



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 5, 2022 – 10:12 am BST

PDB ID : 7O3L
Title : Crystal Structure of AcrB Double Mutant
Authors : Ababou, A.
Deposited on : 2021-04-02
Resolution : 3.53 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.27
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0267
CCP4 : 7.1.010 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.27

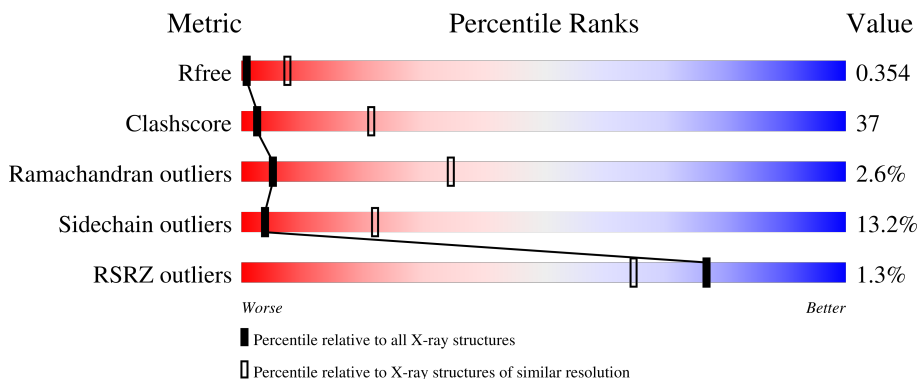
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.53 Å.

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




Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1161 (3.60-3.44)
Clashscore	141614	1244 (3.60-3.44)
Ramachandran outliers	138981	1206 (3.60-3.44)
Sidechain outliers	138945	1207 (3.60-3.44)
RSRZ outliers	127900	1080 (3.60-3.44)

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

Mol	Chain	Length	Quality of chain
1	A	1069	 3% 35% 52% 10%
1	B	1069	 3% 36% 51% 10%
1	C	1069	 3% 32% 55% 10%
1	D	1069	 0% 42% 48% 7%
1	E	1069	 0% 44% 46% 8%

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Mol	Chain	Length	Quality of chain
1	F	1069	 41% 48% 8% ..

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	LMT	A	2000	X	-	-	-
2	LMT	B	2000	X	-	-	-
2	LMT	C	2000	X	-	-	-
2	LMT	D	2000	X	-	-	-
2	LMT	E	2000	X	-	-	-
2	LMT	F	2000	X	-	-	-

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 47722 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Efflux pump membrane transporter.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	1044	7930	5093	1315	1479	43	0	0	0
1	B	1042	7913	5083	1311	1476	43	0	0	0
1	C	1042	7913	5083	1311	1476	43	0	0	0
1	D	1044	7930	5093	1315	1479	43	0	0	0
1	E	1042	7913	5083	1311	1476	43	0	0	0
1	F	1042	7913	5083	1311	1476	43	0	0	0

There are 132 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-19	MET	-	initiating methionine	UNP E2QH56
A	-18	GLY	-	expression tag	UNP E2QH56
A	-17	SER	-	expression tag	UNP E2QH56
A	-16	SER	-	expression tag	UNP E2QH56
A	-15	HIS	-	expression tag	UNP E2QH56
A	-14	HIS	-	expression tag	UNP E2QH56
A	-13	HIS	-	expression tag	UNP E2QH56
A	-12	HIS	-	expression tag	UNP E2QH56
A	-11	HIS	-	expression tag	UNP E2QH56
A	-10	HIS	-	expression tag	UNP E2QH56
A	-9	SER	-	expression tag	UNP E2QH56
A	-8	SER	-	expression tag	UNP E2QH56
A	-7	GLY	-	expression tag	UNP E2QH56
A	-6	LEU	-	expression tag	UNP E2QH56
A	-5	VAL	-	expression tag	UNP E2QH56
A	-4	PRO	-	expression tag	UNP E2QH56
A	-3	ARG	-	expression tag	UNP E2QH56

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Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP E2QH56
A	-1	SER	-	expression tag	UNP E2QH56
A	0	HIS	-	expression tag	UNP E2QH56
A	615	ALA	PHE	engineered mutation	UNP E2QH56
A	617	ALA	PHE	engineered mutation	UNP E2QH56
B	-19	MET	-	initiating methionine	UNP E2QH56
B	-18	GLY	-	expression tag	UNP E2QH56
B	-17	SER	-	expression tag	UNP E2QH56
B	-16	SER	-	expression tag	UNP E2QH56
B	-15	HIS	-	expression tag	UNP E2QH56
B	-14	HIS	-	expression tag	UNP E2QH56
B	-13	HIS	-	expression tag	UNP E2QH56
B	-12	HIS	-	expression tag	UNP E2QH56
B	-11	HIS	-	expression tag	UNP E2QH56
B	-10	HIS	-	expression tag	UNP E2QH56
B	-9	SER	-	expression tag	UNP E2QH56
B	-8	SER	-	expression tag	UNP E2QH56
B	-7	GLY	-	expression tag	UNP E2QH56
B	-6	LEU	-	expression tag	UNP E2QH56
B	-5	VAL	-	expression tag	UNP E2QH56
B	-4	PRO	-	expression tag	UNP E2QH56
B	-3	ARG	-	expression tag	UNP E2QH56
B	-2	GLY	-	expression tag	UNP E2QH56
B	-1	SER	-	expression tag	UNP E2QH56
B	0	HIS	-	expression tag	UNP E2QH56
B	615	ALA	PHE	engineered mutation	UNP E2QH56
B	617	ALA	PHE	engineered mutation	UNP E2QH56
C	-19	MET	-	initiating methionine	UNP E2QH56
C	-18	GLY	-	expression tag	UNP E2QH56
C	-17	SER	-	expression tag	UNP E2QH56
C	-16	SER	-	expression tag	UNP E2QH56
C	-15	HIS	-	expression tag	UNP E2QH56
C	-14	HIS	-	expression tag	UNP E2QH56
C	-13	HIS	-	expression tag	UNP E2QH56
C	-12	HIS	-	expression tag	UNP E2QH56
C	-11	HIS	-	expression tag	UNP E2QH56
C	-10	HIS	-	expression tag	UNP E2QH56
C	-9	SER	-	expression tag	UNP E2QH56
C	-8	SER	-	expression tag	UNP E2QH56
C	-7	GLY	-	expression tag	UNP E2QH56
C	-6	LEU	-	expression tag	UNP E2QH56
C	-5	VAL	-	expression tag	UNP E2QH56

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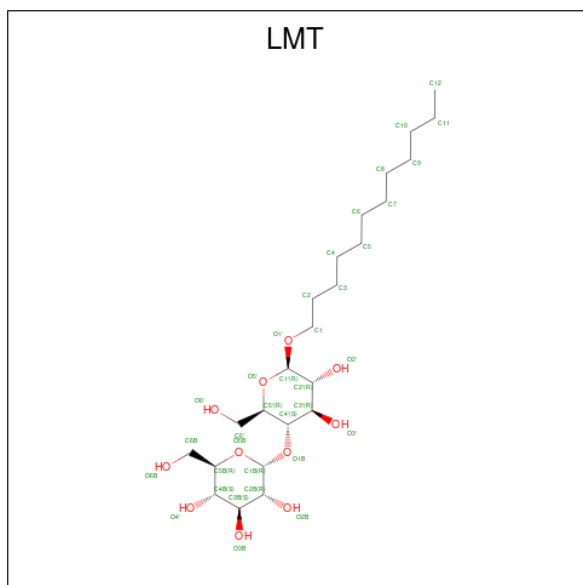
Chain	Residue	Modelled	Actual	Comment	Reference
C	-4	PRO	-	expression tag	UNP E2QH56
C	-3	ARG	-	expression tag	UNP E2QH56
C	-2	GLY	-	expression tag	UNP E2QH56
C	-1	SER	-	expression tag	UNP E2QH56
C	0	HIS	-	expression tag	UNP E2QH56
C	615	ALA	PHE	engineered mutation	UNP E2QH56
C	617	ALA	PHE	engineered mutation	UNP E2QH56
D	-19	MET	-	initiating methionine	UNP E2QH56
D	-18	GLY	-	expression tag	UNP E2QH56
D	-17	SER	-	expression tag	UNP E2QH56
D	-16	SER	-	expression tag	UNP E2QH56
D	-15	HIS	-	expression tag	UNP E2QH56
D	-14	HIS	-	expression tag	UNP E2QH56
D	-13	HIS	-	expression tag	UNP E2QH56
D	-12	HIS	-	expression tag	UNP E2QH56
D	-11	HIS	-	expression tag	UNP E2QH56
D	-10	HIS	-	expression tag	UNP E2QH56
D	-9	SER	-	expression tag	UNP E2QH56
D	-8	SER	-	expression tag	UNP E2QH56
D	-7	GLY	-	expression tag	UNP E2QH56
D	-6	LEU	-	expression tag	UNP E2QH56
D	-5	VAL	-	expression tag	UNP E2QH56
D	-4	PRO	-	expression tag	UNP E2QH56
D	-3	ARG	-	expression tag	UNP E2QH56
D	-2	GLY	-	expression tag	UNP E2QH56
D	-1	SER	-	expression tag	UNP E2QH56
D	0	HIS	-	expression tag	UNP E2QH56
D	615	ALA	PHE	engineered mutation	UNP E2QH56
D	617	ALA	PHE	engineered mutation	UNP E2QH56
E	-19	MET	-	initiating methionine	UNP E2QH56
E	-18	GLY	-	expression tag	UNP E2QH56
E	-17	SER	-	expression tag	UNP E2QH56
E	-16	SER	-	expression tag	UNP E2QH56
E	-15	HIS	-	expression tag	UNP E2QH56
E	-14	HIS	-	expression tag	UNP E2QH56
E	-13	HIS	-	expression tag	UNP E2QH56
E	-12	HIS	-	expression tag	UNP E2QH56
E	-11	HIS	-	expression tag	UNP E2QH56
E	-10	HIS	-	expression tag	UNP E2QH56
E	-9	SER	-	expression tag	UNP E2QH56
E	-8	SER	-	expression tag	UNP E2QH56
E	-7	GLY	-	expression tag	UNP E2QH56

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Chain	Residue	Modelled	Actual	Comment	Reference
E	-6	LEU	-	expression tag	UNP E2QH56
E	-5	VAL	-	expression tag	UNP E2QH56
E	-4	PRO	-	expression tag	UNP E2QH56
E	-3	ARG	-	expression tag	UNP E2QH56
E	-2	GLY	-	expression tag	UNP E2QH56
E	-1	SER	-	expression tag	UNP E2QH56
E	0	HIS	-	expression tag	UNP E2QH56
E	615	ALA	PHE	engineered mutation	UNP E2QH56
E	617	ALA	PHE	engineered mutation	UNP E2QH56
F	-19	MET	-	initiating methionine	UNP E2QH56
F	-18	GLY	-	expression tag	UNP E2QH56
F	-17	SER	-	expression tag	UNP E2QH56
F	-16	SER	-	expression tag	UNP E2QH56
F	-15	HIS	-	expression tag	UNP E2QH56
F	-14	HIS	-	expression tag	UNP E2QH56
F	-13	HIS	-	expression tag	UNP E2QH56
F	-12	HIS	-	expression tag	UNP E2QH56
F	-11	HIS	-	expression tag	UNP E2QH56
F	-10	HIS	-	expression tag	UNP E2QH56
F	-9	SER	-	expression tag	UNP E2QH56
F	-8	SER	-	expression tag	UNP E2QH56
F	-7	GLY	-	expression tag	UNP E2QH56
F	-6	LEU	-	expression tag	UNP E2QH56
F	-5	VAL	-	expression tag	UNP E2QH56
F	-4	PRO	-	expression tag	UNP E2QH56
F	-3	ARG	-	expression tag	UNP E2QH56
F	-2	GLY	-	expression tag	UNP E2QH56
F	-1	SER	-	expression tag	UNP E2QH56
F	0	HIS	-	expression tag	UNP E2QH56
F	615	ALA	PHE	engineered mutation	UNP E2QH56
F	617	ALA	PHE	engineered mutation	UNP E2QH56

- Molecule 2 is DODECYL-BETA-D-MALTOSE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}$).

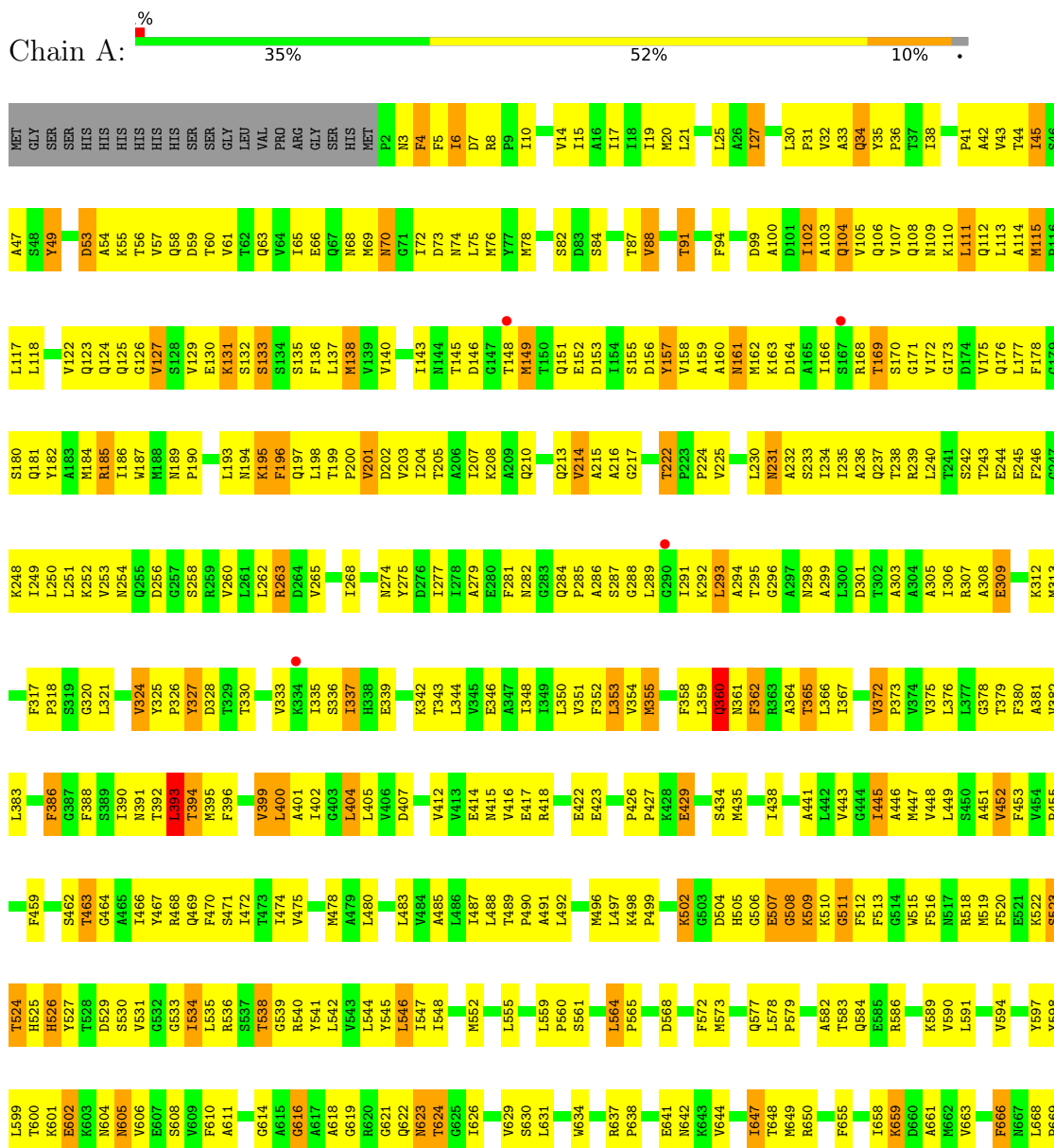


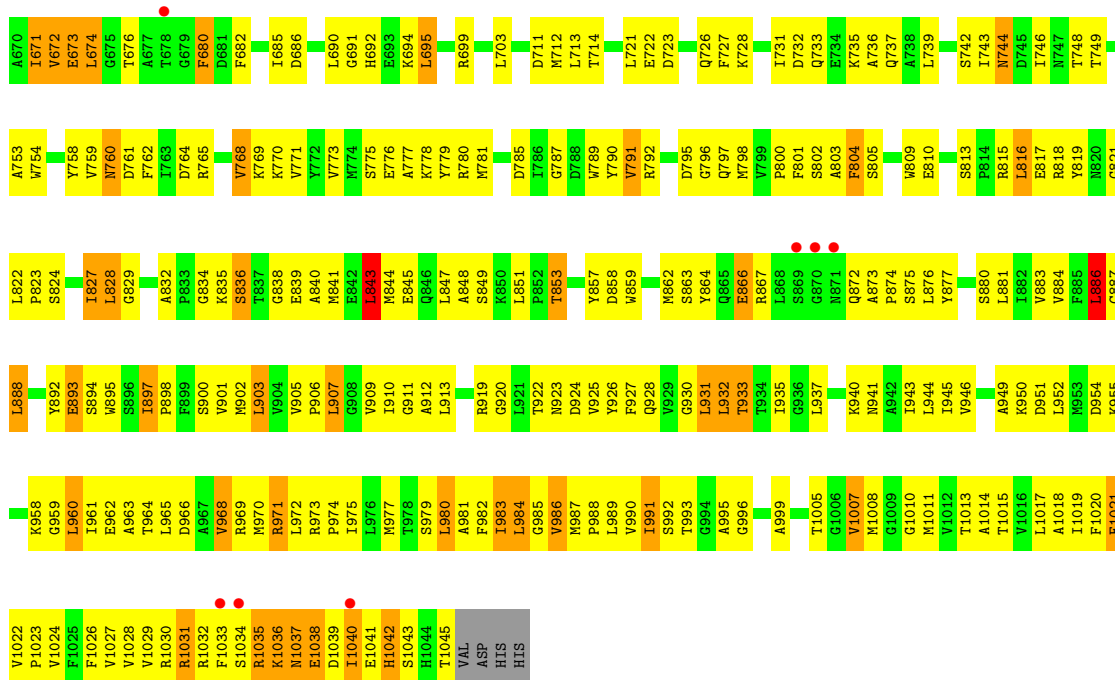
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			35	24	11		
2	B	1	Total	C	O	0	0
			35	24	11		
2	C	1	Total	C	O	0	0
			35	24	11		
2	D	1	Total	C	O	0	0
			35	24	11		
2	E	1	Total	C	O	0	0
			35	24	11		
2	F	1	Total	C	O	0	0
			35	24	11		

3 Residue-property plots

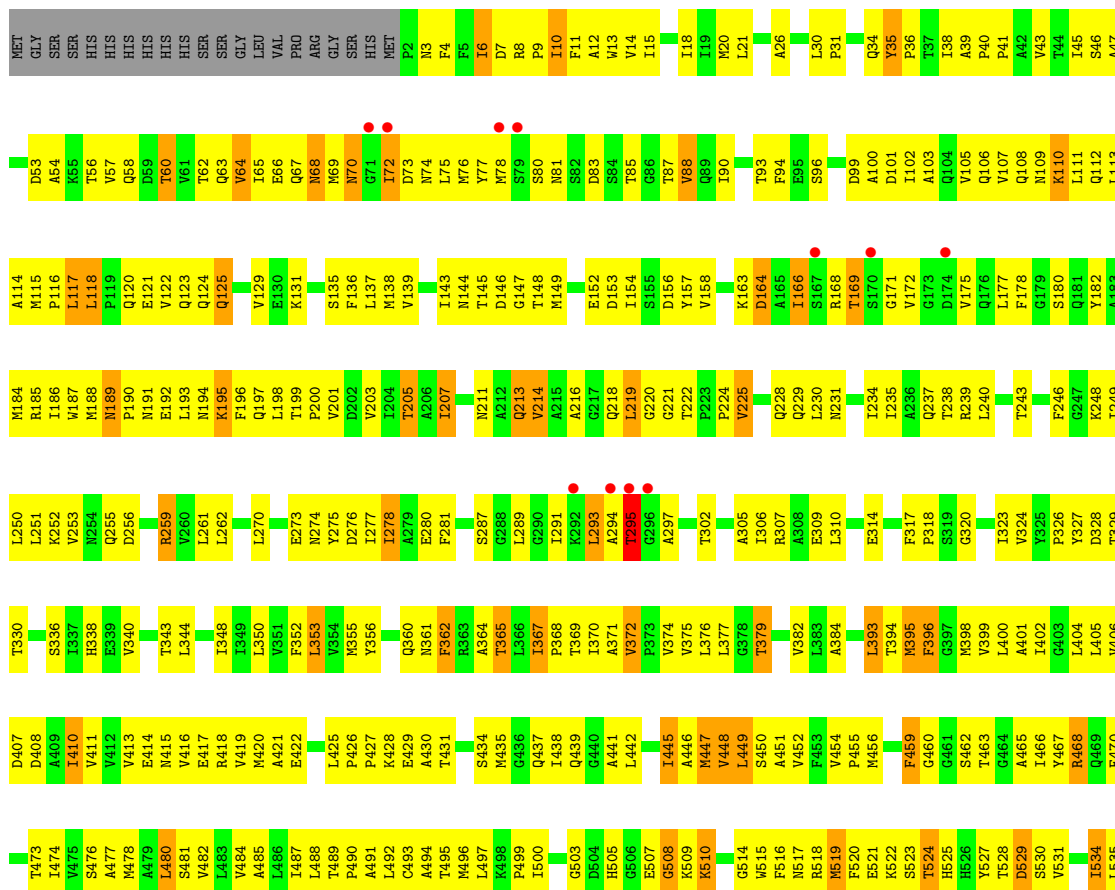
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

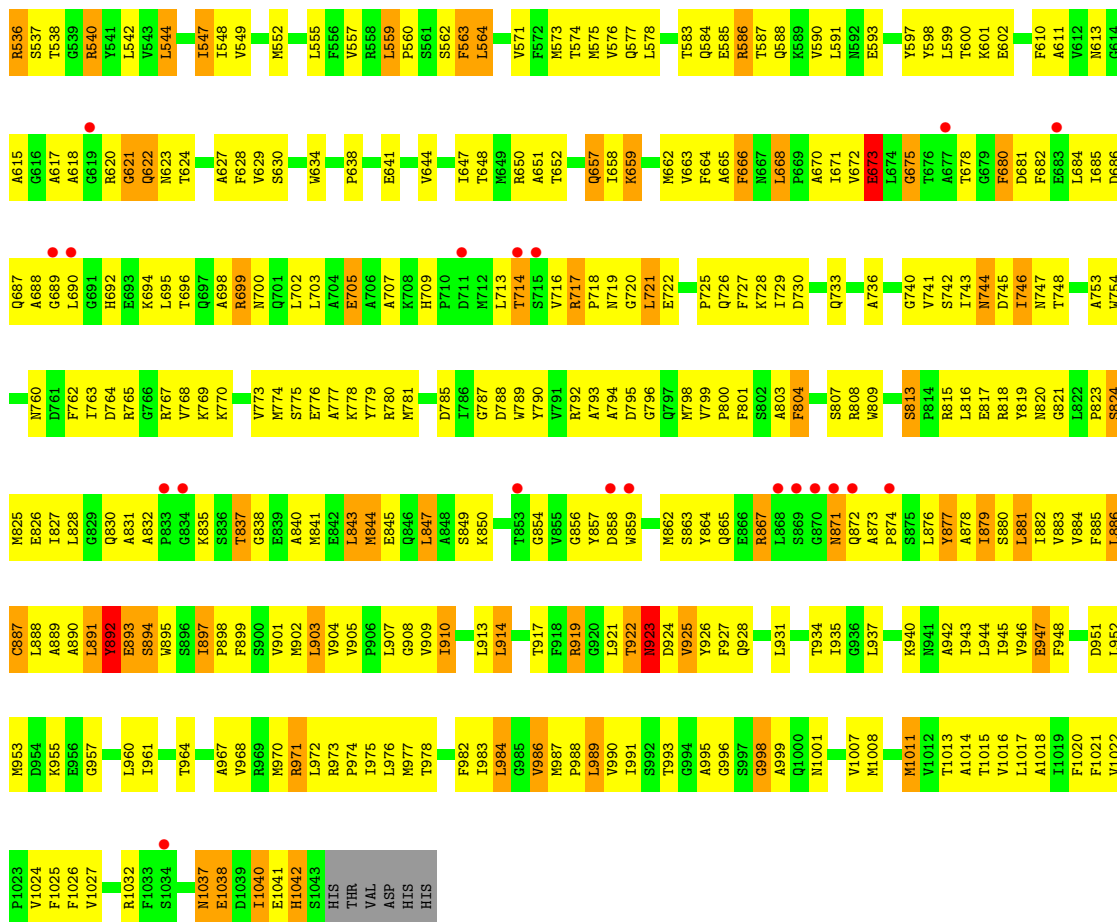
- Molecule 1: Efflux pump membrane transporter



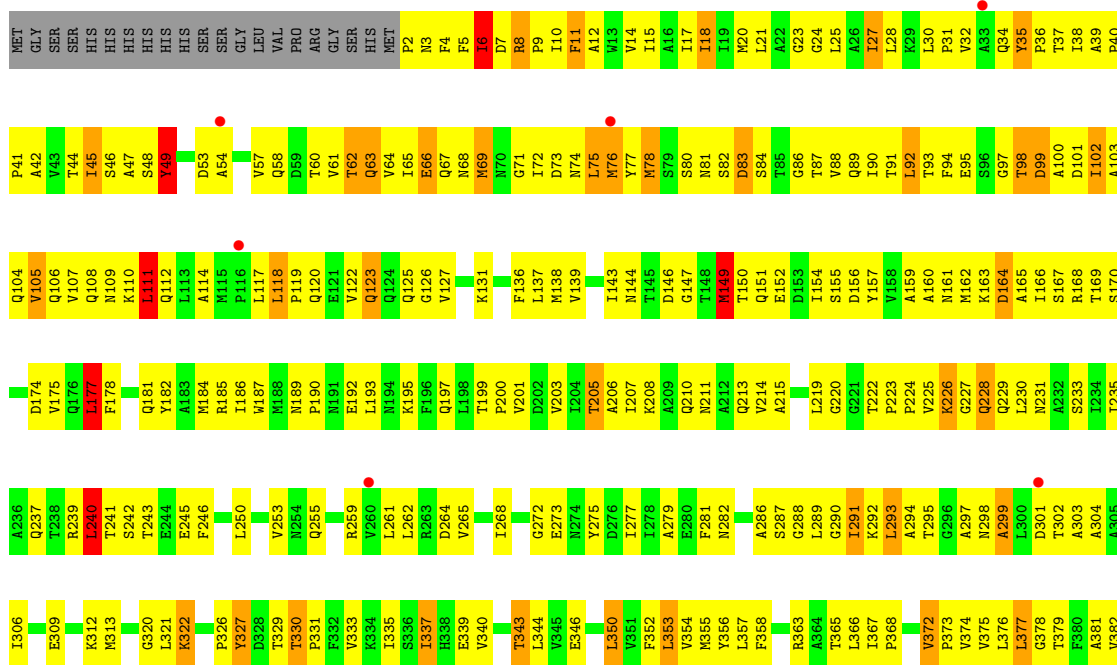
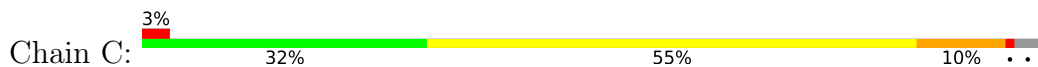


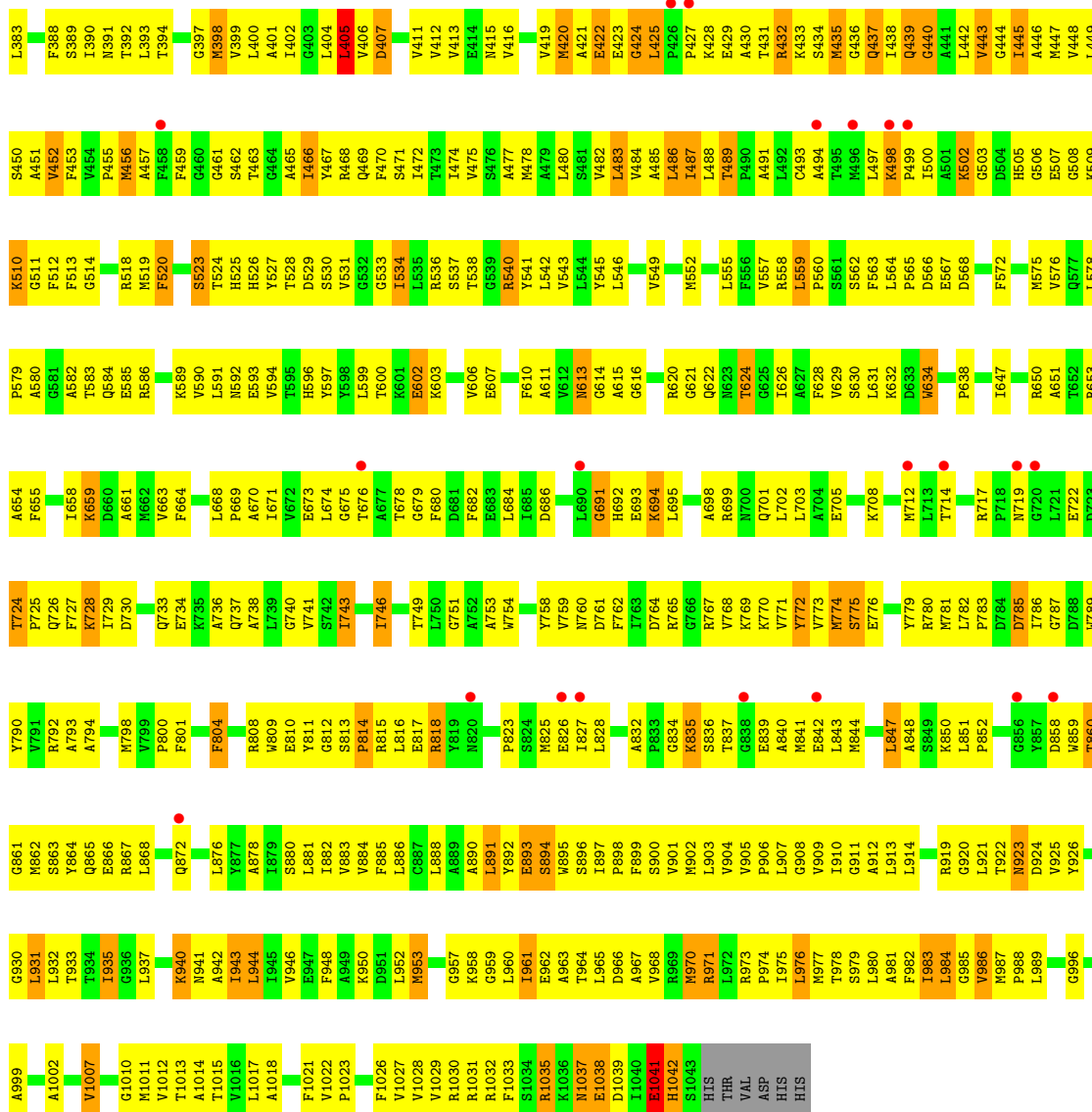
● Molecule 1: Efflux pump membrane transporter



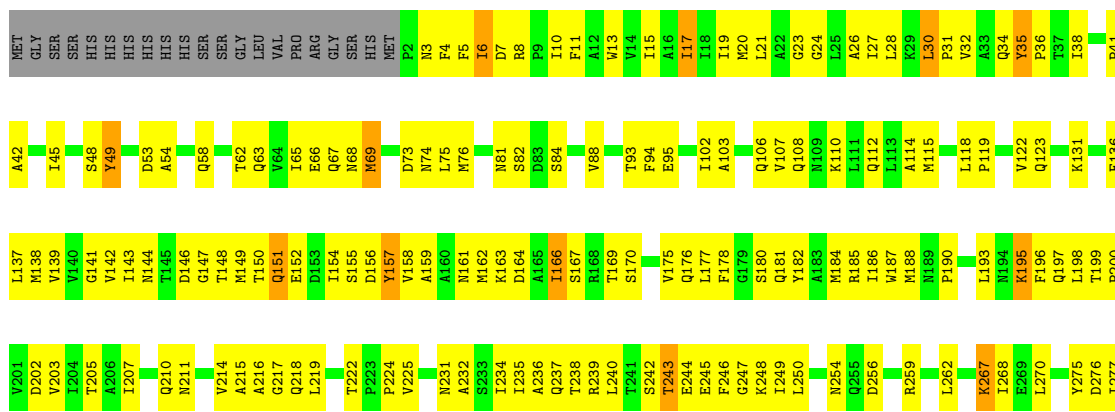


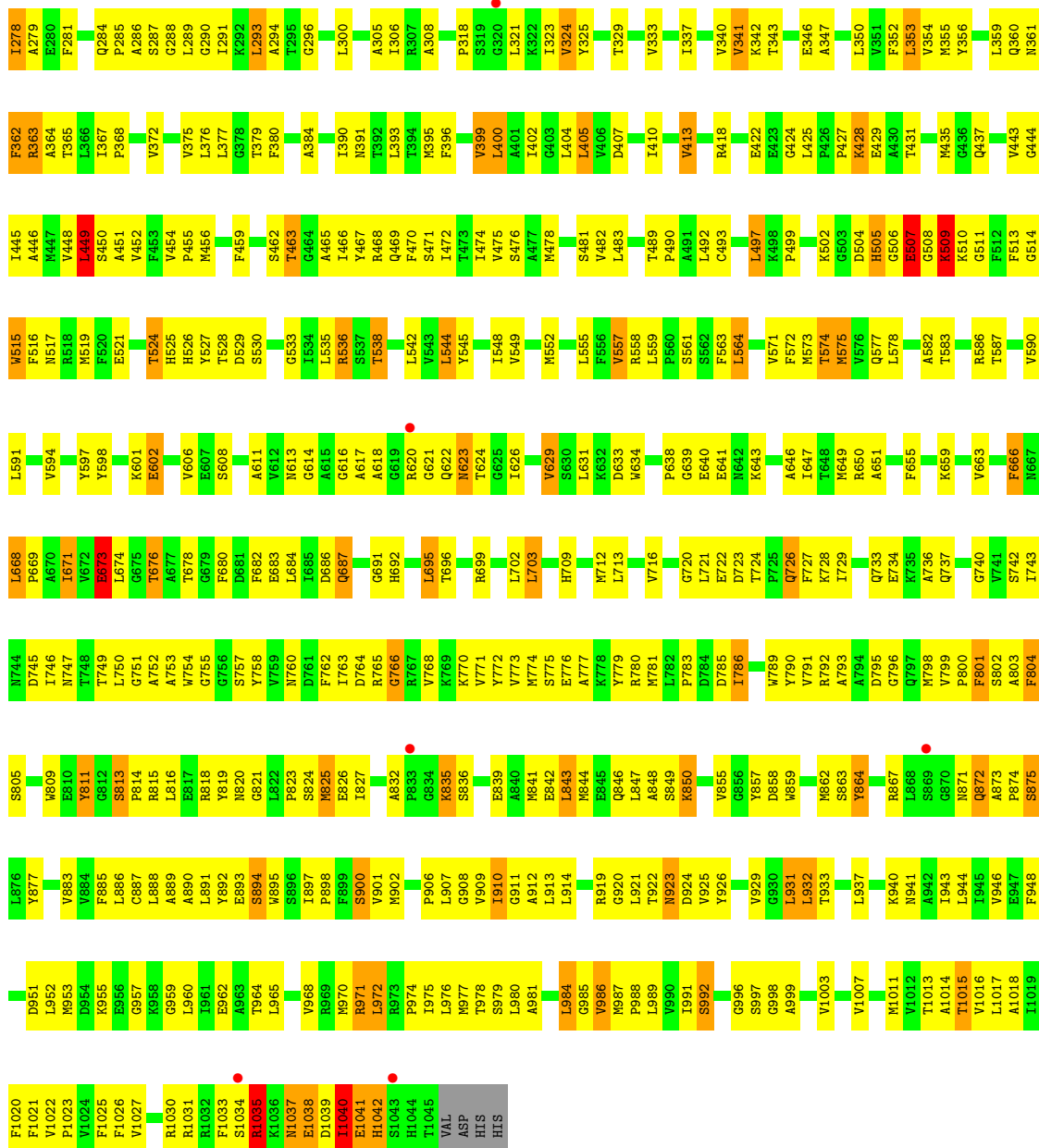
• Molecule 1: Efflux pump membrane transporter



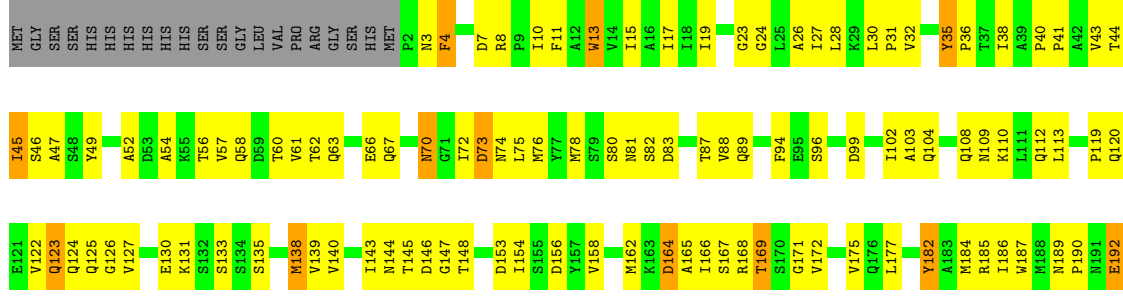


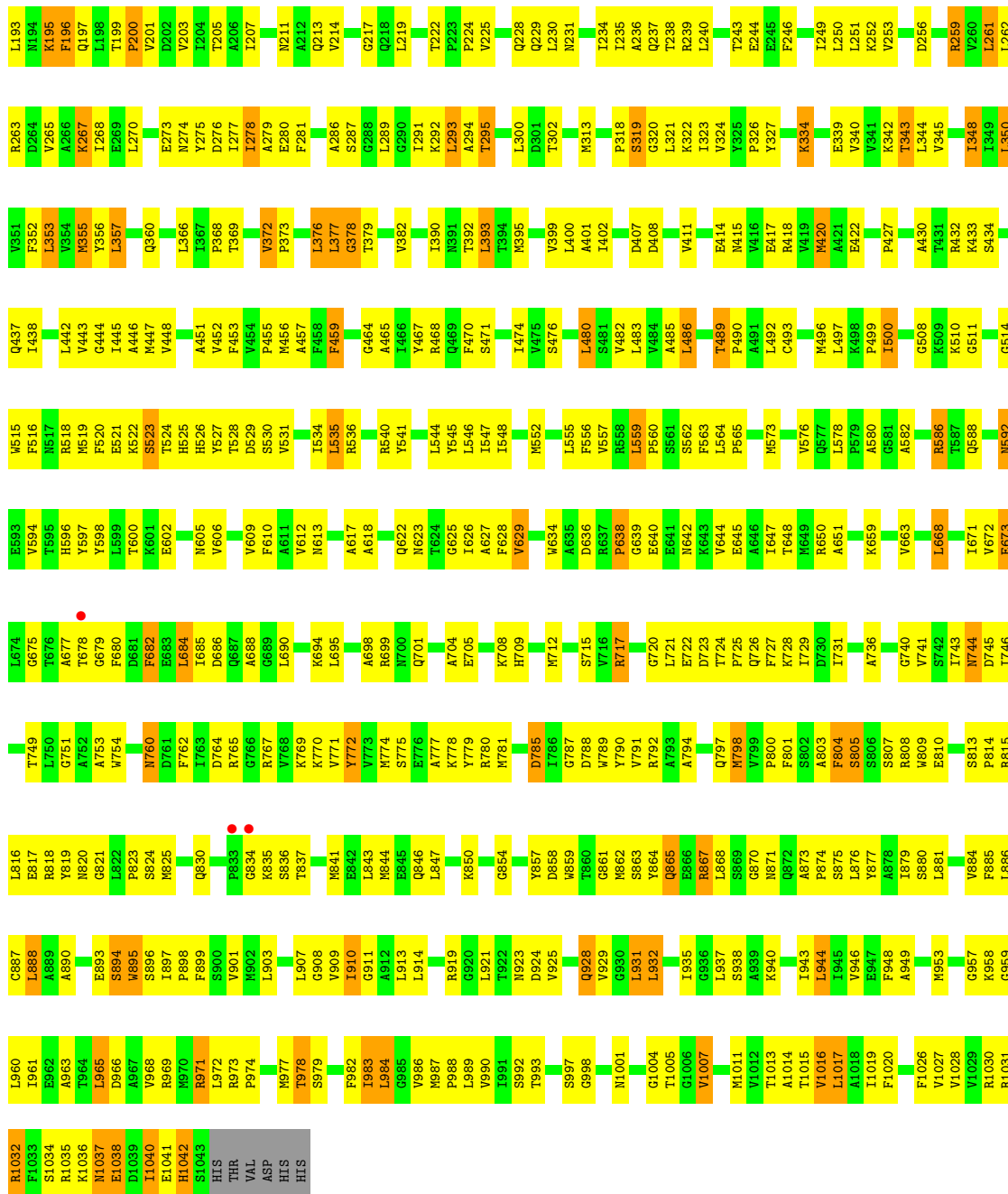
● Molecule 1: Efflux pump membrane transporter



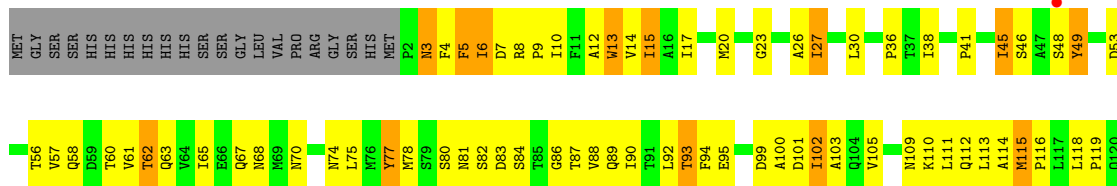


● Molecule 1: Efflux pump membrane transporter





● Molecule 1: Efflux pump membrane transporter



V1016	V1017	A1018	I1019	F1020	F1021	F1022	F1023	V1024	V1027	V1028	R1031	R1032	F1033	S1034	R1035	K1036	M1037	E1038	D1039	I1040	E1041	H1042	S1043	HIS	THR	VAL	ASP	HIS	HIS																									
V946	E947	F948	L952	M953	D954	K955	E956	A990	L891	G959	L961	E962	A963	T964	L965	V968	R971	L972	R973	P974	L975	M976	M977	T978	S979	A912	L913	L914	A915	L984	G985	G986	M987	P988	L989	V990	S992	A995	G996	S997	G998	A999	Q1000	T1005	G1006	V1007	M1008	M1011	V1012	T1013	L944	I945		
L876	L879	S880	V684	F885	L886	S813	R814	R815	L816	E817	R818	V819	M820	E821	L822	P823	S824	M825	E826	A753	L827	Q830	P833	G834	R835	S836	T837	M841	E842	L843	M844	E845	Q846	L847	L851	M857	D858	M859	T860	G861	M862	S863	M864	Q865	E866	R867	L868	S869	G870	M871	Q872	L943	P874	S875
K728	L729	Q733	E734	L739	G740	V741	S742	L743	M744	N745	L746	M747	E748	L749	L750	G751	M752	M759	N760	M761	F762	G765	M766	R767	V768	M769	M770	M771	V772	V773	A777	K778	L779	R780	D785	L786	G787	D788	M789	L790	V791	R792	A793	M794	D795	G796	Q797	V799						
F572	M573	T574	M575	M576	M577	L578	P579	A580	K581	A582	T583	Q584	E585	R586	G589	V590	L591	H596	E602	R603	K606	V606	A611	M612	M613	A614	A615	A618	G619	R620	G621	G622	M623	T624	G625	L626	A627	S630	L631	R632	D633	M634	L721	E722	D723	T724	F725	E641	E642	M642				
C493	A494	T495	M496	L497	S500	A501	K502	G503	D504	H505	G506	E507	G508	K509	K510	K511	F512	F513	M519	L449	F520	S523	T524	H525	H526	Y527	T528	D529	S530	V531	L534	L535	R540	Y541	L542	V543	L544	Y545	L546	L547	L548	L555	L559	P560	S561	S562	F563	L564	P565	D566	E567	D568		
M420	A421	E422	E423	G424	K425	E429	R432	K433	S434	I438	L442	V443	G444	I445	A446	V448	L449	S450	A451	V452	P453	V454	G463	G464	A465	I466	Q469	F470	S471	I472	T473	I474	V475	S476	A477	M478	A479	L480	S481	V482	L483	V484	A485	L486	I487	L488	T489							
I348	V351	F352	L353	V356	L357	F358	Q360	N361	F362	R363	A364	T365	P368	L289	T369	I370	A371	V372	P373	V374	V375	L376	L377	G378	F380	A381	R382	L383	A384	I390	L393	T394	M395	M398	V399	L400	A401	I402	G403	L404	L405	V406	D407	I410	V340	E414	M415	V416	E417	R418	V419			
V260	L261	L262	R263	D264	V265	A266	L268	I278	Q284	P285	A286	S287	G288	L289	G290	I291	K292	R293	I306	R307	L310	A311	E314	P315	F316	F317	L321	K322	I323	P326	T329	T330	P331	S336	I337	H338	E339	V340	V341	E414	M415	T343	L344	A347										
E121	V122	Q123	N124	Q125	G126	E130	K131	S134	L137	M138	V139	V140	M144	T145	D146	G147	T148	M149	T150	Q151	E152	D153	I154	S155	D156	V157	V158	A159	A160	M161	M162	K163	I166	T169	V172	G173	D174	L177	F178	G179	S180	Q181	Y182	A183	M184	R185	I186	M187	M188	M189	P190			
M191	E192	L193	N194	K195	F196	Q197	L198	T199	P200	V201	D202	V203	L204	T205	A206	Q210	N211	A212	Q213	V214	A215	A216	G217	Q218	L219	P222	R223	P224	R225	K226	I234	L235	A236	Q237	T238	R239	L240	E244	E245	F246	G247	K248	L249	L250	M251	K252	V253	M254	Q255	R259				

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	152.15Å 156.72Å 218.75Å 90.00° 92.40° 90.00°	Depositor
Resolution (Å)	19.93 – 3.53 19.93 – 3.53	Depositor EDS
% Data completeness (in resolution range)	99.8 (19.93-3.53) 99.8 (19.93-3.53)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.85 (at 3.52Å)	Xtrriage
Refinement program	PHENIX 1.8.2_1309	Depositor
R, R_{free}	0.264 , 0.354 0.264 , 0.354	Depositor DCC
R_{free} test set	6240 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	104.6	Xtrriage
Anisotropy	0.122	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	(Not available) , (Not available)	EDS
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.23$	Xtrriage
Estimated twinning fraction	0.060 for -k,-h,-l 0.074 for k,h,-l 0.074 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	47722	wwPDB-VP
Average B, all atoms (Å ²)	44.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 36.61 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 4.8693e-04.*

¹Intensities estimated from amplitudes.

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

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.67	1/8080 (0.0%)	0.92	10/10972 (0.1%)
1	B	0.67	1/8062 (0.0%)	0.93	14/10947 (0.1%)
1	C	0.68	0/8062	0.96	20/10947 (0.2%)
1	D	0.69	1/8080 (0.0%)	0.93	11/10972 (0.1%)
1	E	0.72	1/8062 (0.0%)	0.93	8/10947 (0.1%)
1	F	0.71	0/8062	0.95	11/10947 (0.1%)
All	All	0.69	4/48408 (0.0%)	0.94	74/65732 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	C	0	1
1	F	0	1
All	All	0	2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	515	TRP	CB-CG	8.43	1.65	1.50
1	E	895	TRP	CB-CG	7.59	1.64	1.50
1	B	13	TRP	CB-CG	-5.38	1.40	1.50
1	A	309	GLU	CB-CG	-5.29	1.42	1.52

All (74) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	483	LEU	CA-CB-CG	-10.27	91.69	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	111	LEU	CA-CB-CG	9.16	136.36	115.30
1	A	886	LEU	CA-CB-CG	9.03	136.07	115.30
1	C	483	LEU	CA-CB-CG	-8.58	95.56	115.30
1	A	393	LEU	CA-CB-CG	8.36	134.53	115.30
1	C	49	TYR	CA-CB-CG	8.25	129.08	113.40
1	F	111	LEU	CA-CB-CG	7.96	133.61	115.30
1	C	486	LEU	CA-CB-CG	7.00	131.40	115.30
1	F	971	ARG	NE-CZ-NH1	6.92	123.76	120.30
1	D	497	LEU	CA-CB-CG	6.70	130.71	115.30
1	A	977	MET	CB-CG-SD	-6.65	92.45	112.40
1	C	976	LEU	CA-CB-CG	-6.62	100.07	115.30
1	A	400	LEU	CA-CB-CG	6.62	130.53	115.30
1	D	544	LEU	CA-CB-CG	-6.60	100.12	115.30
1	E	932	LEU	CB-CG-CD1	-6.53	99.91	111.00
1	B	877	TYR	CA-CB-CG	-6.51	101.03	113.40
1	B	118	LEU	CA-CB-CG	6.49	130.22	115.30
1	C	424	GLY	N-CA-C	6.47	129.27	113.10
1	E	357	LEU	CA-CB-CG	6.46	130.17	115.30
1	C	75	LEU	CA-CB-CG	6.45	130.13	115.30
1	D	405	LEU	CB-CG-CD2	-6.28	100.33	111.00
1	A	546	LEU	CA-CB-CG	6.27	129.73	115.30
1	A	843	LEU	CA-CB-CG	6.13	129.40	115.30
1	C	111	LEU	CA-CB-CG	6.04	129.20	115.30
1	F	921	LEU	CA-CB-CG	6.04	129.18	115.30
1	C	177	LEU	CA-CB-CG	5.96	129.01	115.30
1	B	892	TYR	CA-CB-CG	5.90	124.62	113.40
1	B	891	LEU	CA-CB-CG	-5.87	101.79	115.30
1	E	888	LEU	CA-CB-CG	-5.81	101.94	115.30
1	D	673	GLU	N-CA-C	5.79	126.65	111.00
1	B	989	LEU	CA-CB-CG	5.77	128.58	115.30
1	C	440	GLY	N-CA-C	5.77	127.53	113.10
1	D	536	ARG	NE-CZ-NH2	-5.69	117.45	120.30
1	D	932	LEU	CA-CB-CG	5.67	128.34	115.30
1	A	932	LEU	CA-CB-CG	-5.64	102.32	115.30
1	D	449	LEU	CA-CB-CG	5.53	128.02	115.30
1	F	193	LEU	CA-CB-CG	5.50	127.95	115.30
1	B	219	LEU	CA-CB-CG	5.47	127.89	115.30
1	E	1037	ASN	C-N-CA	5.45	135.33	121.70
1	E	486	LEU	CA-CB-CG	-5.42	102.83	115.30
1	C	49	TYR	CB-CG-CD1	5.42	124.25	121.00
1	D	535	LEU	CB-CG-CD2	-5.41	101.80	111.00
1	B	998	GLY	N-CA-C	-5.41	99.58	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	355	MET	CB-CG-SD	-5.40	96.19	112.40
1	F	1038	GLU	C-N-CA	5.38	135.16	121.70
1	B	68	ASN	N-CA-C	5.37	125.51	111.00
1	C	118	LEU	CA-CB-CG	5.36	127.63	115.30
1	C	149	MET	N-CA-C	-5.33	96.60	111.00
1	C	405	LEU	CA-CB-CG	5.32	127.53	115.30
1	D	35	TYR	C-N-CD	5.31	139.55	128.40
1	B	989	LEU	CB-CG-CD1	-5.30	102.00	111.00
1	B	847	LEU	CA-CB-CG	5.27	127.43	115.30
1	F	348	ILE	CG1-CB-CG2	-5.25	99.85	111.40
1	C	439	GLN	N-CA-C	5.24	125.15	111.00
1	C	240	LEU	CA-CB-CG	5.24	127.35	115.30
1	E	350	LEU	CA-CB-CG	-5.24	103.26	115.30
1	D	755	GLY	N-CA-C	-5.21	100.07	113.10
1	C	691	GLY	N-CA-C	5.20	126.10	113.10
1	C	944	LEU	CA-CB-CG	5.20	127.25	115.30
1	D	30	LEU	CA-CB-CG	5.19	127.23	115.30
1	E	937	LEU	CA-CB-CG	-5.16	103.42	115.30
1	F	886	LEU	CA-CB-CG	5.16	127.16	115.30
1	B	1037	ASN	C-N-CA	5.14	134.55	121.70
1	B	529	ASP	CB-CG-OD1	5.13	122.92	118.30
1	F	344	LEU	CA-CB-CG	5.12	127.08	115.30
1	E	684	LEU	CA-CB-CG	-5.12	103.53	115.30
1	C	241	THR	N-CA-C	5.12	124.81	111.00
1	F	965	LEU	CA-CB-CG	-5.11	103.54	115.30
1	B	675	GLY	N-CA-C	-5.09	100.36	113.10
1	F	971	ARG	NE-CZ-NH2	-5.09	117.76	120.30
1	B	118	LEU	CB-CG-CD2	-5.06	102.39	111.00
1	C	847	LEU	CA-CB-CG	5.06	126.94	115.30
1	A	907	LEU	CA-CB-CG	5.05	126.91	115.30
1	A	828	LEU	CA-CB-CG	5.04	126.90	115.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	1041	GLU	Peptide
1	F	1041	GLU	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	7930	0	8072	634	1
1	B	7913	0	8058	686	1
1	C	7913	0	8058	747	0
1	D	7930	0	8072	547	0
1	E	7913	0	8058	494	0
1	F	7913	0	8058	571	0
2	A	35	0	46	7	0
2	B	35	0	46	3	0
2	C	35	0	46	5	0
2	D	35	0	46	4	0
2	E	35	0	46	17	0
2	F	35	0	46	2	0
All	All	47722	0	48652	3527	1

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

All (3527) 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:E:536:ARG:HH21	2:E:2000:LMT:C3B	1.42	1.33
1:E:536:ARG:NE	2:E:2000:LMT:H4B	1.48	1.26
1:E:536:ARG:HE	2:E:2000:LMT:C4B	1.56	1.19
1:A:541:TYR:OH	2:A:2000:LMT:H6E	1.41	1.18
1:C:74:ASN:HB3	1:C:95:GLU:HB2	1.34	1.10
1:E:536:ARG:HH21	2:E:2000:LMT:H3B	1.14	1.09
1:B:166:ILE:HA	1:B:309:GLU:HG2	1.37	1.07
1:E:536:ARG:NH2	2:E:2000:LMT:H3B	1.71	1.05
1:E:536:ARG:HH21	2:E:2000:LMT:C2B	1.70	1.05
1:E:4:PHE:HE1	1:E:8:ARG:HD2	1.23	1.04
1:E:156:ASP:OD1	1:E:765:ARG:NH2	1.92	1.02
1:C:452:VAL:HG12	1:C:884:VAL:HG21	1.40	1.01
1:E:536:ARG:NH2	2:E:2000:LMT:C3B	2.24	1.01
1:A:45:ILE:HG23	1:A:129:VAL:HG22	1.43	1.00
1:B:562:SER:HB3	1:B:924:ASP:HB3	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:391:ASN:HD21	1:A:393:LEU:HD22	1.26	1.00
1:C:905:VAL:HG23	1:C:906:PRO:HD3	1.42	0.99
1:E:376:LEU:O	1:E:378:GLY:N	1.95	0.99
1:F:352:PHE:HD1	1:F:369:THR:HG1	1.00	0.99
1:E:536:ARG:NH2	2:E:2000:LMT:O2B	1.95	0.99
1:C:63:GLN:HB2	1:C:818:ARG:HH22	1.29	0.98
1:C:525:HIS:NE2	1:C:529:ASP:OD2	1.97	0.97
1:D:781:MET:HE1	1:F:225:VAL:H	1.26	0.97
1:A:832:ALA:HB3	1:A:835:LYS:HD3	1.41	0.97
1:E:559:LEU:HD22	1:E:560:PRO:HD2	1.44	0.96
1:B:944:LEU:HD22	1:B:971:ARG:HH22	1.30	0.96
1:C:428:LYS:HG3	1:C:494:ALA:HB1	1.46	0.96
1:C:185:ARG:HD2	1:C:187:TRP:HE1	1.32	0.95
1:E:959:GLY:HA2	1:E:1040:ILE:HB	1.48	0.95
1:F:228:GLN:HE21	1:F:230:LEU:H	1.10	0.95
1:C:354:VAL:HG21	1:C:981:ALA:HA	1.51	0.93
1:C:74:ASN:O	1:C:95:GLU:N	2.01	0.93
1:A:541:TYR:HH	2:A:2000:LMT:H6E	1.34	0.92
1:B:108:GLN:HB2	1:B:129:VAL:HG11	1.52	0.92
1:E:536:ARG:HE	2:E:2000:LMT:H4B	0.76	0.91
1:E:699:ARG:HD3	1:E:825:MET:HE2	1.50	0.91
1:E:4:PHE:CE1	1:E:8:ARG:HD2	2.04	0.91
1:D:1038:GLU:HB3	1:D:1040:ILE:HA	1.51	0.91
1:B:427:PRO:HD3	1:B:499:PRO:HB3	1.52	0.90
1:B:753:ALA:O	1:B:775:SER:OG	1.86	0.90
1:C:901:VAL:HG23	1:C:942:ALA:HB3	1.50	0.90
1:B:278:ILE:HG23	1:B:613:ASN:HB3	1.51	0.90
1:D:424:GLY:HA3	1:D:502:LYS:HG2	1.54	0.90
1:E:156:ASP:OD2	1:E:769:LYS:NZ	2.03	0.90
1:D:448:VAL:HG22	1:D:887:CYS:HB3	1.51	0.90
1:B:685:ILE:HD11	1:B:819:TYR:HB3	1.53	0.89
1:B:901:VAL:HG23	1:B:942:ALA:HB3	1.53	0.89
1:C:45:ILE:HD12	1:C:90:ILE:HB	1.52	0.89
1:D:514:GLY:HA2	1:D:517:ASN:HD22	1.37	0.89
1:C:30:LEU:HD12	1:C:31:PRO:HD2	1.54	0.88
1:E:519:MET:O	1:E:523:SER:OG	1.91	0.88
1:C:350:LEU:HD23	1:C:985:GLY:HA2	1.55	0.88
1:C:578:LEU:HD21	1:C:590:VAL:HG21	1.55	0.87
1:B:428:LYS:HG2	1:B:494:ALA:HB1	1.54	0.87
1:C:228:GLN:OE1	1:C:230:LEU:N	2.07	0.87
1:C:75:LEU:HA	1:C:94:PHE:HA	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:360:GLN:HE22	1:D:517:ASN:HD21	1.17	0.87
1:E:344:LEU:HD23	1:E:402:ILE:HD11	1.55	0.87
1:A:541:TYR:OH	2:A:2000:LMT:C6'	2.23	0.86
1:F:240:LEU:HB2	1:F:246:PHE:CE1	2.10	0.86
1:A:519:MET:O	1:A:523:SER:OG	1.93	0.86
1:F:578:LEU:HD12	1:F:579:PRO:HD2	1.56	0.86
1:A:968:VAL:HA	1:A:971:ARG:HH22	1.40	0.86
1:C:907:LEU:HD23	1:C:1017:LEU:HB3	1.57	0.86
1:E:895:TRP:O	1:E:897:ILE:N	2.08	0.86
1:F:6:ILE:HG21	1:F:487:ILE:HG23	1.55	0.86
1:D:360:GLN:HE21	1:D:513:PHE:HB3	1.41	0.86
1:C:400:LEU:HD21	1:C:933:THR:HG21	1.57	0.86
1:F:38:ILE:HG23	1:F:462:SER:HB3	1.58	0.86
1:F:728:LYS:HG2	1:F:808:ARG:HH21	1.39	0.86
1:A:555:LEU:HD22	1:A:913:LEU:HB3	1.56	0.85
1:B:768:VAL:HG11	1:C:60:THR:HG23	1.57	0.85
1:A:170:SER:OG	1:B:75:LEU:N	2.09	0.85
1:E:372:VAL:HG23	1:E:373:PRO:HD3	1.58	0.85
1:C:719:ASN:ND2	1:C:817:GLU:OE1	2.10	0.85
1:F:184:MET:HB3	1:F:771:VAL:HG23	1.58	0.85
1:B:621:GLY:O	1:B:623:ASN:N	2.10	0.85
1:B:108:GLN:NE2	1:C:109:ASN:OD1	2.10	0.85
1:B:231:ASN:OD1	1:C:622:GLN:NE2	2.08	0.85
1:B:445:ILE:HG21	1:B:940:LYS:HZ2	1.40	0.85
1:F:263:ARG:NH1	1:F:264:ASP:OD1	2.10	0.85
1:A:156:ASP:OD2	1:A:769:LYS:NZ	2.10	0.84
1:C:679:GLY:HA3	1:C:837:THR:HG21	1.59	0.84
1:F:421:ALA:HB2	1:F:500:ILE:HD11	1.57	0.84
1:A:988:PRO:HA	1:A:991:ILE:HD12	1.57	0.84
1:F:65:ILE:HD11	1:F:90:ILE:HD13	1.60	0.84
1:F:692:HIS:NE2	1:F:723:ASP:OD2	2.10	0.84
1:B:115:MET:HA	1:B:118:LEU:HD13	1.60	0.84
1:D:800:PRO:HG2	1:D:803:ALA:HB2	1.60	0.83
1:B:986:VAL:HG21	1:B:1007:VAL:HG11	1.60	0.83
1:F:219:LEU:H	1:F:219:LEU:HD23	1.40	0.83
1:B:376:LEU:O	1:B:379:THR:N	2.11	0.83
1:C:184:MET:HB3	1:C:771:VAL:HG23	1.60	0.83
1:A:236:ALA:O	1:B:728:LYS:NZ	2.10	0.83
1:A:293:LEU:HD22	1:A:294:ALA:H	1.42	0.83
1:D:427:PRO:HD3	1:D:499:PRO:HB3	1.61	0.82
1:A:545:TYR:OH	1:A:903:LEU:O	1.96	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:961:ILE:N	1:A:1039:ASP:OD1	2.11	0.82
1:D:73:ASP:OD2	1:D:106:GLN:NE2	2.13	0.82
1:C:792:ARG:NH1	1:C:793:ALA:O	2.12	0.82
1:B:259:ARG:H	1:B:259:ARG:HD3	1.44	0.82
1:F:455:PRO:HG2	1:F:880:SER:HA	1.61	0.82
1:A:511:GLY:O	1:A:513:PHE:N	2.12	0.82
1:B:69:MET:HA	1:B:110:LYS:HB3	1.61	0.82
1:C:23:GLY:HA2	1:C:381:ALA:HB2	1.61	0.82
1:B:404:LEU:HD22	1:B:449:LEU:HD21	1.60	0.82
1:C:58:GLN:HE21	1:C:818:ARG:HH11	1.25	0.82
1:B:934:THR:HA	1:B:937:LEU:HD12	1.61	0.81
1:C:253:VAL:HA	1:C:259:ARG:HG2	1.60	0.81
1:F:343:THR:HG21	1:F:989:LEU:HD21	1.61	0.81
1:A:800:PRO:HG2	1:A:803:ALA:HB2	1.60	0.81
1:C:424:GLY:HA3	1:C:502:LYS:HG2	1.60	0.81
1:C:94:PHE:CZ	1:C:107:VAL:HG21	2.16	0.81
1:F:740:GLY:O	1:F:794:ALA:N	2.13	0.81
1:D:671:ILE:HD13	1:D:674:LEU:H	1.46	0.81
1:A:445:ILE:HD13	1:A:940:LYS:HE2	1.62	0.81
1:F:30:LEU:HD23	1:F:390:ILE:HD11	1.62	0.81
1:B:379:THR:HA	1:B:382:VAL:HG23	1.63	0.81
1:B:717:ARG:HE	1:B:828:LEU:HB2	1.44	0.81
1:C:391:ASN:ND2	1:C:469:GLN:OE1	2.13	0.80
1:C:693:GLU:H	1:C:694:LYS:HZ3	1.29	0.80
1:D:971:ARG:HE	1:D:974:PRO:HG2	1.46	0.80
1:F:519:MET:O	1:F:523:SER:OG	1.99	0.80
1:B:15:ILE:HD12	1:B:487:ILE:HG21	1.64	0.80
1:B:418:ARG:NH1	1:B:422:GLU:OE2	2.14	0.80
1:D:801:PHE:HA	1:D:804:PHE:HE2	1.46	0.80
1:E:668:LEU:HD23	1:E:668:LEU:H	1.45	0.80
1:B:30:LEU:HD12	1:B:31:PRO:HD2	1.63	0.80
1:B:171:GLY:O	1:B:302:THR:OG1	1.99	0.80
1:A:17:ILE:HA	1:A:20:MET:HE2	1.64	0.80
1:E:30:LEU:HD12	1:E:31:PRO:HD2	1.64	0.80
1:F:632:LYS:O	1:F:637:ARG:NH1	2.15	0.79
1:A:713:LEU:HD21	1:A:843:LEU:HD11	1.63	0.79
1:C:239:ARG:NH1	1:C:761:ASP:O	2.15	0.79
1:F:455:PRO:HB3	1:F:879:ILE:HG22	1.63	0.79
1:A:544:LEU:HA	1:A:547:ILE:HD12	1.63	0.79
1:E:193:LEU:HD23	1:E:265:VAL:HB	1.65	0.79
1:A:959:GLY:HA3	1:A:1039:ASP:H	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:832:ALA:HB3	1:D:835:LYS:HG2	1.64	0.79
1:D:888:LEU:HD22	1:D:892:TYR:HE2	1.47	0.79
1:C:760:ASN:O	1:C:771:VAL:HG12	1.82	0.78
1:F:919:ARG:HH11	1:F:919:ARG:HG3	1.47	0.78
1:A:166:ILE:HG22	1:A:175:VAL:HG21	1.64	0.78
1:A:376:LEU:O	1:A:379:THR:N	2.16	0.78
1:A:552:MET:HB2	1:A:910:ILE:HB	1.65	0.78
1:B:686:ASP:HB3	1:B:823:PRO:HB2	1.65	0.78
1:C:102:ILE:O	1:C:105:VAL:HB	1.84	0.78
1:A:427:PRO:HD3	1:A:499:PRO:HB3	1.64	0.78
1:D:203:VAL:O	1:D:207:ILE:HG12	1.84	0.78
1:B:156:ASP:OD2	1:B:769:LYS:NZ	2.17	0.78
1:C:484:VAL:HA	1:C:487:ILE:HB	1.64	0.78
1:C:564:LEU:HD12	1:C:565:PRO:HD2	1.64	0.78
1:C:584:GLN:HB2	1:C:622:GLN:HG2	1.64	0.77
1:D:508:GLY:O	1:D:510:LYS:N	2.16	0.77
1:A:30:LEU:HD23	1:A:31:PRO:HD2	1.65	0.77
1:A:163:LYS:HE3	1:A:177:LEU:HB2	1.66	0.77
1:F:144:ASN:HB3	1:F:148:THR:HG23	1.66	0.77
1:F:393:LEU:HD12	1:F:469:GLN:HG3	1.66	0.77
1:F:428:LYS:HG3	1:F:494:ALA:HB1	1.66	0.77
1:C:615:ALA:HB2	1:C:620:ARG:HG2	1.65	0.77
1:B:68:ASN:HB2	1:B:114:ALA:HB2	1.67	0.77
1:B:907:LEU:HD23	1:B:1017:LEU:HB3	1.67	0.77
1:F:596:HIS:O	1:F:600:THR:OG1	2.03	0.77
1:A:897:ILE:O	1:A:900:SER:OG	2.01	0.77
1:B:790:TYR:HB3	1:B:798:MET:HB3	1.67	0.77
1:C:437:GLN:HG3	1:C:438:ILE:HG23	1.67	0.77
1:D:27:ILE:HG12	1:D:380:PHE:CD2	2.20	0.77
1:A:137:LEU:HD22	1:A:293:LEU:HD23	1.67	0.77
1:C:440:GLY:O	1:C:892:TYR:OH	2.02	0.77
1:E:278:ILE:HG23	1:E:613:ASN:HB3	1.67	0.77
1:F:393:LEU:HD11	1:F:466:ILE:HG12	1.67	0.77
1:A:372:VAL:HG13	1:A:373:PRO:HD3	1.66	0.77
1:C:210:GLN:NE2	1:C:250:LEU:O	2.17	0.76
1:D:623:ASN:OD1	1:D:623:ASN:N	2.10	0.76
1:D:776:GLU:HB3	1:D:779:TYR:CD1	2.20	0.76
1:A:151:GLN:HE22	1:A:279:ALA:H	1.32	0.76
1:B:445:ILE:HG21	1:B:940:LYS:NZ	2.00	0.76
1:F:375:VAL:HG22	1:F:480:LEU:HB3	1.68	0.76
1:B:251:LEU:HD11	1:B:262:LEU:HA	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:291:ILE:HD13	1:D:306:ILE:HD13	1.65	0.76
1:A:1041:GLU:HG3	1:A:1042:HIS:HA	1.66	0.76
1:D:428:LYS:HZ2	1:D:428:LYS:H	1.30	0.76
1:E:1040:ILE:HG23	1:E:1042:HIS:HB2	1.66	0.76
1:F:200:PRO:HG2	1:F:749:THR:HG23	1.65	0.76
1:D:222:THR:HG22	1:E:622:GLN:NE2	2.01	0.76
1:E:231:ASN:OD1	1:F:622:GLN:NE2	2.18	0.76
1:E:536:ARG:NH2	2:E:2000:LMT:C2B	2.42	0.76
1:A:564:LEU:HD23	1:A:565:PRO:HD2	1.66	0.76
1:B:419:VAL:HA	1:B:422:GLU:HG2	1.67	0.76
1:D:197:GLN:O	1:D:792:ARG:HD3	1.86	0.76
1:D:926:TYR:HE1	1:D:999:ALA:HB1	1.51	0.76
1:F:525:HIS:NE2	1:F:529:ASP:OD2	2.18	0.76
1:B:518:ARG:O	1:B:522:LYS:N	2.14	0.76
1:B:687:GLN:HE22	1:B:856:GLY:HA3	1.49	0.76
1:D:655:PHE:HB3	1:D:663:VAL:HB	1.65	0.76
1:F:228:GLN:NE2	1:F:230:LEU:H	1.83	0.76
1:D:776:GLU:HB3	1:D:779:TYR:HD1	1.51	0.76
1:E:94:PHE:CE2	1:E:103:ALA:HB1	2.21	0.76
1:C:186:ILE:HG12	1:C:268:ILE:HD13	1.68	0.75
1:F:360:GLN:NE2	1:F:513:PHE:O	2.19	0.75
1:A:949:ALA:HB3	1:A:1026:PHE:HE1	1.52	0.75
1:B:405:LEU:HD21	1:B:477:ALA:HB1	1.66	0.75
1:C:211:ASN:ND2	1:C:760:ASN:HD21	1.85	0.75
1:F:356:TYR:HD1	1:F:365:THR:HG21	1.50	0.75
1:C:536:ARG:NH1	2:C:2000:LMT:H3B	2.01	0.75
1:E:139:VAL:HB	1:E:327:TYR:HB3	1.69	0.75
1:B:519:MET:N	1:B:519:MET:SD	2.55	0.75
1:B:66:GLU:HG3	1:B:818:ARG:NH2	2.01	0.75
1:B:641:GLU:HB2	1:B:650:ARG:HH22	1.51	0.75
1:C:368:PRO:HG3	1:C:413:VAL:HG21	1.69	0.75
1:E:944:LEU:HD12	1:E:971:ARG:HH21	1.50	0.75
1:B:80:SER:HB3	1:B:818:ARG:HB2	1.68	0.75
1:B:885:PHE:HB2	1:B:902:MET:SD	2.26	0.75
1:B:703:LEU:HG	1:B:716:VAL:HG12	1.68	0.75
1:C:572:PHE:HD2	1:C:631:LEU:HD11	1.52	0.74
1:D:425:LEU:HB3	1:D:429:GLU:HG3	1.69	0.74
1:F:156:ASP:OD2	1:F:769:LYS:NZ	2.19	0.74
1:A:153:ASP:OD2	1:A:182:TYR:OH	2.03	0.74
1:E:536:ARG:CZ	2:E:2000:LMT:H4B	2.17	0.74
1:A:105:VAL:HG11	1:B:105:VAL:HG12	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:451:ALA:HB1	1:A:883:VAL:HG13	1.68	0.74
1:F:144:ASN:O	1:F:284:GLN:NE2	2.20	0.74
1:A:110:LYS:HE3	1:A:113:LEU:HD12	1.67	0.74
1:B:400:LEU:HD11	1:B:1007:VAL:HG21	1.68	0.74
1:C:156:ASP:OD2	1:C:769:LYS:NZ	2.17	0.74
1:D:428:LYS:H	1:D:428:LYS:NZ	1.85	0.74
1:D:736:ALA:HB2	1:D:804:PHE:HD1	1.52	0.74
1:E:81:ASN:OD1	1:E:815:ARG:NH2	2.20	0.74
1:E:83:ASP:OD1	1:E:815:ARG:NH1	2.21	0.74
1:D:67:GLN:OE1	1:F:767:ARG:NH2	2.20	0.74
1:D:734:GLU:OE1	1:F:259:ARG:NH2	2.20	0.74
1:A:776:GLU:HB3	1:A:779:TYR:HD1	1.51	0.74
1:A:886:LEU:HD23	1:C:14:VAL:HG13	1.69	0.74
1:F:948:PHE:CE2	1:F:971:ARG:HG3	2.22	0.74
1:E:717:ARG:HG2	1:E:717:ARG:HH11	1.53	0.74
1:E:671:ILE:HG22	1:E:673:GLU:H	1.52	0.74
1:F:211:ASN:O	1:F:760:ASN:ND2	2.20	0.74
1:A:1013:THR:O	1:A:1017:LEU:HB2	1.88	0.74
1:A:391:ASN:ND2	1:A:393:LEU:HD22	2.03	0.73
1:D:1037:ASN:HA	1:D:1038:GLU:HB2	1.69	0.73
1:D:1039:ASP:N	1:D:1040:ILE:HB	2.03	0.73
1:E:146:ASP:O	1:E:148:THR:N	2.22	0.73
1:A:776:GLU:HB3	1:A:779:TYR:CD1	2.24	0.73
1:B:482:VAL:O	1:B:485:ALA:HB3	1.89	0.73
1:E:57:VAL:HG23	1:E:82:SER:HB3	1.68	0.73
1:E:924:ASP:O	1:E:928:GLN:NE2	2.19	0.73
1:D:157:TYR:HE1	1:D:318:PRO:HD3	1.51	0.73
1:B:228:GLN:HE21	1:B:230:LEU:H	1.34	0.73
1:A:445:ILE:HG13	1:A:446:ALA:N	2.03	0.73
1:C:754:TRP:CH2	1:C:780:ARG:HA	2.23	0.73
1:D:846:GLN:O	1:D:849:SER:OG	2.07	0.73
1:E:153:ASP:OD2	1:E:182:TYR:OH	2.05	0.73
1:F:222:THR:HA	1:F:224:PRO:HD3	1.71	0.73
1:C:108:GLN:O	1:C:112:GLN:NE2	2.22	0.73
1:E:234:ILE:HG23	1:F:729:ILE:HD13	1.69	0.73
1:F:576:VAL:HG23	1:F:663:VAL:HG22	1.70	0.73
1:A:68:ASN:HB2	1:A:114:ALA:HB2	1.70	0.72
1:A:637:ARG:HB3	1:A:642:ASN:HB3	1.70	0.72
1:D:170:SER:OG	1:E:74:ASN:N	2.21	0.72
1:F:450:SER:HB2	1:F:475:VAL:HG13	1.70	0.72
1:B:83:ASP:HB3	1:B:85:THR:HG22	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:943:ILE:O	1:B:947:GLU:HB3	1.89	0.72
1:C:910:ILE:O	1:C:914:LEU:HB2	1.89	0.72
1:E:7:ASP:OD2	1:E:432:ARG:NH2	2.21	0.72
1:F:858:ASP:OD2	1:F:859:TRP:N	2.23	0.72
1:C:527:TYR:O	1:C:531:VAL:HG23	1.89	0.72
1:D:222:THR:HG22	1:E:622:GLN:HE21	1.54	0.72
1:F:792:ARG:NH1	1:F:793:ALA:O	2.23	0.72
1:E:154:ILE:HG22	1:E:287:SER:HB3	1.71	0.72
1:B:153:ASP:OD2	1:B:182:TYR:OH	2.05	0.72
1:D:5:PHE:HA	1:D:8:ARG:HB2	1.71	0.72
1:E:907:LEU:HD23	1:E:1017:LEU:HB3	1.71	0.72
1:F:680:PHE:HB2	1:F:859:TRP:HZ3	1.55	0.72
1:D:971:ARG:HG3	1:D:971:ARG:HH11	1.54	0.72
1:F:151:GLN:O	1:F:155:SER:OG	2.02	0.72
1:A:578:LEU:HD21	1:A:590:VAL:HG21	1.71	0.71
1:B:83:ASP:OD1	1:B:815:ARG:NH1	2.22	0.71
1:B:307:ARG:NH2	1:B:328:ASP:OD2	2.20	0.71
1:C:72:ILE:HD12	1:C:75:LEU:HD22	1.71	0.71
1:B:67:GLN:O	1:B:70:ASN:ND2	2.22	0.71
1:E:417:GLU:OE2	1:E:497:LEU:HD11	1.90	0.71
1:F:347:ALA:HB3	1:F:402:ILE:HD12	1.72	0.71
1:A:375:VAL:O	1:A:379:THR:OG1	2.07	0.71
1:D:152:GLU:HB3	1:D:182:TYR:HE1	1.54	0.71
1:D:267:LYS:NZ	1:D:268:ILE:H	1.88	0.71
1:E:563:PHE:O	1:E:564:LEU:HD12	1.90	0.71
2:E:2000:LMT:O4'	2:E:2000:LMT:O6B	2.03	0.71
1:F:672:VAL:O	1:F:674:LEU:N	2.15	0.71
1:F:910:ILE:O	1:F:914:LEU:HB2	1.90	0.71
1:C:190:PRO:HG3	1:C:779:TYR:CG	2.26	0.71
1:C:463:THR:HA	1:C:466:ILE:HG12	1.73	0.71
1:D:216:ALA:HB1	1:D:234:ILE:HG22	1.72	0.71
1:E:339:GLU:O	1:E:343:THR:HG22	1.90	0.71
1:A:987:MET:HB3	1:A:988:PRO:HD3	1.71	0.71
1:D:427:PRO:HB2	1:D:428:LYS:HE3	1.72	0.71
1:D:959:GLY:HA2	1:D:1040:ILE:HG12	1.72	0.71
1:F:754:TRP:CH2	1:F:780:ARG:HA	2.25	0.71
1:A:435:MET:SD	1:A:490:PRO:HB3	2.30	0.71
1:A:605:ASN:HD22	1:A:647:ILE:HD11	1.54	0.71
1:B:66:GLU:HG3	1:B:818:ARG:HH21	1.54	0.71
1:B:525:HIS:HA	1:B:528:THR:HG22	1.72	0.71
1:C:65:ILE:HD11	1:C:118:LEU:HD21	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:922:THR:O	1:B:924:ASP:N	2.22	0.71
1:C:226:LYS:HD3	1:C:226:LYS:H	1.55	0.71
1:F:584:GLN:HB2	1:F:622:GLN:HG2	1.72	0.71
1:E:445:ILE:HD13	1:E:940:LYS:HE3	1.73	0.71
1:B:536:ARG:HG3	1:B:536:ARG:HH21	1.56	0.70
1:B:937:LEU:HD13	1:B:1011:MET:HG2	1.73	0.70
1:C:53:ASP:OD1	1:C:53:ASP:N	2.22	0.70
1:E:239:ARG:NH2	1:F:49:TYR:OH	2.23	0.70
1:F:531:VAL:O	1:F:534:ILE:HG13	1.90	0.70
1:F:791:VAL:HG23	1:F:801:PHE:HE1	1.54	0.70
1:A:619:GLY:H	1:A:815:ARG:NH2	1.89	0.70
1:A:944:LEU:HB3	1:A:971:ARG:HD2	1.72	0.70
1:B:767:ARG:HH21	1:C:117:LEU:HD11	1.56	0.70
1:E:76:MET:SD	1:E:864:TYR:HE2	2.13	0.70
1:A:753:ALA:O	1:A:775:SER:OG	2.01	0.70
1:A:743:ILE:O	1:A:746:ILE:HG12	1.91	0.70
1:E:447:MET:HB3	1:E:887:CYS:SG	2.31	0.70
1:A:884:VAL:O	1:A:888:LEU:HD22	1.90	0.70
1:C:144:ASN:HA	1:C:320:GLY:O	1.91	0.70
1:F:5:PHE:O	1:F:7:ASP:N	2.24	0.70
1:F:658:ILE:O	1:F:659:LYS:NZ	2.16	0.70
1:E:919:ARG:HB3	1:E:921:LEU:HD23	1.74	0.70
1:F:213:GLN:HG2	1:F:239:ARG:HG3	1.72	0.70
1:F:375:VAL:O	1:F:379:THR:N	2.23	0.70
1:A:880:SER:O	1:A:884:VAL:HG12	1.91	0.70
1:B:775:SER:OG	1:B:780:ARG:HG2	1.91	0.70
1:C:69:MET:SD	1:C:92:LEU:HG	2.32	0.70
1:C:343:THR:HG21	1:C:989:LEU:HD21	1.73	0.70
1:D:110:LYS:NZ	1:F:130:GLU:OE1	2.21	0.70
1:E:598:TYR:HB3	1:E:606:VAL:HG21	1.74	0.70
1:F:23:GLY:HA2	1:F:381:ALA:HB2	1.72	0.70
1:A:680:PHE:HB2	1:A:859:TRP:HZ3	1.57	0.70
1:B:156:ASP:OD1	1:B:765:ARG:NH2	2.24	0.70
1:C:38:ILE:HG12	1:C:462:SER:HB3	1.74	0.70
1:C:536:ARG:HD2	2:C:2000:LMT:O4'	1.92	0.70
1:B:43:VAL:HG22	1:B:131:LYS:HA	1.74	0.69
1:B:451:ALA:O	1:B:883:VAL:HG11	1.92	0.69
1:D:768:VAL:HG12	1:E:63:GLN:HG2	1.71	0.69
1:F:373:PRO:O	1:F:377:LEU:N	2.23	0.69
1:F:940:LYS:NZ	1:F:978:THR:HG21	2.07	0.69
1:C:222:THR:HA	1:C:224:PRO:HD3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:596:HIS:O	1:C:600:THR:OG1	2.06	0.69
1:A:840:ALA:HA	1:A:843:LEU:HD12	1.73	0.69
1:A:986:VAL:HG21	1:A:1007:VAL:HG11	1.72	0.69
1:C:376:LEU:O	1:C:379:THR:N	2.24	0.69
1:C:493:CYS:O	1:C:497:LEU:HB3	1.92	0.69
1:C:593:GLU:OE1	1:C:659:LYS:NZ	2.25	0.69
1:D:354:VAL:HG21	1:D:981:ALA:HA	1.74	0.69
1:F:75:LEU:HA	1:F:94:PHE:HD1	1.57	0.69
1:B:445:ILE:HG13	1:B:446:ALA:N	2.08	0.69
1:B:680:PHE:HB2	1:B:859:TRP:HZ3	1.57	0.69
1:C:20:MET:HG2	1:C:374:VAL:HA	1.73	0.69
1:C:99:ASP:HB3	1:C:102:ILE:HB	1.74	0.69
1:C:576:VAL:HG23	1:C:663:VAL:HG22	1.74	0.69
1:C:81:ASN:HB2	1:C:89:GLN:HB2	1.75	0.69
1:C:545:TYR:HB2	1:C:1021:PHE:HE2	1.57	0.69
1:A:407:ASP:OD2	1:A:940:LYS:HE3	1.92	0.69
1:C:401:ALA:HA	1:C:474:ILE:HG23	1.73	0.69
1:E:175:VAL:HG22	1:F:70:ASN:ND2	2.08	0.69
1:F:348:ILE:HG12	1:F:402:ILE:HD13	1.73	0.69
1:B:120:GLN:HA	1:B:123:GLN:HB2	1.73	0.69
1:B:583:THR:HG23	1:B:585:GLU:H	1.58	0.69
1:A:125:GLN:OE1	1:A:770:LYS:NZ	2.26	0.69
1:A:726:GLN:HB3	1:C:235:ILE:HD11	1.73	0.69
1:B:996:GLY:O	1:B:999:ALA:N	2.26	0.69
1:C:156:ASP:OD1	1:C:765:ARG:NH2	2.26	0.69
1:C:375:VAL:HG22	1:C:480:LEU:HB3	1.72	0.69
1:C:393:LEU:HB3	1:C:466:ILE:HG23	1.75	0.69
1:E:293:LEU:HD22	1:E:294:ALA:H	1.58	0.69
1:A:160:ALA:C	1:A:161:ASN:HD22	1.96	0.69
1:B:740:GLY:O	1:B:794:ALA:N	2.23	0.69
1:C:47:ALA:HB2	1:C:127:VAL:HG13	1.74	0.69
1:C:971:ARG:HB3	1:C:971:ARG:HH11	1.58	0.69
1:D:158:VAL:HG22	1:D:162:MET:HE3	1.75	0.69
1:D:513:PHE:O	1:D:516:PHE:HB3	1.92	0.69
1:E:211:ASN:O	1:E:760:ASN:ND2	2.26	0.69
1:F:795:ASP:OD2	1:F:797:GLN:HG3	1.93	0.69
1:E:112:GLN:NE2	1:F:112:GLN:OE1	2.26	0.69
1:B:420:MET:HE1	1:B:499:PRO:HA	1.74	0.68
1:D:910:ILE:HG23	1:D:1013:THR:HG21	1.74	0.68
1:F:534:ILE:HG22	1:F:541:TYR:CE2	2.28	0.68
1:B:727:PHE:HB2	1:B:809:TRP:CZ3	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:23:GLY:HA3	1:C:378:GLY:HA2	1.73	0.68
1:D:743:ILE:HG23	1:D:746:ILE:HD12	1.75	0.68
1:D:979:SER:OG	1:D:1015:THR:HG21	1.93	0.68
1:E:251:LEU:HD11	1:E:262:LEU:HA	1.76	0.68
1:F:555:LEU:HD22	1:F:913:LEU:HB3	1.73	0.68
1:A:367:ILE:HG12	1:A:496:MET:SD	2.34	0.68
1:F:261:LEU:N	1:F:264:ASP:OD2	2.25	0.68
1:F:873:ALA:HB2	1:F:928:GLN:NE2	2.08	0.68
1:A:350:LEU:HD11	1:A:984:LEU:HB3	1.75	0.68
1:A:971:ARG:CZ	1:A:971:ARG:HB3	2.22	0.68
1:B:441:ALA:O	1:B:445:ILE:HG23	1.93	0.68
1:F:591:LEU:HD13	1:F:611:ALA:HB1	1.76	0.68
1:B:421:ALA:O	1:B:503:GLY:N	2.26	0.68
1:D:781:MET:HB3	1:F:228:GLN:OE1	1.93	0.68
1:E:139:VAL:O	1:E:326:PRO:HD2	1.93	0.68
1:F:344:LEU:HA	1:F:399:VAL:HG22	1.74	0.68
1:A:614:GLY:O	1:A:621:GLY:N	2.25	0.68
1:D:445:ILE:O	1:D:449:LEU:HB2	1.93	0.68
1:B:919:ARG:NH2	1:B:1001:ASN:OD1	2.24	0.68
1:F:449:LEU:HD21	1:F:937:LEU:HD23	1.75	0.68
1:B:280:GLU:OE1	1:B:588:GLN:NE2	2.27	0.68
1:C:698:ALA:O	1:C:701:GLN:HB3	1.93	0.68
1:D:139:VAL:HG22	1:D:290:GLY:HA2	1.76	0.68
1:E:47:ALA:HB2	1:E:127:VAL:HG13	1.75	0.68
1:E:740:GLY:O	1:E:794:ALA:N	2.25	0.68
1:E:971:ARG:NH1	1:E:974:PRO:HG3	2.09	0.68
1:C:885:PHE:HD2	1:C:886:LEU:HD22	1.57	0.68
1:A:225:VAL:H	1:B:781:MET:HE1	1.58	0.68
1:A:895:TRP:CZ2	1:C:10:ILE:HG13	2.29	0.68
1:E:588:GLN:HB2	1:E:613:ASN:ND2	2.09	0.68
1:A:225:VAL:HG22	1:B:781:MET:HE1	1.76	0.67
1:B:447:MET:HB3	1:B:887:CYS:SG	2.33	0.67
1:C:393:LEU:HD22	1:C:393:LEU:H	1.60	0.67
1:C:101:ASP:O	1:C:105:VAL:HG23	1.93	0.67
1:D:445:ILE:HG22	1:D:943:ILE:HG21	1.74	0.67
1:E:171:GLY:O	1:E:302:THR:OG1	2.10	0.67
1:F:94:PHE:CE2	1:F:103:ALA:HB1	2.29	0.67
1:F:760:ASN:O	1:F:771:VAL:HG12	1.94	0.67
1:A:668:LEU:HD23	1:A:668:LEU:H	1.58	0.67
1:C:405:LEU:HD22	1:C:477:ALA:HB1	1.75	0.67
1:D:362:PHE:HB2	1:D:363:ARG:NH1	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:527:TYR:O	1:A:530:SER:OG	2.12	0.67
1:D:428:LYS:H	1:D:428:LYS:CE	2.08	0.67
1:D:960:LEU:HD21	1:D:1027:VAL:HG13	1.76	0.67
1:E:846:GLN:O	1:E:850:LYS:NZ	2.22	0.67
1:E:858:ASP:OD1	1:E:859:TRP:N	2.27	0.67
1:A:186:ILE:HG12	1:A:268:ILE:HD13	1.76	0.67
1:C:686:ASP:OD2	1:C:823:PRO:HD2	1.95	0.67
1:C:758:TYR:CD1	1:C:770:LYS:HD3	2.30	0.67
1:C:971:ARG:HB3	1:C:971:ARG:NH1	2.10	0.67
1:D:6:ILE:HG12	1:D:7:ASP:N	2.10	0.67
1:E:743:ILE:HA	1:E:746:ILE:HG12	1.75	0.67
1:A:200:PRO:HB2	1:A:749:THR:HG22	1.76	0.67
1:C:451:ALA:HB3	1:C:884:VAL:HG22	1.77	0.67
1:D:157:TYR:CE1	1:D:318:PRO:HD3	2.29	0.67
1:D:277:ILE:HG13	1:D:614:GLY:HA3	1.76	0.67
1:D:790:TYR:HB3	1:D:798:MET:HB3	1.75	0.67
1:E:800:PRO:HG2	1:E:803:ALA:HB2	1.77	0.67
1:A:112:GLN:HA	1:A:115:MET:HB2	1.77	0.67
1:B:446:ALA:HB2	1:B:482:VAL:HG21	1.77	0.67
1:D:713:LEU:HD11	1:D:843:LEU:HD12	1.76	0.67
1:D:890:ALA:HB2	1:F:14:VAL:HG11	1.76	0.67
1:F:520:PHE:O	1:F:524:THR:HG22	1.95	0.67
1:F:995:ALA:O	1:F:997:SER:N	2.28	0.67
1:C:250:LEU:HA	1:C:261:LEU:HD22	1.77	0.67
1:F:901:VAL:HG23	1:F:942:ALA:HB3	1.76	0.67
1:A:858:ASP:OD2	1:A:859:TRP:N	2.28	0.66
1:A:919:ARG:NH1	1:A:990:VAL:O	2.21	0.66
1:C:693:GLU:H	1:C:694:LYS:NZ	1.92	0.66
1:C:948:PHE:O	1:C:952:LEU:HG	1.94	0.66
1:E:267:LYS:N	1:E:267:LYS:HD2	2.10	0.66
1:F:83:ASP:HB3	1:F:87:THR:O	1.95	0.66
1:A:182:TYR:HB2	1:A:769:LYS:NZ	2.10	0.66
1:A:508:GLY:H	1:A:518:ARG:HG3	1.61	0.66
1:B:166:ILE:HG12	1:B:310:LEU:HD22	1.76	0.66
1:D:446:ALA:HB2	1:D:482:VAL:HG21	1.77	0.66
1:D:727:PHE:HB2	1:D:809:TRP:CZ3	2.30	0.66
1:A:122:VAL:O	1:A:125:GLN:N	2.29	0.66
1:B:197:GLN:NE2	1:B:796:GLY:O	2.27	0.66
1:F:414:GLU:HG2	1:F:973:ARG:HH21	1.60	0.66
1:F:699:ARG:HE	1:F:718:PRO:HB3	1.60	0.66
1:A:401:ALA:HB2	1:A:474:ILE:HG23	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:393:LEU:HG	1:C:466:ILE:HD12	1.76	0.66
1:C:453:PHE:HE2	1:C:474:ILE:HB	1.58	0.66
1:D:801:PHE:HA	1:D:804:PHE:CE2	2.30	0.66
1:E:238:THR:OG1	1:F:728:LYS:NZ	2.29	0.66
1:E:562:SER:HB3	1:E:924:ASP:HB3	1.77	0.66
1:E:997:SER:O	1:E:1001:ASN:ND2	2.27	0.66
1:B:222:THR:HA	1:B:224:PRO:HD3	1.77	0.66
1:D:30:LEU:HD12	1:D:31:PRO:HD2	1.77	0.66
1:D:277:ILE:HD13	1:D:620:ARG:HH21	1.60	0.66
1:D:724:THR:O	1:D:726:GLN:NE2	2.29	0.66
1:C:58:GLN:HE21	1:C:818:ARG:NH1	1.94	0.66
1:E:420:MET:HE1	1:E:499:PRO:HA	1.76	0.66
1:F:733:GLN:HE22	1:F:743:ILE:HD13	1.61	0.66
1:D:82:SER:HB2	1:D:816:LEU:HB2	1.78	0.66
1:D:1035:ARG:NE	1:D:1035:ARG:HA	2.11	0.66
1:E:340:VAL:HG11	1:E:395:MET:HB3	1.76	0.66
1:A:203:VAL:O	1:A:207:ILE:HG13	1.94	0.66
1:A:447:MET:HB3	1:A:887:CYS:SG	2.36	0.66
1:B:894:SER:HB2	1:B:897:ILE:HD11	1.78	0.66
1:D:960:LEU:HD23	1:D:1031:ARG:HH21	1.61	0.66
1:E:863:SER:O	1:E:867:ARG:HB2	1.95	0.66
1:A:952:LEU:HB2	1:A:963:ALA:HB1	1.77	0.65
2:A:2000:LMT:O6B	2:A:2000:LMT:O4'	2.12	0.65
1:F:81:ASN:OD1	1:F:815:ARG:NH1	2.28	0.65
1:B:507:GLU:HB3	1:B:518:ARG:HG2	1.78	0.65
1:C:201:VAL:O	1:C:205:THR:OG1	2.13	0.65
1:C:400:LEU:O	1:C:400:LEU:HD13	1.97	0.65
1:C:519:MET:O	1:C:523:SER:OG	2.13	0.65
1:C:905:VAL:CG2	1:C:906:PRO:HD3	2.24	0.65
1:B:485:ALA:HA	1:B:489:THR:OG1	1.96	0.65
1:D:953:MET:SD	1:D:1037:ASN:ND2	2.69	0.65
1:F:23:GLY:HA3	1:F:377:LEU:O	1.95	0.65
1:A:156:ASP:OD1	1:A:765:ARG:NH2	2.29	0.65
1:B:492:LEU:O	1:B:496:MET:HG2	1.96	0.65
1:D:418:ARG:NH1	1:D:422:GLU:OE2	2.30	0.65
1:F:680:PHE:HB2	1:F:859:TRP:CZ3	2.30	0.65
1:C:262:LEU:HA	1:C:265:VAL:HG22	1.77	0.65
1:D:176:GLN:NE2	1:D:177:LEU:O	2.29	0.65
1:D:971:ARG:NE	1:D:974:PRO:HG2	2.10	0.65
1:A:230:LEU:O	1:A:231:ASN:ND2	2.25	0.65
1:C:415:ASN:HB3	1:C:438:ILE:HD12	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:217:GLY:O	1:D:234:ILE:HB	1.96	0.65
1:D:506:GLY:O	1:D:509:LYS:HB2	1.97	0.65
1:E:527:TYR:O	1:E:530:SER:OG	2.14	0.65
1:F:20:MET:HG2	1:F:374:VAL:HA	1.79	0.65
1:C:6:ILE:HG22	1:C:487:ILE:HG12	1.79	0.65
1:C:181:GLN:OE1	1:C:767:ARG:NH2	2.26	0.65
1:D:525:HIS:NE2	1:D:529:ASP:OD2	2.29	0.65
1:A:886:LEU:HD21	1:C:18:ILE:HG12	1.79	0.65
1:A:1028:VAL:HG13	1:A:1032:ARG:HH12	1.62	0.65
1:C:691:GLY:O	1:C:694:LYS:HG2	1.97	0.65
1:C:968:VAL:HA	1:C:971:ARG:HH12	1.62	0.65
1:D:63:GLN:HE22	1:F:767:ARG:HA	1.62	0.65
1:D:702:LEU:HD22	1:D:848:ALA:HB2	1.79	0.65
1:E:408:ASP:OD1	1:E:940:LYS:NZ	2.20	0.65
1:E:805:SER:O	1:E:805:SER:OG	2.10	0.65
1:F:62:THR:OG1	1:F:63:GLN:N	2.29	0.65
1:C:509:LYS:HB3	1:C:514:GLY:HA3	1.79	0.65
1:D:699:ARG:HG3	1:D:827:ILE:HD11	1.78	0.65
1:E:728:LYS:HD3	1:E:810:GLU:OE2	1.96	0.65
1:A:1037:ASN:HA	1:A:1038:GLU:O	1.97	0.64
1:B:343:THR:HG21	1:B:989:LEU:HD23	1.79	0.64
1:B:668:LEU:HD23	1:B:668:LEU:H	1.62	0.64
1:C:736:ALA:HB2	1:C:804:PHE:CD1	2.32	0.64
1:E:453:PHE:O	1:E:471:SER:OG	2.10	0.64
1:F:1033:PHE:O	1:F:1035:ARG:N	2.30	0.64
1:A:170:SER:HB3	1:B:74:ASN:H	1.62	0.64
1:A:690:LEU:HB3	1:A:694:LYS:HG3	1.79	0.64
1:C:298:ASN:OD1	1:C:299:ALA:N	2.30	0.64
1:C:908:GLY:HA2	1:C:1014:ALA:HB2	1.78	0.64
1:E:448:VAL:HG13	1:E:884:VAL:HG13	1.79	0.64
1:A:895:TRP:O	1:A:898:PRO:HD2	1.97	0.64
1:D:745:ASP:O	1:D:749:THR:OG1	2.11	0.64
1:D:907:LEU:HD23	1:D:1017:LEU:HB3	1.78	0.64
1:D:959:GLY:HA2	1:D:1040:ILE:CG1	2.27	0.64
1:E:295:THR:O	1:E:295:THR:OG1	2.13	0.64
1:F:144:ASN:O	1:F:148:THR:OG1	2.10	0.64
1:F:155:SER:HB3	1:F:180:SER:H	1.61	0.64
1:B:154:ILE:HG22	1:B:287:SER:HB3	1.78	0.64
1:B:195:LYS:HG2	1:B:196:PHE:CE1	2.33	0.64
1:C:754:TRP:CZ2	1:C:780:ARG:HA	2.31	0.64
1:D:743:ILE:O	1:D:746:ILE:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:908:GLY:HA2	1:D:1014:ALA:HB2	1.78	0.64
1:F:415:ASN:OD1	1:F:438:ILE:HG21	1.97	0.64
1:F:813:SER:HB2	1:F:816:LEU:HD21	1.78	0.64
1:D:186:ILE:HB	1:D:773:VAL:HG12	1.79	0.64
1:D:795:ASP:OD2	1:D:796:GLY:N	2.26	0.64
1:F:453:PHE:HD2	1:F:456:MET:HE2	1.62	0.64
1:A:960:LEU:O	1:A:964:THR:HG23	1.98	0.64
1:E:26:ALA:O	1:E:30:LEU:HB2	1.98	0.64
1:E:274:ASN:OD1	1:E:276:ASP:N	2.30	0.64
1:E:352:PHE:HD2	1:E:353:LEU:HD23	1.61	0.64
1:A:186:ILE:HB	1:A:773:VAL:HG12	1.79	0.64
1:A:913:LEU:HD23	1:A:927:PHE:HZ	1.61	0.64
1:B:590:VAL:O	1:B:593:GLU:HG2	1.98	0.64
1:B:685:ILE:HG22	1:B:687:GLN:HG3	1.79	0.64
1:B:971:ARG:O	1:B:975:ILE:HG13	1.98	0.64
1:C:930:GLY:HA2	1:C:1007:VAL:HG23	1.79	0.64
1:E:727:PHE:CD2	1:E:729:ILE:HD11	2.33	0.64
1:A:10:ILE:HG12	1:B:894:SER:HA	1.79	0.64
1:A:57:VAL:HG23	1:A:82:SER:HB3	1.78	0.64
1:A:305:ALA:O	1:A:308:ALA:HB3	1.98	0.64
1:B:216:ALA:HB1	1:B:234:ILE:HG22	1.80	0.64
1:C:42:ALA:HB2	1:C:93:THR:HG23	1.79	0.64
1:E:320:GLY:O	1:E:322:LYS:HG2	1.98	0.64
1:F:930:GLY:HA2	1:F:1007:VAL:HG23	1.78	0.64
1:F:983:ILE:HG22	1:F:984:LEU:HD23	1.78	0.64
1:C:261:LEU:N	1:C:264:ASP:OD2	2.29	0.64
1:C:344:LEU:HG	1:C:398:MET:SD	2.38	0.64
1:D:530:SER:HA	2:D:2000:LMT:O2'	1.98	0.64
1:A:199:THR:HG21	1:A:791:VAL:HA	1.80	0.63
1:A:682:PHE:HB3	1:A:827:ILE:HG23	1.80	0.63
1:A:744:ASN:O	1:A:748:THR:HG23	1.98	0.63
1:C:61:VAL:HG11	1:C:88:VAL:HG11	1.81	0.63
1:D:722:GLU:HG3	1:D:723:ASP:H	1.63	0.63
1:A:655:PHE:HB3	1:A:663:VAL:HB	1.79	0.63
1:C:63:GLN:HB2	1:C:818:ARG:NH2	2.07	0.63
1:C:545:TYR:HD1	1:C:546:LEU:HD12	1.63	0.63
1:D:900:SER:HB3	1:D:1026:PHE:HA	1.80	0.63
1:E:801:PHE:HA	1:E:804:PHE:HE2	1.64	0.63
1:C:262:LEU:HG	1:C:268:ILE:HD11	1.80	0.63
1:D:944:LEU:HB3	1:D:971:ARG:NH1	2.13	0.63
1:F:669:PRO:HG2	1:F:671:ILE:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:559:LEU:HD21	1:A:922:THR:HA	1.80	0.63
1:A:582:ALA:HB1	1:A:586:ARG:HE	1.63	0.63
1:A:55:LYS:HG2	1:A:59:ASP:OD2	1.97	0.63
1:A:623:ASN:OD1	1:A:623:ASN:N	2.22	0.63
1:B:490:PRO:O	1:B:493:CYS:HB2	1.99	0.63
1:C:450:SER:OG	1:C:478:MET:SD	2.50	0.63
1:C:982:PHE:O	1:C:985:GLY:N	2.31	0.63
1:D:407:ASP:OD1	1:D:940:LYS:HG2	1.99	0.63
1:E:200:PRO:HB2	1:E:749:THR:HG22	1.80	0.63
1:F:908:GLY:HA2	1:F:1014:ALA:HB2	1.79	0.63
1:A:155:SER:HB3	1:A:180:SER:H	1.63	0.63
1:A:217:GLY:O	1:A:234:ILE:HB	1.98	0.63
1:B:407:ASP:OD1	1:B:978:THR:HG21	1.98	0.63
1:D:400:LEU:HD11	1:D:1007:VAL:HG21	1.79	0.63
1:B:703:LEU:HD11	1:B:718:PRO:HD3	1.80	0.63
1:A:105:VAL:CG1	1:B:105:VAL:HG12	2.27	0.63
1:A:281:PHE:HD1	1:A:610:PHE:HD1	1.44	0.63
1:B:591:LEU:HD13	1:B:611:ALA:HB1	1.80	0.63
1:D:17:ILE:CG2	1:E:886:LEU:HD21	2.29	0.63
1:D:777:ALA:HB1	1:F:225:VAL:HG22	1.80	0.63
1:F:307:ARG:NH1	1:F:311:ALA:HB2	2.13	0.63
1:A:452:VAL:HA	1:A:880:SER:OG	1.99	0.63
1:C:498:LYS:HG3	1:C:499:PRO:HD2	1.81	0.63
1:F:525:HIS:HA	1:F:528:THR:HG22	1.81	0.63
1:A:163:LYS:HD2	1:A:289:LEU:HD11	1.80	0.62
1:A:393:LEU:CD2	1:A:469:GLN:HG2	2.29	0.62
1:B:982:PHE:CE2	1:B:1007:VAL:HG13	2.34	0.62
1:C:27:ILE:HA	1:C:30:LEU:HB2	1.81	0.62
1:C:790:TYR:HE1	1:C:800:PRO:HB3	1.64	0.62
1:C:840:ALA:O	1:C:844:MET:HG2	1.98	0.62
1:F:1024:VAL:HA	1:F:1027:VAL:HG12	1.81	0.62
1:A:544:LEU:O	1:A:547:ILE:HB	1.99	0.62
1:B:445:ILE:HD13	1:B:940:LYS:HE2	1.80	0.62
1:C:38:ILE:HG23	1:C:462:SER:OG	1.99	0.62
1:C:65:ILE:HG21	1:C:111:LEU:HG	1.81	0.62
1:C:149:MET:HG3	1:C:154:ILE:HG13	1.81	0.62
1:F:898:PRO:HA	1:F:901:VAL:HG12	1.80	0.62
1:A:111:LEU:HD21	1:A:127:VAL:HG21	1.82	0.62
1:C:58:GLN:HB2	1:C:82:SER:OG	1.98	0.62
1:B:184:MET:HB2	1:B:762:PHE:CE2	2.34	0.62
1:B:451:ALA:HB1	1:B:883:VAL:HG13	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:162:MET:C	1:C:164:ASP:H	2.02	0.62
1:C:597:TYR:OH	1:C:651:ALA:HA	1.99	0.62
1:F:160:ALA:HA	1:F:767:ARG:NH1	2.15	0.62
1:F:307:ARG:HH12	1:F:311:ALA:HB2	1.62	0.62
1:A:70:ASN:HD22	1:A:70:ASN:H	1.46	0.62
1:B:817:GLU:OE1	1:B:826:GLU:N	2.32	0.62
1:C:187:TRP:HA	1:C:774:MET:O	2.00	0.62
1:A:680:PHE:CB	1:A:859:TRP:HZ3	2.11	0.62
1:A:971:ARG:HB3	1:A:971:ARG:NH1	2.13	0.62
1:B:379:THR:O	1:B:382:VAL:N	2.33	0.62
1:C:24:GLY:O	1:C:28:LEU:HG	1.99	0.62
1:E:122:VAL:O	1:E:125:GLN:N	2.28	0.62
1:F:158:VAL:HG22	1:F:162:MET:HE3	1.80	0.62
1:F:244:GLU:O	1:F:247:GLY:N	2.32	0.62
1:B:248:LYS:HA	1:B:261:LEU:HD13	1.82	0.62
1:B:534:ILE:HG22	2:B:2000:LMT:H3'	1.80	0.62
1:B:537:SER:HB2	1:B:540:ARG:CZ	2.30	0.62
1:B:944:LEU:HD13	1:B:971:ARG:HH12	1.63	0.62
1:C:699:ARG:HD3	1:C:825:MET:SD	2.40	0.62
1:C:961:ILE:HG22	1:C:965:LEU:HD12	1.82	0.62
1:D:948:PHE:O	1:D:952:LEU:HG	1.99	0.62
1:E:446:ALA:HB2	1:E:482:VAL:HG21	1.82	0.62
1:E:1013:THR:O	1:E:1017:LEU:HB2	1.98	0.62
1:A:33:ALA:HA	1:A:299:ALA:H	1.64	0.62
1:A:197:GLN:O	1:A:792:ARG:HD3	1.99	0.62
1:B:190:PRO:HG3	1:B:779:TYR:HB3	1.82	0.62
1:B:910:ILE:O	1:B:914:LEU:HB2	2.00	0.62
1:C:397:GLY:HA2	1:C:470:PHE:CD2	2.35	0.62
1:C:427:PRO:HD3	1:C:499:PRO:HB3	1.80	0.62
1:D:573:MET:HA	1:D:629:VAL:HG13	1.82	0.62
1:F:80:SER:OG	1:F:818:ARG:HB2	2.00	0.62
1:A:195:LYS:HB3	1:A:196:PHE:HD2	1.65	0.62
1:B:420:MET:HB3	1:B:500:ILE:HB	1.81	0.62
1:C:440:GLY:O	1:C:443:VAL:HG13	2.00	0.62
1:D:262:LEU:HG	1:D:268:ILE:HD11	1.82	0.62
1:E:1011:MET:O	1:E:1015:THR:HG23	1.98	0.62
1:F:278:ILE:HG23	1:F:613:ASN:HB3	1.82	0.62
1:A:591:LEU:HD13	1:A:611:ALA:HB1	1.81	0.62
1:B:219:LEU:HD23	1:C:754:TRP:CZ3	2.35	0.62
1:B:940:LYS:O	1:B:943:ILE:HB	1.99	0.62
1:E:910:ILE:O	1:E:914:LEU:HB2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:189:ASN:HB3	1:F:192:GLU:HB2	1.82	0.62
1:A:14:VAL:HG21	1:B:890:ALA:HB2	1.82	0.61
1:A:618:ALA:HB3	1:A:815:ARG:NH1	2.15	0.61
1:B:62:THR:HG21	1:B:818:ARG:HD2	1.80	0.61
1:C:671:ILE:HB	1:C:862:MET:SD	2.40	0.61
1:D:1038:GLU:CB	1:D:1040:ILE:HA	2.28	0.61
1:A:1038:GLU:HA	1:A:1039:ASP:HB2	1.81	0.61
1:B:426:PRO:HG2	1:B:429:GLU:HB3	1.81	0.61
1:B:687:GLN:NE2	1:B:856:GLY:HA3	2.15	0.61
1:B:960:LEU:O	1:B:964:THR:HG23	2.00	0.61
1:C:679:GLY:HA3	1:C:837:THR:CG2	2.30	0.61
1:D:909:VAL:HG22	1:D:931:LEU:HD11	1.82	0.61
1:A:445:ILE:HD13	1:A:940:LYS:CE	2.30	0.61
1:A:445:ILE:HG21	1:A:940:LYS:NZ	2.16	0.61
1:C:953:MET:N	1:C:953:MET:SD	2.73	0.61
1:D:360:GLN:HG2	1:D:513:PHE:HD2	1.65	0.61
1:D:696:THR:HG23	1:D:699:ARG:HH12	1.65	0.61
1:A:277:ILE:HD13	1:A:614:GLY:HA3	1.83	0.61
1:A:746:ILE:O	1:A:749:THR:OG1	2.16	0.61
1:B:531:VAL:O	1:B:534:ILE:HG12	2.00	0.61
1:C:119:PRO:HB2	1:C:122:VAL:HG23	1.82	0.61
1:C:242:SER:O	1:C:246:PHE:CD1	2.53	0.61
1:D:375:VAL:HG21	1:D:481:SER:HA	1.81	0.61
1:E:536:ARG:HH21	2:E:2000:LMT:C4B	2.10	0.61
1:C:75:LEU:HD12	1:C:93:THR:O	2.01	0.61
1:C:563:PHE:HB2	1:C:866:GLU:HG3	1.83	0.61
1:F:945:ILE:HG12	1:F:971:ARG:CZ	2.31	0.61
1:D:926:TYR:CE1	1:D:999:ALA:HB1	2.34	0.61
1:E:705:GLU:HA	1:E:708:LYS:HD2	1.81	0.61
1:A:36:PRO:O	1:A:38:ILE:HG13	2.00	0.61
1:B:686:ASP:HA	1:B:854:GLY:O	2.00	0.61
1:C:367:ILE:HG21	1:C:489:THR:OG1	2.00	0.61
1:C:669:PRO:HG3	1:C:675:GLY:HA3	1.81	0.61
1:D:986:VAL:HG21	1:D:1007:VAL:HG11	1.82	0.61
1:E:355:MET:SD	1:E:368:PRO:HG2	2.40	0.61
1:F:112:GLN:HA	1:F:115:MET:HB3	1.83	0.61
1:B:924:ASP:OD1	1:B:925:VAL:N	2.33	0.61
1:C:12:ALA:HB1	1:C:487:ILE:CG2	2.31	0.61
1:B:3:ASN:O	1:B:6:ILE:HG13	2.00	0.61
1:B:555:LEU:HD22	1:B:913:LEU:HB3	1.82	0.61
1:B:801:PHE:HA	1:B:804:PHE:HE2	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:24:GLY:O	1:E:28:LEU:HD22	2.00	0.61
1:E:418:ARG:O	1:E:422:GLU:HG3	2.00	0.61
1:F:352:PHE:HD1	1:F:369:THR:OG1	1.77	0.61
1:F:885:PHE:HB2	1:F:902:MET:SD	2.40	0.61
1:A:343:THR:HG21	1:A:989:LEU:HD11	1.82	0.61
1:A:396:PHE:O	1:A:400:LEU:HB2	2.00	0.61
1:B:46:SER:HA	1:B:88:VAL:O	2.01	0.61
1:B:72:ILE:HB	1:B:110:LYS:HZ1	1.65	0.61
1:C:225:VAL:O	1:C:228:GLN:HB3	2.00	0.61
1:B:675:GLY:HA2	1:B:862:MET:SD	2.41	0.60
1:B:871:ASN:OD1	1:B:871:ASN:N	2.34	0.60
1:D:971:ARG:C	1:D:974:PRO:HD2	2.20	0.60
1:E:420:MET:HG3	1:E:500:ILE:HB	1.81	0.60
1:A:249:ILE:O	1:A:262:LEU:N	2.34	0.60
1:A:728:LYS:HA	1:C:235:ILE:HB	1.83	0.60
1:C:227:GLY:O	1:C:229:GLN:HG2	2.01	0.60
1:D:972:LEU:HD13	1:D:976:LEU:HD13	1.83	0.60
1:E:559:LEU:HD12	1:E:923:ASN:HB2	1.83	0.60
1:F:140:VAL:HG11	1:F:310:LEU:HD21	1.84	0.60
1:B:225:VAL:N	1:C:781:MET:HE1	2.16	0.60
1:D:276:ASP:HB3	1:D:277:ILE:HD12	1.82	0.60
1:D:960:LEU:O	1:D:964:THR:HG23	2.02	0.60
1:E:203:VAL:O	1:E:207:ILE:HG13	2.02	0.60
1:F:637:ARG:HB3	1:F:642:ASN:HB3	1.83	0.60
1:A:618:ALA:HB3	1:A:815:ARG:HH12	1.65	0.60
1:B:38:ILE:HG21	1:B:671:ILE:HD13	1.84	0.60
1:B:163:LYS:NZ	1:B:163:LYS:HB3	2.16	0.60
1:C:699:ARG:HD2	1:C:827:ILE:HD11	1.83	0.60
1:C:762:PHE:CE1	1:C:764:ASP:HB2	2.36	0.60
1:A:441:ALA:O	1:A:445:ILE:HG23	2.00	0.60
1:B:139:VAL:HB	1:B:327:TYR:HB3	1.84	0.60
1:B:618:ALA:HB1	1:B:720:GLY:HA2	1.82	0.60
1:C:65:ILE:HA	1:C:114:ALA:HB1	1.82	0.60
1:C:240:LEU:HD23	1:C:246:PHE:CE2	2.37	0.60
1:C:255:GLN:H	1:C:255:GLN:CD	2.05	0.60
1:D:428:LYS:HZ2	1:D:428:LYS:N	1.97	0.60
1:A:233:SER:HB2	1:B:726:GLN:HB3	1.83	0.60
1:A:1030:ARG:C	1:A:1032:ARG:H	2.04	0.60
1:C:758:TYR:CE1	1:C:770:LYS:HD3	2.37	0.60
1:F:13:TRP:CE3	1:F:13:TRP:HA	2.37	0.60
1:F:340:VAL:HG12	1:F:395:MET:HE3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:222:THR:HA	1:A:224:PRO:HD3	1.83	0.60
1:B:832:ALA:HB3	1:B:835:LYS:HD3	1.83	0.60
1:C:525:HIS:HA	1:C:528:THR:HG22	1.83	0.60
1:C:693:GLU:N	1:C:694:LYS:HZ3	1.98	0.60
1:C:961:ILE:HD12	1:C:961:ILE:H	1.67	0.60
1:D:356:TYR:HD1	1:D:365:THR:HG21	1.65	0.60
1:E:197:GLN:O	1:E:792:ARG:HD3	2.02	0.60
1:E:801:PHE:HA	1:E:804:PHE:CE2	2.36	0.60
1:F:562:SER:OG	1:F:924:ASP:HB3	2.02	0.60
1:F:672:VAL:HG23	1:F:673:GLU:HG2	1.83	0.60
1:D:23:GLY:O	1:D:27:ILE:HG13	2.02	0.60
1:D:686:ASP:HB2	1:D:695:LEU:HG	1.84	0.60
1:D:895:TRP:O	1:D:898:PRO:HD2	2.01	0.60
1:D:1018:ALA:O	1:D:1022:VAL:HG23	2.02	0.60
1:E:682:PHE:CZ	1:E:857:TYR:HB2	2.37	0.60
1:B:139:VAL:O	1:B:326:PRO:HD2	2.00	0.60
1:B:905:VAL:HG22	1:B:935:ILE:HD12	1.84	0.60
1:C:693:GLU:HB3	1:C:694:LYS:HD3	1.83	0.60
1:C:923:ASN:O	1:C:923:ASN:ND2	2.28	0.60
1:D:112:GLN:NE2	1:E:112:GLN:HB3	2.16	0.60
1:D:1040:ILE:HG13	1:D:1041:GLU:N	2.17	0.60
1:A:274:ASN:OD1	1:A:275:TYR:N	2.35	0.59
1:B:218:GLN:HG3	1:B:221:GLY:HA2	1.84	0.59
1:C:137:LEU:HB2	1:C:293:LEU:HD23	1.83	0.59
1:D:4:PHE:HB3	1:D:8:ARG:NH1	2.16	0.59
1:D:195:LYS:HG2	1:D:196:PHE:CE2	2.37	0.59
1:E:196:PHE:O	1:E:252:LYS:NZ	2.35	0.59
1:E:236:ALA:O	1:F:728:LYS:NZ	2.23	0.59
1:E:898:PRO:O	1:E:901:VAL:HG12	2.02	0.59
1:F:189:ASN:O	1:F:193:LEU:HD23	2.02	0.59
1:A:414:GLU:HG3	1:A:974:PRO:HG3	1.82	0.59
1:A:524:THR:O	1:A:527:TYR:HB3	2.03	0.59
1:C:242:SER:O	1:C:246:PHE:HD1	1.85	0.59
1:D:211:ASN:ND2	1:D:760:ASN:HD22	2.00	0.59
1:D:284:GLN:HG3	1:D:285:PRO:HD2	1.84	0.59
1:F:149:MET:HG3	1:F:154:ILE:HG13	1.83	0.59
1:F:615:ALA:HB2	1:F:620:ARG:HG2	1.84	0.59
1:A:367:ILE:HG12	1:A:496:MET:CE	2.33	0.59
1:B:38:ILE:HG23	1:B:462:SER:HB3	1.83	0.59
1:B:58:GLN:O	1:B:63:GLN:HG3	2.02	0.59
1:C:5:PHE:C	1:C:7:ASP:H	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:228:GLN:OE1	1:C:229:GLN:N	2.35	0.59
1:D:525:HIS:HA	1:D:528:THR:HG22	1.84	0.59
1:D:971:ARG:O	1:D:974:PRO:HD2	2.02	0.59
1:E:373:PRO:O	1:E:377:LEU:N	2.35	0.59
1:F:876:LEU:HD21	1:F:932:LEU:HD11	1.82	0.59
1:A:161:ASN:HD22	1:A:161:ASN:N	2.00	0.59
1:A:189:ASN:O	1:A:193:LEU:HD23	2.02	0.59
1:A:836:SER:OG	1:A:839:GLU:HG3	2.01	0.59
1:A:945:ILE:HG13	1:A:971:ARG:CZ	2.32	0.59
1:B:185:ARG:HB3	1:B:187:TRP:NE1	2.17	0.59
1:C:186:ILE:HB	1:C:773:VAL:HG12	1.83	0.59
1:C:888:LEU:HD13	1:C:901:VAL:HG11	1.84	0.59
1:D:17:ILE:HG21	1:E:886:LEU:HD21	1.85	0.59
1:D:872:GLN:O	1:D:875:SER:OG	2.19	0.59
1:E:417:GLU:HG2	1:E:497:LEU:HD21	1.83	0.59
1:F:62:THR:O	1:F:65:ILE:HG12	2.03	0.59
1:F:808:ARG:HD3	1:F:808:ARG:N	2.18	0.59
1:A:41:PRO:HG2	1:A:94:PHE:HB2	1.84	0.59
1:B:714:THR:HG22	1:B:830:GLN:HB2	1.83	0.59
1:D:143:ILE:O	1:D:321:LEU:HD22	2.01	0.59
1:D:445:ILE:HD13	1:D:940:LYS:HD2	1.83	0.59
1:E:685:ILE:HD11	1:E:819:TYR:HB3	1.84	0.59
1:E:762:PHE:CE1	1:E:764:ASP:HB2	2.38	0.59
1:A:108:GLN:NE2	1:B:113:LEU:HD11	2.17	0.59
1:A:960:LEU:HD21	1:A:1027:VAL:HG13	1.84	0.59
1:B:944:LEU:HB3	1:B:971:ARG:NH1	2.18	0.59
1:F:453:PHE:CD2	1:F:456:MET:HE2	2.38	0.59
1:A:76:MET:SD	1:A:864:TYR:HE2	2.25	0.59
1:A:844:MET:HE2	1:A:847:LEU:HD12	1.85	0.59
1:B:408:ASP:OD1	1:B:940:LYS:NZ	2.35	0.59
1:C:303:ALA:HA	1:C:306:ILE:HG22	1.84	0.59
1:C:337:ILE:HA	1:C:340:VAL:HG22	1.84	0.59
1:D:58:GLN:HA	1:D:62:THR:HB	1.84	0.59
1:F:965:LEU:HA	1:F:968:VAL:HG22	1.85	0.59
1:B:220:GLY:H	1:C:781:MET:HA	1.68	0.59
1:B:480:LEU:O	1:B:484:VAL:HG13	2.03	0.59
1:B:889:ALA:HB2	1:B:898:PRO:HG3	1.84	0.59
1:C:740:GLY:O	1:C:794:ALA:N	2.31	0.59
1:F:151:GLN:OE1	1:F:151:GLN:N	2.25	0.59
1:F:210:GLN:NE2	1:F:250:LEU:O	2.36	0.59
1:F:597:TYR:CD2	1:F:655:PHE:HZ	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:777:ALA:O	1:B:781:MET:HG3	2.03	0.59
1:B:831:ALA:HB2	1:B:837:THR:HA	1.84	0.59
1:C:578:LEU:HD13	1:C:661:ALA:HB2	1.83	0.59
1:E:120:GLN:HA	1:E:123:GLN:HB2	1.83	0.59
1:E:146:ASP:OD2	1:E:320:GLY:HA3	2.03	0.59
1:F:578:LEU:CD1	1:F:579:PRO:HD2	2.32	0.59
1:A:108:GLN:HG2	1:B:113:LEU:HD21	1.84	0.59
1:B:250:LEU:HD22	1:C:734:GLU:HG2	1.85	0.59
1:D:684:LEU:O	1:D:824:SER:OG	2.16	0.59
1:D:1030:ARG:NE	1:D:1033:PHE:HD2	2.00	0.59
1:F:101:ASP:O	1:F:105:VAL:HG23	2.02	0.59
1:F:728:LYS:HG2	1:F:808:ARG:NH2	2.14	0.59
1:A:249:ILE:HB	1:A:262:LEU:HB2	1.85	0.58
1:B:459:PHE:HD2	1:B:460:GLY:H	1.49	0.58
1:C:466:ILE:O	1:C:470:PHE:HD1	1.85	0.58
1:B:455:PRO:HG2	1:B:880:SER:HA	1.85	0.58
1:B:1037:ASN:HA	1:B:1038:GLU:HB2	1.86	0.58
1:C:958:LYS:HA	1:C:1041:GLU:OE2	2.03	0.58
1:D:68:ASN:O	1:D:110:LYS:HD2	2.03	0.58
1:D:573:MET:HG3	1:D:666:PHE:CE1	2.38	0.58
1:E:3:ASN:OD1	1:E:4:PHE:N	2.34	0.58
1:F:146:ASP:O	1:F:148:THR:N	2.37	0.58
1:F:201:VAL:HA	1:F:204:ILE:HD12	1.84	0.58
1:B:203:VAL:O	1:B:207:ILE:HG12	2.03	0.58
1:B:228:GLN:NE2	1:B:230:LEU:O	2.37	0.58
1:B:344:LEU:HD12	1:B:399:VAL:HG22	1.85	0.58
1:B:944:LEU:HD12	1:B:975:ILE:HG12	1.85	0.58
1:E:259:ARG:H	1:E:259:ARG:HD3	1.68	0.58
1:E:685:ILE:HD13	1:E:824:SER:HB3	1.84	0.58
1:A:108:GLN:NE2	1:A:129:VAL:HB	2.18	0.58
1:A:350:LEU:O	1:A:353:LEU:HB2	2.03	0.58
1:A:393:LEU:HD23	1:A:469:GLN:HG2	1.85	0.58
1:A:485:ALA:HA	1:A:489:THR:HB	1.84	0.58
1:B:880:SER:O	1:B:884:VAL:HG23	2.02	0.58
1:B:947:GLU:HG3	1:B:948:PHE:CD1	2.38	0.58
1:E:222:THR:HA	1:E:224:PRO:HD3	1.83	0.58
1:E:438:ILE:O	1:E:442:LEU:HG	2.03	0.58
1:E:944:LEU:HD12	1:E:971:ARG:NH2	2.18	0.58
1:C:25:LEU:HD23	1:C:28:LEU:HD12	1.85	0.58
1:C:790:TYR:CE1	1:C:800:PRO:HB3	2.38	0.58
1:E:877:TYR:O	1:E:881:LEU:HG	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:588:GLN:HB2	1:E:613:ASN:HD21	1.69	0.58
1:B:564:LEU:HD22	1:B:671:ILE:HG13	1.85	0.58
1:D:166:ILE:O	1:D:169:THR:HG22	2.03	0.58
1:D:1021:PHE:HB3	1:D:1025:PHE:CE1	2.39	0.58
1:F:252:LYS:NZ	1:F:254:ASN:OD1	2.36	0.58
1:A:138:MET:HG2	1:A:291:ILE:HD12	1.85	0.58
1:C:206:ALA:O	1:C:210:GLN:HG3	2.04	0.58
1:C:1038:GLU:HA	1:C:1039:ASP:HB2	1.84	0.58
1:D:164:ASP:OD2	1:E:67:GLN:HG2	2.04	0.58
1:D:188:MET:HE1	1:D:200:PRO:HG3	1.85	0.58
1:E:780:ARG:HD2	1:E:780:ARG:O	2.03	0.58
1:E:957:GLY:CA	1:E:1042:HIS:HB3	2.34	0.58
1:F:227:GLY:O	1:F:229:GLN:HG2	2.04	0.58
1:F:307:ARG:HH11	1:F:307:ARG:HG3	1.68	0.58
1:A:3:ASN:O	1:A:6:ILE:HG23	2.04	0.58
1:A:760:ASN:O	1:A:771:VAL:HB	2.04	0.58
1:A:1028:VAL:HG13	1:A:1032:ARG:NH1	2.19	0.58
1:B:178:PHE:O	1:B:287:SER:OG	2.17	0.58
1:B:727:PHE:HB2	1:B:809:TRP:HZ3	1.67	0.58
1:C:98:THR:HG22	1:C:98:THR:O	2.04	0.58
1:C:101:ASP:OD1	1:C:131:LYS:NZ	2.37	0.58
1:C:682:PHE:O	1:C:826:GLU:HA	2.04	0.58
1:D:54:ALA:HB2	1:D:84:SER:HB3	1.85	0.58
1:F:940:LYS:O	1:F:943:ILE:HB	2.04	0.58
1:A:5:PHE:CE1	1:A:487:ILE:HG12	2.39	0.58
1:A:169:THR:HG22	1:A:172:VAL:HG23	1.86	0.58
1:A:795:ASP:OD2	1:A:796:GLY:N	2.34	0.58
1:B:923:ASN:O	1:B:923:ASN:ND2	2.37	0.58
1:C:12:ALA:HB1	1:C:487:ILE:HG23	1.86	0.58
1:C:578:LEU:HD13	1:C:579:PRO:HD2	1.84	0.58
1:C:859:TRP:HE3	1:C:863:SER:HG	1.50	0.58
1:E:119:PRO:O	1:E:123:GLN:HG3	2.04	0.58
1:F:921:LEU:HD11	1:F:1005:THR:HB	1.86	0.58
1:B:982:PHE:CD2	1:B:1011:MET:HG3	2.39	0.57
1:C:445:ILE:HD11	1:C:940:LYS:HG3	1.85	0.57
1:C:1035:ARG:NE	1:C:1035:ARG:HA	2.19	0.57
1:D:555:LEU:HD22	1:D:913:LEU:HB3	1.85	0.57
1:E:401:ALA:HB2	1:E:474:ILE:HG23	1.86	0.57
1:A:961:ILE:HG13	1:A:1039:ASP:OD2	2.03	0.57
1:B:77:TYR:CZ	1:B:93:THR:HB	2.40	0.57
1:B:146:ASP:O	1:B:148:THR:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:295:THR:O	1:B:295:THR:OG1	2.18	0.57
1:B:343:THR:HG21	1:B:989:LEU:CD2	2.34	0.57
1:B:352:PHE:HD1	1:B:369:THR:HG1	1.51	0.57
1:B:361:ASN:HB3	1:B:364:ALA:HB3	1.86	0.57
1:B:508:GLY:H	1:B:518:ARG:HG3	1.69	0.57
1:C:74:ASN:HB2	1:C:98:THR:HG21	1.85	0.57
1:C:157:TYR:HE2	1:C:161:ASN:CG	2.06	0.57
1:C:714:THR:HB	1:C:832:ALA:HA	1.86	0.57
1:D:218:GLN:OE1	1:D:231:ASN:ND2	2.35	0.57
1:D:350:LEU:HD13	1:D:985:GLY:HA2	1.86	0.57
1:D:668:LEU:H	1:D:668:LEU:HD23	1.70	0.57
1:E:556:PHE:HD1	1:E:913:LEU:HD21	1.69	0.57
1:F:190:PRO:HG3	1:F:779:TYR:CG	2.39	0.57
1:F:836:SER:HB2	1:F:922:THR:HG21	1.86	0.57
1:A:359:LEU:C	1:A:360:GLN:HG2	2.23	0.57
1:A:616:GLY:HA2	1:A:626:ILE:CD1	2.35	0.57
1:B:448:VAL:O	1:B:452:VAL:HG13	2.05	0.57
1:B:520:PHE:HZ	1:B:973:ARG:HA	1.68	0.57
1:B:717:ARG:NE	1:B:828:LEU:HB2	2.17	0.57
1:D:278:ILE:HG23	1:D:613:ASN:HB3	1.86	0.57
1:D:367:ILE:HB	1:D:368:PRO:HD3	1.86	0.57
1:D:591:LEU:HD13	1:D:611:ALA:HB1	1.85	0.57
1:D:841:MET:HG2	1:D:859:TRP:CH2	2.39	0.57
1:F:682:PHE:CE1	1:F:857:TYR:HB2	2.39	0.57
1:F:801:PHE:HA	1:F:804:PHE:HE2	1.69	0.57
1:A:982:PHE:O	1:A:985:GLY:N	2.34	0.57
1:C:200:PRO:HB2	1:C:749:THR:HG22	1.87	0.57
1:C:559:LEU:HD22	1:C:560:PRO:HD2	1.87	0.57
1:F:870:GLY:C	1:F:872:GLN:H	2.08	0.57
1:B:356:TYR:HA	1:B:365:THR:OG1	2.05	0.57
1:B:634:TRP:CD1	1:B:634:TRP:N	2.70	0.57
1:B:717:ARG:HE	1:B:828:LEU:CB	2.14	0.57
1:C:35:TYR:HB3	1:C:38:ILE:HD12	1.85	0.57
1:C:367:ILE:HB	1:C:368:PRO:HD3	1.87	0.57
1:E:184:MET:HB2	1:E:762:PHE:CE2	2.39	0.57
1:A:909:VAL:O	1:A:912:ALA:N	2.38	0.57
1:C:64:VAL:HG13	1:C:117:LEU:HB2	1.86	0.57
1:C:419:VAL:HG21	1:C:434:SER:HB2	1.87	0.57
1:C:470:PHE:O	1:C:474:ILE:HG13	2.05	0.57
1:C:699:ARG:HG3	1:C:827:ILE:HD11	1.86	0.57
1:D:524:THR:O	1:D:527:TYR:HB3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:84:SER:HB2	1:F:814:PRO:O	2.05	0.57
1:C:510:LYS:HD2	1:C:511:GLY:H	1.69	0.57
1:C:940:LYS:HD3	1:C:941:ASN:N	2.20	0.57
1:D:602:GLU:OE2	1:D:647:ILE:HG12	2.04	0.57
1:E:399:VAL:HA	1:E:402:ILE:HG13	1.87	0.57
1:E:442:LEU:HA	1:E:445:ILE:HG12	1.86	0.57
1:F:186:ILE:HB	1:F:773:VAL:HG12	1.86	0.57
1:F:351:VAL:HG21	1:F:402:ILE:HG22	1.86	0.57
1:B:58:GLN:O	1:B:62:THR:HB	2.04	0.57
1:B:394:THR:HG22	1:B:473:THR:OG1	2.04	0.57
1:B:484:VAL:HB	1:B:488:LEU:HB3	1.86	0.57
1:B:576:VAL:HA	1:B:663:VAL:HG13	1.87	0.57
1:C:53:ASP:O	1:C:57:VAL:HG22	2.05	0.57
1:C:407:ASP:OD2	1:C:940:LYS:NZ	2.24	0.57
1:C:422:GLU:OE2	1:C:423:GLU:HB3	2.04	0.57
1:C:674:LEU:HD22	1:C:861:GLY:HA2	1.87	0.57
1:D:533:GLY:HA2	1:D:536:ARG:HD2	1.87	0.57
1:D:944:LEU:HB3	1:D:971:ARG:HH12	1.68	0.57
1:E:545:TYR:HD1	1:E:546:LEU:HD23	1.70	0.57
1:E:777:ALA:O	1:E:781:MET:HG3	2.05	0.57
1:F:394:THR:O	1:F:398:MET:HG3	2.04	0.57
1:C:81:ASN:ND2	1:C:89:GLN:OE1	2.21	0.57
1:C:572:PHE:CD2	1:C:631:LEU:HD11	2.38	0.57
1:D:30:LEU:HG	1:D:390:ILE:HG12	1.86	0.57
1:E:281:PHE:HD1	1:E:610:PHE:HD1	1.53	0.57
1:E:775:SER:OG	1:E:780:ARG:HG2	2.04	0.57
1:A:15:ILE:HD12	1:A:487:ILE:HD13	1.86	0.57
1:A:143:ILE:HG22	1:A:286:ALA:HB2	1.87	0.57
1:A:463:THR:O	1:A:467:TYR:HD1	1.88	0.57
1:B:166:ILE:O	1:B:169:THR:HB	2.04	0.57
1:B:801:PHE:HA	1:B:804:PHE:CE2	2.39	0.57
1:C:483:LEU:HD23	1:C:486:LEU:HD21	1.86	0.57
1:C:880:SER:O	1:C:883:VAL:HG12	2.05	0.57
1:D:74:ASN:HB3	1:D:95:GLU:HB2	1.87	0.57
1:E:201:VAL:HG23	1:E:749:THR:HG23	1.87	0.57
1:E:324:VAL:O	1:E:326:PRO:HD3	2.05	0.57
1:A:58:GLN:OE1	1:A:816:LEU:HB3	2.05	0.56
1:A:637:ARG:NH1	1:A:642:ASN:O	2.38	0.56
1:A:818:ARG:NH1	1:A:823:PRO:HG3	2.19	0.56
1:B:18:ILE:HD11	1:C:886:LEU:HB3	1.87	0.56
1:B:274:ASN:OD1	1:B:276:ASP:N	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:274:ASN:OD1	1:B:275:TYR:N	2.38	0.56
1:B:356:TYR:O	1:B:360:GLN:HG3	2.05	0.56
1:C:240:LEU:HB2	1:C:246:PHE:CZ	2.40	0.56
1:C:743:ILE:O	1:C:746:ILE:HG23	2.04	0.56
1:C:841:MET:HG3	1:C:859:TRP:CZ2	2.40	0.56
1:D:211:ASN:OD1	1:D:240:LEU:HG	2.04	0.56
1:A:181:GLN:HG2	1:A:182:TYR:N	2.19	0.56
1:B:111:LEU:HD22	1:B:114:ALA:HB3	1.87	0.56
1:B:293:LEU:HD22	1:B:294:ALA:H	1.71	0.56
1:C:62:THR:HG21	1:C:80:SER:HB2	1.86	0.56
1:C:444:GLY:O	1:C:448:VAL:HG13	2.04	0.56
1:D:948:PHE:CE2	1:D:971:ARG:HD3	2.41	0.56
1:E:46:SER:OG	1:E:89:GLN:HG2	2.06	0.56
1:E:250:LEU:HD21	1:F:734:GLU:HG3	1.87	0.56
1:F:336:SER:O	1:F:340:VAL:HG23	2.05	0.56
1:A:911:GLY:HA3	1:A:1013:THR:HG21	1.87	0.56
1:A:954:ASP:HB3	1:A:955:LYS:HD3	1.87	0.56
1:A:1019:ILE:HG13	1:A:1020:PHE:CD1	2.40	0.56
1:B:240:LEU:HB2	1:B:246:PHE:CE1	2.39	0.56
1:B:251:LEU:HD21	1:B:262:LEU:HB2	1.88	0.56
1:C:453:PHE:CD2	1:C:471:SER:HA	2.41	0.56
1:D:69:MET:CE	1:D:107:VAL:HG13	2.35	0.56
1:D:170:SER:HB2	1:E:75:LEU:H	1.69	0.56
1:D:544:LEU:HD23	1:D:548:ILE:HD11	1.86	0.56
1:D:909:VAL:O	1:D:912:ALA:N	2.36	0.56
1:E:73:ASP:OD2	1:E:73:ASP:N	2.32	0.56
1:E:108:GLN:NE2	1:F:109:ASN:OD1	2.38	0.56
1:E:186:ILE:HD13	1:E:262:LEU:HD21	1.86	0.56
1:E:420:MET:CG	1:E:500:ILE:HB	2.35	0.56
1:E:727:PHE:CZ	1:E:807:SER:HB2	2.41	0.56
1:F:155:SER:CB	1:F:180:SER:H	2.18	0.56
1:B:14:VAL:HG13	1:B:18:ILE:HD12	1.88	0.56
1:B:578:LEU:HD11	1:B:586:ARG:HB2	1.87	0.56
1:C:506:GLY:C	1:C:508:GLY:H	2.09	0.56
1:C:699:ARG:HH11	1:C:825:MET:HB3	1.69	0.56
1:D:343:THR:HG22	1:D:399:VAL:HG21	1.86	0.56
1:D:400:LEU:HD23	1:D:929:VAL:HG12	1.88	0.56
1:E:135:SER:HB2	1:E:673:GLU:OE2	2.05	0.56
1:F:139:VAL:O	1:F:326:PRO:HD2	2.06	0.56
1:A:438:ILE:O	1:A:441:ALA:HB3	2.04	0.56
1:B:108:GLN:CB	1:B:129:VAL:HG11	2.31	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:451:ALA:HB1	1:B:883:VAL:HG22	1.88	0.56
1:B:702:LEU:HD12	1:B:705:GLU:HB3	1.87	0.56
1:C:445:ILE:HG23	1:C:449:LEU:HD12	1.88	0.56
1:D:511:GLY:HA2	1:D:515:TRP:CD1	2.40	0.56
1:A:488:LEU:O	1:A:492:LEU:N	2.39	0.56
1:B:213:GLN:HG2	1:B:239:ARG:HG3	1.87	0.56
1:B:696:THR:HG22	1:B:699:ARG:HH12	1.70	0.56
1:D:169:THR:HG21	1:D:306:ILE:HG12	1.88	0.56
1:F:6:ILE:HG22	1:F:12:ALA:HB2	1.87	0.56
1:A:108:GLN:HB2	1:B:109:ASN:HB3	1.87	0.56
1:A:190:PRO:HG3	1:A:779:TYR:HB3	1.87	0.56
1:A:513:PHE:O	1:A:516:PHE:HB3	2.04	0.56
1:B:375:VAL:HG13	1:B:480:LEU:HD21	1.86	0.56
1:B:946:VAL:HG13	1:B:1026:PHE:CD2	2.41	0.56
1:C:107:VAL:HA	1:C:110:LYS:HB2	1.88	0.56
1:C:1027:VAL:HG13	1:C:1028:VAL:N	2.21	0.56
1:D:190:PRO:HB3	1:D:789:TRP:CZ3	2.41	0.56
1:D:293:LEU:HD13	1:D:294:ALA:H	1.71	0.56
1:D:922:THR:O	1:D:924:ASP:N	2.38	0.56
1:E:544:LEU:O	1:E:547:ILE:HB	2.04	0.56
1:F:379:THR:O	1:F:382:VAL:HG12	2.04	0.56
1:F:1033:PHE:C	1:F:1035:ARG:H	2.08	0.56
1:A:65:ILE:HG22	1:A:69:MET:HB2	1.87	0.56
1:B:54:ALA:HB1	1:B:816:LEU:HG	1.87	0.56
1:B:336:SER:O	1:B:340:VAL:HG23	2.05	0.56
1:B:382:VAL:HG11	1:B:476:SER:OG	2.06	0.56
1:B:455:PRO:HB3	1:B:879:ILE:HG22	1.88	0.56
1:C:394:THR:HA	1:C:469:GLN:HB3	1.88	0.56
1:D:236:ALA:O	1:E:728:LYS:NZ	2.39	0.56
1:D:1037:ASN:CA	1:D:1038:GLU:HB2	2.35	0.56
1:E:17:ILE:HG21	1:F:886:LEU:HD21	1.88	0.56
1:E:420:MET:HE2	1:E:500:ILE:H	1.71	0.56
1:F:166:ILE:HD12	1:F:306:ILE:HD12	1.88	0.56
1:F:293:LEU:HD13	1:F:294:ALA:H	1.70	0.56
1:F:578:LEU:HD12	1:F:661:ALA:HB2	1.85	0.56
1:A:578:LEU:HD13	1:A:579:PRO:HD2	1.87	0.56
1:A:680:PHE:CE2	1:A:829:GLY:HA3	2.40	0.56
1:B:350:LEU:HD22	1:B:984:LEU:HD12	1.88	0.56
1:B:367:ILE:HG23	1:B:368:PRO:HD3	1.87	0.56
1:B:398:MET:HG2	1:B:473:THR:CG2	2.36	0.56
1:C:545:TYR:CE1	1:C:903:LEU:HD23	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:728:LYS:HG2	1:C:808:ARG:CZ	2.35	0.56
1:D:362:PHE:HB2	1:D:363:ARG:HH11	1.69	0.56
1:F:193:LEU:HD22	1:F:265:VAL:HB	1.88	0.56
1:B:72:ILE:HD13	1:B:107:VAL:HG23	1.88	0.56
1:B:164:ASP:OD1	1:C:67:GLN:HA	2.06	0.56
1:B:844:MET:HG3	1:B:845:GLU:N	2.20	0.56
1:D:764:ASP:O	1:D:766:GLY:N	2.35	0.56
1:F:172:VAL:HG13	1:F:291:ILE:HG23	1.86	0.56
1:F:702:LEU:HD12	1:F:851:LEU:HD11	1.87	0.56
1:F:841:MET:HG3	1:F:859:TRP:CZ2	2.41	0.56
1:A:162:MET:HA	1:A:313:MET:SD	2.46	0.55
1:A:898:PRO:HA	1:A:901:VAL:HG12	1.88	0.55
1:B:435:MET:CE	1:B:490:PRO:HB3	2.37	0.55
1:B:449:LEU:HD23	1:B:478:MET:HG3	1.87	0.55
1:B:790:TYR:CD1	1:B:800:PRO:HA	2.41	0.55
1:D:641:GLU:H	1:D:641:GLU:CD	2.08	0.55
1:D:743:ILE:HA	1:D:746:ILE:HG13	1.88	0.55
1:D:987:MET:HB3	1:D:988:PRO:HD3	1.88	0.55
1:E:165:ALA:HB3	1:E:313:MET:HE2	1.88	0.55
1:E:520:PHE:HE2	1:E:973:ARG:HG3	1.68	0.55
1:F:678:THR:O	1:F:830:GLN:HG2	2.06	0.55
1:A:527:TYR:CE2	1:A:972:LEU:HG	2.40	0.55
1:A:1038:GLU:CA	1:A:1039:ASP:HB2	2.36	0.55
1:C:272:GLY:N	1:C:275:TYR:OH	2.39	0.55
1:C:465:ALA:O	1:C:469:GLN:HG2	2.05	0.55
1:D:527:TYR:O	1:D:530:SER:HB3	2.07	0.55
1:D:549:VAL:HG22	1:D:906:PRO:HG2	1.88	0.55
1:D:801:PHE:CD1	1:D:805:SER:HB3	2.40	0.55
1:F:58:GLN:OE1	1:F:818:ARG:NH1	2.39	0.55
1:F:77:TYR:CD1	1:F:93:THR:HB	2.41	0.55
1:F:186:ILE:HG13	1:F:268:ILE:HG13	1.87	0.55
1:A:508:GLY:N	1:A:518:ARG:HG3	2.20	0.55
1:A:979:SER:OG	1:A:1015:THR:HG21	2.06	0.55
1:B:369:THR:O	1:B:372:VAL:HG23	2.07	0.55
1:B:602:GLU:OE2	1:B:647:ILE:HG12	2.06	0.55
1:C:680:PHE:CD2	1:C:859:TRP:HZ3	2.24	0.55
1:D:167:SER:OG	1:E:70:ASN:HB2	2.07	0.55
1:D:781:MET:HE1	1:F:225:VAL:N	2.10	0.55
1:F:155:SER:HB3	1:F:180:SER:N	2.21	0.55
1:F:744:ASN:O	1:F:748:THR:HG23	2.06	0.55
1:A:622:GLN:NE2	1:C:231:ASN:OD1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:310:LEU:HD12	1:B:323:ILE:HG13	1.88	0.55
1:D:30:LEU:HD13	1:D:384:ALA:HB2	1.88	0.55
1:D:225:VAL:HG13	1:E:781:MET:SD	2.47	0.55
1:D:514:GLY:HA2	1:D:517:ASN:ND2	2.15	0.55
1:A:359:LEU:HD13	1:A:417:GLU:HG3	1.89	0.55
1:A:515:TRP:HB3	1:A:519:MET:CE	2.37	0.55
1:B:1011:MET:O	1:B:1015:THR:HG23	2.07	0.55
1:C:151:GLN:O	1:C:155:SER:OG	2.17	0.55
1:C:346:GLU:O	1:C:350:LEU:HD22	2.07	0.55
1:C:876:LEU:HD21	1:C:932:LEU:HD11	1.89	0.55
1:E:961:ILE:O	1:E:965:LEU:HD22	2.07	0.55
1:F:9:PRO:HG3	1:F:495:THR:HG21	1.88	0.55
1:B:682:PHE:HE2	1:B:857:TYR:HA	1.72	0.55
1:C:83:ASP:HB3	1:C:87:THR:O	2.07	0.55
1:D:764:ASP:C	1:D:766:GLY:H	2.09	0.55
1:E:767:ARG:HH22	1:F:67:GLN:CD	2.09	0.55
1:F:149:MET:HB2	1:F:153:ASP:HB3	1.87	0.55
1:F:504:ASP:O	1:F:506:GLY:N	2.40	0.55
1:B:35:TYR:OH	1:B:670:ALA:HB1	2.06	0.55
1:B:867:ARG:O	1:B:867:ARG:NE	2.22	0.55
1:C:728:LYS:HG2	1:C:808:ARG:NH2	2.22	0.55
1:D:671:ILE:HD13	1:D:674:LEU:N	2.19	0.55
1:E:133:SER:OG	1:E:292:LYS:NZ	2.38	0.55
1:E:894:SER:HB3	1:E:897:ILE:HG12	1.88	0.55
1:F:679:GLY:HA2	1:F:837:THR:HG23	1.88	0.55
1:F:924:ASP:OD1	1:F:926:TYR:N	2.40	0.55
1:A:239:ARG:HD3	1:A:761:ASP:O	2.07	0.55
1:A:582:ALA:CB	1:A:586:ARG:HE	2.20	0.55
1:A:602:GLU:HB3	1:A:606:VAL:HG23	1.89	0.55
1:D:909:VAL:HG13	1:D:931:LEU:HD21	1.88	0.55
1:E:10:ILE:HG13	1:F:895:TRP:CZ2	2.42	0.55
1:E:580:ALA:HB1	1:E:724:THR:HG22	1.88	0.55
1:E:790:TYR:HB3	1:E:798:MET:HB3	1.89	0.55
1:F:699:ARG:HD3	1:F:825:MET:SD	2.47	0.55
1:A:136:PHE:HA	1:A:292:LYS:HA	1.88	0.55
1:B:239:ARG:HD2	1:B:763:ILE:HD11	1.87	0.55
1:C:84:SER:HB2	1:C:814:PRO:HA	1.89	0.55
1:D:38:ILE:HB	1:D:462:SER:OG	2.07	0.55
1:D:641:GLU:OE1	1:D:641:GLU:N	2.40	0.55
1:F:520:PHE:HE2	1:F:973:ARG:HG3	1.71	0.55
1:F:906:PRO:O	1:F:910:ILE:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:990:VAL:HG21	1:F:1008:MET:SD	2.47	0.55
1:A:344:LEU:HG	1:A:399:VAL:HG23	1.88	0.55
1:A:905:VAL:HG23	1:A:906:PRO:HD3	1.89	0.55
1:C:213:GLN:HA	1:C:237:GLN:O	2.07	0.55
1:C:557:VAL:C	1:C:559:LEU:H	2.10	0.55
1:C:960:LEU:HD23	1:C:1031:ARG:HH21	1.72	0.55
1:D:136:PHE:CE2	1:D:290:GLY:HA3	2.42	0.55
1:D:728:LYS:HD2	1:F:235:ILE:HB	1.89	0.55
1:D:850:LYS:NZ	1:D:850:LYS:HB2	2.22	0.55
1:E:60:THR:HG22	1:E:119:PRO:HD3	1.87	0.55
1:E:130:GLU:HG2	1:F:113:LEU:HD21	1.89	0.55
1:E:888:LEU:HD13	1:E:901:VAL:HG11	1.89	0.55
1:B:880:SER:O	1:B:883:VAL:HG12	2.07	0.54
1:C:402:ILE:O	1:C:406:VAL:HG22	2.07	0.54
1:D:343:THR:HA	1:D:346:GLU:OE1	2.07	0.54
1:D:578:LEU:HD21	1:D:590:VAL:HG21	1.89	0.54
1:F:356:TYR:HA	1:F:365:THR:HG21	1.89	0.54
1:A:108:GLN:HE21	1:A:129:VAL:HB	1.72	0.54
1:A:817:GLU:HG3	1:A:824:SER:O	2.06	0.54
1:B:727:PHE:CZ	1:B:807:SER:HB2	2.42	0.54
1:C:279:ALA:HB3	1:C:286:ALA:O	2.08	0.54
1:C:419:VAL:CG2	1:C:434:SER:HB2	2.36	0.54
1:D:75:LEU:HA	1:D:94:PHE:HD2	1.72	0.54
1:E:143:ILE:HG22	1:E:286:ALA:CB	2.37	0.54
1:E:318:PRO:HG2	1:E:321:LEU:HB2	1.89	0.54
1:E:350:LEU:HD22	1:E:984:LEU:HD12	1.90	0.54
1:F:184:MET:HB2	1:F:762:PHE:CE2	2.43	0.54
1:F:573:MET:HG3	1:F:666:PHE:HE2	1.70	0.54
1:F:1038:GLU:HA	1:F:1039:ASP:CG	2.27	0.54
1:A:109:ASN:ND2	1:B:109:ASN:HD21	2.06	0.54
1:A:383:LEU:O	1:A:386:PHE:N	2.36	0.54
1:A:584:GLN:N	1:A:622:GLN:OE1	2.24	0.54
1:C:5:PHE:C	1:C:7:ASP:N	2.61	0.54
1:C:465:ALA:O	1:C:468:ARG:HB3	2.08	0.54
1:C:466:ILE:HD13	1:C:466:ILE:N	2.22	0.54
1:D:294:ALA:O	1:D:296:GLY:N	2.40	0.54
1:E:680:PHE:HB2	1:E:859:TRP:HZ3	1.72	0.54
1:E:907:LEU:HG	1:E:1017:LEU:HD22	1.89	0.54
1:F:534:ILE:HG22	1:F:541:TYR:CZ	2.42	0.54
1:F:757:SER:O	1:F:772:TYR:HA	2.06	0.54
1:F:919:ARG:HG3	1:F:919:ARG:NH1	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:534:ILE:HD11	1:A:1024:VAL:CG2	2.38	0.54
1:B:974:PRO:O	1:B:977:MET:N	2.39	0.54
1:C:671:ILE:HG21	1:C:674:LEU:HB2	1.89	0.54
1:D:267:LYS:HZ1	1:D:268:ILE:H	1.53	0.54
1:D:959:GLY:HA3	1:D:1040:ILE:HG21	1.89	0.54
1:E:743:ILE:HG23	1:E:746:ILE:HD11	1.88	0.54
1:F:443:VAL:HG12	1:F:891:LEU:HD21	1.89	0.54
1:B:437:GLN:HG3	1:B:438:ILE:HG23	1.89	0.54
1:B:878:ALA:O	1:B:882:ILE:HG13	2.07	0.54
1:B:919:ARG:NH2	1:B:990:VAL:O	2.40	0.54
1:C:435:MET:HA	1:C:438:ILE:HG12	1.88	0.54
1:D:81:ASN:O	1:D:88:VAL:HA	2.08	0.54
1:D:754:TRP:NE1	1:D:780:ARG:HB3	2.22	0.54
1:E:801:PHE:HD1	1:E:804:PHE:HE2	1.54	0.54
1:F:56:THR:O	1:F:60:THR:OG1	2.13	0.54
1:A:605:ASN:N	1:A:605:ASN:OD1	2.40	0.54
1:A:924:ASP:OD1	1:A:926:TYR:N	2.41	0.54
1:B:684:LEU:HD12	1:B:856:GLY:O	2.07	0.54
1:C:74:ASN:HB2	1:C:98:THR:CG2	2.37	0.54
1:C:509:LYS:HZ2	1:C:513:PHE:HB2	1.73	0.54
1:D:737:GLN:HE22	1:F:250:LEU:HD23	1.73	0.54
1:E:686:ASP:HB3	1:E:823:PRO:HB2	1.88	0.54
1:E:925:VAL:HA	1:E:928:GLN:HG2	1.90	0.54
1:E:957:GLY:HA2	1:E:1042:HIS:HB3	1.88	0.54
1:F:584:GLN:N	1:F:622:GLN:OE1	2.30	0.54
1:F:621:GLY:O	1:F:624:THR:OG1	2.24	0.54
1:F:909:VAL:HG13	1:F:931:LEU:HD11	1.89	0.54
1:A:170:SER:HB3	1:B:74:ASN:N	2.21	0.54
1:C:430:ALA:O	1:C:434:SER:HB3	2.08	0.54
1:C:926:TYR:HE1	1:C:999:ALA:HB1	1.71	0.54
1:F:121:GLU:HA	1:F:124:GLN:HG2	1.90	0.54
1:F:693:GLU:HB3	1:F:694:LYS:HE3	1.88	0.54
1:A:70:ASN:OD1	1:C:167:SER:OG	2.20	0.54
1:A:674:LEU:HD22	1:A:862:MET:HB3	1.90	0.54
1:A:1041:GLU:CG	1:A:1042:HIS:HA	2.37	0.54
1:B:908:GLY:HA2	1:B:1014:ALA:HB2	1.88	0.54
1:E:199:THR:HB	1:E:749:THR:HG21	1.90	0.54
1:A:281:PHE:CE2	1:A:324:VAL:HG21	2.42	0.54
1:B:185:ARG:HB3	1:B:187:TRP:HE1	1.73	0.54
1:C:49:TYR:CE2	1:C:119:PRO:HG2	2.43	0.54
1:C:97:GLY:C	1:C:99:ASP:H	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:860:THR:HA	1:C:864:TYR:HB2	1.90	0.54
1:D:364:ALA:HB2	1:D:497:LEU:HD13	1.89	0.54
1:E:690:LEU:HD22	1:E:694:LYS:HD2	1.90	0.54
1:A:308:ALA:O	1:A:312:LYS:HG3	2.08	0.54
1:A:354:VAL:HG22	1:A:980:LEU:HD23	1.90	0.54
1:A:834:GLY:C	1:A:835:LYS:HD2	2.28	0.54
1:A:900:SER:HA	1:A:1029:VAL:HG21	1.90	0.54
1:B:278:ILE:HD11	1:B:280:GLU:OE1	2.07	0.54
1:C:725:PRO:HG3	1:C:811:TYR:HE1	1.72	0.54
1:E:138:MET:O	1:E:291:ILE:N	2.39	0.54
1:E:445:ILE:HG21	1:E:940:LYS:HD2	1.89	0.54
1:E:597:TYR:HE2	1:E:651:ALA:HA	1.73	0.54
1:F:414:GLU:OE2	1:F:415:ASN:ND2	2.41	0.54
1:A:149:MET:SD	1:A:153:ASP:HB3	2.48	0.53
1:A:1030:ARG:O	1:A:1032:ARG:N	2.42	0.53
1:C:468:ARG:O	1:C:472:ILE:HG22	2.08	0.53
1:D:94:PHE:CE1	1:D:103:ALA:HB1	2.43	0.53
1:D:142:VAL:HG21	1:D:158:VAL:HG22	1.90	0.53
1:D:190:PRO:HB3	1:D:789:TRP:CH2	2.43	0.53
1:D:836:SER:HB3	1:D:839:GLU:HG3	1.90	0.53
1:E:790:TYR:HD1	1:E:800:PRO:HA	1.73	0.53
1:F:348:ILE:HD11	1:F:372:VAL:HG11	1.89	0.53
1:F:940:LYS:HZ3	1:F:978:THR:HG21	1.71	0.53
1:C:508:GLY:O	1:C:509:LYS:HB2	2.09	0.53
1:C:901:VAL:HG23	1:C:942:ALA:CB	2.29	0.53
1:D:746:ILE:O	1:D:749:THR:OG1	2.26	0.53
1:D:992:SER:O	1:D:997:SER:OG	2.24	0.53
1:E:62:THR:HG21	1:E:818:ARG:HD3	1.89	0.53
1:E:527:TYR:CE1	1:E:968:VAL:HG13	2.43	0.53
1:F:178:PHE:O	1:F:287:SER:OG	2.12	0.53
1:F:919:ARG:HH11	1:F:919:ARG:CG	2.20	0.53
1:A:214:VAL:HG23	1:A:236:ALA:HB1	1.90	0.53
1:A:530:SER:HB2	2:A:2000:LMT:H1'	1.91	0.53
1:A:685:ILE:HD11	1:A:819:TYR:HD2	1.73	0.53
1:A:1018:ALA:O	1:A:1022:VAL:HG23	2.08	0.53
1:C:4:PHE:CE2	1:C:436:GLY:HA3	2.43	0.53
1:C:68:ASN:HB3	1:C:114:ALA:HB2	1.90	0.53
1:C:291:ILE:HD13	1:C:306:ILE:HD12	1.91	0.53
1:C:762:PHE:HE1	1:C:764:ASP:HB2	1.73	0.53
1:F:922:THR:O	1:F:924:ASP:N	2.41	0.53
1:B:597:TYR:HE1	1:B:651:ALA:HA	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:193:LEU:HD12	1:D:789:TRP:HZ3	1.73	0.53
1:D:359:LEU:C	1:D:361:ASN:H	2.12	0.53
1:E:7:ASP:O	1:E:8:ARG:HG3	2.09	0.53
1:E:445:ILE:HD13	1:E:940:LYS:CE	2.38	0.53
1:E:457:ALA:HB2	1:E:471:SER:CB	2.39	0.53
1:F:565:PRO:O	1:F:670:ALA:HB2	2.07	0.53
1:F:674:LEU:HD22	1:F:861:GLY:HA2	1.91	0.53
1:B:682:PHE:CE2	1:B:857:TYR:HA	2.43	0.53
1:B:971:ARG:HB3	1:B:971:ARG:HH11	1.74	0.53
1:C:456:MET:HA	1:C:459:PHE:HD1	1.73	0.53
1:C:952:LEU:HB2	1:C:963:ALA:HB1	1.91	0.53
1:D:578:LEU:HD21	1:D:587:THR:HA	1.90	0.53
1:E:709:HIS:ND1	1:E:843:LEU:HD21	2.24	0.53
1:F:45:ILE:HD11	1:F:92:LEU:HD21	1.90	0.53
1:F:62:THR:HG22	1:F:88:VAL:HG21	1.91	0.53
1:F:566:ASP:OD1	1:F:678:THR:HG23	2.09	0.53
1:A:488:LEU:HG	1:A:492:LEU:HG	1.90	0.53
1:A:932:LEU:O	1:A:935:ILE:HB	2.09	0.53
1:B:189:ASN:ND2	1:B:190:PRO:HD2	2.24	0.53
1:B:597:TYR:CE1	1:B:651:ALA:HA	2.43	0.53
1:B:889:ALA:CB	1:B:898:PRO:HG3	2.38	0.53
1:B:953:MET:SD	1:B:1040:ILE:HD13	2.49	0.53
1:C:120:GLN:HA	1:C:123:GLN:HB2	1.89	0.53
1:C:836:SER:OG	1:C:837:THR:N	2.40	0.53
1:D:859:TRP:CE3	1:D:863:SER:HB3	2.42	0.53
1:D:886:LEU:HD11	1:F:17:ILE:HG22	1.90	0.53
1:D:901:VAL:HG21	1:D:943:ILE:HG12	1.91	0.53
1:A:109:ASN:HD22	1:B:109:ASN:HD21	1.57	0.53
1:A:214:VAL:HG23	1:A:236:ALA:CB	2.38	0.53
1:A:790:TYR:HE2	1:A:800:PRO:HB3	1.74	0.53
1:B:719:ASN:HB2	1:B:828:LEU:HG	1.91	0.53
1:B:818:ARG:NH2	1:B:821:GLY:O	2.42	0.53
1:C:48:SER:HA	1:C:86:GLY:O	2.09	0.53
1:C:330:THR:H	1:C:331:PRO:HD2	1.74	0.53
1:D:119:PRO:HB2	1:D:122:VAL:HG23	1.90	0.53
1:D:142:VAL:HG13	1:D:321:LEU:HD11	1.91	0.53
1:D:341:VAL:HG23	1:D:395:MET:HE1	1.91	0.53
1:D:456:MET:SD	1:D:877:TYR:OH	2.53	0.53
1:E:99:ASP:HB3	1:E:102:ILE:HB	1.91	0.53
1:E:573:MET:HB3	1:E:628:PHE:HA	1.91	0.53
1:F:944:LEU:HB3	1:F:971:ARG:HD3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:790:TYR:HB3	1:A:798:MET:HB3	1.90	0.53
1:B:69:MET:HG2	1:B:110:LYS:C	2.29	0.53
1:B:420:MET:SD	1:B:430:ALA:HB3	2.49	0.53
1:B:435:MET:O	1:B:439:GLN:HG3	2.09	0.53
1:B:584:GLN:HB2	1:B:622:GLN:HG2	1.90	0.53
1:B:1021:PHE:O	1:B:1025:PHE:N	2.38	0.53
1:C:5:PHE:O	1:C:7:ASP:N	2.42	0.53
1:C:424:GLY:HA3	1:C:502:LYS:N	2.24	0.53
1:C:467:TYR:HE1	1:C:872:GLN:HE22	1.57	0.53
1:E:744:ASN:N	1:E:744:ASN:OD1	2.40	0.53
1:F:17:ILE:HA	1:F:20:MET:HE2	1.90	0.53
1:F:911:GLY:HA3	1:F:1013:THR:OG1	2.08	0.53
1:A:199:THR:HG21	1:A:792:ARG:H	1.74	0.53
1:A:216:ALA:HB1	1:A:234:ILE:HG22	1.90	0.53
1:B:559:LEU:HD11	1:B:922:THR:HA	1.91	0.53
1:B:883:VAL:O	1:B:887:CYS:HB3	2.09	0.53
1:C:27:ILE:HA	1:C:30:LEU:HD22	1.91	0.53
1:C:455:PRO:HG2	1:C:880:SER:HB2	1.90	0.53
1:C:585:GLU:O	1:C:589:LYS:HG3	2.09	0.53
1:D:143:ILE:HG21	1:D:281:PHE:CD2	2.44	0.53
1:E:420:MET:CE	1:E:500:ILE:H	2.22	0.53
1:F:393:LEU:CD1	1:F:466:ILE:HA	2.39	0.53
1:F:647:ILE:HG22	1:F:648:THR:N	2.24	0.53
1:F:654:ALA:O	1:F:658:ILE:HG12	2.09	0.53
1:A:244:GLU:HG2	1:A:248:LYS:HE2	1.91	0.53
1:A:877:TYR:O	1:A:881:LEU:HB2	2.09	0.53
1:B:225:VAL:H	1:C:781:MET:HE1	1.74	0.53
1:B:1018:ALA:O	1:B:1022:VAL:HG23	2.09	0.53
1:C:57:VAL:HG23	1:C:82:SER:HB3	1.91	0.53
1:C:429:GLU:O	1:C:433:LYS:HG2	2.09	0.53
1:E:214:VAL:HG23	1:E:237:GLN:HB3	1.91	0.53
1:E:698:ALA:O	1:E:701:GLN:HG2	2.09	0.53
1:F:5:PHE:C	1:F:7:ASP:H	2.10	0.53
1:F:795:ASP:OD2	1:F:796:GLY:N	2.42	0.53
1:A:44:THR:HG22	1:A:91:THR:OG1	2.09	0.52
1:B:186:ILE:HD13	1:B:262:LEU:HD21	1.91	0.52
1:B:214:VAL:CG2	1:B:237:GLN:HB3	2.39	0.52
1:B:681:ASP:HA	1:B:828:LEU:HA	1.91	0.52
1:B:899:PHE:HD1	1:B:902:MET:HE1	1.73	0.52
1:C:138:MET:O	1:C:291:ILE:HG13	2.09	0.52
1:C:503:GLY:HA2	1:C:505:HIS:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:896:SER:HB2	1:C:1029:VAL:CG1	2.39	0.52
1:F:137:LEU:HD22	1:F:293:LEU:HD23	1.91	0.52
1:A:768:VAL:HG12	1:B:63:GLN:OE1	2.09	0.52
1:B:762:PHE:CE1	1:B:764:ASP:HB2	2.44	0.52
1:C:57:VAL:HA	1:C:61:VAL:HG23	1.91	0.52
1:C:81:ASN:OD1	1:C:815:ARG:NH1	2.41	0.52
1:C:966:ASP:O	1:C:970:MET:SD	2.68	0.52
1:C:1018:ALA:O	1:C:1022:VAL:HG23	2.08	0.52
1:D:549:VAL:O	1:D:552:MET:HB3	2.08	0.52
1:D:695:LEU:HD13	1:D:825:MET:SD	2.50	0.52
1:F:348:ILE:HG12	1:F:402:ILE:CD1	2.39	0.52
1:A:45:ILE:HG23	1:A:129:VAL:CG2	2.28	0.52
1:A:133:SER:OG	1:A:135:SER:O	2.22	0.52
1:A:281:PHE:CE1	1:A:608:SER:HB2	2.45	0.52
1:B:45:ILE:HD11	1:B:107:VAL:HG11	1.91	0.52
1:B:696:THR:O	1:B:700:ASN:ND2	2.41	0.52
1:C:6:ILE:HG22	1:C:12:ALA:HB2	1.91	0.52
1:C:35:TYR:HB3	1:C:36:PRO:HD2	1.92	0.52
1:C:65:ILE:HA	1:C:114:ALA:CB	2.38	0.52
1:D:24:GLY:O	1:D:28:LEU:HG	2.09	0.52
1:D:785:ASP:OD1	1:D:785:ASP:N	2.43	0.52
1:E:508:GLY:H	1:E:518:ARG:HE	1.57	0.52
1:F:340:VAL:HG11	1:F:395:MET:HB3	1.91	0.52
1:A:343:THR:OG1	1:A:989:LEU:HD21	2.09	0.52
1:A:359:LEU:O	1:A:361:ASN:N	2.42	0.52
1:B:152:GLU:HB3	1:B:182:TYR:HE1	1.74	0.52
1:B:180:SER:OG	1:B:274:ASN:O	2.22	0.52
1:B:618:ALA:O	1:B:815:ARG:NE	2.42	0.52
1:B:987:MET:HB3	1:B:988:PRO:HD3	1.92	0.52
1:D:112:GLN:HE21	1:E:112:GLN:HB3	1.74	0.52
1:D:801:PHE:HD1	1:D:805:SER:HB3	1.74	0.52
1:E:30:LEU:HB3	1:E:390:ILE:HD11	1.92	0.52
1:E:143:ILE:HD13	1:E:281:PHE:HD2	1.74	0.52
1:E:986:VAL:HG21	1:E:1007:VAL:HG11	1.91	0.52
1:F:383:LEU:HD23	1:F:472:ILE:HD12	1.92	0.52
1:A:515:TRP:O	1:A:519:MET:HG3	2.10	0.52
1:B:219:LEU:HA	1:C:754:TRP:HZ3	1.75	0.52
1:D:340:VAL:HG12	1:D:395:MET:HE3	1.92	0.52
1:E:552:MET:HB2	1:E:910:ILE:HG12	1.91	0.52
1:F:219:LEU:H	1:F:219:LEU:CD2	2.16	0.52
1:B:754:TRP:CD2	1:B:780:ARG:HB2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:281:PHE:HD2	1:C:610:PHE:CE1	2.28	0.52
1:D:13:TRP:HE1	1:D:492:LEU:HD21	1.74	0.52
1:D:293:LEU:HD13	1:D:294:ALA:N	2.24	0.52
1:E:158:VAL:HG11	1:E:177:LEU:HD13	1.92	0.52
1:E:274:ASN:OD1	1:E:275:TYR:N	2.42	0.52
1:E:456:MET:O	1:E:467:TYR:HB3	2.10	0.52
1:E:1015:THR:OG1	1:E:1016:VAL:N	2.43	0.52
1:F:188:MET:HE1	1:F:200:PRO:HG3	1.90	0.52
1:F:785:ASP:N	1:F:785:ASP:OD1	2.41	0.52
1:F:833:PRO:C	1:F:835:LYS:H	2.11	0.52
1:F:907:LEU:HD23	1:F:1017:LEU:HB3	1.91	0.52
1:A:344:LEU:HD23	1:A:402:ILE:HD11	1.90	0.52
1:A:422:GLU:HG3	1:A:423:GLU:HG3	1.91	0.52
1:A:520:PHE:HE2	1:A:973:ARG:HG3	1.75	0.52
1:A:960:LEU:HD11	1:A:1027:VAL:HA	1.92	0.52
1:A:961:ILE:HG13	1:A:1039:ASP:CG	2.30	0.52
1:B:235:ILE:HD11	1:C:726:GLN:OE1	2.09	0.52
1:C:136:PHE:HA	1:C:292:LYS:HA	1.92	0.52
1:C:146:ASP:CG	1:C:147:GLY:H	2.12	0.52
1:D:347:ALA:HA	1:D:350:LEU:HD12	1.91	0.52
1:E:787:GLY:O	1:E:789:TRP:N	2.43	0.52
1:F:15:ILE:HG21	1:F:487:ILE:HG21	1.92	0.52
1:F:240:LEU:HB2	1:F:246:PHE:HE1	1.72	0.52
1:F:597:TYR:CD1	1:F:601:LYS:HD2	2.45	0.52
1:F:870:GLY:O	1:F:872:GLN:N	2.42	0.52
1:F:901:VAL:O	1:F:904:VAL:HG23	2.09	0.52
1:A:109:ASN:HD22	1:B:109:ASN:ND2	2.07	0.52
1:B:34:GLN:C	1:B:35:TYR:HD1	2.13	0.52
1:B:158:VAL:HG13	1:B:289:LEU:HD11	1.91	0.52
1:C:73:ASP:O	1:C:98:THR:HG21	2.10	0.52
1:C:394:THR:HB	1:C:469:GLN:OE1	2.09	0.52
1:C:509:LYS:NZ	1:C:513:PHE:HB2	2.25	0.52
1:D:20:MET:HE3	1:D:377:LEU:HD22	1.92	0.52
1:D:193:LEU:CD1	1:D:200:PRO:HD3	2.39	0.52
1:D:544:LEU:HG	1:D:544:LEU:O	2.10	0.52
1:E:480:LEU:HA	1:E:483:LEU:HD12	1.91	0.52
1:E:986:VAL:HG11	1:E:1007:VAL:HG12	1.92	0.52
1:F:53:ASP:OD1	1:F:56:THR:OG1	2.16	0.52
1:F:190:PRO:HB3	1:F:789:TRP:CH2	2.45	0.52
1:A:214:VAL:HG11	1:B:747:ASN:ND2	2.25	0.52
1:B:76:MET:HE3	1:B:864:TYR:HE2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:448:VAL:HA	1:B:451:ALA:HB3	1.91	0.52
1:C:858:ASP:OD2	1:C:859:TRP:N	2.43	0.52
1:D:222:THR:HA	1:D:224:PRO:HD3	1.92	0.52
1:E:366:LEU:O	1:E:369:THR:HB	2.10	0.52
1:F:177:LEU:HD22	1:F:178:PHE:N	2.25	0.52
1:F:453:PHE:O	1:F:456:MET:HG2	2.10	0.52
1:A:68:ASN:C	1:A:70:ASN:H	2.13	0.52
1:B:36:PRO:O	1:B:38:ILE:HG13	2.10	0.52
1:B:108:GLN:OE1	1:C:112:GLN:HB3	2.10	0.52
1:C:163:LYS:HD2	1:C:289:LEU:CD2	2.39	0.52
1:D:32:VAL:HG22	1:D:390:ILE:HB	1.91	0.52
1:D:451:ALA:HB1	1:D:883:VAL:HG12	1.92	0.52
1:D:804:PHE:CD2	1:D:804:PHE:N	2.78	0.52
1:D:1011:MET:O	1:D:1015:THR:HG23	2.09	0.52
1:E:514:GLY:C	1:E:516:PHE:H	2.12	0.52
1:F:99:ASP:O	1:F:102:ILE:HG22	2.10	0.52
1:F:294:ALA:HB3	1:F:297:ALA:HB2	1.92	0.52
1:F:310:LEU:HD23	1:F:323:ILE:HD13	1.91	0.52
1:F:310:LEU:HD23	1:F:323:ILE:HG21	1.91	0.52
1:F:330:THR:H	1:F:331:PRO:HD2	1.75	0.52
1:F:420:MET:SD	1:F:500:ILE:HG23	2.49	0.52
1:F:563:PHE:HB2	1:F:866:GLU:HB2	1.91	0.52
1:F:1038:GLU:HA	1:F:1039:ASP:CB	2.40	0.52
1:A:388:PHE:HE1	1:A:472:ILE:HG12	1.75	0.51
1:A:468:ARG:HG3	1:A:472:ILE:HD13	1.91	0.51
1:A:507:GLU:CG	1:A:518:ARG:HG2	2.39	0.51
1:A:540:ARG:HB3	1:A:541:TYR:CD2	2.45	0.51
1:A:559:LEU:HD23	1:A:560:PRO:CD	2.40	0.51
1:A:990:VAL:HG21	1:A:1008:MET:SD	2.50	0.51
1:B:156:ASP:CG	1:B:765:ARG:HH22	2.13	0.51
1:B:407:ASP:CG	1:B:940:LYS:HE3	2.30	0.51
1:C:77:TYR:O	1:C:93:THR:HB	2.10	0.51
1:C:435:MET:HE1	1:C:439:GLN:HA	1.92	0.51
1:C:686:ASP:HB3	1:C:823:PRO:O	2.09	0.51
1:C:738:ALA:O	1:C:740:GLY:N	2.43	0.51
1:C:940:LYS:O	1:C:943:ILE:HB	2.10	0.51
1:D:340:VAL:HG11	1:D:395:MET:HB3	1.92	0.51
1:D:597:TYR:HE2	1:D:651:ALA:HA	1.76	0.51
1:E:434:SER:O	1:E:437:GLN:N	2.40	0.51
1:E:790:TYR:CD1	1:E:800:PRO:HA	2.44	0.51
1:E:949:ALA:HB3	1:E:1026:PHE:CE1	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:77:TYR:CD2	1:F:819:TYR:OH	2.62	0.51
1:A:1039:ASP:N	1:A:1040:ILE:HA	2.25	0.51
1:B:38:ILE:CG2	1:B:462:SER:HB3	2.40	0.51
1:C:185:ARG:HD2	1:C:187:TRP:NE1	2.12	0.51
1:D:157:TYR:HE2	1:D:161:ASN:CG	2.12	0.51
1:D:583:THR:HA	1:D:622:GLN:OE1	2.10	0.51
1:D:897:ILE:HG12	1:D:1030:ARG:HD3	1.92	0.51
1:D:980:LEU:O	1:D:984:LEU:HB2	2.11	0.51
1:E:459:PHE:CE2	1:E:876:LEU:HD12	2.45	0.51
1:E:605:ASN:ND2	1:E:647:ILE:HD11	2.25	0.51
1:F:41:PRO:O	1:F:94:PHE:HB2	2.10	0.51
1:F:356:TYR:C	1:F:358:PHE:H	2.12	0.51
1:F:401:ALA:HA	1:F:404:LEU:HD22	1.91	0.51
1:F:459:PHE:HE2	1:F:876:LEU:HA	1.76	0.51
1:A:375:VAL:HG23	1:A:480:LEU:HB3	1.92	0.51
1:B:899:PHE:HA	1:B:902:MET:HE3	1.93	0.51
1:C:358:PHE:CD1	1:C:977:MET:HG2	2.45	0.51
1:C:591:LEU:HD13	1:C:611:ALA:HB1	1.92	0.51
1:D:545:TYR:HA	1:D:548:ILE:HD12	1.91	0.51
1:D:602:GLU:HB3	1:D:606:VAL:HG23	1.93	0.51
1:D:712:MET:O	1:D:832:ALA:N	2.43	0.51
1:E:219:LEU:HD23	1:F:754:TRP:CZ3	2.45	0.51
1:E:527:TYR:OH	1:E:1019:ILE:O	2.21	0.51
1:E:885:PHE:CE1	1:E:899:PHE:CE1	2.99	0.51
1:E:909:VAL:O	1:E:911:GLY:N	2.43	0.51
1:F:77:TYR:CE1	1:F:93:THR:HB	2.46	0.51
1:F:873:ALA:HB2	1:F:928:GLN:HE21	1.73	0.51
1:A:4:PHE:O	1:A:8:ARG:HD2	2.10	0.51
1:A:281:PHE:HB2	1:A:610:PHE:CE1	2.44	0.51
1:B:368:PRO:O	1:B:371:ALA:HB3	2.10	0.51
1:B:448:VAL:O	1:B:451:ALA:HB3	2.10	0.51
1:B:925:VAL:O	1:B:928:GLN:N	2.44	0.51
1:B:1016:VAL:O	1:B:1017:LEU:HD12	2.11	0.51
1:C:412:VAL:HG11	1:C:485:ALA:O	2.10	0.51
1:C:540:ARG:HD3	1:C:541:TYR:HE1	1.76	0.51
1:C:702:LEU:HB2	1:C:851:LEU:HD11	1.91	0.51
1:C:909:VAL:O	1:C:912:ALA:N	2.44	0.51
1:D:713:LEU:HD21	1:D:843:LEU:HD12	1.91	0.51
1:E:594:VAL:O	1:E:597:TYR:N	2.44	0.51
1:E:645:GLU:O	1:E:648:THR:OG1	2.25	0.51
1:F:163:LYS:O	1:F:163:LYS:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:417:GLU:OE2	1:F:500:ILE:HG21	2.11	0.51
1:A:117:LEU:HD11	1:C:125:GLN:OE1	2.10	0.51
1:A:182:TYR:HB2	1:A:769:LYS:HZ2	1.74	0.51
1:A:559:LEU:HD23	1:A:560:PRO:HD2	1.92	0.51
1:B:524:THR:O	1:B:528:THR:N	2.39	0.51
1:B:919:ARG:HB3	1:B:921:LEU:HD23	1.92	0.51
1:C:189:ASN:HB3	1:C:192:GLU:HB2	1.91	0.51
1:C:563:PHE:HB2	1:C:866:GLU:CG	2.40	0.51
1:D:246:PHE:O	1:D:262:LEU:HD23	2.10	0.51
1:E:465:ALA:HA	1:E:468:ARG:NH1	2.25	0.51
1:E:722:GLU:HG3	1:E:723:ASP:H	1.76	0.51
1:F:240:LEU:HD11	1:F:249:ILE:HD11	1.92	0.51
1:A:35:TYR:HA	1:A:391:ASN:ND2	2.25	0.51
1:A:38:ILE:HG22	1:A:462:SER:OG	2.09	0.51
1:A:117:LEU:HD11	1:C:125:GLN:HE22	1.76	0.51
1:A:157:TYR:HE1	1:A:318:PRO:HD2	1.75	0.51
1:A:178:PHE:HB2	1:A:288:GLY:H	1.76	0.51
1:A:195:LYS:HB3	1:A:196:PHE:CD2	2.46	0.51
1:B:253:VAL:HG13	1:B:259:ARG:HB3	1.91	0.51
1:B:402:ILE:O	1:B:406:VAL:HG22	2.11	0.51
1:D:573:MET:HG3	1:D:666:PHE:HE1	1.74	0.51
1:D:737:GLN:NE2	1:F:250:LEU:HD23	2.24	0.51
1:D:760:ASN:H	1:D:771:VAL:HB	1.75	0.51
1:D:858:ASP:OD2	1:D:859:TRP:N	2.42	0.51
1:E:717:ARG:O	1:E:717:ARG:HD3	2.11	0.51
1:F:182:TYR:HB2	1:F:769:LYS:NZ	2.25	0.51
1:F:249:ILE:HB	1:F:262:LEU:HB2	1.93	0.51
1:F:393:LEU:CD1	1:F:466:ILE:HG12	2.40	0.51
1:F:452:VAL:HG12	1:F:884:VAL:CG2	2.41	0.51
1:F:1033:PHE:C	1:F:1035:ARG:N	2.64	0.51
1:A:43:VAL:O	1:A:91:THR:HA	2.11	0.51
1:A:240:LEU:HD12	1:A:246:PHE:CE2	2.46	0.51
1:A:372:VAL:HA	1:A:375:VAL:HG12	1.93	0.51
1:A:507:GLU:HG3	1:A:518:ARG:HG2	1.92	0.51
1:A:990:VAL:HG13	1:A:1005:THR:OG1	2.10	0.51
1:B:986:VAL:HG21	1:B:1007:VAL:CG1	2.37	0.51
1:C:108:GLN:HG3	1:C:112:GLN:HE22	1.76	0.51
1:C:138:MET:HG3	1:C:327:TYR:O	2.11	0.51
1:C:607:GLU:HB2	1:C:632:LYS:HG3	1.93	0.51
1:C:864:TYR:HE1	1:C:867:ARG:NH2	2.09	0.51
1:D:210:GLN:HE22	1:D:250:LEU:HB3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:375:VAL:HG11	1:D:405:LEU:HD21	1.92	0.51
1:E:66:GLU:OE1	1:E:821:GLY:HA2	2.11	0.51
1:E:634:TRP:CD1	1:E:634:TRP:N	2.76	0.51
1:F:940:LYS:CE	1:F:978:THR:HG21	2.41	0.51
1:A:388:PHE:CE1	1:A:472:ILE:HG21	2.46	0.51
1:B:164:ASP:O	1:B:168:ARG:HG3	2.11	0.51
1:B:393:LEU:HD12	1:B:466:ILE:HG23	1.92	0.51
1:B:573:MET:SD	1:B:628:PHE:HE2	2.34	0.51
1:D:281:PHE:CE2	1:D:324:VAL:HG21	2.46	0.51
1:E:13:TRP:HA	1:E:13:TRP:CE3	2.46	0.51
1:E:167:SER:OG	1:F:70:ASN:ND2	2.44	0.51
1:E:190:PRO:HG3	1:E:779:TYR:HB3	1.93	0.51
1:F:5:PHE:CE1	1:F:8:ARG:HD2	2.45	0.51
1:F:573:MET:HG3	1:F:666:PHE:CE2	2.46	0.51
1:A:1031:ARG:C	1:A:1032:ARG:HD2	2.31	0.51
1:B:648:THR:O	1:B:652:THR:HG22	2.11	0.51
1:B:1021:PHE:HB3	1:B:1025:PHE:CE1	2.46	0.51
1:C:95:GLU:O	1:C:98:THR:OG1	2.06	0.51
1:C:181:GLN:HG2	1:C:182:TYR:N	2.24	0.51
1:C:184:MET:HB2	1:C:762:PHE:CE2	2.45	0.51
1:C:404:LEU:HG	1:C:449:LEU:HD13	1.91	0.51
1:C:452:VAL:HG12	1:C:884:VAL:CG2	2.28	0.51
1:C:896:SER:HB2	1:C:1029:VAL:HG12	1.92	0.51
1:D:465:ALA:O	1:D:469:GLN:HG2	2.11	0.51
1:D:470:PHE:CE2	1:D:929:VAL:HG11	2.46	0.51
1:D:555:LEU:HD11	1:D:914:LEU:HD12	1.91	0.51
1:D:702:LEU:CD2	1:D:848:ALA:HB2	2.40	0.51
1:D:753:ALA:O	1:D:774:MET:HG2	2.11	0.51
1:F:1027:VAL:HG13	1:F:1028:VAL:N	2.25	0.51
1:A:658:ILE:O	1:A:659:LYS:NZ	2.33	0.51
1:B:682:PHE:HB3	1:B:827:ILE:HB	1.93	0.51
1:C:125:GLN:OE1	1:C:125:GLN:HA	2.10	0.51
1:C:154:ILE:O	1:C:157:TYR:N	2.43	0.51
1:C:214:VAL:HG23	1:C:237:GLN:HB2	1.93	0.51
1:C:416:VAL:HG23	1:C:438:ILE:HD11	1.92	0.51
1:C:895:TRP:O	1:C:898:PRO:HD2	2.10	0.51
1:C:931:LEU:O	1:C:935:ILE:HG22	2.11	0.51
1:E:1037:ASN:HB3	1:E:1040:ILE:HG13	1.93	0.51
1:F:382:VAL:HG11	1:F:476:SER:CB	2.41	0.51
1:F:545:TYR:HB2	1:F:1021:PHE:HE2	1.75	0.51
1:F:843:LEU:O	1:F:843:LEU:HD22	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:239:ARG:HD2	1:B:763:ILE:CD1	2.41	0.50
1:C:586:ARG:HA	1:C:589:LYS:HE2	1.92	0.50
1:C:698:ALA:HB2	1:C:852:PRO:HG2	1.92	0.50
1:C:900:SER:HB3	1:C:1029:VAL:HG11	1.92	0.50
1:C:902:MET:O	1:C:905:VAL:HG22	2.10	0.50
1:D:108:GLN:NE2	1:E:109:ASN:O	2.41	0.50
1:D:143:ILE:HG22	1:D:286:ALA:HB2	1.92	0.50
1:D:404:LEU:HD23	1:D:449:LEU:HD11	1.92	0.50
1:E:736:ALA:HB1	1:E:741:VAL:CG2	2.41	0.50
1:F:493:CYS:O	1:F:497:LEU:HB3	2.11	0.50
1:A:838:GLY:HA2	1:A:841:MET:HB2	1.93	0.50
1:A:909:VAL:HG12	1:A:913:LEU:HG	1.94	0.50
1:A:986:VAL:HG21	1:A:1007:VAL:CG1	2.41	0.50
1:B:199:THR:O	1:B:203:VAL:HG23	2.11	0.50
1:C:5:PHE:CD1	1:C:6:ILE:HG12	2.47	0.50
1:C:393:LEU:HD22	1:C:393:LEU:N	2.26	0.50
1:D:249:ILE:O	1:D:262:LEU:N	2.43	0.50
1:E:144:ASN:ND2	1:E:319:SER:O	2.40	0.50
1:E:492:LEU:O	1:E:496:MET:HG2	2.09	0.50
1:F:404:LEU:HG	1:F:449:LEU:HD13	1.92	0.50
1:F:720:GLY:HA2	1:F:815:ARG:HH21	1.75	0.50
1:A:559:LEU:HD22	1:A:923:ASN:H	1.77	0.50
1:B:14:VAL:HG22	1:C:886:LEU:HD12	1.93	0.50
1:C:423:GLU:OE2	1:C:430:ALA:HA	2.12	0.50
1:C:575:MET:HA	1:C:626:ILE:HG13	1.93	0.50
1:C:621:GLY:O	1:C:624:THR:HG23	2.12	0.50
1:D:641:GLU:HB2	1:D:650:ARG:HH22	1.76	0.50
1:D:1020:PHE:CE1	2:D:2000:LMT:H31	2.46	0.50
1:E:990:VAL:HG13	1:E:1005:THR:OG1	2.11	0.50
1:F:75:LEU:HA	1:F:94:PHE:CD1	2.42	0.50
1:F:434:SER:O	1:F:438:ILE:HG12	2.10	0.50
1:F:817:GLU:OE2	1:F:825:MET:HA	2.12	0.50
1:A:166:ILE:CD1	1:A:309:GLU:HG2	2.42	0.50
1:A:680:PHE:HA	1:A:863:SER:OG	2.10	0.50
1:A:735:LYS:O	1:A:739:LEU:HB2	2.11	0.50
1:B:1037:ASN:CA	1:B:1038:GLU:HB2	2.41	0.50
1:C:104:GLN:HE21	1:C:131:LYS:HG3	1.74	0.50
1:C:1027:VAL:HG13	1:C:1028:VAL:HG23	1.93	0.50
1:D:959:GLY:H	1:D:962:GLU:HB3	1.76	0.50
1:E:4:PHE:CD1	1:E:4:PHE:C	2.85	0.50
1:F:959:GLY:HA2	1:F:1041:GLU:H	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:979:SER:HB2	1:F:1011:MET:HE3	1.93	0.50
1:A:112:GLN:NE2	1:B:112:GLN:HB3	2.26	0.50
1:A:239:ARG:NH2	1:B:60:THR:HG23	2.26	0.50
1:A:872:GLN:O	1:A:875:SER:N	2.44	0.50
1:B:76:MET:CE	1:B:864:TYR:HE2	2.24	0.50
1:B:78:MET:O	1:B:819:TYR:HA	2.12	0.50
1:B:149:MET:CE	1:B:153:ASP:HB3	2.40	0.50
1:B:509:LYS:O	1:B:510:LYS:HG2	2.11	0.50
1:C:185:ARG:CD	1:C:187:TRP:HE1	2.16	0.50
1:C:582:ALA:HB1	1:C:586:ARG:HE	1.75	0.50
1:C:897:ILE:HB	1:C:898:PRO:HD3	1.94	0.50
1:F:414:GLU:HG2	1:F:973:ARG:HE	1.77	0.50
1:F:658:ILE:HG13	1:F:659:LYS:NZ	2.27	0.50
1:A:138:MET:HB2	1:A:328:ASP:OD1	2.11	0.50
1:A:186:ILE:HD13	1:A:262:LEU:HD21	1.93	0.50
1:A:193:LEU:HD22	1:A:265:VAL:HB	1.92	0.50
1:A:239:ARG:HH22	1:B:60:THR:HG23	1.76	0.50
1:A:924:ASP:O	1:A:928:GLN:HB2	2.12	0.50
1:C:367:ILE:HD12	1:C:488:LEU:HD21	1.92	0.50
1:E:143:ILE:HD13	1:E:281:PHE:CD2	2.47	0.50
1:E:277:ILE:HD12	1:E:277:ILE:O	2.12	0.50
1:A:113:LEU:HG	1:C:127:VAL:O	2.11	0.50
1:A:545:TYR:O	1:A:548:ILE:N	2.44	0.50
1:B:76:MET:HE3	1:B:864:TYR:CE2	2.47	0.50
1:B:730:ASP:OD1	1:B:808:ARG:NH2	2.45	0.50
1:B:800:PRO:HG2	1:B:803:ALA:HB2	1.94	0.50
1:C:456:MET:HB3	1:C:876:LEU:CD2	2.42	0.50
1:C:493:CYS:HA	1:C:497:LEU:HB2	1.93	0.50
1:E:169:THR:HG22	1:E:172:VAL:HG23	1.93	0.50
1:E:278:ILE:HD11	1:E:280:GLU:OE1	2.12	0.50
1:F:217:GLY:O	1:F:234:ILE:HB	2.11	0.50
1:F:393:LEU:HD13	1:F:466:ILE:HA	1.93	0.50
1:F:450:SER:HA	1:F:475:VAL:HG22	1.94	0.50
1:F:583:THR:H	1:F:586:ARG:HG3	1.77	0.50
1:A:143:ILE:O	1:A:321:LEU:HD22	2.11	0.50
1:A:208:LYS:HG3	1:A:759:VAL:HG13	1.93	0.50
1:A:351:VAL:HG22	1:A:981:ALA:HB1	1.93	0.50
1:B:415:ASN:O	1:B:419:VAL:HG22	2.12	0.50
1:B:442:LEU:HD13	1:B:485:ALA:HB1	1.92	0.50
1:B:446:ALA:HB2	1:B:482:VAL:HG11	1.93	0.50
1:B:578:LEU:CD1	1:B:586:ARG:HB2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:200:PRO:HA	1:C:203:VAL:HG23	1.94	0.50
1:C:668:LEU:HB2	1:C:669:PRO:HD2	1.94	0.50
1:D:141:GLY:O	1:D:323:ILE:HG23	2.12	0.50
1:D:144:ASN:ND2	1:D:148:THR:OG1	2.44	0.50
1:D:187:TRP:HB2	1:D:267:LYS:HB2	1.94	0.50
1:D:267:LYS:HZ2	1:D:268:ILE:H	1.57	0.50
1:F:26:ALA:HB1	1:F:384:ALA:CB	2.42	0.50
1:F:407:ASP:OD1	1:F:978:THR:HG23	2.12	0.50
1:F:787:GLY:C	1:F:789:TRP:H	2.15	0.50
1:F:790:TYR:HB3	1:F:798:MET:HB3	1.93	0.50
1:A:641:GLU:HB2	1:A:650:ARG:HH22	1.77	0.50
1:A:986:VAL:O	1:A:990:VAL:HG23	2.12	0.50
1:A:1024:VAL:O	1:A:1028:VAL:HB	2.12	0.50
1:B:137:LEU:HD12	1:B:329:THR:HG22	1.94	0.50
1:B:187:TRP:HB3	1:B:776:GLU:CG	2.42	0.50
1:B:905:VAL:HG13	1:B:935:ILE:HD12	1.92	0.50
1:B:953:MET:O	1:B:957:GLY:HA2	2.12	0.50
1:C:277:ILE:HG12	1:C:614:GLY:HA3	1.92	0.50
1:C:602:GLU:OE1	1:C:650:ARG:NE	2.31	0.50
1:C:787:GLY:C	1:C:789:TRP:H	2.13	0.50
1:D:1015:THR:OG1	1:D:1016:VAL:N	2.45	0.50
1:E:43:VAL:HG22	1:E:131:LYS:HA	1.94	0.50
1:E:433:LYS:O	1:E:437:GLN:HG3	2.12	0.50
1:E:909:VAL:HG22	1:E:931:LEU:HD21	1.94	0.50
1:F:444:GLY:HA3	1:F:892:TYR:OH	2.12	0.50
1:F:535:LEU:HD21	1:F:1027:VAL:HG21	1.94	0.50
1:A:155:SER:CB	1:A:180:SER:H	2.25	0.49
1:A:414:GLU:CD	1:A:974:PRO:HG3	2.33	0.49
1:A:466:ILE:HD12	1:A:925:VAL:HG21	1.94	0.49
1:A:949:ALA:HB3	1:A:1026:PHE:CE1	2.40	0.49
1:C:3:ASN:O	1:C:7:ASP:N	2.45	0.49
1:C:962:GLU:O	1:C:966:ASP:HB2	2.12	0.49
1:D:75:LEU:HA	1:D:94:PHE:CD2	2.47	0.49
1:D:536:ARG:HD3	2:D:2000:LMT:H4B	1.92	0.49
1:E:175:VAL:HG22	1:F:70:ASN:HD21	1.73	0.49
1:E:476:SER:O	1:E:480:LEU:HB2	2.11	0.49
1:E:729:ILE:HG22	1:E:731:ILE:HD12	1.93	0.49
1:A:5:PHE:CD1	1:A:487:ILE:HG12	2.47	0.49
1:A:47:ALA:O	1:A:87:THR:HA	2.12	0.49
1:B:64:VAL:HG11	1:B:117:LEU:HB3	1.94	0.49
1:B:198:LEU:HD21	1:B:252:LYS:HE3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:235:ILE:HD11	1:E:726:GLN:HB2	1.93	0.49
1:D:472:ILE:O	1:D:476:SER:HB3	2.13	0.49
1:D:515:TRP:O	1:D:519:MET:HG3	2.12	0.49
1:E:489:THR:HG22	1:E:490:PRO:HD3	1.93	0.49
1:F:151:GLN:HG2	1:F:278:ILE:HG13	1.93	0.49
1:F:459:PHE:CE2	1:F:876:LEU:HA	2.47	0.49
1:F:560:PRO:HG2	1:F:922:THR:HG22	1.93	0.49
1:F:905:VAL:HG22	1:F:935:ILE:HD12	1.92	0.49
1:A:60:THR:HG23	1:A:61:VAL:HG23	1.94	0.49
1:B:11:PHE:CE1	1:C:891:LEU:HG	2.47	0.49
1:B:573:MET:HG3	1:B:666:PHE:CE2	2.47	0.49
1:B:727:PHE:CE2	1:B:729:ILE:HD11	2.46	0.49
1:B:780:ARG:HD2	1:B:780:ARG:O	2.12	0.49
1:B:951:ASP:OD1	1:B:955:LYS:NZ	2.30	0.49
1:C:393:LEU:HG	1:C:466:ILE:CD1	2.42	0.49
1:D:41:PRO:O	1:D:94:PHE:HB2	2.12	0.49
1:D:450:SER:O	1:D:454:VAL:HG23	2.12	0.49
1:D:909:VAL:HG12	1:D:913:LEU:HG	1.94	0.49
1:E:13:TRP:HA	1:E:13:TRP:HE3	1.76	0.49
1:E:52:ALA:HB1	1:E:56:THR:HB	1.93	0.49
1:E:189:ASN:OD1	1:E:190:PRO:HD2	2.12	0.49
1:F:74:ASN:HB3	1:F:95:GLU:HB2	1.94	0.49
1:F:785:ASP:O	1:F:789:TRP:HD1	1.94	0.49
1:B:139:VAL:HA	1:B:289:LEU:O	2.12	0.49
1:B:157:TYR:CZ	1:B:318:PRO:HD3	2.48	0.49
1:B:923:ASN:HD22	1:B:923:ASN:C	2.14	0.49
1:C:65:ILE:HG12	1:C:118:LEU:HD11	1.95	0.49
1:C:382:VAL:HG12	1:C:472:ILE:HD11	1.94	0.49
1:D:175:VAL:HG11	1:D:289:LEU:HD22	1.93	0.49
1:E:225:VAL:CG1	1:F:777:ALA:HB1	2.43	0.49
1:E:352:PHE:C	1:E:352:PHE:CD2	2.86	0.49
1:E:576:VAL:HG13	1:E:663:VAL:HG22	1.94	0.49
1:B:53:ASP:OD1	1:B:56:THR:OG1	2.31	0.49
1:B:66:GLU:OE1	1:B:818:ARG:NE	2.45	0.49
1:B:398:MET:HG2	1:B:473:THR:HG21	1.95	0.49
1:B:688:ALA:O	1:B:690:LEU:N	2.43	0.49
1:B:987:MET:O	1:B:990:VAL:N	2.44	0.49
1:C:226:LYS:H	1:C:226:LYS:CD	2.23	0.49
1:C:726:GLN:NE2	1:C:812:GLY:HA3	2.26	0.49
1:D:722:GLU:O	1:D:814:PRO:HD2	2.12	0.49
1:F:61:VAL:HA	1:F:118:LEU:HD22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:293:LEU:HD13	1:F:294:ALA:N	2.27	0.49
1:F:759:VAL:HG23	1:F:771:VAL:HG13	1.94	0.49
1:F:821:GLY:O	1:F:822:LEU:HD23	2.11	0.49
1:A:401:ALA:O	1:A:404:LEU:HD12	2.13	0.49
1:B:295:THR:OG1	1:C:73:ASP:OD1	2.18	0.49
1:B:845:GLU:O	1:B:849:SER:HB2	2.12	0.49
1:C:383:LEU:HD22	1:C:388:PHE:HD1	1.77	0.49
1:D:53:ASP:OD1	1:D:53:ASP:N	2.38	0.49
1:D:376:LEU:O	1:D:379:THR:N	2.44	0.49
1:E:459:PHE:O	1:E:464:GLY:HA3	2.12	0.49
1:E:753:ALA:O	1:E:775:SER:OG	2.15	0.49
1:F:190:PRO:HB3	1:F:789:TRP:CZ3	2.48	0.49
1:A:163:LYS:O	1:A:163:LYS:HG2	2.13	0.49
1:A:415:ASN:HD22	1:A:434:SER:HB2	1.78	0.49
1:A:534:ILE:HD11	1:A:1024:VAL:HG21	1.93	0.49
1:A:941:ASN:ND2	1:A:975:ILE:HG23	2.28	0.49
1:B:982:PHE:HE2	1:B:1007:VAL:HG13	1.75	0.49
1:C:346:GLU:C	1:C:350:LEU:HD22	2.32	0.49
1:C:457:ALA:HB2	1:C:471:SER:OG	2.12	0.49
1:C:964:THR:O	1:C:968:VAL:HG23	2.12	0.49
1:D:24:GLY:HA2	1:D:27:ILE:HD12	1.95	0.49
1:D:413:VAL:HG23	1:D:493:CYS:SG	2.53	0.49
1:D:909:VAL:HG22	1:D:931:LEU:CD1	2.42	0.49
1:E:445:ILE:HG13	1:E:446:ALA:N	2.28	0.49
1:A:105:VAL:HG22	1:B:106:GLN:HA	1.94	0.49
1:A:145:THR:N	1:A:320:GLY:O	2.41	0.49
1:A:184:MET:HB2	1:A:762:PHE:CE2	2.47	0.49
1:A:335:ILE:O	1:A:339:GLU:HG2	2.13	0.49
1:A:568:ASP:CG	1:A:637:ARG:HH22	2.16	0.49
1:B:197:GLN:O	1:B:792:ARG:HD3	2.12	0.49
1:B:246:PHE:O	1:B:249:ILE:HG12	2.13	0.49
1:B:484:VAL:O	1:B:489:THR:N	2.41	0.49
1:B:573:MET:HG3	1:B:666:PHE:HE2	1.77	0.49
1:B:743:ILE:HA	1:B:746:ILE:HG13	1.95	0.49
1:C:154:ILE:HG22	1:C:287:SER:HB3	1.93	0.49
1:C:497:LEU:HG	1:C:498:LYS:O	2.13	0.49
1:D:293:LEU:HD22	1:D:294:ALA:H	1.78	0.49
1:D:343:THR:HG21	1:D:989:LEU:HD21	1.95	0.49
1:D:360:GLN:HG2	1:D:513:PHE:CD2	2.47	0.49
1:E:83:ASP:HB2	1:E:87:THR:OG1	2.13	0.49
1:F:150:THR:O	1:F:153:ASP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:465:ALA:O	1:F:469:GLN:HG2	2.12	0.49
1:F:971:ARG:CZ	1:F:971:ARG:HB3	2.28	0.49
1:A:27:ILE:HD11	1:A:380:PHE:CD1	2.48	0.49
1:A:196:PHE:CD2	1:A:196:PHE:N	2.81	0.49
1:B:78:MET:HE3	1:B:820:ASN:C	2.33	0.49
1:B:294:ALA:HB3	1:B:297:ALA:CB	2.43	0.49
1:B:690:LEU:HD22	1:B:694:LYS:HD2	1.95	0.49
1:C:582:ALA:HB2	1:C:586:ARG:HH21	1.77	0.49
1:E:40:PRO:HG3	1:E:865:GLN:OE1	2.13	0.49
1:E:217:GLY:O	1:E:234:ILE:HB	2.13	0.49
1:F:68:ASN:O	1:F:110:LYS:HB3	2.13	0.49
1:F:961:ILE:HG22	1:F:965:LEU:HD12	1.95	0.49
1:A:99:ASP:OD1	1:A:102:ILE:HB	2.13	0.49
1:A:115:MET:SD	1:A:118:LEU:HD12	2.53	0.49
1:A:336:SER:O	1:A:339:GLU:HB2	2.12	0.49
1:B:53:ASP:OD1	1:B:53:ASP:N	2.41	0.49
1:B:201:VAL:O	1:B:205:THR:OG1	2.26	0.49
1:B:415:ASN:OD1	1:B:418:ARG:NH2	2.46	0.49
1:B:714:THR:HB	1:B:831:ALA:C	2.34	0.49
1:B:779:TYR:O	1:B:789:TRP:NE1	2.42	0.49
1:B:792:ARG:HG2	1:B:792:ARG:HH11	1.78	0.49
1:C:428:LYS:O	1:C:432:ARG:HB2	2.13	0.49
1:C:878:ALA:O	1:C:882:ILE:HG12	2.13	0.49
1:D:597:TYR:CE1	1:D:601:LYS:HB2	2.48	0.49
1:D:742:SER:O	1:D:745:ASP:HB2	2.13	0.49
1:E:43:VAL:HG21	1:E:104:GLN:HG3	1.94	0.49
1:F:65:ILE:HD11	1:F:90:ILE:CD1	2.37	0.49
1:F:525:HIS:CD2	1:F:529:ASP:OD2	2.64	0.49
1:A:711:ASP:O	1:A:712:MET:HG3	2.12	0.48
1:B:525:HIS:CD2	1:B:529:ASP:OD2	2.65	0.48
1:B:919:ARG:HB3	1:B:921:LEU:CD2	2.43	0.48
1:C:979:SER:HB2	1:C:1015:THR:HG21	1.94	0.48
1:D:709:HIS:HB2	1:D:713:LEU:CD2	2.43	0.48
1:D:953:MET:HE1	1:D:960:LEU:HD12	1.95	0.48
1:E:536:ARG:NH2	2:E:2000:LMT:H4B	2.28	0.48
1:E:679:GLY:HA2	1:E:830:GLN:HA	1.93	0.48
1:E:801:PHE:O	1:E:805:SER:HB3	2.13	0.48
1:F:214:VAL:HG23	1:F:237:GLN:HB2	1.96	0.48
1:F:235:ILE:HG22	1:F:236:ALA:N	2.28	0.48
1:F:455:PRO:HB3	1:F:879:ILE:CG2	2.39	0.48
1:F:964:THR:O	1:F:968:VAL:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:189:ASN:OD1	1:A:190:PRO:HD2	2.14	0.48
1:A:414:GLU:CG	1:A:974:PRO:HG3	2.42	0.48
1:A:504:ASP:O	1:A:506:GLY:N	2.46	0.48
1:A:764:ASP:OD2	1:A:769:LYS:HE3	2.13	0.48
1:B:393:LEU:O	1:B:396:PHE:HB2	2.13	0.48
1:B:416:VAL:HA	1:B:419:VAL:HG22	1.95	0.48
1:B:819:TYR:OH	1:B:859:TRP:O	2.20	0.48
1:C:66:GLU:HB3	1:C:78:MET:HE1	1.95	0.48
1:C:71:GLY:O	1:C:106:GLN:NE2	2.36	0.48
1:C:483:LEU:HD23	1:C:486:LEU:HD11	1.95	0.48
1:C:669:PRO:HG3	1:C:862:MET:HG3	1.94	0.48
1:C:968:VAL:CA	1:C:971:ARG:HH12	2.27	0.48
1:C:971:ARG:NE	1:C:971:ARG:O	2.46	0.48
1:C:1041:GLU:O	1:C:1042:HIS:HB2	2.12	0.48
1:D:193:LEU:HD13	1:D:200:PRO:HD3	1.94	0.48
1:E:13:TRP:CH2	1:E:492:LEU:HD21	2.48	0.48
1:E:345:VAL:O	1:E:348:ILE:HG22	2.12	0.48
1:E:678:THR:HA	1:E:837:THR:OG1	2.12	0.48
1:F:314:GLU:HG2	1:F:315:PRO:HD3	1.94	0.48
1:F:948:PHE:HE2	1:F:971:ARG:HG3	1.71	0.48
1:A:583:THR:H	1:A:586:ARG:HG3	1.78	0.48
1:A:762:PHE:CE1	1:A:764:ASP:HB2	2.48	0.48
1:B:143:ILE:HG21	1:B:281:PHE:CD2	2.48	0.48
1:B:235:ILE:HD12	1:C:810:GLU:OE2	2.13	0.48
1:B:451:ALA:HB1	1:B:883:VAL:CG1	2.42	0.48
1:C:970:MET:SD	1:C:970:MET:N	2.86	0.48
1:D:478:MET:O	1:D:481:SER:OG	2.20	0.48
1:D:571:VAL:HA	1:D:631:LEU:HD13	1.95	0.48
1:D:752:ALA:O	1:D:774:MET:HA	2.13	0.48
1:D:910:ILE:O	1:D:914:LEU:HB2	2.13	0.48
1:F:827:ILE:N	1:F:827:ILE:HD12	2.28	0.48
1:A:75:LEU:H	1:C:170:SER:HB2	1.79	0.48
1:B:72:ILE:CD1	1:B:107:VAL:HG23	2.43	0.48
1:B:172:VAL:C	1:B:294:ALA:HB2	2.34	0.48
1:B:259:ARG:HD3	1:B:259:ARG:N	2.22	0.48
1:B:375:VAL:O	1:B:379:THR:OG1	2.29	0.48
1:C:984:LEU:HD22	1:C:984:LEU:HA	1.47	0.48
1:D:5:PHE:HE2	1:D:11:PHE:CD1	2.31	0.48
1:F:36:PRO:HG3	1:F:469:GLN:CD	2.34	0.48
1:F:600:THR:HB	1:F:601:LYS:HG3	1.94	0.48
1:A:151:GLN:HE22	1:A:279:ALA:N	2.04	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:199:THR:HB	1:A:200:PRO:HD2	1.96	0.48
1:B:652:THR:HG1	1:B:664:PHE:HD2	1.59	0.48
1:B:680:PHE:HB2	1:B:859:TRP:CZ3	2.45	0.48
1:B:685:ILE:CD1	1:B:819:TYR:HB3	2.35	0.48
1:C:594:VAL:O	1:C:597:TYR:HB3	2.14	0.48
1:C:860:THR:CA	1:C:864:TYR:HB2	2.44	0.48
1:C:893:GLU:HG3	1:C:894:SER:N	2.28	0.48
1:D:11:PHE:O	1:D:15:ILE:HG13	2.13	0.48
1:D:146:ASP:O	1:D:148:THR:N	2.47	0.48
1:D:188:MET:CE	1:D:200:PRO:HG3	2.43	0.48
1:D:425:LEU:HD22	1:D:429:GLU:OE1	2.13	0.48
1:D:467:TYR:HE2	1:D:925:VAL:HG22	1.78	0.48
1:D:960:LEU:HD23	1:D:1031:ARG:NH2	2.27	0.48
1:E:925:VAL:O	1:E:928:GLN:HB2	2.13	0.48
1:F:344:LEU:CA	1:F:399:VAL:HG22	2.43	0.48
1:F:602:GLU:CD	1:F:650:ARG:HD2	2.33	0.48
1:A:298:ASN:ND2	1:A:301:ASP:OD2	2.46	0.48
1:B:149:MET:HE2	1:B:153:ASP:HB3	1.95	0.48
1:B:228:GLN:HE21	1:B:230:LEU:N	2.08	0.48
1:B:376:LEU:HA	1:B:379:THR:OG1	2.14	0.48
1:B:577:GLN:HE22	1:B:721:LEU:HD11	1.77	0.48
1:B:699:ARG:NE	1:B:722:GLU:OE1	2.46	0.48
1:C:6:ILE:CG2	1:C:487:ILE:HG12	2.44	0.48
1:C:222:THR:HA	1:C:224:PRO:CD	2.42	0.48
1:C:301:ASP:HA	1:C:304:ALA:CB	2.44	0.48
1:C:401:ALA:HB2	1:C:474:ILE:HG12	1.96	0.48
1:C:616:GLY:HA2	1:C:626:ILE:HB	1.95	0.48
1:C:654:ALA:O	1:C:658:ILE:HG12	2.14	0.48
1:C:864:TYR:HD2	1:C:865:GLN:HE21	1.61	0.48
1:C:900:SER:HA	1:C:1029:VAL:HG21	1.96	0.48
1:D:24:GLY:O	1:D:27:ILE:HB	2.13	0.48
1:D:35:TYR:HE2	1:D:564:LEU:HD11	1.78	0.48
1:D:210:GLN:NE2	1:D:250:LEU:O	2.47	0.48
1:D:249:ILE:HB	1:D:262:LEU:HB2	1.96	0.48
1:D:692:HIS:NE2	1:D:813:SER:HB2	2.28	0.48
1:E:885:PHE:HD2	1:E:886:LEU:HD12	1.78	0.48
1:F:139:VAL:HA	1:F:289:LEU:O	2.12	0.48
1:F:448:VAL:O	1:F:452:VAL:HG13	2.13	0.48
1:F:945:ILE:HD13	1:F:971:ARG:HH22	1.76	0.48
1:A:568:ASP:O	1:A:634:TRP:CZ3	2.67	0.48
1:B:193:LEU:HD23	1:B:193:LEU:HA	1.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:402:ILE:HA	1:B:405:LEU:HD12	1.94	0.48
1:B:508:GLY:N	1:B:518:ARG:HG3	2.29	0.48
1:B:544:LEU:O	1:B:547:ILE:HB	2.14	0.48
1:B:719:ASN:CB	1:B:828:LEU:HG	2.43	0.48
1:C:64:VAL:HG11	1:C:117:LEU:C	2.34	0.48
1:C:358:PHE:HB3	1:C:977:MET:HE2	1.96	0.48
1:C:376:LEU:HD13	1:C:398:MET:HG3	1.95	0.48
1:C:580:ALA:HB1	1:C:724:THR:HG22	1.95	0.48
1:C:880:SER:HA	1:C:883:VAL:HG12	1.94	0.48
1:D:137:LEU:HD22	1:D:293:LEU:HD23	1.95	0.48
1:D:155:SER:HB3	1:D:180:SER:H	1.77	0.48
1:D:475:VAL:HG13	1:D:478:MET:HE1	1.94	0.48
1:F:13:TRP:HA	1:F:13:TRP:HE3	1.79	0.48
1:F:255:GLN:H	1:F:255:GLN:CD	2.17	0.48
1:F:739:LEU:HD13	1:F:799:VAL:HG11	1.95	0.48
1:A:100:ALA:HB1	1:A:295:THR:HG21	1.96	0.48
1:A:197:GLN:HB2	1:A:252:LYS:NZ	2.29	0.48
1:A:944:LEU:HB3	1:A:971:ARG:CD	2.40	0.48
1:A:971:ARG:C	1:A:974:PRO:HD2	2.34	0.48
1:B:481:SER:HA	1:B:484:VAL:HG22	1.95	0.48
1:B:827:ILE:HD12	1:B:827:ILE:N	2.29	0.48
1:B:894:SER:CB	1:B:897:ILE:HD11	2.43	0.48
1:C:165:ALA:HB3	1:C:313:MET:HE1	1.95	0.48
1:C:393:LEU:CG	1:C:466:ILE:HD12	2.44	0.48
1:C:456:MET:HB3	1:C:876:LEU:HD22	1.95	0.48
1:D:279:ALA:HB3	1:D:286:ALA:O	2.14	0.48
1:D:355:MET:HE2	1:D:368:PRO:HG2	1.95	0.48
1:D:359:LEU:O	1:D:361:ASN:N	2.47	0.48
1:D:888:LEU:HD22	1:D:892:TYR:CE2	2.37	0.48
1:E:213:GLN:HA	1:E:237:GLN:O	2.13	0.48
1:E:453:PHE:O	1:E:456:MET:HG2	2.14	0.48
1:F:169:THR:HG21	1:F:306:ILE:HD13	1.96	0.48
1:F:410:ILE:HD13	1:F:977:MET:HG2	1.95	0.48
1:F:960:LEU:CD2	1:F:1031:ARG:HE	2.27	0.48
1:A:49:TYR:HE1	1:A:60:THR:HG21	1.78	0.48
1:A:659:LYS:NZ	1:A:659:LYS:HB2	2.29	0.48
1:A:801:PHE:HA	1:A:804:PHE:CE2	2.48	0.48
1:B:8:ARG:HB3	1:B:11:PHE:HB3	1.96	0.48
1:B:26:ALA:O	1:B:30:LEU:HD22	2.14	0.48
1:B:885:PHE:CD2	1:B:886:LEU:HD22	2.48	0.48
1:C:76:MET:HE1	1:C:864:TYR:HE2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:445:ILE:HG22	1:C:446:ALA:N	2.29	0.48
1:C:559:LEU:HD11	1:C:922:THR:HA	1.95	0.48
1:D:350:LEU:HD13	1:D:984:LEU:O	2.13	0.48
1:D:684:LEU:HD11	1:D:855:VAL:HG13	1.95	0.48
1:D:687:GLN:HG2	1:F:316:PHE:CD1	2.49	0.48
1:D:757:SER:O	1:D:772:TYR:HA	2.14	0.48
1:D:885:PHE:HA	1:D:902:MET:HE1	1.96	0.48
1:D:959:GLY:CA	1:D:1040:ILE:HG21	2.42	0.48
1:D:971:ARG:HH11	1:D:971:ARG:CG	2.25	0.48
1:A:559:LEU:CD2	1:A:922:THR:HA	2.43	0.48
1:C:162:MET:C	1:C:164:ASP:N	2.67	0.48
1:C:400:LEU:HD13	1:C:400:LEU:C	2.35	0.48
1:C:530:SER:O	1:C:533:GLY:N	2.47	0.48
1:C:727:PHE:CD2	1:C:729:ILE:HD11	2.49	0.48
1:C:727:PHE:HB2	1:C:809:TRP:HZ3	1.78	0.48
1:D:242:SER:O	1:D:246:PHE:HD1	1.97	0.48
1:D:360:GLN:NE2	1:D:513:PHE:HB3	2.19	0.48
1:D:393:LEU:HD13	1:D:466:ILE:HG23	1.94	0.48
1:E:24:GLY:O	1:E:27:ILE:HB	2.14	0.48
1:E:225:VAL:HG12	1:F:777:ALA:HB1	1.94	0.48
1:E:444:GLY:O	1:E:447:MET:HB2	2.13	0.48
1:E:451:ALA:HB3	1:E:884:VAL:HG22	1.96	0.48
1:F:5:PHE:HE1	1:F:8:ARG:HD2	1.77	0.48
1:F:206:ALA:O	1:F:210:GLN:HG3	2.14	0.48
1:F:348:ILE:HD12	1:F:348:ILE:HG23	1.60	0.48
1:F:580:ALA:HB1	1:F:724:THR:HG22	1.95	0.48
1:F:785:ASP:O	1:F:789:TRP:CD1	2.67	0.48
1:F:904:VAL:HG21	1:F:942:ALA:HB2	1.95	0.48
1:F:960:LEU:HD21	1:F:1031:ARG:HE	1.79	0.48
1:A:232:ALA:HB1	1:B:725:PRO:O	2.14	0.47
1:A:497:LEU:HD12	1:A:498:LYS:H	1.79	0.47
1:A:525:HIS:O	1:A:526:HIS:C	2.49	0.47
1:A:531:VAL:HA	1:A:534:ILE:HG23	1.97	0.47
1:A:573:MET:O	1:A:666:PHE:HD1	1.96	0.47
1:A:911:GLY:HA3	1:A:1013:THR:CG2	2.43	0.47
1:B:376:LEU:HD21	1:B:405:LEU:HD11	1.96	0.47
1:B:434:SER:O	1:B:437:GLN:HG2	2.14	0.47
1:C:293:LEU:HD21	1:C:297:ALA:HB3	1.96	0.47
1:C:680:PHE:HB2	1:C:859:TRP:CZ3	2.49	0.47
1:D:169:THR:HG21	1:D:306:ILE:CG1	2.44	0.47
1:D:926:TYR:HB3	1:D:1003:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:17:ILE:HG22	1:F:886:LEU:HD11	1.96	0.47
1:E:356:TYR:O	1:E:360:GLN:N	2.36	0.47
1:F:641:GLU:HB2	1:F:650:ARG:NH2	2.29	0.47
1:F:641:GLU:HB2	1:F:650:ARG:HH22	1.79	0.47
1:A:176:GLN:NE2	1:A:177:LEU:O	2.45	0.47
1:A:181:GLN:HG2	1:A:769:LYS:NZ	2.29	0.47
1:A:242:SER:OG	1:A:245:GLU:HG3	2.14	0.47
1:A:893:GLU:OE2	1:C:9:PRO:HD2	2.14	0.47
1:B:548:ILE:HG23	1:B:910:ILE:HG13	1.96	0.47
1:C:31:PRO:HB2	1:C:389:SER:OG	2.15	0.47
1:C:455:PRO:HG2	1:C:880:SER:CA	2.44	0.47
1:C:727:PHE:CZ	1:C:783:PRO:HB3	2.49	0.47
1:D:42:ALA:HB2	1:D:93:THR:HG23	1.96	0.47
1:D:247:GLY:HA2	1:D:268:ILE:HD12	1.95	0.47
1:D:721:LEU:HD13	1:D:721:LEU:HA	1.44	0.47
1:E:35:TYR:HB3	1:E:36:PRO:HD2	1.96	0.47
1:F:451:ALA:O	1:F:454:VAL:HG23	2.14	0.47
1:A:70:ASN:HB2	1:C:167:SER:O	2.14	0.47
1:A:545:TYR:CE1	1:A:903:LEU:HD13	2.49	0.47
1:A:686:ASP:HB2	1:A:695:LEU:HG	1.97	0.47
1:B:889:ALA:HA	1:B:898:PRO:HG3	1.95	0.47
1:B:899:PHE:CD1	1:B:902:MET:HE1	2.49	0.47
1:C:181:GLN:HG2	1:C:769:LYS:HZ2	1.80	0.47
1:C:220:GLY:HA2	1:C:228:GLN:NE2	2.30	0.47
1:C:761:ASP:OD1	1:C:770:LYS:HA	2.14	0.47
1:D:76:MET:HB2	1:D:93:THR:O	2.13	0.47
1:D:683:GLU:OE2	1:D:826:GLU:HB3	2.14	0.47
1:D:971:ARG:O	1:D:975:ILE:HG12	2.14	0.47
1:E:75:LEU:HA	1:E:94:PHE:HD1	1.79	0.47
1:F:193:LEU:HD12	1:F:200:PRO:HD3	1.96	0.47
1:F:602:GLU:O	1:F:606:VAL:HG22	2.14	0.47
1:F:786:ILE:HG23	1:F:801:PHE:HD2	1.80	0.47
1:A:193:LEU:CD2	1:A:265:VAL:HB	2.45	0.47
1:A:303:ALA:O	1:A:307:ARG:HB2	2.14	0.47
1:A:364:ALA:HA	1:A:367:ILE:HD11	1.95	0.47
1:A:393:LEU:HD21	1:A:469:GLN:HG2	1.97	0.47
1:A:721:LEU:HA	1:A:721:LEU:HD13	1.62	0.47
1:B:819:TYR:N	1:B:824:SER:OG	2.47	0.47
1:B:971:ARG:C	1:B:974:PRO:HD2	2.34	0.47
1:C:634:TRP:H	1:C:634:TRP:HD1	1.57	0.47
1:C:790:TYR:HB3	1:C:798:MET:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:946:VAL:HG13	1:C:1026:PHE:CD1	2.49	0.47
1:C:968:VAL:HG21	1:C:1023:PRO:HB3	1.96	0.47
1:D:152:GLU:HB3	1:D:182:TYR:CE1	2.41	0.47
1:D:709:HIS:HB2	1:D:713:LEU:HD23	1.96	0.47
1:D:783:PRO:O	1:D:786:ILE:HB	2.14	0.47
1:D:941:ASN:HB3	1:D:975:ILE:HD12	1.96	0.47
1:E:58:GLN:HA	1:E:62:THR:HB	1.97	0.47
1:E:61:VAL:HG11	1:E:88:VAL:HG11	1.96	0.47
1:E:525:HIS:O	1:E:526:HIS:C	2.53	0.47
1:E:592:ASN:O	1:E:592:ASN:ND2	2.39	0.47
1:E:778:LYS:HA	1:E:781:MET:HE2	1.95	0.47
1:E:979:SER:OG	1:E:1015:THR:HG21	2.15	0.47
1:F:779:TYR:HB2	1:F:789:TRP:HZ2	1.79	0.47
1:F:843:LEU:HD22	1:F:846:GLN:HB3	1.96	0.47
1:A:210:GLN:O	1:A:237:GLN:NE2	2.48	0.47
1:A:254:ASN:HB2	1:A:258:SER:O	2.15	0.47
1:A:671:ILE:HG12	1:A:673:GLU:O	2.14	0.47
1:B:85:THR:HG21	1:B:620:ARG:HD3	1.96	0.47
1:B:110:LYS:HB2	1:B:110:LYS:HZ2	1.80	0.47
1:B:135:SER:OG	1:B:673:GLU:OE1	2.33	0.47
1:B:338:HIS:ND1	1:B:338:HIS:C	2.68	0.47
1:B:634:TRP:HD1	1:B:634:TRP:H	1.52	0.47
1:C:108:GLN:O	1:C:112:GLN:HB2	2.13	0.47
1:C:367:ILE:HD12	1:C:488:LEU:CD2	2.44	0.47
1:C:394:THR:CA	1:C:469:GLN:HB3	2.44	0.47
1:C:446:ALA:HA	1:C:478:MET:HB2	1.95	0.47
1:C:534:ILE:HG12	2:C:2000:LMT:H12	1.95	0.47
1:C:864:TYR:CE1	1:C:867:ARG:NH2	2.82	0.47
1:C:897:ILE:HG23	1:C:946:VAL:HG11	1.96	0.47
1:C:937:LEU:O	1:C:940:LYS:HB3	2.14	0.47
1:D:17:ILE:HG22	1:E:886:LEU:HD21	1.96	0.47
1:D:521:GLU:O	1:D:524:THR:HG23	2.13	0.47
1:E:196:PHE:N	1:E:196:PHE:CD1	2.81	0.47
1:E:686:ASP:HB2	1:E:695:LEU:HD13	1.97	0.47
1:E:688:ALA:HB3	1:E:690:LEU:HG	1.96	0.47
1:F:58:GLN:HA	1:F:62:THR:HG23	1.96	0.47
1:F:424:GLY:HA3	1:F:502:LYS:HG3	1.96	0.47
1:F:527:TYR:O	1:F:530:SER:HB3	2.14	0.47
1:F:681:ASP:OD2	1:F:681:ASP:N	2.47	0.47
1:B:195:LYS:HZ1	1:B:196:PHE:HE1	1.63	0.47
1:B:250:LEU:HA	1:B:261:LEU:HD23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:343:THR:HG23	1:B:988:PRO:HB2	1.97	0.47
1:B:559:LEU:CD1	1:B:922:THR:HA	2.43	0.47
1:B:621:GLY:O	1:B:624:THR:HG22	2.14	0.47
1:B:873:ALA:N	1:B:874:PRO:HD2	2.30	0.47
1:C:41:PRO:HD2	1:C:95:GLU:C	2.34	0.47
1:C:72:ILE:HG21	1:C:94:PHE:CE2	2.50	0.47
1:C:353:LEU:HD22	1:C:353:LEU:HA	1.71	0.47
1:C:540:ARG:O	1:C:543:VAL:HB	2.15	0.47
1:C:676:THR:HG21	1:C:828:LEU:HD22	1.97	0.47
1:E:108:GLN:OE1	1:F:112:GLN:HB3	2.15	0.47
1:E:727:PHE:HB2	1:E:809:TRP:HZ3	1.79	0.47
1:F:48:SER:HA	1:F:86:GLY:O	2.15	0.47
1:F:804:PHE:CD2	1:F:804:PHE:N	2.82	0.47
1:F:971:ARG:NH1	1:F:971:ARG:O	2.48	0.47
1:A:36:PRO:HD3	1:A:391:ASN:OD1	2.15	0.47
1:A:109:ASN:HB2	1:B:109:ASN:OD1	2.14	0.47
1:A:111:LEU:HD13	1:A:115:MET:HG2	1.96	0.47
1:A:388:PHE:HE1	1:A:472:ILE:HG21	1.79	0.47
1:A:394:THR:OG1	1:A:469:GLN:HG3	2.14	0.47
1:A:754:TRP:CZ2	1:A:780:ARG:HA	2.50	0.47
1:A:790:TYR:CE2	1:A:800:PRO:HB3	2.48	0.47
1:A:843:LEU:HD13	1:A:844:MET:N	2.29	0.47
1:A:961:ILE:H	1:A:1039:ASP:CG	2.13	0.47
1:A:969:ARG:NH1	1:A:970:MET:HB3	2.27	0.47
1:B:47:ALA:O	1:B:87:THR:HA	2.14	0.47
1:B:177:LEU:HA	1:B:289:LEU:HD23	1.96	0.47
1:B:459:PHE:CD1	1:B:876:LEU:HD12	2.50	0.47
1:B:493:CYS:O	1:B:497:LEU:HB3	2.15	0.47
1:B:564:LEU:HD12	1:B:925:VAL:HG11	1.96	0.47
1:B:714:THR:OG1	1:B:832:ALA:HA	2.14	0.47
1:B:742:SER:O	1:B:745:ASP:HB2	2.15	0.47
1:C:11:PHE:HE2	1:C:15:ILE:HD11	1.78	0.47
1:C:120:GLN:NE2	1:C:123:GLN:OE1	2.48	0.47
1:C:138:MET:HB3	1:C:291:ILE:HD11	1.97	0.47
1:C:159:ALA:HB2	1:C:177:LEU:HD11	1.95	0.47
1:C:166:ILE:HG22	1:C:175:VAL:HG21	1.97	0.47
1:C:367:ILE:HG23	1:C:488:LEU:HD22	1.96	0.47
1:C:423:GLU:OE2	1:C:425:LEU:HD23	2.14	0.47
1:C:931:LEU:HD22	1:C:931:LEU:HA	1.50	0.47
1:D:13:TRP:NE1	1:D:492:LEU:HD21	2.30	0.47
1:D:114:ALA:O	1:D:118:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:254:ASN:HB3	1:D:256:ASP:OD1	2.14	0.47
1:D:350:LEU:HD22	1:D:984:LEU:HD12	1.96	0.47
1:D:1030:ARG:CZ	1:D:1033:PHE:HD2	2.28	0.47
1:E:35:TYR:CD2	1:E:671:ILE:HG12	2.50	0.47
1:E:722:GLU:O	1:E:814:PRO:HD2	2.15	0.47
1:E:834:GLY:O	1:E:835:LYS:HD2	2.15	0.47
1:E:888:LEU:HD21	1:E:943:ILE:HD11	1.97	0.47
1:E:1037:ASN:HA	1:E:1038:GLU:CB	2.45	0.47
1:F:363:ARG:HB3	1:F:363:ARG:NH1	2.30	0.47
1:F:597:TYR:CD2	1:F:655:PHE:CZ	3.01	0.47
1:F:602:GLU:OE1	1:F:650:ARG:HD2	2.14	0.47
1:F:1034:SER:O	1:F:1036:LYS:N	2.47	0.47
1:A:263:ARG:HE	1:A:263:ARG:HB3	1.46	0.47
1:A:578:LEU:CD1	1:A:579:PRO:HD2	2.44	0.47
1:B:169:THR:HG21	1:B:306:ILE:HG13	1.95	0.47
1:B:573:MET:O	1:B:666:PHE:HD2	1.97	0.47
1:B:578:LEU:HD11	1:B:587:THR:N	2.30	0.47
1:B:744:ASN:OD1	1:B:744:ASN:N	2.48	0.47
1:B:785:ASP:OD1	1:B:785:ASP:N	2.48	0.47
1:C:420:MET:SD	1:C:500:ILE:HB	2.55	0.47
1:C:451:ALA:CB	1:C:884:VAL:HG22	2.43	0.47
1:D:974:PRO:HA	1:D:977:MET:CE	2.44	0.47
1:E:110:LYS:O	1:E:113:LEU:HB2	2.15	0.47
1:E:888:LEU:HA	1:E:888:LEU:HD23	1.54	0.47
1:A:552:MET:SD	1:A:909:VAL:HB	2.54	0.47
1:B:10:ILE:HA	1:B:10:ILE:HD13	1.64	0.47
1:B:40:PRO:HA	1:B:41:PRO:HD3	1.55	0.47
1:B:100:ALA:CB	1:B:131:LYS:HD3	2.45	0.47
1:B:277:ILE:HD12	1:B:277:ILE:O	2.15	0.47
1:B:944:LEU:HB3	1:B:971:ARG:HH12	1.80	0.47
1:C:78:MET:SD	1:C:92:LEU:HD12	2.55	0.47
1:C:664:PHE:CE2	1:C:717:ARG:HB3	2.49	0.47
1:D:151:GLN:HG3	1:D:152:GLU:N	2.30	0.47
1:D:597:TYR:HD2	1:D:655:PHE:CZ	2.33	0.47
1:E:238:THR:HG22	1:E:239:ARG:O	2.15	0.47
1:F:65:ILE:HA	1:F:114:ALA:CB	2.44	0.47
1:F:470:PHE:CD1	1:F:929:VAL:HG21	2.50	0.47
1:F:559:LEU:HD23	1:F:560:PRO:HD2	1.96	0.47
1:A:4:PHE:HB3	1:A:8:ARG:NH1	2.30	0.47
1:A:515:TRP:HB3	1:A:519:MET:HE3	1.96	0.47
1:A:911:GLY:CA	1:A:1013:THR:HG21	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:99:ASP:O	1:B:102:ILE:HG12	2.15	0.47
1:B:101:ASP:HB3	1:C:105:VAL:CG1	2.45	0.47
1:B:139:VAL:HG13	1:B:178:PHE:HE1	1.80	0.47
1:B:375:VAL:CG1	1:B:405:LEU:HD22	2.44	0.47
1:B:465:ALA:O	1:B:468:ARG:HB2	2.15	0.47
1:B:767:ARG:HH21	1:C:117:LEU:CD1	2.24	0.47
1:C:453:PHE:CE2	1:C:474:ILE:HD12	2.49	0.47
1:C:712:MET:SD	1:C:843:LEU:HG	2.54	0.47
1:D:946:VAL:HG13	1:D:1026:PHE:CD1	2.50	0.47
1:E:139:VAL:HA	1:E:289:LEU:O	2.15	0.47
1:E:165:ALA:HB3	1:E:313:MET:CE	2.45	0.47
1:E:528:THR:HG21	1:E:969:ARG:HG3	1.96	0.47
1:F:371:ALA:HB1	1:F:484:VAL:HG11	1.97	0.47
1:F:568:ASP:O	1:F:634:TRP:HH2	1.96	0.47
1:A:214:VAL:HG11	1:B:747:ASN:CG	2.36	0.46
1:A:352:PHE:CE1	1:A:365:THR:HB	2.50	0.46
1:A:902:MET:O	1:A:905:VAL:HG22	2.14	0.46
1:B:169:THR:OG1	1:B:305:ALA:O	2.33	0.46
1:B:417:GLU:OE2	1:B:497:LEU:HD11	2.15	0.46
1:B:448:VAL:HG12	1:B:884:VAL:HA	1.96	0.46
1:B:746:ILE:HG22	1:B:801:PHE:HE1	1.80	0.46
1:C:356:TYR:C	1:C:358:PHE:H	2.18	0.46
1:D:463:THR:O	1:D:466:ILE:HB	2.15	0.46
1:D:909:VAL:O	1:D:911:GLY:N	2.48	0.46
1:F:379:THR:O	1:F:382:VAL:N	2.47	0.46
1:F:404:LEU:HG	1:F:449:LEU:CD1	2.45	0.46
1:F:418:ARG:O	1:F:422:GLU:HG3	2.16	0.46
1:F:530:SER:OG	2:F:2000:LMT:H21	2.16	0.46
1:F:686:ASP:OD2	1:F:823:PRO:HB2	2.16	0.46
1:A:54:ALA:HB2	1:A:84:SER:HB3	1.97	0.46
1:A:117:LEU:HD21	1:C:125:GLN:OE1	2.14	0.46
1:A:979:SER:HA	1:A:1011:MET:HE1	1.96	0.46
1:B:527:TYR:OH	1:B:968:VAL:HG13	2.15	0.46
1:B:600:THR:HB	1:B:601:LYS:HD2	1.97	0.46
1:B:657:GLN:HG3	1:B:658:ILE:HG23	1.98	0.46
1:B:787:GLY:O	1:B:789:TRP:N	2.48	0.46
1:C:49:TYR:CD2	1:C:57:VAL:HG12	2.49	0.46
1:C:416:VAL:CG2	1:C:438:ILE:HD11	2.45	0.46
1:C:439:GLN:O	1:C:442:LEU:HG	2.15	0.46
1:C:483:LEU:HA	1:C:486:LEU:HG	1.97	0.46
1:C:650:ARG:HA	1:C:653:ARG:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:959:GLY:HA2	1:C:1041:GLU:H	1.80	0.46
1:E:201:VAL:HG21	1:E:745:ASP:HA	1.97	0.46
1:E:251:LEU:HD21	1:E:262:LEU:HB2	1.98	0.46
1:E:467:TYR:OH	1:E:928:GLN:HG3	2.14	0.46
1:E:736:ALA:HB2	1:E:804:PHE:CD1	2.50	0.46
1:E:861:GLY:O	1:E:864:TYR:N	2.45	0.46
1:F:36:PRO:O	1:F:38:ILE:HG13	2.15	0.46
1:F:1018:ALA:O	1:F:1022:VAL:HG23	2.15	0.46
1:A:157:TYR:HE1	1:A:318:PRO:CD	2.28	0.46
1:A:168:ARG:O	1:B:75:LEU:HB2	2.15	0.46
1:A:281:PHE:CD1	1:A:610:PHE:HD1	2.27	0.46
1:A:448:VAL:CG1	1:A:884:VAL:HG23	2.45	0.46
1:A:754:TRP:HZ2	1:A:785:ASP:HB2	1.80	0.46
1:B:376:LEU:HA	1:B:376:LEU:HD23	1.72	0.46
1:C:356:TYR:O	1:C:358:PHE:N	2.48	0.46
1:C:520:PHE:HE2	1:C:973:ARG:HG3	1.80	0.46
1:D:391:ASN:ND2	1:D:469:GLN:OE1	2.48	0.46
1:D:792:ARG:HB2	1:D:798:MET:SD	2.55	0.46
1:E:414:GLU:OE1	1:E:973:ARG:HD3	2.14	0.46
1:E:427:PRO:O	1:E:430:ALA:N	2.49	0.46
1:E:486:LEU:O	1:E:490:PRO:HG3	2.15	0.46
1:F:909:VAL:O	1:F:912:ALA:N	2.48	0.46
1:A:65:ILE:O	1:A:69:MET:N	2.47	0.46
1:A:108:GLN:CB	1:B:109:ASN:HB3	2.45	0.46
1:A:166:ILE:CG2	1:A:175:VAL:HG21	2.41	0.46
1:A:246:PHE:O	1:A:262:LEU:HD23	2.15	0.46
1:A:726:GLN:HG2	1:C:233:SER:HB2	1.97	0.46
1:A:968:VAL:HA	1:A:971:ARG:NH2	2.20	0.46
1:A:973:ARG:HB3	1:A:974:PRO:HD3	1.97	0.46
1:B:405:LEU:CD2	1:B:477:ALA:HB1	2.41	0.46
1:B:707:ALA:N	1:B:716:VAL:HG21	2.30	0.46
1:C:5:PHE:O	1:C:8:ARG:HB2	2.16	0.46
1:C:792:ARG:HG2	1:C:792:ARG:HH11	1.80	0.46
1:C:851:LEU:HB3	1:C:852:PRO:HD2	1.96	0.46
1:D:362:PHE:O	1:D:365:THR:HG22	2.15	0.46
1:D:504:ASP:O	1:D:506:GLY:N	2.47	0.46
1:D:897:ILE:HG12	1:D:1030:ARG:CD	2.46	0.46
1:E:23:GLY:O	1:E:26:ALA:N	2.49	0.46
1:E:195:LYS:HB3	1:E:196:PHE:CD1	2.50	0.46
1:E:411:VAL:HG13	1:E:971:ARG:HH22	1.81	0.46
1:E:690:LEU:HD11	1:E:854:GLY:HA3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:727:PHE:HB2	1:E:809:TRP:CZ3	2.50	0.46
1:F:119:PRO:O	1:F:122:VAL:HG22	2.15	0.46
1:F:897:ILE:HG23	1:F:946:VAL:HG11	1.97	0.46
1:F:960:LEU:O	1:F:964:THR:HG23	2.15	0.46
1:A:82:SER:HB2	1:A:816:LEU:HB2	1.96	0.46
1:A:452:VAL:HG23	1:A:453:PHE:CD2	2.50	0.46
1:B:972:LEU:HD22	1:B:976:LEU:HD13	1.98	0.46
1:C:61:VAL:HB	1:C:88:VAL:HG21	1.97	0.46
1:C:461:GLY:HA3	1:C:868:LEU:HD21	1.97	0.46
1:C:669:PRO:HG2	1:C:671:ILE:O	2.16	0.46
1:C:974:PRO:O	1:C:975:ILE:C	2.53	0.46
1:D:5:PHE:O	1:D:8:ARG:N	2.45	0.46
1:D:544:LEU:O	1:D:548:ILE:HG13	2.16	0.46
1:D:758:TYR:CD1	1:D:770:LYS:HD3	2.51	0.46
1:D:968:VAL:HG22	1:D:1023:PRO:HG3	1.98	0.46
1:E:610:PHE:O	1:E:627:ALA:HA	2.14	0.46
1:E:727:PHE:HD2	1:E:729:ILE:HD11	1.80	0.46
1:E:754:TRP:CD2	1:E:780:ARG:HB2	2.50	0.46
1:E:865:GLN:H	1:E:865:GLN:HG2	1.60	0.46
1:F:197:GLN:O	1:F:792:ARG:HD3	2.15	0.46
1:F:506:GLY:O	1:F:508:GLY:N	2.48	0.46
1:F:940:LYS:HE2	1:F:978:THR:HG21	1.97	0.46
1:A:105:VAL:HG13	1:B:109:ASN:HB2	1.97	0.46
1:A:282:ASN:OD1	1:A:599:LEU:HD11	2.16	0.46
1:A:448:VAL:O	1:A:452:VAL:HG13	2.15	0.46
1:A:455:PRO:O	1:A:876:LEU:HD13	2.16	0.46
1:A:676:THR:O	1:A:676:THR:OG1	2.32	0.46
1:A:731:ILE:CG2	1:A:733:GLN:HE21	2.28	0.46
1:B:401:ALA:CB	1:B:474:ILE:HG23	2.45	0.46
1:B:476:SER:O	1:B:480:LEU:HB3	2.16	0.46
1:B:696:THR:HG22	1:B:699:ARG:NH1	2.31	0.46
1:C:901:VAL:HG21	1:C:943:ILE:HD13	1.97	0.46
1:D:929:VAL:HA	1:D:932:LEU:HD12	1.98	0.46
1:E:104:GLN:HB3	1:F:109:ASN:ND2	2.31	0.46
1:E:445:ILE:HD13	1:E:940:LYS:CD	2.45	0.46
1:E:536:ARG:NE	2:E:2000:LMT:C4B	2.37	0.46
1:E:557:VAL:C	1:E:559:LEU:H	2.18	0.46
1:E:908:GLY:HA2	1:E:1014:ALA:HB2	1.97	0.46
1:E:982:PHE:O	1:E:983:ILE:C	2.51	0.46
1:F:158:VAL:HA	1:F:162:MET:HE3	1.98	0.46
1:F:600:THR:O	1:F:603:LYS:HE3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:133:SER:HB3	1:A:293:LEU:HB3	1.96	0.46
1:A:376:LEU:O	1:A:378:GLY:N	2.49	0.46
1:A:805:SER:O	1:A:805:SER:OG	2.30	0.46
1:B:4:PHE:HZ	1:B:8:ARG:HH11	1.62	0.46
1:B:680:PHE:CB	1:B:859:TRP:HZ3	2.28	0.46
1:B:986:VAL:HG11	1:B:1007:VAL:HG12	1.98	0.46
1:B:1007:VAL:HG12	1:B:1008:MET:N	2.31	0.46
1:C:564:LEU:CD2	1:C:670:ALA:HB3	2.46	0.46
1:C:594:VAL:HG22	1:C:655:PHE:CE2	2.51	0.46
1:D:149:MET:HG3	1:D:154:ILE:HG13	1.97	0.46
1:E:760:ASN:H	1:E:771:VAL:HB	1.81	0.46
1:F:445:ILE:HG12	1:F:940:LYS:HG2	1.98	0.46
1:F:875:SER:O	1:F:879:ILE:HD13	2.16	0.46
1:F:924:ASP:OD1	1:F:925:VAL:N	2.49	0.46
1:A:72:ILE:HD12	1:A:107:VAL:HA	1.98	0.46
1:A:682:PHE:CE2	1:A:857:TYR:HB2	2.51	0.46
1:A:714:THR:OG1	1:A:832:ALA:HA	2.16	0.46
1:A:944:LEU:CB	1:A:971:ARG:HD2	2.45	0.46
1:A:968:VAL:HG21	1:A:1023:PRO:HG3	1.97	0.46
1:B:947:GLU:HG3	1:B:948:PHE:N	2.30	0.46
1:C:46:SER:HA	1:C:88:VAL:O	2.15	0.46
1:C:578:LEU:CD1	1:C:579:PRO:HD2	2.46	0.46
1:C:888:LEU:HD13	1:C:943:ILE:HD11	1.96	0.46
1:D:10:ILE:HB	1:E:893:GLU:OE1	2.16	0.46
1:D:454:VAL:HB	1:D:455:PRO:HD3	1.97	0.46
1:D:751:GLY:O	1:D:754:TRP:N	2.49	0.46
1:A:21:LEU:O	1:A:25:LEU:HB2	2.15	0.46
1:A:140:VAL:HG13	1:A:325:TYR:CE2	2.51	0.46
1:A:600:THR:HG23	1:A:601:LYS:N	2.30	0.46
1:A:762:PHE:HE1	1:A:764:ASP:HB2	1.80	0.46
1:B:362:PHE:O	1:B:365:THR:HG22	2.16	0.46
1:B:375:VAL:HG11	1:B:405:LEU:HD22	1.98	0.46
1:B:491:ALA:O	1:B:495:THR:OG1	2.14	0.46
1:B:844:MET:HG3	1:B:845:GLU:H	1.80	0.46
1:C:456:MET:O	1:C:467:TYR:HD1	1.98	0.46
1:C:979:SER:HA	1:C:1011:MET:CE	2.46	0.46
1:D:1034:SER:HB3	1:D:1035:ARG:H	1.43	0.46
1:E:602:GLU:OE2	1:E:650:ARG:HD2	2.15	0.46
1:E:791:VAL:O	1:E:798:MET:HA	2.16	0.46
1:E:1037:ASN:HA	1:E:1038:GLU:CG	2.46	0.46
1:F:263:ARG:HD2	1:F:264:ASP:OD1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:267:LYS:C	1:F:268:ILE:HD12	2.36	0.46
1:F:362:PHE:O	1:F:365:THR:OG1	2.21	0.46
1:F:586:ARG:O	1:F:589:LYS:HB2	2.16	0.46
1:A:200:PRO:O	1:A:203:VAL:N	2.49	0.46
1:B:110:LYS:HB2	1:B:110:LYS:NZ	2.30	0.46
1:C:54:ALA:HB1	1:C:816:LEU:HG	1.98	0.46
1:C:503:GLY:HA2	1:C:505:HIS:ND1	2.30	0.46
1:C:751:GLY:O	1:C:753:ALA:N	2.49	0.46
1:C:786:ILE:O	1:C:789:TRP:HB2	2.16	0.46
1:D:69:MET:HE3	1:D:107:VAL:HG13	1.98	0.46
1:D:733:GLN:HE22	1:D:743:ILE:HG23	1.81	0.46
1:D:740:GLY:O	1:D:793:ALA:HB1	2.16	0.46
1:E:81:ASN:HD21	1:E:817:GLU:HG2	1.81	0.46
1:E:699:ARG:HH11	1:E:825:MET:CE	2.29	0.46
1:E:893:GLU:HG3	1:E:893:GLU:O	2.16	0.46
1:F:578:LEU:CD1	1:F:661:ALA:HB2	2.45	0.46
1:A:35:TYR:CE2	1:A:671:ILE:HG22	2.51	0.45
1:A:364:ALA:HA	1:A:367:ILE:CD1	2.46	0.45
1:B:45:ILE:CD1	1:B:107:VAL:HG11	2.46	0.45
1:B:451:ALA:HB1	1:B:883:VAL:CG2	2.47	0.45
1:B:681:ASP:N	1:B:681:ASP:OD1	2.49	0.45
1:C:363:ARG:HA	1:C:366:LEU:HG	1.98	0.45
1:C:586:ARG:O	1:C:589:LYS:HB2	2.16	0.45
1:C:898:PRO:HA	1:C:901:VAL:HG12	1.97	0.45
1:D:444:GLY:O	1:D:448:VAL:HG23	2.16	0.45
1:E:138:MET:HG2	1:E:140:VAL:HG23	1.98	0.45
1:E:545:TYR:OH	1:E:903:LEU:HD22	2.15	0.45
1:E:873:ALA:N	1:E:874:PRO:HD2	2.30	0.45
1:F:944:LEU:HD12	1:F:975:ILE:HD13	1.98	0.45
1:F:974:PRO:O	1:F:977:MET:N	2.49	0.45
1:A:958:LYS:HG2	1:A:962:GLU:OE1	2.15	0.45
1:B:35:TYR:HB3	1:B:36:PRO:HD2	1.98	0.45
1:B:425:LEU:HB3	1:B:426:PRO:HD2	1.98	0.45
1:C:54:ALA:O	1:C:82:SER:HB3	2.16	0.45
1:C:177:LEU:HD23	1:C:288:GLY:O	2.16	0.45
1:C:199:THR:HG21	1:C:792:ARG:H	1.81	0.45
1:C:909:VAL:HG12	1:C:913:LEU:HG	1.97	0.45
1:C:909:VAL:HG13	1:C:931:LEU:HD11	1.98	0.45
1:D:181:GLN:HG2	1:D:182:TYR:N	2.32	0.45
1:D:944:LEU:CB	1:D:971:ARG:HH12	2.29	0.45
1:D:1038:GLU:HB3	1:D:1040:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:493:CYS:O	1:E:497:LEU:HB3	2.15	0.45
1:F:46:SER:OG	1:F:89:GLN:HG2	2.17	0.45
1:F:363:ARG:HB2	1:F:496:MET:HE2	1.98	0.45
1:F:368:PRO:O	1:F:371:ALA:HB3	2.16	0.45
1:F:534:ILE:HG23	2:F:2000:LMT:HB3'	1.98	0.45
1:F:987:MET:O	1:F:990:VAL:N	2.48	0.45
1:A:672:VAL:O	1:A:673:GLU:HB2	2.17	0.45
1:A:713:LEU:CD2	1:A:843:LEU:HD11	2.39	0.45
1:A:1010:GLY:O	1:A:1014:ALA:HB2	2.16	0.45
1:B:238:THR:HG22	1:B:239:ARG:O	2.16	0.45
1:B:448:VAL:HG13	1:B:888:LEU:HG	1.99	0.45
1:B:467:TYR:CE2	1:B:925:VAL:HG23	2.52	0.45
1:B:744:ASN:O	1:B:748:THR:HG23	2.17	0.45
1:C:34:GLN:CD	1:C:333:VAL:HG22	2.36	0.45
1:C:358:PHE:CE1	1:C:977:MET:HA	2.52	0.45
1:C:420:MET:CE	1:C:427:PRO:HA	2.46	0.45
1:C:506:GLY:C	1:C:508:GLY:N	2.70	0.45
1:C:567:GLU:HG2	1:C:670:ALA:HB2	1.99	0.45
1:C:835:LYS:HA	1:C:835:LYS:NZ	2.31	0.45
1:D:34:GLN:CG	1:D:333:VAL:HG22	2.46	0.45
1:D:139:VAL:HG11	1:D:178:PHE:HE1	1.81	0.45
1:D:232:ALA:HB1	1:E:725:PRO:O	2.16	0.45
1:D:305:ALA:O	1:D:308:ALA:HB3	2.16	0.45
1:D:413:VAL:HA	1:D:493:CYS:SG	2.56	0.45
1:D:574:THR:HG1	1:D:598:TYR:HE2	1.64	0.45
1:D:582:ALA:HB1	1:D:586:ARG:HE	1.80	0.45
1:E:525:HIS:CD2	1:E:529:ASP:OD2	2.69	0.45
1:E:540:ARG:NH2	1:E:541:TYR:OH	2.43	0.45
1:F:77:TYR:HD2	1:F:819:TYR:OH	1.98	0.45
1:F:146:ASP:OD2	1:F:146:ASP:N	2.40	0.45
1:F:182:TYR:HB2	1:F:769:LYS:HZ2	1.81	0.45
1:F:971:ARG:C	1:F:974:PRO:HD2	2.36	0.45
1:A:56:THR:O	1:A:60:THR:HG22	2.17	0.45
1:A:74:ASN:N	1:C:170:SER:OG	2.49	0.45
1:A:448:VAL:O	1:A:451:ALA:HB3	2.17	0.45
1:A:712:MET:HA	1:A:835:LYS:HE3	1.97	0.45
1:A:960:LEU:HB3	1:A:1039:ASP:OD2	2.17	0.45
1:B:187:TRP:HB3	1:B:776:GLU:HG2	1.99	0.45
1:B:905:VAL:O	1:B:909:VAL:HG23	2.17	0.45
1:C:393:LEU:CB	1:C:466:ILE:HG23	2.46	0.45
1:C:394:THR:HB	1:C:469:GLN:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:484:VAL:CA	1:C:487:ILE:HB	2.42	0.45
1:C:537:SER:OG	1:C:540:ARG:HD2	2.17	0.45
1:C:589:LYS:O	1:C:592:ASN:HB2	2.17	0.45
1:C:785:ASP:O	1:C:789:TRP:HD1	1.98	0.45
1:D:284:GLN:HG3	1:D:285:PRO:CD	2.45	0.45
1:E:715:SER:O	1:E:717:ARG:HD2	2.16	0.45
1:E:1031:ARG:O	1:E:1032:ARG:HG3	2.16	0.45
1:F:602:GLU:OE2	1:F:650:ARG:HD2	2.16	0.45
1:A:15:ILE:O	1:A:19:ILE:HG13	2.17	0.45
1:A:33:ALA:HA	1:A:299:ALA:HB3	1.98	0.45
1:A:137:LEU:HB2	1:A:293:LEU:CB	2.45	0.45
1:A:240:LEU:HB2	1:A:246:PHE:CE1	2.52	0.45
1:B:7:ASP:O	1:B:8:ARG:HG3	2.17	0.45
1:B:108:GLN:NE2	1:C:112:GLN:OE1	2.50	0.45
1:B:450:SER:O	1:B:454:VAL:HG23	2.16	0.45
1:B:536:ARG:HH21	1:B:536:ARG:CG	2.25	0.45
1:B:841:MET:CE	1:B:863:SER:HB3	2.46	0.45
1:C:11:PHE:O	1:C:11:PHE:HD2	1.99	0.45
1:C:61:VAL:HG22	1:C:119:PRO:CD	2.45	0.45
1:C:350:LEU:HD21	1:C:988:PRO:HG2	1.98	0.45
1:C:358:PHE:CE1	1:C:977:MET:HG2	2.51	0.45
1:C:583:THR:H	1:C:586:ARG:HG3	1.82	0.45
1:C:883:VAL:HG13	1:C:884:VAL:N	2.32	0.45
1:D:747:ASN:OD1	1:F:214:VAL:HG11	2.16	0.45
1:D:850:LYS:HB2	1:D:850:LYS:HZ3	1.80	0.45
1:E:143:ILE:HG22	1:E:286:ALA:HB2	1.98	0.45
1:E:186:ILE:HG12	1:E:268:ILE:CD1	2.45	0.45
1:E:273:GLU:CD	1:E:770:LYS:HD2	2.37	0.45
1:E:407:ASP:OD2	1:E:940:LYS:HG2	2.17	0.45
1:F:157:TYR:HE1	1:F:161:ASN:CG	2.19	0.45
1:A:673:GLU:HG3	1:A:674:LEU:HB2	1.98	0.45
1:B:211:ASN:O	1:B:760:ASN:ND2	2.50	0.45
1:B:459:PHE:CZ	1:B:873:ALA:HA	2.52	0.45
1:B:507:GLU:HB3	1:B:518:ARG:CG	2.46	0.45
1:B:774:MET:SD	1:B:780:ARG:NH2	2.90	0.45
1:B:831:ALA:CB	1:B:837:THR:HA	2.47	0.45
1:B:1037:ASN:CB	1:B:1040:ILE:HG13	2.47	0.45
1:C:456:MET:HA	1:C:459:PHE:CD1	2.52	0.45
1:D:818:ARG:HH12	1:D:823:PRO:HG3	1.82	0.45
1:D:985:GLY:O	1:D:988:PRO:HD2	2.15	0.45
1:E:717:ARG:HG2	1:E:717:ARG:NH1	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:958:LYS:HG2	1:F:962:GLU:OE1	2.17	0.45
1:A:32:VAL:HG22	1:A:390:ILE:HG13	1.97	0.45
1:A:70:ASN:HA	1:C:168:ARG:HG2	1.98	0.45
1:A:73:ASP:HB2	1:A:106:GLN:HE22	1.81	0.45
1:A:112:GLN:HG2	1:B:112:GLN:OE1	2.17	0.45
1:A:344:LEU:HD23	1:A:402:ILE:CD1	2.46	0.45
1:B:355:MET:CE	1:B:410:ILE:HG13	2.47	0.45
1:B:577:GLN:HB3	1:B:662:MET:O	2.17	0.45
1:B:887:CYS:O	1:B:890:ALA:HB3	2.17	0.45
1:B:889:ALA:CA	1:B:898:PRO:HG3	2.46	0.45
1:B:895:TRP:O	1:B:898:PRO:HG2	2.17	0.45
1:C:273:GLU:CD	1:C:770:LYS:HZ3	2.20	0.45
1:C:450:SER:HA	1:C:475:VAL:HG22	1.99	0.45
1:C:468:ARG:O	1:C:471:SER:OG	2.35	0.45
1:C:482:VAL:O	1:C:486:LEU:HG	2.16	0.45
1:C:483:LEU:O	1:C:487:ILE:HD12	2.17	0.45
1:C:536:ARG:HD2	2:C:2000:LMT:H4O1	1.82	0.45
1:C:983:ILE:HD11	1:C:1012:VAL:HG23	1.99	0.45
1:D:26:ALA:O	1:D:30:LEU:HB2	2.15	0.45
1:D:342:LYS:HB2	1:D:342:LYS:HE3	1.62	0.45
1:D:431:THR:O	1:D:435:MET:HB2	2.17	0.45
1:D:614:GLY:O	1:D:621:GLY:N	2.41	0.45
1:E:11:PHE:CE1	1:F:890:ALA:HB1	2.52	0.45
1:E:279:ALA:HB3	1:E:286:ALA:O	2.16	0.45
1:F:78:MET:N	1:F:820:ASN:OD1	2.50	0.45
1:F:584:GLN:N	1:F:622:GLN:HB3	2.32	0.45
1:F:668:LEU:H	1:F:668:LEU:HG	1.30	0.45
1:F:759:VAL:HG23	1:F:760:ASN:H	1.81	0.45
1:F:916:ALA:HA	1:F:921:LEU:HD12	1.98	0.45
1:A:185:ARG:HD2	1:A:187:TRP:CH2	2.52	0.45
1:A:238:THR:HG22	1:A:239:ARG:O	2.17	0.45
1:A:737:GLN:OE1	1:C:250:LEU:HD23	2.17	0.45
1:B:20:MET:HG2	1:B:374:VAL:HA	1.97	0.45
1:B:790:TYR:HD1	1:B:800:PRO:HA	1.79	0.45
1:C:298:ASN:CG	1:C:301:ASP:HB2	2.37	0.45
1:C:335:ILE:O	1:C:339:GLU:HG2	2.16	0.45
1:C:562:SER:OG	1:C:563:PHE:N	2.50	0.45
1:D:847:LEU:C	1:D:849:SER:H	2.20	0.45
1:F:188:MET:CE	1:F:200:PRO:HG3	2.47	0.45
1:F:197:GLN:HA	1:F:798:MET:CE	2.47	0.45
1:F:321:LEU:HD22	1:F:321:LEU:HA	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:634:TRP:CD1	1:F:634:TRP:N	2.84	0.45
1:F:905:VAL:O	1:F:909:VAL:HG23	2.17	0.45
1:A:6:ILE:HG22	1:A:490:PRO:HB2	1.99	0.45
1:A:343:THR:HA	1:A:346:GLU:OE1	2.17	0.45
1:A:594:VAL:HG12	1:A:655:PHE:CE2	2.52	0.45
1:A:605:ASN:O	1:A:631:LEU:HD23	2.17	0.45
1:B:850:LYS:HD3	1:B:850:LYS:N	2.31	0.45
1:B:904:VAL:HG21	1:B:942:ALA:HB2	1.99	0.45
1:B:951:ASP:O	1:B:955:LYS:HG3	2.17	0.45
1:C:104:GLN:HG2	1:C:108:GLN:OE1	2.17	0.45
1:C:178:PHE:O	1:C:287:SER:OG	2.22	0.45
1:C:400:LEU:HD22	1:C:400:LEU:HA	1.43	0.45
1:D:69:MET:HE1	1:D:107:VAL:HG13	1.98	0.45
1:D:154:ILE:HG22	1:D:287:SER:CB	2.47	0.45
1:D:277:ILE:CD1	1:D:620:ARG:HE	2.30	0.45
1:E:41:PRO:O	1:E:94:PHE:HB2	2.17	0.45
1:E:184:MET:CE	1:E:243:THR:HG22	2.47	0.45
1:E:609:VAL:HG13	1:E:629:VAL:HG13	1.99	0.45
1:E:790:TYR:CB	1:E:798:MET:HG2	2.47	0.45
1:F:445:ILE:HG23	1:F:940:LYS:HG3	1.99	0.45
1:F:827:ILE:HD12	1:F:827:ILE:H	1.81	0.45
1:A:53:ASP:OD2	1:A:56:THR:OG1	2.34	0.45
1:A:337:ILE:HD11	1:A:392:THR:HA	1.99	0.45
1:A:339:GLU:O	1:A:342:LYS:HB3	2.17	0.45
1:A:355:MET:HB3	1:A:365:THR:HG23	1.99	0.45
1:A:376:LEU:HD23	1:A:376:LEU:HA	1.84	0.45
1:A:378:GLY:O	1:A:381:ALA:N	2.50	0.45
1:A:449:LEU:HB2	1:A:478:MET:SD	2.57	0.45
1:A:548:ILE:HG23	1:A:910:ILE:HD13	1.99	0.45
1:A:692:HIS:NE2	1:A:723:ASP:OD2	2.46	0.45
1:B:990:VAL:O	1:B:991:ILE:HD13	2.17	0.45
1:C:564:LEU:HD21	1:C:670:ALA:HB3	1.99	0.45
1:C:1038:GLU:CA	1:C:1039:ASP:HB2	2.47	0.45
1:D:21:LEU:HA	1:D:21:LEU:HD13	1.83	0.45
1:D:275:TYR:O	1:F:222:THR:OG1	2.33	0.45
1:D:324:VAL:HG12	1:D:325:TYR:H	1.82	0.45
1:F:356:TYR:O	1:F:358:PHE:N	2.50	0.45
1:F:459:PHE:CD2	1:F:876:LEU:HD13	2.52	0.45
1:A:125:GLN:NE2	1:A:125:GLN:HA	2.31	0.44
1:A:960:LEU:HD23	1:A:1031:ARG:HH11	1.82	0.44
1:B:106:GLN:O	1:B:110:LYS:HD3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:196:PHE:N	1:B:196:PHE:CD1	2.83	0.44
1:B:559:LEU:HD13	1:B:560:PRO:HD2	1.99	0.44
1:B:590:VAL:HA	1:B:593:GLU:OE2	2.17	0.44
1:B:778:LYS:HE3	1:B:779:TYR:OH	2.17	0.44
1:B:901:VAL:HG23	1:B:942:ALA:CB	2.35	0.44
1:C:24:GLY:HA2	1:C:27:ILE:HG23	1.99	0.44
1:C:36:PRO:HG2	1:C:38:ILE:HG13	1.97	0.44
1:C:69:MET:HB3	1:C:72:ILE:HD11	1.98	0.44
1:D:65:ILE:HD13	1:D:114:ALA:CB	2.46	0.44
1:D:154:ILE:HG22	1:D:287:SER:HB3	1.99	0.44
1:D:400:LEU:CD1	1:D:933:THR:HG21	2.48	0.44
1:E:300:LEU:HD23	1:E:334:LYS:HE3	1.99	0.44
1:A:42:ALA:HB3	1:A:132:SER:O	2.17	0.44
1:A:505:HIS:O	1:A:507:GLU:N	2.45	0.44
1:A:754:TRP:CZ2	1:A:785:ASP:HB2	2.51	0.44
1:A:959:GLY:CA	1:A:1039:ASP:H	2.24	0.44
1:B:21:LEU:HA	1:B:21:LEU:HD23	1.63	0.44
1:B:527:TYR:O	1:B:530:SER:HB3	2.17	0.44
1:B:549:VAL:O	1:B:552:MET:HB3	2.16	0.44
1:B:702:LEU:HA	1:B:705:GLU:HB2	1.98	0.44
1:B:707:ALA:HB2	1:B:716:VAL:HB	1.99	0.44
1:C:3:ASN:ND2	1:C:435:MET:SD	2.84	0.44
1:C:49:TYR:HD2	1:C:57:VAL:HG12	1.81	0.44
1:C:58:GLN:NE2	1:C:818:ARG:HD2	2.31	0.44
1:C:189:ASN:O	1:C:193:LEU:HB2	2.18	0.44
1:C:542:LEU:O	1:C:546:LEU:HD13	2.16	0.44
1:C:668:LEU:HD23	1:C:668:LEU:H	1.82	0.44
1:D:211:ASN:O	1:D:760:ASN:ND2	2.50	0.44
1:D:747:ASN:O	1:D:750:LEU:N	2.50	0.44
1:D:974:PRO:HA	1:D:977:MET:HE2	1.99	0.44
1:E:699:ARG:HH11	1:E:825:MET:HE1	1.82	0.44
1:E:990:VAL:HG22	1:E:1004:GLY:C	2.37	0.44
1:F:3:ASN:OD1	1:F:3:ASN:N	2.50	0.44
1:F:971:ARG:HG2	1:F:974:PRO:CG	2.47	0.44
1:A:72:ILE:HD11	1:A:110:LYS:HB2	1.99	0.44
1:A:350:LEU:HD21	1:A:984:LEU:HB3	1.98	0.44
1:C:40:PRO:CB	1:C:94:PHE:O	2.66	0.44
1:C:376:LEU:O	1:C:378:GLY:N	2.50	0.44
1:C:911:GLY:HA3	1:C:1013:THR:OG1	2.16	0.44
1:C:926:TYR:CE1	1:C:999:ALA:HB1	2.51	0.44
1:D:186:ILE:HG12	1:D:268:ILE:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:594:VAL:HG22	1:D:655:PHE:CE2	2.53	0.44
1:E:78:MET:HB3	1:E:820:ASN:HA	1.99	0.44
1:E:110:LYS:HD3	1:E:110:LYS:HA	1.73	0.44
1:E:668:LEU:H	1:E:668:LEU:CD2	2.19	0.44
1:E:875:SER:O	1:E:879:ILE:HD13	2.17	0.44
1:F:131:LYS:HB3	1:F:131:LYS:HE2	1.81	0.44
1:F:203:VAL:O	1:F:206:ALA:HB3	2.17	0.44
1:F:1034:SER:OG	1:F:1037:ASN:HB2	2.16	0.44
1:A:711:ASP:C	1:A:835:LYS:HE3	2.37	0.44
1:A:727:PHE:HB2	1:A:809:TRP:CZ3	2.52	0.44
1:B:122:VAL:O	1:B:125:GLN:N	2.47	0.44
1:B:353:LEU:HD22	1:B:353:LEU:HA	1.64	0.44
1:B:544:LEU:HD22	1:B:547:ILE:HB	1.99	0.44
1:B:571:VAL:O	1:B:668:LEU:HD21	2.18	0.44
1:B:948:PHE:HE1	1:B:971:ARG:HH21	1.65	0.44
1:C:99:ASP:CB	1:C:102:ILE:HB	2.46	0.44
1:C:727:PHE:HB2	1:C:809:TRP:CZ3	2.53	0.44
1:D:559:LEU:HD22	1:D:923:ASN:H	1.82	0.44
1:D:676:THR:H	1:D:862:MET:HE2	1.81	0.44
1:E:792:ARG:HG2	1:E:792:ARG:HH11	1.81	0.44
1:A:21:LEU:HA	1:A:21:LEU:HD13	1.67	0.44
1:A:27:ILE:HA	1:A:27:ILE:HD13	1.59	0.44
1:A:115:MET:SD	1:A:123:GLN:HG2	2.58	0.44
1:A:161:ASN:HB2	1:A:162:MET:SD	2.57	0.44
1:A:194:ASN:OD1	1:A:798:MET:HG3	2.18	0.44
1:A:622:GLN:HE21	1:A:622:GLN:HB2	1.57	0.44
1:B:81:ASN:HD22	1:B:815:ARG:HH21	1.65	0.44
1:B:401:ALA:HB2	1:B:474:ILE:HG23	1.99	0.44
1:B:923:ASN:ND2	1:B:923:ASN:C	2.71	0.44
1:C:20:MET:CG	1:C:374:VAL:HA	2.47	0.44
1:C:394:THR:CB	1:C:469:GLN:HB3	2.47	0.44
1:C:555:LEU:HD23	1:C:555:LEU:O	2.18	0.44
1:C:682:PHE:HB2	1:C:859:TRP:CZ3	2.52	0.44
1:D:4:PHE:O	1:D:8:ARG:HD2	2.18	0.44
1:D:156:ASP:HA	1:D:181:GLN:HA	2.00	0.44
1:D:163:LYS:HG3	1:D:177:LEU:HB2	1.99	0.44
1:D:951:ASP:CG	1:D:955:LYS:HZ1	2.19	0.44
1:E:675:GLY:HA2	1:E:862:MET:SD	2.57	0.44
1:E:705:GLU:HB3	1:E:847:LEU:HD22	1.98	0.44
1:F:30:LEU:HD13	1:F:384:ALA:HB2	1.99	0.44
1:A:203:VAL:HG12	1:A:207:ILE:HD11	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:941:ASN:HD22	1:A:975:ILE:HG23	1.83	0.44
1:B:76:MET:HE1	1:B:865:GLN:HE21	1.82	0.44
1:B:105:VAL:HG13	1:C:108:GLN:HE21	1.83	0.44
1:B:420:MET:CE	1:B:427:PRO:HA	2.48	0.44
1:B:467:TYR:HE2	1:B:925:VAL:HG23	1.83	0.44
1:B:492:LEU:HD22	1:B:496:MET:SD	2.58	0.44
1:B:527:TYR:CD2	1:B:972:LEU:HG	2.52	0.44
1:B:695:LEU:O	1:B:698:ALA:HB3	2.18	0.44
1:C:25:LEU:HD23	1:C:28:LEU:CD1	2.47	0.44
1:C:25:LEU:HA	1:C:28:LEU:HD12	2.00	0.44
1:C:262:LEU:CG	1:C:268:ILE:HD11	2.47	0.44
1:D:538:THR:HG23	1:D:542:LEU:HD13	2.00	0.44
1:E:545:TYR:HE2	1:E:907:LEU:CD1	2.30	0.44
1:E:565:PRO:HG2	1:E:998:GLY:C	2.38	0.44
1:E:586:ARG:HE	1:E:586:ARG:HB2	1.58	0.44
1:E:787:GLY:C	1:E:789:TRP:H	2.21	0.44
1:E:992:SER:C	1:E:997:SER:HG	2.21	0.44
1:E:1036:LYS:HA	1:E:1038:GLU:HG2	2.00	0.44
1:F:38:ILE:CG2	1:F:462:SER:HB3	2.39	0.44
1:F:483:LEU:HA	1:F:483:LEU:HD23	1.61	0.44
1:F:623:ASN:OD1	1:F:623:ASN:N	2.42	0.44
1:F:773:VAL:HG23	1:F:773:VAL:O	2.18	0.44
1:F:792:ARG:HG2	1:F:792:ARG:HH11	1.82	0.44
1:A:445:ILE:HG21	1:A:940:LYS:HZ3	1.83	0.44
1:A:781:MET:HB3	1:C:228:GLN:HE21	1.82	0.44
1:A:1035:ARG:HG3	1:A:1036:LYS:H	1.83	0.44
1:B:62:THR:O	1:B:66:GLU:HG2	2.18	0.44
1:B:105:VAL:CG2	1:C:105:VAL:HG13	2.48	0.44
1:B:163:LYS:NZ	1:B:163:LYS:CB	2.80	0.44
1:B:447:MET:HB3	1:B:887:CYS:HG	1.81	0.44
1:C:157:TYR:CE2	1:C:161:ASN:CG	2.88	0.44
1:C:253:VAL:HG13	1:C:259:ARG:HD3	2.00	0.44
1:C:912:ALA:HB2	1:C:1010:GLY:HA3	2.00	0.44
1:D:199:THR:HB	1:D:749:THR:HG21	1.98	0.44
1:D:418:ARG:CZ	1:D:970:MET:HE2	2.48	0.44
1:D:699:ARG:NH2	1:D:722:GLU:OE2	2.34	0.44
1:D:819:TYR:O	1:D:820:ASN:HB2	2.17	0.44
1:E:559:LEU:HA	1:E:560:PRO:HD2	1.47	0.44
1:E:948:PHE:CE2	1:E:971:ARG:HD3	2.52	0.44
1:E:958:LYS:O	1:E:1040:ILE:HG21	2.18	0.44
1:E:987:MET:HB3	1:E:988:PRO:HD3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:945:ILE:HG12	1:F:971:ARG:NH2	2.33	0.44
1:A:6:ILE:HG13	1:A:7:ASP:N	2.32	0.44
1:A:240:LEU:HD11	1:A:249:ILE:HD11	1.99	0.44
1:A:502:LYS:H	1:A:502:LYS:HG3	1.60	0.44
1:A:572:PHE:CE1	1:A:648:THR:HG22	2.53	0.44
1:A:787:GLY:O	1:A:789:TRP:N	2.51	0.44
1:A:945:ILE:HG13	1:A:971:ARG:NH2	2.32	0.44
1:B:115:MET:SD	1:B:123:GLN:HG2	2.58	0.44
1:B:361:ASN:O	1:B:365:THR:N	2.39	0.44
1:B:398:MET:HE3	1:B:398:MET:HB3	1.82	0.44
1:B:692:HIS:CD2	1:B:816:LEU:HD22	2.53	0.44
1:B:754:TRP:CZ2	1:B:780:ARG:HA	2.53	0.44
1:B:996:GLY:O	1:B:998:GLY:N	2.50	0.44
1:B:1015:THR:O	1:B:1017:LEU:N	2.51	0.44
1:C:534:ILE:HG22	1:C:541:TYR:CZ	2.53	0.44
1:C:727:PHE:CD1	1:C:809:TRP:CZ3	3.05	0.44
1:C:774:MET:HB3	1:C:774:MET:HE2	1.48	0.44
1:C:924:ASP:N	1:C:924:ASP:OD2	2.45	0.44
1:D:244:GLU:OE1	1:D:248:LYS:HE2	2.18	0.44
1:D:937:LEU:O	1:D:940:LYS:HB3	2.18	0.44
1:D:968:VAL:CG2	1:D:1023:PRO:HG3	2.47	0.44
1:D:1041:GLU:CB	1:D:1042:HIS:HA	2.48	0.44
1:E:15:ILE:O	1:E:19:ILE:HG13	2.17	0.44
1:E:352:PHE:CD2	1:E:353:LEU:HD23	2.48	0.44
1:F:101:ASP:OD1	1:F:131:LYS:HE3	2.18	0.44
1:F:235:ILE:HG22	1:F:236:ALA:O	2.16	0.44
1:F:658:ILE:O	1:F:658:ILE:HG13	2.17	0.44
1:A:63:GLN:OE1	1:C:768:VAL:HG23	2.17	0.44
1:B:11:PHE:O	1:B:15:ILE:HG13	2.18	0.44
1:B:14:VAL:O	1:B:18:ILE:HB	2.18	0.44
1:B:364:ALA:O	1:B:368:PRO:HD3	2.18	0.44
1:C:4:PHE:CZ	1:C:436:GLY:HA3	2.53	0.44
1:C:373:PRO:O	1:C:377:LEU:HB2	2.18	0.44
1:C:375:VAL:CG1	1:C:477:ALA:HA	2.48	0.44
1:C:415:ASN:O	1:C:419:VAL:HG22	2.18	0.44
1:D:112:GLN:HA	1:D:115:MET:HB2	1.99	0.44
1:D:591:LEU:CD1	1:D:613:ASN:HB2	2.48	0.44
1:D:775:SER:OG	1:D:780:ARG:HD3	2.17	0.44
1:D:873:ALA:N	1:D:874:PRO:HD2	2.33	0.44
1:E:415:ASN:OD1	1:E:434:SER:HB2	2.17	0.44
1:E:443:VAL:O	1:E:447:MET:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:559:LEU:HD22	1:E:559:LEU:HA	1.80	0.44
1:F:185:ARG:HD3	1:F:185:ARG:HA	1.79	0.44
1:F:400:LEU:O	1:F:404:LEU:HD22	2.18	0.44
1:F:982:PHE:O	1:F:985:GLY:N	2.51	0.44
1:A:53:ASP:O	1:A:56:THR:HB	2.17	0.43
1:A:58:GLN:O	1:A:63:GLN:HG3	2.18	0.43
1:A:169:THR:HG21	1:A:306:ILE:HD11	1.99	0.43
1:A:358:PHE:C	1:A:360:GLN:HE21	2.20	0.43
1:A:417:GLU:OE1	1:A:497:LEU:HD21	2.18	0.43
1:A:509:LYS:O	1:A:510:LYS:HB2	2.17	0.43
1:B:438:ILE:HD12	1:B:442:LEU:HG	2.00	0.43
1:B:1015:THR:OG1	1:B:1016:VAL:N	2.51	0.43
1:C:136:PHE:CE2	1:C:292:LYS:HG3	2.53	0.43
1:C:160:ALA:HA	1:C:767:ARG:CZ	2.47	0.43
1:C:478:MET:O	1:C:482:VAL:HG23	2.18	0.43
1:C:520:PHE:CE2	1:C:973:ARG:HG3	2.53	0.43
1:C:775:SER:OG	1:C:776:GLU:O	2.36	0.43
1:C:941:ASN:ND2	1:C:975:ILE:HG23	2.33	0.43
1:D:23:GLY:CA	1:D:377:LEU:O	2.66	0.43
1:D:102:ILE:HD13	1:D:102:ILE:HA	1.88	0.43
1:D:178:PHE:HB2	1:D:288:GLY:H	1.82	0.43
1:D:277:ILE:HD13	1:D:620:ARG:HE	1.83	0.43
1:D:793:ALA:HB3	1:D:795:ASP:OD2	2.18	0.43
1:E:146:ASP:OD2	1:E:146:ASP:N	2.45	0.43
1:E:182:TYR:HB2	1:E:769:LYS:NZ	2.33	0.43
1:E:520:PHE:CE2	1:E:973:ARG:HG3	2.51	0.43
1:E:523:SER:O	1:E:526:HIS:HB2	2.18	0.43
1:E:552:MET:HB2	1:E:910:ILE:CG1	2.48	0.43
1:E:1026:PHE:CD2	1:E:1026:PHE:C	2.92	0.43
1:F:4:PHE:HB3	1:F:432:ARG:HH22	1.82	0.43
1:A:123:GLN:O	1:B:116:PRO:HB2	2.17	0.43
1:A:354:VAL:HG21	1:A:981:ALA:HA	2.00	0.43
1:A:443:VAL:O	1:A:447:MET:HG2	2.18	0.43
1:A:459:PHE:CB	1:A:464:GLY:HA2	2.48	0.43
1:A:515:TRP:HB3	1:A:519:MET:HE1	2.00	0.43
1:A:776:GLU:HG2	1:A:777:ALA:H	1.81	0.43
1:A:845:GLU:O	1:A:849:SER:HB2	2.18	0.43
1:A:1011:MET:O	1:A:1015:THR:HG23	2.18	0.43
1:B:188:MET:HE1	1:B:200:PRO:HG3	2.00	0.43
1:B:340:VAL:HG12	1:B:395:MET:SD	2.57	0.43
1:B:411:VAL:HG21	1:B:944:LEU:HD21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:564:LEU:HD23	1:B:670:ALA:HB3	2.01	0.43
1:B:574:THR:HA	1:B:665:ALA:HA	2.00	0.43
1:B:575:MET:HE2	1:B:575:MET:HB2	1.79	0.43
1:B:792:ARG:NH1	1:B:793:ALA:O	2.52	0.43
1:B:891:LEU:HD12	1:B:891:LEU:HA	1.61	0.43
1:C:162:MET:O	1:C:164:ASP:N	2.51	0.43
1:C:230:LEU:HG	1:C:231:ASN:N	2.32	0.43
1:D:34:GLN:HG3	1:D:333:VAL:HG22	1.99	0.43
1:D:36:PRO:O	1:D:38:ILE:HG23	2.19	0.43
1:D:157:TYR:CE2	1:D:161:ASN:CG	2.91	0.43
1:D:641:GLU:HA	1:D:646:ALA:HB3	2.00	0.43
1:D:957:GLY:HA2	1:D:1042:HIS:CG	2.53	0.43
1:E:75:LEU:HA	1:E:94:PHE:CD1	2.52	0.43
1:E:382:VAL:HG11	1:E:476:SER:OG	2.18	0.43
1:E:704:ALA:O	1:E:708:LYS:HG3	2.17	0.43
1:A:598:TYR:CE2	1:A:629:VAL:HG21	2.53	0.43
1:A:888:LEU:HB3	1:A:898:PRO:HG3	1.99	0.43
1:B:194:ASN:OD1	1:B:790:TYR:HD2	2.01	0.43
1:B:531:VAL:HG21	1:B:968:VAL:HG11	2.00	0.43
1:B:680:PHE:CD1	1:B:859:TRP:CH2	3.06	0.43
1:B:702:LEU:O	1:B:705:GLU:N	2.51	0.43
1:C:34:GLN:HG3	1:C:333:VAL:HG13	2.00	0.43
1:C:679:GLY:CA	1:C:837:THR:HG21	2.38	0.43
1:C:705:GLU:OE2	1:C:851:LEU:HD21	2.18	0.43
1:D:137:LEU:O	1:D:329:THR:HG23	2.18	0.43
1:D:470:PHE:O	1:D:474:ILE:HG13	2.19	0.43
1:E:953:MET:HE2	1:E:963:ALA:HB3	2.00	0.43
1:F:156:ASP:OD1	1:F:765:ARG:NH2	2.51	0.43
1:A:577:GLN:OE1	1:A:624:THR:HG23	2.19	0.43
1:A:742:SER:O	1:A:746:ILE:HG23	2.19	0.43
1:B:190:PRO:HB3	1:B:789:TRP:CZ3	2.53	0.43
1:B:559:LEU:HA	1:B:560:PRO:HD2	1.55	0.43
1:B:680:PHE:CD1	1:B:859:TRP:HH2	2.37	0.43
1:B:948:PHE:O	1:B:952:LEU:HG	2.17	0.43
1:C:372:VAL:O	1:C:373:PRO:C	2.56	0.43
1:D:11:PHE:CD2	1:E:890:ALA:HB1	2.53	0.43
1:D:720:GLY:C	1:D:721:LEU:HD22	2.39	0.43
1:E:54:ALA:HB1	1:E:816:LEU:HG	2.00	0.43
1:E:518:ARG:O	1:E:522:LYS:HG3	2.18	0.43
1:E:556:PHE:HB2	1:E:913:LEU:HD11	2.00	0.43
1:F:57:VAL:O	1:F:62:THR:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:307:ARG:NH1	1:F:307:ARG:HG3	2.31	0.43
1:F:414:GLU:HG2	1:F:973:ARG:NH2	2.32	0.43
1:F:469:GLN:O	1:F:472:ILE:HG22	2.18	0.43
1:F:989:LEU:HD23	1:F:989:LEU:HA	1.58	0.43
1:A:680:PHE:HB2	1:A:859:TRP:CZ3	2.45	0.43
1:A:1038:GLU:HB3	1:A:1041:GLU:HB2	1.99	0.43
1:B:484:VAL:O	1:B:489:THR:HG23	2.17	0.43
1:B:736:ALA:HB1	1:B:741:VAL:HG23	1.99	0.43
1:B:971:ARG:HA	1:B:971:ARG:HD2	1.59	0.43
1:C:65:ILE:HG23	1:C:111:LEU:HA	2.00	0.43
1:C:527:TYR:HE1	1:C:968:VAL:HG12	1.83	0.43
1:C:531:VAL:HA	1:C:534:ILE:HD11	2.00	0.43
1:C:699:ARG:HD2	1:C:827:ILE:CD1	2.47	0.43
1:C:1037:ASN:O	1:C:1038:GLU:HB2	2.17	0.43
1:E:452:VAL:HG12	1:E:884:VAL:HG21	1.99	0.43
1:E:485:ALA:O	1:E:486:LEU:HD23	2.19	0.43
1:F:36:PRO:HG3	1:F:469:GLN:CG	2.49	0.43
1:F:154:ILE:HG22	1:F:287:SER:HB3	2.00	0.43
1:A:157:TYR:HE2	1:A:161:ASN:ND2	2.17	0.43
1:A:185:ARG:HD3	1:A:185:ARG:HA	1.74	0.43
1:A:251:LEU:HD11	1:A:262:LEU:HA	1.99	0.43
1:A:298:ASN:ND2	1:A:301:ASP:HB2	2.34	0.43
1:A:470:PHE:O	1:A:474:ILE:HG13	2.19	0.43
1:A:873:ALA:N	1:A:874:PRO:HD2	2.33	0.43
1:B:68:ASN:OD1	1:B:117:LEU:HD23	2.19	0.43
1:B:80:SER:O	1:B:817:GLU:HA	2.18	0.43
1:B:185:ARG:HD3	1:B:185:ARG:HA	1.75	0.43
1:B:427:PRO:O	1:B:431:THR:OG1	2.22	0.43
1:B:615:ALA:CB	1:B:620:ARG:HA	2.48	0.43
1:B:885:PHE:CE1	1:B:899:PHE:CE1	3.06	0.43
1:B:892:TYR:O	1:B:893:GLU:HB2	2.17	0.43
1:C:594:VAL:HA	1:C:655:PHE:CE2	2.54	0.43
1:C:600:THR:O	1:C:603:LYS:HG3	2.18	0.43
1:C:691:GLY:C	1:C:694:LYS:HG2	2.38	0.43
1:D:428:LYS:H	1:D:428:LYS:HE3	1.82	0.43
1:D:574:THR:OG1	1:D:598:TYR:HE2	2.02	0.43
1:D:671:ILE:C	1:D:673:GLU:N	2.71	0.43
1:D:776:GLU:HB3	1:D:779:TYR:CE1	2.53	0.43
1:F:249:ILE:O	1:F:261:LEU:HA	2.19	0.43
1:F:672:VAL:O	1:F:675:GLY:N	2.50	0.43
1:F:905:VAL:HG13	1:F:935:ILE:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:966:ASP:O	1:A:969:ARG:HB3	2.19	0.43
1:A:1028:VAL:O	1:A:1032:ARG:NH1	2.47	0.43
1:B:105:VAL:HA	1:C:109:ASN:HD21	1.83	0.43
1:B:402:ILE:O	1:B:405:LEU:HB2	2.19	0.43
1:B:515:TRP:O	1:B:517:ASN:N	2.52	0.43
1:C:197:GLN:HA	1:C:798:MET:HE2	2.01	0.43
1:C:367:ILE:HD13	1:C:367:ILE:N	2.33	0.43
1:C:932:LEU:O	1:C:935:ILE:HG23	2.19	0.43
1:D:102:ILE:HD12	1:F:101:ASP:HB3	1.99	0.43
1:D:577:GLN:OE1	1:D:624:THR:HG22	2.19	0.43
1:E:187:TRP:HA	1:E:774:MET:O	2.19	0.43
1:E:235:ILE:HG22	1:E:236:ALA:H	1.84	0.43
1:E:240:LEU:HD12	1:E:246:PHE:CD2	2.54	0.43
1:F:181:GLN:HG2	1:F:182:TYR:N	2.33	0.43
1:F:326:PRO:O	1:F:630:SER:HB2	2.18	0.43
1:F:909:VAL:HG12	1:F:913:LEU:HG	2.01	0.43
1:F:968:VAL:HA	1:F:971:ARG:HH22	1.83	0.43
1:A:362:PHE:CD2	1:A:362:PHE:N	2.87	0.43
1:A:471:SER:O	1:A:475:VAL:HG23	2.19	0.43
1:A:699:ARG:HG2	1:A:703:LEU:CD1	2.49	0.43
1:B:255:GLN:CD	1:B:255:GLN:H	2.22	0.43
1:B:368:PRO:HG3	1:B:413:VAL:HG21	2.01	0.43
1:B:462:SER:O	1:B:466:ILE:HG13	2.19	0.43
1:B:562:SER:OG	1:B:563:PHE:N	2.52	0.43
1:B:838:GLY:O	1:B:841:MET:HB2	2.19	0.43
1:C:40:PRO:HB2	1:C:94:PHE:O	2.19	0.43
1:C:136:PHE:CD2	1:C:292:LYS:HG3	2.54	0.43
1:C:139:VAL:O	1:C:326:PRO:HD2	2.19	0.43
1:C:154:ILE:CG2	1:C:287:SER:HB3	2.48	0.43
1:C:563:PHE:HB2	1:C:866:GLU:CB	2.48	0.43
1:C:572:PHE:HE2	1:C:631:LEU:HD21	1.84	0.43
1:C:743:ILE:HA	1:C:746:ILE:HG23	2.00	0.43
1:C:922:THR:O	1:C:924:ASP:N	2.52	0.43
1:C:961:ILE:H	1:C:961:ILE:CD1	2.25	0.43
1:D:131:LYS:HZ3	1:D:131:LYS:HB2	1.84	0.43
1:D:360:GLN:HE22	1:D:517:ASN:ND2	2.00	0.43
1:D:362:PHE:HD2	1:D:363:ARG:HH12	1.67	0.43
1:E:49:TYR:HB3	1:E:57:VAL:HG12	1.99	0.43
1:E:390:ILE:HG23	1:E:395:MET:SD	2.59	0.43
1:E:448:VAL:HG13	1:E:884:VAL:CG1	2.48	0.43
1:E:544:LEU:HA	1:E:547:ILE:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:347:ALA:CB	1:F:402:ILE:HD12	2.46	0.43
1:F:845:GLU:HG2	1:F:857:TYR:CE1	2.54	0.43
1:F:876:LEU:HD12	1:F:876:LEU:O	2.19	0.43
1:A:34:GLN:NE2	1:A:333:VAL:HG22	2.34	0.43
1:A:536:ARG:HD3	2:A:2000:LMT:H4B	2.01	0.43
1:A:713:LEU:HD11	1:A:843:LEU:HD11	2.01	0.43
1:A:1035:ARG:HG3	1:A:1036:LYS:N	2.34	0.43
1:B:273:GLU:CD	1:B:770:LYS:HD2	2.39	0.43
1:B:535:LEU:HD22	1:B:1027:VAL:HG21	1.99	0.43
1:B:849:SER:HB3	1:B:850:LYS:HD3	2.01	0.43
1:C:39:ALA:HA	1:C:40:PRO:HD2	1.76	0.43
1:C:225:VAL:HG22	1:C:226:LYS:HD3	2.00	0.43
1:C:356:TYR:HA	1:C:365:THR:HG21	2.00	0.43
1:D:243:THR:O	1:D:246:PHE:HB2	2.19	0.43
1:D:703:LEU:O	1:D:703:LEU:HD22	2.19	0.43
1:D:931:LEU:HD22	1:D:931:LEU:HA	1.76	0.43
1:E:455:PRO:O	1:E:876:LEU:HD13	2.18	0.43
1:F:27:ILE:HA	1:F:30:LEU:HD22	2.00	0.43
1:F:62:THR:HG21	1:F:82:SER:OG	2.19	0.43
1:F:754:TRP:CZ3	1:F:780:ARG:HA	2.53	0.43
1:A:78:MET:HE2	1:C:168:ARG:NH1	2.34	0.43
1:A:690:LEU:HD22	1:A:694:LYS:NZ	2.34	0.43
1:A:695:LEU:HA	1:A:695:LEU:HD23	1.75	0.43
1:A:768:VAL:HG11	1:B:63:GLN:HB3	2.01	0.43
1:B:899:PHE:O	1:B:903:LEU:HD22	2.19	0.43
1:C:282:ASN:OD1	1:C:599:LEU:HD11	2.19	0.43
1:C:393:LEU:H	1:C:393:LEU:CD2	2.31	0.43
1:C:506:GLY:O	1:C:508:GLY:N	2.51	0.43
1:C:736:ALA:HB1	1:C:741:VAL:CG1	2.48	0.43
1:C:921:LEU:HD13	1:C:1002:ALA:HA	2.01	0.43
1:E:688:ALA:O	1:E:690:LEU:N	2.50	0.43
1:E:971:ARG:HA	1:E:971:ARG:HD2	1.39	0.43
1:F:913:LEU:HD23	1:F:927:PHE:HZ	1.84	0.43
1:F:948:PHE:O	1:F:952:LEU:HG	2.19	0.43
1:A:327:TYR:CD2	1:A:327:TYR:C	2.92	0.42
1:A:1033:PHE:CG	1:A:1034:SER:N	2.87	0.42
1:B:450:SER:N	1:B:478:MET:SD	2.92	0.42
1:B:598:TYR:CE2	1:B:629:VAL:HG21	2.53	0.42
1:B:888:LEU:HD23	1:B:888:LEU:HA	1.66	0.42
1:C:104:GLN:HE21	1:C:131:LYS:CG	2.32	0.42
1:C:190:PRO:HB3	1:C:789:TRP:CZ2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:298:ASN:CB	1:C:301:ASP:HB2	2.49	0.42
1:C:400:LEU:HG	1:C:933:THR:OG1	2.19	0.42
1:C:488:LEU:O	1:C:491:ALA:N	2.52	0.42
1:C:953:MET:O	1:C:957:GLY:HA2	2.18	0.42
1:D:62:THR:O	1:D:66:GLU:HG3	2.19	0.42
1:D:435:MET:HA	1:D:435:MET:CE	2.49	0.42
1:D:618:ALA:HB1	1:D:815:ARG:CZ	2.49	0.42
1:D:674:LEU:HD23	1:D:674:LEU:HA	1.84	0.42
1:D:790:TYR:HA	1:D:799:VAL:O	2.19	0.42
1:E:578:LEU:O	1:E:623:ASN:HB2	2.19	0.42
1:E:978:THR:HG22	1:E:979:SER:N	2.33	0.42
1:F:157:TYR:CE1	1:F:161:ASN:CG	2.92	0.42
1:F:186:ILE:CB	1:F:773:VAL:HG12	2.48	0.42
1:F:228:GLN:NE2	1:F:230:LEU:O	2.52	0.42
1:A:284:GLN:HA	1:A:285:PRO:HD3	1.90	0.42
1:A:538:THR:HG23	1:A:539:GLY:H	1.83	0.42
1:A:818:ARG:NH2	1:A:823:PRO:HD3	2.35	0.42
1:A:853:THR:O	1:A:853:THR:OG1	2.36	0.42
1:A:900:SER:CA	1:A:1029:VAL:HG21	2.48	0.42
1:A:984:LEU:HD22	1:A:984:LEU:HA	1.50	0.42
1:B:445:ILE:HD12	1:B:449:LEU:HD22	2.00	0.42
1:B:840:ALA:O	1:B:844:MET:HG2	2.19	0.42
1:B:877:TYR:HD2	1:B:877:TYR:HA	1.38	0.42
1:C:21:LEU:HD23	1:C:21:LEU:HA	1.95	0.42
1:C:293:LEU:HD22	1:C:294:ALA:H	1.84	0.42
1:C:388:PHE:CZ	1:C:468:ARG:HD3	2.53	0.42
1:C:906:PRO:O	1:C:910:ILE:HG22	2.19	0.42
1:C:967:ALA:HA	1:C:970:MET:HE1	2.01	0.42
1:D:364:ALA:CB	1:D:497:LEU:HD13	2.49	0.42
1:D:404:LEU:HD21	1:D:449:LEU:HD21	2.01	0.42
1:E:122:VAL:O	1:E:124:GLN:N	2.52	0.42
1:E:536:ARG:NH2	2:E:2000:LMT:C4B	2.76	0.42
1:E:638:PRO:HB2	1:E:639:GLY:H	1.66	0.42
1:E:932:LEU:O	1:E:935:ILE:HB	2.19	0.42
1:E:1027:VAL:HG23	1:E:1028:VAL:N	2.34	0.42
1:F:452:VAL:HG12	1:F:884:VAL:HG21	2.01	0.42
1:A:198:LEU:HD22	1:A:202:ASP:CB	2.49	0.42
1:A:222:THR:OG1	1:B:275:TYR:O	2.37	0.42
1:A:586:ARG:O	1:A:589:LYS:HB3	2.20	0.42
1:A:778:LYS:HG3	1:A:779:TYR:CE2	2.54	0.42
1:A:800:PRO:HG2	1:A:803:ALA:CB	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:930:GLY:O	1:A:933:THR:HG22	2.19	0.42
1:B:222:THR:HA	1:B:224:PRO:CD	2.46	0.42
1:B:416:VAL:HG23	1:B:431:THR:HA	2.00	0.42
1:B:452:VAL:C	1:B:455:PRO:HD2	2.40	0.42
1:B:560:PRO:O	1:B:922:THR:HG23	2.19	0.42
1:B:913:LEU:HD23	1:B:927:PHE:HZ	1.84	0.42
1:B:926:TYR:CD1	1:B:999:ALA:HA	2.55	0.42
1:C:152:GLU:CD	1:C:152:GLU:H	2.23	0.42
1:C:197:GLN:O	1:C:792:ARG:HD3	2.20	0.42
1:C:214:VAL:HG12	1:C:215:ALA:O	2.19	0.42
1:C:277:ILE:HD12	1:C:620:ARG:NH1	2.34	0.42
1:C:281:PHE:HD2	1:C:610:PHE:HE1	1.65	0.42
1:C:326:PRO:HA	1:C:630:SER:OG	2.18	0.42
1:C:714:THR:CB	1:C:832:ALA:HA	2.49	0.42
1:D:136:PHE:HE2	1:D:290:GLY:HA3	1.85	0.42
1:D:894:SER:OG	1:D:897:ILE:HG13	2.20	0.42
1:E:1037:ASN:HA	1:E:1038:GLU:HB2	2.01	0.42
1:F:99:ASP:HB3	1:F:102:ILE:CG2	2.50	0.42
1:F:307:ARG:NH1	1:F:307:ARG:O	2.52	0.42
1:F:619:GLY:O	1:F:624:THR:HG21	2.19	0.42
1:B:524:THR:HA	1:B:527:TYR:HB3	2.02	0.42
1:B:527:TYR:CD1	1:B:1020:PHE:HE1	2.36	0.42
1:B:709:HIS:HB2	1:B:713:LEU:HD12	2.01	0.42
1:B:778:LYS:HG3	1:B:779:TYR:CE2	2.54	0.42
1:D:65:ILE:C	1:D:67:GLN:H	2.22	0.42
1:D:234:ILE:HG23	1:E:729:ILE:HD13	2.00	0.42
1:D:250:LEU:HD11	1:D:259:ARG:HB3	1.99	0.42
1:D:407:ASP:OD2	1:D:978:THR:HG21	2.20	0.42
1:F:26:ALA:O	1:F:30:LEU:HD13	2.19	0.42
1:F:315:PRO:C	1:F:317:PHE:H	2.22	0.42
1:F:404:LEU:HD11	1:F:937:LEU:HD11	2.01	0.42
1:F:478:MET:O	1:F:481:SER:N	2.53	0.42
1:A:559:LEU:HD23	1:A:560:PRO:N	2.34	0.42
1:B:78:MET:HB3	1:B:820:ASN:HA	2.00	0.42
1:B:507:GLU:O	1:B:508:GLY:C	2.57	0.42
1:B:610:PHE:O	1:B:627:ALA:HA	2.20	0.42
1:B:727:PHE:CE1	1:B:807:SER:HB2	2.55	0.42
1:B:889:ALA:HB1	1:B:894:SER:O	2.20	0.42
1:B:892:TYR:CD2	1:B:897:ILE:HB	2.55	0.42
1:B:1013:THR:O	1:B:1017:LEU:HB2	2.20	0.42
1:C:74:ASN:HB3	1:C:95:GLU:CB	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:510:LYS:HE2	1:C:511:GLY:N	2.35	0.42
1:C:549:VAL:O	1:C:552:MET:HB3	2.19	0.42
1:C:676:THR:HG21	1:C:828:LEU:HD13	2.02	0.42
1:C:974:PRO:O	1:C:977:MET:N	2.53	0.42
1:D:158:VAL:O	1:D:162:MET:HB2	2.20	0.42
1:D:530:SER:CA	2:D:2000:LMT:O2'	2.68	0.42
1:D:682:PHE:CE2	1:D:857:TYR:HB2	2.55	0.42
1:D:687:GLN:HG2	1:F:316:PHE:HD1	1.83	0.42
1:D:729:ILE:O	1:D:729:ILE:HG22	2.19	0.42
1:D:743:ILE:O	1:D:746:ILE:HB	2.20	0.42
1:D:753:ALA:O	1:D:775:SER:OG	2.11	0.42
1:E:126:GLY:HA3	1:F:116:PRO:HB3	2.02	0.42
1:E:261:LEU:HD23	1:E:263:ARG:NH1	2.35	0.42
1:F:77:TYR:CE2	1:F:860:THR:OG1	2.69	0.42
1:F:835:LYS:HZ2	1:F:836:SER:H	1.68	0.42
1:A:6:ILE:HA	1:A:491:ALA:HA	2.00	0.42
1:A:578:LEU:HD13	1:A:661:ALA:HB2	2.02	0.42
1:A:743:ILE:O	1:A:746:ILE:N	2.52	0.42
1:A:937:LEU:HD23	1:A:937:LEU:HA	1.67	0.42
1:A:1030:ARG:C	1:A:1032:ARG:N	2.72	0.42
1:B:449:LEU:HB2	1:B:478:MET:SD	2.60	0.42
1:B:525:HIS:NE2	1:B:529:ASP:OD2	2.52	0.42
1:B:685:ILE:HD11	1:B:819:TYR:HD2	1.85	0.42
1:C:220:GLY:HA3	1:C:230:LEU:O	2.19	0.42
1:C:375:VAL:HG22	1:C:480:LEU:CB	2.45	0.42
1:C:393:LEU:HG	1:C:466:ILE:CG1	2.49	0.42
1:C:451:ALA:O	1:C:883:VAL:HG11	2.20	0.42
1:C:699:ARG:CG	1:C:827:ILE:HD11	2.48	0.42
1:C:727:PHE:O	1:C:729:ILE:HD12	2.19	0.42
1:C:781:MET:HB2	1:C:782:LEU:HD22	2.02	0.42
1:D:65:ILE:C	1:D:67:GLN:N	2.73	0.42
1:E:343:THR:HB	1:E:989:LEU:HD21	2.01	0.42
1:E:392:THR:HB	1:E:393:LEU:HD23	2.01	0.42
1:F:200:PRO:HA	1:F:203:VAL:HG23	2.02	0.42
1:F:741:VAL:HG21	1:F:804:PHE:HE1	1.85	0.42
1:F:787:GLY:O	1:F:789:TRP:N	2.51	0.42
1:F:953:MET:SD	1:F:960:LEU:HA	2.59	0.42
1:A:196:PHE:HD2	1:A:196:PHE:N	2.17	0.42
1:A:199:THR:OG1	1:A:201:VAL:HG13	2.19	0.42
1:A:535:LEU:HD13	1:A:961:ILE:HG23	2.01	0.42
1:A:895:TRP:CE2	1:C:10:ILE:HG13	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:112:GLN:HA	1:B:115:MET:HB2	2.01	0.42
1:B:352:PHE:HD1	1:B:369:THR:OG1	2.00	0.42
1:B:867:ARG:HE	1:B:867:ARG:C	2.16	0.42
1:C:184:MET:HG2	1:C:246:PHE:CE2	2.55	0.42
1:C:614:GLY:O	1:C:620:ARG:HA	2.19	0.42
1:C:787:GLY:O	1:C:789:TRP:N	2.52	0.42
1:D:267:LYS:HZ1	1:D:268:ILE:N	2.18	0.42
1:D:396:PHE:HD2	1:D:396:PHE:HA	1.71	0.42
1:D:713:LEU:HD21	1:D:843:LEU:CD1	2.49	0.42
1:D:996:GLY:O	1:D:998:GLY:N	2.53	0.42
1:E:948:PHE:HE2	1:E:971:ARG:HD3	1.85	0.42
1:F:341:VAL:CG2	1:F:395:MET:HE1	2.49	0.42
1:F:564:LEU:HG	1:F:565:PRO:HD2	2.00	0.42
1:F:727:PHE:O	1:F:729:ILE:HD12	2.20	0.42
1:F:771:VAL:HG13	1:F:771:VAL:O	2.20	0.42
1:B:420:MET:SD	1:B:427:PRO:HA	2.60	0.42
1:C:203:VAL:O	1:C:207:ILE:HG13	2.20	0.42
1:C:483:LEU:O	1:C:487:ILE:HB	2.20	0.42
1:C:559:LEU:HD22	1:C:559:LEU:HA	1.51	0.42
1:C:985:GLY:O	1:C:988:PRO:HD2	2.20	0.42
1:D:11:PHE:CE1	1:D:15:ILE:HD11	2.54	0.42
1:D:185:ARG:HD3	1:D:185:ARG:HA	1.75	0.42
1:D:239:ARG:HB2	1:D:763:ILE:HD13	2.02	0.42
1:D:359:LEU:C	1:D:361:ASN:N	2.73	0.42
1:D:514:GLY:CA	1:D:517:ASN:HD22	2.21	0.42
1:D:591:LEU:HD11	1:D:613:ASN:HB2	2.01	0.42
1:E:45:ILE:O	1:E:89:GLN:HA	2.20	0.42
1:E:228:GLN:HE21	1:E:230:LEU:H	1.67	0.42
1:E:324:VAL:C	1:E:326:PRO:HD3	2.39	0.42
1:E:612:VAL:O	1:E:612:VAL:HG12	2.20	0.42
1:F:356:TYR:C	1:F:358:PHE:N	2.73	0.42
1:F:722:GLU:HG3	1:F:723:ASP:H	1.84	0.42
1:A:124:GLN:CD	1:A:758:TYR:HD2	2.23	0.42
1:A:235:ILE:HD11	1:B:726:GLN:CD	2.40	0.42
1:A:256:ASP:OD2	1:A:258:SER:HB2	2.19	0.42
1:A:350:LEU:HD11	1:A:984:LEU:C	2.39	0.42
1:A:361:ASN:O	1:A:364:ALA:N	2.48	0.42
1:A:859:TRP:CE3	1:A:863:SER:HB3	2.54	0.42
1:A:1007:VAL:HG12	1:A:1008:MET:N	2.35	0.42
1:B:733:GLN:HE22	1:B:743:ILE:HG23	1.85	0.42
1:C:100:ALA:O	1:C:103:ALA:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:139:VAL:HG22	1:C:290:GLY:HA2	2.01	0.42
1:C:208:LYS:HG3	1:C:759:VAL:HG13	2.02	0.42
1:C:321:LEU:HA	1:C:321:LEU:HD22	1.63	0.42
1:C:400:LEU:HD11	1:C:933:THR:HG23	2.02	0.42
1:C:483:LEU:HD23	1:C:483:LEU:HA	1.80	0.42
1:D:443:VAL:O	1:D:446:ALA:HB3	2.20	0.42
1:D:459:PHE:HZ	1:D:873:ALA:HA	1.85	0.42
1:E:80:SER:HB3	1:E:818:ARG:HB2	2.02	0.42
1:E:344:LEU:CD2	1:E:402:ILE:HD11	2.40	0.42
1:E:712:MET:SD	1:E:835:LYS:HG2	2.60	0.42
1:E:960:LEU:N	1:E:1040:ILE:HD13	2.34	0.42
1:F:198:LEU:HD23	1:F:198:LEU:HA	1.89	0.42
1:F:931:LEU:HD22	1:F:931:LEU:HA	1.54	0.42
1:F:974:PRO:O	1:F:975:ILE:C	2.58	0.42
1:A:104:GLN:HE21	1:A:131:LYS:HG2	1.85	0.42
1:A:110:LYS:HA	1:A:110:LYS:HD3	1.74	0.42
1:A:158:VAL:HG11	1:A:177:LEU:HD21	2.01	0.42
1:A:250:LEU:HD12	1:A:260:VAL:O	2.20	0.42
1:A:857:TYR:CD2	1:A:857:TYR:N	2.88	0.42
1:B:169:THR:HG21	1:B:306:ILE:CG1	2.50	0.42
1:B:364:ALA:HA	1:B:367:ILE:HG22	2.01	0.42
1:C:203:VAL:O	1:C:206:ALA:HB3	2.20	0.42
1:C:427:PRO:O	1:C:431:THR:OG1	2.19	0.42
1:C:527:TYR:CE1	1:C:968:VAL:HG12	2.55	0.42
1:C:882:ILE:O	1:C:885:PHE:HB3	2.19	0.42
1:D:242:SER:OG	1:D:245:GLU:HG3	2.20	0.42
1:D:680:PHE:CZ	1:D:844:MET:HG3	2.55	0.42
1:D:695:LEU:HD23	1:D:695:LEU:HA	1.76	0.42
1:E:23:GLY:HA3	1:E:377:LEU:O	2.19	0.42
1:E:36:PRO:O	1:E:38:ILE:HG13	2.20	0.42
1:E:625:GLY:O	1:E:626:ILE:HG13	2.20	0.42
1:F:682:PHE:HE1	1:F:857:TYR:HB2	1.82	0.42
1:F:897:ILE:N	1:F:897:ILE:HD13	2.35	0.42
1:F:988:PRO:O	1:F:992:SER:OG	2.38	0.42
1:A:130:GLU:HB3	1:A:173:GLY:CA	2.50	0.41
1:A:669:PRO:HB2	1:A:671:ILE:HD13	2.01	0.41
1:B:39:ALA:HB2	1:B:673:GLU:HG3	2.01	0.41
1:B:187:TRP:HB3	1:B:776:GLU:HG3	2.02	0.41
1:B:395:MET:HA	1:B:398:MET:HG3	2.01	0.41
1:B:414:GLU:HG2	1:B:973:ARG:HH11	1.83	0.41
1:B:467:TYR:HA	1:B:470:PHE:CD2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:455:PRO:HG2	1:C:880:SER:CB	2.50	0.41
1:C:510:LYS:CD	1:C:511:GLY:H	2.31	0.41
1:C:616:GLY:CA	1:C:626:ILE:HB	2.50	0.41
1:C:885:PHE:HE1	1:C:899:PHE:CE1	2.38	0.41
1:D:198:LEU:HD22	1:D:202:ASP:HB2	2.02	0.41
1:E:164:ASP:O	1:E:168:ARG:HG3	2.19	0.41
1:E:459:PHE:CB	1:E:464:GLY:HA2	2.50	0.41
1:F:151:GLN:HE22	1:F:285:PRO:HB3	1.85	0.41
1:F:548:ILE:CG2	1:F:910:ILE:HG21	2.50	0.41
1:A:159:ALA:HB3	1:A:181:GLN:HG3	2.02	0.41
1:A:470:PHE:O	1:A:471:SER:C	2.57	0.41
1:B:9:PRO:O	1:B:12:ALA:HB3	2.20	0.41
1:B:78:MET:HE3	1:B:821:GLY:N	2.35	0.41
1:B:459:PHE:HD2	1:B:460:GLY:N	2.17	0.41
1:B:519:MET:O	1:B:523:SER:OG	2.38	0.41
1:B:678:THR:OG1	1:B:831:ALA:HB3	2.20	0.41
1:B:892:TYR:HB3	1:B:893:GLU:H	1.50	0.41
1:C:143:ILE:O	1:C:321:LEU:HA	2.20	0.41
1:C:240:LEU:HB2	1:C:246:PHE:CE1	2.56	0.41
1:C:497:LEU:HD12	1:C:498:LYS:H	1.84	0.41
1:C:536:ARG:CD	2:C:2000:LMT:O4'	2.66	0.41
1:C:568:ASP:O	1:C:634:TRP:HH2	2.03	0.41
1:C:703:LEU:HD21	1:C:827:ILE:HG23	2.00	0.41
1:C:741:VAL:HA	1:C:793:ALA:HA	2.02	0.41
1:C:1011:MET:O	1:C:1015:THR:HG23	2.20	0.41
1:D:355:MET:HE1	1:D:410:ILE:HG12	2.00	0.41
1:D:557:VAL:C	1:D:559:LEU:H	2.24	0.41
1:D:684:LEU:HD11	1:D:855:VAL:CG1	2.50	0.41
1:E:47:ALA:O	1:E:87:THR:HA	2.20	0.41
1:E:277:ILE:H	1:E:277:ILE:HG13	1.58	0.41
1:E:486:LEU:HD23	1:E:486:LEU:HA	1.58	0.41
1:E:727:PHE:O	1:E:729:ILE:HD12	2.21	0.41
1:E:903:LEU:HA	1:E:903:LEU:HD23	1.55	0.41
1:E:946:VAL:HG13	1:E:1026:PHE:CD1	2.55	0.41
1:E:982:PHE:CE2	1:E:1011:MET:HG3	2.55	0.41
1:E:1016:VAL:O	1:E:1016:VAL:HG13	2.19	0.41
1:F:186:ILE:CG2	1:F:773:VAL:HG12	2.49	0.41
1:F:597:TYR:HD1	1:F:601:LYS:HD2	1.86	0.41
1:F:664:PHE:HE2	1:F:717:ARG:HB3	1.85	0.41
1:A:213:GLN:OE1	1:B:56:THR:OG1	2.29	0.41
1:A:359:LEU:C	1:A:361:ASN:H	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:434:SER:OG	1:A:435:MET:N	2.53	0.41
1:A:453:PHE:HB3	1:A:475:VAL:CG2	2.50	0.41
1:A:547:ILE:HG22	1:A:548:ILE:HD13	2.01	0.41
1:A:781:MET:SD	1:C:225:VAL:HG12	2.61	0.41
1:A:954:ASP:CB	1:A:955:LYS:HD3	2.49	0.41
1:A:1038:GLU:HA	1:A:1039:ASP:CB	2.46	0.41
1:B:26:ALA:HB1	1:B:384:ALA:HB2	2.01	0.41
1:B:94:PHE:HE2	1:B:103:ALA:HB1	1.85	0.41
1:B:521:GLU:HA	1:B:524:THR:HG22	2.01	0.41
1:B:685:ILE:HD11	1:B:819:TYR:CD2	2.54	0.41
1:B:864:TYR:CD2	1:B:865:GLN:HG3	2.55	0.41
1:B:892:TYR:CD2	1:B:897:ILE:HD12	2.55	0.41
1:B:924:ASP:OD1	1:B:926:TYR:N	2.53	0.41
1:B:984:LEU:HA	1:B:984:LEU:HD22	1.78	0.41
1:C:150:THR:O	1:C:151:GLN:C	2.59	0.41
1:C:356:TYR:C	1:C:358:PHE:N	2.74	0.41
1:C:528:THR:O	1:C:531:VAL:HB	2.20	0.41
1:C:613:ASN:HD22	1:C:614:GLY:N	2.18	0.41
1:C:719:ASN:ND2	1:C:817:GLU:CD	2.73	0.41
1:C:730:ASP:OD1	1:C:808:ARG:NH2	2.37	0.41
1:D:891:LEU:HD12	1:D:891:LEU:HA	1.85	0.41
1:D:926:TYR:HB3	1:D:1003:VAL:CG2	2.51	0.41
1:E:72:ILE:HG21	1:E:94:PHE:HZ	1.83	0.41
1:E:582:ALA:HA	1:E:586:ARG:NH2	2.35	0.41
1:E:751:GLY:O	1:E:753:ALA:N	2.53	0.41
1:E:841:MET:HG2	1:E:859:TRP:CH2	2.55	0.41
1:F:49:TYR:CE1	1:F:60:THR:HG21	2.56	0.41
1:F:158:VAL:HG11	1:F:177:LEU:HD23	2.02	0.41
1:F:634:TRP:H	1:F:634:TRP:HD1	1.63	0.41
1:A:412:VAL:HG11	1:A:489:THR:HG22	2.02	0.41
1:A:533:GLY:CA	2:A:2000:LMT:H3B	2.50	0.41
1:B:420:MET:O	1:B:500:ILE:HG22	2.19	0.41
1:B:790:TYR:HA	1:B:799:VAL:O	2.21	0.41
1:B:858:ASP:OD1	1:B:859:TRP:N	2.54	0.41
1:C:174:ASP:OD2	1:C:175:VAL:N	2.53	0.41
1:C:193:LEU:HA	1:C:193:LEU:HD23	1.66	0.41
1:C:540:ARG:HD3	1:C:541:TYR:CE1	2.54	0.41
1:C:599:LEU:O	1:C:603:LYS:HG2	2.21	0.41
1:C:610:PHE:HB3	1:C:628:PHE:HB2	2.01	0.41
1:C:728:LYS:HE3	1:C:808:ARG:HH22	1.85	0.41
1:D:34:GLN:HB2	1:D:333:VAL:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:184:MET:HB2	1:D:762:PHE:CE2	2.55	0.41
1:D:835:LYS:HA	1:D:835:LYS:HD3	1.37	0.41
1:D:889:ALA:HA	1:D:894:SER:O	2.20	0.41
1:D:996:GLY:C	1:D:998:GLY:N	2.73	0.41
1:E:246:PHE:O	1:E:249:ILE:HG12	2.20	0.41
1:E:379:THR:HA	1:E:480:LEU:CD1	2.50	0.41
1:E:448:VAL:O	1:E:452:VAL:HG13	2.21	0.41
1:E:555:LEU:CD1	1:E:914:LEU:HD12	2.50	0.41
1:F:110:LYS:HD3	1:F:110:LYS:HA	1.80	0.41
1:F:597:TYR:CE1	1:F:601:LYS:HD2	2.56	0.41
1:F:991:ILE:O	1:F:991:ILE:HD13	2.20	0.41
1:A:137:LEU:N	1:A:291:ILE:O	2.54	0.41
1:A:162:MET:HG3	1:A:313:MET:SD	2.60	0.41
1:A:177:LEU:HD22	1:A:178:PHE:N	2.36	0.41
1:A:177:LEU:HD23	1:A:289:LEU:CD1	2.49	0.41
1:A:416:VAL:HG11	1:A:497:LEU:HD23	2.01	0.41
1:A:426:PRO:HD2	1:A:429:GLU:HG3	2.01	0.41
1:A:821:GLY:O	1:A:822:LEU:HD23	2.20	0.41
1:A:886:LEU:HD23	1:C:14:VAL:CG1	2.46	0.41
1:A:907:LEU:HD12	1:A:1017:LEU:HB3	2.02	0.41
1:A:982:PHE:O	1:A:983:ILE:C	2.58	0.41
1:B:187:TRP:HA	1:B:774:MET:O	2.21	0.41
1:B:535:LEU:HD23	1:B:535:LEU:HA	1.88	0.41
1:B:671:ILE:HG22	1:B:673:GLU:H	1.85	0.41
1:C:32:VAL:HG22	1:C:390:ILE:HD11	2.01	0.41
1:C:211:ASN:ND2	1:C:240:LEU:HD22	2.36	0.41
1:C:455:PRO:HB2	1:C:876:LEU:CD1	2.50	0.41
1:C:733:GLN:O	1:C:737:GLN:HB2	2.20	0.41
1:D:214:VAL:HG23	1:D:237:GLN:HB3	2.02	0.41
1:D:342:LYS:O	1:D:346:GLU:HG3	2.20	0.41
1:D:402:ILE:HD13	1:D:402:ILE:HG21	1.80	0.41
1:D:468:ARG:HB2	1:D:468:ARG:CZ	2.50	0.41
1:D:976:LEU:O	1:D:980:LEU:HG	2.20	0.41
1:E:172:VAL:HG13	1:E:291:ILE:HG23	2.03	0.41
1:E:726:GLN:HG3	1:E:810:GLU:HG3	2.02	0.41
1:E:727:PHE:HA	1:E:808:ARG:O	2.20	0.41
1:E:880:SER:O	1:E:884:VAL:HG23	2.20	0.41
1:F:753:ALA:HB3	1:F:754:TRP:HD1	1.85	0.41
1:A:182:TYR:HD1	1:A:182:TYR:HA	1.71	0.41
1:A:190:PRO:HB3	1:A:789:TRP:CZ2	2.55	0.41
1:A:288:GLY:C	1:A:289:LEU:HD22	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:446:ALA:HA	1:A:478:MET:SD	2.60	0.41
1:B:110:LYS:HA	1:B:113:LEU:HG	2.02	0.41
1:B:138:MET:HE3	1:B:291:ILE:HD12	2.02	0.41
1:B:186:ILE:HG22	1:B:773:VAL:HG23	2.02	0.41
1:B:191:ASN:HB2	1:B:192:GLU:OE1	2.21	0.41
1:B:456:MET:HE3	1:B:467:TYR:O	2.20	0.41
1:B:520:PHE:C	1:B:520:PHE:CD2	2.94	0.41
1:B:713:LEU:HD11	1:B:843:LEU:HD12	2.02	0.41
1:B:754:TRP:HA	1:B:780:ARG:HD3	2.03	0.41
1:C:34:GLN:CG	1:C:333:VAL:HG22	2.51	0.41
1:C:38:ILE:HG23	1:C:462:SER:CB	2.51	0.41
1:C:57:VAL:HA	1:C:61:VAL:CG2	2.51	0.41
1:C:62:THR:HA	1:C:90:ILE:CG1	2.50	0.41
1:C:163:LYS:HD2	1:C:289:LEU:HD21	2.02	0.41
1:C:421:ALA:O	1:C:505:HIS:HE1	2.03	0.41
1:C:560:PRO:HB3	1:C:839:GLU:HG3	2.02	0.41
1:C:566:ASP:OD1	1:C:678:THR:HG23	2.19	0.41
1:C:971:ARG:C	1:C:974:PRO:HD2	2.41	0.41
1:D:219:LEU:HD23	1:D:234:ILE:HD11	2.01	0.41
1:D:470:PHE:O	1:D:471:SER:C	2.59	0.41
1:D:573:MET:O	1:D:666:PHE:HD1	2.03	0.41
1:E:185:ARG:NH2	1:E:772:TYR:CD1	2.89	0.41
1:E:192:GLU:H	1:E:192:GLU:HG2	1.34	0.41
1:E:684:LEU:HD12	1:E:684:LEU:HA	1.91	0.41
1:E:867:ARG:O	1:E:867:ARG:NE	2.53	0.41
1:F:45:ILE:O	1:F:89:GLN:HA	2.21	0.41
1:F:363:ARG:HB3	1:F:363:ARG:HH11	1.85	0.41
1:F:897:ILE:HB	1:F:898:PRO:HD3	2.03	0.41
1:A:17:ILE:HG21	1:B:886:LEU:HG	2.02	0.41
1:A:131:LYS:HE2	1:B:73:ASP:OD2	2.21	0.41
1:A:149:MET:HG2	1:A:153:ASP:HB3	2.03	0.41
1:A:792:ARG:HB2	1:A:798:MET:SD	2.61	0.41
1:A:835:LYS:HD2	1:A:835:LYS:N	2.35	0.41
1:A:964:THR:O	1:A:968:VAL:HB	2.21	0.41
1:B:83:ASP:HB2	1:B:87:THR:O	2.21	0.41
1:B:578:LEU:HB2	1:B:623:ASN:O	2.20	0.41
1:B:905:VAL:HG13	1:B:935:ILE:CD1	2.51	0.41
1:C:166:ILE:HG13	1:C:306:ILE:HG13	2.03	0.41
1:C:222:THR:HA	1:C:223:PRO:HA	1.75	0.41
1:C:293:LEU:HD13	1:C:294:ALA:H	1.85	0.41
1:C:400:LEU:HD11	1:C:933:THR:OG1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:415:ASN:OD1	1:C:438:ILE:HG21	2.21	0.41
1:C:420:MET:HE1	1:C:427:PRO:HA	2.02	0.41
1:C:457:ALA:HB2	1:C:471:SER:CB	2.50	0.41
1:D:159:ALA:HB2	1:D:177:LEU:HG	2.02	0.41
1:D:195:LYS:HZ1	1:D:196:PHE:HE2	1.67	0.41
1:E:470:PHE:CG	1:E:929:VAL:HG21	2.55	0.41
1:E:535:LEU:HG	1:E:1027:VAL:HG21	2.02	0.41
1:F:339:GLU:HB3	1:F:1000:GLN:HE22	1.86	0.41
1:F:633:ASP:N	1:F:633:ASP:OD1	2.54	0.41
1:F:926:TYR:HE1	1:F:999:ALA:CB	2.34	0.41
1:A:907:LEU:HD11	1:A:1021:PHE:CE1	2.56	0.41
1:A:925:VAL:O	1:A:928:GLN:N	2.54	0.41
1:A:971:ARG:O	1:A:974:PRO:HD2	2.21	0.41
1:B:967:ALA:HA	1:B:970:MET:CE	2.51	0.41
1:B:1020:PHE:CD2	2:B:2000:LMT:H52	2.56	0.41
1:C:391:ASN:HD21	1:C:469:GLN:CD	2.17	0.41
1:C:510:LYS:HG2	1:C:518:ARG:NH1	2.36	0.41
1:C:971:ARG:HE	1:C:975:ILE:HG13	1.85	0.41
1:D:492:LEU:HD23	1:D:492:LEU:HA	1.81	0.41
1:E:785:ASP:N	1:E:785:ASP:OD1	2.54	0.41
1:E:1037:ASN:HA	1:E:1038:GLU:HG2	2.02	0.41
1:F:62:THR:HG22	1:F:88:VAL:CG2	2.50	0.41
1:F:897:ILE:O	1:F:901:VAL:HG12	2.20	0.41
1:F:944:LEU:HB3	1:F:971:ARG:CD	2.51	0.41
1:A:162:MET:SD	1:A:317:PHE:CZ	3.13	0.41
1:A:736:ALA:HB2	1:A:804:PHE:CD1	2.56	0.41
1:A:892:TYR:CD2	1:A:897:ILE:HG22	2.56	0.41
1:B:344:LEU:HD23	1:B:348:ILE:HG12	2.02	0.41
1:B:370:ILE:HD12	1:B:370:ILE:HG23	1.75	0.41
1:B:370:ILE:HD13	1:B:370:ILE:HA	1.76	0.41
1:B:531:VAL:HA	1:B:534:ILE:HD13	2.02	0.41
1:B:557:VAL:C	1:B:559:LEU:H	2.24	0.41
1:B:659:LYS:HD2	1:B:659:LYS:HA	1.90	0.41
1:B:787:GLY:C	1:B:789:TRP:H	2.24	0.41
1:B:881:LEU:HD12	1:B:881:LEU:HA	1.72	0.41
1:B:961:ILE:H	1:B:961:ILE:HG13	1.58	0.41
2:B:2000:LMT:H121	2:B:2000:LMT:H91	1.90	0.41
1:C:68:ASN:CB	1:C:114:ALA:HB2	2.50	0.41
1:C:344:LEU:HD22	1:C:344:LEU:HA	1.66	0.41
1:C:352:PHE:CD2	1:C:352:PHE:C	2.94	0.41
1:C:400:LEU:HD12	1:C:474:ILE:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:606:VAL:HG13	1:C:629:VAL:CG1	2.51	0.41
1:C:708:LYS:HB3	1:C:708:LYS:HE2	1.91	0.41
1:C:781:MET:O	1:C:782:LEU:HD13	2.21	0.41
1:C:888:LEU:CD1	1:C:901:VAL:HG11	2.49	0.41
1:D:19:ILE:HD13	1:D:19:ILE:HG21	1.84	0.41
1:D:250:LEU:CD1	1:D:259:ARG:HB3	2.50	0.41
1:D:352:PHE:CD2	1:D:352:PHE:C	2.95	0.41
1:D:405:LEU:CD2	1:D:481:SER:HB3	2.51	0.41
1:D:505:HIS:O	1:D:507:GLU:N	2.44	0.41
1:D:572:PHE:O	1:D:629:VAL:HG13	2.21	0.41
1:D:597:TYR:CD2	1:D:655:PHE:CZ	3.08	0.41
1:D:640:GLU:O	1:D:643:LYS:HB2	2.21	0.41
1:D:727:PHE:O	1:D:729:ILE:HD12	2.21	0.41
1:D:906:PRO:O	1:D:910:ILE:HG22	2.21	0.41
1:D:1022:VAL:HA	1:D:1025:PHE:HD1	1.85	0.41
1:D:1041:GLU:HB2	1:D:1042:HIS:HA	2.02	0.41
1:E:162:MET:C	1:E:164:ASP:H	2.24	0.41
1:E:186:ILE:CD1	1:E:262:LEU:HD21	2.50	0.41
1:E:417:GLU:CG	1:E:497:LEU:HD21	2.51	0.41
1:E:545:TYR:O	1:E:548:ILE:N	2.54	0.41
1:E:555:LEU:HA	1:E:555:LEU:HD23	1.71	0.41
1:E:596:HIS:O	1:E:600:THR:OG1	2.18	0.41
1:E:736:ALA:HB2	1:E:804:PHE:HD1	1.86	0.41
1:E:877:TYR:HD2	1:E:877:TYR:HA	1.53	0.41
1:F:58:GLN:O	1:F:63:GLN:HB2	2.20	0.41
1:F:148:THR:HG22	1:F:149:MET:O	2.21	0.41
1:F:166:ILE:HD13	1:F:166:ILE:HA	1.79	0.41
1:F:251:LEU:HG	1:F:260:VAL:O	2.21	0.41
1:F:380:PHE:CZ	1:F:398:MET:HE1	2.56	0.41
1:F:682:PHE:O	1:F:826:GLU:HA	2.20	0.41
1:F:859:TRP:CE3	1:F:863:SER:HB2	2.55	0.41
1:F:986:VAL:O	1:F:987:MET:C	2.59	0.41
1:F:1019:ILE:HG13	1:F:1020:PHE:CD1	2.56	0.41
1:A:275:TYR:CG	1:C:223:PRO:HG3	2.56	0.41
1:A:418:ARG:NH1	1:A:422:GLU:OE1	2.43	0.41
1:A:545:TYR:HE1	1:A:903:LEU:HD13	1.84	0.41
1:A:801:PHE:HA	1:A:804:PHE:HE2	1.85	0.41
1:B:154:ILE:CG2	1:B:287:SER:HB3	2.47	0.41
1:B:527:TYR:CZ	1:B:968:VAL:HG13	2.55	0.41
1:C:444:GLY:CA	1:C:892:TYR:HE1	2.34	0.41
1:C:545:TYR:CD1	1:C:546:LEU:HD12	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:49:TYR:C	1:D:49:TYR:CD2	2.94	0.41
1:D:575:MET:O	1:D:663:VAL:HA	2.21	0.41
1:D:696:THR:HG21	1:D:722:GLU:OE1	2.21	0.41
1:E:527:TYR:CE1	1:E:972:LEU:HD23	2.56	0.41
1:E:605:ASN:OD1	1:E:642:ASN:ND2	2.54	0.41
1:E:868:LEU:HD23	1:E:868:LEU:HA	1.68	0.41
1:F:100:ALA:O	1:F:103:ALA:HB3	2.21	0.41
1:F:112:GLN:HG2	1:F:115:MET:SD	2.61	0.41
1:F:186:ILE:O	1:F:773:VAL:HA	2.21	0.41
1:F:216:ALA:HB1	1:F:234:ILE:HG22	2.03	0.41
1:F:442:LEU:HD13	1:F:485:ALA:HB1	2.02	0.41
1:F:669:PRO:HG3	1:F:675:GLY:HA3	2.03	0.41
1:F:985:GLY:O	1:F:988:PRO:HD2	2.21	0.41
1:A:240:LEU:HB2	1:A:246:PHE:CZ	2.56	0.40
1:A:542:LEU:O	1:A:546:LEU:HD13	2.21	0.40
1:A:597:TYR:CD2	1:A:655:PHE:CZ	3.09	0.40
1:A:602:GLU:OE1	1:A:650:ARG:HD2	2.21	0.40
1:A:996:GLY:O	1:A:999:ALA:N	2.54	0.40
1:B:144:ASN:HA	1:B:320:GLY:O	2.21	0.40
1:B:485:ALA:C	1:B:490:PRO:HD3	2.42	0.40
1:B:559:LEU:HD23	1:B:917:THR:OG1	2.21	0.40
1:B:692:HIS:CE1	1:B:813:SER:HB2	2.56	0.40
1:B:926:TYR:HE1	1:B:999:ALA:CB	2.34	0.40
1:C:322:LYS:HB2	1:C:322:LYS:HE2	1.77	0.40
1:C:378:GLY:O	1:C:381:ALA:HB3	2.22	0.40
1:C:751:GLY:C	1:C:753:ALA:N	2.75	0.40
1:C:893:GLU:CG	1:C:894:SER:N	2.84	0.40
1:C:908:GLY:HA2	1:C:1014:ALA:CB	2.47	0.40
1:D:353:LEU:HD22	1:D:353:LEU:HA	1.74	0.40
1:E:108:GLN:HG2	1:F:112:GLN:OE1	2.21	0.40
1:E:235:ILE:HD11	1:F:726:GLN:HB3	2.02	0.40
1:E:528:THR:O	1:E:529:ASP:C	2.59	0.40
1:E:541:TYR:CD1	1:E:541:TYR:N	2.89	0.40
1:E:1030:ARG:HD2	1:E:1030:ARG:HA	1.93	0.40
1:F:190:PRO:HA	1:F:193:LEU:HB2	2.03	0.40
1:F:213:GLN:NE2	1:F:238:THR:HG23	2.36	0.40
1:F:582:ALA:HB1	1:F:586:ARG:HE	1.86	0.40
1:A:103:ALA:HA	1:A:106:GLN:OE1	2.21	0.40
1:A:262:LEU:O	1:A:265:VAL:HG22	2.22	0.40
1:B:108:GLN:NE2	1:C:112:GLN:CD	2.75	0.40
1:C:182:TYR:HD1	1:C:182:TYR:HA	1.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:785:ASP:N	1:C:785:ASP:OD2	2.52	0.40
1:C:801:PHE:HD1	1:C:804:PHE:HE2	1.68	0.40
1:D:3:ASN:HA	1:D:6:ILE:HG23	2.01	0.40
1:D:66:GLU:OE1	1:D:821:GLY:HA2	2.22	0.40
1:D:190:PRO:HG3	1:D:779:TYR:HB3	2.03	0.40
1:D:249:ILE:HD13	1:D:249:ILE:HA	1.95	0.40
1:D:393:LEU:HD11	1:D:466:ILE:HG12	2.03	0.40
1:D:811:TYR:HD2	1:D:811:TYR:HA	1.77	0.40
1:E:4:PHE:HZ	1:E:8:ARG:NH1	2.20	0.40
1:E:200:PRO:HB2	1:E:749:THR:HA	2.03	0.40
1:E:459:PHE:HD2	1:E:459:PHE:HA	1.75	0.40
1:E:510:LYS:HD2	1:E:510:LYS:HA	1.92	0.40
1:E:531:VAL:HA	1:E:534:ILE:HG13	2.03	0.40
1:E:618:ALA:HB1	1:E:720:GLY:HA2	2.04	0.40
1:E:746:ILE:HG22	1:E:791:VAL:HG21	2.03	0.40
1:E:974:PRO:O	1:E:977:MET:HB2	2.21	0.40
1:F:160:ALA:HA	1:F:767:ARG:HH12	1.87	0.40
1:F:163:LYS:HB2	1:F:289:LEU:HD21	2.03	0.40
1:F:300:LEU:HD12	1:F:300:LEU:N	2.36	0.40
1:F:348:ILE:CD1	1:F:372:VAL:HG11	2.50	0.40
1:F:597:TYR:CE1	1:F:601:LYS:HB2	2.56	0.40
1:F:603:LYS:HE2	1:F:603:LYS:HB3	1.86	0.40
1:A:281:PHE:HD1	1:A:610:PHE:CD1	2.32	0.40
1:A:451:ALA:CB	1:A:883:VAL:HG13	2.45	0.40
1:A:634:TRP:CD1	1:A:634:TRP:N	2.83	0.40
1:A:754:TRP:HZ3	1:C:219:LEU:HA	1.87	0.40
1:A:909:VAL:HG13	1:A:931:LEU:HD21	2.03	0.40
1:B:368:PRO:HB3	1:B:410:ILE:HD12	2.02	0.40
1:B:792:ARG:HG2	1:B:792:ARG:NH1	2.36	0.40
1:B:885:PHE:CE1	1:B:899:PHE:HE1	2.39	0.40
1:C:446:ALA:O	1:C:450:SER:OG	2.40	0.40
1:C:545:TYR:HB2	1:C:1021:PHE:CE2	2.45	0.40
1:C:982:PHE:O	1:C:983:ILE:C	2.60	0.40
1:D:177:LEU:CD1	1:D:180:SER:HA	2.51	0.40
1:D:431:THR:HG21	1:D:490:PRO:O	2.21	0.40
1:D:616:GLY:HA2	1:D:626:ILE:HB	2.02	0.40
1:D:669:PRO:HB2	1:D:671:ILE:HD12	2.02	0.40
1:D:751:GLY:O	1:D:753:ALA:N	2.54	0.40
1:D:864:TYR:HD1	1:D:864:TYR:HA	1.67	0.40
1:E:644:VAL:O	1:E:648:THR:HG23	2.20	0.40
1:E:790:TYR:HB3	1:E:798:MET:HG2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:540:ARG:O	1:F:543:VAL:HB	2.22	0.40
1:F:572:PHE:HD2	1:F:631:LEU:HD11	1.86	0.40
1:F:960:LEU:HD23	1:F:1031:ARG:HH21	1.87	0.40
1:F:1016:VAL:O	1:F:1016:VAL:HG12	2.20	0.40
1:A:122:VAL:O	1:A:123:GLN:C	2.60	0.40
1:A:382:VAL:O	1:A:386:PHE:HB2	2.22	0.40
1:A:504:ASP:C	1:A:506:GLY:H	2.25	0.40
1:A:792:ARG:HH11	1:A:792:ARG:HG2	1.86	0.40
1:A:848:ALA:HA	1:A:851:LEU:CD1	2.51	0.40
1:A:1017:LEU:HA	1:A:1017:LEU:HD13	1.80	0.40
1:B:78:MET:HG3	1:B:90:ILE:CG2	2.50	0.40
1:B:214:VAL:HG22	1:B:237:GLN:HB3	2.03	0.40
1:B:376:LEU:O	1:B:377:LEU:C	2.59	0.40
1:C:41:PRO:HG2	1:C:94:PHE:HB2	2.03	0.40
1:C:62:THR:C	1:C:64:VAL:H	2.25	0.40
1:C:62:THR:CG2	1:C:80:SER:HB2	2.50	0.40
1:C:185:ARG:HD3	1:C:772:TYR:HB3	2.04	0.40
1:C:401:ALA:O	1:C:405:LEU:HB3	2.20	0.40
1:C:986:VAL:O	1:C:987:MET:C	2.59	0.40
1:D:32:VAL:O	1:D:300:LEU:HD13	2.21	0.40
1:D:137:LEU:HB2	1:D:293:LEU:HB2	2.03	0.40
1:D:583:THR:H	1:D:586:ARG:HG3	1.87	0.40
1:E:199:THR:HG21	1:E:791:VAL:HA	2.04	0.40
1:E:350:LEU:HD23	1:E:350:LEU:HA	1.86	0.40
1:E:751:GLY:C	1:E:753:ALA:N	2.75	0.40
1:F:307:ARG:HA	1:F:307:ARG:HD2	1.81	0.40
1:F:382:VAL:HG11	1:F:476:SER:HB2	2.03	0.40
1:F:483:LEU:O	1:F:487:ILE:HB	2.21	0.40
1:F:574:THR:HG23	1:F:627:ALA:HB3	2.03	0.40
1:F:885:PHE:CE1	1:F:898:PRO:HB2	2.57	0.40
1:F:1034:SER:HG	1:F:1037:ASN:HB2	1.86	0.40
1:A:47:ALA:HB3	1:A:88:VAL:HG13	2.03	0.40
1:A:102:ILE:CD1	1:C:101:ASP:HB3	2.51	0.40
1:A:117:LEU:HD11	1:C:125:GLN:NE2	2.36	0.40
1:A:372:VAL:HA	1:A:375:VAL:CG1	2.52	0.40
1:A:448:VAL:HB	1:A:884:VAL:HG23	2.03	0.40
1:A:637:ARG:HA	1:A:642:ASN:HD22	1.86	0.40
1:A:732:ASP:OD2	1:A:735:LYS:HE2	2.22	0.40
1:A:866:GLU:H	1:A:866:GLU:HG2	1.61	0.40
1:A:888:LEU:HD11	1:A:943:ILE:HD11	2.03	0.40
1:B:30:LEU:HD12	1:B:31:PRO:CD	2.42	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:115:MET:HA	1:B:118:LEU:CD1	2.42	0.40
1:B:184:MET:HB2	1:B:762:PHE:CD2	2.57	0.40
1:B:277:ILE:H	1:B:277:ILE:HG13	1.72	0.40
1:B:314:GLU:HA	1:B:317:PHE:CD2	2.56	0.40
1:B:356:TYR:O	1:B:360:GLN:N	2.49	0.40
1:B:578:LEU:HD23	1:B:578:LEU:HA	1.84	0.40
1:B:837:THR:O	1:B:840:ALA:HB3	2.22	0.40
1:B:957:GLY:O	1:B:1040:ILE:HG22	2.22	0.40
1:C:2:PRO:HB2	1:C:3:ASN:H	1.76	0.40
1:C:411:VAL:HG22	1:C:944:LEU:HD11	2.04	0.40
1:C:444:GLY:O	1:C:448:VAL:HG22	2.22	0.40
1:D:63:GLN:NE2	1:F:767:ARG:HA	2.31	0.40
1:D:186:ILE:CB	1:D:773:VAL:HG12	2.50	0.40
1:D:199:THR:HB	1:D:749:THR:CG2	2.52	0.40
1:D:281:PHE:CE1	1:D:608:SER:HB2	2.57	0.40
1:D:525:HIS:O	1:D:526:HIS:C	2.59	0.40
1:D:895:TRP:CE2	1:F:10:ILE:HD12	2.57	0.40
1:D:1037:ASN:HA	1:D:1038:GLU:O	2.21	0.40
1:E:778:LYS:HA	1:E:781:MET:CE	2.52	0.40
1:E:1020:PHE:HZ	2:E:2000:LMT:H52	1.86	0.40
1:F:172:VAL:HG21	1:F:306:ILE:HD11	2.03	0.40
1:F:405:LEU:HD21	1:F:477:ALA:HB1	2.04	0.40
1:F:578:LEU:HD21	1:F:586:ARG:HB2	2.04	0.40
1:F:833:PRO:O	1:F:835:LYS:N	2.50	0.40
1:F:835:LYS:NZ	1:F:836:SER:H	2.18	0.40
1:F:870:GLY:C	1:F:872:GLN:N	2.73	0.40
1:F:952:LEU:HD22	1:F:956:GLU:HG3	2.04	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:529:ASP:OD2	1:B:525:HIS:NE2[2_555]	1.98	0.22

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1042/1069 (98%)	891 (86%)	117 (11%)	34 (3%)	4	30
1	B	1040/1069 (97%)	893 (86%)	126 (12%)	21 (2%)	7	41
1	C	1040/1069 (97%)	874 (84%)	132 (13%)	34 (3%)	4	30
1	D	1042/1069 (98%)	904 (87%)	113 (11%)	25 (2%)	6	36
1	E	1040/1069 (97%)	899 (86%)	124 (12%)	17 (2%)	9	45
1	F	1040/1069 (97%)	898 (86%)	110 (11%)	32 (3%)	4	32
All	All	6244/6414 (97%)	5359 (86%)	722 (12%)	163 (3%)	5	34

All (163) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	133	SER
1	A	507	GLU
1	A	512	PHE
1	A	992	SER
1	A	995	ALA
1	A	1035	ARG
1	B	147	GLY
1	B	516	PHE
1	B	622	GLN
1	B	638	PRO
1	B	892	TYR
1	B	1040	ILE
1	C	99	ASP
1	C	638	PRO
1	C	893	GLU
1	C	996	GLY
1	C	1037	ASN
1	C	1042	HIS
1	D	147	GLY
1	D	509	LYS
1	D	638	PRO
1	D	991	ILE
1	D	992	SER
1	E	147	GLY
1	E	377	LEU
1	E	638	PRO

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Mol	Chain	Res	Type
1	E	896	SER
1	E	1034	SER
1	E	1038	GLU
1	E	1042	HIS
1	F	507	GLU
1	F	509	LYS
1	F	510	LYS
1	F	672	VAL
1	F	673	GLU
1	F	995	ALA
1	F	996	GLY
1	F	1034	SER
1	F	1035	ARG
1	F	1039	ASP
1	F	1041	GLU
1	A	509	LYS
1	A	511	GLY
1	A	638	PRO
1	A	672	VAL
1	A	673	GLU
1	A	674	LEU
1	A	991	ILE
1	A	1036	LYS
1	A	1038	GLU
1	A	1043	SER
1	B	505	HIS
1	B	508	GLY
1	B	617	ALA
1	B	672	VAL
1	B	673	GLU
1	B	689	GLY
1	B	893	GLU
1	B	1038	GLU
1	B	1042	HIS
1	C	6	ILE
1	C	66	GLU
1	C	98	THR
1	C	105	VAL
1	C	126	GLY
1	C	894	SER
1	D	507	GLU
1	D	617	ALA

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Mol	Chain	Res	Type
1	D	673	GLU
1	D	765	ARG
1	D	919	ARG
1	E	515	TRP
1	E	1040	ILE
1	F	3	ASN
1	F	6	ILE
1	F	134	SER
1	F	505	HIS
1	F	618	ALA
1	F	638	PRO
1	F	834	GLY
1	A	326	PRO
1	A	1031	ARG
1	B	514	GLY
1	B	788	ASP
1	C	507	GLU
1	C	722	GLU
1	C	814	PRO
1	C	890	ALA
1	D	123	GLN
1	D	920	GLY
1	D	1035	ARG
1	D	1037	ASN
1	D	1038	GLU
1	E	511	GLY
1	E	617	ALA
1	E	677	ALA
1	F	215	ALA
1	F	788	ASP
1	F	814	PRO
1	F	1042	HIS
1	A	66	GLU
1	A	148	THR
1	A	360	GLN
1	A	691	GLY
1	A	1037	ASN
1	B	295	THR
1	B	923	ASN
1	C	37	THR
1	C	63	GLN
1	C	123	GLN

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Mol	Chain	Res	Type
1	C	299	ALA
1	C	919	ARG
1	C	920	GLY
1	D	691	GLY
1	D	1040	ILE
1	E	123	GLN
1	E	788	ASP
1	F	147	GLY
1	F	357	LEU
1	F	688	ALA
1	F	835	LYS
1	A	4	PHE
1	A	215	ALA
1	A	920	GLY
1	B	995	ALA
1	C	62	THR
1	C	295	THR
1	C	357	LEU
1	C	377	LEU
1	C	558	ARG
1	C	848	ALA
1	C	1033	PHE
1	C	1038	GLU
1	D	215	ALA
1	D	505	HIS
1	D	558	ARG
1	D	766	GLY
1	D	923	ASN
1	E	357	LEU
1	F	126	GLY
1	F	360	GLN
1	A	204	ILE
1	A	960	LEU
1	B	621	GLY
1	C	83	ASP
1	C	1041	GLU
1	D	871	ASN
1	E	378	GLY
1	F	833	PRO
1	A	126	GLY
1	C	834	GLY
1	A	296	GLY

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Mol	Chain	Res	Type
1	A	330	THR
1	D	910	ILE
1	F	204	ILE
1	A	171	GLY
1	A	508	GLY
1	A	616	GLY
1	E	870	GLY
1	F	330	THR
1	C	330	THR
1	D	639	GLY
1	F	751	GLY

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	848/870 (98%)	725 (86%)	123 (14%)	3	19
1	B	846/870 (97%)	721 (85%)	125 (15%)	3	18
1	C	846/870 (97%)	723 (86%)	123 (14%)	3	19
1	D	848/870 (98%)	753 (89%)	95 (11%)	6	29
1	E	846/870 (97%)	748 (88%)	98 (12%)	5	27
1	F	846/870 (97%)	741 (88%)	105 (12%)	4	24
All	All	5080/5220 (97%)	4411 (87%)	669 (13%)	4	22

All (669) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	6	ILE
1	A	27	ILE
1	A	34	GLN
1	A	45	ILE
1	A	49	TYR
1	A	53	ASP
1	A	70	ASN

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Mol	Chain	Res	Type
1	A	88	VAL
1	A	91	THR
1	A	102	ILE
1	A	104	GLN
1	A	115	MET
1	A	127	VAL
1	A	131	LYS
1	A	138	MET
1	A	146	ASP
1	A	149	MET
1	A	152	GLU
1	A	157	TYR
1	A	161	ASN
1	A	164	ASP
1	A	169	THR
1	A	185	ARG
1	A	195	LYS
1	A	196	PHE
1	A	201	VAL
1	A	205	THR
1	A	214	VAL
1	A	222	THR
1	A	231	ASN
1	A	243	THR
1	A	253	VAL
1	A	263	ARG
1	A	287	SER
1	A	293	LEU
1	A	324	VAL
1	A	327	TYR
1	A	337	ILE
1	A	348	ILE
1	A	353	LEU
1	A	355	MET
1	A	360	GLN
1	A	362	PHE
1	A	365	THR
1	A	366	LEU
1	A	372	VAL
1	A	386	PHE
1	A	393	LEU
1	A	394	THR

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Mol	Chain	Res	Type
1	A	395	MET
1	A	399	VAL
1	A	404	LEU
1	A	405	LEU
1	A	429	GLU
1	A	445	ILE
1	A	452	VAL
1	A	463	THR
1	A	483	LEU
1	A	502	LYS
1	A	522	LYS
1	A	523	SER
1	A	524	THR
1	A	526	HIS
1	A	534	ILE
1	A	538	THR
1	A	561	SER
1	A	564	LEU
1	A	602	GLU
1	A	604	ASN
1	A	605	ASN
1	A	623	ASN
1	A	624	THR
1	A	630	SER
1	A	644	VAL
1	A	647	ILE
1	A	649	MET
1	A	659	LYS
1	A	666	PHE
1	A	671	ILE
1	A	680	PHE
1	A	695	LEU
1	A	722	GLU
1	A	744	ASN
1	A	760	ASN
1	A	768	VAL
1	A	791	VAL
1	A	797	GLN
1	A	802	SER
1	A	804	PHE
1	A	810	GLU
1	A	813	SER

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Mol	Chain	Res	Type
1	A	816	LEU
1	A	827	ILE
1	A	828	LEU
1	A	836	SER
1	A	843	LEU
1	A	853	THR
1	A	866	GLU
1	A	867	ARG
1	A	886	LEU
1	A	888	LEU
1	A	893	GLU
1	A	894	SER
1	A	897	ILE
1	A	903	LEU
1	A	931	LEU
1	A	933	THR
1	A	946	VAL
1	A	950	LYS
1	A	951	ASP
1	A	965	LEU
1	A	968	VAL
1	A	971	ARG
1	A	980	LEU
1	A	983	ILE
1	A	984	LEU
1	A	986	VAL
1	A	993	THR
1	A	1007	VAL
1	A	1021	PHE
1	A	1040	ILE
1	A	1042	HIS
1	A	1045	THR
1	B	6	ILE
1	B	10	ILE
1	B	35	TYR
1	B	57	VAL
1	B	60	THR
1	B	64	VAL
1	B	65	ILE
1	B	70	ASN
1	B	72	ILE
1	B	88	VAL

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Mol	Chain	Res	Type
1	B	96	SER
1	B	110	LYS
1	B	117	LEU
1	B	121	GLU
1	B	124	GLN
1	B	125	GLN
1	B	136	PHE
1	B	145	THR
1	B	164	ASP
1	B	166	ILE
1	B	169	THR
1	B	175	VAL
1	B	189	ASN
1	B	195	LYS
1	B	205	THR
1	B	207	ILE
1	B	213	GLN
1	B	214	VAL
1	B	225	VAL
1	B	229	GLN
1	B	243	THR
1	B	256	ASP
1	B	259	ARG
1	B	270	LEU
1	B	278	ILE
1	B	293	LEU
1	B	295	THR
1	B	324	VAL
1	B	330	THR
1	B	353	LEU
1	B	362	PHE
1	B	365	THR
1	B	367	ILE
1	B	372	VAL
1	B	379	THR
1	B	393	LEU
1	B	395	MET
1	B	396	PHE
1	B	410	ILE
1	B	445	ILE
1	B	447	MET
1	B	448	VAL

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Mol	Chain	Res	Type
1	B	449	LEU
1	B	459	PHE
1	B	463	THR
1	B	468	ARG
1	B	480	LEU
1	B	510	LYS
1	B	519	MET
1	B	524	THR
1	B	534	ILE
1	B	536	ARG
1	B	538	THR
1	B	540	ARG
1	B	542	LEU
1	B	544	LEU
1	B	547	ILE
1	B	559	LEU
1	B	563	PHE
1	B	564	LEU
1	B	586	ARG
1	B	599	LEU
1	B	630	SER
1	B	644	VAL
1	B	657	GLN
1	B	659	LYS
1	B	666	PHE
1	B	668	LEU
1	B	673	GLU
1	B	680	PHE
1	B	699	ARG
1	B	705	GLU
1	B	714	THR
1	B	717	ARG
1	B	721	LEU
1	B	744	ASN
1	B	746	ILE
1	B	795	ASP
1	B	804	PHE
1	B	813	SER
1	B	824	SER
1	B	825	MET
1	B	837	THR
1	B	843	LEU

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Mol	Chain	Res	Type
1	B	844	MET
1	B	847	LEU
1	B	867	ARG
1	B	871	ASN
1	B	872	GLN
1	B	879	ILE
1	B	881	LEU
1	B	886	LEU
1	B	887	CYS
1	B	894	SER
1	B	897	ILE
1	B	903	LEU
1	B	910	ILE
1	B	914	LEU
1	B	919	ARG
1	B	922	THR
1	B	923	ASN
1	B	925	VAL
1	B	931	LEU
1	B	945	ILE
1	B	947	GLU
1	B	971	ARG
1	B	983	ILE
1	B	984	LEU
1	B	986	VAL
1	B	993	THR
1	B	1011	MET
1	B	1024	VAL
1	B	1032	ARG
1	B	1041	GLU
1	B	1042	HIS
1	C	6	ILE
1	C	8	ARG
1	C	11	PHE
1	C	17	ILE
1	C	18	ILE
1	C	27	ILE
1	C	35	TYR
1	C	44	THR
1	C	45	ILE
1	C	49	TYR
1	C	69	MET

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Mol	Chain	Res	Type
1	C	76	MET
1	C	78	MET
1	C	91	THR
1	C	92	LEU
1	C	102	ILE
1	C	111	LEU
1	C	149	MET
1	C	164	ASP
1	C	169	THR
1	C	177	LEU
1	C	195	LYS
1	C	205	THR
1	C	226	LYS
1	C	228	GLN
1	C	240	LEU
1	C	243	THR
1	C	245	GLU
1	C	291	ILE
1	C	293	LEU
1	C	302	THR
1	C	309	GLU
1	C	312	LYS
1	C	322	LYS
1	C	327	TYR
1	C	329	THR
1	C	337	ILE
1	C	343	THR
1	C	350	LEU
1	C	353	LEU
1	C	372	VAL
1	C	392	THR
1	C	398	MET
1	C	399	VAL
1	C	405	LEU
1	C	407	ASP
1	C	420	MET
1	C	422	GLU
1	C	425	LEU
1	C	432	ARG
1	C	435	MET
1	C	437	GLN
1	C	443	VAL

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Mol	Chain	Res	Type
1	C	445	ILE
1	C	447	MET
1	C	452	VAL
1	C	456	MET
1	C	466	ILE
1	C	487	ILE
1	C	489	THR
1	C	498	LYS
1	C	502	LYS
1	C	510	LYS
1	C	512	PHE
1	C	520	PHE
1	C	523	SER
1	C	524	THR
1	C	526	HIS
1	C	534	ILE
1	C	538	THR
1	C	540	ARG
1	C	559	LEU
1	C	602	GLU
1	C	613	ASN
1	C	624	THR
1	C	634	TRP
1	C	647	ILE
1	C	659	LYS
1	C	673	GLU
1	C	684	LEU
1	C	692	HIS
1	C	694	LYS
1	C	695	LEU
1	C	724	THR
1	C	728	LYS
1	C	743	ILE
1	C	746	ILE
1	C	772	TYR
1	C	774	MET
1	C	775	SER
1	C	785	ASP
1	C	804	PHE
1	C	813	SER
1	C	818	ARG
1	C	835	LYS

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Mol	Chain	Res	Type
1	C	842	GLU
1	C	847	LEU
1	C	850	LYS
1	C	860	THR
1	C	881	LEU
1	C	891	LEU
1	C	904	VAL
1	C	923	ASN
1	C	925	VAL
1	C	931	LEU
1	C	935	ILE
1	C	940	LYS
1	C	943	ILE
1	C	950	LYS
1	C	953	MET
1	C	961	ILE
1	C	970	MET
1	C	971	ARG
1	C	976	LEU
1	C	978	THR
1	C	980	LEU
1	C	983	ILE
1	C	984	LEU
1	C	986	VAL
1	C	1007	VAL
1	C	1030	ARG
1	C	1032	ARG
1	C	1035	ARG
1	D	6	ILE
1	D	17	ILE
1	D	45	ILE
1	D	48	SER
1	D	49	TYR
1	D	69	MET
1	D	138	MET
1	D	150	THR
1	D	151	GLN
1	D	157	TYR
1	D	166	ILE
1	D	195	LYS
1	D	205	THR
1	D	238	THR

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Mol	Chain	Res	Type
1	D	243	THR
1	D	267	LYS
1	D	270	LEU
1	D	278	ILE
1	D	293	LEU
1	D	324	VAL
1	D	337	ILE
1	D	341	VAL
1	D	353	LEU
1	D	362	PHE
1	D	363	ARG
1	D	372	VAL
1	D	399	VAL
1	D	400	LEU
1	D	413	VAL
1	D	428	LYS
1	D	437	GLN
1	D	449	LEU
1	D	452	VAL
1	D	463	THR
1	D	483	LEU
1	D	489	THR
1	D	507	GLU
1	D	509	LYS
1	D	524	THR
1	D	538	THR
1	D	557	VAL
1	D	561	SER
1	D	563	PHE
1	D	564	LEU
1	D	574	THR
1	D	575	MET
1	D	602	GLU
1	D	623	ASN
1	D	629	VAL
1	D	633	ASP
1	D	634	TRP
1	D	649	MET
1	D	659	LYS
1	D	666	PHE
1	D	668	LEU
1	D	671	ILE

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Mol	Chain	Res	Type
1	D	673	GLU
1	D	676	THR
1	D	678	THR
1	D	687	GLN
1	D	695	LEU
1	D	703	LEU
1	D	716	VAL
1	D	726	GLN
1	D	786	ILE
1	D	791	VAL
1	D	801	PHE
1	D	802	SER
1	D	804	PHE
1	D	811	TYR
1	D	813	SER
1	D	825	MET
1	D	835	LYS
1	D	842	GLU
1	D	843	LEU
1	D	850	LYS
1	D	864	TYR
1	D	867	ARG
1	D	872	GLN
1	D	875	SER
1	D	893	GLU
1	D	894	SER
1	D	900	SER
1	D	921	LEU
1	D	931	LEU
1	D	965	LEU
1	D	971	ARG
1	D	972	LEU
1	D	984	LEU
1	D	986	VAL
1	D	1015	THR
1	D	1035	ARG
1	D	1040	ILE
1	D	1041	GLU
1	D	1042	HIS
1	E	4	PHE
1	E	13	TRP
1	E	32	VAL

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Mol	Chain	Res	Type
1	E	35	TYR
1	E	44	THR
1	E	45	ILE
1	E	70	ASN
1	E	73	ASP
1	E	96	SER
1	E	138	MET
1	E	145	THR
1	E	164	ASP
1	E	166	ILE
1	E	169	THR
1	E	182	TYR
1	E	192	GLU
1	E	195	LYS
1	E	196	PHE
1	E	200	PRO
1	E	205	THR
1	E	229	GLN
1	E	244	GLU
1	E	253	VAL
1	E	256	ASP
1	E	259	ARG
1	E	261	LEU
1	E	267	LYS
1	E	270	LEU
1	E	278	ILE
1	E	293	LEU
1	E	295	THR
1	E	319	SER
1	E	323	ILE
1	E	334	LYS
1	E	342	LYS
1	E	343	THR
1	E	348	ILE
1	E	353	LEU
1	E	355	MET
1	E	372	VAL
1	E	376	LEU
1	E	393	LEU
1	E	400	LEU
1	E	420	MET
1	E	459	PHE

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Mol	Chain	Res	Type
1	E	480	LEU
1	E	489	THR
1	E	500	ILE
1	E	521	GLU
1	E	523	SER
1	E	524	THR
1	E	535	LEU
1	E	559	LEU
1	E	586	ARG
1	E	592	ASN
1	E	629	VAL
1	E	636	ASP
1	E	640	GLU
1	E	659	LYS
1	E	668	LEU
1	E	672	VAL
1	E	673	GLU
1	E	682	PHE
1	E	717	ARG
1	E	721	LEU
1	E	744	ASN
1	E	760	ASN
1	E	772	TYR
1	E	785	ASP
1	E	797	GLN
1	E	798	MET
1	E	804	PHE
1	E	805	SER
1	E	813	SER
1	E	836	SER
1	E	844	MET
1	E	865	GLN
1	E	867	ARG
1	E	871	ASN
1	E	894	SER
1	E	910	ILE
1	E	928	GLN
1	E	931	LEU
1	E	938	SER
1	E	944	LEU
1	E	965	LEU
1	E	966	ASP

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Mol	Chain	Res	Type
1	E	971	ARG
1	E	978	THR
1	E	983	ILE
1	E	984	LEU
1	E	993	THR
1	E	1007	VAL
1	E	1016	VAL
1	E	1017	LEU
1	E	1032	ARG
1	E	1035	ARG
1	E	1041	GLU
1	F	5	PHE
1	F	13	TRP
1	F	15	ILE
1	F	27	ILE
1	F	45	ILE
1	F	49	TYR
1	F	62	THR
1	F	77	TYR
1	F	93	THR
1	F	102	ILE
1	F	115	MET
1	F	121	GLU
1	F	124	GLN
1	F	131	LYS
1	F	138	MET
1	F	152	GLU
1	F	174	ASP
1	F	177	LEU
1	F	193	LEU
1	F	195	LYS
1	F	196	PHE
1	F	205	THR
1	F	219	LEU
1	F	222	THR
1	F	225	VAL
1	F	253	VAL
1	F	278	ILE
1	F	293	LEU
1	F	329	THR
1	F	330	THR
1	F	337	ILE

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Mol	Chain	Res	Type
1	F	353	LEU
1	F	358	PHE
1	F	363	ARG
1	F	376	LEU
1	F	382	VAL
1	F	404	LEU
1	F	429	GLU
1	F	447	MET
1	F	448	VAL
1	F	454	VAL
1	F	463	THR
1	F	472	ILE
1	F	474	ILE
1	F	478	MET
1	F	489	THR
1	F	500	ILE
1	F	510	LYS
1	F	523	SER
1	F	526	HIS
1	F	534	ILE
1	F	535	LEU
1	F	547	ILE
1	F	561	SER
1	F	589	LYS
1	F	599	LEU
1	F	602	GLU
1	F	623	ASN
1	F	624	THR
1	F	626	ILE
1	F	630	SER
1	F	649	MET
1	F	659	LYS
1	F	666	PHE
1	F	668	LEU
1	F	671	ILE
1	F	673	GLU
1	F	686	ASP
1	F	694	LYS
1	F	695	LEU
1	F	708	LYS
1	F	721	LEU
1	F	734	GLU

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Mol	Chain	Res	Type
1	F	746	ILE
1	F	748	THR
1	F	759	VAL
1	F	767	ARG
1	F	785	ASP
1	F	788	ASP
1	F	797	GLN
1	F	804	PHE
1	F	808	ARG
1	F	813	SER
1	F	835	LYS
1	F	836	SER
1	F	843	LEU
1	F	847	LEU
1	F	860	THR
1	F	865	GLN
1	F	868	LEU
1	F	914	LEU
1	F	919	ARG
1	F	922	THR
1	F	929	VAL
1	F	931	LEU
1	F	940	LYS
1	F	945	ILE
1	F	954	ASP
1	F	971	ARG
1	F	977	MET
1	F	980	LEU
1	F	983	ILE
1	F	984	LEU
1	F	986	VAL
1	F	991	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (38) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	34	GLN
1	A	70	ASN
1	A	109	ASN
1	A	151	GLN
1	A	161	ASN
1	A	391	ASN

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Mol	Chain	Res	Type
1	A	733	GLN
1	B	108	GLN
1	B	123	GLN
1	B	124	GLN
1	B	181	GLN
1	B	228	GLN
1	B	622	GLN
1	B	692	HIS
1	B	726	GLN
1	B	865	GLN
1	B	923	ASN
1	C	58	GLN
1	C	104	GLN
1	C	109	ASN
1	C	112	GLN
1	C	120	GLN
1	C	505	HIS
1	C	719	ASN
1	C	760	ASN
1	D	151	GLN
1	D	210	GLN
1	D	211	ASN
1	D	517	ASN
1	D	726	GLN
1	D	865	GLN
1	D	1042	HIS
1	E	68	ASN
1	E	108	GLN
1	E	709	HIS
1	F	109	ASN
1	F	584	GLN
1	F	733	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

6 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	LMT	C	2000	-	36,36,36	1.82	8 (22%)	47,47,47	1.37	8 (17%)
2	LMT	E	2000	-	36,36,36	1.82	10 (27%)	47,47,47	2.51	15 (31%)
2	LMT	F	2000	-	36,36,36	1.89	11 (30%)	47,47,47	2.15	15 (31%)
2	LMT	D	2000	-	36,36,36	1.92	9 (25%)	47,47,47	1.49	9 (19%)
2	LMT	B	2000	-	36,36,36	1.85	9 (25%)	47,47,47	1.58	7 (14%)
2	LMT	A	2000	-	36,36,36	1.98	9 (25%)	47,47,47	1.67	9 (19%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	LMT	C	2000	-	3/3/10/10	12/21/61/61	0/2/2/2
2	LMT	E	2000	-	2/2/10/10	12/21/61/61	0/2/2/2
2	LMT	F	2000	-	3/3/10/10	15/21/61/61	0/2/2/2
2	LMT	D	2000	-	2/2/10/10	14/21/61/61	0/2/2/2
2	LMT	B	2000	-	2/2/10/10	10/21/61/61	0/2/2/2
2	LMT	A	2000	-	2/2/10/10	10/21/61/61	0/2/2/2

All (56) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	2000	LMT	O1'-C1'	4.63	1.48	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	2000	LMT	O5'-C5'	4.45	1.55	1.44
2	F	2000	LMT	O1'-C1'	4.41	1.47	1.40
2	C	2000	LMT	O5'-C5'	4.30	1.54	1.44
2	F	2000	LMT	O5'-C5'	4.27	1.54	1.44
2	B	2000	LMT	O3B-C3B	4.14	1.52	1.43
2	A	2000	LMT	O3B-C3B	4.10	1.52	1.43
2	E	2000	LMT	O1'-C1'	4.06	1.47	1.40
2	A	2000	LMT	O5B-C1B	4.04	1.52	1.41
2	B	2000	LMT	O1'-C1'	3.94	1.46	1.40
2	E	2000	LMT	O5B-C1B	3.92	1.51	1.41
2	E	2000	LMT	O5'-C5'	3.89	1.53	1.44
2	C	2000	LMT	O5B-C1B	3.86	1.51	1.41
2	A	2000	LMT	O1'-C1'	3.86	1.46	1.40
2	B	2000	LMT	O5'-C5'	3.80	1.53	1.44
2	D	2000	LMT	O5B-C1B	3.78	1.51	1.41
2	C	2000	LMT	O5'-C1'	3.73	1.51	1.41
2	D	2000	LMT	O3B-C3B	3.68	1.51	1.43
2	D	2000	LMT	C6'-C5'	-3.67	1.39	1.51
2	D	2000	LMT	O5'-C5'	3.61	1.53	1.44
2	C	2000	LMT	O1'-C1'	3.54	1.46	1.40
2	F	2000	LMT	C6'-C5'	-3.49	1.40	1.51
2	F	2000	LMT	O3B-C3B	3.49	1.51	1.43
2	B	2000	LMT	O5B-C1B	3.46	1.50	1.41
2	D	2000	LMT	O5'-C1'	3.44	1.50	1.41
2	A	2000	LMT	C6'-C5'	-3.44	1.40	1.51
2	F	2000	LMT	O5B-C1B	3.44	1.50	1.41
2	B	2000	LMT	O5'-C1'	3.39	1.50	1.41
2	A	2000	LMT	O5'-C1'	3.08	1.49	1.41
2	C	2000	LMT	O3B-C3B	3.04	1.50	1.43
2	E	2000	LMT	O5'-C1'	3.03	1.49	1.41
2	E	2000	LMT	C6'-C5'	-2.91	1.42	1.51
2	B	2000	LMT	C6'-C5'	-2.91	1.42	1.51
2	F	2000	LMT	O5'-C1'	2.83	1.49	1.41
2	C	2000	LMT	O2'-C2'	2.77	1.49	1.43
2	C	2000	LMT	C6'-C5'	-2.75	1.42	1.51
2	A	2000	LMT	O2'-C2'	2.62	1.49	1.43
2	D	2000	LMT	C3'-C2'	-2.46	1.46	1.52
2	E	2000	LMT	O3'-C3'	2.39	1.48	1.43
2	C	2000	LMT	C3'-C2'	-2.36	1.46	1.52
2	F	2000	LMT	O2'-C2'	2.32	1.48	1.43
2	D	2000	LMT	O2'-C2'	2.32	1.48	1.43
2	B	2000	LMT	O2'-C2'	2.30	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	2000	LMT	O3'-C3'	2.23	1.48	1.43
2	E	2000	LMT	O2B-C2B	2.20	1.48	1.43
2	E	2000	LMT	O1B-C1B	-2.12	1.35	1.41
2	F	2000	LMT	C3'-C2'	-2.11	1.46	1.52
2	E	2000	LMT	O2'-C2'	2.11	1.48	1.43
2	A	2000	LMT	O3'-C3'	2.10	1.47	1.43
2	B	2000	LMT	C4'-C5'	2.09	1.58	1.52
2	F	2000	LMT	O3'-C3'	2.06	1.47	1.43
2	A	2000	LMT	C5-C4	2.06	1.63	1.51
2	F	2000	LMT	C5-C4	2.06	1.63	1.51
2	D	2000	LMT	C5-C4	2.03	1.63	1.51
2	F	2000	LMT	C2-C1	2.02	1.59	1.51
2	E	2000	LMT	O1B-C4'	-2.00	1.38	1.43

All (63) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	2000	LMT	O3B-C3B-C4B	-7.15	93.83	110.35
2	E	2000	LMT	C4B-C3B-C2B	7.14	123.29	110.82
2	A	2000	LMT	O5B-C5B-C4B	5.58	119.82	109.69
2	F	2000	LMT	O1B-C1B-C2B	5.48	122.29	108.10
2	B	2000	LMT	C1'-C2'-C3'	5.35	121.13	110.00
2	E	2000	LMT	O5B-C1B-C2B	5.30	121.57	110.35
2	E	2000	LMT	O3B-C3B-C2B	-4.65	99.61	110.35
2	F	2000	LMT	O6'-C6'-C5'	-4.53	95.74	111.29
2	F	2000	LMT	O1'-C1'-C2'	4.40	115.17	108.30
2	F	2000	LMT	C1B-O1B-C4'	-4.13	107.75	117.96
2	E	2000	LMT	C1B-O5B-C5B	4.08	121.69	113.69
2	F	2000	LMT	C1'-O5'-C5'	4.05	121.64	113.69
2	A	2000	LMT	O5B-C1B-C2B	4.05	118.92	110.35
2	F	2000	LMT	O5'-C5'-C4'	3.84	117.84	109.75
2	D	2000	LMT	C1'-O5'-C5'	3.74	121.03	113.69
2	A	2000	LMT	C1'-O5'-C5'	3.73	121.00	113.69
2	E	2000	LMT	O5B-C5B-C4B	3.73	116.46	109.69
2	E	2000	LMT	C3B-C4B-C5B	3.58	116.63	110.24
2	E	2000	LMT	C1'-C2'-C3'	3.56	117.41	110.00
2	E	2000	LMT	O1B-C4'-C5'	-3.54	99.75	109.45
2	D	2000	LMT	O5B-C5B-C4B	3.54	116.12	109.69
2	F	2000	LMT	O3B-C3B-C4B	-3.54	102.17	110.35
2	B	2000	LMT	O5'-C1'-C2'	3.50	117.77	110.35
2	C	2000	LMT	O5'-C1'-C2'	3.50	117.76	110.35
2	D	2000	LMT	C2'-C3'-C4'	3.40	117.44	109.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	2000	LMT	O5'-C5'-C6'	3.32	114.70	106.44
2	A	2000	LMT	C1B-C2B-C3B	3.30	116.87	110.00
2	F	2000	LMT	C2'-C3'-C4'	3.22	117.03	109.68
2	D	2000	LMT	C4B-C3B-C2B	3.16	116.34	110.82
2	B	2000	LMT	O5B-C5B-C4B	3.12	115.36	109.69
2	F	2000	LMT	O1B-C4'-C3'	3.08	115.47	107.28
2	B	2000	LMT	C2'-C3'-C4'	3.02	116.58	109.68
2	E	2000	LMT	C1B-O1B-C4'	-3.00	110.55	117.96
2	E	2000	LMT	C2'-C3'-C4'	2.92	116.36	109.68
2	C	2000	LMT	C1B-O1B-C4'	-2.89	110.82	117.96
2	E	2000	LMT	O2B-C2B-C3B	2.87	116.98	110.35
2	F	2000	LMT	O5'-C5'-C6'	-2.85	99.34	106.44
2	B	2000	LMT	C1-O1'-C1'	2.78	118.46	113.84
2	D	2000	LMT	O1B-C4'-C3'	2.71	114.48	107.28
2	C	2000	LMT	C4B-C3B-C2B	2.70	115.53	110.82
2	C	2000	LMT	O5'-C5'-C6'	2.69	113.12	106.44
2	D	2000	LMT	C3B-C4B-C5B	2.64	114.95	110.24
2	B	2000	LMT	C4B-C3B-C2B	-2.62	106.25	110.82
2	B	2000	LMT	O3B-C3B-C2B	2.57	116.30	110.35
2	F	2000	LMT	C1'-C2'-C3'	2.56	115.33	110.00
2	F	2000	LMT	C1B-O5B-C5B	-2.53	108.72	113.69
2	D	2000	LMT	O3'-C3'-C2'	-2.50	104.58	110.35
2	C	2000	LMT	C3B-C4B-C5B	2.49	114.68	110.24
2	F	2000	LMT	O4'-C4B-C5B	-2.49	103.11	109.30
2	E	2000	LMT	O1B-C1B-C2B	-2.48	101.66	108.10
2	A	2000	LMT	C2'-C3'-C4'	2.41	115.18	109.68
2	A	2000	LMT	C3B-C4B-C5B	2.39	114.50	110.24
2	F	2000	LMT	O3B-C3B-C2B	2.36	115.80	110.35
2	F	2000	LMT	C1-O1'-C1'	2.35	117.73	113.84
2	D	2000	LMT	C1-O1'-C1'	2.30	117.66	113.84
2	C	2000	LMT	C1'-O5'-C5'	2.29	118.18	113.69
2	A	2000	LMT	O1'-C1'-C2'	2.27	111.85	108.30
2	A	2000	LMT	O4'-C4B-C5B	2.23	114.83	109.30
2	C	2000	LMT	C1B-C2B-C3B	2.18	114.53	110.00
2	D	2000	LMT	C6'-C5'-C4'	-2.14	107.09	113.33
2	A	2000	LMT	C1-O1'-C1'	2.11	117.33	113.84
2	E	2000	LMT	O5B-C5B-C6B	2.08	111.61	106.44
2	C	2000	LMT	O5B-C5B-C4B	2.07	113.45	109.69

All (14) chirality outliers are listed below:

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Mol	Chain	Res	Type	Atom
2	A	2000	LMT	C3'
2	A	2000	LMT	C4B
2	B	2000	LMT	C3'
2	B	2000	LMT	C4B
2	C	2000	LMT	C2'
2	C	2000	LMT	C3'
2	C	2000	LMT	C4B
2	D	2000	LMT	C3'
2	D	2000	LMT	C4B
2	E	2000	LMT	C3'
2	E	2000	LMT	C4B
2	F	2000	LMT	C2B
2	F	2000	LMT	C4B
2	F	2000	LMT	C1B

All (73) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	C	2000	LMT	C2'-C1'-O1'-C1
2	C	2000	LMT	O5'-C1'-O1'-C1
2	D	2000	LMT	O5'-C1'-O1'-C1
2	F	2000	LMT	C2-C1-O1'-C1'
2	C	2000	LMT	O5B-C5B-C6B-O6B
2	F	2000	LMT	O5B-C5B-C6B-O6B
2	D	2000	LMT	O5B-C5B-C6B-O6B
2	D	2000	LMT	O5'-C5'-C6'-O6'
2	A	2000	LMT	C4B-C5B-C6B-O6B
2	A	2000	LMT	O5'-C5'-C6'-O6'
2	D	2000	LMT	C4B-C5B-C6B-O6B
2	F	2000	LMT	C4B-C5B-C6B-O6B
2	A	2000	LMT	O5B-C5B-C6B-O6B
2	D	2000	LMT	C4'-C5'-C6'-O6'
2	C	2000	LMT	C4B-C5B-C6B-O6B
2	F	2000	LMT	O5B-C1B-O1B-C4'
2	A	2000	LMT	C4'-C5'-C6'-O6'
2	D	2000	LMT	C2'-C1'-O1'-C1
2	B	2000	LMT	O5B-C5B-C6B-O6B
2	F	2000	LMT	O1'-C1-C2-C3
2	C	2000	LMT	C11-C10-C9-C8
2	B	2000	LMT	C4-C5-C6-C7
2	B	2000	LMT	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
2	E	2000	LMT	C6-C7-C8-C9
2	A	2000	LMT	C3-C4-C5-C6
2	B	2000	LMT	C3-C4-C5-C6
2	D	2000	LMT	C6-C7-C8-C9
2	E	2000	LMT	C3-C4-C5-C6
2	B	2000	LMT	C4B-C5B-C6B-O6B
2	D	2000	LMT	C4-C5-C6-C7
2	C	2000	LMT	C2-C3-C4-C5
2	E	2000	LMT	C2-C3-C4-C5
2	A	2000	LMT	O5B-C1B-O1B-C4'
2	E	2000	LMT	C1-C2-C3-C4
2	C	2000	LMT	C9-C10-C11-C12
2	D	2000	LMT	C7-C8-C9-C10
2	B	2000	LMT	C7-C8-C9-C10
2	F	2000	LMT	C2'-C1'-O1'-C1
2	E	2000	LMT	C5-C6-C7-C8
2	F	2000	LMT	C5'-C4'-O1B-C1B
2	F	2000	LMT	C7-C8-C9-C10
2	D	2000	LMT	O1'-C1-C2-C3
2	E	2000	LMT	O5B-C5B-C6B-O6B
2	A	2000	LMT	C5-C6-C7-C8
2	D	2000	LMT	C5-C6-C7-C8
2	B	2000	LMT	C9-C10-C11-C12
2	B	2000	LMT	C2B-C1B-O1B-C4'
2	F	2000	LMT	C5-C6-C7-C8
2	A	2000	LMT	C7-C8-C9-C10
2	F	2000	LMT	C9-C10-C11-C12
2	B	2000	LMT	O5B-C1B-O1B-C4'
2	C	2000	LMT	C7-C8-C9-C10
2	D	2000	LMT	C2-C3-C4-C5
2	C	2000	LMT	C3-C4-C5-C6
2	F	2000	LMT	C3'-C4'-O1B-C1B
2	E	2000	LMT	C9-C10-C11-C12
2	E	2000	LMT	O5B-C1B-O1B-C4'
2	E	2000	LMT	C2'-C1'-O1'-C1
2	C	2000	LMT	O1'-C1-C2-C3
2	B	2000	LMT	C1-C2-C3-C4
2	F	2000	LMT	O5'-C1'-O1'-C1
2	A	2000	LMT	C2-C3-C4-C5
2	F	2000	LMT	C6-C7-C8-C9
2	E	2000	LMT	C11-C10-C9-C8
2	D	2000	LMT	C11-C10-C9-C8

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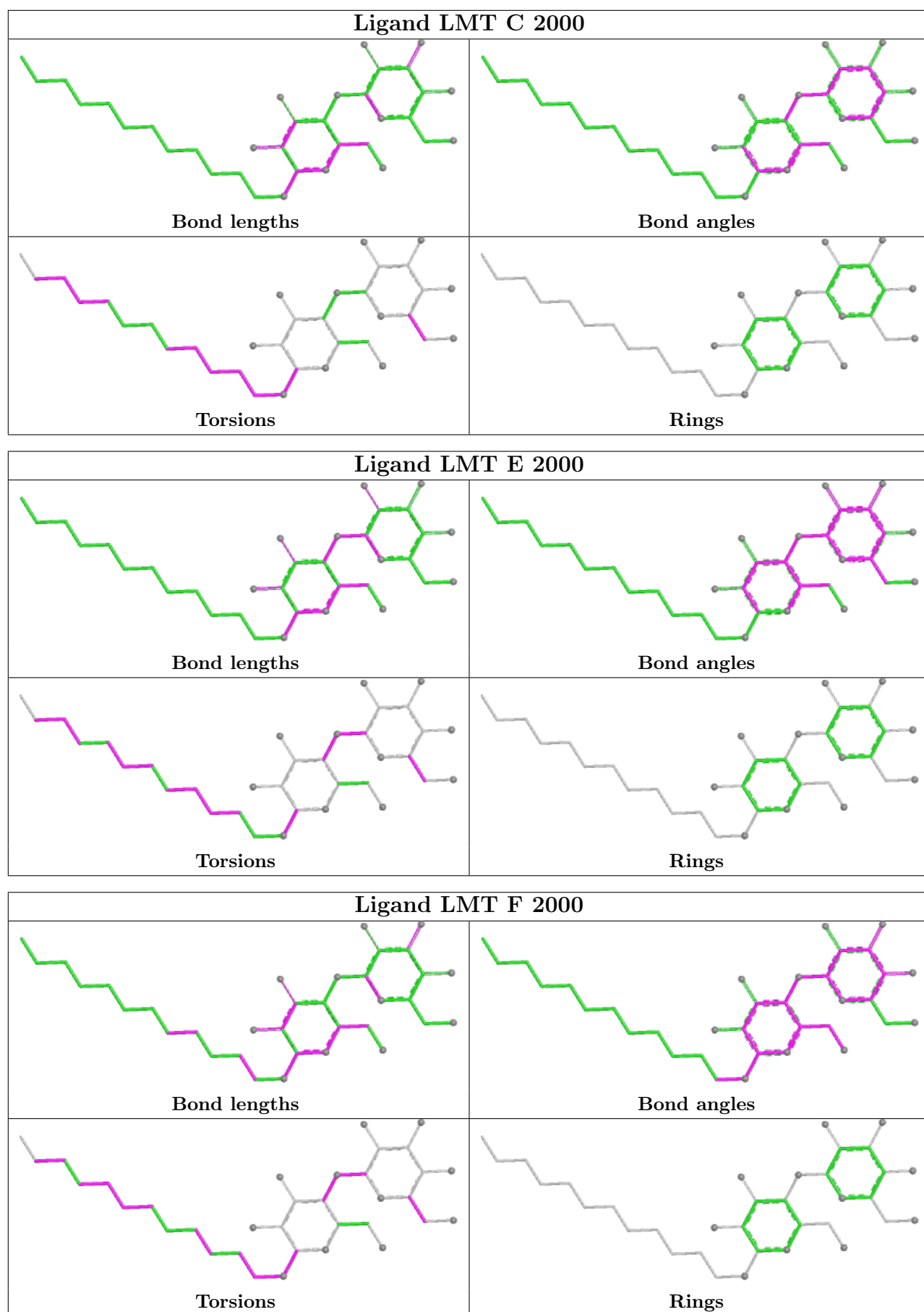
Mol	Chain	Res	Type	Atoms
2	A	2000	LMT	C2B-C1B-O1B-C4'
2	F	2000	LMT	C2-C3-C4-C5
2	E	2000	LMT	C3'-C4'-O1B-C1B
2	E	2000	LMT	C5'-C4'-O1B-C1B
2	D	2000	LMT	O5B-C1B-O1B-C4'
2	F	2000	LMT	C2B-C1B-O1B-C4'
2	C	2000	LMT	C1-C2-C3-C4
2	C	2000	LMT	C2-C1-O1'-C1'

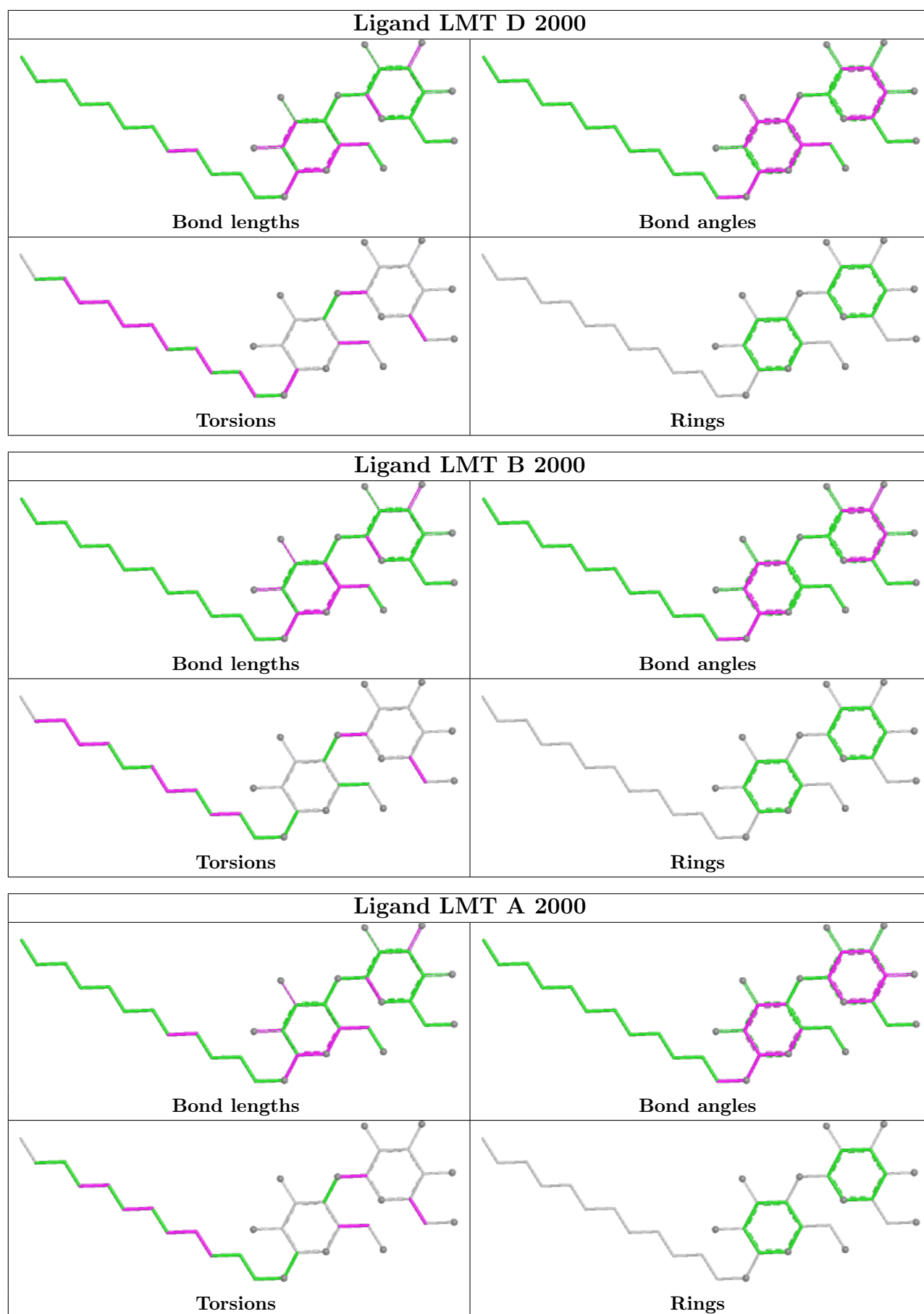
There are no ring outliers.

6 monomers are involved in 38 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	2000	LMT	5	0
2	E	2000	LMT	17	0
2	F	2000	LMT	2	0
2	D	2000	LMT	4	0
2	B	2000	LMT	3	0
2	A	2000	LMT	7	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

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

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1044/1069 (97%)	-0.38	11 (1%) 80 69	13, 49, 91, 117	0
1	B	1042/1069 (97%)	-0.19	31 (2%) 50 37	11, 49, 101, 139	0
1	C	1042/1069 (97%)	-0.17	27 (2%) 56 42	8, 62, 104, 135	0
1	D	1044/1069 (97%)	-0.48	6 (0%) 89 81	9, 36, 74, 116	0
1	E	1042/1069 (97%)	-0.58	3 (0%) 94 89	7, 28, 59, 88	0
1	F	1042/1069 (97%)	-0.57	3 (0%) 94 89	5, 30, 61, 103	0
All	All	6256/6414 (97%)	-0.40	81 (1%) 77 65	5, 40, 91, 139	0

All (81) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	715	SER	15.5
1	B	689	GLY	7.9
1	C	720	GLY	7.0
1	C	856	GLY	5.2
1	B	870	GLY	5.1
1	B	71	GLY	5.0
1	B	170	SER	4.8
1	B	868	LEU	4.6
1	B	79	SER	4.6
1	B	869	SER	4.4
1	C	426	PRO	4.0
1	C	116	PRO	3.9
1	C	301	ASP	3.7
1	B	690	LEU	3.6
1	B	167	SER	3.6
1	B	78	MET	3.4
1	A	1034	SER	3.3
1	C	690	LEU	3.3
1	B	834	GLY	3.3

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Mol	Chain	Res	Type	RSRZ
1	F	511	GLY	3.3
1	C	820	ASN	3.3
1	B	295	THR	3.3
1	C	719	ASN	3.2
1	A	870	GLY	3.1
1	B	1034	SER	3.1
1	D	833	PRO	3.0
1	C	496	MET	3.0
1	C	458	PHE	2.9
1	C	712	MET	2.9
1	C	826	GLU	2.9
1	B	714	THR	2.9
1	B	833	PRO	2.9
1	A	1033	PHE	2.8
1	D	320	GLY	2.8
1	C	427	PRO	2.7
1	C	676	THR	2.7
1	C	494	ALA	2.6
1	B	874	PRO	2.6
1	D	869	SER	2.6
1	A	869	SER	2.6
1	C	76	MET	2.5
1	A	678	THR	2.5
1	B	683	GLU	2.5
1	C	54	ALA	2.5
1	D	1034	SER	2.4
1	A	167	SER	2.4
1	B	853	THR	2.4
1	E	833	PRO	2.4
1	B	859	TRP	2.4
1	B	619	GLY	2.4
1	E	678	THR	2.4
1	C	872	GLN	2.3
1	C	858	ASP	2.3
1	A	334	LYS	2.3
1	B	872	GLN	2.3
1	A	871	ASN	2.3
1	B	871	ASN	2.3
1	E	834	GLY	2.3
1	B	292	LYS	2.3
1	B	72	ILE	2.3
1	C	260	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
1	C	499	PRO	2.2
1	D	620	ARG	2.2
1	B	677	ALA	2.2
1	F	510	LYS	2.2
1	C	33	ALA	2.2
1	A	148	THR	2.2
1	C	498	LYS	2.2
1	A	290	GLY	2.2
1	B	711	ASP	2.1
1	B	294	ALA	2.1
1	C	827	ILE	2.1
1	F	48	SER	2.1
1	B	858	ASP	2.1
1	B	296	GLY	2.1
1	C	838	GLY	2.1
1	B	174	ASP	2.1
1	C	842	GLU	2.0
1	A	1040	ILE	2.0
1	C	714	THR	2.0
1	D	1043	SER	2.0

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

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

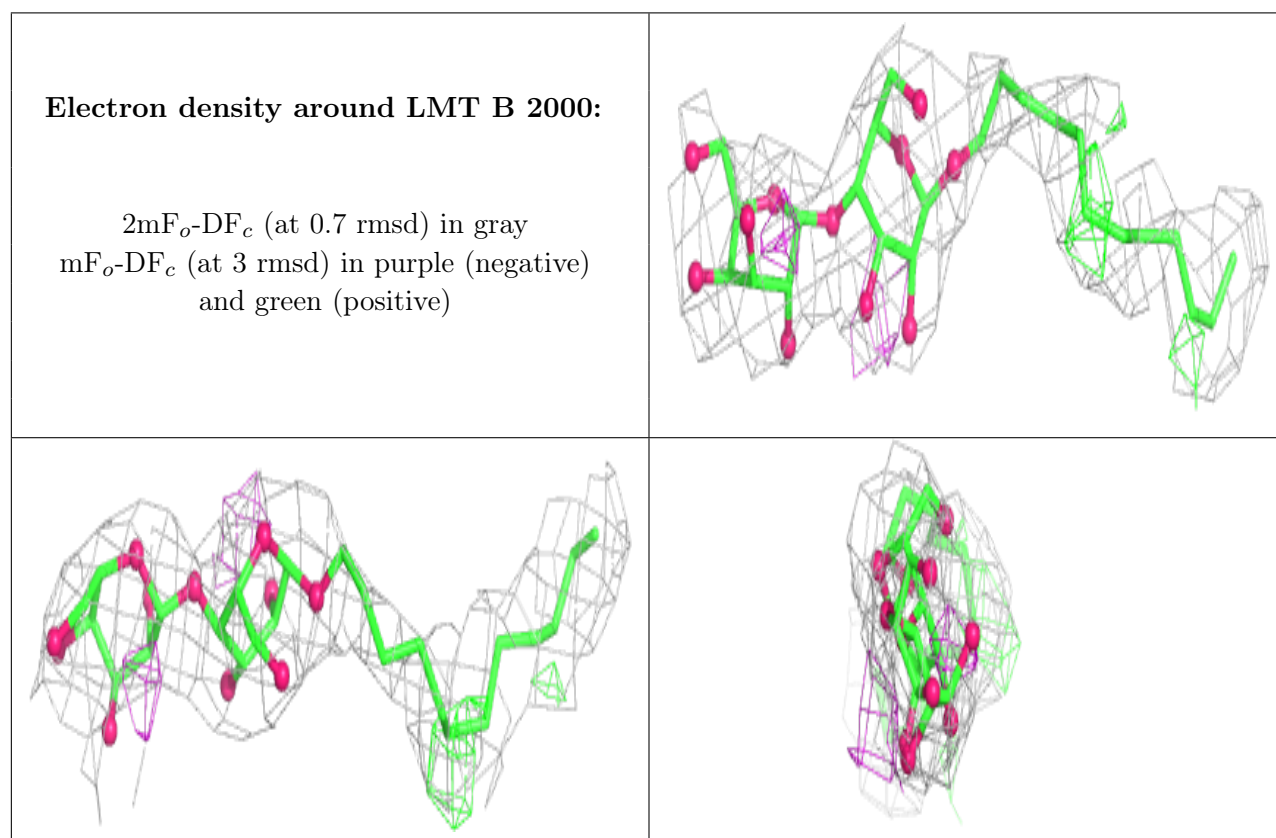
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	LMT	B	2000	35/35	0.83	0.34	11,43,62,64	0
2	LMT	D	2000	35/35	0.86	0.37	20,39,53,62	0
2	LMT	E	2000	35/35	0.86	0.38	14,53,70,88	0

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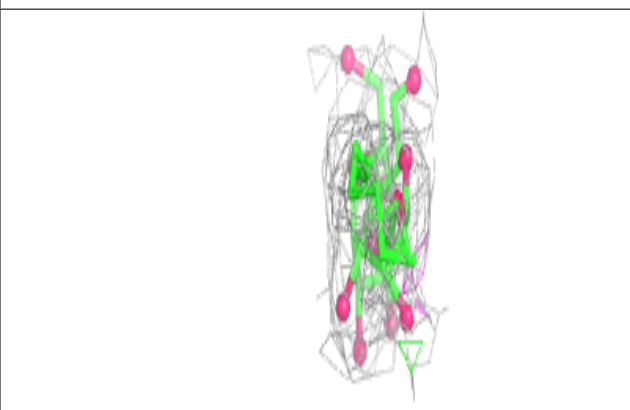
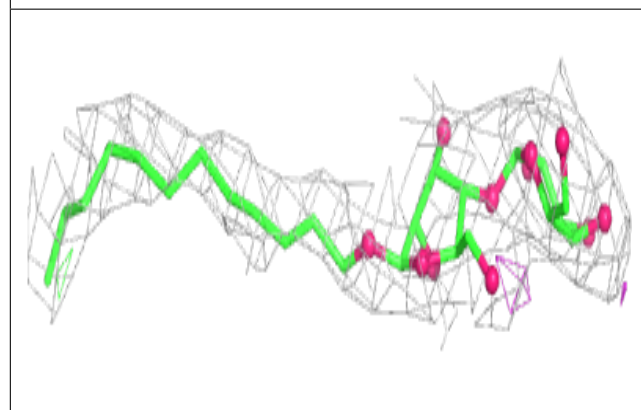
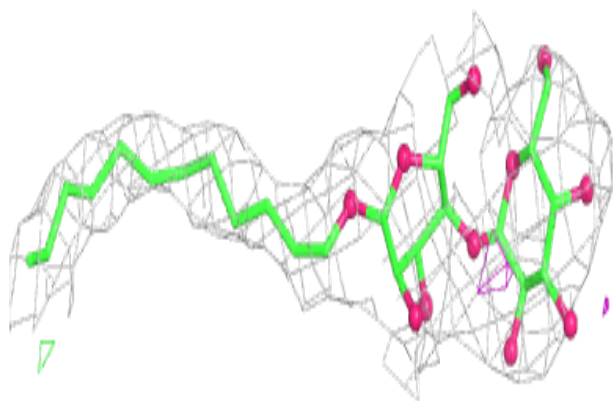
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	LMT	C	2000	35/35	0.88	0.38	12,33,43,47	0
2	LMT	F	2000	35/35	0.88	0.30	14,40,70,74	0
2	LMT	A	2000	35/35	0.89	0.30	31,50,62,70	0

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

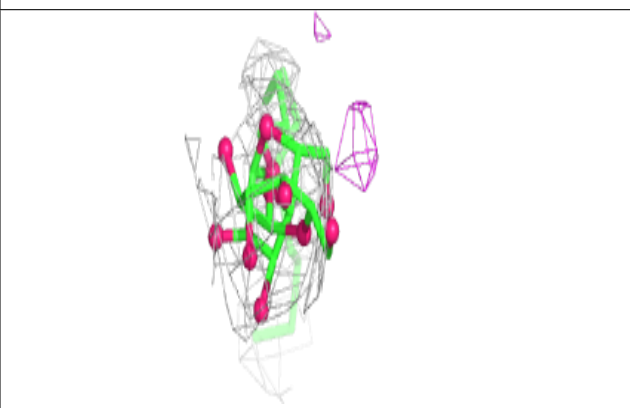
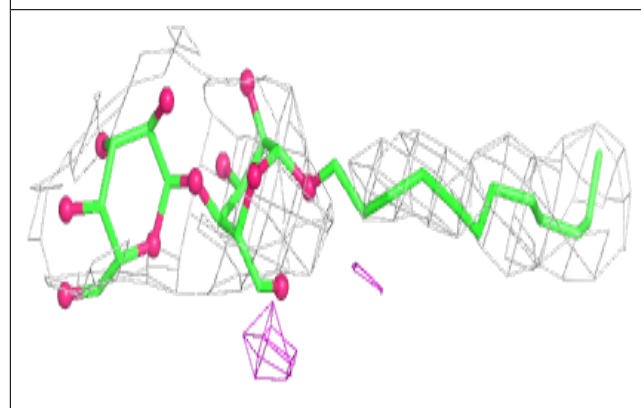
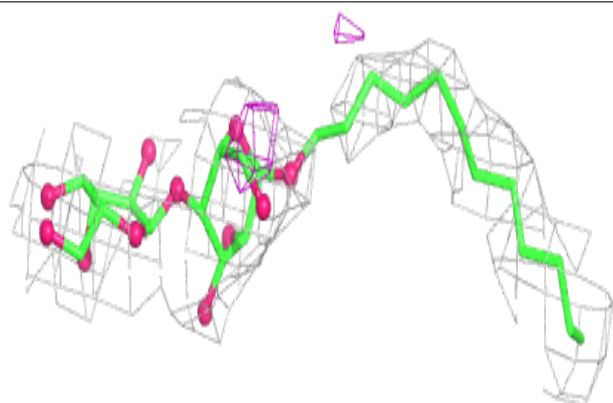


Electron density around LMT D 2000:

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

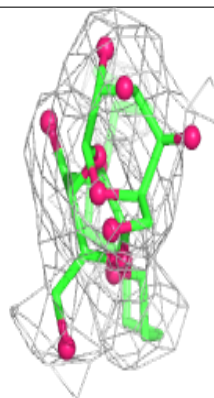
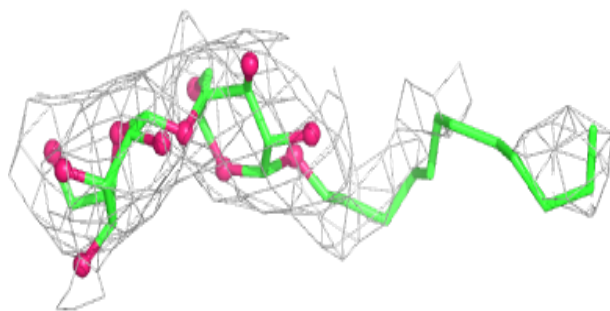
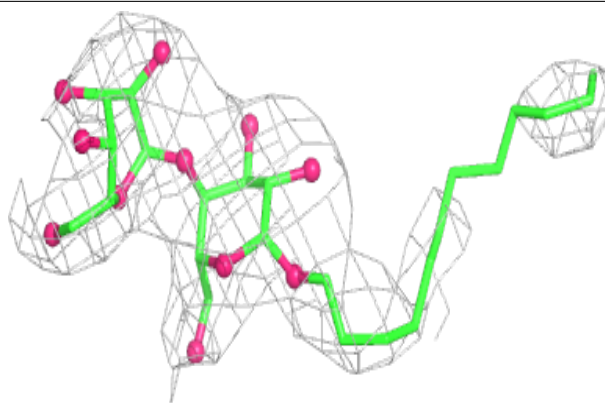
**Electron density around LMT E 2000:**

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

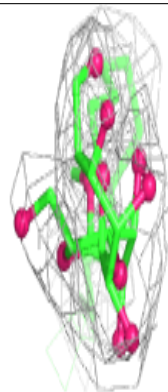
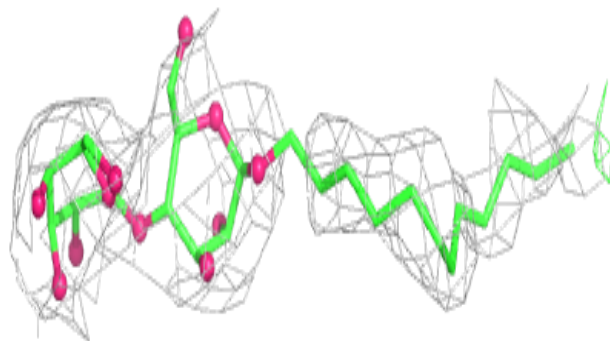
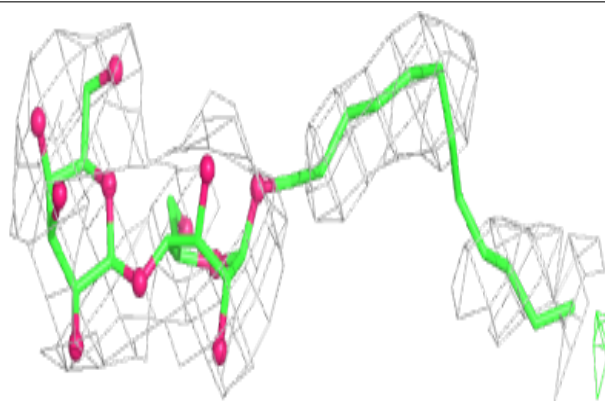


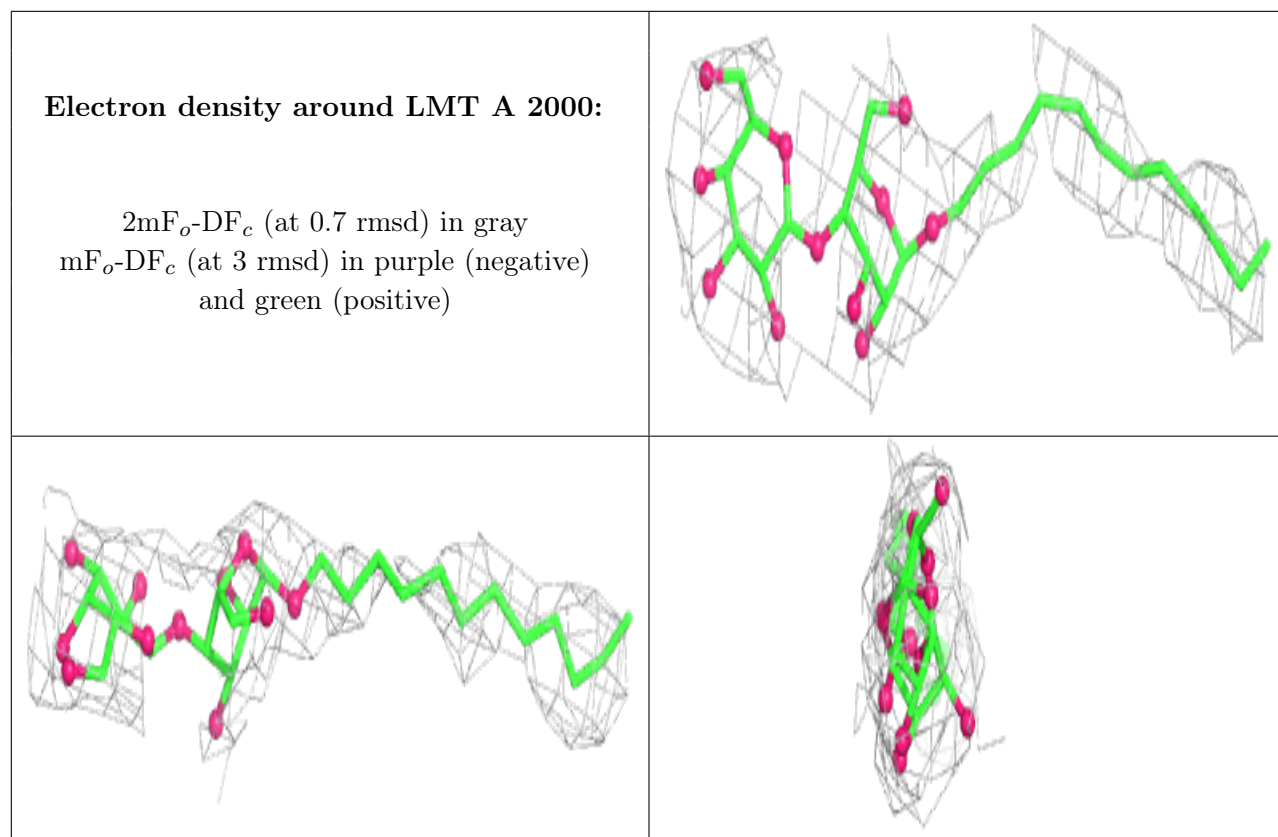
Electron density around LMT C 2000:

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

**Electron density around LMT F 2000:**

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





6.5 Other polymers [i](#)

There are no such residues in this entry.