HA	1:D:1476:PRO:C	2.22	0.65
2:E:241:THR:HA	2:E:293:GLN:HE22	1.61	0.65
3:F:2:GLN:O	3:F:51:VAL:HB	1.97	0.65
1:A:155:GLY:O	1:A:158:ILE:N	2.30	0.64
1:A:1239:GLU:O	1:A:1243:THR:OG1	2.07	0.64
1:D:1470:VAL:HG13	1:D:1485:VAL:CG1	2.26	0.64
1:D:1608:ASN:N	1:D:1608:ASN:OD1	2.30	0.64
2:E:616:VAL:HG22	2:E:644:ILE:HA	1.79	0.64
2:E:661:GLU:HA	2:E:664:ILE:HB	1.79	0.64
2:E:689:LEU:O	2:E:692:MET:HG2	1.97	0.64
3:F:14:VAL:HG11	3:F:81:CYS:HB3	1.78	0.64
3:F:68:ARG:HG2	3:F:72:TYR:HE2	1.60	0.64
3:F:162:GLN:O	3:F:165:LEU:HD22	1.97	0.64
1:A:1424:LYS:HD2	1:A:1425:PRO:N	2.12	0.64
1:D:110:LYS:C	1:D:113:ARG:HH21	2.05	0.64
1:D:226:UNK:O	1:D:382:UNK:N	2.30	0.64
2:E:661:GLU:CD	2:E:665:TRP:HE1	2.04	0.64
3:F:87:PRO:HB3	3:F:137:ILE:HD11	1.79	0.64
1:A:1305:ALA:CA	1:A:1318:LEU:HD11	2.26	0.64
2:B:697:ARG:NH1	2:B:701:LEU:HB3	2.13	0.64
1:D:96:TRP:O	1:D:100:SER:OG	2.16	0.64
1:D:781:UNK:O	1:D:784:UNK:CB	2.45	0.64
1:D:1412:GLN:HB3	1:D:1443:HIS:HD2	1.61	0.64
1:D:1471:THR:HG22	1:D:1483:GLU:O	1.98	0.64
2:E:604:LEU:O	2:E:606:ASP:N	2.29	0.64
1:A:597:ARG:HG2	1:A:598:ASP:N	2.11	0.64
1:A:1274:ARG:O	1:A:1277:LYS:HB3	1.98	0.64
1:A:1340:PRO:CD	1:A:1436:SER:HB3	2.26	0.64
1:A:1447:PRO:HD2	3:C:31:GLU:HB2	1.79	0.64
1:D:155:GLY:O	1:D:158:ILE:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1077:LEU:HB3	1:D:1080:ASN:CG	2.22	0.64
1:D:1609:LEU:HD13	1:D:1612:LYS:HD2	1.78	0.64
1:A:497:VAL:H	1:A:502:MET:HE3	1.63	0.64
1:A:798:UNK:O	1:A:801:UNK:N	2.29	0.64
1:A:1175:VAL:O	1:A:1179:LYS:HB2	1.97	0.64
1:A:1342:TYR:HB3	1:A:1363:TYR:O	1.98	0.64
1:A:1352:PHE:N	1:A:1357:ARG:HH21	1.96	0.64
1:A:1474:LYS:O	1:A:1477:GLY:N	2.30	0.64
3:C:127:GLU:O	3:C:131:GLU:HG2	1.98	0.64
1:D:37:ILE:HG12	1:D:59:PHE:CZ	2.32	0.64
1:D:1042:LEU:HD13	1:D:1046:GLN:HB2	1.79	0.64
1:D:1231:HIS:ND1	1:D:1240:ALA:N	2.45	0.64
1:D:1342:TYR:HB3	1:D:1363:TYR:O	1.98	0.64
2:E:557:VAL:HG13	2:E:579:LEU:HB3	1.79	0.64
2:E:563:ARG:HE	2:E:655:ILE:HG21	1.62	0.64
2:E:667:ASP:HA	2:E:670:ASN:HB2	1.78	0.64
3:F:17:THR:O	3:F:21:ILE:HG13	1.98	0.64
1:A:450:MET:N	1:A:476:TYR:O	2.31	0.64
1:A:463:ALA:H	1:A:474:ASN:N	1.94	0.64
1:A:716:UNK:O	1:A:720:UNK:N	2.29	0.64
1:A:822:UNK:O	1:A:825:UNK:N	2.31	0.64
1:A:1303:GLU:N	1:A:1303:GLU:CD	2.54	0.64
1:A:1337:ARG:NH1	1:A:1430:ILE:HA	2.12	0.64
1:A:1537:PRO:HB3	1:A:1543:PHE:CE1	2.33	0.64
3:C:17:THR:O	3:C:21:ILE:HG13	1.98	0.64
3:C:100:GLU:HA	3:C:103:HIS:HB3	1.80	0.64
1:D:1055:ILE:O	1:D:1059:TYR:N	2.21	0.64
1:A:1169:LYS:HA	1:A:1172:GLU:HG3	1.80	0.64
1:A:1304:LEU:HD11	1:A:1308:TYR:HE2	1.63	0.64
1:A:1438:TYR:HA	1:A:1475:LEU:H	1.62	0.64
1:A:1475:LEU:HA	1:A:1476:PRO:C	2.22	0.64
1:A:1608:ASN:N	1:A:1608:ASN:OD1	2.30	0.64
2:B:244:ILE:HG13	2:B:290:MET:HE1	1.79	0.64
3:C:158:SER:O	3:C:161:THR:OG1	2.14	0.64
1:D:450:MET:N	1:D:476:TYR:O	2.31	0.64
1:D:506:HIS:CD2	1:D:508:ARG:HG2	2.31	0.64
1:D:1080:ASN:O	1:D:1083:CYS:N	2.31	0.64
1:D:1352:PHE:N	1:D:1357:ARG:HH21	1.96	0.64
1:D:1438:TYR:HA	1:D:1474:LYS:NZ	2.11	0.64
1:D:1570:LYS:O	1:D:1574:ALA:N	2.27	0.64
1:D:1601:ARG:HG3	3:F:66:ARG:HH22	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1611:MET:HA	1:D:1614:GLU:OE1	1.96	0.64
2:E:545:LEU:C	2:E:549:LYS:HZ3	2.05	0.64
2:E:619:GLY:HA2	2:E:639:GLU:HA	1.79	0.64
1:A:1077:LEU:HB3	1:A:1080:ASN:CG	2.22	0.64
1:A:1176:ASN:OD1	1:A:1177:LEU:N	2.31	0.64
1:A:1383:PRO:C	2:B:584:LYS:HD3	2.22	0.64
2:B:10:VAL:HG11	2:B:75:LEU:HD12	1.79	0.64
1:D:1133:ILE:HG22	1:D:1137:ASP:OD2	1.97	0.64
1:D:1176:ASN:OD1	1:D:1177:LEU:N	2.31	0.64
1:D:1512:MET:SD	1:D:1512:MET:N	2.69	0.64
2:E:551:GLN:HE22	2:E:555:ARG:HD3	1.60	0.64
2:E:637:VAL:HA	2:E:640:LEU:HB2	1.80	0.64
2:E:660:HIS:CE1	2:E:664:ILE:HG13	2.32	0.64
1:A:35:VAL:HG12	1:A:49:LEU:HA	1.78	0.64
1:A:237:UNK:HA	1:A:263:UNK:N	2.13	0.64
1:A:1470:VAL:O	1:A:1485:VAL:N	2.31	0.64
1:A:1572:LEU:O	1:A:1576:GLN:N	2.17	0.64
2:B:502:PHE:O	2:B:506:LEU:HG	1.97	0.64
1:D:874:UNK:O	1:D:878:UNK:N	2.31	0.64
2:E:604:LEU:C	2:E:606:ASP:N	2.56	0.64
3:F:39:ASN:HD22	3:F:57:ASP:N	1.96	0.64
1:A:96:TRP:O	1:A:100:SER:OG	2.16	0.64
1:A:854:UNK:O	1:A:858:UNK:CB	2.45	0.64
1:A:1080:ASN:O	1:A:1083:CYS:N	2.31	0.64
1:D:1175:VAL:HG23	1:D:1176:ASN:N	2.13	0.64
1:D:1337:ARG:NH1	1:D:1430:ILE:HA	2.12	0.64
1:D:1551:PHE:CE2	1:D:1569:LEU:HD23	2.33	0.64
2:E:670:ASN:HA	2:E:675:LYS:CE	2.27	0.64
3:F:158:SER:O	3:F:161:THR:OG1	2.14	0.64
1:A:1130:ASN:O	1:A:1216:ARG:NH1	2.24	0.63
1:A:1182:LEU:O	1:A:1185:LEU:N	2.31	0.63
1:A:1410:THR:HB	3:C:26:ASN:C	2.23	0.63
1:A:1495:LEU:HD22	1:A:1555:TYR:CE2	2.32	0.63
1:D:116:GLN:O	1:D:119:SER:OG	2.15	0.63
1:D:1274:ARG:O	1:D:1277:LYS:HB3	1.97	0.63
1:D:1412:GLN:N	1:D:1443:HIS:O	2.28	0.63
1:A:19:PHE:HB3	1:A:29:LEU:HD12	1.80	0.63
1:A:110:LYS:C	1:A:113:ARG:HH21	2.05	0.63
1:A:1552:THR:O	1:A:1554:GLU:HG2	1.99	0.63
3:C:103:HIS:CD2	3:C:104:HIS:CD2	2.86	0.63
1:D:1182:LEU:O	1:D:1185:LEU:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1569:LEU:O	1:D:1573:ILE:HG13	1.98	0.63
1:A:713:UNK:O	1:A:717:UNK:N	2.31	0.63
1:A:1238:THR:HA	1:A:1288:PHE:CE1	2.33	0.63
1:A:1471:THR:HG22	1:A:1483:GLU:O	1.98	0.63
1:A:1529:MET:SD	3:C:56:TRP:HA	2.38	0.63
1:D:445:ASN:CB	1:D:515:SER:HA	2.27	0.63
1:D:1519:ASP:C	1:D:1520:GLU:HG3	2.23	0.63
3:F:38:ASP:OD1	3:F:40:TYR:OH	2.15	0.63
1:A:1292:LYS:O	1:A:1294:TRP:N	2.32	0.63
1:A:1340:PRO:HB2	1:A:1342:TYR:CE1	2.34	0.63
2:B:670:ASN:O	2:B:675:LYS:N	2.32	0.63
1:D:101:ILE:HG13	1:D:101:ILE:O	1.93	0.63
1:D:122:TYR:HE1	2:E:695:LYS:HE3	1.62	0.63
1:D:1438:TYR:HA	1:D:1475:LEU:H	1.63	0.63
3:F:2:GLN:HB3	3:F:51:VAL:HG12	1.79	0.63
3:F:100:GLU:HA	3:F:103:HIS:HB3	1.80	0.63
3:F:122:ASP:N	3:F:125:THR:OG1	2.32	0.63
3:F:122:ASP:HB3	3:F:125:THR:H	1.64	0.63
1:A:444:ARG:NH2	1:A:448:VAL:HG23	2.14	0.63
1:A:1133:ILE:HG22	1:A:1137:ASP:OD2	1.97	0.63
1:A:1308:TYR:O	1:A:1313:PHE:N	2.29	0.63
1:A:1529:MET:HE2	3:C:56:TRP:CD1	2.33	0.63
3:C:39:ASN:HD22	3:C:57:ASP:N	1.96	0.63
3:C:114:GLY:O	3:C:156:GLU:HG2	1.98	0.63
1:D:822:UNK:O	1:D:825:UNK:N	2.31	0.63
1:D:1073:MET:SD	1:D:1077:LEU:HD21	2.39	0.63
1:D:1240:ALA:O	1:D:1243:THR:HB	1.99	0.63
1:D:1371:ARG:HD3	1:D:1371:ARG:C	2.24	0.63
2:E:551:GLN:OE1	2:E:552:ARG:NH1	2.32	0.63
2:E:560:THR:O	2:E:576:TYR:HA	1.99	0.63
3:F:103:HIS:CD2	3:F:104:HIS:CD2	2.86	0.63
3:F:127:GLU:O	3:F:131:GLU:HG2	1.97	0.63
1:A:5:ARG:NH2	1:A:10:GLU:OE2	2.32	0.63
1:A:116:GLN:O	1:A:119:SER:OG	2.15	0.63
1:A:1221:ILE:O	1:A:1224:LEU:HB3	1.98	0.63
1:A:1342:TYR:N	1:A:1342:TYR:HD1	1.97	0.63
1:A:1372:GLU:OE1	1:A:1372:GLU:N	2.32	0.63
1:A:1441:ARG:HH21	1:A:1470:VAL:H	1.45	0.63
1:A:1506:ASN:O	1:A:1509:ILE:HB	1.98	0.63
2:B:327:LEU:HD11	2:B:385:LEU:HA	1.80	0.63
1:D:571:TYR:CD2	1:D:572:ARG:N	2.67	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:572:ARG:HG2	1:D:576:GLU:CD	2.24	0.63
1:D:1308:TYR:O	1:D:1313:PHE:N	2.29	0.63
1:D:1412:GLN:NE2	1:D:1413:PRO:HD3	2.14	0.63
1:D:1552:THR:O	1:D:1554:GLU:HG2	1.99	0.63
1:A:1175:VAL:HG23	1:A:1176:ASN:N	2.13	0.63
1:A:1242:TYR:CE1	1:A:1288:PHE:HZ	2.17	0.63
1:A:1507:GLU:O	1:A:1511:MET:HG3	1.99	0.63
1:A:1551:PHE:CE2	1:A:1569:LEU:HD23	2.33	0.63
1:A:1569:LEU:O	1:A:1573:ILE:HG13	1.98	0.63
1:A:1592:SER:O	1:A:1596:ARG:N	2.25	0.63
2:B:683:ARG:HH12	2:B:687:ASP:HB2	1.64	0.63
3:C:2:GLN:O	3:C:51:VAL:HB	1.97	0.63
3:C:5:LYS:HA	3:C:56:TRP:HE1	1.63	0.63
3:C:23:TYR:CD2	3:C:24:THR:HG22	2.33	0.63
1:D:19:PHE:HB3	1:D:29:LEU:HD12	1.80	0.63
1:D:424:ASN:H	1:D:609:THR:HG1	1.44	0.63
1:D:447:GLU:OE2	1:D:512:ARG:HG3	1.99	0.63
1:D:1169:LYS:HA	1:D:1172:GLU:HG3	1.80	0.63
1:D:1292:LYS:O	1:D:1294:TRP:N	2.32	0.63
1:D:1367:GLU:HB2	3:F:45:MET:HE1	1.81	0.63
1:D:1602:MET:O	1:D:1605:CYS:N	2.32	0.63
3:F:72:TYR:OH	3:F:100:GLU:HG2	1.99	0.63
3:F:114:GLY:O	3:F:156:GLU:HG2	1.98	0.63
1:A:572:ARG:HG2	1:A:576:GLU:CD	2.24	0.63
1:A:1563:GLN:C	1:A:1566:LEU:HB2	2.23	0.63
3:C:122:ASP:N	3:C:125:THR:OG1	2.32	0.63
3:C:139:TYR:O	3:C:142:GLY:CA	2.47	0.63
1:D:237:UNK:HA	1:D:263:UNK:N	2.13	0.63
1:D:1242:TYR:CE1	1:D:1288:PHE:HZ	2.17	0.63
1:D:1342:TYR:N	1:D:1342:TYR:HD1	1.97	0.63
1:D:1432:ASN:OD1	1:D:1433:PHE:N	2.31	0.63
1:D:1434:TYR:HD1	1:D:1437:ASN:HD22	1.46	0.63
1:D:1475:LEU:HD11	1:D:1482:PHE:HD2	1.64	0.63
3:F:139:TYR:O	3:F:142:GLY:CA	2.47	0.63
1:A:123:ASP:HB2	1:A:127:TRP:CZ2	2.34	0.63
1:A:874:UNK:O	1:A:878:UNK:N	2.31	0.63
1:A:1356:LEU:HD23	1:A:1361:PHE:HE2	1.64	0.63
1:A:1438:TYR:CD2	1:A:1474:LYS:HD2	2.34	0.63
1:A:1568:HIS:HA	1:A:1571:ASP:OD2	1.99	0.63
1:A:1602:MET:O	1:A:1605:CYS:N	2.32	0.63
3:C:162:GLN:O	3:C:165:LEU:HD22	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:51:LYS:NZ	1:D:96:TRP:HH2	1.95	0.63
1:D:450:MET:HG2	1:D:509:PHE:CE2	2.34	0.63
1:D:1238:THR:HA	1:D:1288:PHE:CE1	2.33	0.63
1:D:1608:ASN:O	1:D:1611:MET:HE2	1.99	0.63
1:D:1616:GLU:HG3	1:D:1617:TYR:HD2	1.64	0.63
2:E:424:LEU:HD13	2:E:427:ILE:HD11	1.81	0.63
3:F:7:VAL:HG22	3:F:56:TRP:HB2	1.81	0.63
3:F:117:LEU:HD13	3:F:156:GLU:OE2	1.99	0.63
3:C:7:VAL:HG22	3:C:56:TRP:HB2	1.81	0.62
1:D:497:VAL:H	1:D:502:MET:HE3	1.63	0.62
1:D:1051:LYS:HB3	1:D:1054:LYS:HZ3	1.64	0.62
1:D:1360:VAL:H	1:D:1483:GLU:CD	2.07	0.62
1:D:1556:VAL:HG13	1:D:1563:GLN:CG	2.29	0.62
2:E:534:LEU:HG	2:E:538:GLU:HG2	1.81	0.62
2:E:560:THR:HG21	2:E:661:GLU:CD	2.24	0.62
2:E:576:TYR:H	2:E:591:LEU:HG	1.64	0.62
3:F:5:LYS:HA	3:F:56:TRP:HE1	1.63	0.62
1:A:1107:THR:O	1:A:1110:ILE:N	2.32	0.62
1:A:1252:LYS:C	1:A:1277:LYS:HZ1	2.06	0.62
1:A:1300:LEU:O	1:A:1300:LEU:HG	1.89	0.62
1:A:1412:GLN:N	1:A:1443:HIS:O	2.28	0.62
2:B:564:LYS:N	2:B:575:TRP:HE1	1.97	0.62
1:D:85:ILE:HB	1:D:86:PRO:HD3	1.79	0.62
1:D:1221:ILE:O	1:D:1224:LEU:HB3	1.98	0.62
1:D:1366:LYS:HZ3	1:D:1480:ARG:CD	2.12	0.62
1:D:1372:GLU:OE1	1:D:1372:GLU:N	2.32	0.62
1:D:1470:VAL:O	1:D:1485:VAL:N	2.31	0.62
1:D:1506:ASN:O	1:D:1509:ILE:HB	1.98	0.62
2:E:419:GLU:HG2	2:E:481:MET:SD	2.38	0.62
2:E:686:LEU:HG	2:E:687:ASP:OD1	1.97	0.62
2:E:694:ILE:O	2:E:698:LEU:HG	1.99	0.62
3:F:23:TYR:CD2	3:F:24:THR:HG22	2.33	0.62
1:A:95:LEU:HD21	1:A:124:LEU:HD22	1.81	0.62
1:A:1056:LEU:HD12	1:A:1060:GLY:HA3	1.81	0.62
1:A:1394:PRO:HG2	1:A:1399:LYS:HG2	1.81	0.62
1:A:1516:TYR:HA	1:A:1519:ASP:O	1.99	0.62
3:C:8:VAL:HG13	3:C:79:LEU:CB	2.29	0.62
3:C:166:LYS:HA	3:C:169:PHE:HB2	1.80	0.62
1:D:5:ARG:NH2	1:D:10:GLU:OE2	2.32	0.62
1:D:444:ARG:NH2	1:D:448:VAL:HG23	2.14	0.62
1:D:713:UNK:O	1:D:717:UNK:N	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1304:LEU:HD11	1:D:1308:TYR:HE2	1.63	0.62
2:E:586:LEU:HD12	2:E:608:LEU:HB3	1.81	0.62
1:A:5:ARG:HE	1:A:40:THR:HG23	1.64	0.62
1:A:552:LEU:HD11	1:A:565:TYR:HB2	1.80	0.62
1:A:1073:MET:SD	1:A:1077:LEU:HD21	2.39	0.62
1:A:1353:PRO:O	1:A:1356:LEU:N	2.23	0.62
1:A:1371:ARG:C	1:A:1371:ARG:HD3	2.24	0.62
2:B:586:LEU:HD12	2:B:608:LEU:HB2	1.81	0.62
3:C:72:TYR:OH	3:C:100:GLU:HG2	1.99	0.62
1:D:1107:THR:O	1:D:1110:ILE:N	2.32	0.62
1:D:1524:ILE:O	1:D:1587:HIS:HE1	1.82	0.62
1:D:1563:GLN:C	1:D:1566:LEU:HB2	2.23	0.62
2:E:555:ARG:HA	2:E:558:GLU:OE2	1.99	0.62
3:F:8:VAL:HG13	3:F:79:LEU:CB	2.29	0.62
3:F:49:LYS:C	3:F:51:VAL:HG13	2.25	0.62
1:A:447:GLU:OE2	1:A:512:ARG:HG3	1.99	0.62
1:A:1383:PRO:CA	2:B:584:LYS:HD3	2.30	0.62
1:A:1432:ASN:OD1	1:A:1433:PHE:N	2.31	0.62
3:C:117:LEU:HD13	3:C:156:GLU:OE2	1.99	0.62
1:D:14:VAL:HG21	2:E:700:ASP:C	2.24	0.62
1:D:1212:LYS:HE2	1:D:1213:ASP:HA	1.82	0.62
1:D:1507:GLU:O	1:D:1511:MET:HG3	1.99	0.62
1:D:1537:PRO:HB3	1:D:1543:PHE:CE1	2.33	0.62
2:E:682:THR:OG1	2:E:683:ARG:N	2.31	0.62
1:A:1304:LEU:HD23	1:A:1321:ASN:HB2	1.82	0.62
1:A:1410:THR:OG1	3:C:26:ASN:O	2.16	0.62
2:B:30:LEU:HA	2:B:33:ILE:HD12	1.81	0.62
2:B:579:LEU:HD12	2:B:586:LEU:HD23	1.80	0.62
3:C:49:LYS:O	3:C:51:VAL:HG22	2.00	0.62
1:D:1138:HIS:ND1	1:D:1138:HIS:O	2.33	0.62
1:D:1340:PRO:HB2	1:D:1342:TYR:CE1	2.34	0.62
2:E:533:ILE:O	2:E:536:LEU:N	2.31	0.62
2:E:564:LYS:CG	2:E:575:TRP:CZ2	2.83	0.62
1:A:1441:ARG:HH22	1:A:1486:HIS:HB2	1.64	0.62
1:A:1556:VAL:HG13	1:A:1563:GLN:CG	2.29	0.62
1:D:67:LYS:HE3	2:E:704:ILE:HD11	1.82	0.62
1:D:84:GLU:H	1:D:84:GLU:CD	2.06	0.62
1:D:123:ASP:HB2	1:D:127:TRP:CZ2	2.34	0.62
1:D:1305:ALA:CA	1:D:1318:LEU:HD11	2.26	0.62
2:E:563:ARG:O	2:E:655:ILE:N	2.33	0.62
2:E:564:LYS:HG3	2:E:575:TRP:CE2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1212:LYS:HE2	1:A:1213:ASP:HA	1.82	0.62
1:A:1519:ASP:C	1:A:1520:GLU:HG3	2.23	0.62
1:A:1524:ILE:O	1:A:1587:HIS:HE1	1.83	0.62
2:E:540:ILE:HG22	2:E:544:ILE:HD11	1.81	0.62
2:E:588:TYR:CE2	2:E:605:GLN:HG2	2.35	0.62
3:F:77:VAL:HG13	3:F:109:PRO:HB2	1.80	0.62
1:A:1055:ILE:O	1:A:1059:TYR:N	2.21	0.62
1:A:1225:TYR:O	1:A:1228:ARG:N	2.33	0.62
1:A:1240:ALA:O	1:A:1243:THR:HB	1.99	0.62
1:A:1378:LEU:O	1:A:1381:GLN:N	2.33	0.62
1:A:1543:PHE:CD2	1:A:1544:ALA:N	2.68	0.62
2:B:569:ARG:HD3	2:B:570:ARG:HH21	1.64	0.62
1:D:1252:LYS:C	1:D:1277:LYS:HZ1	2.07	0.62
1:D:1438:TYR:CD2	1:D:1474:LYS:HD2	2.34	0.62
3:F:77:VAL:HA	3:F:108:THR:HG23	1.82	0.62
3:F:87:PRO:HG2	3:F:134:LEU:HB3	1.82	0.62
3:F:164:GLY:O	3:F:167:THR:HB	2.00	0.62
1:A:137:PRO:HD2	1:A:140:GLU:HB2	1.82	0.62
1:A:571:TYR:CD2	1:A:572:ARG:N	2.67	0.62
1:A:1236:ASN:C	1:A:1238:THR:N	2.55	0.62
1:A:1350:GLN:CB	1:A:1402:PRO:HA	2.28	0.62
1:A:1363:TYR:CE2	1:A:1369:GLU:CD	2.77	0.62
1:A:1475:LEU:HD11	1:A:1482:PHE:HD2	1.64	0.62
1:A:1608:ASN:O	1:A:1611:MET:HE2	1.99	0.62
3:C:49:LYS:C	3:C:51:VAL:HG13	2.25	0.62
3:C:77:VAL:HA	3:C:108:THR:HG23	1.82	0.62
3:C:77:VAL:HG13	3:C:109:PRO:HB2	1.80	0.62
3:C:122:ASP:HB3	3:C:125:THR:H	1.64	0.62
3:C:148:GLU:OE2	3:C:149:ILE:HG23	2.00	0.62
1:D:1056:LEU:HD12	1:D:1060:GLY:HA3	1.81	0.62
1:D:1338:PRO:HB3	1:D:1368:TYR:CE2	2.35	0.62
1:D:1348:TYR:O	1:D:1405:TYR:HB2	2.00	0.62
1:D:1394:PRO:HG2	1:D:1399:LYS:HG2	1.81	0.62
2:E:608:LEU:HD11	2:E:646:TYR:CE1	2.35	0.62
1:A:37:ILE:HD13	1:A:45:TYR:CD1	2.35	0.61
1:A:1108:ILE:HD12	1:A:1108:ILE:H	1.65	0.61
1:A:1138:HIS:ND1	1:A:1138:HIS:O	2.33	0.61
1:A:1360:VAL:H	1:A:1483:GLU:CD	2.07	0.61
1:A:1412:GLN:NE2	1:A:1413:PRO:HD3	2.14	0.61
1:D:17:TYR:HD1	2:E:532:PRO:HB3	1.63	0.61
1:D:552:LEU:HD11	1:D:565:TYR:HB2	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1286:GLY:O	1:D:1290:LYS:HD2	2.00	0.61
1:D:1429:GLN:C	1:D:1432:ASN:HD21	2.08	0.61
1:D:1543:PHE:CD2	1:D:1544:ALA:N	2.68	0.61
2:E:526:GLU:HA	2:E:529:GLN:C	2.24	0.61
3:F:49:LYS:O	3:F:51:VAL:HG22	2.00	0.61
3:F:84:LEU:HD13	3:F:120:ARG:HD3	1.82	0.61
3:F:148:GLU:OE2	3:F:149:ILE:HG23	2.00	0.61
3:F:166:LYS:HA	3:F:169:PHE:HB2	1.80	0.61
1:A:37:ILE:HG12	1:A:59:PHE:CZ	2.32	0.61
1:A:1252:LYS:H	1:A:1273:HIS:HE1	1.48	0.61
1:A:1526:PRO:HA	1:A:1529:MET:HE3	1.82	0.61
3:C:44:VAL:HB	3:C:46:VAL:HB	1.81	0.61
1:D:776:UNK:O	1:D:780:UNK:N	2.33	0.61
1:D:1225:TYR:O	1:D:1228:ARG:N	2.32	0.61
1:D:1462:MET:SD	3:F:33:ILE:HG23	2.41	0.61
2:E:409:HIS:HD1	2:E:472:ALA:C	2.08	0.61
3:F:111:ILE:HG22	3:F:112:LEU:N	2.15	0.61
1:A:25:PRO:C	1:A:58:ILE:HG12	2.25	0.61
1:A:447:GLU:HG3	1:A:477:ARG:HB2	1.82	0.61
1:A:450:MET:HG2	1:A:509:PHE:CE2	2.34	0.61
1:A:502:MET:HA	1:A:505:ILE:HG12	1.81	0.61
1:A:1338:PRO:HA	3:C:1:MET:SD	2.40	0.61
1:A:1378:LEU:HD12	1:A:1382:PHE:HD2	1.65	0.61
1:A:1512:MET:N	1:A:1512:MET:SD	2.69	0.61
1:A:1586:ILE:HA	1:A:1589:LYS:NZ	2.16	0.61
2:B:331:ALA:HB1	2:B:399:VAL:HG21	1.82	0.61
3:C:111:ILE:HG23	3:C:153:LYS:H	1.65	0.61
1:D:37:ILE:HD12	1:D:66:ILE:HD11	1.81	0.61
1:D:1356:LEU:HD23	1:D:1361:PHE:HE2	1.64	0.61
1:D:1366:LYS:HD2	1:D:1480:ARG:HD2	1.81	0.61
1:D:1433:PHE:CA	1:D:1436:SER:HB2	2.31	0.61
1:D:1516:TYR:HA	1:D:1519:ASP:O	1.99	0.61
1:A:104:GLN:OE1	1:A:108:ALA:HB2	2.01	0.61
1:A:1212:LYS:HE2	1:A:1213:ASP:CA	2.30	0.61
1:A:1291:GLY:O	1:A:1293:MET:HG2	2.00	0.61
1:A:1347:TYR:HD2	1:A:1359:LYS:HB2	1.63	0.61
1:A:1366:LYS:HD2	1:A:1480:ARG:HD2	1.81	0.61
3:C:66:ARG:NH1	3:C:70:LEU:HD12	2.15	0.61
3:C:111:ILE:HG22	3:C:112:LEU:N	2.15	0.61
1:D:1155:SER:O	1:D:1158:MET:N	2.33	0.61
1:D:1291:GLY:O	1:D:1293:MET:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1341:ASP:O	1:D:1343:PHE:CE2	2.53	0.61
1:D:1396:ASP:HA	1:D:1399:LYS:HG3	1.83	0.61
1:D:1582:ALA:O	1:D:1586:ILE:HG13	2.00	0.61
1:A:105:LEU:HB2	1:A:114:PHE:HD1	1.66	0.61
1:A:1348:TYR:O	1:A:1405:TYR:HB2	2.00	0.61
3:C:8:VAL:HG11	3:C:16:LYS:HD2	1.83	0.61
1:D:510:MET:H	1:D:510:MET:HE2	1.65	0.61
1:D:1196:SER:O	1:D:1198:ASP:N	2.34	0.61
1:D:1295:GLU:CD	1:D:1295:GLU:N	2.50	0.61
1:D:1430:ILE:O	1:D:1433:PHE:N	2.33	0.61
2:E:646:TYR:HH	2:E:650:CYS:HG	1.46	0.61
3:F:111:ILE:HG23	3:F:153:LYS:H	1.65	0.61
1:A:454:ALA:O	1:A:457:GLY:N	2.34	0.61
1:A:1043:GLN:NE2	1:A:1062:MET:SD	2.74	0.61
3:C:84:LEU:HD13	3:C:120:ARG:HD3	1.82	0.61
3:C:91:GLU:C	3:C:94:ARG:HH12	2.07	0.61
1:D:1370:ARG:HG3	1:D:1372:GLU:N	2.16	0.61
2:E:483:VAL:HG12	2:E:487:GLN:HE22	1.66	0.61
1:A:1341:ASP:O	1:A:1343:PHE:CE2	2.53	0.61
1:A:1431:ILE:HG23	1:A:1435:LYS:HZ1	1.65	0.61
1:A:1432:ASN:O	1:A:1436:SER:OG	2.07	0.61
1:A:1434:TYR:HD1	1:A:1437:ASN:HD22	1.46	0.61
1:A:1464:ILE:HB	1:A:1492:ILE:CG1	2.26	0.61
1:A:1577:ILE:HG21	1:A:1610:LYS:HA	1.83	0.61
2:B:414:GLY:O	2:B:418:ILE:HG12	2.00	0.61
3:C:164:GLY:O	3:C:167:THR:HB	2.00	0.61
1:D:5:ARG:HE	1:D:40:THR:HG23	1.64	0.61
1:D:1304:LEU:HD23	1:D:1321:ASN:HB2	1.82	0.61
1:D:1336:LEU:HD12	3:F:1:MET:HE3	1.83	0.61
1:D:1441:ARG:HH22	1:D:1486:HIS:HB2	1.64	0.61
1:D:1577:ILE:HG21	1:D:1610:LYS:HA	1.83	0.61
2:E:543:GLU:O	2:E:546:GLU:HB3	2.01	0.61
3:F:32:TYR:CZ	3:F:34:PRO:HG3	2.36	0.61
3:F:44:VAL:HB	3:F:46:VAL:HB	1.81	0.61
3:F:91:GLU:C	3:F:94:ARG:HH12	2.07	0.61
1:A:1155:SER:O	1:A:1158:MET:N	2.33	0.61
1:A:1338:PRO:HB3	1:A:1368:TYR:CE2	2.35	0.61
1:A:1538:ALA:HB1	3:C:59:ALA:HA	1.83	0.61
1:D:25:PRO:C	1:D:58:ILE:HG12	2.25	0.61
1:D:95:LEU:HD21	1:D:124:LEU:HD22	1.81	0.61
1:D:1378:LEU:O	1:D:1381:GLN:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1378:LEU:HD12	1:D:1382:PHE:HD2	1.65	0.61
1:D:1441:ARG:HH21	1:D:1470:VAL:H	1.44	0.61
1:D:1547:GLU:HA	1:D:1551:PHE:CB	2.18	0.61
1:D:1586:ILE:HA	1:D:1589:LYS:NZ	2.16	0.61
3:F:66:ARG:NH1	3:F:70:LEU:HD12	2.15	0.61
3:F:85:VAL:HG13	3:F:116:LYS:HB3	1.83	0.61
3:F:89:SER:O	3:F:93:VAL:HG13	2.01	0.61
1:A:1429:GLN:C	1:A:1432:ASN:HD21	2.08	0.61
1:A:1430:ILE:O	1:A:1433:PHE:N	2.33	0.61
2:B:549:LYS:HA	2:B:552:ARG:HG2	1.81	0.61
3:C:44:VAL:HG12	3:C:45:MET:N	2.15	0.61
3:C:85:VAL:HG13	3:C:116:LYS:HB3	1.83	0.61
3:C:87:PRO:HG2	3:C:134:LEU:HB3	1.82	0.61
1:D:502:MET:HA	1:D:505:ILE:HG12	1.81	0.61
1:D:1322:LEU:HA	1:D:1325:GLN:CD	2.26	0.61
2:E:155:LEU:HG	2:E:197:ILE:HD12	1.82	0.61
3:F:44:VAL:HG12	3:F:45:MET:N	2.15	0.61
1:A:510:MET:H	1:A:510:MET:HE2	1.65	0.61
1:A:1196:SER:O	1:A:1198:ASP:N	2.34	0.61
1:A:1367:GLU:HB2	3:C:45:MET:CE	2.29	0.61
2:B:591:LEU:HD11	2:B:599:VAL:H	1.66	0.61
1:D:105:LEU:HB2	1:D:114:PHE:HD1	1.66	0.61
1:D:466:VAL:HG23	1:D:476:TYR:CZ	2.36	0.61
1:D:1444:TYR:CE2	1:D:1446:ARG:HB2	2.36	0.61
1:D:1568:HIS:HA	1:D:1571:ASP:OD2	1.99	0.61
2:E:526:GLU:O	2:E:530:SER:OG	2.10	0.61
1:A:37:ILE:HD12	1:A:66:ILE:HD11	1.81	0.60
1:A:48:TYR:HB2	1:A:53:LYS:HA	1.82	0.60
1:A:992:MET:O	1:A:995:VAL:N	2.34	0.60
1:A:1459:PHE:HE1	3:C:34:PRO:HB2	1.64	0.60
1:A:1470:VAL:HG13	1:A:1485:VAL:CG1	2.26	0.60
2:B:660:HIS:O	2:B:664:ILE:HG12	2.00	0.60
3:C:89:SER:O	3:C:93:VAL:HG13	2.01	0.60
1:D:1193:THR:OG1	1:D:1194:ASP:OD1	2.20	0.60
1:D:1363:TYR:CE2	1:D:1369:GLU:CD	2.77	0.60
1:D:1526:PRO:HA	1:D:1529:MET:HE3	1.82	0.60
2:E:544:ILE:HB	2:E:686:LEU:CD1	2.31	0.60
3:F:8:VAL:HG11	3:F:16:LYS:HD2	1.83	0.60
1:A:1418:HIS:C	1:A:1421:PHE:HD2	2.08	0.60
3:C:32:TYR:CZ	3:C:34:PRO:HG3	2.36	0.60
3:C:164:GLY:C	3:C:167:THR:HB	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:137:PRO:HD2	1:D:140:GLU:HB2	1.82	0.60
1:D:1149:TYR:O	1:D:1152:LEU:HD12	2.01	0.60
1:D:1316:GLU:OE1	1:D:1316:GLU:N	2.35	0.60
1:D:1418:HIS:C	1:D:1421:PHE:HD2	2.08	0.60
2:E:588:TYR:HE2	2:E:605:GLN:HG2	1.65	0.60
2:E:601:HIS:ND1	2:E:601:HIS:O	2.33	0.60
2:E:613:ILE:HA	2:E:646:TYR:HB3	1.82	0.60
2:E:683:ARG:HH12	2:E:687:ASP:CG	2.09	0.60
2:E:705:GLN:NE2	2:E:706:ILE:H	1.98	0.60
1:A:1034:VAL:O	1:A:1037:ILE:N	2.34	0.60
1:A:1149:TYR:O	1:A:1152:LEU:HD12	2.01	0.60
1:A:1286:GLY:O	1:A:1290:LYS:HD2	2.00	0.60
1:A:1370:ARG:HG3	1:A:1372:GLU:N	2.16	0.60
2:B:330:ILE:HD13	2:B:388:ALA:HB1	1.83	0.60
3:C:78:PHE:HB2	3:C:110:ILE:CD1	2.31	0.60
3:C:153:LYS:HZ3	3:C:171:GLU:N	1.90	0.60
1:D:992:MET:O	1:D:995:VAL:N	2.34	0.60
3:F:84:LEU:H	3:F:116:LYS:HB2	1.65	0.60
1:A:81:ILE:HD12	1:A:82:PRO:HD2	1.83	0.60
1:A:1242:TYR:O	1:A:1243:THR:C	2.45	0.60
1:A:1529:MET:CG	3:C:56:TRP:HA	2.32	0.60
1:D:37:ILE:HD13	1:D:45:TYR:CD1	2.35	0.60
1:D:104:GLN:OE1	1:D:108:ALA:HB2	2.01	0.60
1:D:454:ALA:O	1:D:457:GLY:N	2.34	0.60
1:D:1034:VAL:O	1:D:1037:ILE:N	2.34	0.60
1:D:1430:ILE:HB	1:D:1434:TYR:CE2	2.37	0.60
1:D:1444:TYR:HE1	3:F:27:ALA:CB	2.14	0.60
2:E:666:THR:HB	2:E:678:MET:SD	2.41	0.60
3:F:35:THR:HG23	3:F:40:TYR:OH	2.02	0.60
1:A:444:ARG:HH22	1:A:448:VAL:HG23	1.66	0.60
1:A:445:ASN:CB	1:A:515:SER:HA	2.27	0.60
1:A:1312:ILE:HG22	1:A:1314:ASP:H	1.66	0.60
1:A:1368:TYR:HB2	3:C:45:MET:HB2	1.84	0.60
1:A:1462:MET:SD	3:C:34:PRO:HD2	2.42	0.60
1:A:1523:PRO:HB2	1:A:1525:ASN:ND2	2.17	0.60
1:D:162:ASP:HB3	1:D:990:MET:HE3	1.84	0.60
1:D:1363:TYR:HA	1:D:1481:TRP:HB3	1.83	0.60
2:E:327:LEU:O	2:E:395:TYR:OH	2.14	0.60
2:E:563:ARG:CB	2:E:655:ILE:HB	2.27	0.60
2:E:638:LEU:HA	2:E:641:ALA:HB3	1.83	0.60
3:F:164:GLY:C	3:F:167:THR:HB	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:SER:HA	1:A:185:HIS:HD2	1.67	0.60
1:A:186:ALA:O	1:A:189:GLU:N	2.34	0.60
1:A:636:UNK:O	1:A:640:UNK:HA	2.02	0.60
1:A:1444:TYR:CE2	1:A:1446:ARG:HB2	2.36	0.60
1:D:1108:ILE:H	1:D:1108:ILE:HD12	1.65	0.60
1:D:1212:LYS:HE2	1:D:1213:ASP:CA	2.30	0.60
1:D:1347:TYR:HD2	1:D:1359:LYS:HB2	1.62	0.60
1:D:1480:ARG:NE	1:D:1481:TRP:CZ3	2.69	0.60
2:E:546:GLU:OE2	2:E:549:LYS:HB2	2.02	0.60
1:A:33:ASP:HB3	1:A:49:LEU:HD13	1.84	0.60
1:A:776:UNK:O	1:A:780:UNK:N	2.33	0.60
1:A:964:GLU:OE1	1:A:966:VAL:HG22	2.01	0.60
1:A:1193:THR:OG1	1:A:1194:ASP:OD1	2.20	0.60
1:A:1363:TYR:HA	1:A:1481:TRP:HB3	1.83	0.60
1:A:1430:ILE:HB	1:A:1434:TYR:CE2	2.37	0.60
1:A:1529:MET:HG3	3:C:56:TRP:HA	1.84	0.60
2:B:454:GLU:O	2:B:458:ILE:HG12	2.02	0.60
1:D:187:HIS:NE2	1:D:991:ALA:HB3	2.17	0.60
1:D:1252:LYS:H	1:D:1273:HIS:HE1	1.48	0.60
2:E:683:ARG:NH1	2:E:687:ASP:CG	2.60	0.60
1:A:481:TYR:CE2	1:A:484:VAL:HB	2.37	0.60
1:A:1351:GLY:HA3	1:A:1404:GLN:HG3	1.83	0.60
1:A:1366:LYS:HZ3	1:A:1480:ARG:CD	2.12	0.60
3:C:35:THR:HG23	3:C:40:TYR:OH	2.02	0.60
1:D:81:ILE:HD12	1:D:82:PRO:HD2	1.84	0.60
1:D:1158:MET:O	1:D:1161:ALA:HB3	2.02	0.60
1:D:1312:ILE:HG22	1:D:1314:ASP:H	1.66	0.60
1:D:1433:PHE:CD1	1:D:1436:SER:HB2	2.37	0.60
1:D:1601:ARG:HD3	1:D:1602:MET:N	2.17	0.60
3:F:8:VAL:CG1	3:F:16:LYS:HD2	2.31	0.60
1:A:187:HIS:NE2	1:A:991:ALA:HB3	2.17	0.60
1:A:1316:GLU:OE1	1:A:1316:GLU:N	2.35	0.60
1:A:1396:ASP:HA	1:A:1399:LYS:HG3	1.83	0.60
3:C:64:TYR:O	3:C:69:PRO:HD2	2.02	0.60
1:D:186:ALA:O	1:D:189:GLU:N	2.34	0.60
1:D:1351:GLY:HA3	1:D:1404:GLN:HG3	1.83	0.60
1:D:1609:LEU:HD12	1:D:1612:LYS:HB2	1.82	0.60
2:E:669:LEU:O	2:E:673:LEU:HD12	2.02	0.60
3:F:153:LYS:HZ3	3:F:171:GLU:N	1.90	0.60
1:A:45:TYR:HE2	1:A:64:ILE:HB	1.65	0.60
1:A:49:LEU:HG	1:A:51:LYS:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1553:GLU:CA	1:A:1556:VAL:HB	2.32	0.60
3:C:159:ALA:C	3:C:162:GLN:H	2.10	0.60
1:D:1236:ASN:C	1:D:1238:THR:N	2.55	0.60
1:D:1343:PHE:HE1	3:F:26:ASN:ND2	2.00	0.60
1:D:1463:TRP:HB3	1:D:1491:THR:CG2	2.32	0.60
2:E:598:GLU:HG3	2:E:600:PRO:HD3	1.83	0.60
2:E:624:HIS:NE2	2:E:641:ALA:HB1	2.16	0.60
1:A:5:ARG:O	1:A:40:THR:N	2.30	0.59
1:A:1480:ARG:NE	1:A:1481:TRP:CZ3	2.69	0.59
1:A:1609:LEU:HD12	1:A:1612:LYS:HB2	1.82	0.59
1:D:49:LEU:HG	1:D:51:LYS:H	1.66	0.59
1:D:184:PHE:HD2	1:D:184:PHE:C	2.10	0.59
1:D:964:GLU:OE1	1:D:966:VAL:HG22	2.01	0.59
1:D:1553:GLU:CA	1:D:1556:VAL:HB	2.32	0.59
1:D:1592:SER:O	1:D:1596:ARG:N	2.25	0.59
3:F:78:PHE:HB2	3:F:110:ILE:CD1	2.31	0.59
1:A:866:UNK:O	1:A:870:UNK:N	2.35	0.59
1:A:1148:GLN:O	1:A:1151:GLN:HB2	2.02	0.59
1:A:1582:ALA:O	1:A:1586:ILE:HG13	2.01	0.59
2:B:229:ILE:HD11	2:B:271:LEU:HD12	1.83	0.59
3:C:84:LEU:H	3:C:116:LYS:HB2	1.65	0.59
1:D:201:GLU:O	1:D:205:ASP:N	2.35	0.59
1:D:636:UNK:O	1:D:640:UNK:HA	2.02	0.59
1:D:1148:GLN:O	1:D:1151:GLN:HB2	2.02	0.59
1:D:1255:ASP:CA	1:D:1273:HIS:HB3	2.30	0.59
1:D:1350:GLN:CB	1:D:1402:PRO:HA	2.27	0.59
1:D:1413:PRO:HB2	1:D:1439:VAL:HG11	1.84	0.59
3:F:7:VAL:H	3:F:75:THR:HG21	1.67	0.59
3:F:155:LEU:O	3:F:156:GLU:HG3	2.02	0.59
1:A:528:ALA:HA	1:A:553:LYS:HB2	1.84	0.59
1:A:968:PHE:HD2	1:A:969:LEU:HD22	1.67	0.59
1:A:1287:TYR:HD2	1:A:1290:LYS:HZ2	1.48	0.59
1:A:1599:HIS:O	1:A:1602:MET:N	2.35	0.59
3:C:8:VAL:CG1	3:C:16:LYS:HD2	2.31	0.59
3:C:28:PHE:CD2	3:C:29:PRO:HD2	2.38	0.59
1:D:48:TYR:HB2	1:D:53:LYS:HA	1.82	0.59
1:D:182:SER:HA	1:D:185:HIS:HD2	1.67	0.59
2:E:562:PHE:O	2:E:574:PHE:HA	2.02	0.59
1:A:162:ASP:HB3	1:A:990:MET:HE3	1.84	0.59
1:A:466:VAL:HG23	1:A:476:TYR:CZ	2.36	0.59
1:A:545:GLY:N	1:A:604:THR:O	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1158:MET:O	1:A:1161:ALA:HB3	2.02	0.59
1:A:1529:MET:HG2	3:C:39:ASN:ND2	2.16	0.59
2:B:139:LEU:HD22	2:B:155:LEU:HB2	1.83	0.59
3:C:62:GLU:N	3:C:62:GLU:OE1	2.36	0.59
1:D:45:TYR:HE2	1:D:64:ILE:HB	1.65	0.59
1:D:182:SER:HA	1:D:185:HIS:CD2	2.37	0.59
1:D:447:GLU:HG3	1:D:477:ARG:HB2	1.82	0.59
1:D:968:PHE:HD2	1:D:969:LEU:HD22	1.67	0.59
1:D:1150:MET:HA	1:D:1153:LEU:HB2	1.84	0.59
1:D:1297:ALA:HB1	1:D:1328:PHE:CE1	2.38	0.59
1:D:1523:PRO:HB2	1:D:1525:ASN:ND2	2.17	0.59
1:D:1599:HIS:O	1:D:1602:MET:N	2.35	0.59
2:E:549:LYS:C	2:E:553:LEU:HD23	2.27	0.59
2:E:617:VAL:HG11	2:E:645:LEU:HD12	1.84	0.59
3:F:28:PHE:CD2	3:F:29:PRO:HD2	2.38	0.59
1:A:1297:ALA:HB1	1:A:1328:PHE:CE1	2.38	0.59
1:A:1413:PRO:HB2	1:A:1439:VAL:HG11	1.84	0.59
1:A:1459:PHE:CE1	3:C:34:PRO:HB2	2.37	0.59
1:A:1464:ILE:CG1	3:C:33:ILE:HG12	2.33	0.59
1:D:1580:LEU:HB2	1:D:1606:PHE:CE1	2.38	0.59
2:E:586:LEU:CD1	2:E:608:LEU:HB3	2.32	0.59
2:E:624:HIS:C	2:E:638:LEU:HD11	2.27	0.59
2:E:644:ILE:O	2:E:651:GLN:HB2	2.03	0.59
1:A:22:SER:N	1:A:26:GLN:O	2.35	0.59
1:A:1051:LYS:HB3	1:A:1054:LYS:HZ3	1.67	0.59
1:A:1236:ASN:HD21	1:A:1480:ARG:HD3	1.68	0.59
1:A:1322:LEU:HA	1:A:1325:GLN:CD	2.26	0.59
1:A:1438:TYR:CG	1:A:1474:LYS:HD2	2.38	0.59
1:A:1463:TRP:HB3	1:A:1491:THR:CG2	2.32	0.59
3:C:112:LEU:HB3	3:C:154:TYR:HD1	1.66	0.59
1:D:22:SER:N	1:D:26:GLN:O	2.35	0.59
1:D:33:ASP:HB3	1:D:49:LEU:HD13	1.84	0.59
1:D:35:VAL:HA	1:D:50:ILE:H	1.67	0.59
1:D:203:SER:C	1:D:219:UNK:H2	2.09	0.59
1:D:1014:LYS:HG3	1:D:1015:PHE:N	2.17	0.59
1:D:1438:TYR:CG	1:D:1474:LYS:HD2	2.38	0.59
2:E:565:LEU:HD13	2:E:624:HIS:CB	2.32	0.59
3:F:1:MET:C	3:F:51:VAL:HA	2.28	0.59
3:F:159:ALA:C	3:F:162:GLN:H	2.10	0.59
1:A:19:PHE:CD2	1:A:60:PRO:HD3	2.38	0.59
1:A:1150:MET:HA	1:A:1153:LEU:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1163:GLU:HB2	1:A:1164:HIS:CE1	2.37	0.59
1:A:1307:GLN:O	1:A:1311:GLU:N	2.36	0.59
1:A:1433:PHE:CA	1:A:1436:SER:HB2	2.31	0.59
1:A:1580:LEU:HB2	1:A:1606:PHE:CE1	2.38	0.59
1:D:444:ARG:HH22	1:D:448:VAL:HG23	1.66	0.59
1:D:795:UNK:O	1:D:798:UNK:N	2.36	0.59
1:D:1211:TYR:HA	1:D:1214:ASN:ND2	2.18	0.59
1:D:1324:GLN:O	1:D:1327:LYS:N	2.35	0.59
1:D:1439:VAL:O	1:D:1440:GLN:NE2	2.35	0.59
2:E:532:PRO:HA	2:E:535:GLU:CD	2.27	0.59
3:F:112:LEU:HB3	3:F:154:TYR:HD1	1.66	0.59
1:A:98:TRP:CH2	1:A:155:GLY:HA3	2.38	0.59
1:A:184:PHE:HD2	1:A:184:PHE:C	2.10	0.59
1:A:203:SER:C	1:A:219:UNK:H2	2.09	0.59
1:A:1396:ASP:O	1:A:1399:LYS:HB2	2.03	0.59
1:A:1463:TRP:CE2	1:A:1494:PRO:HD3	2.38	0.59
1:A:1601:ARG:HD3	1:A:1602:MET:N	2.17	0.59
2:B:209:VAL:HG13	2:B:216:TYR:HB2	1.85	0.59
1:D:497:VAL:HG11	1:D:505:ILE:HD13	1.85	0.59
1:D:1236:ASN:HD21	1:D:1480:ARG:HD3	1.68	0.59
1:D:1444:TYR:O	1:D:1466:ARG:HG2	2.02	0.59
1:D:1546:TYR:HB3	1:D:1569:LEU:HD21	1.84	0.59
2:E:331:ALA:HB1	2:E:399:VAL:HG11	1.84	0.59
2:E:644:ILE:H	2:E:654:PHE:HE2	1.50	0.59
2:E:683:ARG:HG2	2:E:686:LEU:HB3	1.84	0.59
3:F:62:GLU:N	3:F:62:GLU:OE1	2.36	0.59
3:F:64:TYR:O	3:F:69:PRO:HD2	2.02	0.59
1:A:795:UNK:O	1:A:798:UNK:N	2.36	0.59
1:A:1225:TYR:HB3	1:A:1228:ARG:NH2	2.18	0.59
1:A:1430:ILE:HB	1:A:1434:TYR:CZ	2.38	0.59
1:A:1450:ARG:HD2	1:A:1463:TRP:CD2	2.38	0.59
1:A:1529:MET:HE2	3:C:56:TRP:CE2	2.38	0.59
3:C:155:LEU:O	3:C:156:GLU:HG3	2.02	0.59
1:D:19:PHE:CD2	1:D:60:PRO:HD3	2.38	0.59
1:D:481:TYR:CE2	1:D:484:VAL:HB	2.37	0.59
1:D:866:UNK:O	1:D:870:UNK:N	2.35	0.59
1:D:989:TRP:N	1:D:989:TRP:CD1	2.68	0.59
1:D:1454:ASP:OD1	1:D:1454:ASP:N	2.34	0.59
1:D:1463:TRP:CE2	1:D:1494:PRO:HD3	2.38	0.59
2:E:654:PHE:O	2:E:655:ILE:HD13	2.01	0.59
1:A:1054:LYS:HA	1:A:1057:ASN:ND2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1433:PHE:CD1	1:A:1436:SER:HB2	2.37	0.59
2:B:51:LEU:HD11	2:B:75:LEU:HB3	1.84	0.59
3:C:87:PRO:HD2	3:C:132:LYS:HE2	1.85	0.59
1:D:528:ALA:HA	1:D:553:LYS:HB2	1.84	0.59
1:D:1181:LEU:O	1:D:1184:LYS:HB2	2.03	0.59
1:D:1502:MET:HE3	1:D:1546:TYR:HE2	1.67	0.59
2:E:553:LEU:HD13	2:E:556:LEU:CD1	2.30	0.59
2:E:573:LYS:HD2	2:E:593:GLU:HB2	1.85	0.59
1:A:1034:VAL:HG21	1:A:1090:GLY:CA	2.33	0.58
1:A:1181:LEU:O	1:A:1184:LYS:HB2	2.03	0.58
1:A:1223:TYR:O	1:A:1224:LEU:C	2.46	0.58
1:A:1546:TYR:HA	1:A:1550:PHE:CD2	2.38	0.58
1:A:1546:TYR:HB3	1:A:1569:LEU:HD21	1.84	0.58
1:D:4:TRP:HB2	2:E:723:VAL:H	1.68	0.58
1:D:98:TRP:CH2	1:D:155:GLY:HA3	2.38	0.58
1:D:140:GLU:OE1	1:D:140:GLU:HA	2.03	0.58
1:D:428:ILE:HB	1:D:495:VAL:H	1.68	0.58
1:D:1043:GLN:NE2	1:D:1062:MET:SD	2.74	0.58
1:D:1044:LEU:HD23	1:D:1052:TYR:CE1	2.38	0.58
1:D:1348:TYR:N	1:D:1352:PHE:CZ	2.69	0.58
1:D:1375:GLN:HE22	1:D:1406:ILE:HG22	1.68	0.58
1:D:1556:VAL:CG2	1:D:1566:LEU:HG	2.32	0.58
1:A:432:GLN:HG3	1:A:601:SER:N	2.15	0.58
1:A:448:VAL:HG21	1:A:600:PHE:HZ	1.68	0.58
1:A:538:ASP:OD1	1:A:540:THR:OG1	2.15	0.58
1:A:1324:GLN:O	1:A:1327:LYS:N	2.35	0.58
1:A:1556:VAL:CG2	1:A:1566:LEU:HG	2.32	0.58
3:C:1:MET:C	3:C:51:VAL:HA	2.28	0.58
1:D:1450:ARG:HD2	1:D:1463:TRP:CD2	2.38	0.58
2:E:467:TRP:CE2	2:E:472:ALA:HB3	2.38	0.58
2:E:575:TRP:HA	2:E:591:LEU:N	2.15	0.58
1:A:1211:TYR:HA	1:A:1214:ASN:ND2	2.18	0.58
1:A:1353:PRO:HD2	1:A:1356:LEU:HD12	1.85	0.58
1:D:1054:LYS:HA	1:D:1057:ASN:ND2	2.17	0.58
1:D:1396:ASP:O	1:D:1399:LYS:HB2	2.03	0.58
1:D:1428:ASP:C	1:D:1430:ILE:N	2.48	0.58
2:E:544:ILE:HB	2:E:686:LEU:HD12	1.84	0.58
2:E:660:HIS:O	2:E:664:ILE:HG12	2.03	0.58
1:A:1236:ASN:HD21	1:A:1480:ARG:CD	2.17	0.58
1:D:1430:ILE:HB	1:D:1434:TYR:CZ	2.38	0.58
1:A:802:UNK:HA	1:A:805:UNK:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:935:UNK:O	1:A:938:UNK:N	2.37	0.58
1:A:1229:ASP:HA	1:A:1232:LEU:CG	2.34	0.58
1:A:1598:PHE:CD1	1:A:1601:ARG:HD2	2.38	0.58
1:D:1163:GLU:HB2	1:D:1164:HIS:CE1	2.37	0.58
1:D:1431:ILE:HG23	1:D:1435:LYS:HZ1	1.66	0.58
2:E:562:PHE:H	2:E:575:TRP:H	1.52	0.58
1:A:1244:LEU:O	1:A:1247:HIS:HB3	2.04	0.58
1:A:1397:ASP:C	1:A:1400:ASN:H	2.12	0.58
1:A:1439:VAL:O	1:A:1440:GLN:NE2	2.35	0.58
1:A:1444:TYR:O	1:A:1466:ARG:HG2	2.02	0.58
1:D:330:UNK:O	1:D:334:UNK:N	2.37	0.58
1:D:533:LYS:HG3	1:D:533:LYS:O	2.03	0.58
1:D:550:VAL:HB	1:D:575:VAL:HB	1.85	0.58
1:D:1202:SER:O	1:D:1206:ASN:ND2	2.36	0.58
1:D:1505:ALA:O	1:D:1509:ILE:HG13	2.04	0.58
1:D:1546:TYR:HA	1:D:1550:PHE:CD2	2.38	0.58
2:E:549:LYS:O	2:E:552:ARG:N	2.37	0.58
2:E:673:LEU:HD13	2:E:675:LYS:HE2	1.83	0.58
1:A:15:ALA:O	1:A:32:GLY:N	2.29	0.58
1:A:84:GLU:H	1:A:84:GLU:CD	2.06	0.58
1:A:330:UNK:O	1:A:334:UNK:N	2.37	0.58
1:A:989:TRP:N	1:A:989:TRP:CD1	2.68	0.58
1:A:1044:LEU:HD23	1:A:1052:TYR:CE1	2.37	0.58
1:A:1454:ASP:OD1	1:A:1454:ASP:N	2.34	0.58
3:C:7:VAL:H	3:C:75:THR:HG21	1.67	0.58
1:D:1088:MET:HG3	1:D:1092:ILE:HG13	1.86	0.58
1:D:1127:LYS:O	1:D:1131:GLU:N	2.25	0.58
1:D:1295:GLU:N	1:D:1295:GLU:OE1	2.36	0.58
1:D:1464:ILE:HB	1:D:1492:ILE:CG1	2.26	0.58
2:E:419:GLU:O	2:E:423:MET:HG2	2.03	0.58
2:E:553:LEU:O	2:E:556:LEU:N	2.36	0.58
1:A:550:VAL:HB	1:A:575:VAL:HB	1.85	0.58
1:A:1337:ARG:CZ	1:A:1430:ILE:HA	2.34	0.58
1:A:1388:MET:HE2	1:A:1398:VAL:HG12	1.86	0.58
1:D:184:PHE:N	1:D:992:MET:HE1	2.19	0.58
1:D:432:GLN:HG3	1:D:601:SER:N	2.15	0.58
1:D:1598:PHE:CD1	1:D:1601:ARG:HD2	2.38	0.58
1:A:182:SER:HA	1:A:185:HIS:CD2	2.37	0.58
1:A:428:ILE:HB	1:A:495:VAL:H	1.68	0.58
1:A:995:VAL:O	1:A:998:ARG:HB2	2.04	0.58
1:A:1014:LYS:HG3	1:A:1015:PHE:N	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1310:MET:HA	1:A:1310:MET:CE	2.34	0.58
1:A:1413:PRO:HB2	1:A:1439:VAL:HG21	1.86	0.58
1:A:1449:ARG:NH1	1:A:1458:GLU:HB2	2.19	0.58
1:A:1526:PRO:HG2	1:A:1527:LEU:HG	1.85	0.58
1:D:1244:LEU:O	1:D:1247:HIS:HB3	2.04	0.58
1:D:1614:GLU:C	1:D:1618:GLY:H	2.10	0.58
2:E:454:GLU:O	2:E:458:ILE:HG13	2.04	0.58
2:E:514:ILE:HA	2:E:517:ILE:HG22	1.85	0.58
2:E:617:VAL:O	2:E:642:PHE:HD2	1.87	0.58
3:F:135:THR:OG1	3:F:137:ILE:HD13	2.03	0.58
1:A:1132:ILE:HG22	1:A:1136:LEU:CG	2.34	0.58
1:A:1296:GLU:O	1:A:1297:ALA:C	2.45	0.58
1:A:1555:TYR:HA	1:A:1558:ASP:OD2	2.03	0.58
1:D:94:THR:O	1:D:98:TRP:CD1	2.57	0.58
1:D:1225:TYR:HB3	1:D:1228:ARG:NH2	2.18	0.58
1:D:1555:TYR:HA	1:D:1558:ASP:OD2	2.03	0.58
1:D:1606:PHE:C	1:D:1610:LYS:HB3	2.28	0.58
2:E:383:ASN:HD21	2:E:452:PHE:HE2	1.52	0.58
2:E:577:CYS:HA	2:E:588:TYR:HA	1.85	0.58
1:A:497:VAL:HB	1:A:502:MET:HG2	1.86	0.57
1:A:533:LYS:HG3	1:A:533:LYS:O	2.03	0.57
1:A:1188:TYR:HA	1:A:1191:VAL:HG22	1.86	0.57
1:A:1509:ILE:O	1:A:1512:MET:N	2.37	0.57
2:B:53:HIS:HB2	2:B:58:ASN:HA	1.85	0.57
1:D:1066:ILE:O	1:D:1069:SER:OG	2.17	0.57
1:D:1132:ILE:HG22	1:D:1136:LEU:CG	2.34	0.57
1:D:1236:ASN:HD21	1:D:1480:ARG:CD	2.17	0.57
1:D:1307:GLN:O	1:D:1311:GLU:N	2.36	0.57
1:D:1397:ASP:C	1:D:1400:ASN:H	2.12	0.57
1:D:1446:ARG:NE	3:F:31:GLU:HG3	2.19	0.57
1:D:1580:LEU:C	1:D:1584:ILE:HD12	2.29	0.57
2:E:541:GLN:NE2	2:E:683:ARG:NH2	2.49	0.57
1:A:94:THR:O	1:A:98:TRP:CD1	2.57	0.57
1:D:1388:MET:HE2	1:D:1398:VAL:HG12	1.86	0.57
1:D:1509:ILE:O	1:D:1512:MET:N	2.37	0.57
1:D:1587:HIS:O	1:D:1588:GLU:C	2.47	0.57
2:E:295:TYR:O	2:E:299:VAL:HG23	2.04	0.57
2:E:314:ASP:HB3	2:E:317:ASP:HB2	1.85	0.57
2:E:553:LEU:HA	2:E:556:LEU:HD12	1.86	0.57
3:F:6:CYS:O	3:F:56:TRP:N	2.17	0.57
1:A:184:PHE:N	1:A:992:MET:HE1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1252:LYS:HB2	1:A:1252:LYS:NZ	2.19	0.57
1:A:1294:TRP:O	1:A:1297:ALA:HB3	2.05	0.57
1:A:1516:TYR:CE1	1:A:1522:LEU:HB2	2.37	0.57
1:D:1034:VAL:HG21	1:D:1090:GLY:CA	2.33	0.57
1:D:1361:PHE:CE1	1:D:1483:GLU:HB2	2.39	0.57
1:D:1440:GLN:O	1:D:1471:THR:N	2.30	0.57
2:E:139:LEU:HD22	2:E:155:LEU:HB2	1.87	0.57
2:E:526:GLU:HA	2:E:529:GLN:O	2.04	0.57
2:E:576:TYR:CE1	2:E:600:PRO:HA	2.38	0.57
1:A:500:GLU:HA	1:A:503:GLN:CD	2.29	0.57
1:A:1375:GLN:HE22	1:A:1406:ILE:HG22	1.68	0.57
1:A:1467:THR:HG22	1:A:1469:PHE:CE1	2.39	0.57
1:A:1505:ALA:O	1:A:1509:ILE:HG13	2.04	0.57
3:C:6:CYS:O	3:C:56:TRP:N	2.17	0.57
3:C:135:THR:OG1	3:C:137:ILE:HD13	2.03	0.57
1:D:536:LYS:HB3	1:D:538:ASP:HB3	1.87	0.57
1:D:1342:TYR:N	1:D:1342:TYR:CD1	2.71	0.57
1:D:1353:PRO:HD2	1:D:1356:LEU:HD12	1.85	0.57
1:D:1526:PRO:HG2	1:D:1527:LEU:HG	1.85	0.57
2:E:560:THR:HG21	2:E:661:GLU:OE2	2.05	0.57
2:E:670:ASN:O	2:E:675:LYS:N	2.32	0.57
3:F:87:PRO:HD2	3:F:132:LYS:HE2	1.85	0.57
1:A:184:PHE:C	1:A:184:PHE:CD2	2.80	0.57
1:A:1088:MET:HG3	1:A:1092:ILE:HG13	1.86	0.57
1:A:1208:LEU:O	1:A:1211:TYR:N	2.38	0.57
1:A:1580:LEU:C	1:A:1584:ILE:HD12	2.29	0.57
1:A:1586:ILE:HA	1:A:1589:LYS:CE	2.35	0.57
1:D:900:UNK:O	1:D:903:UNK:N	2.38	0.57
1:D:1310:MET:HA	1:D:1310:MET:CE	2.34	0.57
1:D:1499:ILE:HA	1:D:1569:LEU:HD12	1.86	0.57
1:D:1509:ILE:O	1:D:1513:ILE:HG23	2.05	0.57
1:D:1512:MET:HA	1:D:1515:GLN:OE1	2.04	0.57
1:D:1536:ASP:OD1	3:F:64:TYR:OH	2.21	0.57
1:D:1556:VAL:HG13	1:D:1563:GLN:CD	2.30	0.57
2:E:108:ALA:HB3	2:E:157:PHE:HD2	1.68	0.57
2:E:614:LYS:HZ3	2:E:645:LEU:HB3	1.68	0.57
1:A:507:LEU:HB3	1:A:509:PHE:CE1	2.40	0.57
1:A:1178:VAL:O	1:A:1181:LEU:HB3	2.05	0.57
1:A:1512:MET:HA	1:A:1515:GLN:OE1	2.04	0.57
2:B:398:ILE:O	2:B:402:ASN:ND2	2.37	0.57
1:D:450:MET:HA	1:D:509:PHE:CE1	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:819:UNK:O	1:D:823:UNK:CB	2.52	0.57
1:D:935:UNK:O	1:D:938:UNK:N	2.37	0.57
1:D:1208:LEU:O	1:D:1211:TYR:N	2.38	0.57
1:D:1247:HIS:ND1	1:D:1280:LEU:HD13	2.20	0.57
1:D:1252:LYS:NZ	1:D:1252:LYS:HB2	2.19	0.57
1:D:1319:SER:O	1:D:1323:ILE:HG12	2.04	0.57
1:D:1343:PHE:CD1	1:D:1371:ARG:HB2	2.39	0.57
1:D:1607:LYS:O	1:D:1611:MET:CB	2.52	0.57
2:E:184:ILE:O	2:E:188:VAL:HG23	2.04	0.57
2:E:570:ARG:HA	2:E:573:LYS:HZ1	1.70	0.57
3:F:75:THR:HB	3:F:78:PHE:CZ	2.40	0.57
1:A:1201:MET:HG3	1:A:1227:LEU:HD11	1.87	0.57
1:A:1202:SER:O	1:A:1206:ASN:ND2	2.36	0.57
1:A:1348:TYR:N	1:A:1352:PHE:CZ	2.69	0.57
1:A:1450:ARG:NH2	1:A:1491:THR:HB	2.14	0.57
1:A:1499:ILE:HA	1:A:1569:LEU:HD12	1.86	0.57
1:A:1587:HIS:O	1:A:1588:GLU:C	2.47	0.57
1:A:1587:HIS:O	1:A:1589:LYS:N	2.38	0.57
3:C:7:VAL:HB	3:C:78:PHE:CE1	2.40	0.57
1:D:261:UNK:HA	1:D:266:UNK:N	2.20	0.57
1:D:1015:PHE:O	1:D:1022:GLU:N	2.38	0.57
1:D:1229:ASP:HA	1:D:1232:LEU:CG	2.34	0.57
1:D:1296:GLU:O	1:D:1297:ALA:C	2.45	0.57
1:D:1467:THR:HG22	1:D:1469:PHE:CE1	2.39	0.57
1:D:1586:ILE:HA	1:D:1589:LYS:CE	2.35	0.57
2:E:565:LEU:HD13	2:E:624:HIS:HB2	1.86	0.57
3:F:7:VAL:HB	3:F:78:PHE:CE1	2.40	0.57
1:A:497:VAL:HG11	1:A:505:ILE:HD13	1.85	0.57
1:A:819:UNK:O	1:A:823:UNK:CB	2.52	0.57
1:A:900:UNK:O	1:A:903:UNK:N	2.38	0.57
1:A:1015:PHE:O	1:A:1022:GLU:N	2.38	0.57
1:A:1223:TYR:O	1:A:1226:LYS:N	2.37	0.57
1:A:1247:HIS:ND1	1:A:1280:LEU:HD13	2.20	0.57
1:A:1343:PHE:CD1	1:A:1371:ARG:HB2	2.38	0.57
1:A:1502:MET:HE3	1:A:1546:TYR:HE2	1.67	0.57
1:A:1551:PHE:CE1	1:A:1566:LEU:HB3	2.39	0.57
1:A:1606:PHE:O	1:A:1607:LYS:C	2.48	0.57
2:B:420:LEU:HA	2:B:423:MET:HG3	1.87	0.57
3:C:38:ASP:OD1	3:C:40:TYR:OH	2.15	0.57
1:D:31:ILE:CG2	2:E:536:LEU:HB2	2.35	0.57
1:D:900:UNK:O	1:D:901:UNK:C	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:995:VAL:O	1:D:998:ARG:HB2	2.04	0.57
1:D:1223:TYR:O	1:D:1224:LEU:C	2.46	0.57
2:E:313:MET:HE2	2:E:381:LEU:HD22	1.87	0.57
2:E:576:TYR:HB3	2:E:591:LEU:CD2	2.31	0.57
1:A:35:VAL:HA	1:A:50:ILE:H	1.67	0.57
1:A:1195:GLU:H	1:A:1200:ARG:NE	2.03	0.57
1:A:1295:GLU:OE1	1:A:1295:GLU:N	2.36	0.57
1:A:1606:PHE:C	1:A:1610:LYS:HB3	2.28	0.57
2:B:528:PHE:HA	2:B:534:LEU:HD13	1.87	0.57
1:D:1551:PHE:CE1	1:D:1566:LEU:HB3	2.39	0.57
2:E:642:PHE:O	2:E:654:PHE:HB2	2.05	0.57
3:F:170:ASP:C	3:F:174:ARG:NH1	2.62	0.57
1:A:1351:GLY:CA	1:A:1404:GLN:HG3	2.35	0.57
1:A:1607:LYS:O	1:A:1611:MET:CB	2.53	0.57
1:D:17:TYR:CZ	2:E:710:PRO:HB3	2.40	0.57
1:D:802:UNK:HA	1:D:805:UNK:N	2.19	0.57
1:D:944:UNK:O	1:D:947:UNK:N	2.38	0.57
1:D:1029:TYR:CD2	1:D:1030:PHE:HD1	2.23	0.57
1:D:1066:ILE:O	1:D:1070:ILE:HD12	2.05	0.57
1:D:1175:VAL:HG23	1:D:1176:ASN:H	1.70	0.57
1:D:1184:LYS:O	1:D:1187:ASP:HB2	2.04	0.57
1:D:1348:TYR:CB	1:D:1399:LYS:HA	2.31	0.57
1:D:1413:PRO:HB2	1:D:1439:VAL:HG21	1.86	0.57
2:E:652:LEU:HB3	2:E:654:PHE:CE1	2.40	0.57
3:F:7:VAL:HA	3:F:56:TRP:HB2	1.86	0.57
1:A:187:HIS:CE1	1:A:989:TRP:HA	2.40	0.56
1:A:261:UNK:HA	1:A:266:UNK:N	2.20	0.56
1:A:1066:ILE:O	1:A:1070:ILE:HD12	2.05	0.56
1:A:1234:CYS:SG	1:A:1236:ASN:ND2	2.78	0.56
1:A:1319:SER:O	1:A:1323:ILE:HG12	2.04	0.56
1:A:1543:PHE:CD1	3:C:37:PHE:CZ	2.90	0.56
1:A:1556:VAL:HG13	1:A:1563:GLN:CD	2.30	0.56
1:A:1616:GLU:HG3	1:A:1617:TYR:HD2	1.64	0.56
2:B:589:GLY:HA2	2:B:603:SER:OG	2.05	0.56
1:D:15:ALA:O	1:D:32:GLY:N	2.29	0.56
1:D:500:GLU:HA	1:D:503:GLN:CD	2.29	0.56
1:D:507:LEU:HB3	1:D:509:PHE:CE1	2.40	0.56
1:D:1449:ARG:NH1	1:D:1458:GLU:HB2	2.19	0.56
2:E:532:PRO:HG3	2:E:707:PRO:C	2.29	0.56
2:E:534:LEU:HD12	2:E:537:LYS:CB	2.36	0.56
1:A:106:TYR:CD1	1:A:111:LYS:HE2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:450:MET:HA	1:A:509:PHE:CE1	2.40	0.56
1:A:900:UNK:O	1:A:901:UNK:C	2.53	0.56
1:A:904:UNK:O	1:A:907:UNK:N	2.39	0.56
1:A:1181:LEU:HD23	1:A:1182:LEU:N	2.21	0.56
1:A:1348:TYR:CB	1:A:1399:LYS:HA	2.31	0.56
1:A:1384:ASN:C	1:A:1404:GLN:HB2	2.30	0.56
1:A:1449:ARG:HD2	1:A:1461:SER:OG	2.05	0.56
1:A:1474:LYS:HZ3	1:A:1476:PRO:HD2	1.70	0.56
3:C:7:VAL:HA	3:C:56:TRP:HB2	1.86	0.56
1:D:1082:ILE:HG23	1:D:1083:CYS:H	1.70	0.56
1:D:1178:VAL:O	1:D:1181:LEU:HB3	2.05	0.56
1:D:1234:CYS:SG	1:D:1236:ASN:ND2	2.78	0.56
2:E:312:LYS:HB3	2:E:372:THR:HA	1.87	0.56
2:E:548:ILE:HD11	2:E:686:LEU:HB2	1.87	0.56
2:E:591:LEU:HD22	2:E:599:VAL:N	2.20	0.56
1:A:140:GLU:OE1	1:A:140:GLU:HA	2.03	0.56
1:A:430:LEU:HD23	1:A:602:ILE:HD12	1.86	0.56
1:A:1171:VAL:HA	1:A:1174:PHE:HB2	1.86	0.56
1:A:1228:ARG:O	1:A:1232:LEU:HG	2.06	0.56
1:A:1361:PHE:CE1	1:A:1483:GLU:HB2	2.39	0.56
1:A:1529:MET:HB2	3:C:56:TRP:CE3	2.40	0.56
2:B:275:ILE:HB	2:B:446:PHE:HE2	1.70	0.56
2:B:279:VAL:HG11	2:B:290:MET:HE2	1.88	0.56
2:B:461:GLN:HA	2:B:464:ASN:HD21	1.68	0.56
2:B:675:LYS:HD2	2:B:676:ASP:H	1.69	0.56
3:C:75:THR:HB	3:C:78:PHE:CZ	2.39	0.56
3:C:87:PRO:HG2	3:C:134:LEU:CB	2.36	0.56
1:D:187:HIS:CE1	1:D:989:TRP:HA	2.40	0.56
1:D:246:UNK:O	1:D:250:UNK:N	2.38	0.56
1:D:448:VAL:HG21	1:D:600:PHE:HZ	1.68	0.56
1:D:486:GLN:O	1:D:486:GLN:HG2	2.05	0.56
1:D:1188:TYR:HA	1:D:1191:VAL:HG22	1.86	0.56
1:D:1223:TYR:O	1:D:1226:LYS:N	2.37	0.56
1:D:1278:GLU:C	1:D:1278:GLU:CD	2.73	0.56
1:D:1337:ARG:CZ	1:D:1430:ILE:HA	2.34	0.56
1:D:1339:LYS:HB3	1:D:1368:TYR:HE1	1.70	0.56
1:D:1613:VAL:HA	1:D:1616:GLU:CB	2.35	0.56
2:E:545:LEU:HB3	2:E:549:LYS:HZ1	1.70	0.56
2:E:572:ASP:HA	2:E:591:LEU:O	2.05	0.56
2:E:608:LEU:HG	2:E:646:TYR:CZ	2.41	0.56
2:E:667:ASP:HA	2:E:670:ASN:CG	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:5:ARG:HG2	1:A:40:THR:HG23	1.87	0.56
1:A:486:GLN:O	1:A:486:GLN:HG2	2.05	0.56
1:A:1084:PHE:CZ	1:A:1111:PHE:HB3	2.41	0.56
1:A:1134:LEU:HD12	1:A:1135:LYS:N	2.21	0.56
1:A:1184:LYS:O	1:A:1187:ASP:HB2	2.04	0.56
1:A:1279:THR:O	1:A:1282:GLU:HB3	2.05	0.56
1:A:1294:TRP:CD2	1:A:1331:SER:HB3	2.41	0.56
1:D:262:UNK:N	1:D:265:UNK:HA	2.20	0.56
1:D:430:LEU:HD23	1:D:602:ILE:HD12	1.86	0.56
1:D:502:MET:HB3	1:D:534:LEU:HD22	1.87	0.56
1:D:1084:PHE:CZ	1:D:1111:PHE:HB3	2.41	0.56
1:D:1279:THR:O	1:D:1282:GLU:HB3	2.05	0.56
1:D:1587:HIS:O	1:D:1589:LYS:N	2.38	0.56
2:E:637:VAL:HB	2:E:655:ILE:HD12	1.86	0.56
1:A:27:LEU:HB3	1:A:59:PHE:HB3	1.87	0.56
1:A:262:UNK:N	1:A:265:UNK:HA	2.21	0.56
1:A:536:LYS:HB3	1:A:538:ASP:HB3	1.87	0.56
1:A:1226:LYS:HA	1:A:1229:ASP:OD2	2.06	0.56
1:A:1577:ILE:HA	1:A:1580:LEU:CD1	2.35	0.56
1:A:1614:GLU:C	1:A:1618:GLY:H	2.10	0.56
2:B:549:LYS:HE2	2:B:671:ALA:HB2	1.88	0.56
2:B:582:ASN:OD1	2:B:584:LYS:N	2.36	0.56
1:D:106:TYR:CD1	1:D:111:LYS:HE2	2.40	0.56
1:D:156:ASN:O	1:D:161:LEU:N	2.30	0.56
1:D:1156:ILE:O	1:D:1159:GLU:HG2	2.05	0.56
1:D:1226:LYS:HA	1:D:1229:ASP:OD2	2.06	0.56
1:D:1228:ARG:O	1:D:1232:LEU:HG	2.06	0.56
1:D:1384:ASN:C	1:D:1404:GLN:HB2	2.30	0.56
2:E:530:SER:OG	2:E:533:ILE:HB	2.04	0.56
2:E:683:ARG:HG2	2:E:686:LEU:HD23	1.88	0.56
3:F:11:ASP:OD2	3:F:97:TRP:NE1	2.38	0.56
1:A:944:UNK:O	1:A:947:UNK:N	2.38	0.56
1:A:1152:LEU:O	1:A:1156:ILE:HG13	2.06	0.56
1:A:1252:LYS:O	1:A:1273:HIS:CE1	2.59	0.56
1:A:1364:ARG:NH2	1:A:1476:PRO:HD3	2.20	0.56
2:B:129:LEU:O	2:B:133:VAL:HG23	2.05	0.56
1:D:5:ARG:HG2	1:D:40:THR:HG23	1.87	0.56
1:D:7:ALA:H	1:D:39:GLU:HA	1.71	0.56
1:D:46:ARG:HD3	2:E:722:PHE:CD1	2.41	0.56
1:D:60:PRO:HB3	2:E:714:PRO:HD2	1.86	0.56
1:D:149:THR:O	1:D:150:SER:C	2.49	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:571:TYR:HD2	1:D:572:ARG:H	1.52	0.56
1:D:1394:PRO:HG2	1:D:1399:LYS:HE3	1.87	0.56
1:D:1447:PRO:HD3	3:F:32:TYR:C	2.31	0.56
2:E:383:ASN:HB3	2:E:456:PHE:CG	2.40	0.56
2:E:442:HIS:HB2	2:E:445:PHE:HD1	1.69	0.56
2:E:541:GLN:HE21	2:E:686:LEU:CD2	2.12	0.56
2:E:614:LYS:HG3	2:E:615:ALA:H	1.69	0.56
3:F:23:TYR:HB2	3:F:165:LEU:HD21	1.88	0.56
3:F:153:LYS:NZ	3:F:168:VAL:O	2.39	0.56
1:A:1027:ASN:OD1	1:A:1031:HIS:NE2	2.37	0.56
1:A:1029:TYR:HD2	1:A:1030:PHE:CD1	2.24	0.56
1:A:1082:ILE:HG23	1:A:1083:CYS:H	1.70	0.56
1:A:1156:ILE:O	1:A:1159:GLU:HG2	2.05	0.56
1:A:1361:PHE:HE1	1:A:1483:GLU:HB2	1.71	0.56
3:C:125:THR:O	3:C:129:LEU:HD12	2.06	0.56
1:D:497:VAL:HB	1:D:502:MET:HG2	1.86	0.56
1:D:547:HIS:O	1:D:602:ILE:N	2.39	0.56
1:D:1152:LEU:O	1:D:1156:ILE:HG13	2.06	0.56
1:D:1252:LYS:O	1:D:1273:HIS:CE1	2.59	0.56
1:D:1294:TRP:O	1:D:1297:ALA:HB3	2.05	0.56
2:E:609:PRO:CB	2:E:612:ASP:HB2	2.27	0.56
2:E:662:TYR:O	2:E:663:CYS:C	2.48	0.56
2:E:668:GLY:O	2:E:672:LEU:CB	2.53	0.56
3:F:46:VAL:HG13	3:F:51:VAL:HG22	1.88	0.56
3:F:93:VAL:HG23	3:F:94:ARG:NH1	2.21	0.56
1:A:27:LEU:HD13	1:A:57:GLY:N	2.21	0.56
1:A:187:HIS:HE1	1:A:989:TRP:HA	1.71	0.56
1:A:547:HIS:O	1:A:602:ILE:N	2.39	0.56
1:A:977:LYS:NZ	1:A:977:LYS:HB3	2.20	0.56
1:A:1237:TYR:HA	1:A:1240:ALA:HB3	1.88	0.56
1:A:1278:GLU:C	1:A:1278:GLU:CD	2.73	0.56
1:A:1394:PRO:HG2	1:A:1399:LYS:HE3	1.87	0.56
1:A:1492:ILE:HB	1:A:1496:GLU:OE1	2.06	0.56
1:D:102:TRP:NE1	1:D:114:PHE:O	2.31	0.56
1:D:105:LEU:HA	1:D:108:ALA:HB3	1.87	0.56
1:D:143:GLU:O	1:D:146:GLN:HB3	2.06	0.56
1:D:442:THR:O	1:D:444:ARG:N	2.35	0.56
1:D:466:VAL:O	1:D:470:ASP:N	2.39	0.56
1:D:1237:TYR:HA	1:D:1240:ALA:HB3	1.88	0.56
2:E:470:MET:SD	2:E:472:ALA:HB2	2.46	0.56
2:E:502:PHE:O	2:E:506:LEU:HG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:5:LYS:HA	3:F:56:TRP:NE1	2.21	0.56
3:F:46:VAL:HG13	3:F:49:LYS:O	2.06	0.56
3:F:87:PRO:HG2	3:F:134:LEU:CB	2.36	0.56
1:A:464:ILE:HD12	1:A:474:ASN:O	2.06	0.56
1:A:1255:ASP:CA	1:A:1273:HIS:HB3	2.30	0.56
1:A:1525:ASN:O	1:A:1527:LEU:N	2.39	0.56
3:C:23:TYR:HB2	3:C:165:LEU:HD21	1.88	0.56
1:D:545:GLY:N	1:D:604:THR:O	2.28	0.56
1:D:1029:TYR:HD2	1:D:1030:PHE:CD1	2.24	0.56
1:D:1171:VAL:HA	1:D:1174:PHE:HB2	1.87	0.56
1:D:1224:LEU:HG	1:D:1243:THR:HG23	1.87	0.56
1:D:1253:TRP:CH2	1:D:1277:LYS:HD2	2.41	0.56
1:D:1351:GLY:CA	1:D:1404:GLN:HG3	2.35	0.56
2:E:30:LEU:O	2:E:34:ILE:HG12	2.06	0.56
2:E:160:THR:OG1	2:E:200:ARG:NE	2.37	0.56
2:E:658:ASP:N	2:E:658:ASP:OD1	2.38	0.56
1:A:105:LEU:HA	1:A:108:ALA:HB3	1.87	0.56
1:A:1029:TYR:CD2	1:A:1030:PHE:HD1	2.23	0.56
1:A:1366:LYS:CD	1:A:1480:ARG:HD2	2.36	0.56
1:A:1420:ARG:HA	1:A:1423:ASN:HD21	1.71	0.56
1:A:1509:ILE:O	1:A:1513:ILE:HG23	2.05	0.56
1:A:1525:ASN:N	1:A:1526:PRO:HD2	2.21	0.56
1:A:1613:VAL:HA	1:A:1616:GLU:CB	2.35	0.56
3:C:11:ASP:OD2	3:C:97:TRP:NE1	2.38	0.56
3:C:39:ASN:HD22	3:C:57:ASP:H	1.54	0.56
3:C:46:VAL:HG13	3:C:49:LYS:O	2.06	0.56
3:C:93:VAL:HG23	3:C:94:ARG:NH1	2.21	0.56
3:C:163:ARG:C	3:C:165:LEU:N	2.64	0.56
1:D:27:LEU:HB3	1:D:59:PHE:HB3	1.87	0.56
1:D:111:LYS:HA	1:D:114:PHE:CB	2.36	0.56
1:D:904:UNK:O	1:D:907:UNK:N	2.38	0.56
1:D:977:LYS:NZ	1:D:977:LYS:HB3	2.20	0.56
1:D:1366:LYS:CD	1:D:1480:ARG:HD2	2.36	0.56
1:D:1391:THR:HG21	1:D:1444:TYR:CZ	2.40	0.56
1:D:1540:MET:HB3	3:F:36:VAL:HG12	1.87	0.56
2:E:574:PHE:O	2:E:591:LEU:O	2.24	0.56
1:A:149:THR:O	1:A:150:SER:C	2.49	0.55
1:A:1043:GLN:CG	1:A:1044:LEU:H	2.16	0.55
1:A:1441:ARG:NH2	1:A:1470:VAL:N	2.54	0.55
1:A:1444:TYR:HE1	3:C:27:ALA:CB	2.19	0.55
1:A:1488:SER:O	1:A:1488:SER:OG	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1569:LEU:O	1:A:1573:ILE:N	2.30	0.55
1:A:1598:PHE:CE1	1:A:1601:ARG:HD2	2.42	0.55
1:D:1181:LEU:HD23	1:D:1182:LEU:N	2.21	0.55
1:D:1325:GLN:HA	1:D:1328:PHE:CD2	2.41	0.55
1:D:1328:PHE:HA	1:D:1331:SER:H	1.71	0.55
1:D:1364:ARG:NH2	1:D:1476:PRO:HD3	2.20	0.55
1:D:1606:PHE:O	1:D:1607:LYS:C	2.48	0.55
1:A:246:UNK:O	1:A:250:UNK:N	2.38	0.55
1:A:450:MET:HB2	1:A:476:TYR:H	1.71	0.55
1:A:1440:GLN:O	1:A:1471:THR:N	2.30	0.55
1:A:1511:MET:HB2	1:A:1512:MET:HE2	1.88	0.55
1:A:1525:ASN:C	3:C:56:TRP:CH2	2.85	0.55
1:A:1551:PHE:CD1	1:A:1566:LEU:HD12	2.41	0.55
2:B:562:PHE:CE2	2:B:654:PHE:HB3	2.41	0.55
3:C:5:LYS:HA	3:C:56:TRP:NE1	2.20	0.55
1:D:17:TYR:CD1	2:E:532:PRO:HB3	2.40	0.55
1:D:27:LEU:HD13	1:D:57:GLY:N	2.21	0.55
1:D:510:MET:HE2	1:D:510:MET:N	2.21	0.55
1:D:1361:PHE:HE1	1:D:1483:GLU:HB2	1.71	0.55
1:D:1449:ARG:HD2	1:D:1461:SER:OG	2.05	0.55
1:D:1525:ASN:N	1:D:1526:PRO:HD2	2.21	0.55
2:E:474:SER:O	2:E:477:PHE:HB2	2.07	0.55
2:E:612:ASP:CG	2:E:646:TYR:HD2	2.14	0.55
1:A:139:ASP:O	1:A:142:LYS:HG3	2.07	0.55
1:A:1283:THR:HG22	1:A:1287:TYR:OH	2.07	0.55
3:C:46:VAL:HG11	3:C:173:ILE:HD13	1.88	0.55
3:C:153:LYS:NZ	3:C:168:VAL:O	2.38	0.55
1:D:139:ASP:O	1:D:142:LYS:HG3	2.07	0.55
1:D:184:PHE:C	1:D:184:PHE:CD2	2.80	0.55
1:D:187:HIS:HE1	1:D:989:TRP:HA	1.71	0.55
1:D:1032:LEU:O	1:D:1033:ALA:C	2.49	0.55
1:D:1201:MET:HG3	1:D:1227:LEU:HD11	1.87	0.55
1:D:1343:PHE:CE1	3:F:26:ASN:ND2	2.74	0.55
1:D:1345:VAL:HG23	1:D:1406:ILE:HG21	1.89	0.55
1:D:1410:THR:HB	3:F:26:ASN:C	2.31	0.55
1:D:1525:ASN:O	1:D:1527:LEU:N	2.39	0.55
1:A:455:GLU:O	1:A:562:ALA:HA	2.07	0.55
1:A:881:UNK:O	1:A:884:UNK:N	2.40	0.55
1:A:1009:GLU:HA	1:A:1012:ASN:HD22	1.72	0.55
1:A:1212:LYS:HE2	1:A:1213:ASP:N	2.22	0.55
1:A:1239:GLU:CA	1:A:1242:TYR:HB2	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1391:THR:HG21	1:A:1444:TYR:CZ	2.40	0.55
3:C:46:VAL:HG13	3:C:51:VAL:HG22	1.88	0.55
1:D:102:TRP:HE1	1:D:114:PHE:C	2.14	0.55
1:D:1134:LEU:HD12	1:D:1135:LYS:N	2.21	0.55
1:D:1373:ASP:O	1:D:1377:GLN:HG2	2.07	0.55
1:D:1507:GLU:OE2	1:D:1507:GLU:HA	2.06	0.55
1:D:1516:TYR:CE1	1:D:1522:LEU:HB2	2.37	0.55
1:D:1598:PHE:CE1	1:D:1601:ARG:HD2	2.42	0.55
2:E:556:LEU:HD21	2:E:668:GLY:CA	2.32	0.55
1:A:162:ASP:HA	1:A:988:ASP:CB	2.37	0.55
3:C:94:ARG:NH1	3:C:94:ARG:H	2.05	0.55
1:D:1352:PHE:HB2	1:D:1357:ARG:CA	2.37	0.55
1:D:1431:ILE:O	1:D:1432:ASN:C	2.50	0.55
1:D:1442:PHE:O	1:D:1468:SER:CA	2.39	0.55
1:D:1525:ASN:C	1:D:1527:LEU:H	2.14	0.55
1:D:1540:MET:HG3	3:F:36:VAL:HA	1.89	0.55
2:E:562:PHE:CZ	2:E:665:TRP:CZ2	2.89	0.55
3:F:46:VAL:HG11	3:F:173:ILE:HD13	1.88	0.55
1:A:111:LYS:HA	1:A:114:PHE:CB	2.36	0.55
1:A:466:VAL:O	1:A:470:ASP:N	2.39	0.55
1:A:992:MET:HA	1:A:995:VAL:HG22	1.88	0.55
1:A:1127:LYS:O	1:A:1131:GLU:N	2.25	0.55
1:A:1328:PHE:HA	1:A:1331:SER:H	1.71	0.55
1:A:1507:GLU:HA	1:A:1507:GLU:OE2	2.06	0.55
2:B:615:ALA:O	2:B:645:LEU:HB2	2.06	0.55
1:D:464:ILE:HD12	1:D:474:ASN:O	2.06	0.55
1:D:1007:PHE:O	1:D:1010:THR:OG1	2.25	0.55
1:D:1242:TYR:O	1:D:1243:THR:C	2.45	0.55
1:D:1283:THR:HG22	1:D:1287:TYR:OH	2.07	0.55
1:D:1391:THR:OG1	3:F:31:GLU:OE2	2.09	0.55
1:D:1523:PRO:HB2	1:D:1525:ASN:HD21	1.71	0.55
1:D:1551:PHE:CD1	1:D:1566:LEU:HD12	2.41	0.55
2:E:229:ILE:HD12	2:E:271:LEU:HD13	1.88	0.55
2:E:616:VAL:HG21	2:E:669:LEU:HD13	1.88	0.55
2:E:665:TRP:O	2:E:669:LEU:HD12	2.07	0.55
1:A:143:GLU:O	1:A:146:GLN:HB3	2.06	0.55
1:A:1339:LYS:HB3	1:A:1368:TYR:HE1	1.70	0.55
1:A:1352:PHE:HB2	1:A:1357:ARG:CA	2.37	0.55
2:B:166:MET:HE2	2:B:166:MET:HA	1.89	0.55
3:C:8:VAL:HG22	3:C:79:LEU:HD12	1.89	0.55
3:C:23:TYR:HA	3:C:162:GLN:HE21	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:54:GLY:O	3:C:56:TRP:CD1	2.60	0.55
3:C:75:THR:HB	3:C:78:PHE:CE2	2.41	0.55
1:D:122:TYR:CE1	2:E:692:MET:HE1	2.40	0.55
1:D:568:LEU:HD12	1:D:569:PRO:HD2	1.89	0.55
1:D:1027:ASN:OD1	1:D:1031:HIS:NE2	2.37	0.55
1:D:1040:ASP:C	1:D:1042:LEU:N	2.65	0.55
1:D:1180:GLY:O	1:D:1184:LYS:HD2	2.07	0.55
1:D:1337:ARG:CZ	1:D:1433:PHE:HB3	2.37	0.55
1:D:1577:ILE:HA	1:D:1580:LEU:CD1	2.35	0.55
2:E:610:VAL:HG13	2:E:672:LEU:HD22	1.88	0.55
2:E:658:ASP:OD1	2:E:660:HIS:HD2	1.89	0.55
3:F:75:THR:HB	3:F:78:PHE:CE2	2.41	0.55
3:F:153:LYS:HE2	3:F:171:GLU:CB	2.35	0.55
1:A:502:MET:HB3	1:A:534:LEU:HD22	1.87	0.55
1:A:1236:ASN:HB3	1:A:1238:THR:OG1	2.07	0.55
1:A:1253:TRP:CH2	1:A:1277:LYS:HD2	2.41	0.55
1:A:1332:ILE:CG2	1:A:1337:ARG:HD3	2.37	0.55
1:A:1440:GLN:O	1:A:1442:PHE:CE2	2.60	0.55
1:A:1523:PRO:HB2	1:A:1525:ASN:HD21	1.71	0.55
1:D:992:MET:HA	1:D:995:VAL:HG22	1.88	0.55
1:D:1287:TYR:HD2	1:D:1290:LYS:HZ2	1.54	0.55
1:D:1328:PHE:HA	1:D:1331:SER:CB	2.37	0.55
1:D:1420:ARG:HA	1:D:1423:ASN:HD21	1.71	0.55
1:D:1446:ARG:H	1:D:1464:ILE:HG23	1.72	0.55
1:D:1474:LYS:HZ2	1:D:1475:LEU:N	2.05	0.55
2:E:555:ARG:NH1	2:E:558:GLU:CD	2.65	0.55
2:E:613:ILE:HG12	2:E:644:ILE:HG21	1.88	0.55
2:E:640:LEU:HD22	2:E:656:ALA:H	1.72	0.55
3:F:23:TYR:HA	3:F:162:GLN:HE21	1.72	0.55
1:A:102:TRP:HE1	1:A:114:PHE:C	2.14	0.55
1:A:568:LEU:HD12	1:A:569:PRO:HD2	1.89	0.55
1:A:1098:ILE:O	1:A:1101:ALA:N	2.38	0.55
1:A:1446:ARG:H	1:A:1464:ILE:HG23	1.72	0.55
1:A:1464:ILE:O	1:A:1491:THR:HA	2.07	0.55
1:D:14:VAL:HG13	1:D:65:HIS:HB3	1.89	0.55
1:D:162:ASP:HA	1:D:988:ASP:CB	2.37	0.55
1:D:664:ASP:O	1:D:667:ILE:N	2.40	0.55
1:D:881:UNK:O	1:D:884:UNK:N	2.40	0.55
1:D:1464:ILE:O	1:D:1491:THR:HA	2.07	0.55
1:D:1492:ILE:HB	1:D:1496:GLU:OE1	2.06	0.55
2:E:244:ILE:HB	2:E:293:GLN:NE2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:292:HIS:HA	2:E:439:ASN:HA	1.89	0.55
2:E:307:ASP:O	2:E:311:THR:HG23	2.06	0.55
3:F:54:GLY:O	3:F:56:TRP:CD1	2.60	0.55
3:F:65:ASP:O	3:F:69:PRO:HG2	2.07	0.55
1:A:14:VAL:HG13	1:A:65:HIS:HB3	1.89	0.55
1:A:201:GLU:O	1:A:205:ASP:N	2.35	0.55
1:A:506:HIS:HD2	1:A:508:ARG:HG2	1.72	0.55
1:A:1126:LYS:HG2	1:A:1130:ASN:OD1	2.07	0.55
1:A:1175:VAL:HG23	1:A:1176:ASN:H	1.70	0.55
1:A:1224:LEU:HG	1:A:1243:THR:HG23	1.87	0.55
1:A:1328:PHE:HA	1:A:1331:SER:CB	2.37	0.55
1:A:1394:PRO:HG2	1:A:1399:LYS:CE	2.37	0.55
1:A:1431:ILE:O	1:A:1432:ASN:C	2.50	0.55
1:A:1434:TYR:CA	1:A:1437:ASN:HB2	2.32	0.55
1:A:1449:ARG:HB3	1:A:1461:SER:HB2	1.89	0.55
1:A:1577:ILE:O	1:A:1580:LEU:N	2.40	0.55
3:C:117:LEU:HD22	3:C:156:GLU:CD	2.32	0.55
1:D:4:TRP:H	2:E:723:VAL:HG23	1.71	0.55
1:D:421:ASP:OD2	1:D:421:ASP:N	2.40	0.55
1:D:1068:PHE:HA	1:D:1071:ARG:HG2	1.89	0.55
1:D:1153:LEU:HD22	1:D:1157:LEU:HD11	1.88	0.55
1:D:1195:GLU:H	1:D:1200:ARG:NE	2.03	0.55
1:D:1294:TRP:CD2	1:D:1331:SER:HB3	2.41	0.55
1:D:1440:GLN:O	1:D:1442:PHE:CE2	2.60	0.55
3:F:125:THR:O	3:F:129:LEU:HD12	2.06	0.55
1:A:102:TRP:NE1	1:A:114:PHE:O	2.31	0.54
1:A:968:PHE:CD2	1:A:969:LEU:HD22	2.42	0.54
1:A:1105:LYS:O	1:A:1109:PRO:HD2	2.07	0.54
1:A:1155:SER:O	1:A:1156:ILE:C	2.50	0.54
3:C:3:ALA:HB2	3:C:52:ASN:HD22	1.71	0.54
1:D:430:LEU:HD13	1:D:448:VAL:HG11	1.89	0.54
1:D:482:TYR:O	1:D:484:VAL:N	2.40	0.54
1:D:968:PHE:CD2	1:D:969:LEU:HD22	2.42	0.54
1:D:1126:LYS:HG2	1:D:1130:ASN:OD1	2.07	0.54
1:D:1411:VAL:HG21	1:D:1442:PHE:CB	2.34	0.54
1:D:1468:SER:N	1:D:1488:SER:HG	2.05	0.54
1:D:1488:SER:O	1:D:1488:SER:OG	2.24	0.54
2:E:549:LYS:O	2:E:550:GLN:C	2.49	0.54
2:E:572:ASP:HA	2:E:592:GLU:HA	1.89	0.54
1:A:7:ALA:H	1:A:39:GLU:HA	1.71	0.54
1:A:430:LEU:HD13	1:A:448:VAL:HG11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:432:GLN:HB3	1:A:434:ASP:OD1	2.06	0.54
1:A:942:UNK:O	1:A:943:UNK:C	2.56	0.54
1:A:995:VAL:HG12	1:A:998:ARG:HD2	1.89	0.54
1:A:1030:PHE:CZ	1:A:1073:MET:HG2	2.43	0.54
1:A:1048:SER:O	1:A:1052:TYR:HB3	2.07	0.54
1:A:1325:GLN:HA	1:A:1328:PHE:CD2	2.41	0.54
1:A:1337:ARG:CZ	1:A:1433:PHE:HB3	2.37	0.54
1:A:1370:ARG:HG3	1:A:1372:GLU:H	1.71	0.54
1:A:1433:PHE:O	1:A:1433:PHE:CG	2.61	0.54
1:A:1532:ASN:ND2	3:C:58:THR:HG22	2.23	0.54
3:C:7:VAL:HG22	3:C:56:TRP:CB	2.37	0.54
1:D:6:LYS:HG2	1:D:38:GLN:O	2.07	0.54
1:D:995:VAL:HG12	1:D:998:ARG:HD2	1.89	0.54
1:D:1009:GLU:HA	1:D:1012:ASN:HD22	1.72	0.54
1:D:1048:SER:O	1:D:1052:TYR:HB3	2.07	0.54
1:D:1479:LEU:HG	1:D:1481:TRP:CZ3	2.42	0.54
3:F:39:ASN:HD22	3:F:57:ASP:H	1.53	0.54
1:A:13:GLY:O	1:A:35:VAL:N	2.23	0.54
1:A:98:TRP:O	1:A:101:ILE:HG23	2.07	0.54
1:A:536:LYS:HD2	1:A:542:LEU:HA	1.89	0.54
1:A:1284:ILE:O	1:A:1287:TYR:N	2.41	0.54
1:A:1415:LEU:HB2	1:A:1435:LYS:CB	2.36	0.54
1:A:1468:SER:N	1:A:1488:SER:HG	2.05	0.54
1:A:1473:TYR:HD2	1:A:1482:PHE:CE1	2.26	0.54
2:B:502:PHE:CE2	2:B:506:LEU:HD11	2.42	0.54
1:D:223:UNK:HA	1:D:385:UNK:HA	1.90	0.54
1:D:448:VAL:HG21	1:D:600:PHE:CZ	2.42	0.54
1:D:508:ARG:NH2	1:D:561:ASP:O	2.34	0.54
1:D:1349:GLY:HA2	1:D:1401:ALA:O	2.07	0.54
1:D:1511:MET:HB2	1:D:1512:MET:HE2	1.87	0.54
1:D:1550:PHE:HB3	1:D:1555:TYR:CD2	2.42	0.54
3:F:83:SER:O	3:F:89:SER:OG	2.18	0.54
1:A:223:UNK:HA	1:A:385:UNK:HA	1.90	0.54
1:A:421:ASP:OD2	1:A:421:ASP:N	2.40	0.54
1:A:424:ASN:H	1:A:609:THR:HG1	1.52	0.54
1:A:482:TYR:O	1:A:484:VAL:N	2.40	0.54
1:A:1175:VAL:CG2	1:A:1176:ASN:H	2.21	0.54
1:A:1180:GLY:O	1:A:1184:LYS:HD2	2.07	0.54
1:A:1342:TYR:C	1:A:1343:PHE:CG	2.85	0.54
1:A:1441:ARG:HH22	1:A:1486:HIS:CB	2.20	0.54
1:A:1525:ASN:C	1:A:1527:LEU:H	2.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1550:PHE:HB3	1:A:1555:TYR:CD2	2.42	0.54
1:D:450:MET:HB2	1:D:476:TYR:H	1.71	0.54
1:D:1030:PHE:CZ	1:D:1073:MET:HG2	2.42	0.54
1:D:1239:GLU:HG2	1:D:1478:ILE:HG13	1.90	0.54
1:D:1338:PRO:HA	3:F:1:MET:SD	2.47	0.54
1:D:1441:ARG:HG3	1:D:1468:SER:HB3	1.89	0.54
1:D:1444:TYR:HE1	3:F:27:ALA:HB2	1.71	0.54
2:E:467:TRP:NE1	2:E:472:ALA:O	2.40	0.54
2:E:574:PHE:CB	2:E:591:LEU:HB2	2.37	0.54
3:F:8:VAL:HG22	3:F:79:LEU:HD12	1.89	0.54
3:F:94:ARG:NH1	3:F:94:ARG:H	2.05	0.54
3:F:113:VAL:HG23	3:F:156:GLU:HA	1.90	0.54
1:A:1287:TYR:HA	1:A:1290:LYS:HZ2	1.72	0.54
1:A:1323:ILE:O	1:A:1326:ALA:HB3	2.08	0.54
1:A:1354:SER:O	1:A:1357:ARG:N	2.41	0.54
1:A:1533:GLY:HA3	3:C:39:ASN:OD1	2.07	0.54
1:A:1543:PHE:CG	1:A:1544:ALA:N	2.76	0.54
1:A:1579:PHE:CA	1:A:1582:ALA:H	2.16	0.54
1:A:1597:PRO:HA	1:A:1600:ASP:OD2	2.08	0.54
1:D:536:LYS:HD2	1:D:542:LEU:HA	1.89	0.54
1:D:1155:SER:O	1:D:1156:ILE:C	2.50	0.54
1:D:1196:SER:O	1:D:1197:LYS:C	2.50	0.54
1:D:1284:ILE:O	1:D:1287:TYR:N	2.41	0.54
1:D:1287:TYR:HA	1:D:1290:LYS:HZ2	1.72	0.54
1:D:1337:ARG:NH1	1:D:1433:PHE:HB3	2.23	0.54
1:D:1433:PHE:O	1:D:1433:PHE:CG	2.61	0.54
1:D:1450:ARG:NH2	1:D:1491:THR:HB	2.14	0.54
2:E:206:GLU:O	2:E:210:LEU:HG	2.07	0.54
2:E:555:ARG:HA	2:E:558:GLU:CD	2.32	0.54
2:E:658:ASP:O	2:E:661:GLU:N	2.40	0.54
2:E:666:THR:OG1	2:E:667:ASP:N	2.39	0.54
1:A:1239:GLU:HG2	1:A:1478:ILE:HG13	1.90	0.54
1:A:1309:GLU:HA	1:A:1315:TYR:HE1	1.73	0.54
1:A:1373:ASP:O	1:A:1377:GLN:HG2	2.07	0.54
1:A:1441:ARG:HG3	1:A:1468:SER:HB3	1.89	0.54
2:B:296:VAL:HA	2:B:299:VAL:HG12	1.89	0.54
3:C:113:VAL:HG23	3:C:156:GLU:HA	1.90	0.54
1:D:432:GLN:HB3	1:D:434:ASP:OD1	2.06	0.54
1:D:536:LYS:CD	1:D:542:LEU:HA	2.37	0.54
1:D:1239:GLU:HA	1:D:1242:TYR:HD1	1.72	0.54
1:D:1298:ILE:O	1:D:1301:CYS:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1314:ASP:OD2	1:D:1317:LEU:HD12	2.08	0.54
1:D:1364:ARG:HH21	1:D:1437:ASN:HA	1.73	0.54
1:D:1413:PRO:CB	1:D:1439:VAL:HG21	2.38	0.54
1:D:1415:LEU:HB2	1:D:1435:LYS:CB	2.36	0.54
1:D:1434:TYR:CA	1:D:1437:ASN:HB2	2.32	0.54
1:D:1458:GLU:O	1:D:1461:SER:N	2.40	0.54
2:E:551:GLN:OE1	2:E:552:ARG:N	2.41	0.54
2:E:559:GLY:HA3	2:E:577:CYS:O	2.08	0.54
2:E:649:ASN:O	2:E:651:GLN:HG2	2.07	0.54
1:A:510:MET:HE2	1:A:510:MET:N	2.21	0.54
1:A:536:LYS:CD	1:A:542:LEU:HA	2.37	0.54
1:A:1003:ALA:HB1	1:A:1007:PHE:CE2	2.43	0.54
1:A:1345:VAL:HG23	1:A:1406:ILE:CG2	2.38	0.54
1:A:1364:ARG:HH21	1:A:1437:ASN:HA	1.73	0.54
1:A:1458:GLU:O	1:A:1461:SER:N	2.40	0.54
1:A:1479:LEU:HG	1:A:1481:TRP:CZ3	2.42	0.54
2:B:30:LEU:O	2:B:34:ILE:HG12	2.08	0.54
1:D:455:GLU:O	1:D:562:ALA:HA	2.07	0.54
1:D:1011:MET:HA	1:D:1014:LYS:HG3	1.90	0.54
1:D:1212:LYS:HE2	1:D:1213:ASP:N	2.22	0.54
1:D:1342:TYR:C	1:D:1343:PHE:CG	2.85	0.54
1:D:1394:PRO:HG2	1:D:1399:LYS:CE	2.37	0.54
1:D:1394:PRO:O	1:D:1395:GLY:C	2.50	0.54
1:D:1449:ARG:HB3	1:D:1461:SER:HB2	1.89	0.54
1:D:1551:PHE:HE1	1:D:1566:LEU:HB3	1.73	0.54
3:F:3:ALA:HB2	3:F:52:ASN:HD22	1.72	0.54
3:F:125:THR:O	3:F:129:LEU:HB2	2.07	0.54
3:F:162:GLN:C	3:F:165:LEU:HD13	2.33	0.54
1:A:1032:LEU:O	1:A:1033:ALA:C	2.49	0.54
1:A:1336:LEU:HD23	1:A:1336:LEU:N	2.23	0.54
1:A:1342:TYR:N	1:A:1342:TYR:CD1	2.71	0.54
1:A:1349:GLY:HA2	1:A:1401:ALA:O	2.07	0.54
1:A:1359:LYS:HG3	1:A:1361:PHE:CZ	2.43	0.54
1:A:1394:PRO:O	1:A:1395:GLY:C	2.50	0.54
2:B:275:ILE:HG23	2:B:279:VAL:HG21	1.90	0.54
3:C:100:GLU:C	3:C:103:HIS:HB3	2.32	0.54
1:D:84:GLU:HB3	1:D:131:LEU:HB3	1.90	0.54
1:D:98:TRP:O	1:D:101:ILE:HG23	2.07	0.54
1:D:1323:ILE:O	1:D:1326:ALA:HB3	2.08	0.54
1:D:1370:ARG:HG3	1:D:1372:GLU:H	1.71	0.54
1:D:1577:ILE:O	1:D:1580:LEU:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1616:GLU:HG3	1:D:1617:TYR:CE2	2.43	0.54
2:E:376:PRO:HG3	2:E:418:ILE:O	2.08	0.54
1:A:29:LEU:HD13	1:A:64:ILE:HD11	1.89	0.54
1:A:38:GLN:H	1:A:47:GLY:CA	2.21	0.54
1:A:48:TYR:CD2	1:A:53:LYS:HA	2.43	0.54
1:A:1536:ASP:CG	3:C:64:TYR:OH	2.50	0.54
1:D:1086:PRO:O	1:D:1089:VAL:N	2.39	0.54
1:D:1140:VAL:CG1	1:D:1189:ARG:HB2	2.38	0.54
1:D:1236:ASN:HB3	1:D:1238:THR:OG1	2.07	0.54
1:D:1473:TYR:HD2	1:D:1482:PHE:CE1	2.26	0.54
1:D:1597:PRO:HA	1:D:1600:ASP:OD2	2.08	0.54
1:D:1601:ARG:C	1:D:1601:ARG:HH11	2.16	0.54
3:F:7:VAL:HG22	3:F:56:TRP:CB	2.36	0.54
3:F:40:TYR:C	3:F:55:LEU:HB2	2.33	0.54
1:A:156:ASN:O	1:A:161:LEU:N	2.30	0.54
1:A:448:VAL:HG21	1:A:600:PHE:CZ	2.42	0.54
1:A:1011:MET:HA	1:A:1014:LYS:HG3	1.90	0.54
1:A:1420:ARG:HB2	1:D:1313:PHE:CZ	2.38	0.54
1:A:1457:ASN:OD1	1:A:1459:PHE:HB2	2.08	0.54
1:A:1516:TYR:CE1	1:A:1522:LEU:HD12	2.42	0.54
1:A:1516:TYR:CD2	1:A:1516:TYR:N	2.76	0.54
1:A:1523:PRO:C	1:A:1525:ASN:H	2.16	0.54
3:C:153:LYS:HE2	3:C:171:GLU:CB	2.35	0.54
1:D:13:GLY:O	1:D:35:VAL:N	2.23	0.54
1:D:968:PHE:CD2	1:D:968:PHE:C	2.86	0.54
1:D:1009:GLU:HA	1:D:1012:ASN:ND2	2.23	0.54
1:D:1239:GLU:CA	1:D:1242:TYR:HB2	2.35	0.54
1:D:1300:LEU:O	1:D:1301:CYS:C	2.49	0.54
1:D:1434:TYR:HA	1:D:1437:ASN:HD22	1.73	0.54
1:D:1569:LEU:O	1:D:1573:ILE:N	2.30	0.54
2:E:585:VAL:HG12	2:E:586:LEU:O	2.08	0.54
2:E:652:LEU:HB3	2:E:654:PHE:CZ	2.43	0.54
3:F:100:GLU:C	3:F:103:HIS:HB3	2.32	0.54
3:F:163:ARG:C	3:F:165:LEU:N	2.64	0.54
1:A:426:ILE:HG13	1:A:606:VAL:HA	1.90	0.53
1:A:519:SER:C	1:A:521:ASP:H	2.15	0.53
1:A:1349:GLY:HA3	1:A:1403:GLY:O	2.08	0.53
1:A:1413:PRO:CB	1:A:1439:VAL:HG21	2.38	0.53
1:A:1500:GLU:O	1:A:1504:THR:HG23	2.08	0.53
1:A:1551:PHE:HE1	1:A:1566:LEU:HB3	1.73	0.53
2:B:199:GLN:NE2	2:B:239:ILE:HG12	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:536:LEU:HD11	2:B:694:ILE:HD13	1.90	0.53
2:B:537:LYS:O	2:B:541:GLN:HB2	2.08	0.53
3:C:65:ASP:O	3:C:69:PRO:HG2	2.07	0.53
1:D:1105:LYS:O	1:D:1109:PRO:HD2	2.07	0.53
1:D:1504:THR:O	1:D:1508:LYS:HG2	2.08	0.53
2:E:129:LEU:O	2:E:133:VAL:HG23	2.07	0.53
2:E:232:LEU:HA	2:E:240:GLN:HG2	1.89	0.53
1:A:84:GLU:HB3	1:A:131:LEU:HB3	1.90	0.53
1:A:664:ASP:O	1:A:667:ILE:N	2.40	0.53
1:A:1009:GLU:HA	1:A:1012:ASN:ND2	2.23	0.53
1:A:1153:LEU:HD22	1:A:1157:LEU:HD11	1.88	0.53
1:A:1314:ASP:OD2	1:A:1317:LEU:HD12	2.08	0.53
1:A:1394:PRO:O	1:A:1399:LYS:NZ	2.41	0.53
1:A:1529:MET:HG3	3:C:56:TRP:CG	2.42	0.53
1:A:1578:PRO:HB2	1:A:1579:PHE:CE1	2.43	0.53
1:A:1616:GLU:HG3	1:A:1617:TYR:CE2	2.43	0.53
2:B:14:TRP:HB2	2:B:41:TRP:CZ3	2.44	0.53
2:B:694:ILE:HD12	2:B:697:ARG:HB3	1.90	0.53
3:C:125:THR:O	3:C:129:LEU:HB2	2.07	0.53
3:C:142:GLY:O	3:C:145:MET:N	2.41	0.53
3:C:171:GLU:OE1	3:C:174:ARG:HD2	2.08	0.53
1:D:426:ILE:HG13	1:D:606:VAL:HA	1.90	0.53
1:D:1098:ILE:O	1:D:1101:ALA:N	2.38	0.53
1:D:1175:VAL:CG2	1:D:1176:ASN:H	2.21	0.53
1:D:1309:GLU:HA	1:D:1315:TYR:HE1	1.73	0.53
1:D:1336:LEU:H	1:D:1336:LEU:HD23	1.73	0.53
1:D:1349:GLY:HA3	1:D:1403:GLY:O	2.08	0.53
1:D:1354:SER:O	1:D:1357:ARG:N	2.41	0.53
1:D:1579:PHE:CA	1:D:1582:ALA:H	2.16	0.53
2:E:532:PRO:HG3	2:E:707:PRO:O	2.08	0.53
2:E:555:ARG:O	2:E:558:GLU:OE1	2.25	0.53
2:E:603:SER:C	2:E:605:GLN:N	2.66	0.53
2:E:642:PHE:CD1	2:E:654:PHE:HB2	2.43	0.53
2:E:685:ASP:N	2:E:685:ASP:OD1	2.41	0.53
1:A:968:PHE:CD2	1:A:968:PHE:C	2.86	0.53
1:A:1231:HIS:CE1	1:A:1236:ASN:HB3	2.43	0.53
1:A:1345:VAL:HG23	1:A:1406:ILE:HG21	1.89	0.53
1:A:1383:PRO:N	2:B:582:ASN:HB2	2.23	0.53
1:A:1504:THR:O	1:A:1508:LYS:HG2	2.08	0.53
1:A:1529:MET:HB2	3:C:56:TRP:CD2	2.43	0.53
2:B:139:LEU:HD13	2:B:155:LEU:HD22	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:98:TYR:HB2	3:C:149:ILE:HD13	1.91	0.53
1:D:547:HIS:CD2	1:D:571:TYR:CE1	2.97	0.53
1:D:1252:LYS:HG3	1:D:1273:HIS:NE2	2.24	0.53
1:D:1302:LYS:HB2	1:D:1303:GLU:OE1	2.08	0.53
2:E:614:LYS:HG3	2:E:615:ALA:N	2.23	0.53
2:E:667:ASP:HA	2:E:670:ASN:CB	2.38	0.53
1:A:1068:PHE:HA	1:A:1071:ARG:HG2	1.89	0.53
1:A:1447:PRO:HD3	3:C:32:TYR:N	2.24	0.53
3:C:40:TYR:C	3:C:55:LEU:HB2	2.33	0.53
1:D:519:SER:C	1:D:521:ASP:H	2.15	0.53
1:D:977:LYS:HB3	1:D:977:LYS:HZ2	1.73	0.53
1:D:1175:VAL:O	1:D:1176:ASN:C	2.52	0.53
1:D:1222:ARG:O	1:D:1225:TYR:HB2	2.09	0.53
1:D:1441:ARG:HH22	1:D:1486:HIS:CB	2.20	0.53
1:D:1474:LYS:NZ	1:D:1476:PRO:O	2.41	0.53
1:D:1495:LEU:O	1:D:1496:GLU:C	2.51	0.53
1:D:1500:GLU:O	1:D:1504:THR:HG23	2.08	0.53
2:E:533:ILE:CD1	2:E:706:ILE:HG12	2.36	0.53
2:E:684:ASN:ND2	2:E:685:ASP:OD1	2.41	0.53
3:F:98:TYR:HB2	3:F:149:ILE:HD13	1.91	0.53
3:F:117:LEU:HD22	3:F:156:GLU:CD	2.32	0.53
1:A:14:VAL:N	1:A:65:HIS:O	2.37	0.53
1:A:102:TRP:O	1:A:105:LEU:N	2.42	0.53
1:A:535:MET:HB2	1:A:536:LYS:O	2.08	0.53
1:A:1029:TYR:CD2	1:A:1030:PHE:CD1	2.97	0.53
1:A:1109:PRO:HB3	1:A:1160:CYS:SG	2.49	0.53
1:A:1178:VAL:HA	1:A:1181:LEU:HD22	1.90	0.53
1:A:1298:ILE:O	1:A:1301:CYS:HB2	2.08	0.53
1:A:1394:PRO:HD3	1:A:1407:GLN:OE1	2.07	0.53
1:A:1446:ARG:NE	3:C:31:GLU:HG3	2.24	0.53
1:A:1468:SER:O	1:A:1488:SER:OG	2.26	0.53
3:C:162:GLN:C	3:C:165:LEU:HD13	2.33	0.53
1:D:3:PRO:HB2	2:E:723:VAL:HG21	1.90	0.53
1:D:1062:MET:O	1:D:1066:ILE:HG13	2.08	0.53
1:D:1336:LEU:HD23	1:D:1336:LEU:N	2.23	0.53
1:D:1449:ARG:NH2	3:F:34:PRO:HG2	2.23	0.53
1:D:1525:ASN:O	1:D:1528:SER:OG	2.22	0.53
2:E:527:ASP:C	2:E:537:LYS:HD3	2.34	0.53
2:E:657:PRO:HD2	2:E:661:GLU:OE1	2.09	0.53
1:A:165:VAL:HB	1:A:167:ASP:OD1	2.09	0.53
1:A:992:MET:O	1:A:993:SER:C	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1086:PRO:O	1:A:1089:VAL:N	2.39	0.53
1:A:1128:PHE:O	1:A:1132:ILE:HG13	2.08	0.53
1:A:1196:SER:O	1:A:1197:LYS:C	2.50	0.53
1:A:1239:GLU:HA	1:A:1242:TYR:CB	2.34	0.53
1:A:1337:ARG:NH1	1:A:1433:PHE:HB3	2.23	0.53
1:A:1581:GLY:O	1:A:1584:ILE:HB	2.09	0.53
2:B:579:LEU:HD23	2:B:580:SER:O	2.09	0.53
2:B:670:ASN:HB3	2:B:675:LYS:HB3	1.89	0.53
2:B:701:LEU:HD12	2:B:704:ILE:HB	1.91	0.53
3:C:28:PHE:CD1	3:C:29:PRO:HD2	2.43	0.53
1:D:47:GLY:H	1:D:59:PHE:HE1	1.57	0.53
1:D:535:MET:HB2	1:D:536:LYS:O	2.08	0.53
1:D:1133:ILE:O	1:D:1137:ASP:N	2.30	0.53
1:D:1231:HIS:CE1	1:D:1236:ASN:HB3	2.43	0.53
1:D:1516:TYR:CE1	1:D:1522:LEU:HD12	2.42	0.53
3:F:91:GLU:C	3:F:93:VAL:H	2.17	0.53
1:A:6:LYS:HG2	1:A:38:GLN:O	2.07	0.53
1:A:23:GLY:O	1:A:57:GLY:HA3	2.09	0.53
1:A:547:HIS:CD2	1:A:571:TYR:CE1	2.97	0.53
1:A:1201:MET:O	1:A:1204:THR:HB	2.08	0.53
1:A:1383:PRO:HA	2:B:584:LYS:HD3	1.90	0.53
1:A:1414:VAL:HB	1:A:1441:ARG:HB3	1.91	0.53
1:A:1543:PHE:HD1	3:C:37:PHE:CZ	2.12	0.53
2:B:61:ILE:HD13	2:B:69:ILE:HD11	1.91	0.53
1:D:23:GLY:O	1:D:57:GLY:HA3	2.09	0.53
1:D:29:LEU:HD13	1:D:64:ILE:HD11	1.89	0.53
1:D:31:ILE:O	2:E:536:LEU:HD22	2.09	0.53
1:D:102:TRP:O	1:D:105:LEU:N	2.42	0.53
1:D:1003:ALA:HB1	1:D:1007:PHE:CE2	2.43	0.53
1:D:1095:MET:SD	1:D:1102:GLU:HA	2.49	0.53
1:D:1332:ILE:CG2	1:D:1337:ARG:HD3	2.37	0.53
1:D:1394:PRO:HD3	1:D:1407:GLN:OE1	2.08	0.53
2:E:671:ALA:C	2:E:674:GLY:H	2.15	0.53
3:F:142:GLY:O	3:F:145:MET:N	2.42	0.53
1:A:1062:MET:O	1:A:1066:ILE:HG13	2.08	0.53
1:A:1153:LEU:O	1:A:1157:LEU:HG	2.09	0.53
1:A:1237:TYR:HB2	1:A:1291:GLY:HA3	1.91	0.53
1:A:1302:LYS:HB2	1:A:1303:GLU:OE1	2.08	0.53
1:A:1393:ALA:HA	1:A:1399:LYS:HZ1	1.74	0.53
1:A:1442:PHE:O	1:A:1468:SER:CA	2.39	0.53
1:A:1493:SER:H	1:A:1496:GLU:CD	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1601:ARG:HH11	1:A:1601:ARG:C	2.16	0.53
2:B:125:GLY:HA2	2:B:128:LEU:HG	1.90	0.53
2:B:206:GLU:O	2:B:210:LEU:HG	2.08	0.53
1:D:942:UNK:O	1:D:943:UNK:C	2.56	0.53
1:D:994:MET:CE	1:D:1058:LYS:HZ1	2.20	0.53
1:D:1345:VAL:HG23	1:D:1406:ILE:CG2	2.38	0.53
1:D:1459:PHE:HA	1:D:1462:MET:HB3	1.91	0.53
1:D:1480:ARG:C	1:D:1481:TRP:CE3	2.87	0.53
1:D:1578:PRO:HB2	1:D:1579:PHE:CE1	2.43	0.53
2:E:60:TYR:CE2	2:E:116:PHE:HB2	2.44	0.53
2:E:576:TYR:HB2	2:E:598:GLU:OE1	2.09	0.53
2:E:614:LYS:O	2:E:673:LEU:HD21	2.09	0.53
3:F:171:GLU:OE1	3:F:174:ARG:HD2	2.08	0.53
1:A:884:UNK:O	1:A:885:UNK:C	2.57	0.53
1:A:1300:LEU:O	1:A:1301:CYS:C	2.49	0.53
1:A:1371:ARG:O	1:A:1371:ARG:NH1	2.42	0.53
2:B:532:PRO:HG3	2:B:708:ASP:HA	1.90	0.53
3:C:91:GLU:C	3:C:93:VAL:H	2.17	0.53
3:C:100:GLU:CD	3:C:103:HIS:CD2	2.87	0.53
3:C:111:ILE:HA	3:C:151:ALA:CA	2.26	0.53
1:D:992:MET:O	1:D:993:SER:C	2.52	0.53
1:D:1237:TYR:HB2	1:D:1291:GLY:HA3	1.91	0.53
1:D:1360:VAL:N	1:D:1483:GLU:OE1	2.38	0.53
1:D:1414:VAL:HB	1:D:1441:ARG:HB3	1.91	0.53
1:D:1426:VAL:HG11	1:D:1430:ILE:HD11	1.91	0.53
2:E:60:TYR:HE2	2:E:116:PHE:HB2	1.73	0.53
2:E:298:GLN:HA	2:E:301:THR:HG22	1.89	0.53
2:E:551:GLN:O	2:E:552:ARG:C	2.52	0.53
3:F:28:PHE:CD1	3:F:29:PRO:HD2	2.43	0.53
3:F:54:GLY:O	3:F:56:TRP:HD1	1.92	0.53
1:A:571:TYR:HD2	1:A:573:HIS:H	1.56	0.53
1:A:1187:ASP:O	1:A:1191:VAL:HG13	2.09	0.53
1:A:1302:LYS:HB2	1:A:1303:GLU:CD	2.34	0.53
1:A:1336:LEU:HD23	1:A:1336:LEU:H	1.73	0.53
1:A:1351:GLY:C	1:A:1404:GLN:HG3	2.34	0.53
1:A:1353:PRO:CD	1:A:1356:LEU:HD12	2.39	0.53
1:A:1426:VAL:HG11	1:A:1430:ILE:HD11	1.91	0.53
1:A:1459:PHE:HA	1:A:1462:MET:HB3	1.91	0.53
1:A:1495:LEU:O	1:A:1496:GLU:C	2.51	0.53
1:A:1504:THR:O	1:A:1505:ALA:C	2.52	0.53
1:A:1532:ASN:HD22	3:C:58:THR:HG22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:21:ILE:HD13	3:C:34:PRO:HA	1.90	0.53
3:C:148:GLU:CD	3:C:149:ILE:HG23	2.34	0.53
3:C:170:ASP:C	3:C:174:ARG:NH1	2.62	0.53
1:D:19:PHE:HB3	1:D:29:LEU:HB2	1.91	0.53
1:D:47:GLY:O	1:D:56:GLN:HG2	2.08	0.53
1:D:165:VAL:HB	1:D:167:ASP:OD1	2.09	0.53
1:D:1018:HIS:HA	1:D:1021:PHE:HA	1.91	0.53
1:D:1109:PRO:HB3	1:D:1160:CYS:SG	2.49	0.53
1:D:1128:PHE:O	1:D:1132:ILE:HG13	2.09	0.53
1:D:1175:VAL:CG2	1:D:1176:ASN:N	2.72	0.53
1:D:1256:GLU:N	1:D:1273:HIS:H	2.03	0.53
1:D:1273:HIS:ND1	1:D:1274:ARG:N	2.57	0.53
1:D:1302:LYS:HB2	1:D:1303:GLU:CD	2.34	0.53
1:D:1504:THR:O	1:D:1505:ALA:C	2.52	0.53
1:D:1607:LYS:HA	1:D:1610:LYS:HD2	1.92	0.53
3:F:16:LYS:HA	3:F:19:LEU:HD22	1.91	0.53
1:A:19:PHE:HB3	1:A:29:LEU:HB2	1.91	0.52
1:A:47:GLY:H	1:A:59:PHE:HE1	1.56	0.52
1:A:1130:ASN:C	1:A:1216:ARG:HH12	2.14	0.52
1:A:1303:GLU:O	1:A:1304:LEU:C	2.52	0.52
1:A:1352:PHE:HB3	1:A:1356:LEU:HB2	1.92	0.52
1:A:1480:ARG:C	1:A:1481:TRP:CE3	2.86	0.52
1:A:1607:LYS:HA	1:A:1610:LYS:HD2	1.92	0.52
3:C:16:LYS:HA	3:C:19:LEU:HD22	1.91	0.52
1:D:48:TYR:CD2	1:D:53:LYS:HA	2.43	0.52
1:D:1341:ASP:C	1:D:1342:TYR:HD1	2.16	0.52
1:D:1359:LYS:HG3	1:D:1361:PHE:CZ	2.43	0.52
1:D:1457:ASN:OD1	1:D:1459:PHE:HB2	2.08	0.52
1:D:1493:SER:H	1:D:1496:GLU:CD	2.17	0.52
1:D:1516:TYR:CD2	1:D:1516:TYR:N	2.76	0.52
2:E:246:VAL:O	2:E:250:LEU:HG	2.09	0.52
2:E:585:VAL:HG12	2:E:586:LEU:N	2.24	0.52
1:A:429:THR:OG1	1:A:491:GLU:O	2.26	0.52
1:A:508:ARG:NH2	1:A:561:ASP:O	2.34	0.52
1:A:1273:HIS:ND1	1:A:1274:ARG:N	2.57	0.52
1:A:1371:ARG:NH2	1:A:1408:CYS:C	2.67	0.52
1:A:1371:ARG:C	1:A:1374:PHE:HB3	2.35	0.52
1:A:1434:TYR:HA	1:A:1437:ASN:HD22	1.73	0.52
2:B:548:ILE:O	2:B:552:ARG:HG2	2.10	0.52
3:C:66:ARG:HA	3:C:69:PRO:HB2	1.92	0.52
1:D:1132:ILE:HG22	1:D:1136:LEU:HG	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1332:ILE:HG23	1:D:1337:ARG:CD	2.38	0.52
1:D:1351:GLY:C	1:D:1404:GLN:HG3	2.34	0.52
1:D:1353:PRO:CD	1:D:1356:LEU:HD12	2.39	0.52
1:D:1441:ARG:CZ	1:D:1488:SER:HB3	2.40	0.52
1:A:424:ASN:N	1:A:609:THR:OG1	2.36	0.52
1:A:904:UNK:O	1:A:905:UNK:C	2.58	0.52
1:A:1095:MET:SD	1:A:1102:GLU:HA	2.49	0.52
1:A:1140:VAL:CG1	1:A:1189:ARG:HB2	2.38	0.52
1:A:1239:GLU:HA	1:A:1242:TYR:HD1	1.73	0.52
1:A:1360:VAL:N	1:A:1483:GLU:OE1	2.38	0.52
1:A:1364:ARG:NH1	1:A:1476:PRO:HB3	2.24	0.52
1:A:1411:VAL:HG21	1:A:1442:PHE:CB	2.34	0.52
1:D:429:THR:OG1	1:D:491:GLU:O	2.26	0.52
1:D:506:HIS:HD2	1:D:508:ARG:HG2	1.72	0.52
1:D:571:TYR:HD2	1:D:573:HIS:H	1.56	0.52
1:D:989:TRP:N	1:D:989:TRP:HD1	2.07	0.52
1:D:1153:LEU:O	1:D:1157:LEU:HG	2.09	0.52
1:D:1375:GLN:HB3	1:D:1376:MET:HE2	1.91	0.52
1:D:1386:GLU:OE1	1:D:1405:TYR:HA	2.09	0.52
1:D:1557:ARG:NH1	1:D:1558:ASP:OD1	2.42	0.52
2:E:280:ILE:HG13	2:E:281:ARG:HG3	1.90	0.52
2:E:591:LEU:HD22	2:E:599:VAL:H	1.74	0.52
1:A:47:GLY:O	1:A:56:GLN:HG2	2.08	0.52
1:A:127:TRP:N	1:A:127:TRP:CD1	2.75	0.52
1:A:1132:ILE:HG22	1:A:1136:LEU:HG	1.91	0.52
1:A:1248:THR:HG22	1:A:1280:LEU:CD2	2.39	0.52
1:A:1341:ASP:C	1:A:1342:TYR:HD1	2.16	0.52
1:A:1441:ARG:CZ	1:A:1488:SER:HB3	2.40	0.52
1:A:1475:LEU:HD23	1:A:1477:GLY:H	1.74	0.52
3:C:129:LEU:HD22	3:C:136:PRO:N	2.24	0.52
1:D:128:ARG:HD3	2:E:699:LEU:CD2	2.40	0.52
1:D:547:HIS:HA	1:D:571:TYR:CE1	2.44	0.52
1:D:1061:ASP:O	1:D:1064:ARG:HG2	2.09	0.52
1:D:1173:ASN:O	1:D:1176:ASN:OD1	2.27	0.52
1:D:1227:LEU:O	1:D:1228:ARG:C	2.51	0.52
1:D:1304:LEU:O	1:D:1308:TYR:HD2	1.93	0.52
1:D:1364:ARG:NH1	1:D:1476:PRO:HB3	2.24	0.52
1:D:1371:ARG:C	1:D:1374:PHE:HB3	2.35	0.52
1:D:1393:ALA:HA	1:D:1399:LYS:HZ1	1.75	0.52
1:D:1523:PRO:C	1:D:1525:ASN:H	2.16	0.52
2:E:670:ASN:HB3	2:E:675:LYS:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1018:HIS:HA	1:A:1021:PHE:HA	1.91	0.52
1:A:1238:THR:HA	1:A:1288:PHE:CZ	2.45	0.52
1:A:1250:LEU:O	1:A:1251:LEU:HD12	2.09	0.52
1:A:1274:ARG:NH1	1:A:1275:GLN:HA	2.24	0.52
1:A:1295:GLU:CD	1:A:1295:GLU:N	2.50	0.52
1:A:1383:PRO:O	2:B:584:LYS:HD3	2.10	0.52
1:A:1386:GLU:OE1	1:A:1405:TYR:HA	2.09	0.52
1:A:1412:GLN:HB2	1:A:1443:HIS:HB2	1.91	0.52
1:A:1417:GLU:OE1	1:A:1419:PRO:HG3	2.10	0.52
1:A:1419:PRO:O	1:A:1422:LYS:N	2.43	0.52
1:A:1557:ARG:NH1	1:A:1558:ASP:OD1	2.42	0.52
2:B:542:PRO:O	2:B:546:GLU:HG2	2.10	0.52
2:B:548:ILE:HG22	2:B:552:ARG:HD3	1.90	0.52
3:C:19:LEU:HA	3:C:159:ALA:CB	2.37	0.52
1:D:14:VAL:HG22	2:E:701:LEU:HD13	1.89	0.52
1:D:45:TYR:CE2	1:D:61:LYS:HA	2.45	0.52
1:D:187:HIS:HB3	1:D:989:TRP:CZ3	2.45	0.52
1:D:1248:THR:HG22	1:D:1280:LEU:CD2	2.39	0.52
1:D:1371:ARG:NH2	1:D:1408:CYS:C	2.67	0.52
1:D:1441:ARG:NH2	1:D:1470:VAL:N	2.53	0.52
2:E:581:PRO:C	2:E:583:HIS:H	2.16	0.52
3:F:66:ARG:HA	3:F:69:PRO:HB2	1.92	0.52
1:A:1222:ARG:O	1:A:1225:TYR:HB2	2.09	0.52
1:A:1252:LYS:HG3	1:A:1273:HIS:NE2	2.24	0.52
1:A:1315:TYR:HB2	1:A:1316:GLU:OE2	2.10	0.52
1:A:1529:MET:HG3	3:C:56:TRP:CB	2.40	0.52
3:C:8:VAL:CG2	3:C:79:LEU:HD12	2.39	0.52
3:C:9:VAL:HG22	3:C:80:ILE:HG12	1.92	0.52
3:C:128:LYS:HA	3:C:131:GLU:HG2	1.91	0.52
1:D:38:GLN:H	1:D:47:GLY:CA	2.21	0.52
1:D:904:UNK:O	1:D:905:UNK:C	2.58	0.52
1:D:1250:LEU:O	1:D:1251:LEU:HD12	2.09	0.52
1:D:1428:ASP:HB3	1:D:1431:ILE:CG2	2.38	0.52
1:D:1475:LEU:HD23	1:D:1477:GLY:H	1.74	0.52
1:D:1502:MET:O	1:D:1503:SER:C	2.52	0.52
1:D:1543:PHE:CG	1:D:1544:ALA:N	2.76	0.52
2:E:13:GLU:HG2	2:E:19:PRO:HB3	1.92	0.52
2:E:540:ILE:HD12	2:E:697:ARG:HH12	1.74	0.52
3:F:128:LYS:HA	3:F:131:GLU:HG2	1.91	0.52
1:A:1034:VAL:HA	1:A:1037:ILE:HG22	1.92	0.52
1:A:1304:LEU:O	1:A:1308:TYR:HD2	1.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1375:GLN:HB3	1:A:1376:MET:HE2	1.91	0.52
1:A:1601:ARG:NH1	1:A:1601:ARG:HG2	2.25	0.52
2:B:574:PHE:HB3	2:B:591:LEU:HB3	1.92	0.52
3:C:91:GLU:C	3:C:93:VAL:N	2.68	0.52
1:D:1029:TYR:CD2	1:D:1030:PHE:CD1	2.97	0.52
1:D:1038:THR:HG22	1:D:1039:GLN:HG2	1.92	0.52
1:D:1201:MET:O	1:D:1204:THR:HB	2.08	0.52
1:D:1238:THR:HA	1:D:1288:PHE:CZ	2.45	0.52
1:D:1346:GLY:C	1:D:1406:ILE:HA	2.28	0.52
1:D:1394:PRO:O	1:D:1399:LYS:NZ	2.41	0.52
1:D:1417:GLU:OE1	1:D:1419:PRO:HG3	2.10	0.52
1:D:1581:GLY:O	1:D:1584:ILE:HB	2.09	0.52
2:E:614:LYS:NZ	2:E:646:TYR:O	2.43	0.52
3:F:100:GLU:CD	3:F:103:HIS:CD2	2.87	0.52
1:A:45:TYR:CE2	1:A:61:LYS:HA	2.45	0.52
1:A:119:SER:OG	1:A:120:MET:N	2.43	0.52
1:A:427:TYR:N	1:A:605:LEU:O	2.37	0.52
1:A:1061:ASP:O	1:A:1064:ARG:HG2	2.09	0.52
1:A:1308:TYR:CE1	1:A:1318:LEU:N	2.73	0.52
1:A:1370:ARG:CG	1:A:1373:ASP:H	2.23	0.52
1:D:508:ARG:HD3	1:D:529:MET:HE1	1.92	0.52
1:D:1371:ARG:O	1:D:1371:ARG:NH1	2.42	0.52
1:D:1371:ARG:NE	1:D:1409:PHE:HA	2.25	0.52
2:E:324:ILE:HG22	2:E:356:TYR:CE2	2.45	0.52
3:F:8:VAL:CG2	3:F:79:LEU:HD12	2.39	0.52
3:F:94:ARG:HH11	3:F:94:ARG:CG	2.14	0.52
3:F:129:LEU:HD22	3:F:136:PRO:N	2.24	0.52
1:A:989:TRP:N	1:A:989:TRP:HD1	2.07	0.52
1:A:1175:VAL:CG2	1:A:1176:ASN:N	2.72	0.52
1:A:1332:ILE:HG23	1:A:1337:ARG:CD	2.38	0.52
1:A:1343:PHE:CE2	1:A:1369:GLU:O	2.63	0.52
1:A:1609:LEU:O	1:A:1613:VAL:HG23	2.10	0.52
2:B:320:GLN:NE2	2:B:320:GLN:O	2.43	0.52
2:B:323:ILE:HG21	2:B:381:LEU:HD21	1.91	0.52
3:C:73:PRO:O	3:C:74:GLN:NE2	2.43	0.52
3:C:102:ARG:HH22	3:C:106:PRO:HA	1.75	0.52
1:D:1178:VAL:HA	1:D:1181:LEU:HD22	1.90	0.52
1:D:1274:ARG:NH1	1:D:1275:GLN:HA	2.24	0.52
2:E:685:ASP:O	2:E:686:LEU:C	2.53	0.52
3:F:21:ILE:HD13	3:F:34:PRO:HA	1.90	0.52
3:F:49:LYS:O	3:F:51:VAL:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:UNK:HA	1:A:261:UNK:O	2.10	0.52
1:A:466:VAL:HG21	1:A:471:LYS:HD2	1.92	0.52
1:A:948:UNK:O	1:A:1002:ARG:NH1	2.43	0.52
1:A:1038:THR:HG22	1:A:1039:GLN:HG2	1.92	0.52
1:A:1040:ASP:C	1:A:1042:LEU:N	2.65	0.52
1:A:1053:ASN:OD1	1:A:1054:LYS:N	2.41	0.52
1:A:1173:ASN:O	1:A:1176:ASN:OD1	2.27	0.52
1:A:1255:ASP:CG	1:A:1274:ARG:HD3	2.35	0.52
1:A:1410:THR:CB	3:C:26:ASN:O	2.58	0.52
1:A:1502:MET:O	1:A:1503:SER:C	2.52	0.52
3:C:39:ASN:HA	3:C:57:ASP:H	1.75	0.52
3:C:49:LYS:O	3:C:51:VAL:N	2.43	0.52
3:C:83:SER:OG	3:C:115:THR:HB	2.10	0.52
1:D:111:LYS:CA	1:D:114:PHE:HB3	2.40	0.52
1:D:1129:GLU:O	1:D:1133:ILE:HG12	2.10	0.52
1:D:1171:VAL:O	1:D:1172:GLU:C	2.53	0.52
1:D:1187:ASP:O	1:D:1191:VAL:HG13	2.10	0.52
1:D:1297:ALA:HB1	1:D:1328:PHE:CD1	2.45	0.52
1:D:1315:TYR:HB2	1:D:1316:GLU:OE2	2.10	0.52
1:D:1419:PRO:O	1:D:1422:LYS:N	2.43	0.52
1:D:1601:ARG:NH1	1:D:1601:ARG:HG2	2.25	0.52
1:D:1609:LEU:O	1:D:1613:VAL:HG23	2.10	0.52
2:E:33:ILE:O	2:E:37:VAL:HG23	2.09	0.52
3:F:9:VAL:HG22	3:F:80:ILE:HG12	1.92	0.52
3:F:20:LEU:O	3:F:24:THR:HG23	2.10	0.52
3:F:21:ILE:HG21	3:F:34:PRO:HA	1.93	0.52
3:F:83:SER:OG	3:F:115:THR:HB	2.10	0.52
1:A:531:TYR:HE2	1:A:533:LYS:HB3	1.75	0.51
1:A:1001:LEU:HD21	1:A:1065:LEU:HD13	1.91	0.51
1:A:1337:ARG:C	3:C:1:MET:HE1	2.35	0.51
1:A:1449:ARG:HD3	1:A:1462:MET:HA	1.91	0.51
1:A:1537:PRO:HA	3:C:37:PHE:CE1	2.46	0.51
1:D:16:ILE:CD1	2:E:701:LEU:HD11	2.40	0.51
1:D:63:PHE:O	1:D:64:ILE:HG12	2.11	0.51
1:D:531:TYR:HE2	1:D:533:LYS:HB3	1.75	0.51
1:D:1151:GLN:OE1	1:D:1151:GLN:N	2.33	0.51
1:D:1271:GLN:HB2	1:D:1276:LEU:HD11	1.91	0.51
1:D:1339:LYS:HG3	1:D:1340:PRO:O	2.10	0.51
1:D:1364:ARG:HG2	1:D:1365:GLY:H	1.75	0.51
1:D:1580:LEU:HB2	1:D:1606:PHE:HE1	1.75	0.51
2:E:105:LYS:HA	2:E:157:PHE:CD2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:608:LEU:HD13	2:E:644:ILE:HD12	1.91	0.51
2:E:684:ASN:C	2:E:684:ASN:OD1	2.52	0.51
1:A:167:ASP:OD2	1:A:175:PRO:N	2.44	0.51
1:A:547:HIS:HA	1:A:571:TYR:CE1	2.44	0.51
1:A:799:UNK:C	1:A:802:UNK:N	2.73	0.51
1:A:1129:GLU:O	1:A:1133:ILE:HG12	2.10	0.51
1:A:1271:GLN:HB2	1:A:1276:LEU:HD11	1.91	0.51
1:A:1339:LYS:HG3	1:A:1340:PRO:O	2.11	0.51
1:A:1383:PRO:CA	2:B:582:ASN:HB2	2.41	0.51
1:A:1529:MET:HG2	3:C:39:ASN:CG	2.35	0.51
1:A:1579:PHE:HA	1:A:1582:ALA:N	2.18	0.51
1:A:1581:GLY:N	1:A:1584:ILE:HD12	2.25	0.51
2:B:687:ASP:HA	2:B:690:LEU:HG	1.90	0.51
3:C:1:MET:HA	3:C:50:PRO:O	2.10	0.51
3:C:139:TYR:O	3:C:142:GLY:HA3	2.11	0.51
3:C:171:GLU:OE2	3:C:174:ARG:NH1	2.44	0.51
1:D:1231:HIS:HE1	1:D:1239:GLU:CB	2.22	0.51
1:D:1255:ASP:CG	1:D:1274:ARG:HD3	2.35	0.51
1:D:1290:LYS:O	1:D:1292:LYS:HG3	2.10	0.51
1:D:1319:SER:O	1:D:1322:LEU:HG	2.10	0.51
1:D:1499:ILE:HD11	1:D:1565:LYS:O	2.10	0.51
1:D:1581:GLY:CA	1:D:1584:ILE:HB	2.39	0.51
2:E:557:VAL:HG22	2:E:579:LEU:HD22	1.93	0.51
3:F:161:THR:OG1	3:F:163:ARG:HB3	2.11	0.51
1:A:430:LEU:HD13	1:A:448:VAL:CG1	2.41	0.51
1:A:1175:VAL:O	1:A:1176:ASN:C	2.52	0.51
1:A:1175:VAL:C	1:A:1179:LYS:HB2	2.35	0.51
1:A:1211:TYR:HB2	1:A:1220:TYR:CD1	2.43	0.51
1:A:1239:GLU:HA	1:A:1242:TYR:CD1	2.45	0.51
1:A:1441:ARG:HD3	1:A:1468:SER:HB2	1.92	0.51
1:A:1490:THR:HG23	1:A:1491:THR:N	2.25	0.51
1:A:1527:LEU:HB2	1:A:1587:HIS:ND1	2.25	0.51
2:B:573:LYS:H	2:B:573:LYS:HD2	1.74	0.51
3:C:82:PHE:HE1	3:C:154:TYR:HE1	1.58	0.51
1:D:167:ASP:OD2	1:D:175:PRO:N	2.44	0.51
1:D:430:LEU:HD13	1:D:448:VAL:CG1	2.41	0.51
1:D:948:UNK:O	1:D:1002:ARG:NH1	2.43	0.51
1:D:1441:ARG:HD3	1:D:1468:SER:HB2	1.92	0.51
1:D:1513:ILE:HG13	1:D:1514:ASN:N	2.26	0.51
2:E:683:ARG:HA	2:E:686:LEU:HB3	1.92	0.51
1:A:1420:ARG:O	1:D:1313:PHE:CZ	2.63	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1442:PHE:HB2	1:A:1469:PHE:HB2	1.92	0.51
3:C:94:ARG:HB3	3:C:145:MET:HE1	1.92	0.51
1:D:4:TRP:HZ3	1:D:45:TYR:O	1.93	0.51
1:D:40:THR:HG1	1:D:45:TYR:HA	1.76	0.51
1:D:1126:LYS:O	1:D:1130:ASN:N	2.32	0.51
1:D:1242:TYR:O	1:D:1245:LEU:N	2.44	0.51
1:D:1386:GLU:HB3	1:D:1404:GLN:O	2.11	0.51
1:D:1529:MET:HE2	3:F:56:TRP:CE2	2.46	0.51
2:E:642:PHE:O	2:E:653:ASN:HA	2.11	0.51
2:E:702:GLU:HG3	2:E:703:ASN:OD1	2.09	0.51
3:F:102:ARG:HH22	3:F:106:PRO:HA	1.75	0.51
1:A:531:TYR:O	1:A:565:TYR:HE2	1.94	0.51
1:A:994:MET:CE	1:A:1058:LYS:HZ1	2.22	0.51
1:A:1225:TYR:O	1:A:1226:LYS:C	2.54	0.51
1:A:1362:ILE:HD11	1:A:1484:VAL:HG22	1.93	0.51
1:A:1386:GLU:HB3	1:A:1404:GLN:O	2.10	0.51
1:A:1500:GLU:O	1:A:1501:THR:C	2.54	0.51
1:A:1581:GLY:CA	1:A:1584:ILE:HB	2.39	0.51
3:C:21:ILE:HG21	3:C:34:PRO:HA	1.93	0.51
3:C:114:GLY:N	3:C:154:TYR:OH	2.44	0.51
1:D:113:ARG:O	1:D:117:VAL:HG12	2.11	0.51
1:D:1225:TYR:O	1:D:1226:LYS:C	2.54	0.51
1:D:1239:GLU:HA	1:D:1242:TYR:CD1	2.45	0.51
1:D:1303:GLU:O	1:D:1304:LEU:C	2.52	0.51
1:D:1343:PHE:CE2	1:D:1369:GLU:O	2.63	0.51
1:D:1449:ARG:HD3	1:D:1462:MET:HA	1.91	0.51
1:D:1537:PRO:HB2	1:D:1541:GLY:HA2	1.92	0.51
2:E:467:TRP:CD2	2:E:472:ALA:HB3	2.45	0.51
2:E:643:SER:OG	2:E:652:LEU:O	2.28	0.51
2:E:684:ASN:CG	2:E:685:ASP:OD1	2.54	0.51
3:F:148:GLU:CD	3:F:149:ILE:HG23	2.34	0.51
1:A:63:PHE:O	1:A:64:ILE:HG12	2.10	0.51
1:A:187:HIS:HB3	1:A:989:TRP:CZ3	2.45	0.51
1:A:269:UNK:HA	1:A:275:UNK:N	2.25	0.51
1:A:498:PRO:O	1:A:502:MET:N	2.28	0.51
1:A:514:ARG:HG2	1:A:515:SER:H	1.76	0.51
1:A:1297:ALA:HB1	1:A:1328:PHE:CD1	2.45	0.51
1:A:1319:SER:O	1:A:1322:LEU:HG	2.10	0.51
1:A:1537:PRO:HB2	1:A:1541:GLY:HA2	1.92	0.51
1:D:20:GLN:HE21	2:E:539:LYS:HZ3	1.58	0.51
1:D:239:UNK:HA	1:D:261:UNK:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:269:UNK:HA	1:D:275:UNK:N	2.25	0.51
1:D:1362:ILE:O	1:D:1481:TRP:HB2	2.11	0.51
1:D:1362:ILE:HD11	1:D:1484:VAL:HG22	1.93	0.51
1:D:1390:THR:HG21	1:D:1393:ALA:O	2.10	0.51
1:D:1500:GLU:O	1:D:1501:THR:C	2.54	0.51
3:F:143:LEU:O	3:F:143:LEU:HG	2.10	0.51
1:A:571:TYR:HB3	1:A:574:HIS:H	1.76	0.51
1:A:1014:LYS:HG3	1:A:1015:PHE:H	1.76	0.51
1:A:1171:VAL:O	1:A:1172:GLU:C	2.53	0.51
1:A:1201:MET:HG2	1:A:1479:LEU:HD21	1.93	0.51
1:A:1390:THR:HG21	1:A:1393:ALA:O	2.10	0.51
1:A:1503:SER:OG	1:A:1504:THR:N	2.44	0.51
1:A:1513:ILE:HG13	1:A:1514:ASN:N	2.26	0.51
1:A:1576:GLN:NE2	1:A:1580:LEU:HD11	2.26	0.51
2:B:563:ARG:HB3	2:B:655:ILE:HB	1.93	0.51
3:C:54:GLY:O	3:C:56:TRP:HD1	1.92	0.51
3:C:143:LEU:O	3:C:143:LEU:HG	2.10	0.51
3:C:161:THR:OG1	3:C:163:ARG:HB3	2.11	0.51
1:D:466:VAL:HG21	1:D:471:LYS:HD2	1.92	0.51
1:D:495:VAL:HG21	1:D:507:LEU:HD11	1.93	0.51
1:D:799:UNK:C	1:D:802:UNK:N	2.73	0.51
1:D:1017:GLU:O	1:D:1019:THR:HG23	2.11	0.51
1:D:1308:TYR:CE1	1:D:1318:LEU:N	2.73	0.51
1:D:1500:GLU:O	1:D:1503:SER:N	2.44	0.51
1:D:1503:SER:OG	1:D:1504:THR:N	2.44	0.51
1:D:1579:PHE:HA	1:D:1582:ALA:N	2.18	0.51
2:E:479:LYS:HA	2:E:482:GLN:OE1	2.10	0.51
2:E:586:LEU:HB2	2:E:588:TYR:CE1	2.46	0.51
3:F:39:ASN:HA	3:F:57:ASP:H	1.75	0.51
3:F:100:GLU:CA	3:F:103:HIS:HB3	2.40	0.51
3:F:111:ILE:HA	3:F:151:ALA:CA	2.26	0.51
3:F:176:VAL:HG22	3:F:177:LEU:HD12	1.93	0.51
1:A:220:UNK:N	1:A:389:UNK:HA	2.26	0.51
1:A:444:ARG:HG3	1:A:513:HIS:HA	1.93	0.51
1:A:1133:ILE:O	1:A:1137:ASP:N	2.30	0.51
1:A:1148:GLN:O	1:A:1152:LEU:HG	2.11	0.51
1:A:1225:TYR:HB3	1:A:1228:ARG:HH21	1.74	0.51
1:A:1229:ASP:O	1:A:1232:LEU:HB2	2.11	0.51
1:A:1290:LYS:O	1:A:1292:LYS:HG3	2.11	0.51
1:A:1371:ARG:NE	1:A:1409:PHE:HA	2.25	0.51
1:A:1463:TRP:CD1	1:A:1494:PRO:HG3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1474:LYS:O	1:A:1475:LEU:HG	2.10	0.51
1:A:1534:ILE:O	3:C:37:PHE:CE1	2.63	0.51
3:C:64:TYR:HB3	3:C:68:ARG:N	2.25	0.51
1:D:427:TYR:N	1:D:605:LEU:O	2.37	0.51
1:D:1014:LYS:HG3	1:D:1015:PHE:H	1.76	0.51
3:F:94:ARG:HB3	3:F:145:MET:HE1	1.92	0.51
3:F:114:GLY:N	3:F:154:TYR:OH	2.44	0.51
1:A:32:GLY:HA3	2:B:697:ARG:CD	2.41	0.51
1:A:442:THR:O	1:A:444:ARG:N	2.35	0.51
1:A:1227:LEU:O	1:A:1228:ARG:C	2.51	0.51
1:A:1231:HIS:HE1	1:A:1239:GLU:CB	2.22	0.51
1:A:1340:PRO:C	1:A:1341:ASP:CG	2.79	0.51
1:A:1390:THR:HG23	1:A:1407:GLN:NE2	2.26	0.51
2:B:111:SER:OG	2:B:165:LEU:HG	2.11	0.51
2:B:579:LEU:HD11	2:B:610:VAL:HG21	1.93	0.51
1:D:531:TYR:O	1:D:565:TYR:HE2	1.94	0.51
1:D:884:UNK:O	1:D:885:UNK:C	2.57	0.51
1:D:1175:VAL:C	1:D:1179:LYS:HB2	2.35	0.51
1:D:1225:TYR:HB3	1:D:1228:ARG:HH21	1.74	0.51
1:D:1340:PRO:C	1:D:1342:TYR:HE1	2.19	0.51
1:D:1352:PHE:O	1:D:1357:ARG:CZ	2.59	0.51
1:D:1353:PRO:CG	1:D:1356:LEU:HD12	2.41	0.51
1:D:1465:GLU:N	1:D:1491:THR:HG23	2.26	0.51
1:D:1474:LYS:O	1:D:1475:LEU:HG	2.10	0.51
2:E:244:ILE:HG13	2:E:290:MET:HE1	1.93	0.51
3:F:118:ASP:OD1	3:F:119:LEU:HG	2.11	0.51
3:F:129:LEU:HD23	3:F:132:LYS:CE	2.41	0.51
1:A:20:GLN:HA	1:A:28:SER:HA	1.92	0.51
1:A:99:GLY:O	1:A:103:LYS:HG2	2.11	0.51
1:A:548:ASP:HA	1:A:601:SER:HA	1.93	0.51
1:A:1073:MET:SD	1:A:1077:LEU:HD11	2.51	0.51
1:A:1222:ARG:O	1:A:1226:LYS:HG3	2.11	0.51
1:A:1414:VAL:HB	1:A:1441:ARG:C	2.37	0.51
2:B:640:LEU:HD22	2:B:656:ALA:HB3	1.93	0.51
2:B:702:GLU:O	2:B:704:ILE:HG13	2.11	0.51
1:D:514:ARG:HG2	1:D:515:SER:H	1.76	0.51
1:D:515:SER:OG	1:D:517:LEU:N	2.44	0.51
1:D:1293:MET:CE	1:D:1364:ARG:HH12	2.22	0.51
1:D:1297:ALA:HB1	1:D:1328:PHE:CZ	2.46	0.51
1:D:1352:PHE:HB3	1:D:1356:LEU:HB2	1.92	0.51
1:D:1390:THR:HG23	1:D:1407:GLN:NE2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:205:LEU:O	2:E:209:VAL:HG22	2.11	0.51
2:E:208:MET:HE2	2:E:215:LEU:HB3	1.92	0.51
2:E:298:GLN:OE1	2:E:442:HIS:N	2.23	0.51
2:E:527:ASP:HA	2:E:533:ILE:HG21	1.92	0.51
1:A:495:VAL:HG21	1:A:507:LEU:HD11	1.93	0.50
1:A:1017:GLU:O	1:A:1019:THR:HG23	2.11	0.50
1:A:1153:LEU:HA	1:A:1156:ILE:HD11	1.93	0.50
1:A:1297:ALA:HB1	1:A:1328:PHE:CZ	2.46	0.50
1:A:1328:PHE:HA	1:A:1331:SER:HB2	1.93	0.50
1:A:1364:ARG:HG2	1:A:1365:GLY:H	1.75	0.50
1:A:1428:ASP:HB3	1:A:1431:ILE:CG2	2.38	0.50
1:A:1433:PHE:HD1	1:A:1436:SER:HB2	1.76	0.50
2:B:420:LEU:HB2	2:B:481:MET:HE1	1.92	0.50
3:C:118:ASP:OD1	3:C:119:LEU:HG	2.11	0.50
1:D:119:SER:OG	1:D:120:MET:N	2.43	0.50
1:D:1001:LEU:HD21	1:D:1065:LEU:HD13	1.91	0.50
1:D:1043:GLN:CG	1:D:1044:LEU:H	2.15	0.50
1:D:1053:ASN:OD1	1:D:1054:LYS:N	2.41	0.50
1:D:1201:MET:HG2	1:D:1479:LEU:HD21	1.93	0.50
1:D:1320:GLN:O	1:D:1321:ASN:C	2.54	0.50
1:D:1370:ARG:CG	1:D:1373:ASP:H	2.23	0.50
1:D:1511:MET:O	1:D:1512:MET:C	2.54	0.50
2:E:575:TRP:HH2	2:E:654:PHE:HE1	1.55	0.50
2:E:664:ILE:HG22	2:E:665:TRP:CD2	2.45	0.50
3:F:91:GLU:C	3:F:93:VAL:N	2.68	0.50
1:A:4:TRP:HZ3	1:A:45:TYR:O	1.94	0.50
1:A:515:SER:OG	1:A:516:SER:N	2.43	0.50
1:A:1130:ASN:N	1:A:1216:ARG:HH22	2.10	0.50
1:A:1161:ALA:O	1:A:1168:ALA:HB2	2.11	0.50
1:A:1316:GLU:HG2	1:D:1334:LYS:HE2	1.93	0.50
3:C:20:LEU:O	3:C:24:THR:HG23	2.10	0.50
3:C:100:GLU:CA	3:C:103:HIS:HB3	2.40	0.50
3:C:129:LEU:HD13	3:C:136:PRO:HB3	1.92	0.50
1:D:98:TRP:CZ2	1:D:155:GLY:HA3	2.46	0.50
1:D:550:VAL:CG2	1:D:572:ARG:HG3	2.30	0.50
1:D:1148:GLN:O	1:D:1152:LEU:HG	2.11	0.50
1:D:1231:HIS:CE1	1:D:1239:GLU:H	2.29	0.50
1:D:1340:PRO:C	1:D:1341:ASP:CG	2.79	0.50
1:D:1389:ASN:O	3:F:28:PHE:HE2	1.94	0.50
1:D:1414:VAL:HB	1:D:1441:ARG:C	2.36	0.50
1:D:1427:PRO:O	1:D:1429:GLN:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:476:ASP:O	2:E:480:VAL:HG23	2.11	0.50
2:E:565:LEU:HB2	2:E:566:ASN:OD1	2.11	0.50
3:F:129:LEU:HD13	3:F:136:PRO:HB3	1.92	0.50
3:F:139:TYR:O	3:F:142:GLY:HA3	2.11	0.50
3:F:171:GLU:OE2	3:F:174:ARG:NH1	2.44	0.50
1:A:111:LYS:NZ	2:B:555:ARG:NH2	2.60	0.50
1:A:113:ARG:O	1:A:117:VAL:HG12	2.11	0.50
1:A:508:ARG:HD3	1:A:529:MET:HE1	1.92	0.50
1:A:984:VAL:HG13	1:A:985:TYR:CD1	2.46	0.50
1:A:1051:LYS:HB3	1:A:1054:LYS:NZ	2.26	0.50
1:A:1231:HIS:CE1	1:A:1239:GLU:H	2.30	0.50
2:B:505:LYS:O	2:B:509:LEU:HG	2.11	0.50
3:C:129:LEU:HD23	3:C:132:LYS:CE	2.41	0.50
1:D:99:GLY:O	1:D:103:LYS:HG2	2.11	0.50
1:D:1071:ARG:HA	1:D:1074:TRP:HB3	1.92	0.50
1:D:1278:GLU:O	1:D:1279:THR:C	2.55	0.50
1:D:1325:GLN:C	1:D:1327:LYS:N	2.69	0.50
1:D:1343:PHE:HD1	1:D:1410:THR:OG1	1.94	0.50
1:D:1412:GLN:HB2	1:D:1443:HIS:HB2	1.91	0.50
1:D:1463:TRP:CD1	1:D:1494:PRO:HG3	2.46	0.50
1:D:1576:GLN:NE2	1:D:1580:LEU:HD11	2.26	0.50
2:E:392:GLN:O	2:E:396:ILE:HG12	2.11	0.50
2:E:479:LYS:O	2:E:483:VAL:HG23	2.12	0.50
3:F:73:PRO:O	3:F:74:GLN:NE2	2.43	0.50
1:A:85:ILE:HG22	1:A:89:GLN:NE2	2.27	0.50
1:A:91:VAL:HG13	1:A:124:LEU:HD23	1.93	0.50
1:A:444:ARG:HH11	1:A:511:PHE:HB3	1.77	0.50
1:A:1032:LEU:O	1:A:1035:ALA:N	2.45	0.50
1:A:1340:PRO:C	1:A:1342:TYR:HE1	2.19	0.50
1:A:1414:VAL:HG22	1:A:1443:HIS:CE1	2.47	0.50
2:B:196:SER:O	2:B:200:ARG:HG2	2.11	0.50
1:D:20:GLN:HA	1:D:28:SER:HA	1.92	0.50
1:D:44:TRP:CE2	2:E:716:GLU:HA	2.46	0.50
1:D:120:MET:O	1:D:123:ASP:N	2.45	0.50
1:D:184:PHE:O	1:D:185:HIS:C	2.54	0.50
1:D:428:ILE:HG13	1:D:495:VAL:HB	1.94	0.50
1:D:1161:ALA:O	1:D:1168:ALA:HB2	2.11	0.50
1:D:1222:ARG:O	1:D:1226:LYS:HG3	2.11	0.50
1:D:1275:GLN:HE22	1:D:1278:GLU:HB3	1.76	0.50
1:D:1581:GLY:N	1:D:1584:ILE:HD12	2.25	0.50
2:E:541:GLN:HE22	2:E:683:ARG:HH21	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:689:LEU:CA	2:E:692:MET:HG2	2.38	0.50
3:F:32:TYR:OH	3:F:34:PRO:HG3	2.11	0.50
3:F:64:TYR:CG	3:F:67:LEU:HB2	2.47	0.50
1:A:565:TYR:HE1	1:A:570:SER:HA	1.77	0.50
1:A:772:UNK:O	1:A:776:UNK:N	2.45	0.50
1:A:1256:GLU:N	1:A:1273:HIS:H	2.03	0.50
1:A:1275:GLN:NE2	1:A:1278:GLU:HB3	2.27	0.50
1:A:1362:ILE:O	1:A:1481:TRP:HB2	2.11	0.50
1:A:1410:THR:HG21	3:C:26:ASN:CG	2.35	0.50
2:B:185:ALA:O	2:B:189:ASN:CB	2.60	0.50
2:B:424:LEU:HA	2:B:427:ILE:HG12	1.94	0.50
1:D:106:TYR:OH	2:E:552:ARG:CZ	2.59	0.50
1:D:984:VAL:HG13	1:D:985:TYR:CD1	2.46	0.50
1:D:1034:VAL:HA	1:D:1037:ILE:HG22	1.92	0.50
1:D:1051:LYS:HB3	1:D:1054:LYS:NZ	2.26	0.50
1:D:1275:GLN:NE2	1:D:1278:GLU:HB3	2.27	0.50
1:D:1328:PHE:HA	1:D:1331:SER:HB2	1.94	0.50
3:F:137:ILE:HG22	3:F:138:THR:O	2.12	0.50
3:F:174:ARG:HA	3:F:176:VAL:HG13	1.94	0.50
1:A:98:TRP:CZ2	1:A:155:GLY:HA3	2.46	0.50
1:A:139:ASP:CG	1:A:140:GLU:N	2.69	0.50
1:A:829:UNK:O	1:A:832:UNK:N	2.44	0.50
1:A:1384:ASN:CG	1:A:1404:GLN:HB2	2.37	0.50
1:A:1431:ILE:HA	1:A:1434:TYR:CG	2.47	0.50
1:A:1494:PRO:HA	1:A:1497:ASN:HB3	1.94	0.50
1:A:1499:ILE:HD11	1:A:1565:LYS:O	2.10	0.50
1:A:1580:LEU:HB2	1:A:1606:PHE:HE1	1.75	0.50
2:B:188:VAL:HG22	2:B:227:GLN:NE2	2.27	0.50
1:D:91:VAL:HG13	1:D:124:LEU:HD23	1.93	0.50
1:D:98:TRP:CE2	1:D:159:LEU:HD22	2.47	0.50
1:D:102:TRP:CZ3	2:E:692:MET:HG3	2.46	0.50
1:D:499:ILE:HG23	1:D:503:GLN:HE21	1.77	0.50
1:D:565:TYR:HE1	1:D:570:SER:HA	1.77	0.50
1:D:1238:THR:C	1:D:1242:TYR:HD1	2.19	0.50
1:D:1397:ASP:HA	1:D:1400:ASN:HB2	1.94	0.50
1:D:1442:PHE:HB2	1:D:1469:PHE:HB2	1.92	0.50
1:D:1508:LYS:N	1:D:1511:MET:HE3	2.26	0.50
1:D:1527:LEU:HB2	1:D:1587:HIS:ND1	2.24	0.50
2:E:370:ASP:HA	2:E:373:GLN:HE22	1.77	0.50
3:F:1:MET:HA	3:F:50:PRO:O	2.10	0.50
3:F:82:PHE:HE1	3:F:154:TYR:HE1	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:98:TRP:CE2	1:A:159:LEU:HD22	2.47	0.50
1:A:120:MET:O	1:A:123:ASP:N	2.45	0.50
1:A:529:MET:HB3	1:A:552:LEU:C	2.37	0.50
1:A:711:UNK:O	1:A:715:UNK:N	2.45	0.50
1:A:1071:ARG:HA	1:A:1074:TRP:HB3	1.92	0.50
1:A:1238:THR:C	1:A:1242:TYR:HD1	2.19	0.50
1:A:1391:THR:HG23	3:C:28:PHE:CD1	2.47	0.50
1:A:1444:TYR:HB2	1:A:1467:THR:O	2.07	0.50
1:A:1500:GLU:O	1:A:1503:SER:N	2.44	0.50
1:A:1511:MET:O	1:A:1512:MET:C	2.54	0.50
1:A:1563:GLN:HA	1:A:1566:LEU:HD23	1.94	0.50
3:C:32:TYR:OH	3:C:34:PRO:HG3	2.11	0.50
3:C:48:GLY:O	3:C:50:PRO:HD3	2.12	0.50
1:D:128:ARG:HH11	2:E:699:LEU:CD2	2.20	0.50
1:D:529:MET:HB3	1:D:552:LEU:C	2.37	0.50
1:D:571:TYR:HB3	1:D:574:HIS:H	1.76	0.50
1:D:829:UNK:O	1:D:832:UNK:N	2.44	0.50
1:D:1032:LEU:O	1:D:1035:ALA:N	2.45	0.50
1:D:1201:MET:O	1:D:1202:SER:C	2.53	0.50
1:D:1242:TYR:HA	1:D:1245:LEU:HB2	1.94	0.50
1:D:1255:ASP:HA	1:D:1273:HIS:CB	2.36	0.50
1:D:1431:ILE:HA	1:D:1434:TYR:CG	2.46	0.50
1:D:1593:ASP:O	1:D:1597:PRO:HD2	2.12	0.50
2:E:120:PHE:CE2	2:E:125:GLY:HA3	2.47	0.50
2:E:540:ILE:O	2:E:544:ILE:HG12	2.11	0.50
2:E:562:PHE:HB2	2:E:575:TRP:O	2.12	0.50
1:A:111:LYS:CA	1:A:114:PHE:HB3	2.40	0.50
1:A:424:ASN:ND2	1:A:609:THR:OG1	2.45	0.50
1:A:515:SER:OG	1:A:517:LEU:N	2.44	0.50
1:A:1066:ILE:C	1:A:1069:SER:HG	2.15	0.50
1:A:1241:ALA:O	1:A:1245:LEU:HD12	2.11	0.50
1:A:1343:PHE:HD1	1:A:1410:THR:OG1	1.94	0.50
1:A:1427:PRO:O	1:A:1429:GLN:N	2.43	0.50
1:A:1458:GLU:O	1:A:1462:MET:N	2.45	0.50
1:A:1463:TRP:CD1	1:A:1494:PRO:HD3	2.47	0.50
1:A:1508:LYS:HA	1:A:1511:MET:SD	2.52	0.50
1:A:1593:ASP:O	1:A:1597:PRO:HD2	2.12	0.50
2:B:33:ILE:O	2:B:37:VAL:HG23	2.11	0.50
2:B:499:LEU:O	2:B:503:LYS:HG3	2.12	0.50
3:C:10:GLY:C	3:C:97:TRP:CZ2	2.90	0.50
1:D:14:VAL:N	1:D:65:HIS:O	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:91:VAL:O	1:D:94:THR:HB	2.12	0.50
1:D:115:LEU:O	1:D:116:GLN:C	2.55	0.50
1:D:220:UNK:N	1:D:389:UNK:HA	2.26	0.50
1:D:1153:LEU:HA	1:D:1156:ILE:HD11	1.93	0.50
1:D:1496:GLU:HG2	1:D:1565:LYS:NZ	2.27	0.50
1:D:1563:GLN:O	1:D:1567:THR:HG23	2.12	0.50
1:D:1575:TRP:CE3	1:D:1620:ARG:HB3	2.42	0.50
3:F:98:TYR:HB2	3:F:149:ILE:CD1	2.42	0.50
1:A:497:VAL:O	1:A:502:MET:HG3	2.11	0.50
1:A:1020:ASN:C	1:A:1022:GLU:H	2.20	0.50
1:A:1275:GLN:NE2	1:A:1275:GLN:O	2.45	0.50
1:A:1320:GLN:C	1:A:1324:GLN:HE22	2.20	0.50
1:A:1346:GLY:HA3	1:A:1407:GLN:HB2	1.94	0.50
1:A:1587:HIS:CG	1:A:1591:VAL:HG11	2.47	0.50
2:B:8:VAL:HG21	2:B:69:ILE:HG22	1.94	0.50
3:C:64:TYR:CG	3:C:67:LEU:HB2	2.47	0.50
3:C:81:CYS:HA	3:C:113:VAL:HG13	1.93	0.50
3:C:98:TYR:HB2	3:C:149:ILE:CD1	2.41	0.50
3:C:132:LYS:HZ2	3:C:134:LEU:HB2	1.77	0.50
3:C:176:VAL:HG22	3:C:177:LEU:HD12	1.93	0.50
1:D:444:ARG:HH11	1:D:511:PHE:HB3	1.77	0.50
1:D:1073:MET:SD	1:D:1077:LEU:HD11	2.51	0.50
1:D:1132:ILE:C	1:D:1136:LEU:HG	2.37	0.50
1:D:1275:GLN:NE2	1:D:1275:GLN:O	2.45	0.50
1:D:1429:GLN:O	1:D:1432:ASN:ND2	2.42	0.50
1:D:1458:GLU:O	1:D:1462:MET:N	2.45	0.50
1:D:1508:LYS:HA	1:D:1511:MET:SD	2.52	0.50
1:D:1529:MET:HE2	3:F:56:TRP:NE1	2.27	0.50
2:E:562:PHE:CZ	2:E:665:TRP:CE2	2.99	0.50
3:F:69:PRO:HG3	3:F:100:GLU:OE2	2.11	0.50
1:A:91:VAL:O	1:A:94:THR:HB	2.12	0.49
1:A:428:ILE:HG13	1:A:495:VAL:HB	1.94	0.49
1:A:1107:THR:O	1:A:1108:ILE:C	2.55	0.49
1:A:1255:ASP:HA	1:A:1273:HIS:CB	2.36	0.49
1:A:1278:GLU:O	1:A:1279:THR:C	2.55	0.49
1:A:1351:GLY:HA3	1:A:1384:ASN:ND2	2.27	0.49
1:A:1391:THR:CG2	3:C:28:PHE:HB2	2.33	0.49
1:A:1440:GLN:HA	1:A:1471:THR:HG1	1.76	0.49
3:C:95:ALA:O	3:C:99:PRO:HG2	2.12	0.49
3:C:162:GLN:HG2	3:C:165:LEU:HD21	1.94	0.49
3:C:174:ARG:HA	3:C:176:VAL:HG13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:15:ALA:HA	1:D:64:ILE:HD13	1.94	0.49
1:D:139:ASP:CG	1:D:140:GLU:N	2.69	0.49
1:D:497:VAL:O	1:D:502:MET:HG3	2.11	0.49
1:D:497:VAL:HG12	1:D:501:ASP:HB2	1.94	0.49
1:D:498:PRO:O	1:D:502:MET:N	2.28	0.49
1:D:711:UNK:O	1:D:715:UNK:N	2.45	0.49
1:D:1065:LEU:HA	1:D:1068:PHE:HB2	1.93	0.49
1:D:1229:ASP:O	1:D:1232:LEU:HB2	2.11	0.49
1:D:1239:GLU:HA	1:D:1242:TYR:CB	2.35	0.49
1:D:1384:ASN:CG	1:D:1404:GLN:HB2	2.37	0.49
1:D:1490:THR:HG23	1:D:1491:THR:N	2.25	0.49
2:E:548:ILE:O	2:E:552:ARG:HG2	2.12	0.49
3:F:48:GLY:O	3:F:50:PRO:HD3	2.12	0.49
3:F:64:TYR:HB3	3:F:68:ARG:N	2.25	0.49
3:F:72:TYR:O	3:F:74:GLN:N	2.45	0.49
1:A:110:LYS:O	1:A:113:ARG:NH2	2.45	0.49
1:A:1011:MET:HE3	1:A:1026:TRP:CE2	2.47	0.49
1:A:1224:LEU:HD21	1:A:1243:THR:O	2.13	0.49
1:A:1242:TYR:HA	1:A:1245:LEU:HB2	1.94	0.49
1:A:1275:GLN:HE22	1:A:1278:GLU:HB3	1.76	0.49
1:A:1353:PRO:CG	1:A:1356:LEU:HD12	2.41	0.49
1:A:1368:TYR:CB	3:C:45:MET:H	2.25	0.49
1:A:1397:ASP:HA	1:A:1400:ASN:HB2	1.93	0.49
1:A:1418:HIS:O	1:A:1421:PHE:HB2	2.13	0.49
1:A:1465:GLU:N	1:A:1491:THR:HG23	2.26	0.49
1:A:1508:LYS:N	1:A:1511:MET:HE3	2.26	0.49
3:C:42:ALA:HB3	3:C:169:PHE:CE1	2.47	0.49
3:C:72:TYR:O	3:C:74:GLN:N	2.45	0.49
1:D:1011:MET:HE3	1:D:1026:TRP:CE2	2.47	0.49
1:D:1161:ALA:HB1	1:D:1168:ALA:HA	1.94	0.49
1:D:1414:VAL:HG22	1:D:1443:HIS:CE1	2.47	0.49
1:D:1450:ARG:HD2	1:D:1463:TRP:CE2	2.47	0.49
1:D:1540:MET:CB	3:F:36:VAL:HG12	2.41	0.49
1:D:1601:ARG:HH11	1:D:1601:ARG:HG2	1.77	0.49
2:E:427:ILE:HG13	2:E:428:LEU:HD12	1.93	0.49
2:E:590:ASP:HB2	2:E:601:HIS:HE1	1.75	0.49
1:A:340:UNK:O	1:A:342:UNK:N	2.46	0.49
1:A:1352:PHE:O	1:A:1357:ARG:CZ	2.59	0.49
1:A:1496:GLU:HG2	1:A:1565:LYS:NZ	2.27	0.49
2:B:126:ILE:HD12	2:B:166:MET:HE3	1.92	0.49
1:D:31:ILE:HD12	2:E:532:PRO:CB	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:424:ASN:ND2	1:D:609:THR:OG1	2.45	0.49
1:D:444:ARG:HG3	1:D:513:HIS:HA	1.93	0.49
1:D:1107:THR:O	1:D:1108:ILE:C	2.55	0.49
1:D:1346:GLY:HA3	1:D:1407:GLN:HB2	1.94	0.49
1:D:1363:TYR:CG	1:D:1374:PHE:HE1	2.31	0.49
1:D:1391:THR:CG2	3:F:28:PHE:HB2	2.29	0.49
1:D:1394:PRO:O	1:D:1399:LYS:HG3	2.13	0.49
1:D:1433:PHE:HD1	1:D:1436:SER:HB2	1.76	0.49
1:D:1474:LYS:O	1:D:1477:GLY:CA	2.61	0.49
1:D:1510:LEU:HA	1:D:1513:ILE:HG12	1.93	0.49
2:E:544:ILE:HG13	2:E:690:LEU:HD13	1.94	0.49
2:E:564:LYS:N	2:E:575:TRP:HE1	2.04	0.49
3:F:10:GLY:C	3:F:97:TRP:CZ2	2.90	0.49
3:F:42:ALA:HB3	3:F:169:PHE:CE1	2.47	0.49
3:F:95:ALA:O	3:F:99:PRO:HG2	2.12	0.49
1:A:115:LEU:O	1:A:116:GLN:C	2.55	0.49
1:A:1070:ILE:HG23	1:A:1073:MET:HE2	1.94	0.49
1:A:1126:LYS:O	1:A:1130:ASN:N	2.32	0.49
1:A:1327:LYS:O	1:A:1331:SER:OG	2.30	0.49
1:A:1356:LEU:O	1:A:1359:LYS:HB2	2.12	0.49
1:A:1394:PRO:O	1:A:1399:LYS:HG3	2.13	0.49
1:A:1421:PHE:CE1	1:A:1434:TYR:CE2	3.00	0.49
1:A:1475:LEU:CD2	1:A:1482:PHE:HE2	2.24	0.49
1:A:1494:PRO:C	1:A:1497:ASN:HB3	2.37	0.49
3:C:93:VAL:HG23	3:C:94:ARG:CZ	2.43	0.49
1:D:154:TYR:C	1:D:157:LYS:HB3	2.37	0.49
1:D:430:LEU:HD21	1:D:509:PHE:CE2	2.48	0.49
1:D:1211:TYR:N	1:D:1211:TYR:CD1	2.79	0.49
1:D:1224:LEU:HD21	1:D:1243:THR:O	2.13	0.49
1:D:1368:TYR:CB	3:F:45:MET:HB2	2.42	0.49
1:D:1444:TYR:HB2	1:D:1467:THR:O	2.07	0.49
1:D:1494:PRO:C	1:D:1497:ASN:HB3	2.37	0.49
2:E:669:LEU:CA	2:E:672:LEU:HB2	2.39	0.49
3:F:16:LYS:HA	3:F:19:LEU:HB2	1.95	0.49
1:A:165:VAL:HB	1:A:167:ASP:CG	2.37	0.49
1:A:448:VAL:HA	1:A:511:PHE:HD1	1.78	0.49
1:A:1244:LEU:N	1:A:1244:LEU:HD12	2.27	0.49
1:A:1363:TYR:CG	1:A:1374:PHE:HE1	2.31	0.49
1:A:1383:PRO:HA	2:B:582:ASN:ND2	2.28	0.49
1:A:1524:ILE:HD13	1:A:1591:VAL:HA	1.94	0.49
3:C:137:ILE:HG22	3:C:138:THR:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1245:LEU:HA	1:D:1248:THR:HG23	1.94	0.49
1:D:1287:TYR:O	1:D:1290:LYS:N	2.46	0.49
1:D:1327:LYS:O	1:D:1331:SER:OG	2.30	0.49
2:E:396:ILE:HG22	2:E:400:LEU:HD23	1.94	0.49
2:E:564:LYS:CE	2:E:605:GLN:HE22	2.25	0.49
2:E:698:LEU:O	2:E:702:GLU:N	2.46	0.49
3:F:97:TRP:O	3:F:101:VAL:HG23	2.12	0.49
3:F:162:GLN:HG2	3:F:165:LEU:HD21	1.94	0.49
1:A:499:ILE:HG23	1:A:503:GLN:HE21	1.77	0.49
1:A:1063:ARG:O	1:A:1066:ILE:HB	2.13	0.49
1:A:1065:LEU:HA	1:A:1068:PHE:HB2	1.93	0.49
1:A:1133:ILE:HD13	1:A:1133:ILE:N	2.28	0.49
1:A:1153:LEU:O	1:A:1154:GLU:C	2.55	0.49
1:A:1227:LEU:HD12	1:A:1230:LEU:HB2	1.95	0.49
1:A:1242:TYR:O	1:A:1245:LEU:N	2.44	0.49
1:A:1255:ASP:HB3	1:A:1272:THR:HA	1.95	0.49
1:A:1271:GLN:O	1:A:1273:HIS:N	2.45	0.49
1:A:1370:ARG:HG2	1:A:1373:ASP:H	1.77	0.49
1:A:1497:ASN:HA	1:A:1500:GLU:OE1	2.12	0.49
3:C:97:TRP:O	3:C:101:VAL:HG23	2.12	0.49
1:D:165:VAL:HB	1:D:167:ASP:CG	2.37	0.49
1:D:435:PHE:CD2	1:D:444:ARG:HB3	2.47	0.49
1:D:772:UNK:O	1:D:776:UNK:N	2.45	0.49
1:D:939:UNK:O	1:D:940:UNK:C	2.60	0.49
1:D:1320:GLN:C	1:D:1324:GLN:HE22	2.20	0.49
1:D:1421:PHE:CE1	1:D:1434:TYR:CE2	3.01	0.49
2:E:8:VAL:HG11	2:E:69:ILE:HG22	1.94	0.49
2:E:61:ILE:HD12	2:E:69:ILE:HD11	1.94	0.49
2:E:552:ARG:HB2	2:E:677:MET:HE1	1.93	0.49
3:F:81:CYS:HA	3:F:113:VAL:HG13	1.93	0.49
3:F:155:LEU:C	3:F:156:GLU:HG3	2.37	0.49
1:A:435:PHE:CD2	1:A:444:ARG:HB3	2.47	0.49
1:A:506:HIS:NE2	1:A:508:ARG:NE	2.61	0.49
1:A:1007:PHE:O	1:A:1010:THR:OG1	2.25	0.49
1:A:1011:MET:SD	1:A:1025:LEU:HD21	2.53	0.49
1:A:1132:ILE:C	1:A:1136:LEU:HG	2.37	0.49
1:A:1204:THR:O	1:A:1207:LEU:HG	2.12	0.49
1:A:1211:TYR:N	1:A:1211:TYR:CD1	2.79	0.49
1:A:1241:ALA:O	1:A:1244:LEU:HB2	2.12	0.49
1:A:1282:GLU:O	1:A:1285:ILE:N	2.46	0.49
1:A:1306:GLU:O	1:A:1310:MET:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1325:GLN:O	1:A:1326:ALA:C	2.55	0.49
1:A:1347:TYR:O	1:A:1358:ASN:CA	2.61	0.49
3:C:23:TYR:HA	3:C:162:GLN:NE2	2.27	0.49
1:D:85:ILE:HG22	1:D:89:GLN:NE2	2.27	0.49
1:D:240:UNK:HA	1:D:299:UNK:CB	2.43	0.49
1:D:448:VAL:HA	1:D:511:PHE:HD1	1.78	0.49
1:D:515:SER:OG	1:D:516:SER:N	2.43	0.49
1:D:1130:ASN:N	1:D:1216:ARG:HH22	2.10	0.49
1:D:1241:ALA:O	1:D:1245:LEU:HD12	2.11	0.49
1:D:1303:GLU:O	1:D:1306:GLU:N	2.46	0.49
1:D:1356:LEU:O	1:D:1359:LYS:HB2	2.12	0.49
1:D:1431:ILE:C	1:D:1435:LYS:HZ3	2.21	0.49
1:D:1494:PRO:HA	1:D:1497:ASN:HB3	1.94	0.49
2:E:244:ILE:HD13	2:E:247:ILE:HD12	1.94	0.49
2:E:551:GLN:OE1	2:E:552:ARG:HD3	2.12	0.49
3:F:93:VAL:HG23	3:F:94:ARG:CZ	2.42	0.49
3:F:148:GLU:OE1	3:F:149:ILE:HG12	2.12	0.49
1:A:15:ALA:HA	1:A:64:ILE:HD13	1.94	0.49
1:A:90:GLU:O	1:A:94:THR:OG1	2.16	0.49
1:A:477:ARG:HH22	1:A:514:ARG:HB2	1.78	0.49
1:A:497:VAL:HG12	1:A:501:ASP:HB2	1.94	0.49
1:A:939:UNK:O	1:A:940:UNK:C	2.60	0.49
1:A:1127:LYS:HA	1:A:1130:ASN:HD22	1.78	0.49
1:A:1201:MET:O	1:A:1202:SER:C	2.53	0.49
1:A:1303:GLU:O	1:A:1306:GLU:N	2.46	0.49
1:A:1310:MET:HE1	1:D:1420:ARG:HB3	1.95	0.49
1:A:1325:GLN:C	1:A:1327:LYS:N	2.69	0.49
1:A:1474:LYS:O	1:A:1477:GLY:CA	2.61	0.49
1:A:1512:MET:HB3	1:A:1527:LEU:HD22	1.94	0.49
1:A:1534:ILE:HG23	3:C:37:PHE:CD2	2.48	0.49
2:B:244:ILE:HD13	2:B:247:ILE:HD12	1.94	0.49
2:B:298:GLN:HE22	2:B:445:PHE:HD1	1.60	0.49
2:B:484:VAL:O	2:B:487:GLN:HB3	2.13	0.49
3:C:148:GLU:OE1	3:C:149:ILE:HG12	2.12	0.49
1:D:5:ARG:NE	1:D:40:THR:HG23	2.28	0.49
1:D:548:ASP:HA	1:D:601:SER:HA	1.93	0.49
1:D:1128:PHE:O	1:D:1129:GLU:C	2.56	0.49
1:D:1227:LEU:HD12	1:D:1230:LEU:HB2	1.95	0.49
1:D:1271:GLN:O	1:D:1273:HIS:N	2.45	0.49
1:D:1282:GLU:O	1:D:1285:ILE:N	2.46	0.49
1:A:49:LEU:HD21	1:A:51:LYS:HD3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:83:ALA:C	1:A:86:PRO:HD2	2.38	0.49
1:A:184:PHE:O	1:A:185:HIS:C	2.54	0.49
1:A:528:ALA:O	1:A:559:MET:HE1	2.13	0.49
1:A:1177:LEU:C	1:A:1179:LYS:H	2.19	0.49
1:A:1287:TYR:O	1:A:1290:LYS:N	2.46	0.49
1:A:1347:TYR:HB2	1:A:1358:ASN:N	2.28	0.49
1:D:4:TRP:HB2	2:E:722:PHE:HA	1.94	0.49
1:D:452:VAL:HG23	1:D:474:ASN:HB2	1.95	0.49
1:D:1070:ILE:HG23	1:D:1073:MET:HE2	1.94	0.49
1:D:1170:SER:O	1:D:1173:ASN:HB2	2.13	0.49
1:D:1244:LEU:N	1:D:1244:LEU:HD12	2.27	0.49
1:D:1363:TYR:CE2	1:D:1369:GLU:OE2	2.66	0.49
1:D:1468:SER:O	1:D:1488:SER:OG	2.26	0.49
1:D:1512:MET:HB3	1:D:1527:LEU:HD22	1.94	0.49
2:E:188:VAL:HG12	2:E:227:GLN:HE22	1.78	0.49
2:E:290:MET:HE3	2:E:294:LEU:HG	1.95	0.49
2:E:458:ILE:HD13	2:E:503:LYS:HG2	1.93	0.49
2:E:599:VAL:O	2:E:601:HIS:N	2.42	0.49
2:E:716:GLU:HB2	2:E:720:TYR:OH	2.13	0.49
3:F:120:ARG:HG2	3:F:121:ASP:CG	2.38	0.49
3:F:171:GLU:HA	3:F:174:ARG:H	1.78	0.49
1:A:1128:PHE:O	1:A:1129:GLU:C	2.56	0.49
1:A:1151:GLN:OE1	1:A:1151:GLN:N	2.34	0.49
1:A:1206:ASN:O	1:A:1207:LEU:C	2.56	0.49
1:A:1343:PHE:CE1	1:A:1371:ARG:HB2	2.48	0.49
1:A:1510:LEU:HA	1:A:1513:ILE:HG12	1.93	0.49
1:A:1577:ILE:O	1:A:1578:PRO:C	2.56	0.49
1:A:1594:ASN:OD1	1:A:1595:LEU:N	2.46	0.49
1:A:1610:LYS:HD3	1:A:1611:MET:H	1.76	0.49
1:D:30:GLN:CG	2:E:539:LYS:HD3	2.42	0.49
1:D:49:LEU:HD21	1:D:51:LYS:HD3	1.95	0.49
1:D:1130:ASN:C	1:D:1216:ARG:HH12	2.14	0.49
1:D:1132:ILE:HG22	1:D:1136:LEU:HD11	1.95	0.49
1:D:1171:VAL:HG12	1:D:1175:VAL:HG13	1.95	0.49
1:D:1351:GLY:HA3	1:D:1384:ASN:ND2	2.27	0.49
1:D:1577:ILE:O	1:D:1578:PRO:C	2.56	0.49
2:E:658:ASP:OD1	2:E:660:HIS:CD2	2.65	0.49
3:F:23:TYR:HA	3:F:162:GLN:NE2	2.27	0.49
3:F:132:LYS:NZ	3:F:134:LEU:HB2	2.28	0.49
1:A:953:UNK:O	1:A:955:UNK:N	2.46	0.48
1:A:979:LEU:HA	1:A:979:LEU:HD23	1.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1171:VAL:HG12	1:A:1175:VAL:HG13	1.95	0.48
1:A:1411:VAL:CG2	1:A:1442:PHE:HB3	2.35	0.48
1:A:1421:PHE:O	1:A:1422:LYS:C	2.56	0.48
1:A:1524:ILE:HG21	1:A:1591:VAL:HA	1.95	0.48
1:A:1526:PRO:O	1:A:1529:MET:HB3	2.13	0.48
1:A:1541:GLY:CA	1:A:1544:ALA:HB3	2.42	0.48
1:A:1563:GLN:O	1:A:1567:THR:HG23	2.12	0.48
1:A:1566:LEU:HD13	1:A:1566:LEU:HA	1.58	0.48
2:B:487:GLN:NE2	2:B:506:LEU:HB3	2.28	0.48
2:B:498:SER:HB3	2:B:501:GLN:OE1	2.13	0.48
3:C:8:VAL:HA	3:C:79:LEU:HB2	1.95	0.48
3:C:47:ASP:HB3	3:C:49:LYS:HD3	1.95	0.48
3:C:69:PRO:HG3	3:C:100:GLU:OE2	2.11	0.48
3:C:155:LEU:C	3:C:156:GLU:HG3	2.37	0.48
1:D:1020:ASN:C	1:D:1022:GLU:H	2.20	0.48
1:D:1068:PHE:HA	1:D:1071:ARG:CG	2.43	0.48
1:D:1165:PRO:HA	1:D:1168:ALA:HB3	1.95	0.48
1:D:1177:LEU:C	1:D:1179:LYS:H	2.19	0.48
1:D:1237:TYR:CE1	1:D:1290:LYS:HD3	2.48	0.48
1:D:1241:ALA:O	1:D:1244:LEU:HB2	2.12	0.48
1:D:1410:THR:OG1	3:F:26:ASN:O	2.21	0.48
1:D:1441:ARG:NH2	1:D:1470:VAL:HG12	2.28	0.48
1:D:1497:ASN:HA	1:D:1500:GLU:OE1	2.12	0.48
1:D:1524:ILE:HG21	1:D:1591:VAL:HA	1.94	0.48
2:E:548:ILE:HG22	2:E:549:LYS:N	2.27	0.48
2:E:551:GLN:CD	2:E:551:GLN:C	2.81	0.48
2:E:587:HIS:HA	2:E:606:ASP:O	2.13	0.48
2:E:685:ASP:O	2:E:687:ASP:N	2.46	0.48
1:A:239:UNK:HA	1:A:261:UNK:C	2.43	0.48
1:A:533:LYS:NZ	1:A:569:PRO:HA	2.28	0.48
1:A:1227:LEU:HA	1:A:1230:LEU:HD23	1.95	0.48
1:A:1237:TYR:CE1	1:A:1290:LYS:HD3	2.48	0.48
1:A:1386:GLU:OE1	1:A:1386:GLU:C	2.56	0.48
1:A:1450:ARG:HD2	1:A:1463:TRP:CE2	2.48	0.48
1:A:1523:PRO:O	1:A:1525:ASN:N	2.46	0.48
1:A:1601:ARG:NH1	1:A:1601:ARG:O	2.46	0.48
1:A:1601:ARG:HH11	1:A:1601:ARG:HG2	1.78	0.48
3:C:16:LYS:HA	3:C:19:LEU:HB2	1.94	0.48
3:C:63:ASP:C	3:C:64:TYR:HD1	2.21	0.48
3:C:132:LYS:NZ	3:C:134:LEU:HB2	2.28	0.48
1:D:21:GLY:N	1:D:28:SER:HA	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:477:ARG:HH22	1:D:514:ARG:HB2	1.78	0.48
1:D:506:HIS:NE2	1:D:508:ARG:NE	2.61	0.48
1:D:533:LYS:NZ	1:D:569:PRO:HA	2.28	0.48
1:D:779:UNK:O	1:D:782:UNK:CB	2.61	0.48
1:D:1011:MET:SD	1:D:1025:LEU:HD21	2.53	0.48
1:D:1017:GLU:C	1:D:1019:THR:N	2.71	0.48
1:D:1299:SER:O	1:D:1300:LEU:C	2.56	0.48
1:D:1386:GLU:OE1	1:D:1386:GLU:C	2.56	0.48
1:D:1389:ASN:C	3:F:28:PHE:HE2	2.21	0.48
1:D:1418:HIS:O	1:D:1421:PHE:HB2	2.13	0.48
1:D:1458:GLU:C	1:D:1460:ALA:N	2.71	0.48
1:D:1594:ASN:OD1	1:D:1595:LEU:N	2.46	0.48
2:E:379:LEU:HD23	2:E:425:CYS:SG	2.53	0.48
2:E:480:VAL:O	2:E:484:VAL:HG23	2.12	0.48
2:E:653:ASN:C	2:E:654:PHE:CD1	2.91	0.48
1:A:21:GLY:H	1:A:28:SER:HA	1.78	0.48
1:A:1065:LEU:O	1:A:1069:SER:OG	2.31	0.48
1:A:1068:PHE:HA	1:A:1071:ARG:CG	2.43	0.48
1:A:1156:ILE:O	1:A:1160:CYS:SG	2.70	0.48
1:A:1165:PRO:HA	1:A:1168:ALA:HB3	1.95	0.48
1:A:1343:PHE:CD1	1:A:1410:THR:OG1	2.66	0.48
1:A:1352:PHE:CD2	1:A:1357:ARG:HG3	2.49	0.48
2:B:173:TRP:CD1	2:B:211:ASN:HD22	2.32	0.48
3:C:5:LYS:HG2	3:C:75:THR:HA	1.94	0.48
1:D:35:VAL:HB	1:D:48:TYR:O	2.13	0.48
1:D:104:GLN:OE1	1:D:104:GLN:C	2.56	0.48
1:D:528:ALA:O	1:D:559:MET:HE1	2.13	0.48
1:D:1063:ARG:O	1:D:1066:ILE:HB	2.13	0.48
1:D:1133:ILE:HD13	1:D:1133:ILE:N	2.28	0.48
1:D:1156:ILE:O	1:D:1160:CYS:SG	2.70	0.48
1:D:1338:PRO:HB3	1:D:1368:TYR:CZ	2.49	0.48
1:D:1343:PHE:CE1	1:D:1371:ARG:HB2	2.48	0.48
1:D:1475:LEU:CD2	1:D:1482:PHE:HE2	2.24	0.48
1:D:1524:ILE:HD13	1:D:1591:VAL:HA	1.94	0.48
1:D:1563:GLN:HA	1:D:1566:LEU:HD23	1.94	0.48
2:E:532:PRO:HA	2:E:535:GLU:OE1	2.13	0.48
2:E:572:ASP:C	2:E:574:PHE:N	2.68	0.48
2:E:575:TRP:HB3	2:E:590:ASP:HA	1.94	0.48
3:F:8:VAL:HA	3:F:79:LEU:HB2	1.95	0.48
3:F:63:ASP:C	3:F:64:TYR:HD1	2.21	0.48
1:A:21:GLY:N	1:A:28:SER:HA	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:984:VAL:HG13	1:A:985:TYR:CE1	2.49	0.48
1:A:1161:ALA:HB1	1:A:1168:ALA:HA	1.94	0.48
1:A:1252:LYS:HB2	1:A:1252:LYS:HZ3	1.78	0.48
1:A:1253:TRP:CD2	1:A:1307:GLN:NE2	2.81	0.48
1:A:1312:ILE:C	1:A:1314:ASP:H	2.22	0.48
1:A:1350:GLN:HA	1:A:1357:ARG:CD	2.40	0.48
1:A:1363:TYR:CE2	1:A:1369:GLU:OE2	2.66	0.48
1:A:1474:LYS:O	1:A:1477:GLY:HA3	2.13	0.48
2:B:458:ILE:HG21	2:B:503:LYS:HG2	1.95	0.48
3:C:49:LYS:HE2	3:C:177:LEU:HD11	1.94	0.48
1:D:83:ALA:C	1:D:86:PRO:HD2	2.38	0.48
1:D:456:ASP:OD1	1:D:458:LYS:HB2	2.14	0.48
1:D:547:HIS:CD2	1:D:571:TYR:CD1	3.02	0.48
1:D:1343:PHE:CD1	1:D:1410:THR:OG1	2.66	0.48
1:D:1347:TYR:O	1:D:1358:ASN:CA	2.61	0.48
1:D:1347:TYR:HB2	1:D:1358:ASN:N	2.28	0.48
1:D:1349:GLY:N	1:D:1398:VAL:O	2.47	0.48
1:D:1463:TRP:CD1	1:D:1494:PRO:HD3	2.47	0.48
1:D:1567:THR:O	1:D:1570:LYS:CB	2.61	0.48
1:D:1587:HIS:CG	1:D:1591:VAL:HG11	2.47	0.48
1:D:1601:ARG:NH1	1:D:1601:ARG:O	2.46	0.48
2:E:306:GLU:HA	2:E:309:MET:HE2	1.94	0.48
3:F:21:ILE:HD13	3:F:35:THR:H	1.78	0.48
3:F:83:SER:H	3:F:89:SER:CB	2.26	0.48
1:A:240:UNK:HA	1:A:299:UNK:CB	2.43	0.48
1:A:250:UNK:HA	1:A:292:UNK:O	2.14	0.48
1:A:430:LEU:HD21	1:A:509:PHE:CE2	2.48	0.48
1:A:1230:LEU:HA	1:A:1230:LEU:HD13	1.47	0.48
1:A:1245:LEU:HA	1:A:1248:THR:HG23	1.94	0.48
1:A:1391:THR:HG21	1:A:1444:TYR:OH	2.14	0.48
1:A:1429:GLN:O	1:A:1432:ASN:ND2	2.42	0.48
1:A:1431:ILE:C	1:A:1435:LYS:HZ3	2.20	0.48
1:A:1532:ASN:O	1:A:1536:ASP:N	2.37	0.48
1:A:1567:THR:O	1:A:1570:LYS:CB	2.61	0.48
1:D:63:PHE:CE2	2:E:713:ILE:HG12	2.42	0.48
1:D:127:TRP:N	1:D:127:TRP:CD1	2.75	0.48
1:D:340:UNK:O	1:D:342:UNK:N	2.46	0.48
1:D:912:UNK:O	1:D:916:UNK:N	2.46	0.48
1:D:1204:THR:O	1:D:1207:LEU:HG	2.12	0.48
1:D:1253:TRP:CD2	1:D:1307:GLN:NE2	2.81	0.48
1:D:1306:GLU:O	1:D:1310:MET:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1312:ILE:C	1:D:1314:ASP:H	2.22	0.48
1:D:1352:PHE:HB2	1:D:1357:ARG:HA	1.96	0.48
1:D:1370:ARG:HG2	1:D:1373:ASP:H	1.77	0.48
1:D:1438:TYR:CA	1:D:1475:LEU:H	2.26	0.48
1:D:1494:PRO:O	1:D:1497:ASN:HB3	2.14	0.48
1:D:1613:VAL:HA	1:D:1616:GLU:HB3	1.96	0.48
2:E:563:ARG:HB3	2:E:655:ILE:CB	2.30	0.48
1:A:35:VAL:HB	1:A:48:TYR:O	2.13	0.48
1:A:101:ILE:O	1:A:105:LEU:HG	2.14	0.48
1:A:465:CYS:O	1:A:493:VAL:HA	2.14	0.48
1:A:1135:LYS:O	1:A:1136:LEU:C	2.57	0.48
1:A:1202:SER:C	1:A:1206:ASN:ND2	2.72	0.48
1:A:1346:GLY:C	1:A:1406:ILE:HA	2.28	0.48
1:A:1429:GLN:C	1:A:1432:ASN:ND2	2.72	0.48
1:A:1464:ILE:O	1:A:1492:ILE:HG23	2.13	0.48
1:A:1529:MET:SD	3:C:39:ASN:HB3	2.53	0.48
2:B:501:GLN:OE1	2:B:501:GLN:N	2.41	0.48
3:C:112:LEU:HB3	3:C:154:TYR:CD1	2.48	0.48
1:D:101:ILE:O	1:D:105:LEU:HG	2.14	0.48
1:D:250:UNK:HA	1:D:292:UNK:O	2.14	0.48
1:D:424:ASN:N	1:D:609:THR:OG1	2.36	0.48
1:D:1153:LEU:O	1:D:1154:GLU:C	2.55	0.48
1:D:1325:GLN:O	1:D:1326:ALA:C	2.56	0.48
1:D:1350:GLN:HG2	1:D:1401:ALA:O	2.14	0.48
1:D:1352:PHE:CD2	1:D:1357:ARG:HG3	2.49	0.48
1:D:1364:ARG:HE	1:D:1475:LEU:HB3	1.78	0.48
1:D:1377:GLN:OE1	1:D:1377:GLN:N	2.47	0.48
1:D:1467:THR:HG23	1:D:1488:SER:C	2.39	0.48
1:D:1480:ARG:CZ	1:D:1481:TRP:CZ3	2.96	0.48
1:D:1523:PRO:O	1:D:1525:ASN:N	2.46	0.48
2:E:306:GLU:HB2	2:E:430:VAL:HG22	1.95	0.48
2:E:565:LEU:HB3	2:E:624:HIS:CG	2.48	0.48
3:F:5:LYS:HG2	3:F:75:THR:HA	1.94	0.48
1:A:450:MET:HB2	1:A:476:TYR:HB2	1.95	0.48
1:A:547:HIS:CD2	1:A:571:TYR:CD1	3.02	0.48
1:A:1011:MET:HB3	1:A:1026:TRP:HE1	1.78	0.48
1:A:1028:ASN:HA	1:A:1031:HIS:HD2	1.79	0.48
1:A:1132:ILE:HG22	1:A:1136:LEU:HD11	1.95	0.48
1:A:1140:VAL:HG12	1:A:1189:ARG:HB2	1.96	0.48
1:A:1193:THR:C	1:A:1200:ARG:HE	2.21	0.48
1:A:1207:LEU:HD12	1:A:1208:LEU:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1250:LEU:C	1:A:1251:LEU:HD12	2.39	0.48
1:A:1345:VAL:O	1:A:1360:VAL:HA	2.14	0.48
1:A:1350:GLN:HG2	1:A:1401:ALA:O	2.14	0.48
1:A:1467:THR:HG23	1:A:1488:SER:C	2.39	0.48
1:A:1494:PRO:O	1:A:1497:ASN:HB3	2.14	0.48
1:A:1600:ASP:O	1:A:1601:ARG:C	2.56	0.48
2:B:645:LEU:HD13	2:B:651:GLN:CG	2.43	0.48
3:C:21:ILE:HD13	3:C:35:THR:H	1.78	0.48
3:C:93:VAL:HG23	3:C:94:ARG:H	1.78	0.48
3:C:102:ARG:NH2	3:C:106:PRO:HA	2.28	0.48
3:C:171:GLU:HA	3:C:174:ARG:H	1.78	0.48
3:C:174:ARG:O	3:C:177:LEU:N	2.47	0.48
1:D:35:VAL:HA	1:D:50:ILE:N	2.29	0.48
1:D:1025:LEU:O	1:D:1028:ASN:N	2.47	0.48
1:D:1172:GLU:O	1:D:1175:VAL:HG22	2.13	0.48
1:D:1207:LEU:HD12	1:D:1208:LEU:N	2.29	0.48
1:D:1356:LEU:O	1:D:1357:ARG:C	2.57	0.48
1:D:1526:PRO:O	1:D:1529:MET:HB3	2.13	0.48
1:D:1596:ARG:O	1:D:1599:HIS:HB3	2.14	0.48
1:D:1600:ASP:O	1:D:1601:ARG:C	2.56	0.48
2:E:526:GLU:O	2:E:530:SER:N	2.47	0.48
2:E:546:GLU:HA	2:E:549:LYS:CD	2.44	0.48
2:E:579:LEU:HD21	2:E:583:HIS:HD2	1.74	0.48
3:F:46:VAL:O	3:F:49:LYS:HB2	2.14	0.48
3:F:102:ARG:NH2	3:F:106:PRO:HA	2.28	0.48
1:A:4:TRP:CZ2	2:B:717:PRO:HG2	2.49	0.48
1:A:12:HIS:CG	1:A:69:VAL:HB	2.49	0.48
1:A:133:SER:O	1:A:135:THR:HG23	2.14	0.48
1:A:154:TYR:C	1:A:157:LYS:HB3	2.37	0.48
1:A:456:ASP:OD1	1:A:458:LYS:HB2	2.14	0.48
1:A:552:LEU:HD23	1:A:595:SER:HA	1.95	0.48
1:A:1083:CYS:O	1:A:1087:GLY:HA3	2.14	0.48
1:A:1172:GLU:O	1:A:1175:VAL:HG22	2.13	0.48
1:A:1420:ARG:HB3	1:D:1310:MET:HE1	1.96	0.48
2:B:392:GLN:H	2:B:392:GLN:CD	2.22	0.48
2:B:560:THR:OG1	2:B:665:TRP:NE1	2.41	0.48
3:C:64:TYR:O	3:C:68:ARG:N	2.44	0.48
3:C:91:GLU:O	3:C:93:VAL:N	2.47	0.48
1:D:16:ILE:HG22	1:D:63:PHE:HA	1.96	0.48
1:D:17:TYR:CE2	2:E:710:PRO:HB3	2.49	0.48
1:D:30:GLN:HG2	2:E:539:LYS:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:105:LEU:HB2	1:D:114:PHE:CD1	2.48	0.48
1:D:465:CYS:O	1:D:493:VAL:HA	2.13	0.48
1:D:944:UNK:O	1:D:945:UNK:C	2.61	0.48
1:D:1153:LEU:HA	1:D:1156:ILE:CD1	2.44	0.48
1:D:1181:LEU:HA	1:D:1210:PHE:CZ	2.49	0.48
1:D:1193:THR:C	1:D:1200:ARG:HE	2.21	0.48
1:D:1244:LEU:O	1:D:1248:THR:HG23	2.14	0.48
1:D:1255:ASP:HB3	1:D:1272:THR:HA	1.95	0.48
1:D:1428:ASP:CB	1:D:1431:ILE:HG22	2.41	0.48
1:D:1613:VAL:HA	1:D:1616:GLU:HB2	1.96	0.48
2:E:207:SER:O	2:E:211:ASN:ND2	2.46	0.48
2:E:259:ARG:HA	2:E:262:MET:HG2	1.96	0.48
2:E:523:MET:O	2:E:526:GLU:N	2.46	0.48
2:E:588:TYR:O	2:E:606:ASP:HA	2.13	0.48
3:F:49:LYS:HE2	3:F:177:LEU:HD11	1.94	0.48
1:A:13:GLY:HA2	1:A:66:ILE:HD13	1.95	0.48
1:A:35:VAL:HA	1:A:50:ILE:N	2.28	0.48
1:A:87:LEU:HD12	1:A:87:LEU:HA	1.63	0.48
1:A:98:TRP:HB3	1:A:121:MET:CE	2.35	0.48
1:A:101:ILE:O	1:A:104:GLN:HB3	2.14	0.48
1:A:105:LEU:HB2	1:A:114:PHE:CD1	2.48	0.48
1:A:571:TYR:H	1:A:574:HIS:HB2	1.79	0.48
1:A:779:UNK:O	1:A:782:UNK:CB	2.61	0.48
1:A:912:UNK:O	1:A:916:UNK:N	2.46	0.48
1:A:1153:LEU:HA	1:A:1156:ILE:CD1	2.44	0.48
1:A:1170:SER:O	1:A:1173:ASN:HB2	2.13	0.48
1:A:1277:LYS:O	1:A:1278:GLU:C	2.56	0.48
1:A:1356:LEU:O	1:A:1357:ARG:C	2.57	0.48
1:A:1458:GLU:C	1:A:1460:ALA:N	2.71	0.48
1:A:1569:LEU:O	1:A:1572:LEU:HB2	2.14	0.48
2:B:541:GLN:HB3	2:B:542:PRO:HD3	1.96	0.48
2:B:546:GLU:HA	2:B:549:LYS:HB2	1.96	0.48
1:D:450:MET:HB2	1:D:476:TYR:HB2	1.95	0.48
1:D:953:UNK:O	1:D:955:UNK:N	2.46	0.48
1:D:990:MET:O	1:D:994:MET:HB3	2.13	0.48
1:D:1065:LEU:O	1:D:1069:SER:OG	2.31	0.48
1:D:1083:CYS:O	1:D:1087:GLY:HA3	2.14	0.48
1:D:1156:ILE:HA	1:D:1159:GLU:OE2	2.14	0.48
1:D:1188:TYR:CZ	1:D:1192:MET:HB2	2.49	0.48
1:D:1248:THR:O	1:D:1249:TRP:C	2.57	0.48
1:D:1281:TYR:HA	1:D:1284:ILE:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1421:PHE:O	1:D:1422:LYS:C	2.56	0.48
1:D:1446:ARG:HG3	1:D:1447:PRO:HD2	1.95	0.48
1:D:1463:TRP:NE1	1:D:1494:PRO:HD3	2.29	0.48
2:E:539:LYS:C	2:E:540:ILE:HG13	2.37	0.48
2:E:609:PRO:O	2:E:612:ASP:HB3	2.14	0.48
3:F:19:LEU:HA	3:F:159:ALA:CB	2.37	0.48
3:F:123:LYS:O	3:F:127:GLU:CB	2.51	0.48
1:A:104:GLN:OE1	1:A:104:GLN:C	2.56	0.48
1:A:1025:LEU:O	1:A:1028:ASN:N	2.47	0.48
1:A:1364:ARG:HE	1:A:1475:LEU:HB3	1.78	0.48
1:A:1377:GLN:N	1:A:1377:GLN:OE1	2.47	0.48
1:A:1463:TRP:NE1	1:A:1494:PRO:HD3	2.29	0.48
1:A:1575:TRP:CE3	1:A:1620:ARG:HB3	2.42	0.48
1:A:1596:ARG:O	1:A:1599:HIS:HB3	2.14	0.48
2:B:644:ILE:HG22	2:B:652:LEU:HB2	1.96	0.48
3:C:23:TYR:HE2	3:C:42:ALA:HB1	1.79	0.48
1:D:13:GLY:HA2	1:D:66:ILE:HD13	1.95	0.48
1:D:87:LEU:HD12	1:D:87:LEU:HA	1.63	0.48
1:D:133:SER:O	1:D:135:THR:HG23	2.14	0.48
1:D:430:LEU:HD21	1:D:509:PHE:HE2	1.79	0.48
1:D:529:MET:HB3	1:D:552:LEU:CB	2.40	0.48
1:D:1280:LEU:O	1:D:1281:TYR:C	2.56	0.48
1:D:1287:TYR:HD2	1:D:1290:LYS:NZ	2.12	0.48
1:D:1464:ILE:O	1:D:1492:ILE:HG23	2.13	0.48
2:E:572:ASP:OD1	2:E:591:LEU:C	2.57	0.48
2:E:601:HIS:O	2:E:603:SER:N	2.46	0.48
3:F:23:TYR:HE2	3:F:42:ALA:HB1	1.79	0.48
3:F:64:TYR:O	3:F:68:ARG:N	2.44	0.48
1:A:43:ASP:HB2	2:B:714:PRO:HG3	1.96	0.47
1:A:435:PHE:HB2	1:A:439:ASN:ND2	2.28	0.47
1:A:452:VAL:HG23	1:A:474:ASN:HB2	1.95	0.47
1:A:794:UNK:O	1:A:797:UNK:N	2.47	0.47
1:A:1017:GLU:C	1:A:1019:THR:N	2.71	0.47
1:A:1299:SER:O	1:A:1300:LEU:C	2.56	0.47
1:A:1333:MET:CE	1:A:1429:GLN:HB2	2.44	0.47
1:A:1352:PHE:HB2	1:A:1357:ARG:HA	1.95	0.47
1:A:1424:LYS:HD2	1:A:1425:PRO:CD	2.44	0.47
1:A:1433:PHE:O	1:A:1437:ASN:CG	2.57	0.47
1:A:1441:ARG:NH2	1:A:1470:VAL:HG12	2.28	0.47
1:A:1444:TYR:HE1	3:C:27:ALA:HB1	1.77	0.47
1:A:1446:ARG:HG3	1:A:1447:PRO:HD2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1540:MET:HB3	3:C:36:VAL:HG12	1.96	0.47
1:A:1613:VAL:HA	1:A:1616:GLU:HB3	1.96	0.47
2:B:381:LEU:HD12	2:B:384:MET:SD	2.54	0.47
3:C:46:VAL:O	3:C:49:LYS:HB2	2.14	0.47
3:C:53:LEU:CD1	3:C:169:PHE:HE1	2.27	0.47
1:D:12:HIS:CG	1:D:69:VAL:HB	2.49	0.47
1:D:21:GLY:H	1:D:28:SER:HA	1.78	0.47
1:D:239:UNK:HA	1:D:261:UNK:C	2.43	0.47
1:D:571:TYR:H	1:D:574:HIS:HB2	1.79	0.47
1:D:810:UNK:O	1:D:814:UNK:N	2.47	0.47
1:D:1202:SER:C	1:D:1206:ASN:ND2	2.72	0.47
1:D:1211:TYR:HB2	1:D:1220:TYR:CD1	2.43	0.47
1:D:1333:MET:HE3	1:D:1333:MET:HB3	1.64	0.47
1:D:1525:ASN:C	1:D:1527:LEU:N	2.72	0.47
1:D:1550:PHE:CD1	1:D:1555:TYR:CG	2.95	0.47
2:E:664:ILE:CG2	2:E:665:TRP:CE2	2.96	0.47
2:E:683:ARG:CG	2:E:686:LEU:HD23	2.42	0.47
3:F:47:ASP:HB3	3:F:49:LYS:HD3	1.95	0.47
3:F:161:THR:CG2	3:F:163:ARG:HH21	2.25	0.47
3:F:162:GLN:HG2	3:F:165:LEU:CD2	2.44	0.47
1:A:944:UNK:O	1:A:945:UNK:C	2.61	0.47
1:A:990:MET:O	1:A:994:MET:HB3	2.13	0.47
1:A:1089:VAL:O	1:A:1092:ILE:HB	2.14	0.47
1:A:1188:TYR:CZ	1:A:1192:MET:HB2	2.49	0.47
1:A:1495:LEU:HD21	1:A:1566:LEU:HD22	1.95	0.47
2:B:232:LEU:HG	2:B:240:GLN:OE1	2.14	0.47
3:C:162:GLN:HG2	3:C:165:LEU:CD2	2.44	0.47
1:D:7:ALA:HB1	1:D:10:GLU:HB2	1.96	0.47
1:D:36:ARG:N	1:D:50:ILE:HG13	2.29	0.47
1:D:101:ILE:O	1:D:104:GLN:HB3	2.14	0.47
1:D:537:GLU:OE1	1:D:537:GLU:HA	2.14	0.47
1:D:552:LEU:HD23	1:D:595:SER:HA	1.96	0.47
1:D:794:UNK:O	1:D:797:UNK:N	2.47	0.47
1:D:1250:LEU:C	1:D:1251:LEU:HD12	2.39	0.47
1:D:1345:VAL:O	1:D:1360:VAL:HA	2.14	0.47
1:D:1610:LYS:HD3	1:D:1611:MET:H	1.76	0.47
2:E:545:LEU:CD2	2:E:686:LEU:HD22	2.43	0.47
3:F:72:TYR:CD2	3:F:104:HIS:CD2	3.02	0.47
1:A:27:LEU:HD22	1:A:47:GLY:O	2.14	0.47
1:A:36:ARG:N	1:A:50:ILE:HG13	2.30	0.47
1:A:432:GLN:HG3	1:A:600:PHE:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:531:TYR:C	1:A:565:TYR:HE2	2.22	0.47
1:A:1130:ASN:HA	1:A:1216:ARG:NH2	2.29	0.47
1:A:1292:LYS:O	1:A:1294:TRP:CD2	2.67	0.47
1:A:1349:GLY:N	1:A:1398:VAL:O	2.47	0.47
1:A:1480:ARG:CZ	1:A:1481:TRP:CZ3	2.96	0.47
1:D:40:THR:CB	1:D:45:TYR:HA	2.45	0.47
1:D:154:TYR:O	1:D:158:ILE:HG12	2.15	0.47
1:D:222:UNK:N	1:D:387:UNK:HA	2.29	0.47
1:D:238:UNK:N	1:D:262:UNK:HA	2.30	0.47
1:D:453:CYS:HB3	1:D:457:GLY:HA2	1.96	0.47
1:D:1017:GLU:C	1:D:1019:THR:H	2.21	0.47
1:D:1130:ASN:HA	1:D:1216:ARG:NH2	2.29	0.47
1:D:1135:LYS:O	1:D:1136:LEU:C	2.57	0.47
1:D:1147:GLU:C	1:D:1149:TYR:H	2.22	0.47
1:D:1424:LYS:HD2	1:D:1425:PRO:CD	2.45	0.47
2:E:14:TRP:HB2	2:E:41:TRP:CZ3	2.50	0.47
2:E:536:LEU:HA	2:E:536:LEU:HD12	1.47	0.47
3:F:91:GLU:O	3:F:93:VAL:N	2.46	0.47
3:F:155:LEU:HA	3:F:155:LEU:HD23	1.60	0.47
1:A:111:LYS:H	1:A:111:LYS:HG3	1.31	0.47
1:A:154:TYR:O	1:A:158:ILE:HG12	2.15	0.47
1:A:1017:GLU:O	1:A:1018:HIS:CG	2.68	0.47
1:A:1199:ASN:O	1:A:1200:ARG:C	2.58	0.47
1:A:1248:THR:O	1:A:1249:TRP:C	2.57	0.47
1:A:1315:TYR:N	1:A:1316:GLU:OE1	2.38	0.47
1:A:1338:PRO:HB3	1:A:1368:TYR:CZ	2.49	0.47
3:C:21:ILE:HB	3:C:32:TYR:CE2	2.50	0.47
3:C:117:LEU:HD22	3:C:156:GLU:OE1	2.15	0.47
3:C:120:ARG:HG2	3:C:121:ASP:CG	2.38	0.47
1:D:40:THR:OG1	1:D:45:TYR:HA	2.15	0.47
1:D:432:GLN:HG3	1:D:600:PHE:HA	1.95	0.47
1:D:1017:GLU:O	1:D:1018:HIS:CG	2.68	0.47
1:D:1176:ASN:HA	1:D:1179:LYS:HE2	1.97	0.47
1:D:1458:GLU:O	1:D:1460:ALA:N	2.48	0.47
1:D:1468:SER:N	1:D:1488:SER:OG	2.48	0.47
1:D:1475:LEU:CA	1:D:1476:PRO:C	2.87	0.47
1:A:33:ASP:N	1:A:33:ASP:OD1	2.47	0.47
1:A:94:THR:O	1:A:98:TRP:HD1	1.98	0.47
1:A:124:LEU:O	1:A:127:TRP:N	2.46	0.47
1:A:222:UNK:N	1:A:387:UNK:HA	2.29	0.47
1:A:1181:LEU:HA	1:A:1210:PHE:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1347:TYR:O	1:A:1358:ASN:HA	2.15	0.47
1:A:1405:TYR:CD1	1:A:1405:TYR:N	2.80	0.47
1:A:1446:ARG:O	1:A:1464:ILE:CA	2.58	0.47
1:A:1463:TRP:N	1:A:1494:PRO:HG3	2.30	0.47
1:A:1474:LYS:HG2	1:A:1474:LYS:HZ2	1.26	0.47
1:A:1599:HIS:HD1	1:A:1603:GLU:CD	2.13	0.47
1:A:1602:MET:O	1:A:1603:GLU:C	2.58	0.47
1:A:1613:VAL:HA	1:A:1616:GLU:HB2	1.96	0.47
2:B:232:LEU:HD22	2:B:274:ILE:HG22	1.96	0.47
2:B:298:GLN:OE1	2:B:446:PHE:HE1	1.98	0.47
3:C:80:ILE:HB	3:C:111:ILE:O	2.14	0.47
1:D:27:LEU:HD22	1:D:47:GLY:O	2.14	0.47
1:D:96:TRP:NE1	2:E:696:LEU:HB3	2.26	0.47
1:D:452:VAL:N	1:D:474:ASN:HD22	2.12	0.47
1:D:519:SER:C	1:D:520:LYS:HG3	2.38	0.47
1:D:985:TYR:CD2	1:D:992:MET:HG2	2.50	0.47
1:D:1028:ASN:HA	1:D:1031:HIS:HD2	1.79	0.47
1:D:1411:VAL:CG2	1:D:1442:PHE:HB3	2.34	0.47
1:D:1415:LEU:CD2	1:D:1435:LYS:HB3	2.39	0.47
1:D:1433:PHE:O	1:D:1433:PHE:CD1	2.68	0.47
1:D:1599:HIS:HD1	1:D:1603:GLU:CD	2.13	0.47
2:E:394:ALA:O	2:E:398:ILE:HG13	2.15	0.47
2:E:517:ILE:O	2:E:520:SER:OG	2.28	0.47
2:E:532:PRO:HG2	2:E:706:ILE:HG23	1.97	0.47
3:F:23:TYR:CA	3:F:162:GLN:HE21	2.27	0.47
3:F:69:PRO:HA	3:F:72:TYR:CD2	2.47	0.47
3:F:117:LEU:HD22	3:F:156:GLU:OE1	2.15	0.47
3:F:174:ARG:O	3:F:177:LEU:N	2.47	0.47
1:A:46:ARG:HA	1:A:58:ILE:HA	1.96	0.47
1:A:1156:ILE:HA	1:A:1159:GLU:OE2	2.13	0.47
1:A:1244:LEU:O	1:A:1248:THR:HG23	2.14	0.47
1:A:1441:ARG:HE	1:A:1469:PHE:CA	2.28	0.47
1:A:1537:PRO:HA	3:C:37:PHE:HE1	1.78	0.47
3:C:77:VAL:HG12	3:C:78:PHE:N	2.29	0.47
1:D:46:ARG:HA	1:D:58:ILE:HA	1.96	0.47
1:D:435:PHE:N	1:D:435:PHE:CD1	2.82	0.47
1:D:435:PHE:HB2	1:D:439:ASN:ND2	2.28	0.47
1:D:990:MET:O	1:D:994:MET:CB	2.63	0.47
1:D:990:MET:H	1:D:990:MET:HG2	1.23	0.47
1:D:992:MET:HE3	1:D:992:MET:HB2	1.77	0.47
1:D:1011:MET:HB3	1:D:1026:TRP:HE1	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1379:MET:HE1	1:D:1385:ALA:O	2.15	0.47
1:D:1389:ASN:OD1	1:D:1390:THR:HG22	2.15	0.47
1:D:1405:TYR:CD1	1:D:1405:TYR:N	2.80	0.47
1:D:1441:ARG:HE	1:D:1469:PHE:CA	2.28	0.47
1:D:1474:LYS:O	1:D:1477:GLY:HA3	2.13	0.47
1:D:1474:LYS:HZ1	1:D:1476:PRO:N	2.13	0.47
2:E:232:LEU:HD12	2:E:244:ILE:HD11	1.95	0.47
2:E:308:ARG:O	2:E:379:LEU:N	2.44	0.47
2:E:555:ARG:HA	2:E:558:GLU:OE1	2.15	0.47
2:E:574:PHE:HB3	2:E:591:LEU:HB2	1.97	0.47
2:E:608:LEU:HD22	2:E:644:ILE:HD13	1.97	0.47
1:A:7:ALA:HB1	1:A:10:GLU:HB2	1.96	0.47
1:A:10:GLU:OE1	1:A:45:TYR:HE1	1.98	0.47
1:A:29:LEU:HD11	1:A:59:PHE:CD2	2.50	0.47
1:A:97:GLU:OE2	1:A:1051:LYS:HG2	2.14	0.47
1:A:452:VAL:N	1:A:474:ASN:HD22	2.13	0.47
1:A:453:CYS:HB3	1:A:457:GLY:HA2	1.96	0.47
1:A:519:SER:C	1:A:520:LYS:HG3	2.38	0.47
1:A:537:GLU:HA	1:A:537:GLU:OE1	2.14	0.47
1:A:985:TYR:CD2	1:A:992:MET:HG2	2.50	0.47
1:A:1147:GLU:C	1:A:1149:TYR:H	2.22	0.47
1:A:1165:PRO:O	1:A:1168:ALA:HB3	2.15	0.47
1:A:1169:LYS:HE3	1:A:1173:ASN:ND2	2.29	0.47
1:A:1191:VAL:HG21	1:A:1203:CYS:SG	2.55	0.47
1:A:1219:MET:O	1:A:1220:TYR:C	2.58	0.47
1:A:1274:ARG:HH11	1:A:1275:GLN:N	2.13	0.47
1:A:1308:TYR:HD1	1:A:1314:ASP:O	1.98	0.47
1:A:1346:GLY:N	1:A:1406:ILE:HG23	2.26	0.47
1:A:1352:PHE:HD2	1:A:1357:ARG:HG3	1.79	0.47
1:A:1468:SER:N	1:A:1488:SER:OG	2.47	0.47
1:A:1524:ILE:HD13	1:A:1591:VAL:HB	1.96	0.47
2:B:225:ILE:HA	2:B:228:LEU:HG	1.97	0.47
2:B:392:GLN:O	2:B:396:ILE:HG12	2.15	0.47
2:B:571:GLN:O	2:B:573:LYS:HD2	2.14	0.47
2:B:584:LYS:HA	2:B:610:VAL:HB	1.96	0.47
3:C:72:TYR:CZ	3:C:100:GLU:HG2	2.50	0.47
3:C:100:GLU:OE2	3:C:103:HIS:CD2	2.68	0.47
3:C:137:ILE:HD12	3:C:141:GLN:OE1	2.15	0.47
3:C:161:THR:CG2	3:C:163:ARG:HH21	2.25	0.47
1:D:20:GLN:HE21	2:E:539:LYS:HE2	1.79	0.47
1:D:30:GLN:NE2	2:E:540:ILE:HD11	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:33:ASP:OD1	1:D:33:ASP:N	2.47	0.47
1:D:97:GLU:OE2	1:D:1051:LYS:HG2	2.14	0.47
1:D:98:TRP:HB3	1:D:121:MET:CE	2.35	0.47
1:D:110:LYS:O	1:D:113:ARG:NH2	2.45	0.47
1:D:446:VAL:HG11	1:D:487:PRO:CG	2.44	0.47
1:D:511:PHE:HD2	1:D:528:ALA:HB3	1.80	0.47
1:D:547:HIS:HD2	1:D:571:TYR:CD1	2.32	0.47
1:D:1013:GLN:H	1:D:1013:GLN:HG3	1.43	0.47
1:D:1089:VAL:O	1:D:1092:ILE:HB	2.14	0.47
1:D:1140:VAL:HG12	1:D:1189:ARG:HB2	1.96	0.47
1:D:1217:GLU:O	1:D:1219:MET:N	2.48	0.47
1:D:1274:ARG:HH11	1:D:1274:ARG:C	2.23	0.47
1:D:1292:LYS:O	1:D:1294:TRP:CD2	2.67	0.47
1:D:1346:GLY:HA2	1:D:1360:VAL:HG22	1.96	0.47
1:D:1347:TYR:O	1:D:1358:ASN:HA	2.15	0.47
1:D:1352:PHE:HD2	1:D:1357:ARG:HG3	1.79	0.47
1:D:1391:THR:HG21	1:D:1444:TYR:OH	2.14	0.47
1:D:1410:THR:HG21	3:F:26:ASN:HD22	1.78	0.47
1:D:1421:PHE:HA	1:D:1426:VAL:CG2	2.45	0.47
1:D:1445:SER:N	1:D:1466:ARG:NH1	2.63	0.47
1:D:1479:LEU:O	1:D:1481:TRP:N	2.48	0.47
1:D:1495:LEU:HD21	1:D:1566:LEU:HD22	1.95	0.47
2:E:308:ARG:CZ	2:E:378:MET:HB3	2.45	0.47
2:E:328:ARG:HB2	2:E:359:LEU:HD11	1.97	0.47
2:E:371:PHE:CE1	2:E:418:ILE:HD11	2.50	0.47
2:E:466:THR:HG22	2:E:470:MET:HE3	1.97	0.47
2:E:615:ALA:O	2:E:645:LEU:CB	2.62	0.47
2:E:661:GLU:O	2:E:665:TRP:HD1	1.94	0.47
2:E:695:LYS:CA	2:E:698:LEU:HG	2.40	0.47
3:F:32:TYR:N	3:F:32:TYR:CD1	2.82	0.47
3:F:53:LEU:CD1	3:F:169:PHE:HE1	2.27	0.47
3:F:77:VAL:HG12	3:F:78:PHE:N	2.29	0.47
3:F:80:ILE:HB	3:F:111:ILE:O	2.14	0.47
3:F:93:VAL:HG23	3:F:94:ARG:H	1.78	0.47
3:F:94:ARG:CZ	3:F:145:MET:SD	3.02	0.47
3:F:100:GLU:OE2	3:F:103:HIS:CD2	2.68	0.47
3:F:132:LYS:HZ2	3:F:134:LEU:HB2	1.79	0.47
1:A:1147:GLU:O	1:A:1149:TYR:N	2.48	0.47
1:A:1280:LEU:O	1:A:1283:THR:N	2.48	0.47
1:A:1289:ASP:OD1	1:A:1289:ASP:C	2.56	0.47
1:A:1363:TYR:HA	1:A:1481:TRP:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1379:MET:O	2:B:582:ASN:ND2	2.47	0.47
1:A:1431:ILE:HG13	1:A:1435:LYS:HZ2	1.80	0.47
1:A:1433:PHE:O	1:A:1433:PHE:CD1	2.68	0.47
1:A:1513:ILE:CG1	1:A:1514:ASN:N	2.78	0.47
1:A:1597:PRO:O	1:A:1598:PHE:C	2.58	0.47
2:B:195:ILE:O	2:B:199:GLN:NE2	2.48	0.47
2:B:559:GLY:HA3	2:B:577:CYS:C	2.40	0.47
3:C:72:TYR:CD2	3:C:104:HIS:CD2	3.02	0.47
1:D:44:TRP:HE1	2:E:715:LYS:C	2.23	0.47
1:D:96:TRP:NE1	2:E:696:LEU:HD13	2.29	0.47
1:D:128:ARG:HD3	2:E:699:LEU:HD21	1.97	0.47
1:D:459:THR:O	1:D:459:THR:HG22	2.15	0.47
1:D:1130:ASN:CA	1:D:1216:ARG:HH22	2.28	0.47
1:D:1389:ASN:C	3:F:28:PHE:CE2	2.93	0.47
1:D:1500:GLU:C	1:D:1503:SER:HG	2.19	0.47
1:D:1564:ASP:OD1	1:D:1568:HIS:NE2	2.48	0.47
2:E:308:ARG:HB2	2:E:379:LEU:HD13	1.96	0.47
2:E:374:THR:HG22	2:E:377:GLY:HA3	1.97	0.47
3:F:93:VAL:HG23	3:F:94:ARG:NH2	2.30	0.47
1:A:435:PHE:N	1:A:435:PHE:CD1	2.82	0.47
1:A:810:UNK:O	1:A:814:UNK:N	2.47	0.47
1:A:1320:GLN:O	1:A:1321:ASN:C	2.54	0.47
1:A:1346:GLY:HA2	1:A:1360:VAL:HG22	1.96	0.47
1:A:1348:TYR:O	1:A:1405:TYR:CB	2.62	0.47
1:A:1475:LEU:CA	1:A:1476:PRO:C	2.87	0.47
2:B:578:ARG:NH1	2:B:579:LEU:O	2.48	0.47
3:C:32:TYR:N	3:C:32:TYR:CD1	2.82	0.47
3:C:93:VAL:HG23	3:C:94:ARG:NH2	2.30	0.47
1:D:30:GLN:HE21	2:E:536:LEU:CD1	2.26	0.47
1:D:531:TYR:C	1:D:565:TYR:HE2	2.22	0.47
1:D:798:UNK:C	1:D:801:UNK:N	2.78	0.47
1:D:975:MET:O	1:D:979:LEU:HG	2.15	0.47
1:D:1127:LYS:HA	1:D:1130:ASN:HD22	1.78	0.47
1:D:1128:PHE:CD2	1:D:1174:PHE:CE2	3.03	0.47
1:D:1167:ILE:O	1:D:1168:ALA:C	2.55	0.47
1:D:1169:LYS:HE3	1:D:1173:ASN:ND2	2.29	0.47
1:D:1301:CYS:HB3	1:D:1325:GLN:OE1	2.15	0.47
1:D:1348:TYR:O	1:D:1405:TYR:CB	2.62	0.47
1:D:1433:PHE:O	1:D:1437:ASN:CG	2.57	0.47
2:E:313:MET:HE3	2:E:371:PHE:CG	2.50	0.47
2:E:699:LEU:HA	2:E:702:GLU:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:21:ILE:HB	3:F:32:TYR:CE2	2.50	0.47
3:F:98:TYR:CD1	3:F:149:ILE:HB	2.50	0.47
1:A:669:ILE:HA	1:A:672:LEU:CB	2.45	0.47
1:A:980:ILE:HG21	1:A:1036:PHE:HA	1.97	0.47
1:A:990:MET:O	1:A:994:MET:CB	2.63	0.47
1:A:1128:PHE:CD2	1:A:1174:PHE:CE2	3.03	0.47
1:A:1274:ARG:HH11	1:A:1274:ARG:C	2.23	0.47
1:A:1280:LEU:O	1:A:1281:TYR:C	2.56	0.47
1:A:1318:LEU:HD12	1:A:1318:LEU:HA	1.50	0.47
1:A:1356:LEU:HD23	1:A:1361:PHE:CE2	2.49	0.47
1:A:1389:ASN:OD1	1:A:1390:THR:HG22	2.15	0.47
1:A:1445:SER:N	1:A:1466:ARG:NH1	2.63	0.47
1:A:1501:THR:C	1:A:1502:MET:HE2	2.41	0.47
1:A:1598:PHE:O	1:A:1602:MET:HE2	2.15	0.47
2:B:126:ILE:HD13	2:B:165:LEU:HD13	1.97	0.47
2:B:139:LEU:HB3	2:B:155:LEU:HD22	1.97	0.47
3:C:98:TYR:O	3:C:102:ARG:HG2	2.15	0.47
3:C:138:THR:O	3:C:141:GLN:HB2	2.16	0.47
1:D:94:THR:O	1:D:98:TRP:HD1	1.98	0.47
1:D:669:ILE:HA	1:D:672:LEU:CB	2.45	0.47
1:D:1165:PRO:O	1:D:1168:ALA:HB3	2.15	0.47
1:D:1224:LEU:O	1:D:1227:LEU:HB3	2.15	0.47
1:D:1227:LEU:HA	1:D:1230:LEU:HD23	1.95	0.47
1:D:1236:ASN:C	1:D:1238:THR:H	2.23	0.47
1:D:1431:ILE:CG1	1:D:1435:LYS:HZ2	2.28	0.47
1:D:1462:MET:O	1:D:1494:PRO:HA	2.15	0.47
1:D:1541:GLY:CA	1:D:1544:ALA:HB3	2.42	0.47
1:D:1546:TYR:CD1	1:D:1550:PHE:HE2	2.33	0.47
2:E:196:SER:O	2:E:200:ARG:HG2	2.15	0.47
2:E:563:ARG:HH21	2:E:637:VAL:HG11	1.80	0.47
3:F:98:TYR:O	3:F:102:ARG:HG2	2.15	0.47
3:F:112:LEU:HB3	3:F:154:TYR:CD1	2.48	0.47
1:A:4:TRP:HB2	2:B:722:PHE:HA	1.96	0.46
1:A:111:LYS:HZ3	2:B:555:ARG:HH22	1.63	0.46
1:A:1231:HIS:HE2	1:A:1479:LEU:CD1	2.27	0.46
1:A:1348:TYR:OH	1:A:1360:VAL:HG23	2.14	0.46
1:A:1364:ARG:CZ	1:A:1476:PRO:N	2.78	0.46
1:A:1447:PRO:CD	3:C:31:GLU:HB2	2.44	0.46
1:A:1458:GLU:O	1:A:1460:ALA:N	2.48	0.46
1:A:1525:ASN:O	1:A:1528:SER:OG	2.22	0.46
1:A:1546:TYR:CD1	1:A:1550:PHE:HE2	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1577:ILE:O	1:A:1580:LEU:HB2	2.15	0.46
2:B:274:ILE:HD12	2:B:278:HIS:HE1	1.80	0.46
3:C:77:VAL:HG13	3:C:109:PRO:O	2.16	0.46
3:C:94:ARG:HH11	3:C:94:ARG:CG	2.15	0.46
3:C:171:GLU:C	3:C:173:ILE:N	2.71	0.46
1:D:83:ALA:N	1:D:84:GLU:OE2	2.48	0.46
1:D:350:UNK:HA	1:D:481:TYR:CE1	2.50	0.46
1:D:1219:MET:O	1:D:1220:TYR:C	2.58	0.46
1:D:1315:TYR:N	1:D:1316:GLU:OE1	2.38	0.46
1:D:1348:TYR:OH	1:D:1360:VAL:HG23	2.14	0.46
1:D:1353:PRO:HB2	1:D:1355:PHE:CZ	2.50	0.46
1:D:1524:ILE:HD13	1:D:1591:VAL:HB	1.96	0.46
1:D:1569:LEU:O	1:D:1572:LEU:HB2	2.14	0.46
2:E:564:LYS:HE2	2:E:605:GLN:HE22	1.79	0.46
2:E:624:HIS:O	2:E:624:HIS:CG	2.64	0.46
1:A:16:ILE:HG22	1:A:63:PHE:HA	1.96	0.46
1:A:452:VAL:HG21	1:A:463:ALA:HB3	1.97	0.46
1:A:477:ARG:HB2	1:A:477:ARG:NH1	2.30	0.46
1:A:1201:MET:CE	1:A:1231:HIS:CD2	2.99	0.46
1:A:1241:ALA:O	1:A:1242:TYR:C	2.59	0.46
1:A:1287:TYR:HD2	1:A:1290:LYS:NZ	2.12	0.46
1:A:1293:MET:CE	1:A:1364:ARG:HH12	2.22	0.46
1:A:1431:ILE:CG1	1:A:1435:LYS:HZ2	2.28	0.46
1:A:1480:ARG:NE	1:A:1481:TRP:HZ3	2.12	0.46
1:A:1531:LEU:HD23	1:A:1602:MET:HE3	1.97	0.46
2:B:658:ASP:OD2	2:B:658:ASP:N	2.48	0.46
3:C:44:VAL:O	3:C:46:VAL:HG12	2.16	0.46
3:C:87:PRO:HG3	3:C:135:THR:O	2.16	0.46
3:C:98:TYR:CD1	3:C:149:ILE:HB	2.50	0.46
3:C:129:LEU:HD13	3:C:136:PRO:CB	2.45	0.46
1:D:10:GLU:OE1	1:D:45:TYR:HE1	1.98	0.46
1:D:20:GLN:HE21	2:E:539:LYS:NZ	2.12	0.46
1:D:124:LEU:O	1:D:127:TRP:N	2.46	0.46
1:D:631:UNK:O	1:D:634:UNK:N	2.48	0.46
1:D:1280:LEU:O	1:D:1283:THR:N	2.48	0.46
1:D:1333:MET:CE	1:D:1429:GLN:HB2	2.44	0.46
1:D:1364:ARG:CZ	1:D:1476:PRO:N	2.78	0.46
1:D:1462:MET:HB2	1:D:1462:MET:HE3	1.69	0.46
1:D:1604:GLU:H	1:D:1604:GLU:HG3	1.36	0.46
2:E:549:LYS:O	2:E:553:LEU:HD23	2.14	0.46
2:E:590:ASP:O	2:E:601:HIS:NE2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:614:LYS:HG2	2:E:646:TYR:HA	1.97	0.46
3:F:87:PRO:HG3	3:F:135:THR:O	2.16	0.46
1:A:40:THR:OG1	1:A:45:TYR:HA	2.15	0.46
1:A:60:PRO:C	1:A:62:SER:N	2.74	0.46
1:A:84:GLU:O	1:A:88:ALA:CB	2.64	0.46
1:A:507:LEU:HD13	1:A:509:PHE:CZ	2.50	0.46
1:A:1017:GLU:C	1:A:1019:THR:H	2.21	0.46
1:A:1071:ARG:O	1:A:1074:TRP:HB3	2.16	0.46
1:A:1203:CYS:HA	1:A:1206:ASN:ND2	2.24	0.46
1:A:1379:MET:HE1	1:A:1385:ALA:O	2.15	0.46
1:A:1600:ASP:O	1:A:1604:GLU:HG3	2.15	0.46
3:C:168:VAL:O	3:C:170:ASP:N	2.48	0.46
1:D:17:TYR:HB3	1:D:63:PHE:HD1	1.76	0.46
1:D:843:UNK:C	1:D:845:UNK:N	2.77	0.46
1:D:1157:LEU:HA	1:D:1160:CYS:SG	2.55	0.46
1:D:1289:ASP:OD1	1:D:1289:ASP:C	2.56	0.46
1:D:1498:ALA:HA	1:D:1546:TYR:CZ	2.51	0.46
2:E:670:ASN:CA	2:E:675:LYS:HB2	2.45	0.46
3:F:137:ILE:HD12	3:F:141:GLN:OE1	2.15	0.46
1:A:186:ALA:O	1:A:187:HIS:C	2.57	0.46
1:A:238:UNK:N	1:A:262:UNK:HA	2.30	0.46
1:A:430:LEU:HD21	1:A:509:PHE:HE2	1.79	0.46
1:A:544:ASP:HB3	1:A:606:VAL:HG22	1.97	0.46
1:A:547:HIS:HD2	1:A:571:TYR:CD1	2.32	0.46
1:A:631:UNK:O	1:A:634:UNK:N	2.48	0.46
1:A:1135:LYS:O	1:A:1139:GLU:N	2.40	0.46
1:A:1161:ALA:HB2	1:A:1171:VAL:HG11	1.98	0.46
1:A:1281:TYR:HA	1:A:1284:ILE:HD12	1.96	0.46
1:A:1330:GLU:HG3	1:A:1335:ILE:HD11	1.98	0.46
1:A:1411:VAL:HG11	1:A:1469:PHE:HD2	1.80	0.46
2:B:537:LYS:HE2	2:B:694:ILE:CB	2.44	0.46
2:B:644:ILE:HG22	2:B:654:PHE:HE2	1.80	0.46
3:C:128:LYS:CD	3:C:128:LYS:N	2.79	0.46
1:D:84:GLU:O	1:D:88:ALA:CB	2.63	0.46
1:D:109:SER:C	1:D:110:LYS:NZ	2.73	0.46
1:D:452:VAL:HG13	1:D:505:ILE:HD12	1.97	0.46
1:D:984:VAL:HG13	1:D:985:TYR:CE1	2.49	0.46
1:D:1146:ASP:O	1:D:1149:TYR:HB2	2.16	0.46
1:D:1191:VAL:HG21	1:D:1203:CYS:SG	2.55	0.46
1:D:1253:TRP:CD2	1:D:1277:LYS:NZ	2.78	0.46
1:D:1274:ARG:HH11	1:D:1275:GLN:N	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1281:TYR:HA	1:D:1284:ILE:HG13	1.98	0.46
1:D:1308:TYR:HD1	1:D:1314:ASP:O	1.98	0.46
1:D:1429:GLN:C	1:D:1432:ASN:ND2	2.72	0.46
1:D:1513:ILE:CG1	1:D:1514:ASN:N	2.78	0.46
2:E:380:ALA:O	2:E:384:MET:HG2	2.16	0.46
2:E:548:ILE:HG23	2:E:552:ARG:NE	2.30	0.46
2:E:585:VAL:HG11	2:E:607:LYS:HB2	1.97	0.46
3:F:44:VAL:O	3:F:46:VAL:HG12	2.16	0.46
3:F:138:THR:O	3:F:141:GLN:HB2	2.15	0.46
1:A:109:SER:C	1:A:110:LYS:NZ	2.73	0.46
1:A:452:VAL:HG13	1:A:505:ILE:HD12	1.97	0.46
1:A:511:PHE:HD2	1:A:528:ALA:HB3	1.80	0.46
1:A:1133:ILE:O	1:A:1134:LEU:C	2.59	0.46
1:A:1176:ASN:HA	1:A:1179:LYS:HE2	1.97	0.46
1:A:1191:VAL:O	1:A:1193:THR:HG22	2.15	0.46
1:A:1217:GLU:O	1:A:1219:MET:N	2.48	0.46
1:A:1342:TYR:O	1:A:1343:PHE:CD1	2.68	0.46
1:A:1364:ARG:NH2	1:A:1475:LEU:O	2.49	0.46
1:A:1438:TYR:CA	1:A:1475:LEU:H	2.26	0.46
1:A:1540:MET:HA	1:A:1545:LYS:HE3	1.98	0.46
2:B:53:HIS:HA	2:B:75:LEU:HD23	1.98	0.46
2:B:511:TYR:HA	2:B:512:THR:HA	1.63	0.46
2:B:574:PHE:CB	2:B:591:LEU:HB3	2.45	0.46
3:C:36:VAL:HG23	3:C:37:PHE:H	1.81	0.46
3:C:53:LEU:HD11	3:C:169:PHE:HE1	1.81	0.46
3:C:94:ARG:CZ	3:C:145:MET:SD	3.02	0.46
1:D:14:VAL:O	1:D:65:HIS:N	2.34	0.46
1:D:31:ILE:HG23	2:E:536:LEU:HB2	1.98	0.46
1:D:477:ARG:HB2	1:D:477:ARG:NH1	2.30	0.46
1:D:1133:ILE:O	1:D:1134:LEU:C	2.59	0.46
1:D:1196:SER:O	1:D:1199:ASN:N	2.49	0.46
1:D:1199:ASN:O	1:D:1200:ARG:C	2.58	0.46
1:D:1330:GLU:HG3	1:D:1335:ILE:HD11	1.98	0.46
1:D:1347:TYR:O	1:D:1348:TYR:CD1	2.69	0.46
1:D:1463:TRP:N	1:D:1494:PRO:HG3	2.30	0.46
1:D:1540:MET:HA	1:D:1545:LYS:HE3	1.98	0.46
1:D:1560:PRO:HA	1:D:1563:GLN:NE2	2.31	0.46
1:D:1581:GLY:O	1:D:1582:ALA:C	2.58	0.46
1:D:1600:ASP:O	1:D:1604:GLU:HG3	2.15	0.46
3:F:77:VAL:HG22	3:F:109:PRO:HG2	1.97	0.46
3:F:129:LEU:HD13	3:F:136:PRO:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:THR:CB	1:A:45:TYR:HA	2.45	0.46
1:A:102:TRP:HA	1:A:105:LEU:CG	2.44	0.46
1:A:350:UNK:HA	1:A:481:TYR:CE1	2.50	0.46
1:A:445:ASN:OD1	1:A:480:VAL:HA	2.16	0.46
1:A:531:TYR:CD2	1:A:533:LYS:N	2.83	0.46
1:A:1062:MET:O	1:A:1063:ARG:C	2.59	0.46
1:A:1131:GLU:O	1:A:1134:LEU:HD11	2.16	0.46
1:A:1169:LYS:HE3	1:A:1173:ASN:HD21	1.81	0.46
1:A:1211:TYR:N	1:A:1211:TYR:HD1	2.13	0.46
1:A:1225:TYR:CD1	1:A:1228:ARG:CZ	2.98	0.46
1:A:1295:GLU:O	1:A:1296:GLU:C	2.59	0.46
1:A:1347:TYR:O	1:A:1348:TYR:CD1	2.69	0.46
1:A:1480:ARG:HB2	1:A:1481:TRP:CE3	2.51	0.46
1:A:1493:SER:HG	1:A:1496:GLU:HG3	1.81	0.46
1:A:1529:MET:HG3	3:C:56:TRP:CA	2.46	0.46
1:A:1530:LEU:HA	1:A:1530:LEU:HD12	1.67	0.46
1:A:1532:ASN:O	1:A:1534:ILE:N	2.49	0.46
1:A:1560:PRO:HA	1:A:1563:GLN:NE2	2.31	0.46
3:C:83:SER:H	3:C:89:SER:CB	2.26	0.46
1:D:186:ALA:O	1:D:187:HIS:C	2.57	0.46
1:D:445:ASN:OD1	1:D:480:VAL:HA	2.16	0.46
1:D:531:TYR:CD2	1:D:533:LYS:N	2.83	0.46
1:D:1295:GLU:O	1:D:1296:GLU:C	2.59	0.46
1:D:1366:LYS:HZ3	1:D:1480:ARG:HG2	1.80	0.46
1:D:1501:THR:C	1:D:1502:MET:HE2	2.40	0.46
1:D:1531:LEU:O	1:D:1535:VAL:HG22	2.15	0.46
2:E:534:LEU:HD12	2:E:537:LYS:HB2	1.98	0.46
2:E:540:ILE:CD1	2:E:697:ARG:HH12	2.28	0.46
2:E:657:PRO:HG2	2:E:661:GLU:CG	2.41	0.46
3:F:128:LYS:CD	3:F:128:LYS:N	2.79	0.46
1:A:88:ALA:O	1:A:89:GLN:C	2.59	0.46
1:A:106:TYR:HD1	1:A:111:LYS:HE2	1.80	0.46
1:A:122:TYR:O	1:A:125:MET:HB2	2.15	0.46
1:A:975:MET:O	1:A:979:LEU:HG	2.15	0.46
1:A:982:LYS:HG3	1:A:982:LYS:O	2.16	0.46
1:A:1157:LEU:HA	1:A:1160:CYS:SG	2.55	0.46
1:A:1250:LEU:HD12	1:A:1250:LEU:HA	1.38	0.46
1:A:1420:ARG:HG3	1:A:1421:PHE:H	1.81	0.46
1:A:1474:LYS:C	1:A:1475:LEU:HG	2.41	0.46
1:A:1571:ASP:O	1:A:1572:LEU:C	2.59	0.46
2:B:185:ALA:HA	2:B:188:VAL:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:240:GLN:OE1	2:B:279:VAL:HG22	2.15	0.46
2:B:327:LEU:HG	2:B:384:MET:SD	2.55	0.46
2:B:376:PRO:HD3	2:B:422:LYS:HB2	1.97	0.46
2:B:578:ARG:HE	2:B:587:HIS:CG	2.33	0.46
2:B:604:LEU:HD23	2:B:604:LEU:H	1.80	0.46
3:C:77:VAL:HG22	3:C:109:PRO:HG2	1.97	0.46
1:D:6:LYS:HB2	2:E:724:TYR:CE1	2.50	0.46
1:D:29:LEU:HD11	1:D:59:PHE:CD2	2.50	0.46
1:D:122:TYR:O	1:D:125:MET:HB2	2.15	0.46
1:D:162:ASP:OD1	1:D:162:ASP:N	2.35	0.46
1:D:982:LYS:HG3	1:D:982:LYS:O	2.16	0.46
1:D:1062:MET:O	1:D:1063:ARG:C	2.59	0.46
1:D:1278:GLU:CD	1:D:1279:THR:N	2.74	0.46
1:D:1342:TYR:O	1:D:1343:PHE:CD1	2.68	0.46
1:D:1431:ILE:HG13	1:D:1435:LYS:HZ2	1.81	0.46
1:D:1474:LYS:C	1:D:1475:LEU:HG	2.41	0.46
2:E:184:ILE:HD11	2:E:201:SER:HA	1.98	0.46
2:E:196:SER:O	2:E:199:GLN:HG2	2.16	0.46
2:E:309:MET:HE3	2:E:310:MET:HE3	1.96	0.46
3:F:72:TYR:CZ	3:F:100:GLU:HG2	2.50	0.46
1:A:5:ARG:NE	1:A:40:THR:HG23	2.28	0.46
1:A:83:ALA:N	1:A:84:GLU:OE2	2.48	0.46
1:A:111:LYS:HZ3	2:B:555:ARG:NH2	2.12	0.46
1:A:130:GLN:HA	1:A:136:LEU:HD21	1.98	0.46
1:A:459:THR:O	1:A:459:THR:HG22	2.15	0.46
1:A:1196:SER:O	1:A:1199:ASN:N	2.49	0.46
1:A:1333:MET:O	1:A:1429:GLN:OE1	2.34	0.46
1:A:1434:TYR:O	1:A:1437:ASN:N	2.49	0.46
2:B:270:GLN:O	2:B:274:ILE:HG12	2.16	0.46
2:B:645:LEU:HD13	2:B:651:GLN:HG2	1.96	0.46
1:D:45:TYR:O	1:D:58:ILE:HA	2.15	0.46
1:D:507:LEU:HD13	1:D:509:PHE:CZ	2.50	0.46
1:D:536:LYS:C	1:D:538:ASP:N	2.72	0.46
1:D:980:ILE:HG21	1:D:1036:PHE:HA	1.97	0.46
1:D:1071:ARG:O	1:D:1074:TRP:HB3	2.16	0.46
1:D:1101:ALA:HB3	1:D:1102:GLU:OE1	2.16	0.46
1:D:1131:GLU:O	1:D:1134:LEU:HD11	2.16	0.46
1:D:1147:GLU:O	1:D:1149:TYR:N	2.48	0.46
1:D:1191:VAL:O	1:D:1193:THR:HG22	2.15	0.46
1:D:1211:TYR:N	1:D:1211:TYR:HD1	2.13	0.46
1:D:1230:LEU:HA	1:D:1230:LEU:HD13	1.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1411:VAL:HG11	1:D:1469:PHE:HD2	1.80	0.46
1:D:1577:ILE:O	1:D:1580:LEU:HB2	2.15	0.46
3:F:53:LEU:HD11	3:F:169:PHE:HE1	1.81	0.46
3:F:168:VAL:O	3:F:170:ASP:N	2.48	0.46
1:A:31:ILE:CG2	2:B:536:LEU:HD23	2.46	0.46
1:A:267:UNK:HA	1:A:277:UNK:N	2.31	0.46
1:A:461:PRO:HA	1:A:474:ASN:CG	2.41	0.46
1:A:1101:ALA:O	1:A:1104:ARG:N	2.45	0.46
1:A:1256:GLU:HB2	1:A:1273:HIS:HB2	1.98	0.46
1:A:1339:LYS:N	1:A:1368:TYR:OH	2.49	0.46
1:A:1342:TYR:C	1:A:1343:PHE:CD2	2.94	0.46
1:A:1424:LYS:HD2	1:A:1425:PRO:CG	2.46	0.46
1:A:1424:LYS:HD2	1:A:1425:PRO:HG2	1.98	0.46
1:A:1446:ARG:HD3	1:A:1465:GLU:HB3	1.97	0.46
1:A:1531:LEU:O	1:A:1535:VAL:HG22	2.15	0.46
1:A:1609:LEU:HA	1:A:1612:LYS:HD2	1.98	0.46
2:B:396:ILE:HA	2:B:399:VAL:HG22	1.98	0.46
2:B:564:LYS:HB3	2:B:567:ALA:HB2	1.97	0.46
3:C:23:TYR:CA	3:C:162:GLN:HE21	2.28	0.46
3:C:69:PRO:HA	3:C:72:TYR:CD2	2.47	0.46
1:D:130:GLN:HA	1:D:136:LEU:HD21	1.98	0.46
1:D:428:ILE:HG23	1:D:604:THR:HG22	1.97	0.46
1:D:452:VAL:HG21	1:D:463:ALA:HB3	1.97	0.46
1:D:544:ASP:HB3	1:D:606:VAL:HG22	1.97	0.46
1:D:1169:LYS:HE3	1:D:1173:ASN:HD21	1.81	0.46
1:D:1225:TYR:CD1	1:D:1228:ARG:CZ	2.98	0.46
1:D:1273:HIS:ND1	1:D:1273:HIS:C	2.74	0.46
1:D:1339:LYS:N	1:D:1368:TYR:OH	2.49	0.46
1:D:1364:ARG:NH2	1:D:1475:LEU:O	2.49	0.46
1:D:1370:ARG:HH21	3:F:44:VAL:CG1	2.19	0.46
1:D:1505:ALA:O	1:D:1508:LYS:HB2	2.16	0.46
1:D:1530:LEU:HD12	1:D:1530:LEU:HA	1.67	0.46
1:D:1604:GLU:O	1:D:1608:ASN:OD1	2.34	0.46
2:E:292:HIS:CE1	2:E:439:ASN:HB3	2.51	0.46
2:E:356:TYR:HB2	2:E:364:HIS:O	2.16	0.46
2:E:667:ASP:OD1	2:E:677:MET:HA	2.16	0.46
3:F:36:VAL:HG23	3:F:37:PHE:H	1.81	0.46
3:F:77:VAL:HG13	3:F:109:PRO:O	2.16	0.46
3:F:171:GLU:C	3:F:173:ILE:N	2.71	0.46
1:A:446:VAL:HG11	1:A:487:PRO:CG	2.44	0.46
1:A:1181:LEU:O	1:A:1185:LEU:HD23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1252:LYS:O	1:A:1273:HIS:HE1	1.99	0.46
1:A:1253:TRP:HE3	1:A:1274:ARG:CG	2.29	0.46
1:A:1274:ARG:HD3	1:A:1275:GLN:N	2.30	0.46
1:A:1278:GLU:CD	1:A:1279:THR:N	2.74	0.46
1:A:1391:THR:HG22	1:A:1409:PHE:CD2	2.50	0.46
1:A:1462:MET:O	1:A:1494:PRO:HA	2.15	0.46
1:A:1499:ILE:O	1:A:1502:MET:HB2	2.16	0.46
1:A:1505:ALA:O	1:A:1508:LYS:HB2	2.16	0.46
1:A:1595:LEU:HD13	1:A:1598:PHE:CD2	2.46	0.46
2:B:555:ARG:HH11	2:B:664:ILE:HD12	1.81	0.46
3:C:103:HIS:HD2	3:C:104:HIS:CD2	2.31	0.46
1:D:1071:ARG:NH1	1:D:1106:ALA:HB3	2.26	0.46
1:D:1150:MET:O	1:D:1153:LEU:HB2	2.16	0.46
1:D:1256:GLU:HB2	1:D:1273:HIS:HB2	1.98	0.46
1:D:1342:TYR:C	1:D:1343:PHE:CD2	2.94	0.46
1:D:1424:LYS:HD2	1:D:1425:PRO:HG2	1.98	0.46
1:D:1480:ARG:HB2	1:D:1481:TRP:CE3	2.51	0.46
1:D:1531:LEU:HD23	1:D:1602:MET:HE3	1.97	0.46
1:D:1571:ASP:O	1:D:1572:LEU:C	2.59	0.46
2:E:541:GLN:NE2	2:E:686:LEU:HD21	2.16	0.46
2:E:657:PRO:CB	2:E:661:GLU:HG3	2.46	0.46
1:A:39:GLU:OE2	1:A:46:ARG:HG2	2.16	0.45
1:A:45:TYR:O	1:A:58:ILE:HA	2.15	0.45
1:A:1150:MET:O	1:A:1153:LEU:HB2	2.16	0.45
1:A:1281:TYR:HA	1:A:1284:ILE:HG13	1.98	0.45
1:A:1288:PHE:CD2	1:A:1296:GLU:OE2	2.69	0.45
1:A:1353:PRO:HB2	1:A:1355:PHE:CZ	2.50	0.45
1:A:1384:ASN:ND2	1:A:1404:GLN:N	2.65	0.45
1:A:1412:GLN:CB	1:A:1443:HIS:HD2	2.28	0.45
1:A:1537:PRO:HG3	1:A:1543:PHE:HZ	1.81	0.45
1:A:1581:GLY:O	1:A:1582:ALA:C	2.58	0.45
3:C:17:THR:HG23	3:C:18:CYS:N	2.26	0.45
3:C:21:ILE:HD11	3:C:40:TYR:OH	2.16	0.45
3:C:138:THR:OG1	3:C:141:GLN:HG3	2.16	0.45
1:D:273:UNK:CB	1:D:481:TYR:HD1	2.30	0.45
1:D:1231:HIS:HE2	1:D:1479:LEU:CD1	2.27	0.45
1:D:1363:TYR:HA	1:D:1481:TRP:HB2	1.96	0.45
1:D:1445:SER:H	1:D:1466:ARG:NH1	2.14	0.45
1:D:1610:LYS:O	1:D:1614:GLU:HG3	2.16	0.45
2:E:544:ILE:CG2	2:E:686:LEU:HD12	2.46	0.45
2:E:555:ARG:N	2:E:555:ARG:HD2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:601:HIS:HE1	2:E:603:SER:OG	1.99	0.45
2:E:658:ASP:O	2:E:662:TYR:N	2.45	0.45
2:E:708:ASP:O	2:E:710:PRO:HD3	2.15	0.45
1:A:137:PRO:CD	2:B:470:MET:HE2	2.47	0.45
1:A:1000:PHE:O	1:A:1004:ILE:HD12	2.17	0.45
1:A:1242:TYR:CE1	1:A:1288:PHE:CZ	3.02	0.45
1:A:1536:ASP:O	3:C:37:PHE:CD1	2.70	0.45
1:A:1610:LYS:O	1:A:1614:GLU:HG3	2.16	0.45
2:B:13:GLU:HG3	2:B:74:ILE:HD11	1.98	0.45
2:B:644:ILE:CG2	2:B:652:LEU:HB2	2.47	0.45
3:C:80:ILE:O	3:C:112:LEU:HD12	2.16	0.45
1:D:106:TYR:HD1	1:D:111:LYS:HE2	1.80	0.45
1:D:461:PRO:HA	1:D:474:ASN:CG	2.41	0.45
1:D:1206:ASN:O	1:D:1207:LEU:C	2.56	0.45
1:D:1274:ARG:HD3	1:D:1275:GLN:N	2.30	0.45
1:D:1366:LYS:HZ3	1:D:1480:ARG:CG	2.29	0.45
1:D:1391:THR:HG22	1:D:1409:PHE:CD2	2.50	0.45
1:D:1420:ARG:HG3	1:D:1421:PHE:H	1.81	0.45
1:D:1446:ARG:HD3	1:D:1465:GLU:HB3	1.97	0.45
1:D:1498:ALA:HA	1:D:1546:TYR:OH	2.16	0.45
1:D:1499:ILE:O	1:D:1502:MET:HB2	2.16	0.45
1:D:1532:ASN:O	1:D:1534:ILE:N	2.49	0.45
2:E:356:TYR:HD2	2:E:359:LEU:HD12	1.81	0.45
1:A:162:ASP:OD1	1:A:162:ASP:N	2.35	0.45
1:A:226:UNK:N	1:A:382:UNK:O	2.50	0.45
1:A:969:LEU:O	1:A:972:THR:OG1	2.29	0.45
1:A:1088:MET:HE1	1:A:1108:ILE:CG2	2.46	0.45
1:A:1167:ILE:O	1:A:1168:ALA:C	2.55	0.45
1:A:1372:GLU:O	1:A:1376:MET:HG2	2.17	0.45
1:A:1431:ILE:O	1:A:1435:LYS:HG2	2.17	0.45
1:A:1479:LEU:O	1:A:1481:TRP:N	2.48	0.45
1:A:1564:ASP:OD1	1:A:1568:HIS:NE2	2.48	0.45
2:B:532:PRO:HA	2:B:535:GLU:CD	2.41	0.45
2:B:558:GLU:OE2	2:B:560:THR:HG23	2.17	0.45
3:C:82:PHE:HE1	3:C:154:TYR:CE1	2.35	0.45
1:D:39:GLU:OE2	1:D:46:ARG:HG2	2.16	0.45
1:D:226:UNK:N	1:D:382:UNK:O	2.50	0.45
1:D:1000:PHE:O	1:D:1004:ILE:HD12	2.17	0.45
1:D:1088:MET:HE1	1:D:1108:ILE:CG2	2.46	0.45
1:D:1106:ALA:O	1:D:1109:PRO:HG2	2.16	0.45
1:D:1181:LEU:O	1:D:1185:LEU:HD23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1414:VAL:HG21	1:D:1441:ARG:HG3	1.98	0.45
1:D:1415:LEU:CD2	1:D:1435:LYS:HD3	2.43	0.45
1:D:1537:PRO:HG3	1:D:1543:PHE:HZ	1.81	0.45
2:E:377:GLY:C	2:E:378:MET:HE2	2.41	0.45
2:E:552:ARG:NH1	2:E:552:ARG:H	2.08	0.45
2:E:586:LEU:HB2	2:E:588:TYR:CD1	2.51	0.45
2:E:586:LEU:HB3	2:E:588:TYR:HD1	1.81	0.45
1:A:7:ALA:N	1:A:39:GLU:HA	2.32	0.45
1:A:102:TRP:CD1	1:A:114:PHE:CD1	3.04	0.45
1:A:109:SER:C	1:A:110:LYS:HZ2	2.24	0.45
1:A:428:ILE:HG23	1:A:604:THR:HG22	1.97	0.45
1:A:1042:LEU:HD22	1:A:1046:GLN:HG3	1.98	0.45
1:A:1146:ASP:O	1:A:1149:TYR:HB2	2.16	0.45
1:A:1236:ASN:C	1:A:1238:THR:H	2.23	0.45
1:A:1236:ASN:HA	1:A:1238:THR:HG23	1.99	0.45
1:A:1283:THR:CG2	1:A:1287:TYR:OH	2.65	0.45
1:A:1333:MET:HE3	1:A:1333:MET:HB3	1.64	0.45
1:A:1470:VAL:O	1:A:1485:VAL:HG12	2.16	0.45
1:A:1498:ALA:HA	1:A:1546:TYR:CZ	2.51	0.45
2:B:181:ILE:HD12	2:B:208:MET:SD	2.56	0.45
2:B:302:PHE:HB3	2:B:428:LEU:HD21	1.98	0.45
3:C:111:ILE:CG2	3:C:112:LEU:H	2.25	0.45
1:D:1201:MET:CE	1:D:1231:HIS:CD2	2.99	0.45
1:D:1253:TRP:HE3	1:D:1274:ARG:CG	2.29	0.45
1:D:1288:PHE:CD2	1:D:1296:GLU:OE2	2.70	0.45
1:D:1318:LEU:HD12	1:D:1318:LEU:HA	1.50	0.45
1:D:1333:MET:O	1:D:1429:GLN:OE1	2.34	0.45
1:D:1372:GLU:O	1:D:1376:MET:HG2	2.17	0.45
1:D:1378:LEU:HD13	1:D:1378:LEU:HA	1.76	0.45
1:D:1424:LYS:O	1:D:1426:VAL:HG23	2.17	0.45
1:D:1431:ILE:O	1:D:1435:LYS:HG2	2.16	0.45
1:D:1434:TYR:O	1:D:1437:ASN:HB2	2.16	0.45
1:D:1598:PHE:O	1:D:1602:MET:HE2	2.15	0.45
1:D:1602:MET:O	1:D:1603:GLU:C	2.58	0.45
2:E:608:LEU:HD23	2:E:608:LEU:C	2.41	0.45
3:F:63:ASP:OD1	3:F:63:ASP:N	2.49	0.45
1:A:1298:ILE:O	1:A:1302:LYS:HG2	2.17	0.45
1:A:1347:TYR:HD2	1:A:1359:LYS:CB	2.29	0.45
1:A:1364:ARG:N	1:A:1480:ARG:O	2.42	0.45
1:A:1391:THR:OG1	3:C:31:GLU:OE2	2.19	0.45
1:A:1479:LEU:HA	1:A:1479:LEU:HD12	1.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1604:GLU:O	1:A:1608:ASN:OD1	2.34	0.45
2:B:110:LEU:HG	2:B:116:PHE:CD2	2.52	0.45
1:D:119:SER:OG	1:D:120:MET:HG2	2.17	0.45
1:D:884:UNK:O	1:D:887:UNK:N	2.50	0.45
1:D:1058:LYS:HZ2	1:D:1058:LYS:HG3	1.64	0.45
1:D:1135:LYS:O	1:D:1139:GLU:N	2.40	0.45
1:D:1255:ASP:OD1	1:D:1274:ARG:HD3	2.17	0.45
1:D:1283:THR:CG2	1:D:1287:TYR:OH	2.65	0.45
1:D:1322:LEU:O	1:D:1323:ILE:C	2.59	0.45
2:E:188:VAL:HG12	2:E:227:GLN:NE2	2.31	0.45
2:E:225:ILE:O	2:E:229:ILE:HG12	2.16	0.45
2:E:579:LEU:HG	2:E:580:SER:N	2.32	0.45
2:E:585:VAL:HA	2:E:609:PRO:HA	1.97	0.45
3:F:21:ILE:HD11	3:F:40:TYR:OH	2.16	0.45
1:A:1185:LEU:HD13	1:A:1185:LEU:HA	1.61	0.45
1:A:1224:LEU:O	1:A:1227:LEU:HB3	2.15	0.45
1:A:1301:CYS:HB3	1:A:1325:GLN:OE1	2.15	0.45
1:A:1322:LEU:HA	1:A:1325:GLN:CG	2.46	0.45
1:A:1344:ALA:HB1	1:A:1360:VAL:HG13	1.98	0.45
1:A:1424:LYS:O	1:A:1426:VAL:HG23	2.17	0.45
1:A:1434:TYR:HA	1:A:1437:ASN:ND2	2.32	0.45
2:B:173:TRP:HB2	2:B:211:ASN:HD22	1.80	0.45
3:C:120:ARG:O	3:C:136:PRO:HB3	2.17	0.45
1:D:53:LYS:H	1:D:53:LYS:HG3	1.16	0.45
1:D:102:TRP:HA	1:D:105:LEU:CG	2.44	0.45
1:D:572:ARG:NH1	1:D:599:VAL:HB	2.32	0.45
1:D:1034:VAL:HG21	1:D:1090:GLY:HA3	1.99	0.45
1:D:1346:GLY:N	1:D:1406:ILE:HG23	2.26	0.45
1:D:1370:ARG:HD3	1:D:1372:GLU:OE1	2.17	0.45
1:D:1384:ASN:ND2	1:D:1404:GLN:N	2.64	0.45
1:D:1415:LEU:HD11	1:D:1418:HIS:CD2	2.52	0.45
1:D:1418:HIS:O	1:D:1422:LYS:N	2.38	0.45
1:D:1434:TYR:HA	1:D:1437:ASN:CB	2.40	0.45
1:D:1470:VAL:O	1:D:1485:VAL:HG12	2.16	0.45
1:D:1507:GLU:C	1:D:1511:MET:HE3	2.41	0.45
1:D:1542:GLY:O	1:D:1543:PHE:C	2.59	0.45
1:D:1609:LEU:HA	1:D:1612:LYS:HD2	1.98	0.45
2:E:532:PRO:HD3	2:E:708:ASP:CA	2.28	0.45
3:F:82:PHE:HE1	3:F:154:TYR:CE1	2.35	0.45
1:A:107:VAL:HG23	2:B:551:GLN:HE21	1.82	0.45
1:A:843:UNK:C	1:A:845:UNK:N	2.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1042:LEU:CD2	1:A:1046:GLN:HG3	2.46	0.45
1:A:1297:ALA:HB1	1:A:1328:PHE:CG	2.52	0.45
1:A:1332:ILE:HG22	1:A:1333:MET:N	2.32	0.45
1:A:1431:ILE:HG13	1:A:1435:LYS:NZ	2.32	0.45
1:A:1445:SER:H	1:A:1466:ARG:NH1	2.14	0.45
1:A:1507:GLU:C	1:A:1511:MET:HE3	2.41	0.45
3:C:1:MET:O	3:C:52:ASN:N	2.49	0.45
3:C:161:THR:OG1	3:C:163:ARG:NH2	2.50	0.45
1:D:88:ALA:O	1:D:89:GLN:C	2.59	0.45
1:D:102:TRP:CD1	1:D:114:PHE:CD1	3.04	0.45
1:D:267:UNK:HA	1:D:277:UNK:N	2.31	0.45
1:D:477:ARG:NH2	1:D:514:ARG:HD2	2.31	0.45
1:D:709:UNK:O	1:D:712:UNK:CB	2.64	0.45
1:D:906:UNK:O	1:D:907:UNK:C	2.65	0.45
1:D:1161:ALA:HB2	1:D:1171:VAL:HG11	1.98	0.45
1:D:1188:TYR:O	1:D:1191:VAL:HG22	2.17	0.45
1:D:1297:ALA:HB1	1:D:1328:PHE:CG	2.52	0.45
1:D:1322:LEU:HA	1:D:1325:GLN:CG	2.46	0.45
1:D:1424:LYS:HD2	1:D:1425:PRO:CG	2.46	0.45
1:D:1610:LYS:HE2	1:D:1614:GLU:OE1	2.17	0.45
2:E:661:GLU:O	2:E:664:ILE:HB	2.17	0.45
2:E:665:TRP:O	2:E:666:THR:C	2.59	0.45
3:F:47:ASP:C	3:F:49:LYS:H	2.25	0.45
3:F:138:THR:OG1	3:F:141:GLN:HG3	2.16	0.45
1:A:152:ILE:O	1:A:155:GLY:N	2.50	0.45
1:A:820:UNK:O	1:A:821:UNK:C	2.64	0.45
1:A:884:UNK:O	1:A:887:UNK:N	2.50	0.45
1:A:1004:ILE:O	1:A:1007:PHE:N	2.50	0.45
1:A:1101:ALA:HB3	1:A:1102:GLU:OE1	2.16	0.45
1:A:1273:HIS:ND1	1:A:1273:HIS:C	2.74	0.45
1:A:1366:LYS:HZ3	1:A:1480:ARG:HG2	1.82	0.45
2:B:69:ILE:HG23	2:B:73:THR:HG21	1.99	0.45
1:D:39:GLU:O	1:D:46:ARG:N	2.45	0.45
1:D:571:TYR:HB3	1:D:573:HIS:HB3	1.98	0.45
1:D:1191:VAL:HG21	1:D:1203:CYS:CB	2.47	0.45
1:D:1344:ALA:HB1	1:D:1360:VAL:HG13	1.98	0.45
1:D:1344:ALA:HB1	1:D:1360:VAL:CG1	2.46	0.45
1:D:1368:TYR:HB3	3:F:45:MET:H	1.80	0.45
1:D:1443:HIS:HA	1:D:1468:SER:OG	2.17	0.45
1:D:1587:HIS:CD2	1:D:1591:VAL:HG11	2.52	0.45
2:E:687:ASP:O	2:E:691:SER:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:83:SER:HA	3:F:115:THR:N	2.32	0.45
3:F:127:GLU:O	3:F:130:LYS:HG2	2.17	0.45
1:A:536:LYS:C	1:A:538:ASP:N	2.72	0.45
1:A:571:TYR:HB3	1:A:573:HIS:HB3	1.98	0.45
1:A:709:UNK:O	1:A:712:UNK:CB	2.64	0.45
1:A:856:UNK:C	1:A:858:UNK:N	2.79	0.45
1:A:906:UNK:O	1:A:907:UNK:C	2.65	0.45
1:A:1034:VAL:HG21	1:A:1090:GLY:HA3	1.99	0.45
1:A:1133:ILE:C	1:A:1137:ASP:OD2	2.60	0.45
1:A:1366:LYS:HZ3	1:A:1480:ARG:CG	2.30	0.45
1:A:1367:GLU:HB2	3:C:45:MET:SD	2.57	0.45
1:A:1498:ALA:HA	1:A:1546:TYR:OH	2.16	0.45
1:A:1542:GLY:O	1:A:1543:PHE:C	2.59	0.45
1:A:1542:GLY:O	1:A:1546:TYR:N	2.42	0.45
1:A:1543:PHE:O	1:A:1544:ALA:C	2.60	0.45
2:B:383:ASN:HB3	2:B:456:PHE:CG	2.51	0.45
3:C:2:GLN:NE2	3:C:3:ALA:O	2.50	0.45
1:D:7:ALA:N	1:D:39:GLU:HA	2.32	0.45
1:D:508:ARG:C	1:D:509:PHE:HD1	2.24	0.45
1:D:820:UNK:O	1:D:821:UNK:C	2.64	0.45
1:D:1133:ILE:C	1:D:1137:ASP:OD2	2.60	0.45
1:D:1424:LYS:NZ	1:D:1425:PRO:O	2.25	0.45
1:D:1427:PRO:C	1:D:1429:GLN:H	2.24	0.45
1:D:1595:LEU:HD13	1:D:1598:PHE:CD2	2.46	0.45
2:E:53:HIS:HB2	2:E:58:ASN:HA	1.99	0.45
2:E:275:ILE:HG21	2:E:294:LEU:HD21	1.99	0.45
2:E:499:LEU:O	2:E:503:LYS:HG3	2.17	0.45
3:F:132:LYS:O	3:F:134:LEU:HG	2.16	0.45
1:A:181:ILE:O	1:A:184:PHE:HB3	2.17	0.45
1:A:1087:GLY:O	1:A:1091:PRO:HG2	2.17	0.45
1:A:1306:GLU:O	1:A:1307:GLN:C	2.59	0.45
1:A:1333:MET:HE1	1:A:1427:PRO:O	2.17	0.45
1:A:1368:TYR:CB	3:C:45:MET:HB2	2.46	0.45
1:A:1414:VAL:HG21	1:A:1441:ARG:HG3	1.99	0.45
1:A:1434:TYR:O	1:A:1437:ASN:HB2	2.16	0.45
1:A:1446:ARG:N	3:C:33:ILE:HD11	2.31	0.45
2:B:12:ILE:HG22	2:B:41:TRP:CH2	2.51	0.45
2:B:553:LEU:O	2:B:557:VAL:HG23	2.16	0.45
3:C:63:ASP:N	3:C:63:ASP:OD1	2.49	0.45
3:C:102:ARG:HA	3:C:102:ARG:NE	2.32	0.45
3:C:132:LYS:O	3:C:134:LEU:HG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:20:GLN:HE21	2:E:539:LYS:CE	2.30	0.45
1:D:457:GLY:HA2	1:D:508:ARG:HE	1.82	0.45
1:D:697:UNK:C	1:D:699:UNK:N	2.79	0.45
1:D:1282:GLU:O	1:D:1283:THR:C	2.59	0.45
1:D:1333:MET:HE1	1:D:1427:PRO:O	2.17	0.45
1:D:1356:LEU:HD23	1:D:1356:LEU:HA	1.74	0.45
1:D:1431:ILE:HG13	1:D:1435:LYS:NZ	2.32	0.45
1:D:1459:PHE:HE2	1:D:1540:MET:SD	2.40	0.45
2:E:530:SER:OG	2:E:533:ILE:HD12	2.17	0.45
2:E:601:HIS:CE1	2:E:603:SER:OG	2.69	0.45
2:E:604:LEU:HD23	2:E:604:LEU:HA	1.56	0.45
2:E:670:ASN:CB	2:E:675:LYS:HB2	2.47	0.45
3:F:102:ARG:HA	3:F:102:ARG:NE	2.32	0.45
3:F:115:THR:HG22	3:F:116:LYS:N	2.29	0.45
1:A:1130:ASN:CA	1:A:1216:ARG:HH22	2.28	0.44
1:A:1188:TYR:O	1:A:1191:VAL:HG22	2.17	0.44
1:A:1193:THR:HG1	1:A:1194:ASP:CG	2.24	0.44
1:A:1347:TYR:CD1	1:A:1356:LEU:HB3	2.52	0.44
1:A:1500:GLU:C	1:A:1503:SER:HG	2.20	0.44
3:C:72:TYR:CB	3:C:104:HIS:CG	3.01	0.44
3:C:77:VAL:HA	3:C:108:THR:CG2	2.46	0.44
3:C:158:SER:O	3:C:162:GLN:N	2.50	0.44
3:C:170:ASP:CA	3:C:174:ARG:HH12	2.30	0.44
1:D:4:TRP:CH2	2:E:717:PRO:HG2	2.51	0.44
1:D:182:SER:CA	1:D:185:HIS:HD2	2.30	0.44
1:D:777:UNK:O	1:D:780:UNK:CB	2.66	0.44
1:D:1042:LEU:CD2	1:D:1046:GLN:HG3	2.46	0.44
1:D:1098:ILE:O	1:D:1099:PRO:C	2.60	0.44
1:D:1277:LYS:O	1:D:1278:GLU:C	2.56	0.44
1:D:1306:GLU:O	1:D:1307:GLN:C	2.59	0.44
1:D:1414:VAL:O	1:D:1439:VAL:HG12	2.16	0.44
1:D:1453:VAL:O	1:D:1453:VAL:HG12	2.17	0.44
1:D:1480:ARG:NE	1:D:1481:TRP:HZ3	2.12	0.44
2:E:330:ILE:HG23	2:E:395:TYR:CE2	2.52	0.44
2:E:620:LYS:NZ	2:E:639:GLU:OE1	2.46	0.44
2:E:659:LYS:HZ3	2:E:662:TYR:HB3	1.81	0.44
3:F:2:GLN:NE2	3:F:3:ALA:O	2.50	0.44
3:F:77:VAL:HA	3:F:108:THR:CG2	2.46	0.44
3:F:80:ILE:O	3:F:112:LEU:HD12	2.16	0.44
1:A:110:LYS:HD3	1:A:110:LYS:HA	1.15	0.44
1:A:299:UNK:O	1:A:301:UNK:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:508:ARG:C	1:A:509:PHE:HD1	2.24	0.44
1:A:1534:ILE:O	1:A:1535:VAL:C	2.56	0.44
1:A:1553:GLU:O	1:A:1554:GLU:C	2.60	0.44
3:C:127:GLU:O	3:C:130:LYS:HG2	2.17	0.44
1:D:19:PHE:CG	1:D:60:PRO:HD3	2.52	0.44
1:D:1004:ILE:O	1:D:1007:PHE:N	2.50	0.44
1:D:1220:TYR:O	1:D:1221:ILE:C	2.60	0.44
2:E:420:LEU:HD22	2:E:463:LEU:HD13	2.00	0.44
2:E:564:LYS:HG2	2:E:575:TRP:CZ2	2.52	0.44
3:F:11:ASP:OD1	3:F:96:LYS:HD3	2.18	0.44
3:F:90:PHE:HB2	3:F:137:ILE:HG13	1.99	0.44
3:F:120:ARG:O	3:F:136:PRO:HB3	2.17	0.44
1:A:31:ILE:HG23	2:B:536:LEU:HD23	1.98	0.44
1:A:273:UNK:CB	1:A:481:TYR:HD1	2.30	0.44
1:A:572:ARG:NH1	1:A:599:VAL:HB	2.32	0.44
1:A:777:UNK:O	1:A:780:UNK:CB	2.65	0.44
1:A:1106:ALA:O	1:A:1109:PRO:HG2	2.16	0.44
1:A:1156:ILE:HG13	1:A:1156:ILE:H	1.31	0.44
1:A:1231:HIS:CE1	1:A:1236:ASN:CB	3.01	0.44
1:A:1414:VAL:O	1:A:1439:VAL:HG12	2.16	0.44
1:A:1427:PRO:C	1:A:1429:GLN:H	2.24	0.44
1:A:1446:ARG:HG3	3:C:31:GLU:HG3	1.99	0.44
1:A:1509:ILE:O	1:A:1510:LEU:C	2.61	0.44
2:B:420:LEU:HD21	2:B:459:CYS:SG	2.56	0.44
3:C:21:ILE:HD13	3:C:35:THR:N	2.32	0.44
3:C:47:ASP:C	3:C:49:LYS:H	2.25	0.44
1:D:18:ASN:HD21	2:E:539:LYS:HD2	1.83	0.44
1:D:93:THR:O	1:D:94:THR:C	2.60	0.44
1:D:181:ILE:O	1:D:184:PHE:HB3	2.17	0.44
1:D:820:UNK:O	1:D:823:UNK:N	2.51	0.44
1:D:1008:ALA:O	1:D:1009:GLU:C	2.60	0.44
1:D:1130:ASN:O	1:D:1131:GLU:C	2.61	0.44
1:D:1241:ALA:O	1:D:1242:TYR:C	2.59	0.44
1:D:1298:ILE:O	1:D:1302:LYS:HG2	2.17	0.44
1:D:1345:VAL:HG13	1:D:1347:TYR:OH	2.18	0.44
1:D:1391:THR:HG23	3:F:28:PHE:CG	2.52	0.44
1:D:1412:GLN:CB	1:D:1443:HIS:HD2	2.28	0.44
2:E:69:ILE:HG23	2:E:73:THR:HG21	2.00	0.44
2:E:663:CYS:O	2:E:667:ASP:HB2	2.17	0.44
3:F:82:PHE:CE1	3:F:112:LEU:HG	2.52	0.44
3:F:93:VAL:CG2	3:F:94:ARG:HH22	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:103:HIS:HD2	3:F:104:HIS:CD2	2.31	0.44
3:F:158:SER:O	3:F:162:GLN:N	2.50	0.44
1:A:33:ASP:O	1:A:35:VAL:HG13	2.18	0.44
1:A:512:ARG:HB3	1:A:524:GLU:O	2.17	0.44
1:A:531:TYR:HD2	1:A:533:LYS:N	2.16	0.44
1:A:1230:LEU:N	1:A:1230:LEU:HD22	2.32	0.44
1:A:1344:ALA:HB1	1:A:1360:VAL:CG1	2.46	0.44
1:A:1370:ARG:HD3	1:A:1372:GLU:OE1	2.17	0.44
1:A:1443:HIS:HA	1:A:1468:SER:OG	2.17	0.44
1:A:1512:MET:O	1:A:1513:ILE:C	2.60	0.44
1:A:1600:ASP:HA	1:A:1603:GLU:OE2	2.16	0.44
1:A:1604:GLU:HG3	1:A:1604:GLU:H	1.36	0.44
1:A:1610:LYS:HE2	1:A:1614:GLU:OE1	2.17	0.44
2:B:374:THR:HG22	2:B:377:GLY:HA3	2.00	0.44
2:B:427:ILE:HG13	2:B:428:LEU:N	2.33	0.44
2:B:549:LYS:CE	2:B:671:ALA:HB2	2.46	0.44
3:C:90:PHE:HB2	3:C:137:ILE:HG13	1.99	0.44
1:D:140:GLU:OE2	2:E:511:TYR:HE2	2.01	0.44
1:D:152:ILE:O	1:D:155:GLY:N	2.49	0.44
1:D:531:TYR:O	1:D:565:TYR:CE2	2.70	0.44
1:D:856:UNK:C	1:D:858:UNK:N	2.79	0.44
1:D:1252:LYS:O	1:D:1273:HIS:HE1	1.99	0.44
1:D:1274:ARG:NH1	1:D:1274:ARG:HG2	2.33	0.44
1:D:1347:TYR:CD1	1:D:1356:LEU:HB3	2.52	0.44
1:D:1385:ALA:HA	1:D:1404:GLN:O	2.18	0.44
1:D:1409:PHE:CD1	3:F:28:PHE:HD1	2.36	0.44
1:D:1434:TYR:O	1:D:1437:ASN:N	2.49	0.44
1:D:1553:GLU:O	1:D:1554:GLU:C	2.60	0.44
1:D:1562:ASP:O	1:D:1565:LYS:HB3	2.17	0.44
2:E:308:ARG:NH2	2:E:382:ASP:OD1	2.45	0.44
2:E:548:ILE:HA	2:E:552:ARG:NH2	2.32	0.44
2:E:591:LEU:HD13	2:E:598:GLU:HA	2.00	0.44
1:A:14:VAL:O	1:A:65:HIS:N	2.34	0.44
1:A:37:ILE:HG21	1:A:45:TYR:HB3	1.99	0.44
1:A:350:UNK:HA	1:A:481:TYR:HE1	1.82	0.44
1:A:697:UNK:C	1:A:699:UNK:N	2.79	0.44
1:A:1255:ASP:OD1	1:A:1274:ARG:HD3	2.17	0.44
1:A:1290:LYS:O	1:A:1292:LYS:N	2.50	0.44
1:A:1453:VAL:HG12	1:A:1453:VAL:O	2.17	0.44
1:A:1470:VAL:CG1	1:A:1486:HIS:HB2	2.44	0.44
1:A:1562:ASP:O	1:A:1565:LYS:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:531:ARG:N	2:B:532:PRO:HD2	2.33	0.44
2:B:552:ARG:NH2	2:B:663:CYS:SG	2.90	0.44
3:C:83:SER:HA	3:C:115:THR:N	2.32	0.44
1:D:18:ASN:ND2	2:E:539:LYS:HD2	2.32	0.44
1:D:65:HIS:ND1	2:E:704:ILE:HD13	2.33	0.44
1:D:87:LEU:HA	1:D:90:GLU:HG3	1.99	0.44
1:D:139:ASP:OD2	2:E:471:ARG:HD3	2.17	0.44
1:D:547:HIS:N	1:D:602:ILE:O	2.51	0.44
1:D:1042:LEU:HD22	1:D:1046:GLN:HG3	1.98	0.44
1:D:1231:HIS:CE1	1:D:1236:ASN:CB	3.01	0.44
1:D:1281:TYR:HA	1:D:1284:ILE:CD1	2.48	0.44
1:D:1290:LYS:O	1:D:1292:LYS:N	2.50	0.44
1:D:1332:ILE:HG22	1:D:1333:MET:N	2.32	0.44
1:D:1442:PHE:CE2	1:D:1471:THR:HG23	2.53	0.44
1:D:1473:TYR:HB2	1:D:1482:PHE:CE1	2.53	0.44
1:D:1475:LEU:HA	1:D:1477:GLY:N	2.32	0.44
1:D:1542:GLY:O	1:D:1546:TYR:N	2.42	0.44
2:E:652:LEU:HD12	2:E:652:LEU:HA	1.65	0.44
2:E:667:ASP:HA	2:E:670:ASN:ND2	2.32	0.44
3:F:72:TYR:CB	3:F:104:HIS:CG	3.01	0.44
3:F:161:THR:OG1	3:F:163:ARG:NH2	2.50	0.44
1:A:119:SER:OG	1:A:120:MET:HG2	2.17	0.44
1:A:126:GLU:OE1	1:A:127:TRP:HD1	2.00	0.44
1:A:430:LEU:CD2	1:A:602:ILE:HD12	2.47	0.44
1:A:453:CYS:HB3	1:A:457:GLY:C	2.43	0.44
1:A:798:UNK:C	1:A:801:UNK:N	2.78	0.44
1:A:1005:ASN:ND2	1:A:1005:ASN:H	2.12	0.44
1:A:1164:HIS:HB3	1:A:1167:ILE:HB	2.00	0.44
1:A:1303:GLU:HA	1:A:1306:GLU:HB2	2.00	0.44
1:A:1322:LEU:O	1:A:1323:ILE:C	2.59	0.44
1:A:1383:PRO:CB	2:B:582:ASN:HB2	2.48	0.44
1:A:1464:ILE:CD1	3:C:33:ILE:HG12	2.47	0.44
1:A:1573:ILE:O	1:A:1576:GLN:CB	2.49	0.44
1:A:1586:ILE:O	1:A:1587:HIS:C	2.60	0.44
1:A:1587:HIS:CD2	1:A:1591:VAL:HG11	2.52	0.44
2:B:310:MET:HA	2:B:374:THR:HB	2.00	0.44
2:B:585:VAL:HG11	2:B:607:LYS:NZ	2.32	0.44
3:C:11:ASP:OD1	3:C:96:LYS:HD3	2.18	0.44
3:C:100:GLU:O	3:C:103:HIS:HB3	2.18	0.44
1:D:267:UNK:CB	1:D:276:UNK:HA	2.48	0.44
1:D:531:TYR:HD2	1:D:533:LYS:N	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1347:TYR:HD2	1:D:1359:LYS:CB	2.28	0.44
1:D:1364:ARG:N	1:D:1480:ARG:O	2.42	0.44
1:D:1434:TYR:HA	1:D:1437:ASN:ND2	2.32	0.44
2:E:572:ASP:CB	2:E:590:ASP:HB3	2.48	0.44
2:E:586:LEU:CB	2:E:588:TYR:CD1	3.00	0.44
2:E:622:CYS:SG	2:E:642:PHE:N	2.91	0.44
3:F:93:VAL:H	3:F:93:VAL:HG22	1.57	0.44
1:A:19:PHE:HB2	1:A:63:PHE:HD2	1.82	0.44
1:A:87:LEU:HA	1:A:90:GLU:HG3	1.99	0.44
1:A:547:HIS:N	1:A:602:ILE:O	2.51	0.44
1:A:820:UNK:O	1:A:823:UNK:N	2.51	0.44
1:A:1011:MET:HE3	1:A:1026:TRP:CZ2	2.53	0.44
1:A:1025:LEU:O	1:A:1026:TRP:C	2.61	0.44
1:A:1430:ILE:C	1:A:1432:ASN:OD1	2.60	0.44
1:A:1523:PRO:C	1:A:1525:ASN:OD1	2.61	0.44
2:B:379:LEU:HA	2:B:379:LEU:HD23	1.70	0.44
2:B:548:ILE:HA	2:B:551:GLN:OE1	2.17	0.44
2:B:607:LYS:O	2:B:608:LEU:HD23	2.18	0.44
3:C:128:LYS:N	3:C:128:LYS:HD3	2.32	0.44
1:D:106:TYR:CZ	2:E:551:GLN:CD	2.96	0.44
1:D:138:LYS:O	1:D:142:LYS:HB3	2.18	0.44
1:D:1095:MET:O	1:D:1102:GLU:HG3	2.18	0.44
1:D:1230:LEU:N	1:D:1230:LEU:HD22	2.32	0.44
1:D:1242:TYR:CE1	1:D:1288:PHE:CZ	3.02	0.44
1:D:1303:GLU:HA	1:D:1306:GLU:HB2	2.00	0.44
1:D:1442:PHE:HE2	1:D:1471:THR:HG23	1.82	0.44
1:D:1470:VAL:CG1	1:D:1486:HIS:HB2	2.44	0.44
1:D:1510:LEU:C	1:D:1510:LEU:HD23	2.43	0.44
1:D:1569:LEU:O	1:D:1570:LYS:C	2.60	0.44
1:D:1600:ASP:HA	1:D:1603:GLU:OE2	2.16	0.44
2:E:398:ILE:HD13	2:E:464:ASN:OD1	2.18	0.44
2:E:528:PHE:O	2:E:534:LEU:HB2	2.18	0.44
2:E:571:GLN:C	2:E:573:LYS:H	2.25	0.44
3:F:6:CYS:H	3:F:56:TRP:CD1	2.36	0.44
1:A:102:TRP:CD1	1:A:105:LEU:HD12	2.52	0.44
1:A:267:UNK:CB	1:A:276:UNK:HA	2.48	0.44
1:A:457:GLY:HA2	1:A:508:ARG:HE	1.82	0.44
1:A:477:ARG:NH2	1:A:514:ARG:HD2	2.31	0.44
1:A:818:UNK:O	1:A:819:UNK:C	2.66	0.44
1:A:1058:LYS:HZ2	1:A:1058:LYS:HG3	1.58	0.44
1:A:1325:GLN:HA	1:A:1328:PHE:HD2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1345:VAL:HG13	1:A:1347:TYR:OH	2.18	0.44
1:A:1370:ARG:HD3	1:A:1371:ARG:H	1.83	0.44
1:A:1415:LEU:CD2	1:A:1435:LYS:HD3	2.43	0.44
1:A:1442:PHE:CE2	1:A:1471:THR:HG23	2.53	0.44
1:A:1442:PHE:HE2	1:A:1471:THR:HG23	1.82	0.44
2:B:62:THR:HG22	2:B:63:GLU:N	2.33	0.44
2:B:173:TRP:HD1	2:B:211:ASN:HD22	1.65	0.44
2:B:457:CYS:O	2:B:460:ILE:HG12	2.18	0.44
2:B:462:LEU:HG	2:B:506:LEU:HD13	2.00	0.44
2:B:580:SER:OG	2:B:585:VAL:HG23	2.18	0.44
2:B:646:TYR:O	2:B:647:ASP:C	2.60	0.44
3:C:115:THR:HG22	3:C:116:LYS:N	2.29	0.44
1:D:7:ALA:HA	1:D:10:GLU:HB2	2.00	0.44
1:D:37:ILE:HG21	1:D:45:TYR:HB3	1.99	0.44
1:D:1004:ILE:HG23	1:D:1029:TYR:HE1	1.83	0.44
1:D:1101:ALA:O	1:D:1104:ARG:N	2.45	0.44
1:D:1149:TYR:CD2	1:D:1182:LEU:HD11	2.53	0.44
1:D:1276:LEU:HG	1:D:1276:LEU:H	1.54	0.44
1:D:1294:TRP:HA	1:D:1297:ALA:HB2	1.99	0.44
1:D:1314:ASP:OD1	1:D:1314:ASP:C	2.61	0.44
1:D:1365:GLY:HA2	1:D:1369:GLU:HB2	2.00	0.44
1:D:1460:ALA:O	1:D:1494:PRO:HG2	2.18	0.44
2:E:205:LEU:HA	2:E:208:MET:HG3	1.99	0.44
2:E:229:ILE:N	2:E:230:PRO:HD2	2.33	0.44
2:E:232:LEU:HB3	2:E:233:GLN:NE2	2.33	0.44
2:E:309:MET:HB2	2:E:379:LEU:HD22	1.99	0.44
2:E:331:ALA:HB2	2:E:395:TYR:CE2	2.53	0.44
2:E:399:VAL:O	2:E:403:SER:OG	2.31	0.44
2:E:651:GLN:O	2:E:652:LEU:HB2	2.18	0.44
1:A:289:UNK:C	1:A:331:UNK:HA	2.48	0.44
1:A:529:MET:HB3	1:A:552:LEU:CB	2.40	0.44
1:A:797:UNK:HA	1:A:834:UNK:CB	2.48	0.44
1:A:902:UNK:O	1:A:903:UNK:C	2.66	0.44
1:A:1149:TYR:CD2	1:A:1182:LEU:HD11	2.53	0.44
1:A:1191:VAL:HG21	1:A:1203:CYS:CB	2.47	0.44
1:A:1192:MET:O	1:A:1193:THR:HB	2.18	0.44
1:A:1220:TYR:O	1:A:1221:ILE:C	2.60	0.44
1:A:1274:ARG:NH1	1:A:1274:ARG:HG2	2.33	0.44
1:A:1459:PHE:HE2	1:A:1540:MET:SD	2.40	0.44
2:B:121:ILE:HD12	2:B:170:ILE:HD12	1.99	0.44
1:D:44:TRP:CD1	2:E:717:PRO:HD3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:58:ILE:HD13	2:E:720:TYR:CE1	2.53	0.44
1:D:102:TRP:CD1	1:D:105:LEU:HD12	2.53	0.44
1:D:106:TYR:CE2	2:E:552:ARG:NH1	2.86	0.44
1:D:430:LEU:CD2	1:D:602:ILE:HD12	2.47	0.44
1:D:712:UNK:O	1:D:716:UNK:N	2.51	0.44
1:D:1011:MET:HE3	1:D:1026:TRP:CZ2	2.53	0.44
1:D:1325:GLN:H	1:D:1325:GLN:HG2	1.43	0.44
1:D:1377:GLN:N	1:D:1377:GLN:CD	2.74	0.44
1:D:1509:ILE:O	1:D:1510:LEU:C	2.61	0.44
1:D:1599:HIS:O	1:D:1600:ASP:C	2.61	0.44
2:E:74:ILE:O	2:E:74:ILE:HG13	2.16	0.44
2:E:483:VAL:CG1	2:E:487:GLN:HE22	2.31	0.44
3:F:17:THR:HA	3:F:40:TYR:HE2	1.82	0.44
3:F:93:VAL:CG2	3:F:145:MET:HE2	2.48	0.44
1:A:38:GLN:HG2	1:A:48:TYR:HE1	1.83	0.43
1:A:93:THR:O	1:A:94:THR:C	2.60	0.43
1:A:138:LYS:O	1:A:142:LYS:HB3	2.18	0.43
1:A:531:TYR:O	1:A:565:TYR:CE2	2.70	0.43
1:A:565:TYR:CE1	1:A:570:SER:HA	2.53	0.43
1:A:1082:ILE:C	1:A:1084:PHE:H	2.26	0.43
1:A:1172:GLU:CA	1:A:1175:VAL:HG22	2.41	0.43
1:A:1221:ILE:H	1:A:1221:ILE:HD13	1.83	0.43
1:A:1227:LEU:C	1:A:1229:ASP:N	2.76	0.43
1:A:1368:TYR:HB3	3:C:45:MET:H	1.82	0.43
1:A:1370:ARG:HH21	3:C:44:VAL:CG1	2.27	0.43
1:A:1415:LEU:HD11	1:A:1418:HIS:CD2	2.52	0.43
1:A:1426:VAL:CG1	1:A:1430:ILE:HD11	2.48	0.43
1:A:1474:LYS:NZ	1:A:1476:PRO:O	2.41	0.43
1:A:1484:VAL:HG12	1:A:1486:HIS:C	2.43	0.43
3:C:23:TYR:HB2	3:C:165:LEU:CD2	2.48	0.43
3:C:155:LEU:HD23	3:C:155:LEU:HA	1.60	0.43
1:D:13:GLY:CA	1:D:66:ILE:HD13	2.48	0.43
1:D:60:PRO:C	1:D:62:SER:N	2.74	0.43
1:D:138:LYS:HA	1:D:138:LYS:HD3	1.67	0.43
1:D:299:UNK:O	1:D:301:UNK:N	2.50	0.43
1:D:450:MET:HG2	1:D:509:PHE:CZ	2.53	0.43
1:D:452:VAL:O	1:D:459:THR:HA	2.18	0.43
1:D:529:MET:CB	1:D:552:LEU:HB2	2.39	0.43
1:D:965:LEU:HD23	1:D:968:PHE:HB3	2.00	0.43
1:D:1164:HIS:HB3	1:D:1167:ILE:HB	2.00	0.43
1:D:1192:MET:O	1:D:1193:THR:HB	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1221:ILE:HD13	1:D:1221:ILE:H	1.83	0.43
1:D:1236:ASN:HA	1:D:1238:THR:HG23	1.99	0.43
1:D:1348:TYR:HB2	1:D:1405:TYR:O	2.18	0.43
1:D:1430:ILE:C	1:D:1432:ASN:OD1	2.60	0.43
1:D:1479:LEU:C	1:D:1481:TRP:H	2.26	0.43
1:D:1515:GLN:OE1	1:D:1516:TYR:CD2	2.71	0.43
1:D:1597:PRO:O	1:D:1598:PHE:C	2.58	0.43
2:E:420:LEU:HD21	2:E:459:CYS:SG	2.58	0.43
2:E:476:ASP:O	2:E:477:PHE:C	2.61	0.43
2:E:536:LEU:HD21	2:E:697:ARG:CZ	2.47	0.43
2:E:702:GLU:C	2:E:704:ILE:H	2.26	0.43
3:F:38:ASP:HA	3:F:40:TYR:CE1	2.53	0.43
1:A:38:GLN:H	1:A:47:GLY:HA3	1.83	0.43
1:A:123:ASP:O	1:A:127:TRP:CG	2.71	0.43
1:A:444:ARG:NH1	1:A:511:PHE:HB3	2.33	0.43
1:A:453:CYS:O	1:A:506:HIS:N	2.33	0.43
1:A:551:VAL:O	1:A:595:SER:HA	2.19	0.43
1:A:600:PHE:CE2	1:A:602:ILE:HD11	2.53	0.43
1:A:712:UNK:O	1:A:716:UNK:N	2.51	0.43
1:A:934:UNK:C	1:A:936:UNK:N	2.79	0.43
1:A:969:LEU:HD13	1:A:969:LEU:HA	1.87	0.43
1:A:990:MET:H	1:A:990:MET:HG2	1.23	0.43
1:A:1008:ALA:O	1:A:1009:GLU:C	2.60	0.43
1:A:1095:MET:O	1:A:1102:GLU:HG3	2.18	0.43
1:A:1281:TYR:HA	1:A:1284:ILE:CD1	2.48	0.43
1:A:1348:TYR:HB2	1:A:1405:TYR:O	2.18	0.43
1:A:1415:LEU:HD13	1:A:1435:LYS:N	2.33	0.43
1:A:1440:GLN:HA	1:A:1471:THR:OG1	2.18	0.43
2:B:420:LEU:HD13	2:B:460:ILE:HG22	2.00	0.43
3:C:11:ASP:HA	3:C:97:TRP:HZ2	1.84	0.43
3:C:58:THR:HB	3:C:64:TYR:CE2	2.53	0.43
1:D:33:ASP:O	1:D:35:VAL:HG13	2.18	0.43
1:D:38:GLN:H	1:D:47:GLY:HA3	1.83	0.43
1:D:289:UNK:C	1:D:331:UNK:HA	2.48	0.43
1:D:453:CYS:HA	1:D:459:THR:HA	2.00	0.43
1:D:1300:LEU:HA	1:D:1300:LEU:HD12	1.36	0.43
1:D:1367:GLU:H	1:D:1367:GLU:HG2	1.45	0.43
1:D:1415:LEU:HD13	1:D:1435:LYS:N	2.33	0.43
1:D:1534:ILE:O	1:D:1535:VAL:C	2.56	0.43
1:D:1577:ILE:HG22	1:D:1606:PHE:CE1	2.53	0.43
1:D:1586:ILE:O	1:D:1587:HIS:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1586:ILE:O	1:D:1589:LYS:HD2	2.18	0.43
2:E:202:LEU:HB3	2:E:242:TYR:HB3	2.00	0.43
2:E:280:ILE:HG13	2:E:281:ARG:N	2.32	0.43
2:E:534:LEU:HD12	2:E:537:LYS:HB3	1.99	0.43
2:E:577:CYS:SG	2:E:578:ARG:N	2.92	0.43
2:E:693:GLU:O	2:E:696:LEU:HG	2.18	0.43
3:F:21:ILE:HD13	3:F:35:THR:N	2.32	0.43
3:F:128:LYS:N	3:F:128:LYS:HD3	2.32	0.43
3:F:170:ASP:CA	3:F:174:ARG:HH12	2.30	0.43
1:A:39:GLU:CD	1:A:46:ARG:HG2	2.43	0.43
1:A:39:GLU:O	1:A:46:ARG:N	2.45	0.43
1:A:103:LYS:HE3	2:B:689:LEU:HD22	2.00	0.43
1:A:450:MET:HG2	1:A:509:PHE:CZ	2.53	0.43
1:A:529:MET:CB	1:A:552:LEU:HB2	2.39	0.43
1:A:547:HIS:H	1:A:602:ILE:H	1.67	0.43
1:A:886:UNK:O	1:A:887:UNK:C	2.66	0.43
1:A:1094:GLU:C	1:A:1096:THR:H	2.26	0.43
1:A:1125:PHE:HD2	1:A:1174:PHE:CZ	2.36	0.43
1:A:1294:TRP:HA	1:A:1297:ALA:HB2	1.99	0.43
1:A:1385:ALA:HA	1:A:1404:GLN:O	2.18	0.43
1:A:1412:GLN:C	1:A:1443:HIS:CD2	2.96	0.43
1:A:1611:MET:HB3	1:A:1611:MET:HE2	1.75	0.43
2:B:205:LEU:O	2:B:209:VAL:HG23	2.17	0.43
2:B:670:ASN:O	2:B:674:GLY:N	2.51	0.43
2:B:694:ILE:HD11	2:B:697:ARG:HE	1.83	0.43
3:C:17:THR:HA	3:C:40:TYR:HE2	1.82	0.43
3:C:84:LEU:CB	3:C:120:ARG:HB2	2.47	0.43
1:D:110:LYS:HD3	1:D:110:LYS:HA	1.15	0.43
1:D:126:GLU:OE1	1:D:127:TRP:HD1	2.01	0.43
1:D:1333:MET:SD	1:D:1430:ILE:HG23	2.58	0.43
1:D:1356:LEU:HD13	1:D:1382:PHE:HZ	1.82	0.43
1:D:1449:ARG:NH2	1:D:1462:MET:HE2	2.34	0.43
1:D:1471:THR:HB	1:D:1482:PHE:HB2	2.00	0.43
1:D:1523:PRO:C	1:D:1525:ASN:OD1	2.61	0.43
2:E:470:MET:SD	2:E:480:VAL:HG22	2.58	0.43
2:E:537:LYS:HE2	2:E:537:LYS:HB3	1.88	0.43
3:F:58:THR:HB	3:F:64:TYR:CE2	2.53	0.43
3:F:84:LEU:CB	3:F:120:ARG:HB2	2.48	0.43
3:F:100:GLU:O	3:F:103:HIS:HB3	2.18	0.43
1:A:13:GLY:CA	1:A:66:ILE:HD13	2.49	0.43
1:A:110:LYS:CA	1:A:113:ARG:HH21	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:ILE:O	1:A:156:ASN:OD1	2.36	0.43
1:A:224:UNK:N	1:A:384:UNK:O	2.52	0.43
1:A:452:VAL:O	1:A:459:THR:HA	2.18	0.43
1:A:466:VAL:O	1:A:470:ASP:HB2	2.19	0.43
1:A:491:GLU:O	1:A:493:VAL:HG22	2.19	0.43
1:A:969:LEU:HB3	1:A:1025:LEU:HD11	2.00	0.43
1:A:1098:ILE:O	1:A:1099:PRO:C	2.60	0.43
1:A:1172:GLU:HA	1:A:1175:VAL:CG2	2.41	0.43
1:A:1246:LEU:HD23	1:A:1246:LEU:HA	1.27	0.43
1:A:1303:GLU:O	1:A:1306:GLU:HB3	2.17	0.43
1:A:1345:VAL:HG22	1:A:1347:TYR:CZ	2.52	0.43
1:A:1434:TYR:HA	1:A:1437:ASN:CB	2.40	0.43
1:A:1462:MET:SD	3:C:33:ILE:HG23	2.58	0.43
1:A:1475:LEU:HA	1:A:1477:GLY:N	2.32	0.43
1:A:1523:PRO:CB	1:A:1525:ASN:HD21	2.30	0.43
1:A:1524:ILE:C	1:A:1526:PRO:HD2	2.43	0.43
1:A:1550:PHE:CD1	1:A:1555:TYR:CG	2.95	0.43
1:A:1569:LEU:O	1:A:1570:LYS:C	2.60	0.43
1:A:1609:LEU:HA	1:A:1612:LYS:CD	2.49	0.43
2:B:510:SER:OG	2:B:511:TYR:N	2.51	0.43
2:B:647:ASP:O	2:B:650:CYS:N	2.48	0.43
3:C:38:ASP:HA	3:C:40:TYR:CE1	2.53	0.43
3:C:82:PHE:CE1	3:C:112:LEU:HG	2.52	0.43
1:D:39:GLU:CD	1:D:46:ARG:HG2	2.43	0.43
1:D:152:ILE:O	1:D:156:ASN:OD1	2.36	0.43
1:D:1102:GLU:C	1:D:1104:ARG:N	2.74	0.43
1:D:1125:PHE:HD2	1:D:1174:PHE:CZ	2.36	0.43
1:D:1213:ASP:C	1:D:1215:ASN:N	2.77	0.43
1:D:1237:TYR:CG	1:D:1290:LYS:HB2	2.54	0.43
1:D:1252:LYS:HB2	1:D:1252:LYS:HZ3	1.82	0.43
1:D:1370:ARG:HD3	1:D:1371:ARG:H	1.83	0.43
1:D:1412:GLN:C	1:D:1443:HIS:CD2	2.96	0.43
1:D:1523:PRO:CB	1:D:1525:ASN:HD21	2.30	0.43
1:D:1586:ILE:HA	1:D:1589:LYS:HZ1	1.82	0.43
1:D:1601:ARG:HA	1:D:1604:GLU:OE1	2.17	0.43
2:E:209:VAL:O	2:E:253:LYS:HG3	2.18	0.43
2:E:638:LEU:HD13	2:E:641:ALA:HB3	2.00	0.43
3:F:17:THR:HG23	3:F:18:CYS:N	2.26	0.43
3:F:111:ILE:CG2	3:F:153:LYS:H	2.30	0.43
1:A:7:ALA:HB3	1:A:37:ILE:O	2.18	0.43
1:A:12:HIS:HB2	1:A:69:VAL:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:TYR:HB3	1:A:63:PHE:HD1	1.76	0.43
1:A:87:LEU:O	1:A:90:GLU:HG3	2.19	0.43
1:A:184:PHE:O	1:A:186:ALA:N	2.51	0.43
1:A:299:UNK:O	1:A:322:UNK:HA	2.19	0.43
1:A:528:ALA:C	1:A:559:MET:HE1	2.44	0.43
1:A:1004:ILE:HG23	1:A:1029:TYR:HE1	1.83	0.43
1:A:1125:PHE:N	1:A:1125:PHE:CD1	2.86	0.43
1:A:1237:TYR:CG	1:A:1290:LYS:HB2	2.54	0.43
1:A:1365:GLY:HA2	1:A:1369:GLU:HB2	2.00	0.43
1:A:1391:THR:HG22	1:A:1409:PHE:CE2	2.54	0.43
1:A:1599:HIS:O	1:A:1600:ASP:C	2.61	0.43
1:A:1601:ARG:HA	1:A:1604:GLU:OE1	2.17	0.43
3:C:93:VAL:CG2	3:C:94:ARG:HH22	2.31	0.43
3:C:137:ILE:HG23	3:C:141:GLN:OE1	2.18	0.43
1:D:82:PRO:HG2	1:D:85:ILE:HG12	2.00	0.43
1:D:127:TRP:O	1:D:130:GLN:HB2	2.18	0.43
1:D:453:CYS:HB3	1:D:457:GLY:C	2.43	0.43
1:D:457:GLY:CA	1:D:508:ARG:HE	2.32	0.43
1:D:491:GLU:O	1:D:493:VAL:HG22	2.19	0.43
1:D:512:ARG:HB3	1:D:524:GLU:O	2.17	0.43
1:D:565:TYR:CE1	1:D:570:SER:HA	2.53	0.43
1:D:969:LEU:HB3	1:D:1025:LEU:HD11	2.00	0.43
1:D:1068:PHE:HD1	1:D:1071:ARG:HG3	1.83	0.43
1:D:1087:GLY:O	1:D:1091:PRO:HG2	2.17	0.43
1:D:1133:ILE:HG12	1:D:1216:ARG:NH2	2.34	0.43
1:D:1220:TYR:HD2	1:D:1221:ILE:CD1	2.32	0.43
1:D:1303:GLU:O	1:D:1306:GLU:HB3	2.17	0.43
1:D:1391:THR:HG22	1:D:1409:PHE:CE2	2.54	0.43
1:D:1609:LEU:HA	1:D:1612:LYS:CD	2.49	0.43
2:E:198:LEU:HG	2:E:239:ILE:HD12	2.00	0.43
2:E:467:TRP:HZ3	2:E:477:PHE:CD2	2.37	0.43
2:E:548:ILE:HG23	2:E:552:ARG:NH2	2.34	0.43
3:F:82:PHE:HD1	3:F:112:LEU:HD11	1.82	0.43
3:F:94:ARG:NH1	3:F:94:ARG:CG	2.78	0.43
1:A:19:PHE:CG	1:A:60:PRO:HD3	2.52	0.43
1:A:82:PRO:HG2	1:A:85:ILE:HG12	2.00	0.43
1:A:457:GLY:CA	1:A:508:ARG:HE	2.32	0.43
1:A:501:ASP:O	1:A:505:ILE:N	2.51	0.43
1:A:550:VAL:CG2	1:A:572:ARG:HG3	2.30	0.43
1:A:1219:MET:O	1:A:1223:TYR:HD2	2.02	0.43
1:A:1229:ASP:CA	1:A:1232:LEU:HG	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1314:ASP:OD1	1:A:1314:ASP:C	2.61	0.43
1:A:1350:GLN:HE21	1:A:1400:ASN:C	2.27	0.43
1:A:1356:LEU:HD13	1:A:1382:PHE:HZ	1.82	0.43
1:A:1449:ARG:NH2	1:A:1462:MET:HE2	2.34	0.43
1:A:1474:LYS:NZ	1:A:1475:LEU:N	2.66	0.43
1:A:1514:ASN:O	1:A:1515:GLN:C	2.61	0.43
1:A:1540:MET:CB	3:C:36:VAL:HG12	2.48	0.43
2:B:188:VAL:HG22	2:B:227:GLN:HE22	1.84	0.43
2:B:356:TYR:HB2	2:B:364:HIS:O	2.18	0.43
2:B:634:ASN:HD21	2:B:636:GLU:HB3	1.84	0.43
1:D:18:ASN:HD21	2:E:535:GLU:HB3	1.74	0.43
1:D:87:LEU:O	1:D:90:GLU:HG3	2.19	0.43
1:D:90:GLU:O	1:D:94:THR:OG1	2.16	0.43
1:D:111:LYS:H	1:D:111:LYS:HG3	1.31	0.43
1:D:123:ASP:O	1:D:127:TRP:CG	2.71	0.43
1:D:184:PHE:O	1:D:186:ALA:N	2.51	0.43
1:D:538:ASP:OD1	1:D:540:THR:OG1	2.15	0.43
1:D:818:UNK:O	1:D:819:UNK:C	2.66	0.43
1:D:934:UNK:C	1:D:936:UNK:N	2.79	0.43
1:D:1082:ILE:C	1:D:1084:PHE:H	2.26	0.43
1:D:1125:PHE:N	1:D:1125:PHE:CD1	2.86	0.43
1:D:1207:LEU:O	1:D:1211:TYR:CD1	2.72	0.43
1:D:1388:MET:HB3	1:D:1389:ASN:H	1.50	0.43
1:D:1458:GLU:C	1:D:1460:ALA:H	2.27	0.43
1:D:1514:ASN:O	1:D:1515:GLN:C	2.61	0.43
2:E:38:CYS:HB3	2:E:43:LEU:HB2	2.00	0.43
2:E:51:LEU:HD22	2:E:75:LEU:HB3	2.01	0.43
2:E:159:LEU:HB3	2:E:200:ARG:HB3	2.00	0.43
2:E:166:MET:HE2	2:E:166:MET:HB3	1.88	0.43
2:E:363:ASN:ND2	2:E:366:ASN:HB3	2.34	0.43
2:E:591:LEU:CD2	2:E:598:GLU:HB2	2.49	0.43
2:E:616:VAL:HG21	2:E:669:LEU:HD22	2.01	0.43
3:F:94:ARG:NH1	3:F:94:ARG:HG2	2.17	0.43
3:F:160:LEU:H	3:F:160:LEU:HD12	1.84	0.43
1:A:7:ALA:CB	1:A:10:GLU:HB2	2.49	0.43
1:A:142:LYS:HD2	1:A:143:GLU:N	2.34	0.43
1:A:238:UNK:HA	1:A:302:UNK:N	2.34	0.43
1:A:994:MET:HE3	1:A:995:VAL:HG13	2.01	0.43
1:A:1215:ASN:O	1:A:1217:GLU:HG2	2.19	0.43
1:A:1282:GLU:O	1:A:1283:THR:C	2.59	0.43
1:A:1328:PHE:C	1:A:1331:SER:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1384:ASN:CG	1:A:1404:GLN:N	2.70	0.43
1:A:1471:THR:HB	1:A:1482:PHE:HB2	2.00	0.43
1:A:1473:TYR:HB2	1:A:1482:PHE:CE1	2.53	0.43
1:A:1515:GLN:OE1	1:A:1516:TYR:CD2	2.71	0.43
2:B:12:ILE:HG22	2:B:41:TRP:HH2	1.83	0.43
3:C:6:CYS:H	3:C:56:TRP:CD1	2.36	0.43
1:D:501:ASP:O	1:D:505:ILE:HG23	2.19	0.43
1:D:568:LEU:HG	1:D:569:PRO:O	2.19	0.43
1:D:902:UNK:O	1:D:903:UNK:C	2.66	0.43
1:D:994:MET:HE3	1:D:995:VAL:HG13	2.01	0.43
1:D:1025:LEU:O	1:D:1026:TRP:C	2.61	0.43
1:D:1094:GLU:C	1:D:1096:THR:H	2.26	0.43
1:D:1215:ASN:O	1:D:1217:GLU:HG2	2.19	0.43
1:D:1356:LEU:HD23	1:D:1361:PHE:CE2	2.49	0.43
1:D:1415:LEU:HD22	1:D:1435:LYS:CD	2.46	0.43
1:D:1415:LEU:CD1	1:D:1431:ILE:HD11	2.45	0.43
1:D:1440:GLN:O	1:D:1470:VAL:CA	2.58	0.43
2:E:125:GLY:HA2	2:E:128:LEU:HG	2.00	0.43
2:E:462:LEU:HG	2:E:506:LEU:HD13	2.01	0.43
3:F:69:PRO:HA	3:F:104:HIS:NE2	2.34	0.43
1:A:38:GLN:H	1:A:47:GLY:HA2	1.83	0.43
1:A:1020:ASN:C	1:A:1022:GLU:N	2.77	0.43
1:A:1102:GLU:C	1:A:1104:ARG:N	2.74	0.43
1:A:1132:ILE:HG22	1:A:1136:LEU:CD1	2.49	0.43
1:A:1253:TRP:HE3	1:A:1274:ARG:HG3	1.83	0.43
1:A:1286:GLY:O	1:A:1289:ASP:OD1	2.36	0.43
1:A:1315:TYR:HD1	1:A:1315:TYR:HA	1.57	0.43
1:A:1464:ILE:C	1:A:1491:THR:HG23	2.44	0.43
1:A:1479:LEU:C	1:A:1481:TRP:H	2.26	0.43
1:A:1523:PRO:O	1:A:1526:PRO:HD2	2.19	0.43
2:B:276:LEU:HA	2:B:280:ILE:HG12	2.01	0.43
2:B:442:HIS:CD2	2:B:492:LEU:HD12	2.53	0.43
2:B:467:TRP:CD1	2:B:472:ALA:HB3	2.54	0.43
3:C:46:VAL:HG12	3:C:51:VAL:H	1.84	0.43
3:C:69:PRO:HA	3:C:104:HIS:NE2	2.34	0.43
3:C:82:PHE:HD1	3:C:112:LEU:HD11	1.82	0.43
1:D:7:ALA:HB3	1:D:37:ILE:O	2.18	0.43
1:D:110:LYS:CA	1:D:113:ARG:HH21	2.32	0.43
1:D:481:TYR:CZ	1:D:484:VAL:HB	2.54	0.43
1:D:487:PRO:C	1:D:488:ARG:HD3	2.44	0.43
1:D:600:PHE:CE2	1:D:602:ILE:HD11	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:908:UNK:O	1:D:909:UNK:C	2.67	0.43
1:D:1054:LYS:O	1:D:1057:ASN:HB2	2.19	0.43
1:D:1063:ARG:O	1:D:1064:ARG:C	2.62	0.43
1:D:1227:LEU:C	1:D:1229:ASP:N	2.76	0.43
1:D:1328:PHE:C	1:D:1331:SER:H	2.27	0.43
1:D:1410:THR:HG21	3:F:26:ASN:CG	2.44	0.43
1:D:1506:ASN:ND2	1:D:1506:ASN:N	2.66	0.43
2:E:552:ARG:HG3	2:E:677:MET:SD	2.59	0.43
2:E:568:ARG:H	2:E:568:ARG:HG3	1.68	0.43
2:E:576:TYR:CD1	2:E:600:PRO:HA	2.53	0.43
2:E:640:LEU:HD23	2:E:662:TYR:HD1	1.83	0.43
2:E:652:LEU:O	2:E:654:PHE:CE2	2.72	0.43
3:F:5:LYS:N	3:F:76:ASP:OD2	2.52	0.43
1:A:128:ARG:O	1:A:131:LEU:N	2.52	0.43
1:A:1130:ASN:O	1:A:1131:GLU:C	2.60	0.43
1:A:1228:ARG:HE	1:A:1228:ARG:HB3	1.61	0.43
1:A:1281:TYR:HA	1:A:1284:ILE:CG1	2.49	0.43
1:A:1333:MET:SD	1:A:1430:ILE:HG23	2.58	0.43
1:A:1368:TYR:HD1	1:A:1368:TYR:HA	1.68	0.43
1:A:1441:ARG:NH1	1:A:1488:SER:HB3	2.34	0.43
1:A:1458:GLU:HG2	1:A:1459:PHE:H	1.84	0.43
1:A:1460:ALA:O	1:A:1494:PRO:HG2	2.18	0.43
1:A:1475:LEU:HA	1:A:1475:LEU:HD23	1.68	0.43
1:A:1475:LEU:HD11	1:A:1482:PHE:CD2	2.50	0.43
1:A:1508:LYS:HG2	1:A:1508:LYS:H	1.42	0.43
1:A:1510:LEU:C	1:A:1510:LEU:HD23	2.43	0.43
1:A:1526:PRO:HG2	1:A:1527:LEU:CG	2.49	0.43
1:A:1572:LEU:O	1:A:1573:ILE:C	2.61	0.43
2:B:396:ILE:O	2:B:400:LEU:HG	2.19	0.43
3:C:72:TYR:O	3:C:73:PRO:C	2.62	0.43
3:C:93:VAL:CG2	3:C:145:MET:HE2	2.48	0.43
1:D:187:HIS:HB3	1:D:989:TRP:CE3	2.54	0.43
1:D:224:UNK:N	1:D:384:UNK:O	2.52	0.43
1:D:501:ASP:O	1:D:505:ILE:N	2.51	0.43
1:D:1020:ASN:C	1:D:1022:GLU:N	2.77	0.43
1:D:1384:ASN:CG	1:D:1404:GLN:N	2.70	0.43
1:D:1426:VAL:CG1	1:D:1430:ILE:HD11	2.48	0.43
1:D:1441:ARG:NH1	1:D:1488:SER:HB3	2.34	0.43
1:D:1508:LYS:HG2	1:D:1508:LYS:H	1.41	0.43
2:E:12:ILE:HG22	2:E:41:TRP:HH2	1.84	0.43
2:E:424:LEU:HA	2:E:427:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:482:GLN:O	2:E:486:GLU:HG3	2.18	0.43
2:E:562:PHE:HZ	2:E:665:TRP:CE2	2.32	0.43
2:E:588:TYR:CE1	2:E:606:ASP:C	2.97	0.43
2:E:613:ILE:HG12	2:E:644:ILE:CG2	2.49	0.43
3:F:91:GLU:O	3:F:92:ASN:C	2.62	0.43
3:F:137:ILE:HG23	3:F:141:GLN:OE1	2.18	0.43
1:A:46:ARG:HA	1:A:57:GLY:O	2.19	0.43
1:A:107:VAL:CG2	2:B:551:GLN:HE21	2.32	0.43
1:A:125:MET:O	1:A:128:ARG:HB3	2.19	0.43
1:A:127:TRP:O	1:A:130:GLN:HB2	2.19	0.43
1:A:481:TYR:CZ	1:A:484:VAL:HB	2.54	0.43
1:A:607:CYS:O	1:A:608:SER:OG	2.36	0.43
1:A:955:UNK:O	1:A:956:UNK:C	2.67	0.43
1:A:1082:ILE:HG23	1:A:1083:CYS:N	2.34	0.43
1:A:1169:LYS:O	1:A:1172:GLU:HG3	2.19	0.43
1:A:1207:LEU:O	1:A:1211:TYR:CD1	2.71	0.43
1:A:1364:ARG:HG2	1:A:1365:GLY:N	2.34	0.43
1:A:1410:THR:HB	3:C:26:ASN:O	2.18	0.43
1:A:1463:TRP:CD1	1:A:1494:PRO:CG	3.02	0.43
3:C:111:ILE:CG2	3:C:153:LYS:H	2.30	0.43
1:D:19:PHE:HB2	1:D:63:PHE:HD2	1.82	0.43
1:D:99:GLY:HA2	1:D:102:TRP:CB	2.49	0.43
1:D:466:VAL:O	1:D:470:ASP:HB2	2.19	0.43
1:D:528:ALA:C	1:D:559:MET:HE1	2.44	0.43
1:D:797:UNK:HA	1:D:834:UNK:CB	2.48	0.43
1:D:886:UNK:O	1:D:887:UNK:C	2.66	0.43
1:D:1328:PHE:CA	1:D:1331:SER:H	2.32	0.43
1:D:1340:PRO:C	1:D:1342:TYR:CE1	2.97	0.43
1:D:1346:GLY:O	1:D:1405:TYR:O	2.36	0.43
1:D:1504:THR:HG23	1:D:1504:THR:H	1.58	0.43
1:D:1543:PHE:O	1:D:1544:ALA:C	2.60	0.43
2:E:540:ILE:HA	2:E:543:GLU:CD	2.43	0.43
3:F:10:GLY:HA2	3:F:81:CYS:H	1.84	0.43
3:F:14:VAL:HG13	3:F:115:THR:OG1	2.19	0.43
1:A:187:HIS:HB3	1:A:989:TRP:CE3	2.54	0.42
1:A:568:LEU:HG	1:A:569:PRO:O	2.19	0.42
1:A:1220:TYR:HD2	1:A:1221:ILE:CD1	2.32	0.42
1:A:1418:HIS:O	1:A:1422:LYS:N	2.38	0.42
1:A:1480:ARG:O	1:A:1481:TRP:HB3	2.19	0.42
1:A:1555:TYR:CD2	1:A:1555:TYR:C	2.97	0.42
1:A:1586:ILE:O	1:A:1589:LYS:HD2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4:TRP:CB	2:E:722:PHE:HA	2.49	0.42
1:D:38:GLN:H	1:D:47:GLY:HA2	1.83	0.42
1:D:142:LYS:HD2	1:D:143:GLU:N	2.34	0.42
1:D:157:LYS:CD	1:D:158:ILE:HG23	2.49	0.42
1:D:992:MET:O	1:D:995:VAL:HG22	2.19	0.42
1:D:1208:LEU:HD12	1:D:1208:LEU:HA	1.79	0.42
1:D:1219:MET:O	1:D:1223:TYR:HD2	2.02	0.42
1:D:1253:TRP:HE3	1:D:1274:ARG:HG3	1.83	0.42
1:D:1286:GLY:O	1:D:1289:ASP:OD1	2.36	0.42
1:D:1350:GLN:NE2	1:D:1400:ASN:HA	2.34	0.42
1:D:1411:VAL:HG11	1:D:1469:PHE:CD2	2.54	0.42
1:D:1444:TYR:HB3	1:D:1467:THR:C	2.44	0.42
1:D:1463:TRP:CD1	1:D:1494:PRO:CG	3.02	0.42
1:D:1467:THR:CA	1:D:1488:SER:O	2.43	0.42
1:D:1567:THR:O	1:D:1568:HIS:C	2.62	0.42
2:E:215:LEU:HD23	2:E:215:LEU:HA	1.92	0.42
2:E:305:LEU:HD22	2:E:379:LEU:HD11	2.01	0.42
2:E:458:ILE:HD13	2:E:503:LYS:CG	2.48	0.42
2:E:549:LYS:HG2	2:E:677:MET:SD	2.59	0.42
2:E:586:LEU:CB	2:E:588:TYR:HD1	2.32	0.42
2:E:660:HIS:CG	2:E:661:GLU:N	2.85	0.42
1:A:102:TRP:HD1	1:A:105:LEU:HD12	1.85	0.42
1:A:452:VAL:HA	1:A:507:LEU:HD23	2.01	0.42
1:A:454:ALA:CB	1:A:458:LYS:HB3	2.36	0.42
1:A:487:PRO:C	1:A:488:ARG:HD3	2.44	0.42
1:A:908:UNK:O	1:A:909:UNK:C	2.67	0.42
1:A:988:ASP:C	1:A:990:MET:H	2.27	0.42
1:A:1047:PHE:O	1:A:1052:TYR:N	2.47	0.42
1:A:1172:GLU:C	1:A:1172:GLU:CD	2.87	0.42
1:A:1315:TYR:CD2	1:D:1333:MET:HG3	2.53	0.42
1:A:1347:TYR:HB3	1:A:1352:PHE:CG	2.54	0.42
1:A:1437:ASN:C	1:A:1475:LEU:O	2.60	0.42
1:A:1481:TRP:CE3	1:A:1481:TRP:N	2.87	0.42
1:A:1577:ILE:HG22	1:A:1606:PHE:CE1	2.53	0.42
1:A:1586:ILE:HA	1:A:1589:LYS:HZ1	1.83	0.42
2:B:610:VAL:HG13	2:B:672:LEU:HD13	2.01	0.42
3:C:35:THR:HG23	3:C:40:TYR:CZ	2.54	0.42
1:D:6:LYS:HB2	2:E:724:TYR:CZ	2.53	0.42
1:D:46:ARG:HA	1:D:57:GLY:O	2.19	0.42
1:D:120:MET:HG2	1:D:120:MET:H	1.62	0.42
1:D:453:CYS:O	1:D:506:HIS:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:508:ARG:HA	1:D:530:SER:O	2.19	0.42
1:D:1070:ILE:O	1:D:1073:MET:HE3	2.19	0.42
1:D:1195:GLU:HA	1:D:1200:ARG:HD2	2.01	0.42
1:D:1352:PHE:HA	1:D:1404:GLN:NE2	2.19	0.42
1:D:1394:PRO:HG2	1:D:1399:LYS:CG	2.49	0.42
1:D:1480:ARG:O	1:D:1481:TRP:HB3	2.19	0.42
1:D:1595:LEU:O	1:D:1596:ARG:C	2.62	0.42
1:D:1604:GLU:O	1:D:1606:PHE:N	2.52	0.42
2:E:458:ILE:HG21	2:E:503:LYS:HG2	1.99	0.42
2:E:541:GLN:O	2:E:544:ILE:HB	2.19	0.42
3:F:11:ASP:HA	3:F:97:TRP:HZ2	1.84	0.42
3:F:35:THR:HG23	3:F:40:TYR:CZ	2.54	0.42
1:A:19:PHE:HB2	1:A:63:PHE:CD2	2.54	0.42
1:A:501:ASP:O	1:A:505:ILE:HG23	2.19	0.42
1:A:554:GLY:N	1:A:559:MET:SD	2.90	0.42
1:A:953:UNK:O	1:A:954:UNK:C	2.67	0.42
1:A:1068:PHE:HD1	1:A:1071:ARG:HG3	1.83	0.42
1:A:1133:ILE:HG12	1:A:1216:ARG:NH2	2.34	0.42
1:A:1321:ASN:O	1:A:1325:GLN:HG2	2.19	0.42
1:A:1415:LEU:CD1	1:A:1431:ILE:HD11	2.45	0.42
1:A:1505:ALA:HA	1:A:1508:LYS:HG3	2.01	0.42
1:A:1540:MET:HB3	1:A:1545:LYS:CE	2.49	0.42
1:A:1568:HIS:O	1:A:1569:LEU:C	2.63	0.42
2:B:97:MET:HE1	2:B:154:MET:HB2	2.01	0.42
2:B:297:LEU:O	2:B:300:LEU:HG	2.19	0.42
3:C:5:LYS:N	3:C:76:ASP:OD2	2.52	0.42
3:C:91:GLU:O	3:C:92:ASN:C	2.62	0.42
3:C:121:ASP:HA	3:C:126:ILE:CD1	2.50	0.42
1:D:7:ALA:CB	1:D:10:GLU:HB2	2.49	0.42
1:D:127:TRP:HA	1:D:130:GLN:OE1	2.20	0.42
1:D:299:UNK:O	1:D:322:UNK:HA	2.19	0.42
1:D:571:TYR:CD2	1:D:573:HIS:N	2.83	0.42
1:D:1345:VAL:HG22	1:D:1347:TYR:CZ	2.53	0.42
1:D:1350:GLN:HA	1:D:1357:ARG:CD	2.40	0.42
1:D:1386:GLU:O	1:D:1406:ILE:N	2.52	0.42
1:D:1440:GLN:HA	1:D:1471:THR:OG1	2.18	0.42
1:D:1475:LEU:HA	1:D:1475:LEU:HD23	1.68	0.42
1:D:1481:TRP:CE3	1:D:1481:TRP:N	2.87	0.42
1:D:1484:VAL:HG12	1:D:1486:HIS:C	2.43	0.42
1:D:1508:LYS:O	1:D:1509:ILE:C	2.63	0.42
1:D:1524:ILE:C	1:D:1526:PRO:HD2	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1578:PRO:HD2	1:D:1579:PHE:CD2	2.55	0.42
1:D:1601:ARG:HD3	1:D:1601:ARG:C	2.45	0.42
2:E:204:ILE:O	2:E:208:MET:HG3	2.20	0.42
2:E:575:TRP:CB	2:E:590:ASP:HA	2.48	0.42
2:E:652:LEU:CG	2:E:653:ASN:H	2.29	0.42
3:F:91:GLU:HA	3:F:94:ARG:NH1	2.34	0.42
1:A:1126:LYS:O	1:A:1127:LYS:C	2.62	0.42
1:A:1192:MET:HE1	1:A:1200:ARG:NH1	2.29	0.42
1:A:1246:LEU:O	1:A:1247:HIS:C	2.60	0.42
1:A:1322:LEU:CD1	1:D:1326:ALA:HB2	2.50	0.42
1:A:1351:GLY:N	1:A:1402:PRO:O	2.52	0.42
1:A:1382:PHE:CE1	1:A:1404:GLN:NE2	2.87	0.42
1:A:1411:VAL:HG11	1:A:1469:PHE:CD2	2.54	0.42
1:A:1510:LEU:O	1:A:1514:ASN:HB2	2.19	0.42
1:A:1604:GLU:O	1:A:1606:PHE:N	2.52	0.42
3:C:78:PHE:O	3:C:80:ILE:HG13	2.19	0.42
3:C:94:ARG:NH1	3:C:94:ARG:HG2	2.17	0.42
3:C:164:GLY:O	3:C:168:VAL:N	2.32	0.42
1:D:17:TYR:O	1:D:63:PHE:HB3	2.20	0.42
1:D:19:PHE:HB2	1:D:63:PHE:CD2	2.54	0.42
1:D:25:PRO:O	1:D:58:ILE:HG12	2.19	0.42
1:D:38:GLN:OE1	1:D:38:GLN:HA	2.19	0.42
1:D:41:CYS:SG	2:E:717:PRO:HB3	2.59	0.42
1:D:125:MET:O	1:D:128:ARG:HB3	2.19	0.42
1:D:424:ASN:HA	1:D:607:CYS:HB2	2.01	0.42
1:D:444:ARG:NH1	1:D:511:PHE:HB3	2.33	0.42
1:D:551:VAL:O	1:D:595:SER:HA	2.18	0.42
1:D:1172:GLU:C	1:D:1172:GLU:CD	2.87	0.42
1:D:1321:ASN:O	1:D:1325:GLN:HG2	2.19	0.42
1:D:1347:TYR:HB3	1:D:1352:PHE:CG	2.54	0.42
1:D:1368:TYR:HD2	3:F:45:MET:SD	2.43	0.42
1:D:1474:LYS:NZ	1:D:1475:LEU:N	2.67	0.42
1:D:1540:MET:HB3	1:D:1545:LYS:CE	2.49	0.42
1:D:1578:PRO:CA	1:D:1606:PHE:HZ	2.33	0.42
1:D:1604:GLU:O	1:D:1605:CYS:C	2.62	0.42
2:E:8:VAL:HG13	2:E:71:ASN:HD22	1.84	0.42
2:E:208:MET:SD	2:E:209:VAL:HG13	2.60	0.42
2:E:547:LEU:HG	2:E:547:LEU:H	1.53	0.42
3:F:111:ILE:CG2	3:F:112:LEU:H	2.25	0.42
3:F:151:ALA:HB1	3:F:153:LYS:O	2.18	0.42
1:A:105:LEU:O	1:A:113:ARG:NH2	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:TRP:HA	1:A:130:GLN:OE1	2.20	0.42
1:A:157:LYS:CD	1:A:158:ILE:HG23	2.49	0.42
1:A:443:GLN:HB3	1:A:485:LYS:HB2	2.02	0.42
1:A:550:VAL:HG21	1:A:575:VAL:O	2.20	0.42
1:A:992:MET:O	1:A:995:VAL:HG22	2.19	0.42
1:A:994:MET:HB3	1:A:994:MET:HE3	1.71	0.42
1:A:1378:LEU:HD13	1:A:1378:LEU:HA	1.76	0.42
1:A:1442:PHE:CD2	1:A:1469:PHE:O	2.72	0.42
1:A:1458:GLU:C	1:A:1460:ALA:H	2.27	0.42
1:A:1462:MET:HB2	1:A:1462:MET:HE3	1.69	0.42
1:A:1539:VAL:O	1:A:1540:MET:HE2	2.19	0.42
1:A:1567:THR:O	1:A:1568:HIS:C	2.62	0.42
1:A:1578:PRO:HD2	1:A:1579:PHE:CD2	2.55	0.42
1:A:1609:LEU:CD1	1:A:1612:LYS:HD2	2.49	0.42
2:B:585:VAL:HG11	2:B:607:LYS:HZ3	1.84	0.42
3:C:77:VAL:HG12	3:C:78:PHE:H	1.83	0.42
3:C:83:SER:O	3:C:89:SER:OG	2.17	0.42
3:C:145:MET:CE	3:C:149:ILE:HG12	2.50	0.42
3:C:151:ALA:HB1	3:C:153:LYS:O	2.18	0.42
3:C:168:VAL:C	3:C:170:ASP:N	2.76	0.42
1:D:30:GLN:NE2	2:E:536:LEU:HD11	2.28	0.42
1:D:38:GLN:HG2	1:D:48:TYR:HE1	1.83	0.42
1:D:101:ILE:HG13	1:D:105:LEU:HD21	2.02	0.42
1:D:128:ARG:O	1:D:131:LEU:N	2.52	0.42
1:D:550:VAL:HG21	1:D:575:VAL:O	2.20	0.42
1:D:1132:ILE:HG22	1:D:1136:LEU:CD1	2.49	0.42
1:D:1221:ILE:HG22	1:D:1225:TYR:CE2	2.54	0.42
1:D:1347:TYR:HD2	1:D:1359:LYS:C	2.26	0.42
1:D:1379:MET:HE2	1:D:1379:MET:HB2	1.88	0.42
1:D:1442:PHE:CD2	1:D:1469:PHE:O	2.72	0.42
2:E:322:ASP:HA	2:E:325:PHE:HB2	2.02	0.42
2:E:616:VAL:HG13	2:E:643:SER:O	2.19	0.42
2:E:681:LEU:HD12	2:E:681:LEU:HA	1.68	0.42
2:E:683:ARG:O	2:E:684:ASN:C	2.60	0.42
3:F:78:PHE:O	3:F:80:ILE:HG13	2.19	0.42
1:A:101:ILE:HG13	1:A:105:LEU:HD21	2.02	0.42
1:A:1070:ILE:O	1:A:1073:MET:HE3	2.19	0.42
1:A:1138:HIS:O	1:A:1139:GLU:C	2.62	0.42
1:A:1238:THR:O	1:A:1241:ALA:HB3	2.20	0.42
1:A:1346:GLY:O	1:A:1405:TYR:O	2.36	0.42
1:A:1350:GLN:NE2	1:A:1400:ASN:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1364:ARG:O	1:A:1369:GLU:OE1	2.37	0.42
1:A:1377:GLN:N	1:A:1377:GLN:CD	2.74	0.42
1:A:1377:GLN:C	1:A:1380:THR:HB	2.42	0.42
1:A:1508:LYS:O	1:A:1509:ILE:C	2.63	0.42
2:B:216:TYR:HE1	2:B:250:LEU:HG	1.85	0.42
2:B:313:MET:HE3	2:B:371:PHE:CD2	2.54	0.42
3:C:20:LEU:H	3:C:20:LEU:HG	1.67	0.42
1:D:350:UNK:HA	1:D:481:TYR:HE1	1.82	0.42
1:D:448:VAL:HG22	1:D:511:PHE:CE1	2.54	0.42
1:D:1156:ILE:HG13	1:D:1156:ILE:H	1.31	0.42
1:D:1539:VAL:O	1:D:1540:MET:HE2	2.19	0.42
1:D:1557:ARG:HG3	1:D:1558:ASP:N	2.35	0.42
2:E:188:VAL:HG21	2:E:205:LEU:CD2	2.46	0.42
2:E:330:ILE:HG23	2:E:395:TYR:HE2	1.85	0.42
3:F:46:VAL:HG12	3:F:51:VAL:H	1.84	0.42
3:F:72:TYR:O	3:F:73:PRO:C	2.62	0.42
1:A:7:ALA:HA	1:A:10:GLU:HB2	2.00	0.42
1:A:99:GLY:HA2	1:A:102:TRP:CB	2.49	0.42
1:A:757:UNK:O	1:A:761:UNK:N	2.53	0.42
1:A:935:UNK:C	1:A:937:UNK:N	2.83	0.42
1:A:1054:LYS:O	1:A:1057:ASN:HB2	2.19	0.42
1:A:1321:ASN:HA	1:A:1324:GLN:OE1	2.20	0.42
1:A:1328:PHE:CA	1:A:1331:SER:H	2.32	0.42
1:A:1330:GLU:HA	1:A:1334:LYS:CD	2.50	0.42
1:A:1340:PRO:C	1:A:1342:TYR:CE1	2.97	0.42
1:A:1370:ARG:HG3	1:A:1373:ASP:N	2.35	0.42
2:B:448:HIS:CD2	2:B:454:GLU:HG3	2.55	0.42
2:B:659:LYS:HZ3	2:B:662:TYR:HD2	1.67	0.42
3:C:14:VAL:HG13	3:C:115:THR:OG1	2.19	0.42
3:C:83:SER:HA	3:C:115:THR:O	2.20	0.42
3:C:160:LEU:H	3:C:160:LEU:HD12	1.84	0.42
1:D:20:GLN:NE2	2:E:539:LYS:HZ3	2.17	0.42
1:D:105:LEU:O	1:D:113:ARG:NH2	2.51	0.42
1:D:146:GLN:CD	1:D:146:GLN:C	2.88	0.42
1:D:953:UNK:O	1:D:954:UNK:C	2.67	0.42
1:D:988:ASP:C	1:D:990:MET:H	2.27	0.42
1:D:1005:ASN:ND2	1:D:1005:ASN:H	2.12	0.42
1:D:1151:GLN:H	1:D:1151:GLN:CD	2.25	0.42
1:D:1177:LEU:O	1:D:1181:LEU:HB2	2.19	0.42
1:D:1231:HIS:NE2	1:D:1236:ASN:HB2	2.35	0.42
1:D:1238:THR:O	1:D:1241:ALA:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1239:GLU:O	1:D:1240:ALA:C	2.63	0.42
1:D:1364:ARG:HG2	1:D:1365:GLY:N	2.34	0.42
1:D:1382:PHE:CE1	1:D:1404:GLN:NE2	2.87	0.42
1:D:1418:HIS:C	1:D:1422:LYS:HG2	2.44	0.42
1:D:1464:ILE:C	1:D:1491:THR:HG23	2.44	0.42
1:D:1523:PRO:O	1:D:1526:PRO:HD2	2.19	0.42
1:D:1566:LEU:HA	1:D:1566:LEU:HD13	1.58	0.42
1:D:1573:ILE:O	1:D:1576:GLN:CB	2.49	0.42
1:D:1578:PRO:HA	1:D:1606:PHE:CZ	2.55	0.42
2:E:555:ARG:O	2:E:556:LEU:C	2.61	0.42
2:E:564:LYS:H	2:E:575:TRP:NE1	2.10	0.42
3:F:121:ASP:HA	3:F:126:ILE:CD1	2.50	0.42
3:F:166:LYS:O	3:F:167:THR:C	2.63	0.42
1:A:25:PRO:O	1:A:58:ILE:HG12	2.19	0.42
1:A:90:GLU:CD	1:A:91:VAL:N	2.78	0.42
1:A:487:PRO:O	1:A:488:ARG:HD3	2.20	0.42
1:A:527:PHE:HD1	1:A:527:PHE:HA	1.59	0.42
1:A:1063:ARG:O	1:A:1064:ARG:C	2.62	0.42
1:A:1067:GLY:O	1:A:1070:ILE:HB	2.20	0.42
1:A:1071:ARG:NH1	1:A:1106:ALA:HB3	2.26	0.42
1:A:1174:PHE:O	1:A:1178:VAL:HG23	2.20	0.42
1:A:1231:HIS:CG	1:A:1236:ASN:HB2	2.54	0.42
1:A:1274:ARG:HH11	1:A:1274:ARG:HG2	1.84	0.42
1:A:1304:LEU:HD12	1:A:1304:LEU:HA	1.25	0.42
1:A:1320:GLN:OE1	1:A:1320:GLN:CA	2.64	0.42
1:A:1415:LEU:HD22	1:A:1435:LYS:CD	2.46	0.42
1:A:1573:ILE:C	1:A:1576:GLN:HB3	2.39	0.42
1:A:1595:LEU:O	1:A:1596:ARG:C	2.62	0.42
1:D:12:HIS:HB2	1:D:69:VAL:HB	2.01	0.42
1:D:554:GLY:N	1:D:559:MET:SD	2.90	0.42
1:D:757:UNK:O	1:D:761:UNK:N	2.53	0.42
1:D:1047:PHE:O	1:D:1052:TYR:N	2.47	0.42
1:D:1231:HIS:CG	1:D:1236:ASN:HB2	2.54	0.42
1:D:1350:GLN:HE21	1:D:1400:ASN:C	2.27	0.42
1:D:1352:PHE:N	1:D:1352:PHE:CD2	2.88	0.42
1:D:1444:TYR:HE1	3:F:27:ALA:HB1	1.84	0.42
1:D:1480:ARG:HB2	1:D:1481:TRP:HE3	1.85	0.42
1:D:1483:GLU:HG3	1:D:1484:VAL:O	2.20	0.42
2:E:645:LEU:HD23	2:E:645:LEU:HA	1.71	0.42
2:E:656:ALA:O	2:E:658:ASP:N	2.52	0.42
2:E:670:ASN:O	2:E:673:LEU:N	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:23:TYR:HB2	3:F:165:LEU:CD2	2.48	0.42
1:A:424:ASN:HA	1:A:607:CYS:HB2	2.01	0.42
1:A:890:UNK:O	1:A:891:UNK:C	2.67	0.42
1:A:965:LEU:HD23	1:A:968:PHE:HB3	2.00	0.42
1:A:1127:LYS:HA	1:A:1130:ASN:HB2	2.02	0.42
1:A:1337:ARG:HH12	1:A:1430:ILE:CA	2.31	0.42
1:A:1347:TYR:HD2	1:A:1359:LYS:C	2.26	0.42
1:A:1578:PRO:HA	1:A:1606:PHE:CZ	2.55	0.42
2:B:88:LEU:HD22	2:B:107:LEU:HB2	2.02	0.42
2:B:139:LEU:HD23	2:B:139:LEU:HA	1.94	0.42
2:B:200:ARG:O	2:B:204:ILE:HG13	2.20	0.42
2:B:564:LYS:HE2	2:B:565:LEU:HG	2.02	0.42
3:C:91:GLU:HA	3:C:94:ARG:NH1	2.34	0.42
3:C:93:VAL:HG11	3:C:112:LEU:HD21	2.02	0.42
1:D:99:GLY:HA2	1:D:102:TRP:HB2	2.02	0.42
1:D:106:TYR:HE2	2:E:552:ARG:HH12	1.67	0.42
1:D:1169:LYS:O	1:D:1172:GLU:HG3	2.19	0.42
1:D:1519:ASP:O	1:D:1522:LEU:HD12	2.20	0.42
1:D:1540:MET:HB3	1:D:1545:LYS:CD	2.50	0.42
1:D:1568:HIS:O	1:D:1569:LEU:C	2.63	0.42
2:E:12:ILE:HG22	2:E:41:TRP:CH2	2.55	0.42
3:F:53:LEU:HG	3:F:53:LEU:H	1.72	0.42
1:A:17:TYR:O	1:A:63:PHE:HB3	2.19	0.42
1:A:182:SER:CA	1:A:185:HIS:HD2	2.30	0.42
1:A:664:ASP:O	1:A:668:TYR:HD1	2.03	0.42
1:A:797:UNK:O	1:A:798:UNK:C	2.68	0.42
1:A:1221:ILE:HG22	1:A:1225:TYR:CE2	2.54	0.42
1:A:1235:ASP:HB3	1:A:1237:TYR:CE2	2.55	0.42
1:A:1352:PHE:N	1:A:1352:PHE:CD2	2.88	0.42
1:A:1352:PHE:HZ	1:A:1405:TYR:N	2.18	0.42
1:A:1428:ASP:CB	1:A:1431:ILE:HG22	2.42	0.42
1:A:1474:LYS:NZ	1:A:1475:LEU:C	2.78	0.42
1:A:1578:PRO:HA	1:A:1606:PHE:HZ	1.85	0.42
2:B:12:ILE:HD13	2:B:75:LEU:HB2	2.01	0.42
2:B:540:ILE:O	2:B:544:ILE:HG12	2.20	0.42
3:C:10:GLY:HA2	3:C:81:CYS:H	1.84	0.42
3:C:93:VAL:H	3:C:93:VAL:HG22	1.57	0.42
1:D:63:PHE:HE1	2:E:711:PRO:O	2.03	0.42
1:D:67:LYS:CE	2:E:704:ILE:HD11	2.49	0.42
1:D:329:UNK:O	1:D:333:UNK:N	2.52	0.42
1:D:730:UNK:C	1:D:732:UNK:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1039:GLN:C	1:D:1041:SER:N	2.77	0.42
1:D:1041:SER:O	1:D:1042:LEU:HG	2.19	0.42
1:D:1047:PHE:O	1:D:1051:LYS:N	2.45	0.42
1:D:1067:GLY:O	1:D:1070:ILE:HB	2.20	0.42
1:D:1127:LYS:HA	1:D:1130:ASN:HB2	2.02	0.42
1:D:1229:ASP:CA	1:D:1232:LEU:HG	2.44	0.42
1:D:1244:LEU:CD2	1:D:1283:THR:HB	2.47	0.42
1:D:1274:ARG:HH11	1:D:1274:ARG:HG2	1.84	0.42
1:D:1364:ARG:O	1:D:1369:GLU:OE1	2.37	0.42
1:D:1370:ARG:HG3	1:D:1373:ASP:N	2.35	0.42
2:E:467:TRP:CD1	2:E:472:ALA:HB3	2.55	0.42
2:E:546:GLU:HA	2:E:549:LYS:HD2	2.02	0.42
2:E:551:GLN:NE2	2:E:555:ARG:CD	2.78	0.42
2:E:563:ARG:O	2:E:654:PHE:HA	2.20	0.42
2:E:585:VAL:CG1	2:E:607:LYS:HB2	2.50	0.42
2:E:691:SER:C	2:E:695:LYS:HE2	2.45	0.42
3:F:32:TYR:O	3:F:32:TYR:CG	2.72	0.42
3:F:44:VAL:CG1	3:F:45:MET:N	2.83	0.42
3:F:83:SER:HA	3:F:115:THR:O	2.20	0.42
3:F:145:MET:CE	3:F:149:ILE:HG12	2.50	0.42
1:A:49:LEU:HG	1:A:51:LYS:HB2	2.02	0.41
1:A:329:UNK:O	1:A:333:UNK:N	2.52	0.41
1:A:424:ASN:C	1:A:426:ILE:N	2.78	0.41
1:A:452:VAL:H	1:A:474:ASN:HD22	1.68	0.41
1:A:453:CYS:HA	1:A:459:THR:HA	2.00	0.41
1:A:466:VAL:HB	1:A:470:ASP:HB2	2.01	0.41
1:A:1097:LEU:HA	1:A:1097:LEU:HD23	1.83	0.41
1:A:1352:PHE:CE1	1:A:1404:GLN:HG2	2.55	0.41
1:A:1367:GLU:H	1:A:1367:GLU:HG2	1.45	0.41
1:A:1418:HIS:C	1:A:1422:LYS:HG2	2.44	0.41
1:A:1495:LEU:C	1:A:1498:ALA:H	2.27	0.41
1:A:1498:ALA:O	1:A:1499:ILE:C	2.63	0.41
1:A:1503:SER:HG	1:A:1504:THR:H	1.67	0.41
1:A:1543:PHE:HB2	1:A:1547:GLU:OE2	2.20	0.41
3:C:32:TYR:O	3:C:32:TYR:CG	2.72	0.41
1:D:37:ILE:HD11	1:D:64:ILE:HG21	2.02	0.41
1:D:102:TRP:HA	1:D:105:LEU:CD1	2.50	0.41
1:D:238:UNK:HA	1:D:302:UNK:N	2.34	0.41
1:D:424:ASN:C	1:D:426:ILE:N	2.78	0.41
1:D:452:VAL:H	1:D:474:ASN:HD22	1.68	0.41
1:D:502:MET:HA	1:D:505:ILE:CG1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1071:ARG:NH2	1:D:1074:TRP:CD2	2.81	0.41
1:D:1246:LEU:O	1:D:1247:HIS:C	2.60	0.41
1:D:1281:TYR:HA	1:D:1284:ILE:CG1	2.49	0.41
1:D:1288:PHE:CD2	1:D:1296:GLU:HG3	2.55	0.41
1:D:1351:GLY:N	1:D:1402:PRO:O	2.52	0.41
1:D:1353:PRO:HB2	1:D:1355:PHE:CE1	2.55	0.41
1:D:1377:GLN:C	1:D:1380:THR:HB	2.42	0.41
1:D:1382:PHE:HE1	1:D:1404:GLN:NE2	2.18	0.41
1:D:1388:MET:SD	1:D:1395:GLY:N	2.93	0.41
1:D:1458:GLU:HG2	1:D:1459:PHE:H	1.84	0.41
1:D:1479:LEU:HA	1:D:1479:LEU:HD12	1.41	0.41
1:D:1526:PRO:HG2	1:D:1527:LEU:CG	2.49	0.41
2:E:310:MET:HE1	2:E:375:PRO:HD3	2.02	0.41
2:E:541:GLN:HA	2:E:544:ILE:HG12	2.02	0.41
3:F:168:VAL:C	3:F:170:ASP:N	2.76	0.41
1:A:1159:GLU:OE1	1:A:1159:GLU:N	2.53	0.41
1:A:1195:GLU:HA	1:A:1200:ARG:HD2	2.01	0.41
1:A:1288:PHE:CD2	1:A:1296:GLU:HG3	2.55	0.41
1:A:1318:LEU:HD23	1:D:1329:TYR:CZ	2.55	0.41
1:A:1348:TYR:N	1:A:1352:PHE:CE2	2.88	0.41
1:A:1352:PHE:HA	1:A:1404:GLN:NE2	2.18	0.41
1:A:1496:GLU:O	1:A:1497:ASN:C	2.63	0.41
1:A:1601:ARG:HD3	1:A:1601:ARG:C	2.45	0.41
2:B:651:GLN:C	2:B:652:LEU:HD12	2.45	0.41
3:C:129:LEU:HD22	3:C:135:THR:C	2.45	0.41
1:D:90:GLU:CD	1:D:91:VAL:N	2.78	0.41
1:D:432:GLN:CG	1:D:601:SER:H	2.24	0.41
1:D:664:ASP:O	1:D:668:TYR:HD1	2.03	0.41
1:D:797:UNK:O	1:D:798:UNK:C	2.68	0.41
1:D:890:UNK:O	1:D:891:UNK:C	2.68	0.41
1:D:1185:LEU:HD13	1:D:1185:LEU:HA	1.61	0.41
1:D:1302:LYS:HB2	1:D:1303:GLU:OE2	2.20	0.41
1:D:1415:LEU:CB	1:D:1435:LYS:HB3	2.42	0.41
1:D:1473:TYR:HD2	1:D:1482:PHE:CD1	2.39	0.41
1:D:1510:LEU:O	1:D:1514:ASN:HB2	2.19	0.41
1:D:1532:ASN:O	1:D:1536:ASP:N	2.37	0.41
1:D:1555:TYR:CD2	1:D:1555:TYR:C	2.97	0.41
1:D:1578:PRO:HA	1:D:1606:PHE:HZ	1.85	0.41
2:E:549:LYS:O	2:E:551:GLN:N	2.52	0.41
2:E:617:VAL:O	2:E:642:PHE:CD2	2.69	0.41
2:E:637:VAL:HG12	2:E:640:LEU:HD12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:171:GLU:O	3:F:175:ALA:N	2.45	0.41
1:A:89:GLN:O	1:A:92:THR:HB	2.20	0.41
1:A:133:SER:HB2	1:A:135:THR:OG1	2.20	0.41
1:A:448:VAL:HG22	1:A:511:PHE:CE1	2.54	0.41
1:A:448:VAL:O	1:A:448:VAL:HG12	2.20	0.41
1:A:508:ARG:HA	1:A:530:SER:O	2.19	0.41
1:A:571:TYR:O	1:A:575:VAL:HG23	2.21	0.41
1:A:1041:SER:O	1:A:1042:LEU:HG	2.19	0.41
1:A:1125:PHE:CD2	1:A:1174:PHE:CE1	3.09	0.41
1:A:1177:LEU:O	1:A:1181:LEU:HB2	2.19	0.41
1:A:1213:ASP:C	1:A:1215:ASN:N	2.77	0.41
1:A:1214:ASN:OD1	1:A:1214:ASN:C	2.63	0.41
1:A:1214:ASN:O	1:A:1215:ASN:HB2	2.21	0.41
1:A:1247:HIS:O	1:A:1248:THR:C	2.63	0.41
1:A:1347:TYR:OH	1:A:1361:PHE:CD2	2.73	0.41
1:A:1361:PHE:C	1:A:1362:ILE:O	2.62	0.41
2:B:274:ILE:O	2:B:278:HIS:ND1	2.54	0.41
1:D:48:TYR:CG	1:D:53:LYS:HA	2.55	0.41
1:D:89:GLN:O	1:D:93:THR:HG22	2.20	0.41
1:D:468:ALA:N	1:D:492:THR:OG1	2.53	0.41
1:D:546:PHE:CD2	1:D:546:PHE:N	2.80	0.41
1:D:979:LEU:C	1:D:981:GLY:N	2.77	0.41
1:D:1037:ILE:HD11	1:D:1063:ARG:HA	2.03	0.41
1:D:1138:HIS:O	1:D:1139:GLU:C	2.62	0.41
1:D:1228:ARG:HE	1:D:1228:ARG:HB3	1.60	0.41
1:D:1347:TYR:OH	1:D:1361:PHE:CD2	2.73	0.41
1:D:1431:ILE:HG23	1:D:1435:LYS:HZ2	1.82	0.41
1:D:1447:PRO:CG	3:F:32:TYR:O	2.64	0.41
1:D:1448:VAL:O	1:D:1463:TRP:HB2	2.21	0.41
1:D:1474:LYS:NZ	1:D:1475:LEU:C	2.78	0.41
1:D:1536:ASP:CG	3:F:64:TYR:HH	2.27	0.41
1:D:1579:PHE:O	1:D:1582:ALA:HB3	2.20	0.41
2:E:317:ASP:O	2:E:321:ARG:HG3	2.20	0.41
2:E:544:ILE:HA	2:E:547:LEU:HD12	2.02	0.41
2:E:689:LEU:C	2:E:692:MET:HG2	2.46	0.41
3:F:44:VAL:HG12	3:F:45:MET:H	1.83	0.41
1:A:48:TYR:CG	1:A:53:LYS:HA	2.55	0.41
1:A:49:LEU:HG	1:A:51:LYS:N	2.35	0.41
1:A:148:VAL:O	1:A:149:THR:C	2.64	0.41
1:A:499:ILE:HG23	1:A:503:GLN:NE2	2.35	0.41
1:A:902:UNK:O	1:A:905:UNK:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:977:LYS:HB3	1:A:977:LYS:HZ2	1.84	0.41
1:A:1134:LEU:HD12	1:A:1135:LYS:H	1.84	0.41
1:A:1231:HIS:C	1:A:1234:CYS:H	2.29	0.41
1:A:1336:LEU:H	1:A:1336:LEU:CD2	2.33	0.41
1:A:1431:ILE:HG23	1:A:1435:LYS:HZ2	1.82	0.41
1:A:1459:PHE:HE2	1:A:1545:LYS:NZ	2.18	0.41
1:A:1536:ASP:OD1	1:A:1538:ALA:HA	2.20	0.41
1:A:1540:MET:HB3	1:A:1545:LYS:CD	2.50	0.41
1:A:1546:TYR:HA	1:A:1550:PHE:HD2	1.82	0.41
1:A:1557:ARG:HG3	1:A:1558:ASP:N	2.35	0.41
1:A:1604:GLU:O	1:A:1605:CYS:C	2.62	0.41
2:B:456:PHE:HA	2:B:459:CYS:SG	2.60	0.41
2:B:675:LYS:HD2	2:B:676:ASP:N	2.34	0.41
3:C:135:THR:O	3:C:137:ILE:N	2.53	0.41
1:D:428:ILE:HD11	1:D:606:VAL:HG12	2.03	0.41
1:D:461:PRO:HA	1:D:474:ASN:OD1	2.21	0.41
1:D:466:VAL:HB	1:D:470:ASP:HB2	2.01	0.41
1:D:487:PRO:O	1:D:488:ARG:HD3	2.20	0.41
1:D:964:GLU:CD	1:D:965:LEU:N	2.78	0.41
1:D:1126:LYS:O	1:D:1127:LYS:C	2.62	0.41
1:D:1235:ASP:HB3	1:D:1237:TYR:CE2	2.55	0.41
1:D:1239:GLU:OE1	1:D:1479:LEU:HD12	2.20	0.41
1:D:1246:LEU:HA	1:D:1246:LEU:HD23	1.26	0.41
1:D:1321:ASN:HA	1:D:1324:GLN:OE1	2.20	0.41
1:D:1330:GLU:HA	1:D:1334:LYS:CD	2.50	0.41
1:D:1347:TYR:CD2	1:D:1359:LYS:CB	3.00	0.41
1:D:1536:ASP:OD1	1:D:1538:ALA:HA	2.20	0.41
1:D:1572:LEU:O	1:D:1573:ILE:C	2.61	0.41
1:D:1579:PHE:HA	1:D:1582:ALA:CB	2.50	0.41
2:E:379:LEU:HD12	2:E:379:LEU:HA	1.92	0.41
2:E:552:ARG:HD3	2:E:552:ARG:HA	1.84	0.41
2:E:638:LEU:HA	2:E:641:ALA:CB	2.48	0.41
2:E:644:ILE:N	2:E:654:PHE:HE2	2.16	0.41
2:E:667:ASP:CG	2:E:678:MET:H	2.19	0.41
2:E:699:LEU:HA	2:E:699:LEU:HD23	1.36	0.41
3:F:77:VAL:HG12	3:F:78:PHE:H	1.83	0.41
3:F:80:ILE:HD12	3:F:111:ILE:H	1.84	0.41
3:F:111:ILE:CA	3:F:151:ALA:HA	2.28	0.41
1:A:38:GLN:OE1	1:A:38:GLN:HA	2.19	0.41
1:A:102:TRP:HA	1:A:105:LEU:CD1	2.50	0.41
1:A:108:ALA:C	1:A:110:LYS:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:418:MET:HA	1:A:705:UNK:O	2.21	0.41
1:A:461:PRO:HA	1:A:474:ASN:OD1	2.21	0.41
1:A:468:ALA:N	1:A:492:THR:OG1	2.53	0.41
1:A:571:TYR:CD2	1:A:573:HIS:N	2.83	0.41
1:A:1231:HIS:NE2	1:A:1236:ASN:HB2	2.35	0.41
1:A:1302:LYS:HB2	1:A:1303:GLU:OE2	2.21	0.41
1:A:1382:PHE:HE1	1:A:1404:GLN:NE2	2.18	0.41
1:A:1483:GLU:HG3	1:A:1484:VAL:O	2.20	0.41
1:A:1578:PRO:CA	1:A:1606:PHE:HZ	2.33	0.41
2:B:557:VAL:HG13	2:B:579:LEU:O	2.19	0.41
1:D:18:ASN:CG	2:E:539:LYS:NZ	2.78	0.41
1:D:89:GLN:O	1:D:92:THR:HB	2.20	0.41
1:D:133:SER:HB2	1:D:135:THR:OG1	2.20	0.41
1:D:136:LEU:HA	1:D:137:PRO:HD3	1.91	0.41
1:D:419:PRO:C	1:D:420:GLY:O	2.64	0.41
1:D:448:VAL:O	1:D:448:VAL:HG12	2.20	0.41
1:D:571:TYR:O	1:D:575:VAL:HG23	2.21	0.41
1:D:1179:LYS:HE3	1:D:1179:LYS:HB3	1.70	0.41
1:D:1214:ASN:O	1:D:1215:ASN:HB2	2.21	0.41
1:D:1364:ARG:NH2	1:D:1476:PRO:CD	2.83	0.41
1:D:1376:MET:HB2	1:D:1377:GLN:OE1	2.21	0.41
1:D:1428:ASP:O	1:D:1429:GLN:C	2.62	0.41
1:D:1459:PHE:HE2	1:D:1545:LYS:NZ	2.18	0.41
1:D:1495:LEU:C	1:D:1498:ALA:H	2.27	0.41
1:D:1505:ALA:HA	1:D:1508:LYS:HG3	2.01	0.41
1:D:1608:ASN:O	1:D:1612:LYS:HG3	2.20	0.41
2:E:214:ASP:HA	2:E:217:GLN:HG2	2.01	0.41
2:E:450:ARG:HH21	2:E:453:GLU:CD	2.27	0.41
2:E:545:LEU:C	2:E:549:LYS:NZ	2.77	0.41
2:E:579:LEU:O	2:E:581:PRO:CD	2.68	0.41
3:F:5:LYS:CG	3:F:75:THR:HG23	2.47	0.41
3:F:92:ASN:ND2	3:F:96:LYS:HD2	2.36	0.41
3:F:153:LYS:NZ	3:F:170:ASP:HB2	2.36	0.41
1:A:11:ARG:O	1:A:36:ARG:HA	2.21	0.41
1:A:120:MET:HG2	1:A:120:MET:H	1.62	0.41
1:A:124:LEU:O	1:A:125:MET:C	2.62	0.41
1:A:146:GLN:CD	1:A:146:GLN:C	2.88	0.41
1:A:542:LEU:HD23	1:A:543:HIS:O	2.21	0.41
1:A:1347:TYR:CD2	1:A:1356:LEU:O	2.74	0.41
1:A:1356:LEU:HD23	1:A:1356:LEU:HA	1.74	0.41
1:A:1376:MET:HB2	1:A:1377:GLN:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1386:GLU:O	1:A:1406:ILE:N	2.52	0.41
1:A:1393:ALA:O	1:A:1394:PRO:C	2.63	0.41
1:A:1398:VAL:O	1:A:1405:TYR:CD2	2.66	0.41
1:A:1409:PHE:CD1	3:C:28:PHE:CD1	3.08	0.41
1:A:1428:ASP:O	1:A:1429:GLN:C	2.62	0.41
1:A:1447:PRO:CG	3:C:31:GLU:HB2	2.51	0.41
1:A:1608:ASN:O	1:A:1612:LYS:HG3	2.20	0.41
2:B:133:VAL:HG13	2:B:155:LEU:HD11	2.02	0.41
2:B:243:THR:O	2:B:247:ILE:HG13	2.19	0.41
1:D:44:TRP:NE1	2:E:716:GLU:HA	2.35	0.41
1:D:886:UNK:O	1:D:889:UNK:N	2.53	0.41
1:D:979:LEU:HA	1:D:979:LEU:HD23	1.47	0.41
1:D:1085:ILE:HB	1:D:1086:PRO:HD3	2.03	0.41
1:D:1133:ILE:HA	1:D:1136:LEU:HG	2.03	0.41
1:D:1188:TYR:HA	1:D:1191:VAL:CG2	2.50	0.41
1:D:1192:MET:HE1	1:D:1200:ARG:NH1	2.29	0.41
1:D:1230:LEU:HA	1:D:1233:ASP:OD2	2.20	0.41
1:D:1315:TYR:HD1	1:D:1315:TYR:HA	1.57	0.41
1:D:1320:GLN:O	1:D:1323:ILE:N	2.54	0.41
1:D:1347:TYR:CD2	1:D:1356:LEU:O	2.74	0.41
1:D:1368:TYR:HD1	1:D:1368:TYR:HA	1.68	0.41
1:D:1382:PHE:HB3	1:D:1385:ALA:H	1.85	0.41
1:D:1398:VAL:O	1:D:1405:TYR:CD2	2.66	0.41
1:D:1475:LEU:HD11	1:D:1482:PHE:CD2	2.51	0.41
2:E:305:LEU:HB3	2:E:379:LEU:HD21	2.03	0.41
2:E:574:PHE:CZ	2:E:593:GLU:OE1	2.73	0.41
2:E:576:TYR:HE1	2:E:589:GLY:HA3	1.85	0.41
3:F:46:VAL:H	3:F:50:PRO:HA	1.86	0.41
1:A:20:GLN:HA	1:A:29:LEU:H	1.85	0.41
1:A:89:GLN:O	1:A:93:THR:HG22	2.20	0.41
1:A:508:ARG:CA	1:A:531:TYR:HB3	2.43	0.41
1:A:992:MET:HE3	1:A:992:MET:HB2	1.76	0.41
1:A:1010:THR:O	1:A:1013:GLN:N	2.53	0.41
1:A:1030:PHE:CD1	1:A:1030:PHE:N	2.87	0.41
1:A:1084:PHE:CZ	1:A:1128:PHE:HD1	2.39	0.41
1:A:1230:LEU:HA	1:A:1233:ASP:OD2	2.20	0.41
1:A:1364:ARG:HH22	1:A:1476:PRO:HD3	1.85	0.41
1:A:1368:TYR:CD2	3:C:45:MET:CB	2.88	0.41
1:A:1401:ALA:CB	1:A:1405:TYR:HE2	2.25	0.41
1:A:1421:PHE:HA	1:A:1426:VAL:CG2	2.45	0.41
1:A:1438:TYR:CA	1:A:1474:LYS:HG2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1579:PHE:HA	1:A:1582:ALA:CB	2.50	0.41
2:B:545:LEU:O	2:B:549:LYS:HG2	2.21	0.41
3:C:5:LYS:CG	3:C:75:THR:HG23	2.47	0.41
3:C:80:ILE:HD12	3:C:111:ILE:H	1.84	0.41
3:C:155:LEU:HB3	3:C:156:GLU:H	1.68	0.41
1:D:20:GLN:HA	1:D:29:LEU:H	1.85	0.41
1:D:122:TYR:HH	2:E:691:SER:HG	1.63	0.41
1:D:124:LEU:O	1:D:125:MET:C	2.62	0.41
1:D:445:ASN:HB2	1:D:483:GLN:HG3	2.03	0.41
1:D:450:MET:SD	1:D:464:ILE:HD13	2.61	0.41
1:D:547:HIS:H	1:D:602:ILE:H	1.67	0.41
1:D:902:UNK:O	1:D:905:UNK:N	2.54	0.41
1:D:957:UNK:C	1:D:959:UNK:N	2.83	0.41
1:D:1010:THR:O	1:D:1013:GLN:N	2.53	0.41
1:D:1055:ILE:O	1:D:1056:LEU:C	2.63	0.41
1:D:1134:LEU:HD12	1:D:1135:LYS:H	1.84	0.41
1:D:1159:GLU:OE1	1:D:1159:GLU:N	2.53	0.41
1:D:1177:LEU:C	1:D:1179:LYS:N	2.75	0.41
1:D:1201:MET:SD	1:D:1230:LEU:HB3	2.60	0.41
1:D:1203:CYS:HA	1:D:1206:ASN:ND2	2.24	0.41
1:D:1360:VAL:O	1:D:1360:VAL:HG12	2.18	0.41
1:D:1364:ARG:CD	1:D:1475:LEU:HD22	2.36	0.41
1:D:1368:TYR:HD2	3:F:45:MET:CB	2.29	0.41
1:D:1543:PHE:HB2	1:D:1547:GLU:OE2	2.20	0.41
2:E:300:LEU:O	2:E:304:LEU:HG	2.21	0.41
2:E:591:LEU:HA	2:E:599:VAL:HG12	2.01	0.41
2:E:642:PHE:CZ	2:E:665:TRP:HB3	2.55	0.41
2:E:658:ASP:O	2:E:661:GLU:HB2	2.20	0.41
3:F:93:VAL:HG11	3:F:112:LEU:HD21	2.02	0.41
3:F:129:LEU:HD22	3:F:135:THR:C	2.45	0.41
1:A:541:THR:HB	1:A:608:SER:HB3	2.02	0.41
1:A:964:GLU:CD	1:A:965:LEU:N	2.78	0.41
1:A:1009:GLU:O	1:A:1012:ASN:HB2	2.21	0.41
1:A:1039:GLN:C	1:A:1041:SER:N	2.77	0.41
1:A:1071:ARG:NH2	1:A:1074:TRP:CD2	2.81	0.41
1:A:1373:ASP:OD1	1:A:1377:GLN:OE1	2.39	0.41
1:A:1379:MET:HE2	1:A:1379:MET:HB2	1.88	0.41
1:A:1382:PHE:HB3	1:A:1385:ALA:H	1.85	0.41
1:A:1448:VAL:O	1:A:1463:TRP:HB2	2.20	0.41
1:A:1523:PRO:C	1:A:1525:ASN:N	2.78	0.41
2:B:583:HIS:CD2	2:B:583:HIS:O	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:701:LEU:HG	2:B:701:LEU:O	2.21	0.41
3:C:87:PRO:HG2	3:C:135:THR:H	1.86	0.41
3:C:155:LEU:HD13	3:C:168:VAL:HA	2.03	0.41
1:D:304:UNK:HA	1:D:319:UNK:N	2.36	0.41
1:D:452:VAL:HA	1:D:507:LEU:HD23	2.01	0.41
1:D:1132:ILE:O	1:D:1136:LEU:HG	2.21	0.41
1:D:1167:ILE:HD13	1:D:1167:ILE:HA	1.84	0.41
1:D:1174:PHE:O	1:D:1178:VAL:HG23	2.20	0.41
1:D:1238:THR:H	1:D:1238:THR:HG23	1.43	0.41
1:D:1368:TYR:CB	3:F:45:MET:H	2.33	0.41
1:D:1409:PHE:CD1	3:F:28:PHE:CD1	3.09	0.41
1:D:1546:TYR:HA	1:D:1550:PHE:HD2	1.82	0.41
1:D:1570:LYS:O	1:D:1571:ASP:C	2.63	0.41
2:E:378:MET:HE2	2:E:378:MET:N	2.36	0.41
2:E:444:MET:HE2	2:E:499:LEU:HA	2.02	0.41
2:E:538:GLU:C	2:E:540:ILE:N	2.78	0.41
2:E:548:ILE:HA	2:E:552:ARG:HH22	1.85	0.41
2:E:660:HIS:NE2	2:E:661:GLU:HG2	2.35	0.41
3:F:135:THR:O	3:F:137:ILE:N	2.53	0.41
1:A:37:ILE:HD11	1:A:64:ILE:HG21	2.02	0.41
1:A:83:ALA:O	1:A:86:PRO:HD2	2.21	0.41
1:A:304:UNK:HA	1:A:319:UNK:N	2.36	0.41
1:A:419:PRO:C	1:A:420:GLY:O	2.64	0.41
1:A:428:ILE:HD11	1:A:606:VAL:HG12	2.03	0.41
1:A:452:VAL:HB	1:A:460:LEU:O	2.21	0.41
1:A:503:GLN:HG2	1:A:535:MET:SD	2.61	0.41
1:A:730:UNK:C	1:A:732:UNK:N	2.83	0.41
1:A:886:UNK:O	1:A:889:UNK:N	2.53	0.41
1:A:957:UNK:C	1:A:959:UNK:N	2.83	0.41
1:A:979:LEU:C	1:A:981:GLY:N	2.77	0.41
1:A:989:TRP:O	1:A:992:MET:N	2.54	0.41
1:A:1043:GLN:HG3	1:A:1044:LEU:N	2.20	0.41
1:A:1055:ILE:O	1:A:1056:LEU:C	2.63	0.41
1:A:1085:ILE:HB	1:A:1086:PRO:HD3	2.03	0.41
1:A:1163:GLU:OE1	1:A:1164:HIS:CE1	2.74	0.41
1:A:1179:LYS:HE3	1:A:1179:LYS:HB3	1.71	0.41
1:A:1201:MET:SD	1:A:1230:LEU:HB3	2.60	0.41
1:A:1253:TRP:CH2	1:A:1277:LYS:CD	3.04	0.41
1:A:1325:GLN:HG2	1:A:1325:GLN:H	1.43	0.41
1:A:1415:LEU:CD2	1:A:1435:LYS:HB3	2.39	0.41
1:A:1440:GLN:O	1:A:1470:VAL:CA	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1519:ASP:O	1:A:1522:LEU:HD12	2.20	0.41
1:A:1570:LYS:O	1:A:1571:ASP:C	2.63	0.41
1:A:1595:LEU:O	1:A:1598:PHE:N	2.54	0.41
2:B:88:LEU:HD23	2:B:88:LEU:HA	1.90	0.41
3:C:90:PHE:CD1	3:C:137:ILE:HG21	2.56	0.41
3:C:121:ASP:HA	3:C:126:ILE:HD11	2.03	0.41
3:C:168:VAL:C	3:C:170:ASP:H	2.29	0.41
1:D:7:ALA:HB1	1:D:10:GLU:O	2.21	0.41
1:D:9:LYS:O	1:D:9:LYS:HD3	2.21	0.41
1:D:49:LEU:HG	1:D:51:LYS:HB2	2.02	0.41
1:D:83:ALA:O	1:D:86:PRO:HD2	2.21	0.41
1:D:102:TRP:HD1	1:D:105:LEU:HD12	1.85	0.41
1:D:148:VAL:O	1:D:149:THR:C	2.64	0.41
1:D:288:UNK:O	1:D:294:UNK:HA	2.21	0.41
1:D:418:MET:HA	1:D:705:UNK:O	2.21	0.41
1:D:454:ALA:O	1:D:456:ASP:N	2.54	0.41
1:D:976:PHE:HE2	1:D:1000:PHE:CD1	2.39	0.41
1:D:1009:GLU:O	1:D:1012:ASN:HB2	2.21	0.41
1:D:1066:ILE:C	1:D:1069:SER:HG	2.22	0.41
1:D:1084:PHE:CZ	1:D:1128:PHE:HD1	2.39	0.41
1:D:1136:LEU:N	1:D:1136:LEU:HD23	2.36	0.41
1:D:1172:GLU:CA	1:D:1175:VAL:HG22	2.41	0.41
1:D:1175:VAL:O	1:D:1179:LYS:N	2.54	0.41
1:D:1214:ASN:OD1	1:D:1214:ASN:C	2.63	0.41
1:D:1226:LYS:O	1:D:1229:ASP:HB2	2.21	0.41
1:D:1227:LEU:O	1:D:1229:ASP:N	2.54	0.41
1:D:1325:GLN:HA	1:D:1328:PHE:HD2	1.83	0.41
1:D:1341:ASP:C	1:D:1343:PHE:CE2	2.99	0.41
1:D:1347:TYR:O	1:D:1348:TYR:CG	2.74	0.41
1:D:1348:TYR:N	1:D:1352:PHE:CE2	2.88	0.41
1:D:1393:ALA:O	1:D:1394:PRO:C	2.63	0.41
1:D:1438:TYR:CA	1:D:1474:LYS:HG2	2.34	0.41
1:D:1493:SER:HG	1:D:1496:GLU:HG3	1.84	0.41
1:D:1509:ILE:C	1:D:1513:ILE:HG23	2.46	0.41
1:D:1512:MET:O	1:D:1513:ILE:C	2.60	0.41
2:E:555:ARG:HA	2:E:555:ARG:NE	2.36	0.41
2:E:567:ALA:O	2:E:573:LYS:HG3	2.20	0.41
2:E:634:ASN:HB3	2:E:636:GLU:OE1	2.20	0.41
2:E:659:LYS:O	2:E:660:HIS:C	2.64	0.41
2:E:670:ASN:HB3	2:E:675:LYS:O	2.21	0.41
3:F:1:MET:O	3:F:52:ASN:N	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:8:VAL:HG12	3:F:16:LYS:HD2	2.02	0.41
1:A:7:ALA:HB1	1:A:10:GLU:O	2.21	0.41
1:A:9:LYS:HD3	1:A:9:LYS:O	2.21	0.41
1:A:88:ALA:O	1:A:91:VAL:N	2.54	0.41
1:A:224:UNK:O	1:A:384:UNK:N	2.54	0.41
1:A:822:UNK:O	1:A:823:UNK:C	2.69	0.41
1:A:1132:ILE:O	1:A:1136:LEU:HG	2.21	0.41
1:A:1184:LYS:HD3	1:A:1210:PHE:CD1	2.56	0.41
1:A:1227:LEU:O	1:A:1229:ASP:N	2.54	0.41
1:A:1239:GLU:OE1	1:A:1479:LEU:HD12	2.20	0.41
1:A:1388:MET:SD	1:A:1395:GLY:N	2.93	0.41
1:A:1502:MET:H	1:A:1502:MET:HG2	1.63	0.41
1:A:1584:ILE:O	1:A:1585:LYS:C	2.63	0.41
2:B:41:TRP:HE3	2:B:43:LEU:HD11	1.86	0.41
2:B:227:GLN:C	2:B:230:PRO:HD2	2.46	0.41
3:C:83:SER:HB3	3:C:116:LYS:HG2	2.03	0.41
3:C:112:LEU:HG	3:C:154:TYR:HE1	1.86	0.41
1:D:110:LYS:O	1:D:113:ARG:NE	2.52	0.41
1:D:503:GLN:HG2	1:D:535:MET:SD	2.61	0.41
1:D:1227:LEU:HD12	1:D:1227:LEU:HA	1.73	0.41
1:D:1314:ASP:OD1	1:D:1316:GLU:OE1	2.39	0.41
1:D:1323:ILE:HD13	1:D:1323:ILE:HA	1.80	0.41
1:D:1363:TYR:CZ	1:D:1369:GLU:OE2	2.74	0.41
1:D:1373:ASP:OD1	1:D:1377:GLN:OE1	2.39	0.41
1:D:1437:ASN:HA	1:D:1475:LEU:O	2.21	0.41
1:D:1437:ASN:C	1:D:1475:LEU:O	2.60	0.41
1:D:1581:GLY:HA3	1:D:1606:PHE:CE2	2.56	0.41
1:D:1608:ASN:HA	1:D:1611:MET:HE2	2.03	0.41
2:E:196:SER:HA	2:E:199:GLN:NE2	2.36	0.41
2:E:292:HIS:ND1	2:E:439:ASN:HB3	2.36	0.41
2:E:313:MET:N	2:E:378:MET:HE3	2.36	0.41
2:E:467:TRP:HZ3	2:E:477:PHE:HD2	1.69	0.41
2:E:576:TYR:CG	2:E:577:CYS:N	2.85	0.41
3:F:11:ASP:CG	3:F:97:TRP:NE1	2.80	0.41
1:A:27:LEU:O	1:A:29:LEU:HG	2.21	0.40
1:A:84:GLU:HB2	1:A:132:LEU:CD1	2.51	0.40
1:A:466:VAL:O	1:A:469:GLY:N	2.55	0.40
1:A:1253:TRP:CE2	1:A:1307:GLN:CD	2.99	0.40
1:A:1343:PHE:O	1:A:1363:TYR:HB2	2.12	0.40
1:A:1353:PRO:HB2	1:A:1355:PHE:CE1	2.55	0.40
1:A:1441:ARG:C	1:A:1442:PHE:CG	2.99	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1524:ILE:HD13	1:A:1591:VAL:CB	2.52	0.40
1:A:1610:LYS:HE2	1:A:1614:GLU:CD	2.46	0.40
2:B:107:LEU:O	2:B:111:SER:HB2	2.20	0.40
2:B:133:VAL:HG22	2:B:155:LEU:HD11	2.03	0.40
2:B:314:ASP:HB3	2:B:317:ASP:HB2	2.01	0.40
2:B:610:VAL:HG11	2:B:672:LEU:HD22	2.02	0.40
3:C:72:TYR:HB2	3:C:104:HIS:CG	2.56	0.40
3:C:123:LYS:O	3:C:127:GLU:CB	2.51	0.40
1:D:15:ALA:HB3	1:D:33:ASP:H	1.86	0.40
1:D:224:UNK:O	1:D:384:UNK:N	2.54	0.40
1:D:466:VAL:O	1:D:469:GLY:N	2.54	0.40
1:D:504:ARG:HD3	1:D:504:ARG:HA	1.82	0.40
1:D:782:UNK:C	1:D:784:UNK:N	2.84	0.40
1:D:985:TYR:CE2	1:D:992:MET:HG2	2.56	0.40
1:D:1159:GLU:O	1:D:1162:ALA:N	2.54	0.40
1:D:1167:ILE:O	1:D:1171:VAL:HG23	2.21	0.40
1:D:1231:HIS:C	1:D:1234:CYS:H	2.29	0.40
1:D:1253:TRP:CE2	1:D:1307:GLN:CD	2.99	0.40
1:D:1304:LEU:HA	1:D:1304:LEU:HD12	1.25	0.40
1:D:1337:ARG:HH12	1:D:1430:ILE:CA	2.31	0.40
1:D:1343:PHE:HE1	3:F:26:ASN:CG	2.28	0.40
1:D:1343:PHE:HE1	3:F:26:ASN:HD21	1.59	0.40
1:D:1352:PHE:HZ	1:D:1405:TYR:N	2.18	0.40
1:D:1388:MET:CE	1:D:1394:PRO:HB2	2.51	0.40
1:D:1395:GLY:O	1:D:1398:VAL:N	2.54	0.40
1:D:1441:ARG:C	1:D:1442:PHE:CG	2.99	0.40
1:D:1444:TYR:CE1	3:F:27:ALA:HB2	2.54	0.40
1:D:1459:PHE:CE2	3:F:36:VAL:CG1	3.03	0.40
1:D:1498:ALA:O	1:D:1499:ILE:C	2.63	0.40
1:D:1512:MET:O	1:D:1516:TYR:CD2	2.66	0.40
2:E:553:LEU:C	2:E:556:LEU:H	2.29	0.40
3:F:112:LEU:HG	3:F:154:TYR:HE1	1.86	0.40
1:A:450:MET:SD	1:A:464:ILE:HD13	2.61	0.40
1:A:454:ALA:O	1:A:456:ASP:N	2.54	0.40
1:A:782:UNK:C	1:A:784:UNK:N	2.84	0.40
1:A:1054:LYS:HG2	1:A:1055:ILE:N	2.37	0.40
1:A:1133:ILE:HA	1:A:1136:LEU:HG	2.03	0.40
1:A:1167:ILE:O	1:A:1171:VAL:HG23	2.21	0.40
1:A:1253:TRP:CD2	1:A:1277:LYS:NZ	2.78	0.40
1:A:1293:MET:CE	1:A:1476:PRO:HG3	2.48	0.40
1:A:1308:TYR:CB	1:A:1318:LEU:HD13	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1320:GLN:O	1:A:1323:ILE:N	2.54	0.40
1:A:1347:TYR:HA	1:A:1352:PHE:CD1	2.57	0.40
1:A:1362:ILE:HG21	1:A:1442:PHE:CZ	2.57	0.40
1:A:1473:TYR:HD2	1:A:1482:PHE:CD1	2.39	0.40
1:A:1502:MET:HE2	1:A:1502:MET:N	2.35	0.40
1:A:1503:SER:HA	1:A:1506:ASN:OD1	2.22	0.40
1:A:1534:ILE:HA	3:C:37:PHE:HB3	2.03	0.40
1:A:1601:ARG:HD3	1:A:1602:MET:CA	2.51	0.40
1:A:1603:GLU:H	1:A:1603:GLU:HG3	1.72	0.40
2:B:646:TYR:O	2:B:651:GLN:NE2	2.54	0.40
3:C:91:GLU:C	3:C:94:ARG:NH1	2.73	0.40
3:C:162:GLN:HA	3:C:165:LEU:HD13	2.03	0.40
3:C:166:LYS:O	3:C:167:THR:C	2.63	0.40
3:C:171:GLU:O	3:C:175:ALA:N	2.45	0.40
1:D:17:TYR:CZ	2:E:710:PRO:HG3	2.56	0.40
1:D:452:VAL:HB	1:D:460:LEU:O	2.21	0.40
1:D:1097:LEU:HA	1:D:1097:LEU:HD23	1.83	0.40
1:D:1254:SER:H	1:D:1274:ARG:HB3	1.86	0.40
1:D:1308:TYR:CB	1:D:1318:LEU:HD13	2.51	0.40
1:D:1343:PHE:O	1:D:1363:TYR:HB2	2.12	0.40
1:D:1367:GLU:HB2	3:F:45:MET:CE	2.49	0.40
1:D:1386:GLU:OE1	1:D:1386:GLU:O	2.39	0.40
1:D:1420:ARG:O	1:D:1424:LYS:HB3	2.21	0.40
1:D:1502:MET:HE2	1:D:1502:MET:N	2.35	0.40
1:D:1545:LYS:O	1:D:1548:LYS:N	2.54	0.40
1:D:1595:LEU:O	1:D:1598:PHE:N	2.54	0.40
1:D:1601:ARG:HD3	1:D:1602:MET:CA	2.51	0.40
1:D:1610:LYS:HE2	1:D:1614:GLU:CD	2.46	0.40
2:E:114:VAL:HG23	2:E:168:HIS:HB3	2.04	0.40
2:E:320:GLN:NE2	2:E:378:MET:SD	2.94	0.40
2:E:695:LYS:O	2:E:698:LEU:HB2	2.21	0.40
3:F:41:SER:N	3:F:55:LEU:HD12	2.37	0.40
3:F:68:ARG:O	3:F:72:TYR:CD2	2.74	0.40
3:F:72:TYR:HB2	3:F:104:HIS:CG	2.56	0.40
3:F:83:SER:HB3	3:F:116:LYS:HG2	2.03	0.40
3:F:84:LEU:HB3	3:F:120:ARG:HB2	2.02	0.40
1:A:14:VAL:HG11	2:B:700:ASP:O	2.21	0.40
1:A:435:PHE:CZ	1:A:446:VAL:HG12	2.56	0.40
1:A:504:ARG:HD3	1:A:504:ARG:HA	1.82	0.40
1:A:1001:LEU:O	1:A:1002:ARG:C	2.64	0.40
1:A:1043:GLN:HG3	1:A:1044:LEU:CD1	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1052:TYR:O	1:A:1053:ASN:C	2.64	0.40
1:A:1129:GLU:O	1:A:1130:ASN:C	2.63	0.40
1:A:1175:VAL:O	1:A:1179:LYS:N	2.54	0.40
1:A:1188:TYR:HA	1:A:1191:VAL:CG2	2.50	0.40
1:A:1204:THR:HG21	1:A:1227:LEU:HD13	2.04	0.40
1:A:1277:LYS:HB2	1:A:1277:LYS:HE3	1.89	0.40
1:A:1293:MET:C	1:A:1295:GLU:OE2	2.65	0.40
1:A:1349:GLY:C	1:A:1352:PHE:HE2	2.30	0.40
1:A:1389:ASN:OD1	1:A:1389:ASN:N	2.41	0.40
1:A:1394:PRO:HG2	1:A:1399:LYS:CG	2.49	0.40
1:A:1437:ASN:HA	1:A:1475:LEU:O	2.21	0.40
1:A:1444:TYR:HB3	1:A:1467:THR:C	2.44	0.40
1:A:1480:ARG:HB2	1:A:1481:TRP:HE3	1.85	0.40
1:A:1506:ASN:HA	1:A:1509:ILE:CD1	2.30	0.40
1:A:1508:LYS:O	1:A:1511:MET:HB2	2.21	0.40
1:A:1515:GLN:OE1	1:A:1516:TYR:CE2	2.74	0.40
1:A:1581:GLY:HA3	1:A:1606:PHE:CE2	2.56	0.40
3:C:62:GLU:OE1	3:C:63:ASP:OD1	2.39	0.40
3:C:84:LEU:HB3	3:C:120:ARG:HB2	2.02	0.40
3:C:173:ILE:O	3:C:175:ALA:N	2.55	0.40
1:D:127:TRP:O	1:D:131:LEU:HG	2.22	0.40
1:D:435:PHE:CZ	1:D:446:VAL:HG12	2.56	0.40
1:D:443:GLN:HB3	1:D:485:LYS:HB2	2.02	0.40
1:D:557:LYS:CE	1:D:558:LYS:HZ3	2.34	0.40
1:D:989:TRP:O	1:D:992:MET:N	2.54	0.40
1:D:1003:ALA:O	1:D:1004:ILE:C	2.65	0.40
1:D:1082:ILE:HG23	1:D:1083:CYS:N	2.34	0.40
1:D:1125:PHE:CD2	1:D:1174:PHE:CE1	3.09	0.40
1:D:1130:ASN:HA	1:D:1216:ARG:HH22	1.87	0.40
1:D:1184:LYS:HD3	1:D:1210:PHE:CD1	2.56	0.40
1:D:1293:MET:C	1:D:1295:GLU:OE2	2.65	0.40
1:D:1342:TYR:CD2	1:D:1413:PRO:HB3	2.56	0.40
1:D:1347:TYR:HA	1:D:1352:PHE:CD1	2.57	0.40
1:D:1390:THR:HG1	1:D:1392:SER:C	2.28	0.40
1:D:1515:GLN:OE1	1:D:1516:TYR:CE2	2.74	0.40
1:D:1584:ILE:O	1:D:1585:LYS:C	2.63	0.40
2:E:30:LEU:HD23	2:E:30:LEU:HA	1.94	0.40
2:E:376:PRO:HB2	2:E:380:ALA:HB2	2.03	0.40
2:E:541:GLN:HA	2:E:690:LEU:HD13	2.04	0.40
2:E:571:GLN:C	2:E:573:LYS:N	2.80	0.40
2:E:647:ASP:O	2:E:649:ASN:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:62:GLU:OE1	3:F:63:ASP:OD1	2.39	0.40
3:F:66:ARG:HG3	3:F:67:LEU:HD12	2.04	0.40
3:F:121:ASP:HA	3:F:126:ILE:HD11	2.03	0.40
3:F:164:GLY:O	3:F:168:VAL:N	2.32	0.40
1:A:15:ALA:HB3	1:A:33:ASP:H	1.86	0.40
1:A:16:ILE:HD13	1:A:16:ILE:HA	1.78	0.40
1:A:17:TYR:CG	1:A:18:ASN:N	2.89	0.40
1:A:102:TRP:O	1:A:103:LYS:C	2.63	0.40
1:A:110:LYS:O	1:A:113:ARG:NE	2.52	0.40
1:A:179:SER:O	1:A:181:ILE:N	2.49	0.40
1:A:445:ASN:HD21	1:A:480:VAL:HG12	1.86	0.40
1:A:1176:ASN:HA	1:A:1179:LYS:CE	2.51	0.40
1:A:1294:TRP:HB2	1:A:1332:ILE:HG13	2.03	0.40
1:A:1314:ASP:OD1	1:A:1316:GLU:OE1	2.39	0.40
1:A:1326:ALA:O	1:A:1329:TYR:HB2	2.22	0.40
1:A:1347:TYR:O	1:A:1348:TYR:CG	2.74	0.40
1:A:1364:ARG:NH2	1:A:1476:PRO:CD	2.83	0.40
1:A:1433:PHE:C	1:A:1436:SER:HB2	2.46	0.40
1:A:1510:LEU:C	1:A:1513:ILE:HG12	2.46	0.40
1:A:1579:PHE:O	1:A:1582:ALA:HB3	2.20	0.40
2:B:275:ILE:HB	2:B:446:PHE:CE2	2.53	0.40
2:B:324:ILE:HG22	2:B:356:TYR:CZ	2.57	0.40
2:B:665:TRP:O	2:B:669:LEU:HG	2.21	0.40
3:C:47:ASP:OD2	3:C:174:ARG:NH2	2.54	0.40
3:C:94:ARG:O	3:C:98:TYR:HD2	2.04	0.40
1:D:17:TYR:CG	1:D:18:ASN:N	2.89	0.40
1:D:37:ILE:CG2	1:D:45:TYR:HB3	2.52	0.40
1:D:122:TYR:OH	2:E:692:MET:SD	2.77	0.40
1:D:243:UNK:O	1:D:296:UNK:N	2.55	0.40
1:D:558:LYS:HA	1:D:561:ASP:HB2	2.03	0.40
1:D:935:UNK:C	1:D:937:UNK:N	2.83	0.40
1:D:1193:THR:HG1	1:D:1194:ASP:CG	2.27	0.40
1:D:1238:THR:OG1	1:D:1239:GLU:OE1	2.40	0.40
1:D:1239:GLU:HG2	1:D:1478:ILE:C	2.46	0.40
1:D:1299:SER:O	1:D:1302:LYS:N	2.54	0.40
1:D:1336:LEU:H	1:D:1336:LEU:CD2	2.33	0.40
1:D:1433:PHE:C	1:D:1436:SER:HB2	2.46	0.40
1:D:1474:LYS:NZ	1:D:1476:PRO:HD2	2.36	0.40
1:D:1483:GLU:HG3	1:D:1484:VAL:C	2.47	0.40
1:D:1564:ASP:O	1:D:1565:LYS:C	2.63	0.40
2:E:272:ARG:HG3	2:E:446:PHE:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:457:CYS:O	2:E:460:ILE:HG22	2.21	0.40
3:F:93:VAL:HB	3:F:145:MET:HE2	2.04	0.40
3:F:94:ARG:O	3:F:98:TYR:HD2	2.04	0.40
3:F:100:GLU:HA	3:F:103:HIS:CB	2.49	0.40
3:F:110:ILE:HD13	3:F:110:ILE:HA	1.76	0.40
3:F:173:ILE:O	3:F:175:ALA:N	2.55	0.40
1:A:243:UNK:O	1:A:296:UNK:N	2.55	0.40
1:A:452:VAL:HG12	1:A:460:LEU:HB2	2.04	0.40
1:A:881:UNK:O	1:A:882:UNK:C	2.70	0.40
1:A:1163:GLU:C	1:A:1164:HIS:CG	2.99	0.40
1:A:1177:LEU:C	1:A:1179:LYS:N	2.75	0.40
1:A:1237:TYR:HB3	1:A:1287:TYR:HB3	2.04	0.40
1:A:1285:ILE:O	1:A:1286:GLY:C	2.65	0.40
1:A:1322:LEU:HA	1:A:1325:GLN:HE21	1.77	0.40
1:A:1327:LYS:HE2	1:A:1327:LYS:CA	2.46	0.40
1:A:1341:ASP:C	1:A:1343:PHE:CE2	2.99	0.40
2:B:683:ARG:NH1	2:B:687:ASP:HB2	2.32	0.40
3:C:11:ASP:CG	3:C:97:TRP:NE1	2.80	0.40
3:C:92:ASN:ND2	3:C:96:LYS:HD2	2.36	0.40
3:C:111:ILE:CA	3:C:151:ALA:HA	2.28	0.40
1:D:24:ALA:HA	1:D:25:PRO:HA	1.90	0.40
1:D:88:ALA:O	1:D:91:VAL:N	2.54	0.40
1:D:128:ARG:HD3	2:E:699:LEU:HD22	2.03	0.40
1:D:157:LYS:HD3	1:D:158:ILE:N	2.36	0.40
1:D:969:LEU:HD13	1:D:969:LEU:HA	1.87	0.40
1:D:1086:PRO:O	1:D:1088:MET:N	2.55	0.40
1:D:1129:GLU:O	1:D:1130:ASN:C	2.63	0.40
1:D:1204:THR:HG21	1:D:1227:LEU:HD13	2.04	0.40
1:D:1237:TYR:HB3	1:D:1287:TYR:HB3	2.04	0.40
1:D:1251:LEU:CD2	1:D:1277:LYS:HB2	2.52	0.40
1:D:1307:GLN:O	1:D:1308:TYR:C	2.64	0.40
1:D:1446:ARG:O	1:D:1464:ILE:CA	2.58	0.40
1:D:1532:ASN:O	1:D:1535:VAL:N	2.54	0.40
2:E:8:VAL:HA	2:E:71:ASN:HD21	1.87	0.40
2:E:528:PHE:O	2:E:534:LEU:HD13	2.21	0.40
2:E:664:ILE:HA	2:E:664:ILE:HD13	1.75	0.40
3:F:9:VAL:HG22	3:F:80:ILE:HA	2.04	0.40
3:F:168:VAL:C	3:F:170:ASP:H	2.29	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	1029/1830 (56%)	689 (67%)	312 (30%)	28 (3%)	4	28
1	D	1029/1830 (56%)	689 (67%)	312 (30%)	28 (3%)	4	28
2	B	672/727 (92%)	641 (95%)	29 (4%)	2 (0%)	36	70
2	E	672/727 (92%)	593 (88%)	75 (11%)	4 (1%)	21	58
3	C	175/192 (91%)	121 (69%)	49 (28%)	5 (3%)	3	26
3	F	175/192 (91%)	121 (69%)	49 (28%)	5 (3%)	3	26
All	All	3752/5498 (68%)	2854 (76%)	826 (22%)	72 (2%)	8	34

All (72) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	180	VAL
1	A	414	PRO
1	A	1196	SER
1	A	1238	THR
1	A	1428	ASP
1	A	1429	GLN
2	B	57	SER
1	D	180	VAL
1	D	414	PRO
1	D	1196	SER
1	D	1238	THR
1	D	1428	ASP
1	D	1429	GLN
2	E	57	SER
1	A	483	GLN
1	A	1018	HIS
1	A	1237	TYR
1	A	1588	GLU
2	B	56	SER
1	D	483	GLN

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Mol	Chain	Res	Type
1	D	1018	HIS
1	D	1237	TYR
1	D	1588	GLU
2	E	56	SER
2	E	605	GLN
1	A	206	GLN
1	A	1198	ASP
1	A	1459	PHE
3	C	27	ALA
3	C	92	ASN
1	D	206	GLN
1	D	1198	ASP
1	D	1459	PHE
2	E	564	LYS
3	F	27	ALA
3	F	92	ASN
1	A	1081	LYS
1	A	1299	SER
1	A	1480	ARG
1	D	1081	LYS
1	D	1299	SER
1	D	1480	ARG
1	A	1214	ASN
1	A	1383	PRO
1	A	1504	THR
1	A	1524	ILE
3	C	28	PHE
3	C	170	ASP
1	D	1214	ASN
1	D	1383	PRO
1	D	1504	THR
1	D	1524	ILE
3	F	28	PHE
3	F	170	ASP
1	A	1044	LEU
1	A	1137	ASP
1	A	1419	PRO
1	A	1511	MET
1	A	1601	ARG
1	D	1044	LEU
1	D	1137	ASP
1	D	1419	PRO

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Mol	Chain	Res	Type
1	D	1511	MET
1	D	1601	ARG
1	A	1478	ILE
1	D	1478	ILE
1	A	1175	VAL
3	C	106	PRO
1	D	1175	VAL
3	F	106	PRO
1	A	420	GLY
1	D	420	GLY

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	829/1180 (70%)	633 (76%)	196 (24%)	1	5
1	D	829/1180 (70%)	633 (76%)	196 (24%)	1	5
2	B	497/662 (75%)	496 (100%)	1 (0%)	87	87
2	E	498/662 (75%)	486 (98%)	12 (2%)	43	63
3	C	153/168 (91%)	127 (83%)	26 (17%)	2	12
3	F	153/168 (91%)	127 (83%)	26 (17%)	2	12
All	All	2959/4020 (74%)	2502 (85%)	457 (15%)	5	14

All (457) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	5	ARG
1	A	16	ILE
1	A	22	SER
1	A	30	GLN
1	A	31	ILE
1	A	38	GLN
1	A	51	LYS

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Mol	Chain	Res	Type
1	A	53	LYS
1	A	56	GLN
1	A	67	LYS
1	A	68	GLU
1	A	84	GLU
1	A	87	LEU
1	A	89	GLN
1	A	90	GLU
1	A	100	SER
1	A	101	ILE
1	A	109	SER
1	A	110	LYS
1	A	111	LYS
1	A	112	GLU
1	A	120	MET
1	A	123	ASP
1	A	124	LEU
1	A	125	MET
1	A	128	ARG
1	A	129	SER
1	A	132	LEU
1	A	133	SER
1	A	136	LEU
1	A	138	LYS
1	A	139	ASP
1	A	140	GLU
1	A	141	LEU
1	A	142	LYS
1	A	152	ILE
1	A	156	ASN
1	A	157	LYS
1	A	166	ARG
1	A	184	PHE
1	A	421	ASP
1	A	424	ASN
1	A	429	THR
1	A	440	LYS
1	A	448	VAL
1	A	449	ILE
1	A	455	GLU
1	A	459	THR
1	A	465	CYS

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Mol	Chain	Res	Type
1	A	470	ASP
1	A	471	LYS
1	A	473	MET
1	A	475	GLU
1	A	477	ARG
1	A	478	SER
1	A	479	VAL
1	A	486	GLN
1	A	488	ARG
1	A	494	LYS
1	A	499	ILE
1	A	500	GLU
1	A	502	MET
1	A	504	ARG
1	A	508	ARG
1	A	510	MET
1	A	517	LEU
1	A	518	GLU
1	A	519	SER
1	A	520	LYS
1	A	522	LYS
1	A	526	ASN
1	A	527	PHE
1	A	530	SER
1	A	532	VAL
1	A	533	LYS
1	A	534	LEU
1	A	535	MET
1	A	537	GLU
1	A	538	ASP
1	A	542	LEU
1	A	546	PHE
1	A	553	LYS
1	A	555	ASP
1	A	556	SER
1	A	557	LYS
1	A	563	SER
1	A	567	THR
1	A	592	LEU
1	A	593	SER
1	A	596	SER
1	A	597	ARG

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Mol	Chain	Res	Type
1	A	603	SER
1	A	605	LEU
1	A	609	THR
1	A	965	LEU
1	A	968	PHE
1	A	972	THR
1	A	975	MET
1	A	977	LYS
1	A	980	ILE
1	A	990	MET
1	A	992	MET
1	A	994	MET
1	A	1001	LEU
1	A	1010	THR
1	A	1011	MET
1	A	1013	GLN
1	A	1023	PHE
1	A	1024	GLN
1	A	1028	ASN
1	A	1034	VAL
1	A	1041	SER
1	A	1044	LEU
1	A	1054	LYS
1	A	1062	MET
1	A	1064	ARG
1	A	1065	LEU
1	A	1066	ILE
1	A	1069	SER
1	A	1071	ARG
1	A	1080	ASN
1	A	1081	LYS
1	A	1093	LEU
1	A	1102	GLU
1	A	1110	ILE
1	A	1134	LEU
1	A	1136	LEU
1	A	1138	HIS
1	A	1152	LEU
1	A	1156	ILE
1	A	1160	CYS
1	A	1166	THR
1	A	1169	LYS

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Mol	Chain	Res	Type
1	A	1172	GLU
1	A	1179	LYS
1	A	1182	LEU
1	A	1183	GLU
1	A	1184	LYS
1	A	1196	SER
1	A	1201	MET
1	A	1202	SER
1	A	1208	LEU
1	A	1211	TYR
1	A	1212	LYS
1	A	1216	ARG
1	A	1221	ILE
1	A	1224	LEU
1	A	1229	ASP
1	A	1233	ASP
1	A	1245	LEU
1	A	1248	THR
1	A	1252	LYS
1	A	1273	HIS
1	A	1295	GLU
1	A	1299	SER
1	A	1303	GLU
1	A	1306	GLU
1	A	1310	MET
1	A	1320	GLN
1	A	1342	TYR
1	A	1345	VAL
1	A	1354	SER
1	A	1359	LYS
1	A	1367	GLU
1	A	1375	GLN
1	A	1378	LEU
1	A	1386	GLU
1	A	1390	THR
1	A	1391	THR
1	A	1392	SER
1	A	1406	ILE
1	A	1408	CYS
1	A	1430	ILE
1	A	1438	TYR
1	A	1441	ARG

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Mol	Chain	Res	Type
1	A	1453	VAL
1	A	1466	ARG
1	A	1478	ILE
1	A	1480	ARG
1	A	1490	THR
1	A	1492	ILE
1	A	1501	THR
1	A	1506	ASN
1	A	1521	THR
1	A	1525	ASN
1	A	1528	SER
1	A	1534	ILE
1	A	1556	VAL
1	A	1561	GLU
1	A	1565	LYS
1	A	1566	LEU
1	A	1591	VAL
1	A	1592	SER
1	A	1602	MET
1	A	1608	ASN
2	B	475	GLU
3	C	4	ILE
3	C	24	THR
3	C	29	PRO
3	C	35	THR
3	C	41	SER
3	C	46	VAL
3	C	53	LEU
3	C	62	GLU
3	C	63	ASP
3	C	66	ARG
3	C	69	PRO
3	C	76	ASP
3	C	86	SER
3	C	94	ARG
3	C	105	CYS
3	C	108	THR
3	C	113	VAL
3	C	122	ASP
3	C	128	LYS
3	C	129	LEU
3	C	130	LYS

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Mol	Chain	Res	Type
3	C	133	LYS
3	C	147	LYS
3	C	149	ILE
3	C	170	ASP
3	C	176	VAL
1	D	1	MET
1	D	5	ARG
1	D	16	ILE
1	D	22	SER
1	D	30	GLN
1	D	31	ILE
1	D	38	GLN
1	D	51	LYS
1	D	53	LYS
1	D	56	GLN
1	D	67	LYS
1	D	68	GLU
1	D	84	GLU
1	D	87	LEU
1	D	89	GLN
1	D	90	GLU
1	D	100	SER
1	D	101	ILE
1	D	109	SER
1	D	110	LYS
1	D	111	LYS
1	D	112	GLU
1	D	120	MET
1	D	123	ASP
1	D	124	LEU
1	D	125	MET
1	D	128	ARG
1	D	129	SER
1	D	132	LEU
1	D	133	SER
1	D	136	LEU
1	D	138	LYS
1	D	139	ASP
1	D	140	GLU
1	D	141	LEU
1	D	142	LYS
1	D	152	ILE

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Mol	Chain	Res	Type
1	D	156	ASN
1	D	157	LYS
1	D	166	ARG
1	D	184	PHE
1	D	421	ASP
1	D	424	ASN
1	D	429	THR
1	D	440	LYS
1	D	448	VAL
1	D	449	ILE
1	D	455	GLU
1	D	459	THR
1	D	465	CYS
1	D	470	ASP
1	D	471	LYS
1	D	473	MET
1	D	475	GLU
1	D	477	ARG
1	D	478	SER
1	D	479	VAL
1	D	486	GLN
1	D	488	ARG
1	D	494	LYS
1	D	499	ILE
1	D	500	GLU
1	D	502	MET
1	D	504	ARG
1	D	508	ARG
1	D	510	MET
1	D	517	LEU
1	D	518	GLU
1	D	519	SER
1	D	520	LYS
1	D	522	LYS
1	D	526	ASN
1	D	527	PHE
1	D	530	SER
1	D	532	VAL
1	D	533	LYS
1	D	534	LEU
1	D	535	MET
1	D	537	GLU

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Mol	Chain	Res	Type
1	D	538	ASP
1	D	542	LEU
1	D	546	PHE
1	D	553	LYS
1	D	555	ASP
1	D	556	SER
1	D	557	LYS
1	D	563	SER
1	D	567	THR
1	D	592	LEU
1	D	593	SER
1	D	596	SER
1	D	597	ARG
1	D	603	SER
1	D	605	LEU
1	D	609	THR
1	D	965	LEU
1	D	968	PHE
1	D	972	THR
1	D	975	MET
1	D	977	LYS
1	D	980	ILE
1	D	990	MET
1	D	992	MET
1	D	994	MET
1	D	1001	LEU
1	D	1010	THR
1	D	1011	MET
1	D	1013	GLN
1	D	1023	PHE
1	D	1024	GLN
1	D	1028	ASN
1	D	1034	VAL
1	D	1041	SER
1	D	1044	LEU
1	D	1054	LYS
1	D	1062	MET
1	D	1064	ARG
1	D	1065	LEU
1	D	1066	ILE
1	D	1069	SER
1	D	1071	ARG

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Mol	Chain	Res	Type
1	D	1080	ASN
1	D	1081	LYS
1	D	1093	LEU
1	D	1102	GLU
1	D	1110	ILE
1	D	1134	LEU
1	D	1136	LEU
1	D	1138	HIS
1	D	1152	LEU
1	D	1156	ILE
1	D	1160	CYS
1	D	1166	THR
1	D	1169	LYS
1	D	1172	GLU
1	D	1179	LYS
1	D	1182	LEU
1	D	1183	GLU
1	D	1184	LYS
1	D	1196	SER
1	D	1201	MET
1	D	1202	SER
1	D	1208	LEU
1	D	1211	TYR
1	D	1212	LYS
1	D	1216	ARG
1	D	1221	ILE
1	D	1224	LEU
1	D	1229	ASP
1	D	1233	ASP
1	D	1245	LEU
1	D	1248	THR
1	D	1252	LYS
1	D	1273	HIS
1	D	1295	GLU
1	D	1299	SER
1	D	1303	GLU
1	D	1306	GLU
1	D	1310	MET
1	D	1320	GLN
1	D	1342	TYR
1	D	1345	VAL
1	D	1354	SER

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Mol	Chain	Res	Type
1	D	1359	LYS
1	D	1367	GLU
1	D	1375	GLN
1	D	1378	LEU
1	D	1386	GLU
1	D	1390	THR
1	D	1391	THR
1	D	1392	SER
1	D	1406	ILE
1	D	1408	CYS
1	D	1430	ILE
1	D	1438	TYR
1	D	1441	ARG
1	D	1453	VAL
1	D	1466	ARG
1	D	1478	ILE
1	D	1480	ARG
1	D	1490	THR
1	D	1492	ILE
1	D	1501	THR
1	D	1506	ASN
1	D	1521	THR
1	D	1525	ASN
1	D	1528	SER
1	D	1534	ILE
1	D	1556	VAL
1	D	1561	GLU
1	D	1565	LYS
1	D	1566	LEU
1	D	1591	VAL
1	D	1592	SER
1	D	1602	MET
1	D	1608	ASN
2	E	407	ASP
2	E	537	LYS
2	E	563	ARG
2	E	565	LEU
2	E	579	LEU
2	E	616	VAL
2	E	636	GLU
2	E	638	LEU
2	E	660	HIS

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Mol	Chain	Res	Type
2	E	684	ASN
2	E	685	ASP
2	E	689	LEU
3	F	4	ILE
3	F	24	THR
3	F	29	PRO
3	F	35	THR
3	F	41	SER
3	F	46	VAL
3	F	53	LEU
3	F	62	GLU
3	F	63	ASP
3	F	66	ARG
3	F	69	PRO
3	F	76	ASP
3	F	86	SER
3	F	94	ARG
3	F	105	CYS
3	F	108	THR
3	F	113	VAL
3	F	122	ASP
3	F	128	LYS
3	F	129	LEU
3	F	130	LYS
3	F	133	LYS
3	F	147	LYS
3	F	149	ILE
3	F	170	ASP
3	F	176	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (90) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	65	HIS
1	A	89	GLN
1	A	118	GLN
1	A	146	GLN
1	A	185	HIS
1	A	424	ASN
1	A	439	ASN
1	A	503	GLN
1	A	526	ASN

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Mol	Chain	Res	Type
1	A	577	ASN
1	A	1005	ASN
1	A	1012	ASN
1	A	1057	ASN
1	A	1130	ASN
1	A	1199	ASN
1	A	1206	ASN
1	A	1307	GLN
1	A	1350	GLN
1	A	1404	GLN
1	A	1418	HIS
1	A	1443	HIS
1	A	1514	ASN
2	B	87	GLN
2	B	122	ASN
2	B	211	ASN
2	B	227	GLN
2	B	264	ASN
2	B	383	ASN
2	B	392	GLN
2	B	402	ASN
2	B	442	HIS
2	B	448	HIS
2	B	464	ASN
2	B	541	GLN
2	B	551	GLN
2	B	571	GLN
2	B	582	ASN
2	B	634	ASN
3	C	52	ASN
3	C	74	GLN
3	C	103	HIS
3	C	162	GLN
1	D	20	GLN
1	D	30	GLN
1	D	89	GLN
1	D	118	GLN
1	D	146	GLN
1	D	185	HIS
1	D	424	ASN
1	D	439	ASN
1	D	503	GLN

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Mol	Chain	Res	Type
1	D	526	ASN
1	D	577	ASN
1	D	997	ASN
1	D	1005	ASN
1	D	1012	ASN
1	D	1057	ASN
1	D	1199	ASN
1	D	1206	ASN
1	D	1307	GLN
1	D	1350	GLN
1	D	1404	GLN
1	D	1418	HIS
1	D	1443	HIS
1	D	1514	ASN
2	E	71	ASN
2	E	87	GLN
2	E	211	ASN
2	E	227	GLN
2	E	231	HIS
2	E	240	GLN
2	E	248	ASN
2	E	293	GLN
2	E	373	GLN
2	E	383	ASN
2	E	487	GLN
2	E	554	ASN
2	E	583	HIS
2	E	601	HIS
2	E	605	GLN
2	E	651	GLN
2	E	653	ASN
2	E	660	HIS
2	E	670	ASN
2	E	684	ASN
2	E	705	GLN
3	F	52	ASN
3	F	74	GLN
3	F	103	HIS
3	F	162	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	7
1	D	7

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	389:UNK	C	412:GLY	N	30.55
1	D	389:UNK	C	412:GLY	N	30.55
1	A	351:UNK	C	377:UNK	N	20.14
1	D	351:UNK	C	377:UNK	N	20.14
1	A	892:UNK	C	896:UNK	N	9.23
1	D	892:UNK	C	896:UNK	N	9.23
1	A	736:UNK	C	742:UNK	N	8.51
1	D	736:UNK	C	742:UNK	N	8.51
1	A	304:UNK	C	318:UNK	N	5.25
1	D	304:UNK	C	318:UNK	N	5.25

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	960:UNK	C	962:SER	N	5.02
1	D	960:UNK	C	962:SER	N	5.02
1	A	923:UNK	C	934:UNK	N	4.88
1	D	923:UNK	C	934:UNK	N	4.88

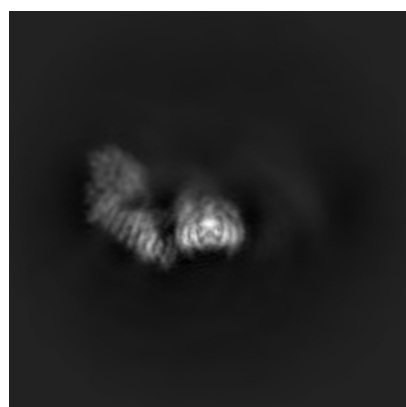
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-10498. These allow visual inspection of the internal detail of the map and identification of artifacts.

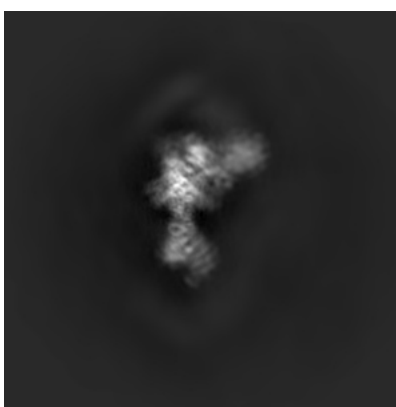
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

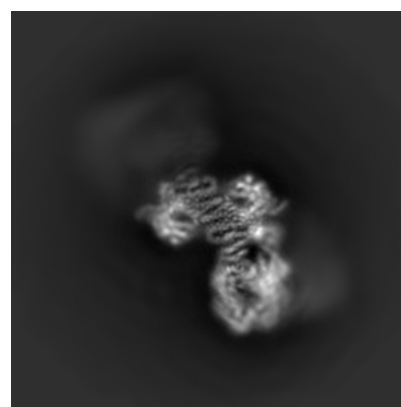
6.1.1 Primary map



X



Y

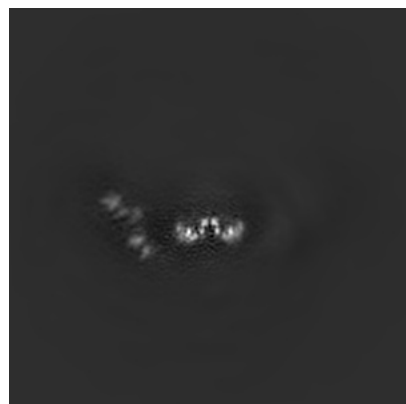


Z

The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

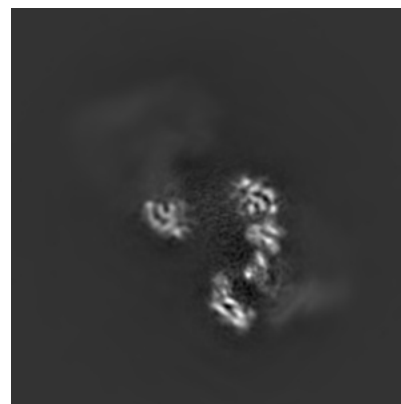
6.2.1 Primary map



X Index: 141



Y Index: 141



Z Index: 141

The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

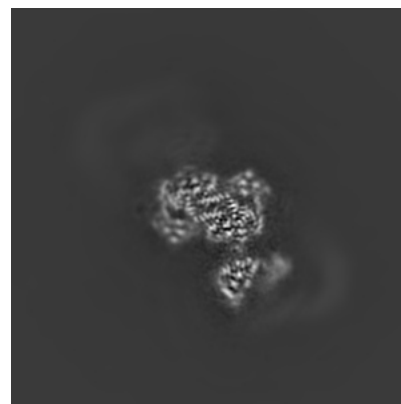
6.3.1 Primary map



X Index: 156



Y Index: 124



Z Index: 124

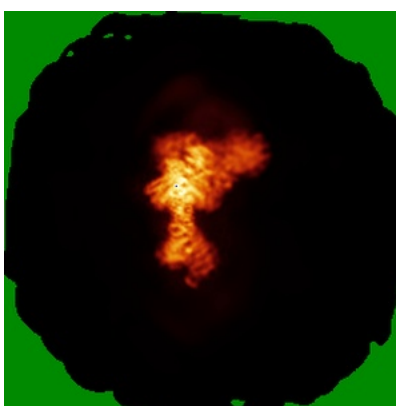
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

6.4.1 Primary map



X



Y

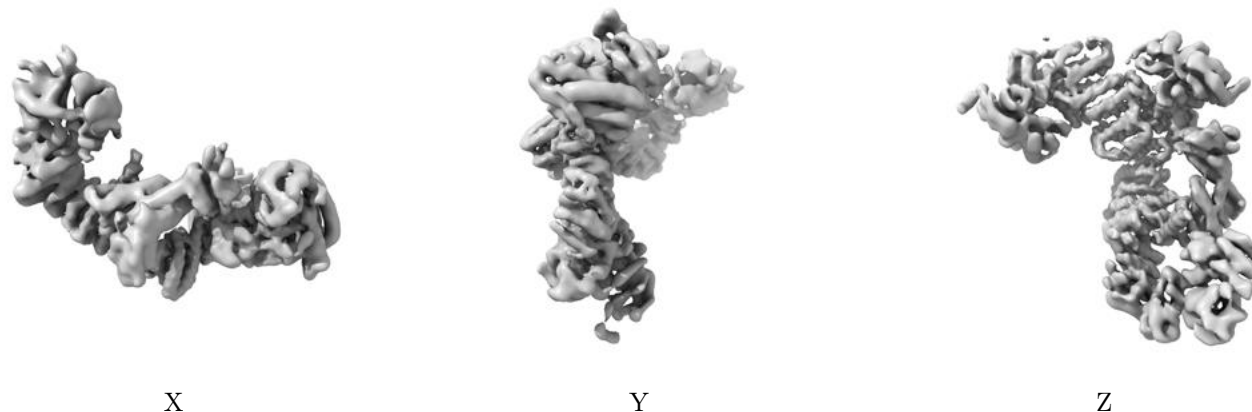


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.04. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

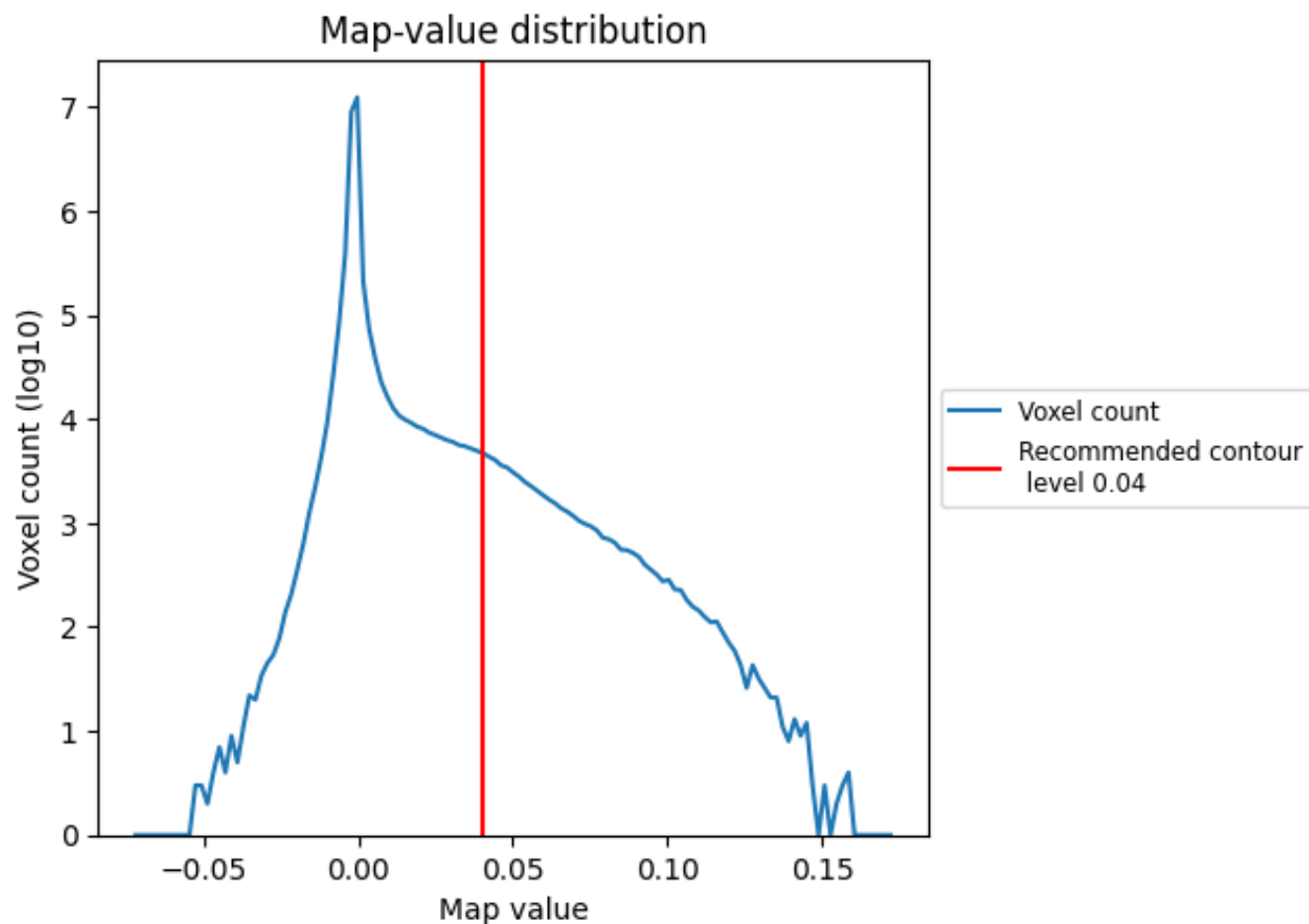
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

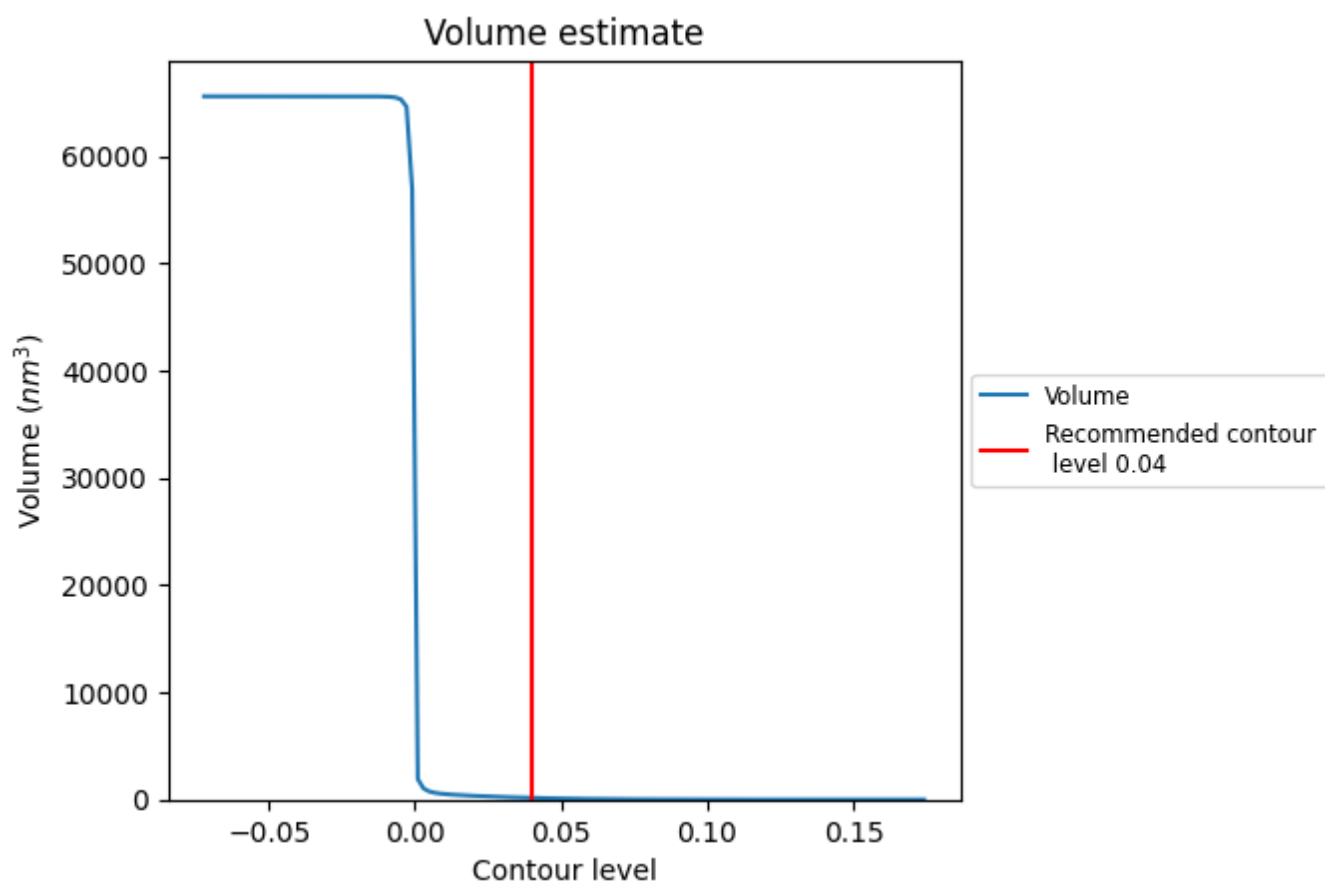
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

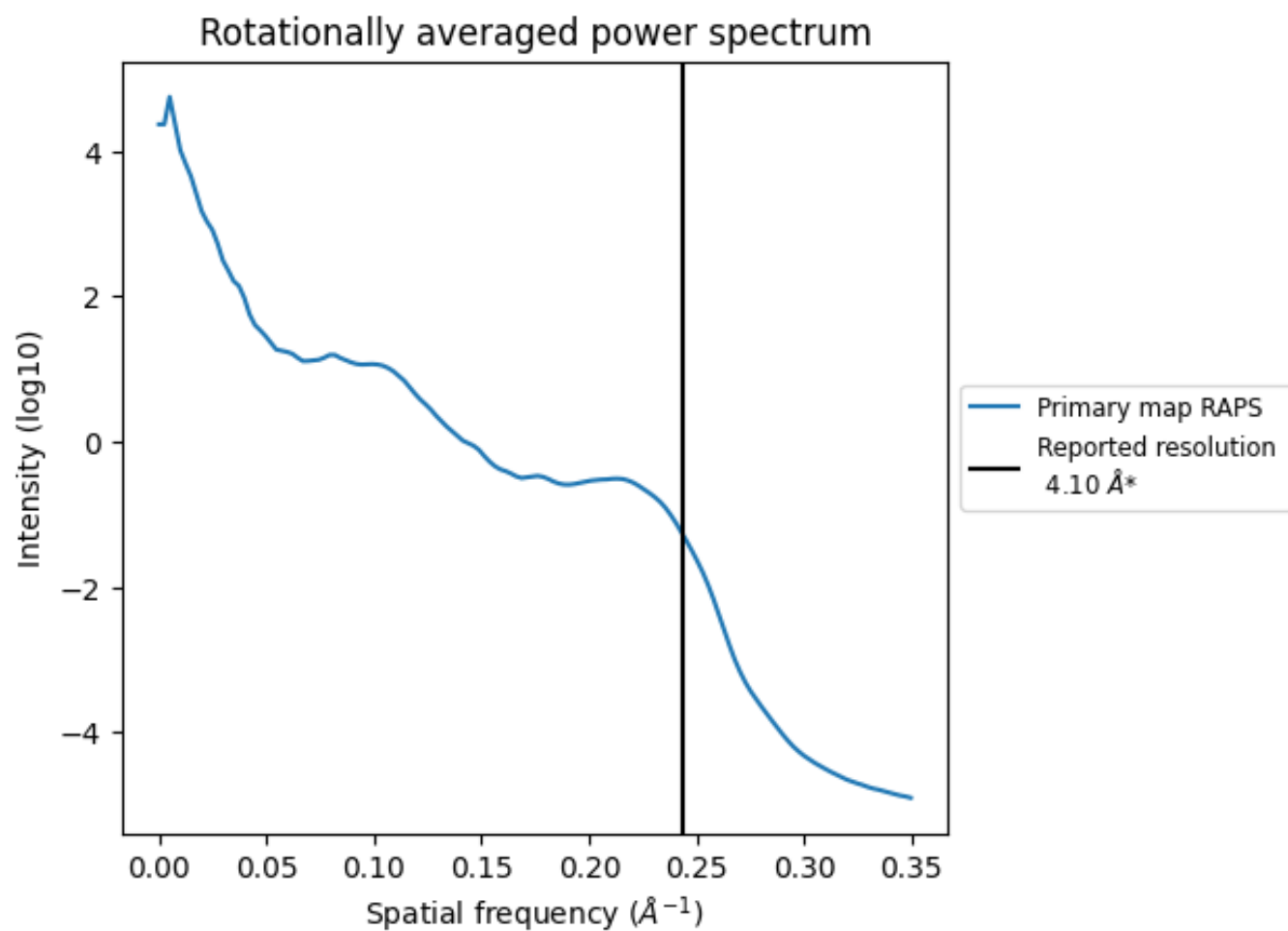
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 158 nm³; this corresponds to an approximate mass of 143 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.244 Å⁻¹

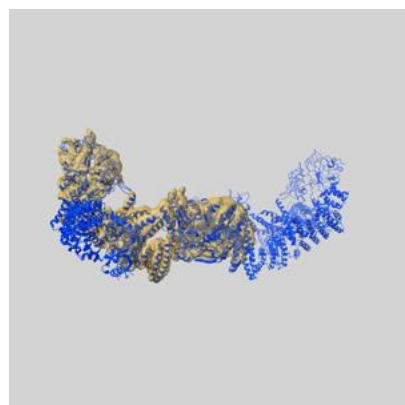
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

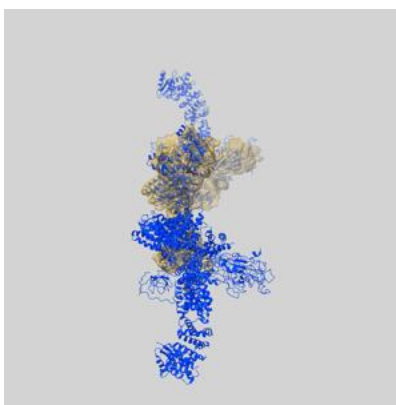
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-10498 and PDB model 6TGC. Per-residue inclusion information can be found in [section 3](#) on [page 30](#).

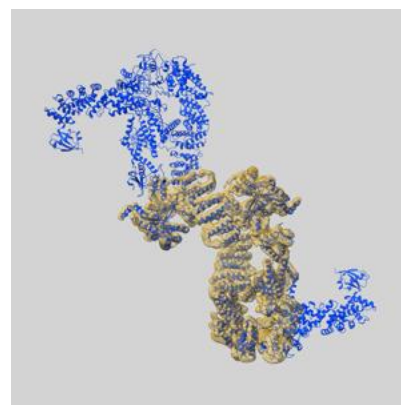
9.1 Map-model overlay [i](#)



X



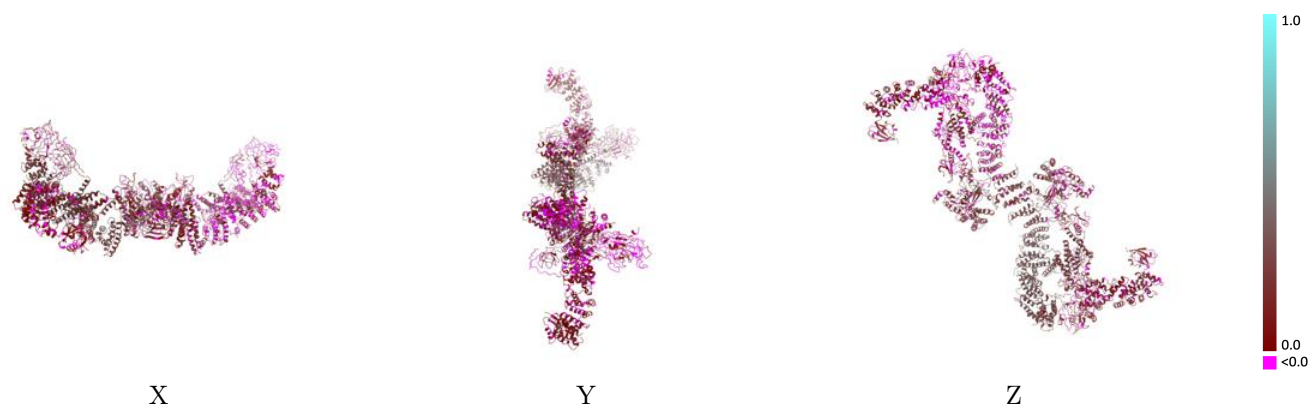
Y



Z

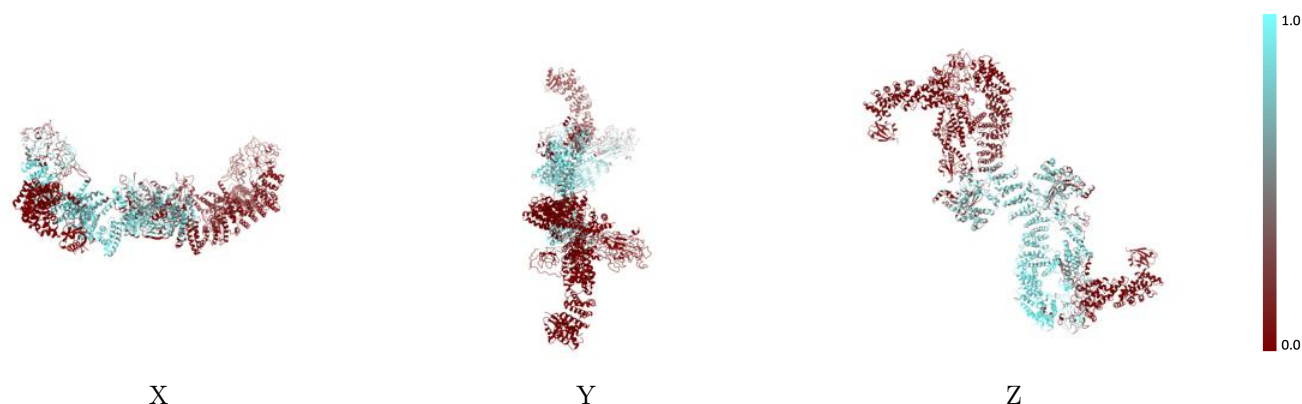
The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



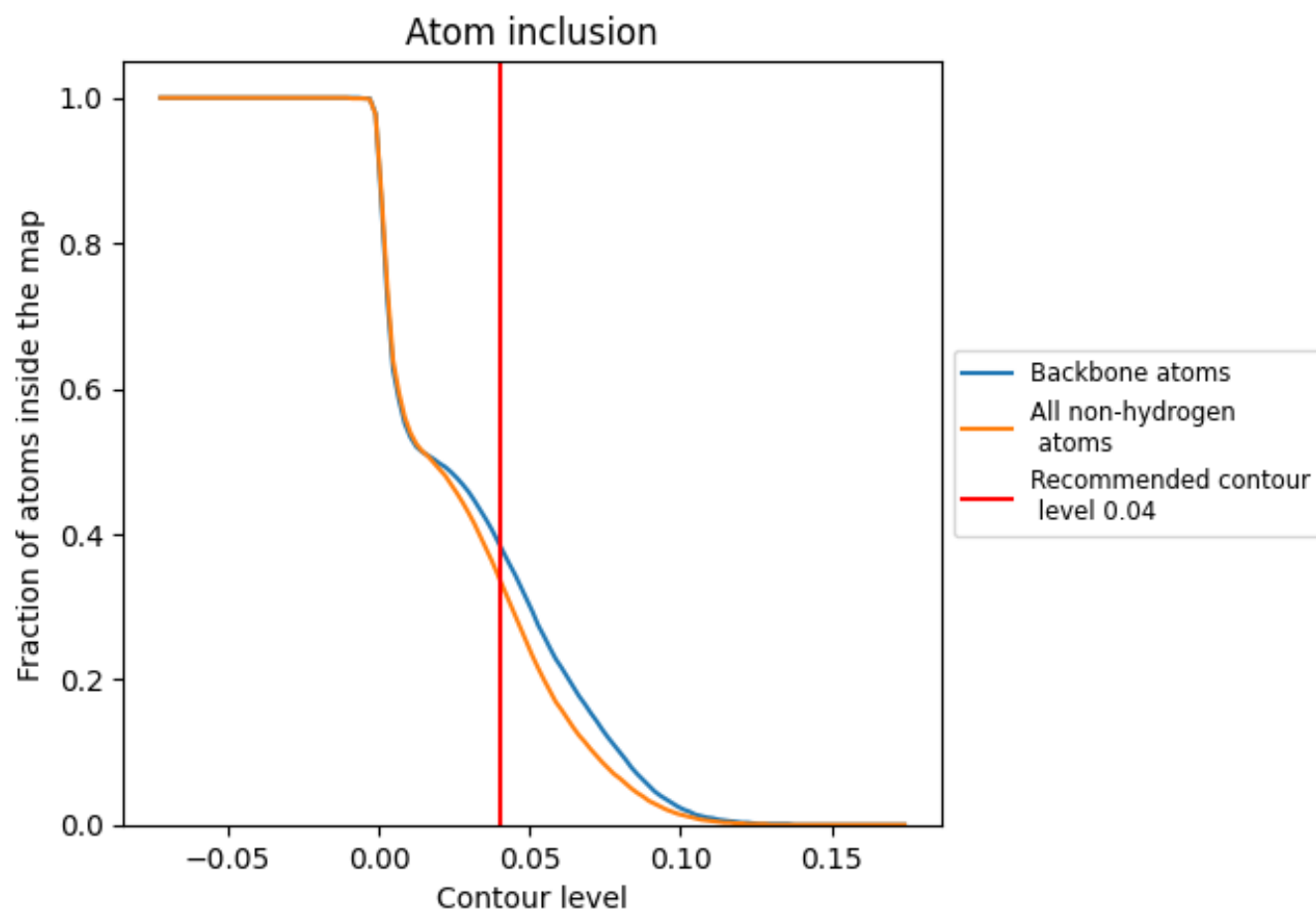
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.04).

9.4 Atom inclusion [i](#)



At the recommended contour level, 39% of all backbone atoms, 34% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.3390	0.1290
A	0.2110	0.0740
B	0.0010	0.0570
C	0.4220	0.1730
D	0.6980	0.2220
E	0.1610	0.1160
F	0.4460	0.1180

1.0

0.0

<0.0