



# Full wwPDB/EMDatabank EM Map/Model Validation Report ⓘ

Jul 24, 2017 – 04:48 PM EDT

PDB ID : 4V8L  
EMDB ID: : EMD-2238  
Title : Cryo-EM Structure of the Mycobacterial Fatty Acid Synthase  
Authors : Boehringer, D.; Ban, N.; Leibundgut, M.  
Deposited on : unknown  
Resolution : 7.50 Å(reported)  
Based on PDB ID : 2UV8

This is a Full wwPDB/EMDatabank EM Map/Model Validation Report  
for a publicly released PDB/EMDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

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MolProbity : 4.02b-467  
Mogul : 1.7.2 (RC1), CSD as538be (2017)  
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : rb-20029824

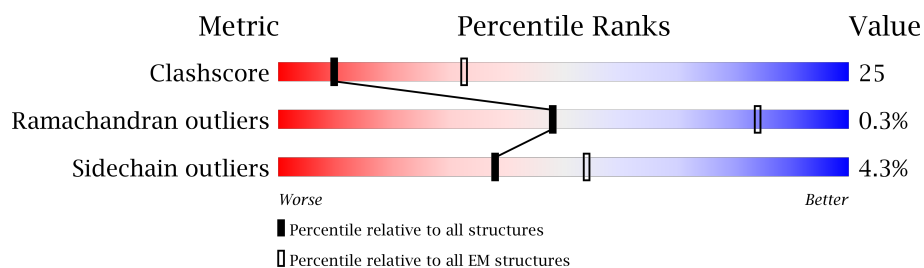
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 7.50 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	125131	1336
Ramachandran outliers	121729	1120
Sidechain outliers	121581	1026

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. 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  $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	3089	56% 33% • 9%
1	B	3089	56% 33% • 9%
1	C	3089	56% 33% • 9%
1	D	3089	88% • 9%
1	E	3089	88% • 9%
1	F	3089	88% • 9%

## 2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 126306 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called FATTY ACID SYNTHASE.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	D	2822	Total	C	N	O	S	0	0
			21020	13294	3662	3998	66		
1	E	2822	Total	C	N	O	S	0	0
			21020	13294	3662	3998	66		
1	F	2822	Total	C	N	O	S	0	0
			21020	13294	3662	3998	66		
1	A	2822	Total	C	N	O	S	0	0
			21020	13294	3662	3998	66		
1	B	2822	Total	C	N	O	S	0	0
			21020	13294	3662	3998	66		
1	C	2822	Total	C	N	O	S	0	0
			21020	13294	3662	3998	66		

There are 1086 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	929	UNK	GLU	CONFLICT	UNP A0R1H7
D	930	UNK	PRO	CONFLICT	UNP A0R1H7
D	931	UNK	VAL	CONFLICT	UNP A0R1H7
D	932	UNK	GLU	CONFLICT	UNP A0R1H7
D	933	UNK	VAL	CONFLICT	UNP A0R1H7
D	934	UNK	LEU	CONFLICT	UNP A0R1H7
D	935	UNK	SER	CONFLICT	UNP A0R1H7
D	936	UNK	ARG	CONFLICT	UNP A0R1H7
D	937	UNK	ARG	CONFLICT	UNP A0R1H7
D	938	UNK	GLN	CONFLICT	UNP A0R1H7
D	939	UNK	ALA	CONFLICT	UNP A0R1H7
D	940	UNK	ARG	CONFLICT	UNP A0R1H7
D	941	UNK	ARG	CONFLICT	UNP A0R1H7
D	942	UNK	ASP	CONFLICT	UNP A0R1H7
D	943	UNK	ALA	CONFLICT	UNP A0R1H7
D	944	UNK	SER	CONFLICT	UNP A0R1H7
D	974	UNK	THR	CONFLICT	UNP A0R1H7
D	975	UNK	GLU	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
D	976	UNK	TRP	CONFLICT	UNP A0R1H7
D	977	UNK	GLN	CONFLICT	UNP A0R1H7
D	978	UNK	VAL	CONFLICT	UNP A0R1H7
D	979	UNK	ARG	CONFLICT	UNP A0R1H7
D	980	UNK	GLU	CONFLICT	UNP A0R1H7
D	981	UNK	GLY	CONFLICT	UNP A0R1H7
D	982	UNK	SER	CONFLICT	UNP A0R1H7
D	983	UNK	ASP	CONFLICT	UNP A0R1H7
D	984	UNK	ASN	CONFLICT	UNP A0R1H7
D	985	UNK	ARG	CONFLICT	UNP A0R1H7
D	986	UNK	SER	CONFLICT	UNP A0R1H7
D	987	UNK	ALA	CONFLICT	UNP A0R1H7
D	988	UNK	SER	CONFLICT	UNP A0R1H7
D	989	UNK	HIS	CONFLICT	UNP A0R1H7
D	990	UNK	PRO	CONFLICT	UNP A0R1H7
D	991	UNK	SER	CONFLICT	UNP A0R1H7
D	992	UNK	THR	CONFLICT	UNP A0R1H7
D	993	UNK	GLY	CONFLICT	UNP A0R1H7
D	994	UNK	ALA	CONFLICT	UNP A0R1H7
D	995	UNK	ARG	CONFLICT	UNP A0R1H7
D	996	UNK	LEU	CONFLICT	UNP A0R1H7
D	997	UNK	GLU	CONFLICT	UNP A0R1H7
D	998	UNK	VAL	CONFLICT	UNP A0R1H7
D	999	UNK	ALA	CONFLICT	UNP A0R1H7
D	1000	UNK	ASP	CONFLICT	UNP A0R1H7
D	1001	UNK	ASP	CONFLICT	UNP A0R1H7
D	1002	UNK	GLN	CONFLICT	UNP A0R1H7
D	1003	UNK	HIS	CONFLICT	UNP A0R1H7
D	1004	UNK	VAL	CONFLICT	UNP A0R1H7
D	1005	UNK	VAL	CONFLICT	UNP A0R1H7
D	1006	UNK	LEU	CONFLICT	UNP A0R1H7
D	1007	UNK	SER	CONFLICT	UNP A0R1H7
D	1008	UNK	VAL	CONFLICT	UNP A0R1H7
D	1009	UNK	PRO	CONFLICT	UNP A0R1H7
D	1010	UNK	LEU	CONFLICT	UNP A0R1H7
D	1011	UNK	SER	CONFLICT	UNP A0R1H7
D	1012	UNK	GLY	CONFLICT	UNP A0R1H7
D	1013	UNK	THR	CONFLICT	UNP A0R1H7
D	1014	UNK	TRP	CONFLICT	UNP A0R1H7
D	1196	UNK	GLY	CONFLICT	UNP A0R1H7
D	1197	UNK	ARG	CONFLICT	UNP A0R1H7
D	1198	UNK	THR	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
D	1199	UNK	GLY	CONFLICT	UNP A0R1H7
D	1200	UNK	ALA	CONFLICT	UNP A0R1H7
D	1201	UNK	ALA	CONFLICT	UNP A0R1H7
D	1202	UNK	GLU	CONFLICT	UNP A0R1H7
D	1203	UNK	LEU	CONFLICT	UNP A0R1H7
D	1204	UNK	THR	CONFLICT	UNP A0R1H7
D	1205	UNK	ASP	CONFLICT	UNP A0R1H7
D	1206	UNK	PRO	CONFLICT	UNP A0R1H7
D	1207	UNK	VAL	CONFLICT	UNP A0R1H7
D	1208	UNK	ARG	CONFLICT	UNP A0R1H7
D	1209	UNK	ALA	CONFLICT	UNP A0R1H7
D	1210	UNK	GLY	CONFLICT	UNP A0R1H7
D	1211	UNK	GLY	CONFLICT	UNP A0R1H7
D	1212	UNK	ALA	CONFLICT	UNP A0R1H7
D	1213	UNK	ILE	CONFLICT	UNP A0R1H7
D	1214	UNK	SER	CONFLICT	UNP A0R1H7
D	1215	UNK	ASP	CONFLICT	UNP A0R1H7
D	1216	UNK	ASN	CONFLICT	UNP A0R1H7
D	1217	UNK	ALA	CONFLICT	UNP A0R1H7
D	1218	UNK	THR	CONFLICT	UNP A0R1H7
D	1219	UNK	ASP	CONFLICT	UNP A0R1H7
D	1220	UNK	THR	CONFLICT	UNP A0R1H7
D	1221	UNK	PRO	CONFLICT	UNP A0R1H7
D	1222	UNK	ARG	CONFLICT	UNP A0R1H7
D	1223	UNK	ARG	CONFLICT	UNP A0R1H7
D	1224	UNK	ARG	CONFLICT	UNP A0R1H7
D	1225	UNK	ARG	CONFLICT	UNP A0R1H7
D	1226	UNK	ARG	CONFLICT	UNP A0R1H7
D	1227	UNK	ASP	CONFLICT	UNP A0R1H7
D	2076	UNK	GLY	CONFLICT	UNP A0R1H7
D	2077	UNK	ASP	CONFLICT	UNP A0R1H7
D	2078	UNK	ILE	CONFLICT	UNP A0R1H7
D	2079	UNK	ASP	CONFLICT	UNP A0R1H7
D	2080	UNK	ALA	CONFLICT	UNP A0R1H7
D	2081	UNK	GLN	CONFLICT	UNP A0R1H7
D	2082	UNK	TRP	CONFLICT	UNP A0R1H7
D	2083	UNK	GLU	CONFLICT	UNP A0R1H7
D	2084	UNK	GLN	CONFLICT	UNP A0R1H7
D	2085	UNK	LEU	CONFLICT	UNP A0R1H7
D	2086	UNK	SER	CONFLICT	UNP A0R1H7
D	2087	UNK	GLN	CONFLICT	UNP A0R1H7
D	2088	UNK	ARG	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
D	2089	UNK	PHE	CONFLICT	UNP A0R1H7
D	2090	UNK	GLU	CONFLICT	UNP A0R1H7
D	2091	UNK	GLY	CONFLICT	UNP A0R1H7
D	2092	UNK	THR	CONFLICT	UNP A0R1H7
D	2093	UNK	GLY	CONFLICT	UNP A0R1H7
D	2094	UNK	HIS	CONFLICT	UNP A0R1H7
D	2095	UNK	VAL	CONFLICT	UNP A0R1H7
D	2096	UNK	VAL	CONFLICT	UNP A0R1H7
D	2097	UNK	ALA	CONFLICT	UNP A0R1H7
D	2098	UNK	THR	CONFLICT	UNP A0R1H7
D	2099	UNK	GLN	CONFLICT	UNP A0R1H7
D	2100	UNK	ALA	CONFLICT	UNP A0R1H7
D	2101	UNK	ASN	CONFLICT	UNP A0R1H7
D	2102	UNK	TRP	CONFLICT	UNP A0R1H7
D	2103	UNK	TRP	CONFLICT	UNP A0R1H7
D	2104	UNK	GLN	CONFLICT	UNP A0R1H7
D	2105	UNK	GLY	CONFLICT	UNP A0R1H7
D	2106	UNK	LYS	CONFLICT	UNP A0R1H7
D	2107	UNK	ALA	CONFLICT	UNP A0R1H7
D	2108	UNK	LEU	CONFLICT	UNP A0R1H7
D	2109	UNK	ALA	CONFLICT	UNP A0R1H7
D	2110	UNK	ALA	CONFLICT	UNP A0R1H7
D	2111	UNK	GLY	CONFLICT	UNP A0R1H7
D	2112	UNK	ARG	CONFLICT	UNP A0R1H7
D	2113	UNK	ASN	CONFLICT	UNP A0R1H7
D	2114	UNK	VAL	CONFLICT	UNP A0R1H7
D	2115	UNK	HIS	CONFLICT	UNP A0R1H7
D	2116	UNK	ALA	CONFLICT	UNP A0R1H7
D	2117	UNK	SER	CONFLICT	UNP A0R1H7
D	2118	UNK	LEU	CONFLICT	UNP A0R1H7
D	2119	UNK	PHE	CONFLICT	UNP A0R1H7
D	2120	UNK	GLY	CONFLICT	UNP A0R1H7
D	2121	UNK	ARG	CONFLICT	UNP A0R1H7
D	2122	UNK	ILE	CONFLICT	UNP A0R1H7
D	2123	UNK	ALA	CONFLICT	UNP A0R1H7
D	2124	UNK	ALA	CONFLICT	UNP A0R1H7
D	2125	UNK	GLY	CONFLICT	UNP A0R1H7
D	2126	UNK	ALA	CONFLICT	UNP A0R1H7
D	2127	UNK	GLU	CONFLICT	UNP A0R1H7
D	2128	UNK	ASN	CONFLICT	UNP A0R1H7
D	2129	UNK	PRO	CONFLICT	UNP A0R1H7
D	2130	UNK	GLY	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
D	2131	UNK	LYS	CONFLICT	UNP A0R1H7
D	2132	UNK	GLY	CONFLICT	UNP A0R1H7
D	2133	UNK	ARG	CONFLICT	UNP A0R1H7
D	2134	UNK	TYR	CONFLICT	UNP A0R1H7
D	2135	UNK	SER	CONFLICT	UNP A0R1H7
D	2422	UNK	GLU	CONFLICT	UNP A0R1H7
D	2423	UNK	SER	CONFLICT	UNP A0R1H7
D	2424	UNK	ASP	CONFLICT	UNP A0R1H7
D	2425	UNK	ASP	CONFLICT	UNP A0R1H7
D	2426	UNK	GLU	CONFLICT	UNP A0R1H7
D	2427	UNK	ALA	CONFLICT	UNP A0R1H7
D	2428	UNK	PRO	CONFLICT	UNP A0R1H7
D	2429	UNK	ALA	CONFLICT	UNP A0R1H7
D	2430	UNK	GLY	CONFLICT	UNP A0R1H7
D	2431	UNK	THR	CONFLICT	UNP A0R1H7
D	2432	UNK	ILE	CONFLICT	UNP A0R1H7
D	2433	UNK	ARG	CONFLICT	UNP A0R1H7
D	2434	UNK	ALA	CONFLICT	UNP A0R1H7
D	2435	UNK	LEU	CONFLICT	UNP A0R1H7
D	2436	UNK	PRO	CONFLICT	UNP A0R1H7
D	2437	UNK	SER	CONFLICT	UNP A0R1H7
D	2438	UNK	PRO	CONFLICT	UNP A0R1H7
D	2439	UNK	PRO	CONFLICT	UNP A0R1H7
D	2440	UNK	ARG	CONFLICT	UNP A0R1H7
D	2441	UNK	GLY	CONFLICT	UNP A0R1H7
D	2442	UNK	TYR	CONFLICT	UNP A0R1H7
D	2443	UNK	ASN	CONFLICT	UNP A0R1H7
D	2444	UNK	PRO	CONFLICT	UNP A0R1H7
D	2445	UNK	ALA	CONFLICT	UNP A0R1H7
D	2446	UNK	PRO	CONFLICT	UNP A0R1H7
D	2447	UNK	ALA	CONFLICT	UNP A0R1H7
D	2448	UNK	PRO	CONFLICT	UNP A0R1H7
D	2449	UNK	GLU	CONFLICT	UNP A0R1H7
D	2450	UNK	TRP	CONFLICT	UNP A0R1H7
D	2451	UNK	ASP	CONFLICT	UNP A0R1H7
D	2452	UNK	ASP	CONFLICT	UNP A0R1H7
D	2453	UNK	LEU	CONFLICT	UNP A0R1H7
E	929	UNK	GLU	CONFLICT	UNP A0R1H7
E	930	UNK	PRO	CONFLICT	UNP A0R1H7
E	931	UNK	VAL	CONFLICT	UNP A0R1H7
E	932	UNK	GLU	CONFLICT	UNP A0R1H7
E	933	UNK	VAL	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
E	934	UNK	LEU	CONFLICT	UNP A0R1H7
E	935	UNK	SER	CONFLICT	UNP A0R1H7
E	936	UNK	ARG	CONFLICT	UNP A0R1H7
E	937	UNK	ARG	CONFLICT	UNP A0R1H7
E	938	UNK	GLN	CONFLICT	UNP A0R1H7
E	939	UNK	ALA	CONFLICT	UNP A0R1H7
E	940	UNK	ARG	CONFLICT	UNP A0R1H7
E	941	UNK	ARG	CONFLICT	UNP A0R1H7
E	942	UNK	ASP	CONFLICT	UNP A0R1H7
E	943	UNK	ALA	CONFLICT	UNP A0R1H7
E	944	UNK	SER	CONFLICT	UNP A0R1H7
E	974	UNK	THR	CONFLICT	UNP A0R1H7
E	975	UNK	GLU	CONFLICT	UNP A0R1H7
E	976	UNK	TRP	CONFLICT	UNP A0R1H7
E	977	UNK	GLN	CONFLICT	UNP A0R1H7
E	978	UNK	VAL	CONFLICT	UNP A0R1H7
E	979	UNK	ARG	CONFLICT	UNP A0R1H7
E	980	UNK	GLU	CONFLICT	UNP A0R1H7
E	981	UNK	GLY	CONFLICT	UNP A0R1H7
E	982	UNK	SER	CONFLICT	UNP A0R1H7
E	983	UNK	ASP	CONFLICT	UNP A0R1H7
E	984	UNK	ASN	CONFLICT	UNP A0R1H7
E	985	UNK	ARG	CONFLICT	UNP A0R1H7
E	986	UNK	SER	CONFLICT	UNP A0R1H7
E	987	UNK	ALA	CONFLICT	UNP A0R1H7
E	988	UNK	SER	CONFLICT	UNP A0R1H7
E	989	UNK	HIS	CONFLICT	UNP A0R1H7
E	990	UNK	PRO	CONFLICT	UNP A0R1H7
E	991	UNK	SER	CONFLICT	UNP A0R1H7
E	992	UNK	THR	CONFLICT	UNP A0R1H7
E	993	UNK	GLY	CONFLICT	UNP A0R1H7
E	994	UNK	ALA	CONFLICT	UNP A0R1H7
E	995	UNK	ARG	CONFLICT	UNP A0R1H7
E	996	UNK	LEU	CONFLICT	UNP A0R1H7
E	997	UNK	GLU	CONFLICT	UNP A0R1H7
E	998	UNK	VAL	CONFLICT	UNP A0R1H7
E	999	UNK	ALA	CONFLICT	UNP A0R1H7
E	1000	UNK	ASP	CONFLICT	UNP A0R1H7
E	1001	UNK	ASP	CONFLICT	UNP A0R1H7
E	1002	UNK	GLN	CONFLICT	UNP A0R1H7
E	1003	UNK	HIS	CONFLICT	UNP A0R1H7
E	1004	UNK	VAL	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
E	1005	UNK	VAL	CONFLICT	UNP A0R1H7
E	1006	UNK	LEU	CONFLICT	UNP A0R1H7
E	1007	UNK	SER	CONFLICT	UNP A0R1H7
E	1008	UNK	VAL	CONFLICT	UNP A0R1H7
E	1009	UNK	PRO	CONFLICT	UNP A0R1H7
E	1010	UNK	LEU	CONFLICT	UNP A0R1H7
E	1011	UNK	SER	CONFLICT	UNP A0R1H7
E	1012	UNK	GLY	CONFLICT	UNP A0R1H7
E	1013	UNK	THR	CONFLICT	UNP A0R1H7
E	1014	UNK	TRP	CONFLICT	UNP A0R1H7
E	1196	UNK	GLY	CONFLICT	UNP A0R1H7
E	1197	UNK	ARG	CONFLICT	UNP A0R1H7
E	1198	UNK	THR	CONFLICT	UNP A0R1H7
E	1199	UNK	GLY	CONFLICT	UNP A0R1H7
E	1200	UNK	ALA	CONFLICT	UNP A0R1H7
E	1201	UNK	ALA	CONFLICT	UNP A0R1H7
E	1202	UNK	GLU	CONFLICT	UNP A0R1H7
E	1203	UNK	LEU	CONFLICT	UNP A0R1H7
E	1204	UNK	THR	CONFLICT	UNP A0R1H7
E	1205	UNK	ASP	CONFLICT	UNP A0R1H7
E	1206	UNK	PRO	CONFLICT	UNP A0R1H7
E	1207	UNK	VAL	CONFLICT	UNP A0R1H7
E	1208	UNK	ARG	CONFLICT	UNP A0R1H7
E	1209	UNK	ALA	CONFLICT	UNP A0R1H7
E	1210	UNK	GLY	CONFLICT	UNP A0R1H7
E	1211	UNK	GLY	CONFLICT	UNP A0R1H7
E	1212	UNK	ALA	CONFLICT	UNP A0R1H7
E	1213	UNK	ILE	CONFLICT	UNP A0R1H7
E	1214	UNK	SER	CONFLICT	UNP A0R1H7
E	1215	UNK	ASP	CONFLICT	UNP A0R1H7
E	1216	UNK	ASN	CONFLICT	UNP A0R1H7
E	1217	UNK	ALA	CONFLICT	UNP A0R1H7
E	1218	UNK	THR	CONFLICT	UNP A0R1H7
E	1219	UNK	ASP	CONFLICT	UNP A0R1H7
E	1220	UNK	THR	CONFLICT	UNP A0R1H7
E	1221	UNK	PRO	CONFLICT	UNP A0R1H7
E	1222	UNK	ARG	CONFLICT	UNP A0R1H7
E	1223	UNK	ARG	CONFLICT	UNP A0R1H7
E	1224	UNK	ARG	CONFLICT	UNP A0R1H7
E	1225	UNK	ARG	CONFLICT	UNP A0R1H7
E	1226	UNK	ARG	CONFLICT	UNP A0R1H7
E	1227	UNK	ASP	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
E	2076	UNK	GLY	CONFLICT	UNP A0R1H7
E	2077	UNK	ASP	CONFLICT	UNP A0R1H7
E	2078	UNK	ILE	CONFLICT	UNP A0R1H7
E	2079	UNK	ASP	CONFLICT	UNP A0R1H7
E	2080	UNK	ALA	CONFLICT	UNP A0R1H7
E	2081	UNK	GLN	CONFLICT	UNP A0R1H7
E	2082	UNK	TRP	CONFLICT	UNP A0R1H7
E	2083	UNK	GLU	CONFLICT	UNP A0R1H7
E	2084	UNK	GLN	CONFLICT	UNP A0R1H7
E	2085	UNK	LEU	CONFLICT	UNP A0R1H7
E	2086	UNK	SER	CONFLICT	UNP A0R1H7
E	2087	UNK	GLN	CONFLICT	UNP A0R1H7
E	2088	UNK	ARG	CONFLICT	UNP A0R1H7
E	2089	UNK	PHE	CONFLICT	UNP A0R1H7
E	2090	UNK	GLU	CONFLICT	UNP A0R1H7
E	2091	UNK	GLY	CONFLICT	UNP A0R1H7
E	2092	UNK	THR	CONFLICT	UNP A0R1H7
E	2093	UNK	GLY	CONFLICT	UNP A0R1H7
E	2094	UNK	HIS	CONFLICT	UNP A0R1H7
E	2095	UNK	VAL	CONFLICT	UNP A0R1H7
E	2096	UNK	VAL	CONFLICT	UNP A0R1H7
E	2097	UNK	ALA	CONFLICT	UNP A0R1H7
E	2098	UNK	THR	CONFLICT	UNP A0R1H7
E	2099	UNK	GLN	CONFLICT	UNP A0R1H7
E	2100	UNK	ALA	CONFLICT	UNP A0R1H7
E	2101	UNK	ASN	CONFLICT	UNP A0R1H7
E	2102	UNK	TRP	CONFLICT	UNP A0R1H7
E	2103	UNK	TRP	CONFLICT	UNP A0R1H7
E	2104	UNK	GLN	CONFLICT	UNP A0R1H7
E	2105	UNK	GLY	CONFLICT	UNP A0R1H7
E	2106	UNK	LYS	CONFLICT	UNP A0R1H7
E	2107	UNK	ALA	CONFLICT	UNP A0R1H7
E	2108	UNK	LEU	CONFLICT	UNP A0R1H7
E	2109	UNK	ALA	CONFLICT	UNP A0R1H7
E	2110	UNK	ALA	CONFLICT	UNP A0R1H7
E	2111	UNK	GLY	CONFLICT	UNP A0R1H7
E	2112	UNK	ARG	CONFLICT	UNP A0R1H7
E	2113	UNK	ASN	CONFLICT	UNP A0R1H7
E	2114	UNK	VAL	CONFLICT	UNP A0R1H7
E	2115	UNK	HIS	CONFLICT	UNP A0R1H7
E	2116	UNK	ALA	CONFLICT	UNP A0R1H7
E	2117	UNK	SER	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
E	2118	UNK	LEU	CONFLICT	UNP A0R1H7
E	2119	UNK	PHE	CONFLICT	UNP A0R1H7
E	2120	UNK	GLY	CONFLICT	UNP A0R1H7
E	2121	UNK	ARG	CONFLICT	UNP A0R1H7
E	2122	UNK	ILE	CONFLICT	UNP A0R1H7
E	2123	UNK	ALA	CONFLICT	UNP A0R1H7
E	2124	UNK	ALA	CONFLICT	UNP A0R1H7
E	2125	UNK	GLY	CONFLICT	UNP A0R1H7
E	2126	UNK	ALA	CONFLICT	UNP A0R1H7
E	2127	UNK	GLU	CONFLICT	UNP A0R1H7
E	2128	UNK	ASN	CONFLICT	UNP A0R1H7
E	2129	UNK	PRO	CONFLICT	UNP A0R1H7
E	2130	UNK	GLY	CONFLICT	UNP A0R1H7
E	2131	UNK	LYS	CONFLICT	UNP A0R1H7
E	2132	UNK	GLY	CONFLICT	UNP A0R1H7
E	2133	UNK	ARG	CONFLICT	UNP A0R1H7
E	2134	UNK	TYR	CONFLICT	UNP A0R1H7
E	2135	UNK	SER	CONFLICT	UNP A0R1H7
E	2422	UNK	GLU	CONFLICT	UNP A0R1H7
E	2423	UNK	SER	CONFLICT	UNP A0R1H7
E	2424	UNK	ASP	CONFLICT	UNP A0R1H7
E	2425	UNK	ASP	CONFLICT	UNP A0R1H7
E	2426	UNK	GLU	CONFLICT	UNP A0R1H7
E	2427	UNK	ALA	CONFLICT	UNP A0R1H7
E	2428	UNK	PRO	CONFLICT	UNP A0R1H7
E	2429	UNK	ALA	CONFLICT	UNP A0R1H7
E	2430	UNK	GLY	CONFLICT	UNP A0R1H7
E	2431	UNK	THR	CONFLICT	UNP A0R1H7
E	2432	UNK	ILE	CONFLICT	UNP A0R1H7
E	2433	UNK	ARG	CONFLICT	UNP A0R1H7
E	2434	UNK	ALA	CONFLICT	UNP A0R1H7
E	2435	UNK	LEU	CONFLICT	UNP A0R1H7
E	2436	UNK	PRO	CONFLICT	UNP A0R1H7
E	2437	UNK	SER	CONFLICT	UNP A0R1H7
E	2438	UNK	PRO	CONFLICT	UNP A0R1H7
E	2439	UNK	PRO	CONFLICT	UNP A0R1H7
E	2440	UNK	ARG	CONFLICT	UNP A0R1H7
E	2441	UNK	GLY	CONFLICT	UNP A0R1H7
E	2442	UNK	TYR	CONFLICT	UNP A0R1H7
E	2443	UNK	ASN	CONFLICT	UNP A0R1H7
E	2444	UNK	PRO	CONFLICT	UNP A0R1H7
E	2445	UNK	ALA	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
E	2446	UNK	PRO	CONFLICT	UNP A0R1H7
E	2447	UNK	ALA	CONFLICT	UNP A0R1H7
E	2448	UNK	PRO	CONFLICT	UNP A0R1H7
E	2449	UNK	GLU	CONFLICT	UNP A0R1H7
E	2450	UNK	TRP	CONFLICT	UNP A0R1H7
E	2451	UNK	ASP	CONFLICT	UNP A0R1H7
E	2452	UNK	ASP	CONFLICT	UNP A0R1H7
E	2453	UNK	LEU	CONFLICT	UNP A0R1H7
F	929	UNK	GLU	CONFLICT	UNP A0R1H7
F	930	UNK	PRO	CONFLICT	UNP A0R1H7
F	931	UNK	VAL	CONFLICT	UNP A0R1H7
F	932	UNK	GLU	CONFLICT	UNP A0R1H7
F	933	UNK	VAL	CONFLICT	UNP A0R1H7
F	934	UNK	LEU	CONFLICT	UNP A0R1H7
F	935	UNK	SER	CONFLICT	UNP A0R1H7
F	936	UNK	ARG	CONFLICT	UNP A0R1H7
F	937	UNK	ARG	CONFLICT	UNP A0R1H7
F	938	UNK	GLN	CONFLICT	UNP A0R1H7
F	939	UNK	ALA	CONFLICT	UNP A0R1H7
F	940	UNK	ARG	CONFLICT	UNP A0R1H7
F	941	UNK	ARG	CONFLICT	UNP A0R1H7
F	942	UNK	ASP	CONFLICT	UNP A0R1H7
F	943	UNK	ALA	CONFLICT	UNP A0R1H7
F	944	UNK	SER	CONFLICT	UNP A0R1H7
F	974	UNK	THR	CONFLICT	UNP A0R1H7
F	975	UNK	GLU	CONFLICT	UNP A0R1H7
F	976	UNK	TRP	CONFLICT	UNP A0R1H7
F	977	UNK	GLN	CONFLICT	UNP A0R1H7
F	978	UNK	VAL	CONFLICT	UNP A0R1H7
F	979	UNK	ARG	CONFLICT	UNP A0R1H7
F	980	UNK	GLU	CONFLICT	UNP A0R1H7
F	981	UNK	GLY	CONFLICT	UNP A0R1H7
F	982	UNK	SER	CONFLICT	UNP A0R1H7
F	983	UNK	ASP	CONFLICT	UNP A0R1H7
F	984	UNK	ASN	CONFLICT	UNP A0R1H7
F	985	UNK	ARG	CONFLICT	UNP A0R1H7
F	986	UNK	SER	CONFLICT	UNP A0R1H7
F	987	UNK	ALA	CONFLICT	UNP A0R1H7
F	988	UNK	SER	CONFLICT	UNP A0R1H7
F	989	UNK	HIS	CONFLICT	UNP A0R1H7
F	990	UNK	PRO	CONFLICT	UNP A0R1H7
F	991	UNK	SER	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
F	992	UNK	THR	CONFLICT	UNP A0R1H7
F	993	UNK	GLY	CONFLICT	UNP A0R1H7
F	994	UNK	ALA	CONFLICT	UNP A0R1H7
F	995	UNK	ARG	CONFLICT	UNP A0R1H7
F	996	UNK	LEU	CONFLICT	UNP A0R1H7
F	997	UNK	GLU	CONFLICT	UNP A0R1H7
F	998	UNK	VAL	CONFLICT	UNP A0R1H7
F	999	UNK	ALA	CONFLICT	UNP A0R1H7
F	1000	UNK	ASP	CONFLICT	UNP A0R1H7
F	1001	UNK	ASP	CONFLICT	UNP A0R1H7
F	1002	UNK	GLN	CONFLICT	UNP A0R1H7
F	1003	UNK	HIS	CONFLICT	UNP A0R1H7
F	1004	UNK	VAL	CONFLICT	UNP A0R1H7
F	1005	UNK	VAL	CONFLICT	UNP A0R1H7
F	1006	UNK	LEU	CONFLICT	UNP A0R1H7
F	1007	UNK	SER	CONFLICT	UNP A0R1H7
F	1008	UNK	VAL	CONFLICT	UNP A0R1H7
F	1009	UNK	PRO	CONFLICT	UNP A0R1H7
F	1010	UNK	LEU	CONFLICT	UNP A0R1H7
F	1011	UNK	SER	CONFLICT	UNP A0R1H7
F	1012	UNK	GLY	CONFLICT	UNP A0R1H7
F	1013	UNK	THR	CONFLICT	UNP A0R1H7
F	1014	UNK	TRP	CONFLICT	UNP A0R1H7
F	1196	UNK	GLY	CONFLICT	UNP A0R1H7
F	1197	UNK	ARG	CONFLICT	UNP A0R1H7
F	1198	UNK	THR	CONFLICT	UNP A0R1H7
F	1199	UNK	GLY	CONFLICT	UNP A0R1H7
F	1200	UNK	ALA	CONFLICT	UNP A0R1H7
F	1201	UNK	ALA	CONFLICT	UNP A0R1H7
F	1202	UNK	GLU	CONFLICT	UNP A0R1H7
F	1203	UNK	LEU	CONFLICT	UNP A0R1H7
F	1204	UNK	THR	CONFLICT	UNP A0R1H7
F	1205	UNK	ASP	CONFLICT	UNP A0R1H7
F	1206	UNK	PRO	CONFLICT	UNP A0R1H7
F	1207	UNK	VAL	CONFLICT	UNP A0R1H7
F	1208	UNK	ARG	CONFLICT	UNP A0R1H7
F	1209	UNK	ALA	CONFLICT	UNP A0R1H7
F	1210	UNK	GLY	CONFLICT	UNP A0R1H7
F	1211	UNK	GLY	CONFLICT	UNP A0R1H7
F	1212	UNK	ALA	CONFLICT	UNP A0R1H7
F	1213	UNK	ILE	CONFLICT	UNP A0R1H7
F	1214	UNK	SER	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
F	1215	UNK	ASP	CONFLICT	UNP A0R1H7
F	1216	UNK	ASN	CONFLICT	UNP A0R1H7
F	1217	UNK	ALA	CONFLICT	UNP A0R1H7
F	1218	UNK	THR	CONFLICT	UNP A0R1H7
F	1219	UNK	ASP	CONFLICT	UNP A0R1H7
F	1220	UNK	THR	CONFLICT	UNP A0R1H7
F	1221	UNK	PRO	CONFLICT	UNP A0R1H7
F	1222	UNK	ARG	CONFLICT	UNP A0R1H7
F	1223	UNK	ARG	CONFLICT	UNP A0R1H7
F	1224	UNK	ARG	CONFLICT	UNP A0R1H7
F	1225	UNK	ARG	CONFLICT	UNP A0R1H7
F	1226	UNK	ARG	CONFLICT	UNP A0R1H7
F	1227	UNK	ASP	CONFLICT	UNP A0R1H7
F	2076	UNK	GLY	CONFLICT	UNP A0R1H7
F	2077	UNK	ASP	CONFLICT	UNP A0R1H7
F	2078	UNK	ILE	CONFLICT	UNP A0R1H7
F	2079	UNK	ASP	CONFLICT	UNP A0R1H7
F	2080	UNK	ALA	CONFLICT	UNP A0R1H7
F	2081	UNK	GLN	CONFLICT	UNP A0R1H7
F	2082	UNK	TRP	CONFLICT	UNP A0R1H7
F	2083	UNK	GLU	CONFLICT	UNP A0R1H7
F	2084	UNK	GLN	CONFLICT	UNP A0R1H7
F	2085	UNK	LEU	CONFLICT	UNP A0R1H7
F	2086	UNK	SER	CONFLICT	UNP A0R1H7
F	2087	UNK	GLN	CONFLICT	UNP A0R1H7
F	2088	UNK	ARG	CONFLICT	UNP A0R1H7
F	2089	UNK	PHE	CONFLICT	UNP A0R1H7
F	2090	UNK	GLU	CONFLICT	UNP A0R1H7
F	2091	UNK	GLY	CONFLICT	UNP A0R1H7
F	2092	UNK	THR	CONFLICT	UNP A0R1H7
F	2093	UNK	GLY	CONFLICT	UNP A0R1H7
F	2094	UNK	HIS	CONFLICT	UNP A0R1H7
F	2095	UNK	VAL	CONFLICT	UNP A0R1H7
F	2096	UNK	VAL	CONFLICT	UNP A0R1H7
F	2097	UNK	ALA	CONFLICT	UNP A0R1H7
F	2098	UNK	THR	CONFLICT	UNP A0R1H7
F	2099	UNK	GLN	CONFLICT	UNP A0R1H7
F	2100	UNK	ALA	CONFLICT	UNP A0R1H7
F	2101	UNK	ASN	CONFLICT	UNP A0R1H7
F	2102	UNK	TRP	CONFLICT	UNP A0R1H7
F	2103	UNK	TRP	CONFLICT	UNP A0R1H7
F	2104	UNK	GLN	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
F	2105	UNK	GLY	CONFLICT	UNP A0R1H7
F	2106	UNK	LYS	CONFLICT	UNP A0R1H7
F	2107	UNK	ALA	CONFLICT	UNP A0R1H7
F	2108	UNK	LEU	CONFLICT	UNP A0R1H7
F	2109	UNK	ALA	CONFLICT	UNP A0R1H7
F	2110	UNK	ALA	CONFLICT	UNP A0R1H7
F	2111	UNK	GLY	CONFLICT	UNP A0R1H7
F	2112	UNK	ARG	CONFLICT	UNP A0R1H7
F	2113	UNK	ASN	CONFLICT	UNP A0R1H7
F	2114	UNK	VAL	CONFLICT	UNP A0R1H7
F	2115	UNK	HIS	CONFLICT	UNP A0R1H7
F	2116	UNK	ALA	CONFLICT	UNP A0R1H7
F	2117	UNK	SER	CONFLICT	UNP A0R1H7
F	2118	UNK	LEU	CONFLICT	UNP A0R1H7
F	2119	UNK	PHE	CONFLICT	UNP A0R1H7
F	2120	UNK	GLY	CONFLICT	UNP A0R1H7
F	2121	UNK	ARG	CONFLICT	UNP A0R1H7
F	2122	UNK	ILE	CONFLICT	UNP A0R1H7
F	2123	UNK	ALA	CONFLICT	UNP A0R1H7
F	2124	UNK	ALA	CONFLICT	UNP A0R1H7
F	2125	UNK	GLY	CONFLICT	UNP A0R1H7
F	2126	UNK	ALA	CONFLICT	UNP A0R1H7
F	2127	UNK	GLU	CONFLICT	UNP A0R1H7
F	2128	UNK	ASN	CONFLICT	UNP A0R1H7
F	2129	UNK	PRO	CONFLICT	UNP A0R1H7
F	2130	UNK	GLY	CONFLICT	UNP A0R1H7
F	2131	UNK	LYS	CONFLICT	UNP A0R1H7
F	2132	UNK	GLY	CONFLICT	UNP A0R1H7
F	2133	UNK	ARG	CONFLICT	UNP A0R1H7
F	2134	UNK	TYR	CONFLICT	UNP A0R1H7
F	2135	UNK	SER	CONFLICT	UNP A0R1H7
F	2422	UNK	GLU	CONFLICT	UNP A0R1H7
F	2423	UNK	SER	CONFLICT	UNP A0R1H7
F	2424	UNK	ASP	CONFLICT	UNP A0R1H7
F	2425	UNK	ASP	CONFLICT	UNP A0R1H7
F	2426	UNK	GLU	CONFLICT	UNP A0R1H7
F	2427	UNK	ALA	CONFLICT	UNP A0R1H7
F	2428	UNK	PRO	CONFLICT	UNP A0R1H7
F	2429	UNK	ALA	CONFLICT	UNP A0R1H7
F	2430	UNK	GLY	CONFLICT	UNP A0R1H7
F	2431	UNK	THR	CONFLICT	UNP A0R1H7
F	2432	UNK	ILE	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
F	2433	UNK	ARG	CONFLICT	UNP A0R1H7
F	2434	UNK	ALA	CONFLICT	UNP A0R1H7
F	2435	UNK	LEU	CONFLICT	UNP A0R1H7
F	2436	UNK	PRO	CONFLICT	UNP A0R1H7
F	2437	UNK	SER	CONFLICT	UNP A0R1H7
F	2438	UNK	PRO	CONFLICT	UNP A0R1H7
F	2439	UNK	PRO	CONFLICT	UNP A0R1H7
F	2440	UNK	ARG	CONFLICT	UNP A0R1H7
F	2441	UNK	GLY	CONFLICT	UNP A0R1H7
F	2442	UNK	TYR	CONFLICT	UNP A0R1H7
F	2443	UNK	ASN	CONFLICT	UNP A0R1H7
F	2444	UNK	PRO	CONFLICT	UNP A0R1H7
F	2445	UNK	ALA	CONFLICT	UNP A0R1H7
F	2446	UNK	PRO	CONFLICT	UNP A0R1H7
F	2447	UNK	ALA	CONFLICT	UNP A0R1H7
F	2448	UNK	PRO	CONFLICT	UNP A0R1H7
F	2449	UNK	GLU	CONFLICT	UNP A0R1H7
F	2450	UNK	TRP	CONFLICT	UNP A0R1H7
F	2451	UNK	ASP	CONFLICT	UNP A0R1H7
F	2452	UNK	ASP	CONFLICT	UNP A0R1H7
F	2453	UNK	LEU	CONFLICT	UNP A0R1H7
A	929	UNK	GLU	CONFLICT	UNP A0R1H7
A	930	UNK	PRO	CONFLICT	UNP A0R1H7
A	931	UNK	VAL	CONFLICT	UNP A0R1H7
A	932	UNK	GLU	CONFLICT	UNP A0R1H7
A	933	UNK	VAL	CONFLICT	UNP A0R1H7
A	934	UNK	LEU	CONFLICT	UNP A0R1H7
A	935	UNK	SER	CONFLICT	UNP A0R1H7
A	936	UNK	ARG	CONFLICT	UNP A0R1H7
A	937	UNK	ARG	CONFLICT	UNP A0R1H7
A	938	UNK	GLN	CONFLICT	UNP A0R1H7
A	939	UNK	ALA	CONFLICT	UNP A0R1H7
A	940	UNK	ARG	CONFLICT	UNP A0R1H7
A	941	UNK	ARG	CONFLICT	UNP A0R1H7
A	942	UNK	ASP	CONFLICT	UNP A0R1H7
A	943	UNK	ALA	CONFLICT	UNP A0R1H7
A	944	UNK	SER	CONFLICT	UNP A0R1H7
A	974	UNK	THR	CONFLICT	UNP A0R1H7
A	975	UNK	GLU	CONFLICT	UNP A0R1H7
A	976	UNK	TRP	CONFLICT	UNP A0R1H7
A	977	UNK	GLN	CONFLICT	UNP A0R1H7
A	978	UNK	VAL	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
A	979	UNK	ARG	CONFLICT	UNP A0R1H7
A	980	UNK	GLU	CONFLICT	UNP A0R1H7
A	981	UNK	GLY	CONFLICT	UNP A0R1H7
A	982	UNK	SER	CONFLICT	UNP A0R1H7
A	983	UNK	ASP	CONFLICT	UNP A0R1H7
A	984	UNK	ASN	CONFLICT	UNP A0R1H7
A	985	UNK	ARG	CONFLICT	UNP A0R1H7
A	986	UNK	SER	CONFLICT	UNP A0R1H7
A	987	UNK	ALA	CONFLICT	UNP A0R1H7
A	988	UNK	SER	CONFLICT	UNP A0R1H7
A	989	UNK	HIS	CONFLICT	UNP A0R1H7
A	990	UNK	PRO	CONFLICT	UNP A0R1H7
A	991	UNK	SER	CONFLICT	UNP A0R1H7
A	992	UNK	THR	CONFLICT	UNP A0R1H7
A	993	UNK	GLY	CONFLICT	UNP A0R1H7
A	994	UNK	ALA	CONFLICT	UNP A0R1H7
A	995	UNK	ARG	CONFLICT	UNP A0R1H7
A	996	UNK	LEU	CONFLICT	UNP A0R1H7
A	997	UNK	GLU	CONFLICT	UNP A0R1H7
A	998	UNK	VAL	CONFLICT	UNP A0R1H7
A	999	UNK	ALA	CONFLICT	UNP A0R1H7
A	1000	UNK	ASP	CONFLICT	UNP A0R1H7
A	1001	UNK	ASP	CONFLICT	UNP A0R1H7
A	1002	UNK	GLN	CONFLICT	UNP A0R1H7
A	1003	UNK	HIS	CONFLICT	UNP A0R1H7
A	1004	UNK	VAL	CONFLICT	UNP A0R1H7
A	1005	UNK	VAL	CONFLICT	UNP A0R1H7
A	1006	UNK	LEU	CONFLICT	UNP A0R1H7
A	1007	UNK	SER	CONFLICT	UNP A0R1H7
A	1008	UNK	VAL	CONFLICT	UNP A0R1H7
A	1009	UNK	PRO	CONFLICT	UNP A0R1H7
A	1010	UNK	LEU	CONFLICT	UNP A0R1H7
A	1011	UNK	SER	CONFLICT	UNP A0R1H7
A	1012	UNK	GLY	CONFLICT	UNP A0R1H7
A	1013	UNK	THR	CONFLICT	UNP A0R1H7
A	1014	UNK	TRP	CONFLICT	UNP A0R1H7
A	1196	UNK	GLY	CONFLICT	UNP A0R1H7
A	1197	UNK	ARG	CONFLICT	UNP A0R1H7
A	1198	UNK	THR	CONFLICT	UNP A0R1H7
A	1199	UNK	GLY	CONFLICT	UNP A0R1H7
A	1200	UNK	ALA	CONFLICT	UNP A0R1H7
A	1201	UNK	ALA	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
A	1202	UNK	GLU	CONFLICT	UNP A0R1H7
A	1203	UNK	LEU	CONFLICT	UNP A0R1H7
A	1204	UNK	THR	CONFLICT	UNP A0R1H7
A	1205	UNK	ASP	CONFLICT	UNP A0R1H7
A	1206	UNK	PRO	CONFLICT	UNP A0R1H7
A	1207	UNK	VAL	CONFLICT	UNP A0R1H7
A	1208	UNK	ARG	CONFLICT	UNP A0R1H7
A	1209	UNK	ALA	CONFLICT	UNP A0R1H7
A	1210	UNK	GLY	CONFLICT	UNP A0R1H7
A	1211	UNK	GLY	CONFLICT	UNP A0R1H7
A	1212	UNK	ALA	CONFLICT	UNP A0R1H7
A	1213	UNK	ILE	CONFLICT	UNP A0R1H7
A	1214	UNK	SER	CONFLICT	UNP A0R1H7
A	1215	UNK	ASP	CONFLICT	UNP A0R1H7
A	1216	UNK	ASN	CONFLICT	UNP A0R1H7
A	1217	UNK	ALA	CONFLICT	UNP A0R1H7
A	1218	UNK	THR	CONFLICT	UNP A0R1H7
A	1219	UNK	ASP	CONFLICT	UNP A0R1H7
A	1220	UNK	THR	CONFLICT	UNP A0R1H7
A	1221	UNK	PRO	CONFLICT	UNP A0R1H7
A	1222	UNK	ARG	CONFLICT	UNP A0R1H7
A	1223	UNK	ARG	CONFLICT	UNP A0R1H7
A	1224	UNK	ARG	CONFLICT	UNP A0R1H7
A	1225	UNK	ARG	CONFLICT	UNP A0R1H7
A	1226	UNK	ARG	CONFLICT	UNP A0R1H7
A	1227	UNK	ASP	CONFLICT	UNP A0R1H7
A	2076	UNK	GLY	CONFLICT	UNP A0R1H7
A	2077	UNK	ASP	CONFLICT	UNP A0R1H7
A	2078	UNK	ILE	CONFLICT	UNP A0R1H7
A	2079	UNK	ASP	CONFLICT	UNP A0R1H7
A	2080	UNK	ALA	CONFLICT	UNP A0R1H7
A	2081	UNK	GLN	CONFLICT	UNP A0R1H7
A	2082	UNK	TRP	CONFLICT	UNP A0R1H7
A	2083	UNK	GLU	CONFLICT	UNP A0R1H7
A	2084	UNK	GLN	CONFLICT	UNP A0R1H7
A	2085	UNK	LEU	CONFLICT	UNP A0R1H7
A	2086	UNK	SER	CONFLICT	UNP A0R1H7
A	2087	UNK	GLN	CONFLICT	UNP A0R1H7
A	2088	UNK	ARG	CONFLICT	UNP A0R1H7
A	2089	UNK	PHE	CONFLICT	UNP A0R1H7
A	2090	UNK	GLU	CONFLICT	UNP A0R1H7
A	2091	UNK	GLY	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
A	2092	UNK	THR	CONFLICT	UNP A0R1H7
A	2093	UNK	GLY	CONFLICT	UNP A0R1H7
A	2094	UNK	HIS	CONFLICT	UNP A0R1H7
A	2095	UNK	VAL	CONFLICT	UNP A0R1H7
A	2096	UNK	VAL	CONFLICT	UNP A0R1H7
A	2097	UNK	ALA	CONFLICT	UNP A0R1H7
A	2098	UNK	THR	CONFLICT	UNP A0R1H7
A	2099	UNK	GLN	CONFLICT	UNP A0R1H7
A	2100	UNK	ALA	CONFLICT	UNP A0R1H7
A	2101	UNK	ASN	CONFLICT	UNP A0R1H7
A	2102	UNK	TRP	CONFLICT	UNP A0R1H7
A	2103	UNK	TRP	CONFLICT	UNP A0R1H7
A	2104	UNK	GLN	CONFLICT	UNP A0R1H7
A	2105	UNK	GLY	CONFLICT	UNP A0R1H7
A	2106	UNK	LYS	CONFLICT	UNP A0R1H7
A	2107	UNK	ALA	CONFLICT	UNP A0R1H7
A	2108	UNK	LEU	CONFLICT	UNP A0R1H7
A	2109	UNK	ALA	CONFLICT	UNP A0R1H7
A	2110	UNK	ALA	CONFLICT	UNP A0R1H7
A	2111	UNK	GLY	CONFLICT	UNP A0R1H7
A	2112	UNK	ARG	CONFLICT	UNP A0R1H7
A	2113	UNK	ASN	CONFLICT	UNP A0R1H7
A	2114	UNK	VAL	CONFLICT	UNP A0R1H7
A	2115	UNK	HIS	CONFLICT	UNP A0R1H7
A	2116	UNK	ALA	CONFLICT	UNP A0R1H7
A	2117	UNK	SER	CONFLICT	UNP A0R1H7
A	2118	UNK	LEU	CONFLICT	UNP A0R1H7
A	2119	UNK	PHE	CONFLICT	UNP A0R1H7
A	2120	UNK	GLY	CONFLICT	UNP A0R1H7
A	2121	UNK	ARG	CONFLICT	UNP A0R1H7
A	2122	UNK	ILE	CONFLICT	UNP A0R1H7
A	2123	UNK	ALA	CONFLICT	UNP A0R1H7
A	2124	UNK	ALA	CONFLICT	UNP A0R1H7
A	2125	UNK	GLY	CONFLICT	UNP A0R1H7
A	2126	UNK	ALA	CONFLICT	UNP A0R1H7
A	2127	UNK	GLU	CONFLICT	UNP A0R1H7
A	2128	UNK	ASN	CONFLICT	UNP A0R1H7
A	2129	UNK	PRO	CONFLICT	UNP A0R1H7
A	2130	UNK	GLY	CONFLICT	UNP A0R1H7
A	2131	UNK	LYS	CONFLICT	UNP A0R1H7
A	2132	UNK	GLY	CONFLICT	UNP A0R1H7
A	2133	UNK	ARG	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
A	2134	UNK	TYR	CONFLICT	UNP A0R1H7
A	2135	UNK	SER	CONFLICT	UNP A0R1H7
A	2422	UNK	GLU	CONFLICT	UNP A0R1H7
A	2423	UNK	SER	CONFLICT	UNP A0R1H7
A	2424	UNK	ASP	CONFLICT	UNP A0R1H7
A	2425	UNK	ASP	CONFLICT	UNP A0R1H7
A	2426	UNK	GLU	CONFLICT	UNP A0R1H7
A	2427	UNK	ALA	CONFLICT	UNP A0R1H7
A	2428	UNK	PRO	CONFLICT	UNP A0R1H7
A	2429	UNK	ALA	CONFLICT	UNP A0R1H7
A	2430	UNK	GLY	CONFLICT	UNP A0R1H7
A	2431	UNK	THR	CONFLICT	UNP A0R1H7
A	2432	UNK	ILE	CONFLICT	UNP A0R1H7
A	2433	UNK	ARG	CONFLICT	UNP A0R1H7
A	2434	UNK	ALA	CONFLICT	UNP A0R1H7
A	2435	UNK	LEU	CONFLICT	UNP A0R1H7
A	2436	UNK	PRO	CONFLICT	UNP A0R1H7
A	2437	UNK	SER	CONFLICT	UNP A0R1H7
A	2438	UNK	PRO	CONFLICT	UNP A0R1H7
A	2439	UNK	PRO	CONFLICT	UNP A0R1H7
A	2440	UNK	ARG	CONFLICT	UNP A0R1H7
A	2441	UNK	GLY	CONFLICT	UNP A0R1H7
A	2442	UNK	TYR	CONFLICT	UNP A0R1H7
A	2443	UNK	ASN	CONFLICT	UNP A0R1H7
A	2444	UNK	PRO	CONFLICT	UNP A0R1H7
A	2445	UNK	ALA	CONFLICT	UNP A0R1H7
A	2446	UNK	PRO	CONFLICT	UNP A0R1H7
A	2447	UNK	ALA	CONFLICT	UNP A0R1H7
A	2448	UNK	PRO	CONFLICT	UNP A0R1H7
A	2449	UNK	GLU	CONFLICT	UNP A0R1H7
A	2450	UNK	TRP	CONFLICT	UNP A0R1H7
A	2451	UNK	ASP	CONFLICT	UNP A0R1H7
A	2452	UNK	ASP	CONFLICT	UNP A0R1H7
A	2453	UNK	LEU	CONFLICT	UNP A0R1H7
B	929	UNK	GLU	CONFLICT	UNP A0R1H7
B	930	UNK	PRO	CONFLICT	UNP A0R1H7
B	931	UNK	VAL	CONFLICT	UNP A0R1H7
B	932	UNK	GLU	CONFLICT	UNP A0R1H7
B	933	UNK	VAL	CONFLICT	UNP A0R1H7
B	934	UNK	LEU	CONFLICT	UNP A0R1H7
B	935	UNK	SER	CONFLICT	UNP A0R1H7
B	936	UNK	ARG	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
B	937	UNK	ARG	CONFLICT	UNP A0R1H7
B	938	UNK	GLN	CONFLICT	UNP A0R1H7
B	939	UNK	ALA	CONFLICT	UNP A0R1H7
B	940	UNK	ARG	CONFLICT	UNP A0R1H7
B	941	UNK	ARG	CONFLICT	UNP A0R1H7
B	942	UNK	ASP	CONFLICT	UNP A0R1H7
B	943	UNK	ALA	CONFLICT	UNP A0R1H7
B	944	UNK	SER	CONFLICT	UNP A0R1H7
B	974	UNK	THR	CONFLICT	UNP A0R1H7
B	975	UNK	GLU	CONFLICT	UNP A0R1H7
B	976	UNK	TRP	CONFLICT	UNP A0R1H7
B	977	UNK	GLN	CONFLICT	UNP A0R1H7
B	978	UNK	VAL	CONFLICT	UNP A0R1H7
B	979	UNK	ARG	CONFLICT	UNP A0R1H7
B	980	UNK	GLU	CONFLICT	UNP A0R1H7
B	981	UNK	GLY	CONFLICT	UNP A0R1H7
B	982	UNK	SER	CONFLICT	UNP A0R1H7
B	983	UNK	ASP	CONFLICT	UNP A0R1H7
B	984	UNK	ASN	CONFLICT	UNP A0R1H7
B	985	UNK	ARG	CONFLICT	UNP A0R1H7
B	986	UNK	SER	CONFLICT	UNP A0R1H7
B	987	UNK	ALA	CONFLICT	UNP A0R1H7
B	988	UNK	SER	CONFLICT	UNP A0R1H7
B	989	UNK	HIS	CONFLICT	UNP A0R1H7
B	990	UNK	PRO	CONFLICT	UNP A0R1H7
B	991	UNK	SER	CONFLICT	UNP A0R1H7
B	992	UNK	THR	CONFLICT	UNP A0R1H7
B	993	UNK	GLY	CONFLICT	UNP A0R1H7
B	994	UNK	ALA	CONFLICT	UNP A0R1H7
B	995	UNK	ARG	CONFLICT	UNP A0R1H7
B	996	UNK	LEU	CONFLICT	UNP A0R1H7
B	997	UNK	GLU	CONFLICT	UNP A0R1H7
B	998	UNK	VAL	CONFLICT	UNP A0R1H7
B	999	UNK	ALA	CONFLICT	UNP A0R1H7
B	1000	UNK	ASP	CONFLICT	UNP A0R1H7
B	1001	UNK	ASP	CONFLICT	UNP A0R1H7
B	1002	UNK	GLN	CONFLICT	UNP A0R1H7
B	1003	UNK	HIS	CONFLICT	UNP A0R1H7
B	1004	UNK	VAL	CONFLICT	UNP A0R1H7
B	1005	UNK	VAL	CONFLICT	UNP A0R1H7
B	1006	UNK	LEU	CONFLICT	UNP A0R1H7
B	1007	UNK	SER	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
B	1008	UNK	VAL	CONFLICT	UNP A0R1H7
B	1009	UNK	PRO	CONFLICT	UNP A0R1H7
B	1010	UNK	LEU	CONFLICT	UNP A0R1H7
B	1011	UNK	SER	CONFLICT	UNP A0R1H7
B	1012	UNK	GLY	CONFLICT	UNP A0R1H7
B	1013	UNK	THR	CONFLICT	UNP A0R1H7
B	1014	UNK	TRP	CONFLICT	UNP A0R1H7
B	1196	UNK	GLY	CONFLICT	UNP A0R1H7
B	1197	UNK	ARG	CONFLICT	UNP A0R1H7
B	1198	UNK	THR	CONFLICT	UNP A0R1H7
B	1199	UNK	GLY	CONFLICT	UNP A0R1H7
B	1200	UNK	ALA	CONFLICT	UNP A0R1H7
B	1201	UNK	ALA	CONFLICT	UNP A0R1H7
B	1202	UNK	GLU	CONFLICT	UNP A0R1H7
B	1203	UNK	LEU	CONFLICT	UNP A0R1H7
B	1204	UNK	THR	CONFLICT	UNP A0R1H7
B	1205	UNK	ASP	CONFLICT	UNP A0R1H7
B	1206	UNK	PRO	CONFLICT	UNP A0R1H7
B	1207	UNK	VAL	CONFLICT	UNP A0R1H7
B	1208	UNK	ARG	CONFLICT	UNP A0R1H7
B	1209	UNK	ALA	CONFLICT	UNP A0R1H7
B	1210	UNK	GLY	CONFLICT	UNP A0R1H7
B	1211	UNK	GLY	CONFLICT	UNP A0R1H7
B	1212	UNK	ALA	CONFLICT	UNP A0R1H7
B	1213	UNK	ILE	CONFLICT	UNP A0R1H7
B	1214	UNK	SER	CONFLICT	UNP A0R1H7
B	1215	UNK	ASP	CONFLICT	UNP A0R1H7
B	1216	UNK	ASN	CONFLICT	UNP A0R1H7
B	1217	UNK	ALA	CONFLICT	UNP A0R1H7
B	1218	UNK	THR	CONFLICT	UNP A0R1H7
B	1219	UNK	ASP	CONFLICT	UNP A0R1H7
B	1220	UNK	THR	CONFLICT	UNP A0R1H7
B	1221	UNK	PRO	CONFLICT	UNP A0R1H7
B	1222	UNK	ARG	CONFLICT	UNP A0R1H7
B	1223	UNK	ARG	CONFLICT	UNP A0R1H7
B	1224	UNK	ARG	CONFLICT	UNP A0R1H7
B	1225	UNK	ARG	CONFLICT	UNP A0R1H7
B	1226	UNK	ARG	CONFLICT	UNP A0R1H7
B	1227	UNK	ASP	CONFLICT	UNP A0R1H7
B	2076	UNK	GLY	CONFLICT	UNP A0R1H7
B	2077	UNK	ASP	CONFLICT	UNP A0R1H7
B	2078	UNK	ILE	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
B	2079	UNK	ASP	CONFLICT	UNP A0R1H7
B	2080	UNK	ALA	CONFLICT	UNP A0R1H7
B	2081	UNK	GLN	CONFLICT	UNP A0R1H7
B	2082	UNK	TRP	CONFLICT	UNP A0R1H7
B	2083	UNK	GLU	CONFLICT	UNP A0R1H7
B	2084	UNK	GLN	CONFLICT	UNP A0R1H7
B	2085	UNK	LEU	CONFLICT	UNP A0R1H7
B	2086	UNK	SER	CONFLICT	UNP A0R1H7
B	2087	UNK	GLN	CONFLICT	UNP A0R1H7
B	2088	UNK	ARG	CONFLICT	UNP A0R1H7
B	2089	UNK	PHE	CONFLICT	UNP A0R1H7
B	2090	UNK	GLU	CONFLICT	UNP A0R1H7
B	2091	UNK	GLY	CONFLICT	UNP A0R1H7
B	2092	UNK	THR	CONFLICT	UNP A0R1H7
B	2093	UNK	GLY	CONFLICT	UNP A0R1H7
B	2094	UNK	HIS	CONFLICT	UNP A0R1H7
B	2095	UNK	VAL	CONFLICT	UNP A0R1H7
B	2096	UNK	VAL	CONFLICT	UNP A0R1H7
B	2097	UNK	ALA	CONFLICT	UNP A0R1H7
B	2098	UNK	THR	CONFLICT	UNP A0R1H7
B	2099	UNK	GLN	CONFLICT	UNP A0R1H7
B	2100	UNK	ALA	CONFLICT	UNP A0R1H7
B	2101	UNK	ASN	CONFLICT	UNP A0R1H7
B	2102	UNK	TRP	CONFLICT	UNP A0R1H7
B	2103	UNK	TRP	CONFLICT	UNP A0R1H7
B	2104	UNK	GLN	CONFLICT	UNP A0R1H7
B	2105	UNK	GLY	CONFLICT	UNP A0R1H7
B	2106	UNK	LYS	CONFLICT	UNP A0R1H7
B	2107	UNK	ALA	CONFLICT	UNP A0R1H7
B	2108	UNK	LEU	CONFLICT	UNP A0R1H7
B	2109	UNK	ALA	CONFLICT	UNP A0R1H7
B	2110	UNK	ALA	CONFLICT	UNP A0R1H7
B	2111	UNK	GLY	CONFLICT	UNP A0R1H7
B	2112	UNK	ARG	CONFLICT	UNP A0R1H7
B	2113	UNK	ASN	CONFLICT	UNP A0R1H7
B	2114	UNK	VAL	CONFLICT	UNP A0R1H7
B	2115	UNK	HIS	CONFLICT	UNP A0R1H7
B	2116	UNK	ALA	CONFLICT	UNP A0R1H7
B	2117	UNK	SER	CONFLICT	UNP A0R1H7
B	2118	UNK	LEU	CONFLICT	UNP A0R1H7
B	2119	UNK	PHE	CONFLICT	UNP A0R1H7
B	2120	UNK	GLY	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
B	2121	UNK	ARG	CONFLICT	UNP A0R1H7
B	2122	UNK	ILE	CONFLICT	UNP A0R1H7
B	2123	UNK	ALA	CONFLICT	UNP A0R1H7
B	2124	UNK	ALA	CONFLICT	UNP A0R1H7
B	2125	UNK	GLY	CONFLICT	UNP A0R1H7
B	2126	UNK	ALA	CONFLICT	UNP A0R1H7
B	2127	UNK	GLU	CONFLICT	UNP A0R1H7
B	2128	UNK	ASN	CONFLICT	UNP A0R1H7
B	2129	UNK	PRO	CONFLICT	UNP A0R1H7
B	2130	UNK	GLY	CONFLICT	UNP A0R1H7
B	2131	UNK	LYS	CONFLICT	UNP A0R1H7
B	2132	UNK	GLY	CONFLICT	UNP A0R1H7
B	2133	UNK	ARG	CONFLICT	UNP A0R1H7
B	2134	UNK	TYR	CONFLICT	UNP A0R1H7
B	2135	UNK	SER	CONFLICT	UNP A0R1H7
B	2422	UNK	GLU	CONFLICT	UNP A0R1H7
B	2423	UNK	SER	CONFLICT	UNP A0R1H7
B	2424	UNK	ASP	CONFLICT	UNP A0R1H7
B	2425	UNK	ASP	CONFLICT	UNP A0R1H7
B	2426	UNK	GLU	CONFLICT	UNP A0R1H7
B	2427	UNK	ALA	CONFLICT	UNP A0R1H7
B	2428	UNK	PRO	CONFLICT	UNP A0R1H7
B	2429	UNK	ALA	CONFLICT	UNP A0R1H7
B	2430	UNK	GLY	CONFLICT	UNP A0R1H7
B	2431	UNK	THR	CONFLICT	UNP A0R1H7
B	2432	UNK	ILE	CONFLICT	UNP A0R1H7
B	2433	UNK	ARG	CONFLICT	UNP A0R1H7
B	2434	UNK	ALA	CONFLICT	UNP A0R1H7
B	2435	UNK	LEU	CONFLICT	UNP A0R1H7
B	2436	UNK	PRO	CONFLICT	UNP A0R1H7
B	2437	UNK	SER	CONFLICT	UNP A0R1H7
B	2438	UNK	PRO	CONFLICT	UNP A0R1H7
B	2439	UNK	PRO	CONFLICT	UNP A0R1H7
B	2440	UNK	ARG	CONFLICT	UNP A0R1H7
B	2441	UNK	GLY	CONFLICT	UNP A0R1H7
B	2442	UNK	TYR	CONFLICT	UNP A0R1H7
B	2443	UNK	ASN	CONFLICT	UNP A0R1H7
B	2444	UNK	PRO	CONFLICT	UNP A0R1H7
B	2445	UNK	ALA	CONFLICT	UNP A0R1H7
B	2446	UNK	PRO	CONFLICT	UNP A0R1H7
B	2447	UNK	ALA	CONFLICT	UNP A0R1H7
B	2448	UNK	PRO	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
B	2449	UNK	GLU	CONFLICT	UNP A0R1H7
B	2450	UNK	TRP	CONFLICT	UNP A0R1H7
B	2451	UNK	ASP	CONFLICT	UNP A0R1H7
B	2452	UNK	ASP	CONFLICT	UNP A0R1H7
B	2453	UNK	LEU	CONFLICT	UNP A0R1H7
C	929	UNK	GLU	CONFLICT	UNP A0R1H7
C	930	UNK	PRO	CONFLICT	UNP A0R1H7
C	931	UNK	VAL	CONFLICT	UNP A0R1H7
C	932	UNK	GLU	CONFLICT	UNP A0R1H7
C	933	UNK	VAL	CONFLICT	UNP A0R1H7
C	934	UNK	LEU	CONFLICT	UNP A0R1H7
C	935	UNK	SER	CONFLICT	UNP A0R1H7
C	936	UNK	ARG	CONFLICT	UNP A0R1H7
C	937	UNK	ARG	CONFLICT	UNP A0R1H7
C	938	UNK	GLN	CONFLICT	UNP A0R1H7
C	939	UNK	ALA	CONFLICT	UNP A0R1H7
C	940	UNK	ARG	CONFLICT	UNP A0R1H7
C	941	UNK	ARG	CONFLICT	UNP A0R1H7
C	942	UNK	ASP	CONFLICT	UNP A0R1H7
C	943	UNK	ALA	CONFLICT	UNP A0R1H7
C	944	UNK	SER	CONFLICT	UNP A0R1H7
C	974	UNK	THR	CONFLICT	UNP A0R1H7
C	975	UNK	GLU	CONFLICT	UNP A0R1H7
C	976	UNK	TRP	CONFLICT	UNP A0R1H7
C	977	UNK	GLN	CONFLICT	UNP A0R1H7
C	978	UNK	VAL	CONFLICT	UNP A0R1H7
C	979	UNK	ARG	CONFLICT	UNP A0R1H7
C	980	UNK	GLU	CONFLICT	UNP A0R1H7
C	981	UNK	GLY	CONFLICT	UNP A0R1H7
C	982	UNK	SER	CONFLICT	UNP A0R1H7
C	983	UNK	ASP	CONFLICT	UNP A0R1H7
C	984	UNK	ASN	CONFLICT	UNP A0R1H7
C	985	UNK	ARG	CONFLICT	UNP A0R1H7
C	986	UNK	SER	CONFLICT	UNP A0R1H7
C	987	UNK	ALA	CONFLICT	UNP A0R1H7
C	988	UNK	SER	CONFLICT	UNP A0R1H7
C	989	UNK	HIS	CONFLICT	UNP A0R1H7
C	990	UNK	PRO	CONFLICT	UNP A0R1H7
C	991	UNK	SER	CONFLICT	UNP A0R1H7
C	992	UNK	THR	CONFLICT	UNP A0R1H7
C	993	UNK	GLY	CONFLICT	UNP A0R1H7
C	994	UNK	ALA	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
C	995	UNK	ARG	CONFLICT	UNP A0R1H7
C	996	UNK	LEU	CONFLICT	UNP A0R1H7
C	997	UNK	GLU	CONFLICT	UNP A0R1H7
C	998	UNK	VAL	CONFLICT	UNP A0R1H7
C	999	UNK	ALA	CONFLICT	UNP A0R1H7
C	1000	UNK	ASP	CONFLICT	UNP A0R1H7
C	1001	UNK	ASP	CONFLICT	UNP A0R1H7
C	1002	UNK	GLN	CONFLICT	UNP A0R1H7
C	1003	UNK	HIS	CONFLICT	UNP A0R1H7
C	1004	UNK	VAL	CONFLICT	UNP A0R1H7
C	1005	UNK	VAL	CONFLICT	UNP A0R1H7
C	1006	UNK	LEU	CONFLICT	UNP A0R1H7
C	1007	UNK	SER	CONFLICT	UNP A0R1H7
C	1008	UNK	VAL	CONFLICT	UNP A0R1H7
C	1009	UNK	PRO	CONFLICT	UNP A0R1H7
C	1010	UNK	LEU	CONFLICT	UNP A0R1H7
C	1011	UNK	SER	CONFLICT	UNP A0R1H7
C	1012	UNK	GLY	CONFLICT	UNP A0R1H7
C	1013	UNK	THR	CONFLICT	UNP A0R1H7
C	1014	UNK	TRP	CONFLICT	UNP A0R1H7
C	1196	UNK	GLY	CONFLICT	UNP A0R1H7
C	1197	UNK	ARG	CONFLICT	UNP A0R1H7
C	1198	UNK	THR	CONFLICT	UNP A0R1H7
C	1199	UNK	GLY	CONFLICT	UNP A0R1H7
C	1200	UNK	ALA	CONFLICT	UNP A0R1H7
C	1201	UNK	ALA	CONFLICT	UNP A0R1H7
C	1202	UNK	GLU	CONFLICT	UNP A0R1H7
C	1203	UNK	LEU	CONFLICT	UNP A0R1H7
C	1204	UNK	THR	CONFLICT	UNP A0R1H7
C	1205	UNK	ASP	CONFLICT	UNP A0R1H7
C	1206	UNK	PRO	CONFLICT	UNP A0R1H7
C	1207	UNK	VAL	CONFLICT	UNP A0R1H7
C	1208	UNK	ARG	CONFLICT	UNP A0R1H7
C	1209	UNK	ALA	CONFLICT	UNP A0R1H7
C	1210	UNK	GLY	CONFLICT	UNP A0R1H7
C	1211	UNK	GLY	CONFLICT	UNP A0R1H7
C	1212	UNK	ALA	CONFLICT	UNP A0R1H7
C	1213	UNK	ILE	CONFLICT	UNP A0R1H7
C	1214	UNK	SER	CONFLICT	UNP A0R1H7
C	1215	UNK	ASP	CONFLICT	UNP A0R1H7
C	1216	UNK	ASN	CONFLICT	UNP A0R1H7
C	1217	UNK	ALA	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
C	1218	UNK	THR	CONFLICT	UNP A0R1H7
C	1219	UNK	ASP	CONFLICT	UNP A0R1H7
C	1220	UNK	THR	CONFLICT	UNP A0R1H7
C	1221	UNK	PRO	CONFLICT	UNP A0R1H7
C	1222	UNK	ARG	CONFLICT	UNP A0R1H7
C	1223	UNK	ARG	CONFLICT	UNP A0R1H7
C	1224	UNK	ARG	CONFLICT	UNP A0R1H7
C	1225	UNK	ARG	CONFLICT	UNP A0R1H7
C	1226	UNK	ARG	CONFLICT	UNP A0R1H7
C	1227	UNK	ASP	CONFLICT	UNP A0R1H7
C	2076	UNK	GLY	CONFLICT	UNP A0R1H7
C	2077	UNK	ASP	CONFLICT	UNP A0R1H7
C	2078	UNK	ILE	CONFLICT	UNP A0R1H7
C	2079	UNK	ASP	CONFLICT	UNP A0R1H7
C	2080	UNK	ALA	CONFLICT	UNP A0R1H7
C	2081	UNK	GLN	CONFLICT	UNP A0R1H7
C	2082	UNK	TRP	CONFLICT	UNP A0R1H7
C	2083	UNK	GLU	CONFLICT	UNP A0R1H7
C	2084	UNK	GLN	CONFLICT	UNP A0R1H7
C	2085	UNK	LEU	CONFLICT	UNP A0R1H7
C	2086	UNK	SER	CONFLICT	UNP A0R1H7
C	2087	UNK	GLN	CONFLICT	UNP A0R1H7
C	2088	UNK	ARG	CONFLICT	UNP A0R1H7
C	2089	UNK	PHE	CONFLICT	UNP A0R1H7
C	2090	UNK	GLU	CONFLICT	UNP A0R1H7
C	2091	UNK	GLY	CONFLICT	UNP A0R1H7
C	2092	UNK	THR	CONFLICT	UNP A0R1H7
C	2093	UNK	GLY	CONFLICT	UNP A0R1H7
C	2094	UNK	HIS	CONFLICT	UNP A0R1H7
C	2095	UNK	VAL	CONFLICT	UNP A0R1H7
C	2096	UNK	VAL	CONFLICT	UNP A0R1H7
C	2097	UNK	ALA	CONFLICT	UNP A0R1H7
C	2098	UNK	THR	CONFLICT	UNP A0R1H7
C	2099	UNK	GLN	CONFLICT	UNP A0R1H7
C	2100	UNK	ALA	CONFLICT	UNP A0R1H7
C	2101	UNK	ASN	CONFLICT	UNP A0R1H7
C	2102	UNK	TRP	CONFLICT	UNP A0R1H7
C	2103	UNK	TRP	CONFLICT	UNP A0R1H7
C	2104	UNK	GLN	CONFLICT	UNP A0R1H7
C	2105	UNK	GLY	CONFLICT	UNP A0R1H7
C	2106	UNK	LYS	CONFLICT	UNP A0R1H7
C	2107	UNK	ALA	CONFLICT	UNP A0R1H7

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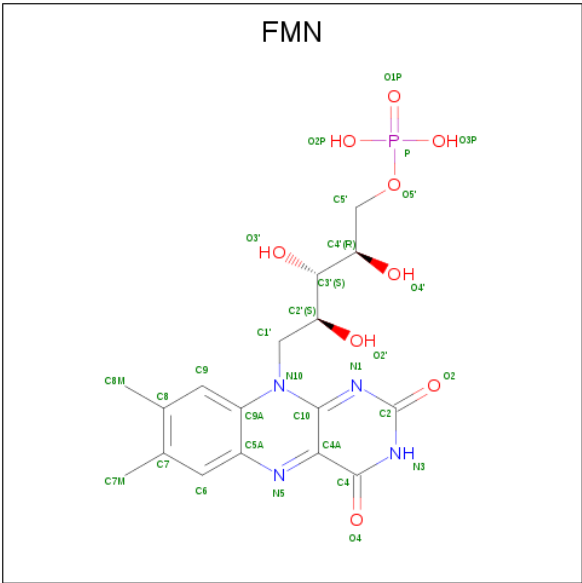
Chain	Residue	Modelled	Actual	Comment	Reference
C	2108	UNK	LEU	CONFLICT	UNP A0R1H7
C	2109	UNK	ALA	CONFLICT	UNP A0R1H7
C	2110	UNK	ALA	CONFLICT	UNP A0R1H7
C	2111	UNK	GLY	CONFLICT	UNP A0R1H7
C	2112	UNK	ARG	CONFLICT	UNP A0R1H7
C	2113	UNK	ASN	CONFLICT	UNP A0R1H7
C	2114	UNK	VAL	CONFLICT	UNP A0R1H7
C	2115	UNK	HIS	CONFLICT	UNP A0R1H7
C	2116	UNK	ALA	CONFLICT	UNP A0R1H7
C	2117	UNK	SER	CONFLICT	UNP A0R1H7
C	2118	UNK	LEU	CONFLICT	UNP A0R1H7
C	2119	UNK	PHE	CONFLICT	UNP A0R1H7
C	2120	UNK	GLY	CONFLICT	UNP A0R1H7
C	2121	UNK	ARG	CONFLICT	UNP A0R1H7
C	2122	UNK	ILE	CONFLICT	UNP A0R1H7
C	2123	UNK	ALA	CONFLICT	UNP A0R1H7
C	2124	UNK	ALA	CONFLICT	UNP A0R1H7
C	2125	UNK	GLY	CONFLICT	UNP A0R1H7
C	2126	UNK	ALA	CONFLICT	UNP A0R1H7
C	2127	UNK	GLU	CONFLICT	UNP A0R1H7
C	2128	UNK	ASN	CONFLICT	UNP A0R1H7
C	2129	UNK	PRO	CONFLICT	UNP A0R1H7
C	2130	UNK	GLY	CONFLICT	UNP A0R1H7
C	2131	UNK	LYS	CONFLICT	UNP A0R1H7
C	2132	UNK	GLY	CONFLICT	UNP A0R1H7
C	2133	UNK	ARG	CONFLICT	UNP A0R1H7
C	2134	UNK	TYR	CONFLICT	UNP A0R1H7
C	2135	UNK	SER	CONFLICT	UNP A0R1H7
C	2422	UNK	GLU	CONFLICT	UNP A0R1H7
C	2423	UNK	SER	CONFLICT	UNP A0R1H7
C	2424	UNK	ASP	CONFLICT	UNP A0R1H7
C	2425	UNK	ASP	CONFLICT	UNP A0R1H7
C	2426	UNK	GLU	CONFLICT	UNP A0R1H7
C	2427	UNK	ALA	CONFLICT	UNP A0R1H7
C	2428	UNK	PRO	CONFLICT	UNP A0R1H7
C	2429	UNK	ALA	CONFLICT	UNP A0R1H7
C	2430	UNK	GLY	CONFLICT	UNP A0R1H7
C	2431	UNK	THR	CONFLICT	UNP A0R1H7
C	2432	UNK	ILE	CONFLICT	UNP A0R1H7
C	2433	UNK	ARG	CONFLICT	UNP A0R1H7
C	2434	UNK	ALA	CONFLICT	UNP A0R1H7
C	2435	UNK	LEU	CONFLICT	UNP A0R1H7

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Chain	Residue	Modelled	Actual	Comment	Reference
C	2436	UNK	PRO	CONFLICT	UNP A0R1H7
C	2437	UNK	SER	CONFLICT	UNP A0R1H7
C	2438	UNK	PRO	CONFLICT	UNP A0R1H7
C	2439	UNK	PRO	CONFLICT	UNP A0R1H7
C	2440	UNK	ARG	CONFLICT	UNP A0R1H7
C	2441	UNK	GLY	CONFLICT	UNP A0R1H7
C	2442	UNK	TYR	CONFLICT	UNP A0R1H7
C	2443	UNK	ASN	CONFLICT	UNP A0R1H7
C	2444	UNK	PRO	CONFLICT	UNP A0R1H7
C	2445	UNK	ALA	CONFLICT	UNP A0R1H7
C	2446	UNK	PRO	CONFLICT	UNP A0R1H7
C	2447	UNK	ALA	CONFLICT	UNP A0R1H7
C	2448	UNK	PRO	CONFLICT	UNP A0R1H7
C	2449	UNK	GLU	CONFLICT	UNP A0R1H7
C	2450	UNK	TRP	CONFLICT	UNP A0R1H7
C	2451	UNK	ASP	CONFLICT	UNP A0R1H7
C	2452	UNK	ASP	CONFLICT	UNP A0R1H7
C	2453	UNK	LEU	CONFLICT	UNP A0R1H7

- Molecule 2 is FLAVIN MONONUCLEOTIDE (three-letter code: FMN) (formula: C<sub>17</sub>H<sub>21</sub>N<sub>4</sub>O<sub>9</sub>P).



Mol	Chain	Residues	Atoms					AltConf
2	D	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	E	1	Total	C	N	O	P	0
			31	17	4	9	1	

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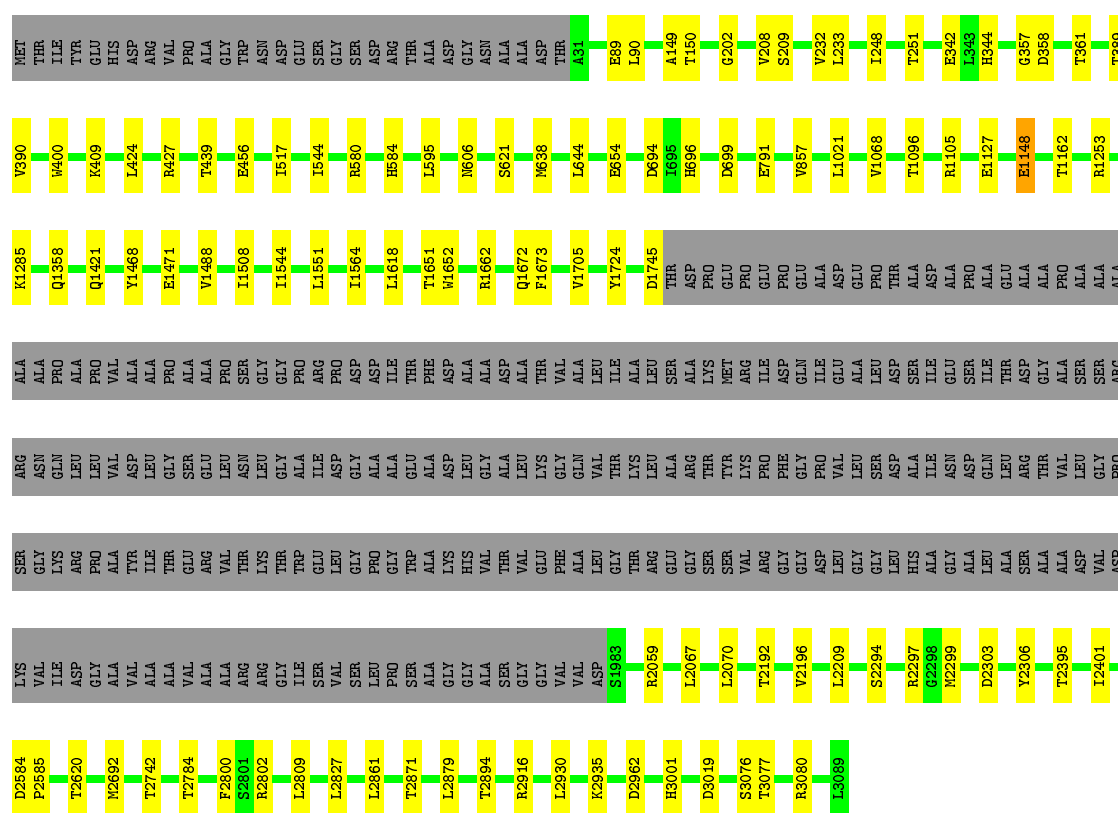
Mol	Chain	Residues	Atoms					AltConf
2	F	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	A	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	B	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	C	1	Total	C	N	O	P	0
			31	17	4	9	1	

### 3 Residue-property plots

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

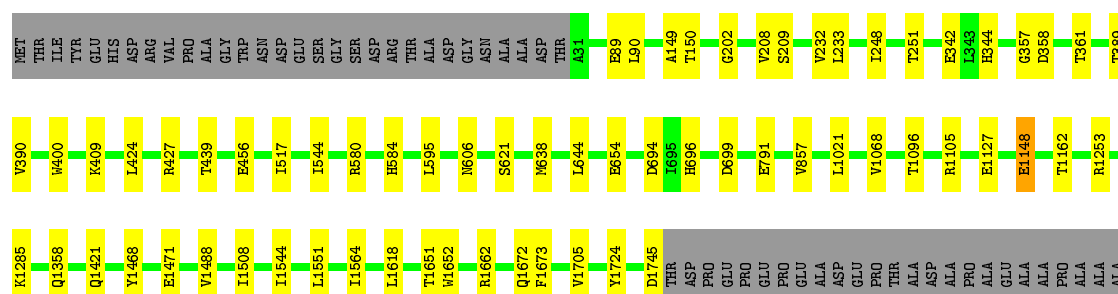
- Molecule 1: FATTY ACID SYNTHASE

Chain D:  88% 9%



- Molecule 1: FATTY ACID SYNTHASE

Chain E:  88% • 9%







WORLDWIDE  
**PDB**  
PROTEIN DATA BANK

 **EMDataBank**  
Unified Data Resource for 3DEM

GLU	ARG	ALA	E2074	D2136	W2265	L2398	W2481	R2610	L2709	D2805	P2901	L2989	GLU
LEU	VAL	ALA		E2137	W2268	L2401	E2482	V2611	L2710	R2806	P2902	G2992	THR
ASN	THR	ARG	X2077	V2140	Q2268	I2403	L2487	R2612	G2711	R2807	E2903	L2993	ILE
LEU	LYS	ARG	X2078	V2141	Q2274	L2403	L2487	R2613	E2712	R2808	E2903	L2993	TYR
GLY	THR	GLY	X2079	T2163	L2274	L2403	V2492	K2614	V2713	L2809	L2906	G2998	HIS
ILE	TRP	ILE	X2080	T2164	L2277	D2404	L2495	S2615	V2717	G2810	A2911	G2998	ASP
ASP	GLU	VAL	X2081	T2165	I2277	M2405	L2495	R2616	V2718	F2811	A2911	G2998	ARG
GLY	LEU	VAL	X2082	T2166	I2277	M2405	L2495	S2617	V2719	L2812	A2911	G2998	ASP
LEU	PRO	SER	X2083	T2167	R2286	L2408	K2503	T2620	V2722	Q2815	R2916	H3001	VAL
ALA	GLY	LEU	X2084	T2167	L2287	A2409	E2505	G2622	V2727	L2820	G2919	H3002	ALA
GLU	TRP	SER	X2085	R2170	H2288	A2412	E2505	A2623	V2727	L2821	G2920	L3005	GLY
ALA	ALA	ALA	X2086				W2512	Q2624	V2730	L2822	G2921	L3005	ASP
ASP	LYS	GLY	X2087		L2291		W2513	L2625	P2736	R2823	G2922	V3009	VAL
LEU	HIS	GLY	X2088	D2173	S2294	M2416	Y2513		P2736	R2824	G2923	V3009	ALA
GLY	VAL	ALA	X2089	D2174	P2295	S2417	L2520	D2630	C2740	L2827	G2924	F3014	GLY
ALA	THR	SER	X2090	R2175	P2296	G2418	V2521	P2631	C2741	A2828	V2925	I3015	GLY
LEU	VAL	GLY	X2091	L2176	P2297	D2421	V2522	G2632	A2743	L2829	V2926	A3016	SER
LYS	GLU	GLY	X2092	K2180	R2297	X2422	E2523	V2633	T2742	L2830	Q2927	A3017	SER
GLY	PHE	VAL	X2093	K2180	G2298	X2422	E2524	V2634	A2743	M2831	Q2927	A3017	ASP
GLN	ALA	VAL	X2094	R2188	M2299	X2423	E2525	W2650	L2754	G2832	L2930	L3018	ARG
VAL	LEU	ASP	X2095	F2189	F2300	X2431	E2526	L2651	L2755	M2833	L2931	L3019	THR
THR	GLY	GLY	X2096	F2189	F2300	X2432	E2527	L2652	L2756	L2834	L2932	D3022	ALA
LYS	THR	THR	X2097	T2192	D2303	X2433	E2528	V2653	A2759	S2835	G2933	E3023	ASP
LEU	ARG	GLU	X2098	T2192	D2303	X2434	E2529	V2654	A2759	L2836	G2934	R3023	GLY
ALA	GLU	GLU	X2099	L2193	Y2306	X2435	R2530	V2655	L2762	L2837	G2935	A3044	ASN
ARG	GLY	GLY	X2100	W2194	K2310	X2436	E2531	A2648	L2763	L2838	G2936	A3044	ALA
THR	SER	THR	X2101	W2194	K2310	X2437	F2543	L2649	L2764	L2839	G2937	P3050	ALA
TYR	SER	SER	X2102	P2196	P2196	X2438	F2544	W2651	A2764	L2840	G2938	P3051	ASP
LYS	VAL	VAL	X2103	T2197	P2197	X2439	E2545	L2652	L2765	L2841	G2939	M3051	THR
PRO	ARG	ARG	X2104	A2198	R2319	X2440	E2546	L2653	A2766	L2842	G2940	P3065	THR
PHE	GLY	GLY	X2105	A2198	R2319	X2441	E2547	V2654	L2767	L2843	G2941	P3065	THR
GLY	GLY	ASP	X2106	D2205	S2331	X2442	F2548	S2662	L2768	S2844	L2942	D3057	THR
PRO	ASP	LEU	X2107	D2205	L2332	X2443	F2549	S2663	L2769	L2845	L2943	R3058	THR
VAL	LEU	LEU	X2108	D2205	L2333	X2444	F2550	L2666	L2770	L2846	G2944	R3059	THR
LEU	GLY	GLY	X2109	D2205	H2334	X2445	F2551	T2667	L2771	L2847	G2945	P3065	THR
SER	GLY	GLY	X2110	D2205	H2334	X2446	D2552	L2668	L2772	L2848	G2946	P3065	THR
ASP	GLY	GLY	X2111	D2205	H2334	X2447	D2553	L2669	L2773	L2849	G2947	P3065	THR
LEU	LEU	LEU	X2112	D2205	H2334	X2448	D2554	L2670	L2774	L2850	G2948	P3065	THR
ASP	LEU	LEU	X2113	D2205	H2334	X2449	D2555	L2671	L2775	L2851	G2949	P3065	THR
ALA	HIS	ALA	X2114	D2205	H2334	X2450	D2556	L2672	L2776	L2852	G2950	P3065	THR
ILE	ALA	ALA	X2115	D2205	H2334	X2451	D2557	L2673	L2777	L2853	G2951	P3065	THR
ASN	GLY	ALA	X2116	D2205	H2334	X2452	D2558	L2674	L2778	L2854	G2952	P3065	THR
ASP	ALA	ALA	X2117	D2205	H2334	X2453	D2559	L2675	L2779	L2855	G2953	P3065	THR
GLN	LEU	LEU	X2118	D2205	H2334	X2454	D2560	L2676	L2780	L2856	G2954	P3065	THR
LEU	ALA	ALA	X2119	D2205	H2334	X2455	D2561	L2677	L2781	L2857	G2955	P3065	THR
ARG	SER	SER	X2120	D2205	H2334	X2456	D2562	L2678	L2782	L2858	G2956	P3065	THR
THR	ALA	ALA	X2121	D2205	H2334	X2457	D2563	L2679	L2783	L2859	G2957	P3065	THR
VAL	ALA	ALA	X2122	D2205	H2334	X2458	D2564	L2680	L2784	L2860	G2958	P3065	THR
LEU	ASP	ASP	X2123	D2205	H2334	X2459	D2565	L2681	L2785	L2861	G2959	P3065	THR
GLY	VAL	VAL	X2124	D2205	H2334	X2460	D2566	L2682	L2786	L2862	G2960	P3065	THR
PRO	ASP	ASP	X2125	D2205	H2334	X2461	D2567	L2683	L2787	L2863	G2961	P3065	THR
SER	LYS	LYS	X2126	D2205	H2334	X2462	D2568	L2684	L2788	L2864	G2962	P3065	THR
GLY	VAL	VAL	X2127	D2205	H2334	X2463	D2569	L2685	L2789	L2865	G2963	P3065	THR
LYS	ILE	ILE	X2128	D2205	H2334	X2464	D2570	L2686	L2790	L2866	G2964	P3065	THR
ASP	ASP	ASP	X2129	D2205	H2334	X2465	D2571	L2687	L2791	L2867	G2965	P3065	THR
PRO	GLY	GLY	X2130	D2205	H2334	X2466	D2572	L2688	L2792	L2868	G2966	P3065	THR
ALA	ALA	ALA	X2131	D2205	H2334	X2467	D2573	L2689	L2793	L2869	G2967	P3065	THR
THR	VAL	VAL	X2132	D2205	H2334	X2468	D2574	L2690	L2794	L2870	G2968	P3065	THR
ILE	ALA	ALA	X2133	D2205	H2334	X2469	D2575	L2691	L2795	L2871	G2969	P3065	THR
THR	VAL	VAL	X2134	D2205	H2334	X2470	D2576	L2692	L2796	L2872	G2970	P3065	THR
GLU	VAL	VAL	X2135	D2205	H2334	X2471	D2577	L2693	L2797	L2873	G2971	P3065	THR

• Molecule 1: FATTY ACID SYNTHASE

Chain B:  56% 33% 9%

MET	THR	S88	E89	L90	R94	P95	A106	L107	E111	P112	V113	K117	Q118	L119	V126	P127	G128	V129	Q133	V137	R138	A141	R142	Q143	G144	M145	V146	L147	R148	T149	A149	L150	G151	P152	V153	A154	V155	Q160	L163	A164	A167	K171	G172	A173	K174	D175	V176	E177	B178	E179	P185
THR	ILE	TYR	GLU	HIS	ASP	ARG	VAL	PRO	ALA	GLY	TRP	ASN	ASP	GLU	SER	GLY	SER	ASP	ARG	THR	ALA	ASP	GLY	ALA	ALA	ASP	THR	A31	R32	A33	L34	V35	L36	R37	L38	G41	E42	P43	Y44	A45	V46	A47	G50	S53	L56	S70	E71	E78	E84	R85	

ALA	I1703	I1611	R1495	V1408	K1304	A1193	T1096	X989	L787	G676	H584	L479	V376	D288	L179
ALA	G1704	G1612	S1496	H1412	D1307	I1194	V1097	X990	L787	G676	H585	R483	P377	P289	A180
PRO	V1705	R1613	S1496	H1412	D1307	R1195	P1098	X991	A790	A680	S586	R483	P377	P289	L181
ALA	S1707	R1614	R1503	P1413	Q1308	X1196	D1100	X992	A791	A681	E587	I485	R381	V292	L182
PRO	T1710	H1615	R1504	D1414	X1198	X1197	V1103	X993	E792	N682	E588	Q384	Q384	E293	Q183
SER	V1711	P1616	R1505	C1415	D1310	X1199	G1104	X994	A793	N683	L590	R487	Q384	V294	L184
GLY	V1712	H1617	Q1507	V1416	F1311	X1204	C1104	X995	L794	N684	L590	I488	T389	L301	R195
PRO	G1713	L1618	T1508	L1417	R1312	X1205	C1106	X996	H795	G685	L593	I489	V390	I305	R198
ARG	L1714	V1619	D1511	T1420	V1313	X1206	F1110	X997	H796	S686	L594	L490	V393	E306	I198
PRO	P1722	R1621	D1514	Q1421	R1315	X1207	V1110	X1000	D798	R688	V598	Q500	V393	I307	G202
ASP	E1723	F1623	V1519	T1423	G1317	X1212	F1111	X1001	F799	D684	R602	V501	E395	I307	D203
ASP	T1725	L1625	V1519	Q1424	I1318	X1213	A1117	X1002	E803	I695	R602	R504	E400	W311	R204
PHE	E1730	R1634	L1530	V1430	V1320	X1214	A1118	X1003	A808	H696	R606	R505	P405	T314	P206
ALA	E1731	F1532	E1531	A1431	E1323	X1215	T1119	X1004	A808	E697	R606	R505	P405	T314	P206
ALA	L1732	V1637	V1533	A1431	V1324	X1216	E1120	X1005	A808	E697	R606	R505	P405	T314	P206
ASP	L1733	P1638	V1534	V1435	V1325	X1217	F1123	X1006	A808	E697	R606	R505	P405	T314	P206
ALA	E1734	A1639	F1535	V1441	V1327	X1221	F1124	X1007	A808	E697	R606	R505	P405	T314	P206
THR	E1735	N1536	N1537	Q1441	V1327	X1221	T1126	X1008	A808	E697	R606	R505	P405	T314	P206
VAL	R1736	T1651	L1537	V1445	V1328	X1224	E1127	X1009	A808	E697	R606	R505	P405	T314	P206
ALA	D1737	R1652	R1538	V1445	A1329	X1225	G1128	X1010	A808	E697	R606	R505	P405	T314	P206
LEU			G1539	V1445	R1330	X1226	L1129	X1011	A808	E697	R606	R505	P405	T314	P206
ILE	L1741	K1656	S1540	A1448	I1331	X1227	L1132	X1012	A808	E697	R606	R505	P405	T314	P206
ALA	D1745	P1657	Q1541	I1449	L1332	X1227	L1133	X1013	A808	E697	R606	R505	P405	T314	P206
LEU		K1658	Y1542	A1450	V1336	V1228	V1133	X1014	A808	E697	R606	R505	P405	T314	P206
SER		E1659	A1543	M1337	M1337	V1228	V1133	X1015	A808	E697	R606	R505	P405	T314	P206
ALA	ASP	L1660	I1544	V1455	A1338	R1237	P1146	X1016	A808	E697	R606	R505	P405	T314	P206
LYS	PRO	G1661	I1544	V1455	A1338	R1237	P1146	X1017	A808	E697	R606	R505	P405	T314	P206
NET	GLU	R1662	L1551	E1457	R1253	V1025	E1147	X1018	A808	E697	R606	R505	P405	T314	P206
ARG	PRO	K1663	E1552	E1457	R1253	V1025	E1147	X1019	A808	E697	R606	R505	P405	T314	P206
ILE	GLU	A1553	L1554	T1459	G1268	E1034	P1149	X1020	A808	E697	R606	R505	P405	T314	P206
ASP	PRO	L1554	A1460	A1460	G1268	E1034	P1149	X1021	A808	E697	R606	R505	P405	T314	P206
GLN	GLU	E1555	A1461	A1461	M1269	E1035	E1151	X1022	A808	E697	R606	R505	P405	T314	P206
ILE	ALA	E1556	A1462	A1462	M1270	D1036	T1162	X1023	A808	E697	R606	R505	P405	T314	P206
GLU	ASP	E1557	C1463	C1463	L1271	D1037	D1163	X1024	A808	E697	R606	R505	P405	T314	P206
ALA	GLU	W1671	V1464	V1464	L1271	D1037	T1164	X1025	A808	E697	R606	R505	P405	T314	P206
LEU	PRO	F1672	V1467	V1467	A1274	V1045	G1167	X1026	A808	E697	R606	R505	P405	T314	P206
ASP	THR	A1674	Y1468	Y1468	A1275	L1046	T1168	X1027	A808	E697	R606	R505	P405	T314	P206
ILE	ALA		E1469	E1469	Q1276	H1046	R1168	X1028	A808	E697	R606	R505	P405	T314	P206
GLU	ALA	W1679	L1470	L1470	V1278	V1068	P1171	X1029	A808	E697	R606	R505	P405	T314	P206
SER	PRO		E1471	E1471	V1279	V1068	P1172	X1030	A808	E697	R606	R505	P405	T314	P206
ILE	ALA				T1280	V1072	S1173	X1031	A808	E697	R606	R505	P405	T314	P206
THR	GLU	D1684	L1474	L1474	A1281	V1077	V1174	X1032	A808	E697	R606	R505	P405	T314	P206
ASP	ALA	L1686	P1580	P1580	T1282	V1077	V1174	X1033	A808	E697	R606	R505	P405	T314	P206
GLY	ALA	F1687	F1581	F1581	D1283	V1084	R1177	X1034	A808	E697	R606	R505	P405	T314	P206
ALA	PRO		H1582	H1582	G1284	T1084	R1177	X1035	A808	E697	R606	R505	P405	T314	P206
SER	ALA	E1690	K1483	K1483	K1285	V1278	N1178	X1036	A808	E697	R606	R505	P405	T314	P206
SER	ALA	L1586	M1484	M1484	P1286	V1279	N1178	X1037	A808	E697	R606	R505	P405	T314	P206
ARG	ALA	G1594	H1485	H1485	V1287	F1087	G1088	X1038	A808	E697	R606	R505	P405	T314	P206
ASN	ALA	L1695	V1590	V1590	P1288	A1089	L1184	X1039	A808	E697	R606	R505	P405	T314	P206
GLN	ALA	R1699	I1487	I1487	P1289	L1185	L1185	X1040	A808	E697	R606	R505	P405	T314	P206
LEU	PRO	F1700	V1488	V1488	A1291	K1291	L1188	X1041	A808	E697	R606	R505	P405	T314	P206
LEU	PRO	V1701	R1490	R1490	L1292	P1093	T1094	X1042	A808	E697	R606	R505	P405	T314	P206
VAL	VAL	E1702	K1605	D1491	A1405	X1095	F1192	X1043	A808	E697	R606	R505	P405	T314	P206



ALA	V1705	I1611	R1495	A1405	W1295	R1191	T1094	X987	L787	G676	H584	L479	V376	D288	A180
ALA	K1706	G1612	S1496	V1408	K1304	F1192	L1095	X988	L787	G676	H585	R483	P377	P289	L181
PRO		R1613				A1193	T1097	X989	A790	A680	S586	R483	P377	P289	L182
GLY	T1710	P1616	R1503	V1408	K1304	A1194	V1097	X990	A790	A680	S587	R483	P377	P289	L183
GLY	A1712	H1617	R1504	H1412	D1307	R1195	P1098	X991	E791	A681	E588	I485	R381	V292	L184
PRO	G1713	L1618	I1503	P1413	Q1308	X1196	P1099	X992	A792	N682	D589	Q486	Q384	E293	
ARG	L1714	V1619	Q1507	D1414	V1309	X1197	D1100	X993	R793	G683	L590	P487	Q384	V294	
PRO		P1620	T1508	G1415	D1310	X1199	V1103	X994	L794	M684	L590	M488	T389	L301	R195
ASP	P1722	R1621	D1511	V1416	R1312	X1204	G1104	X995	H795	S686	L593	T489	V390	I305	I198
ASP	E1723	F1622		L1417	F1311	X1205	R1105	X996	Q797	S686	L594	L490	V393	I306	G202
ILE	Y1724	T1623			V1313	X1206	G1106	X997	D798	S686	L595	P501	V393	I307	D203
THR	S1725	L1625			D1314	X1207		X998	F799	R688			E395	I307	R204
PHE					R1315	X1207	V1110	X999						W311	P205
ASP	E1730				V1316	X1212	F1111	X1000	E503	D684	R602	R504	W400		
ALA	V1731	R1634	V1519	F1422	G1317	X1212	X1001	X1001	E503	I695		R505	W400	T314	P206
ALA	L1732			T1423	V1317	X1213	X1002	X1002	A508	H696		R505	L416	T314	M207
ASP	N1733	V1637	E1530	Q1424	I1318	X1214	A1117	X1003	A508	E697	N606	Q508	P405	V315	V208
ASP	N1734	P1638	E1531	V1425	D1319	X1214	A1118	X1004	X929	I698		Q508	T406	G316	S209
ALA	E1735	A1639	V1532		V1320	X1215	T1119	X1005	X930	I699	G613		V407	I317	V210
THR			V1533	V1430		X1216	E1120	X1006	X931	M700	G614	R511	V403		T211
VAL			M1534	A1431	E1323	X1217		X1007	L216	A701			K409	E327	
ALA			L1537	A1431	V1324	X1218	F1123	X1008	E317	L709	P618	A515	L410	S328	L222
ALA			N1536	V1435	L1325	X1219	P1124	X1009	X934			P516	P411	I329	V232
ILE	W1652		L1537		E1326	X1220	V1125	X1010	X935	A713	S621	I517	D412	L330	
ALA			L1538	Q1441	V1327	X1221	E1127	X1011	X936						L233
LEU			G1539		S1328		G1128	X1012	X937	A716	W624		V415	W336	
LEU			S1540	V1445	R1330	X1224	L1129	X1013	X938		L625	V521	L416		V236
SER			E1541		I1331	X1225	L1129	X1014	X939	P831	L625	V521	L416	E339	V237
ALA			Y1542	A1448		X1226		X1015	X940	W719	N629	S523	L418	I340	S238
NET			A1543	I1449		X1227		X1016	X941				T419	T341	
ARG			I1544	A1450		V1228	L1132	X1017	X942	K735	P636	I526	K420	E342	T248
ILE					V1336		V1133	X1018	X943	W736	L637			I343	T249
ASP					M1337			X1019	X944	Y737	W639	D634	L424	H344	G250
GLN					A1338		P1146	T1020							T251
GLU					A1339		K1147	L1021	L957	T745	D641	E538	R427	A348	
GLU						R1253	E1149	V1025	L353	Y746	G642	I539	R349	R349	L255
GLU					R1342		P1149		G554	L747	L643	N540	T436	H350	S256
ALA					L1343		A1150	E1034	G554	Q748	L644	E541	P437	I351	R257
LEU					A1344		E1151	V1035	P855	W749		V542	T438	L352	
ASP					P1345		T1162	D1036	P856	L750	W647	G543	T439	D353	L260
SER						L1271	D1163	D1037	N858	R751		I544	W440	I354	
ILE							T1164		P859			H546	D441	L354	A266
ALA					Y1350	A1274		V1045	P866	L756	P654	H546	A442	P356	A267
PRO					A1351	A1275	G1167	L1046	P863				K443	P357	V268
ILE					F1352	Q1276	A1167		V862	S763	W656	F549	K443	D358	E269
THR					P1353	H1277	A1168		V862		S658	R500	V445	I359	E270
GLY						V1278	P1171	V1068	R668	D766		P551	N450	L360	A271
ALA					I1357	V1279	V1172		R672	K768				T361	E272
ALA					Q1358	T1280	S1173	W1072	R672	K768				R362	R273
ALA						A1281	V1174	V1077	D874	L775	L664		E456	L363	
SER					M1362	T1282			S875	D776				T364	K276
SER						D1283	R1177	T1084	S875	D776				I364	K277
ARG					V1376	G1284	N1178		L876	V777	L665		G460	A365	L277
ASN						K1285	A1179	F1087	N877	V778	V666		G461	P366	R278
GLN					A1380	V1286			X980	W779	H575		Q462	V367	G279
ALA					D1381	V1287		G1088	X981	I576	W669		I576	I368	G280
ALA						V1288	L1184	A1089	X982	R760	X683		F468	R369	G281
LEU					S1391	P1289	L1185	F1090	X983	D761	G670				V282
VAL						A1290									
ASP					P1499	X1291	L1188	A1092	E385	R762	W671		L475	I373	V286
LEU					R1490	X1291			A386	F793			E476	G374	
GLY					D1491	L1292			D687	E784				I375	F287

G2992	L2906	R2808	Q2711	P2612	M2481	L2398	K2261	D2136	L2070	VAL	GLU
L2993	L2906	L2809	E2712	R2613	E2482	L2401	K2261	E2137	E2074	ALA	ARG
V2994	A2911	G2810	V2713	K2614	V2483	K2402	W2265	V2140		ARG	THR
T2995		F2811				L2403	W2265	V2141		ARG	THR
G2998	R2916	L2812	V2717	L2617	L2487	D2404	Q2268	T2163	X2077	GLY	THR
		Q2815	V2718	S2618	V2492	M2405	Q2268	T2163	X2078	ILE	ALA
	G2919		V2722	R2619	V2492		L2274	T2163	X2079	GLU	TRP
H3001	N2920	L2820		V2621	L2495	L2408	L2274	T2165	X2080	SER	GLU
V3002	P2921	L2821	V2727	G2622	K2503	A2409	I2277	T2166	X2081	VAL	LEU
	L2922	L2822	V2727	A2623	K2503			T2167	X2082	SER	GLY
L3005	F2923	A2823	Y2730	Q2624	W2504	A2412	R2286		X2083	PRO	ALA
	L2924	R2824		L2625	E2505		L2287		X2084	GLY	ALA
V3009	V2925		P2736		E2505		H2288	R2170	X2085	TRP	GLU
	S2926	L2827		D2630	W2512	M2416			X2086	ALA	ALA
F3014	Q2927	A2828	C2740	P2631	Y2513	S2417	L2291	D2173	X2087	LYS	ASP
I3015		L2829	A2741	T2632	Y2513	G2418		D2174	X2088	GLY	LEU
A3016	L2930	K2830	T2742	V2633	L2520	D2421		R2175	X2089	ALA	GLY
A3017		M2831	A2743		L2521	X2422	S2294	L2176	X2090	THR	ALA
L3018	K2935	G2832		D2645	F2522		P2295	L2176	X2091	GLY	VAL
D3019	G2936	L2833	S2746	R2646	E2523	X2425	N2296	K2180	X2092	GLY	LYS
		V2834	V2751	V2647	C2524	X2426	R2297		X2093	VAL	GLY
E3022	A2939	V2835		A2648	E2525	X2427	G2298	R1188	X2094	ASP	GLN
	V2940			L2649	E2526	X2428	M2299	F2189	X2095	VAL	VAL
A3044	F2941	Q2843	L2754	L2650	W2527	X2429	F2300	T2192	X2096	GLY	THR
P3050	Q2942	G2847		N2651	E2528	X2430		L2193	X2097	THR	LYS
M3051	L2946	D2847	V2762	W2650	E2528	X2431	D2303	L2193	X2098	LEU	LEU
				N2651	E2528	X2432		W2194	X2099	ARG	ALA
D3057	C2947	G2848	L2763	W2651	E2528	X2433	Y2306	T2195	X2100	GLY	ALA
R3058	Q2948		A2764	V2653	Y2530	X2434		P2197	X2101	SER	THR
R3059			G2765			X2435	K2310	L2197	X2102	SER	TYR
		G2859		S2662	A2533	X2436	R2319	A2198	X2103	VAL	LYS
H3062	R2951	A2860	D2768	P2666	R2541	X2437		E2199	X2104	ARG	PRO
		L2861	D2769	T2667	E2542	X2437	S2331	M2200	X2105	ARG	PHE
P3065	V2954	T2871	L2770	W2672	F2543	X2442	L2332	D2205	X2107	GLY	GLY
E3066	P2956					X2443	A2333		X2108	ASP	PRO
	P2957	L2876	E2773	A2679	P2561	X2444	H2334			LEU	VAL
	N2958			S2680	H2563	X2445	W2339	L2209	L2011	GLY	LEU
R2959	S2960	L2879	L2776	T2681	A2564			E2210	L2012	GLY	SER
L2961	D2962	V2881	G2779	M2686	L2567	X2449	Q2348	E2211	L2013	LEU	ASP
S3076		G2882		T2690	L2568	X2450	G2214	W2212	S2014	HIS	ALA
T3077		A2883	T2784	S2691	L2568	X2451	T2215	G2214	D2015	ALA	ILE
		D2884	A2785	Q2693	L2568	X2452	T2215	T2215	V2016	GLY	ASN
R3080	D2966	L2886	D2786	Q2693	E2574	X2453	L2352	E2216	X2117	ALA	ASP
L3081			T2787	T2694	F2580	D2454	S2354		X2118	LEU	GLN
			E2788	M2695				R2229	X2119	ALA	LEU
L3089	W2976	L2889	M2789	M2695	D2584	A2458	E2358		X2120	SER	ARG
	R2977	S2890	M2790	H2697	P2585	V2461	V2361	T2234	X2121	ALA	THR
	E2979	K2891	M2791	G2698	E2586	V2462	W2372	T2235	X2122	ASP	VAL
	P2980	H2892	K2799	N2699				T2236	X2123	VAL	GLY
	L2983	D2893	K2799	L2700	R2591	E2468	L2376	T2237	X2124	ASP	PRO
R2984	R2984	T2894	F2800	P2592	P2592	L2469	L2376	L2237	X2125	LYS	SER
G2985	G2985	S2895	S2801	W2599	W2599	G2470	R2244	L2237	X2126	ILE	GLY
K2986	K2986	T2896	R2802	K2705	P2706	P2471	V2391	L2237	X2127	ASP	ARG
F2987	F2987			P2706	R2603	Y2472	V2391	A2246	X2128	ASP	PRO
P2988		P2901	D2805	I2709	R2610	R2478	D2393		X2129	GLY	ALA
L2989		N2902	R2806	L2710	V2611		T2395	V2252	X2130	ALA	ALA
		E2903	R2807					R2255	X2131	VAL	TYR
									X2132	ALA	ILE
									X2135	ALA	THR

## 4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D3	Depositor
Number of particles used	106884	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	EACH IMAGE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	20	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	100000	Depositor
Image detector	FEI FALCON I (4k x 4k)	Depositor

## 5 Model quality

### 5.1 Standard geometry

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

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	$\# Z  > 2$	RMSZ	$\# Z  > 2$
1	A	0.24	0/20319	0.48	0/27667
1	B	0.24	0/20319	0.48	0/27667
1	C	0.24	0/20319	0.48	0/27667
1	D	0.24	0/20319	0.48	0/27667
1	E	0.24	0/20319	0.48	0/27667
1	F	0.24	0/20319	0.48	0/27667
All	All	0.24	0/121914	0.48	0/166002

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	5
1	B	0	5
1	C	0	5
1	D	0	5
1	E	0	5
1	F	0	5
All	All	0	30

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (30) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1148	GLU	Peptide

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Mol	Chain	Res	Type	Group
1	A	150	THR	Peptide
1	A	202	GLY	Peptide
1	A	2584	ASP	Peptide
1	A	357	GLY	Peptide
1	B	1148	GLU	Peptide
1	B	150	THR	Peptide
1	B	202	GLY	Peptide
1	B	2584	ASP	Peptide
1	B	357	GLY	Peptide
1	C	1148	GLU	Peptide
1	C	150	THR	Peptide
1	C	202	GLY	Peptide
1	C	2584	ASP	Peptide
1	C	357	GLY	Peptide
1	D	1148	GLU	Peptide
1	D	150	THR	Peptide
1	D	202	GLY	Peptide
1	D	2584	ASP	Peptide
1	D	357	GLY	Peptide
1	E	1148	GLU	Peptide
1	E	150	THR	Peptide
1	E	202	GLY	Peptide
1	E	2584	ASP	Peptide
1	E	357	GLY	Peptide
1	F	1148	GLU	Peptide
1	F	150	THR	Peptide
1	F	202	GLY	Peptide
1	F	2584	ASP	Peptide
1	F	357	GLY	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	21020	0	20990	1056	0
1	B	21020	0	20990	1067	0
1	C	21020	0	20990	1051	0
1	D	21020	0	20990	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	21020	0	20990	0	0
1	F	21020	0	20990	0	0
2	A	31	0	19	5	0
2	B	31	0	19	5	0
2	C	31	0	19	4	0
2	D	31	0	19	0	0
2	E	31	0	19	0	0
2	F	31	0	19	0	0
All	All	126306	0	126054	3117	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 25.

All (3117) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:793:ARG:O	1:A:2435:UNK:HG2	1.31	1.30
1:B:793:ARG:O	1:B:2435:UNK:HG2	1.31	1.28
1:B:2100:UNK:O	1:B:2103:UNK:HG3	1.36	1.26
1:A:2105:UNK:O	1:A:2108:UNK:HG3	1.34	1.25
1:B:2105:UNK:O	1:B:2108:UNK:HG3	1.34	1.25
1:C:2100:UNK:O	1:C:2103:UNK:HG3	1.36	1.23
1:C:793:ARG:O	1:C:2435:UNK:HG2	1.31	1.23
1:A:2093:UNK:HG1	1:A:2129:UNK:O	1.40	1.22
1:A:2100:UNK:O	1:A:2103:UNK:HG3	1.36	1.21
1:C:2093:UNK:HG1	1:C:2129:UNK:O	1.39	1.21
1:C:2105:UNK:O	1:C:2108:UNK:HG3	1.34	1.21
1:B:992:UNK:CG	1:B:996:UNK:HG3	1.72	1.20
1:C:992:UNK:CG	1:C:996:UNK:HG3	1.72	1.18
1:B:2093:UNK:HG1	1:B:2129:UNK:O	1.39	1.18
1:A:992:UNK:CG	1:A:996:UNK:HG3	1.72	1.18
1:B:2451:UNK:HG1	1:B:2454:ASP:OD2	1.44	1.17
1:C:2451:UNK:HG1	1:C:2454:ASP:OD2	1.44	1.16
1:A:2451:UNK:HG1	1:A:2454:ASP:OD2	1.44	1.15
1:C:2094:UNK:HG2	1:C:2096:UNK:HG3	1.32	1.12
1:C:2450:UNK:HG1	1:C:3016:ALA:HB1	1.23	1.11
1:A:2450:UNK:HG1	1:A:3016:ALA:HB1	1.23	1.11
1:B:2097:UNK:O	1:B:2100:UNK:HG3	1.51	1.10
1:B:2450:UNK:HG1	1:B:3016:ALA:HB1	1.23	1.09
1:A:2097:UNK:O	1:A:2100:UNK:HG3	1.51	1.09
1:B:975:UNK:HG3	1:B:993:UNK:CG	1.83	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2097:UNK:O	1:C:2100:UNK:HG3	1.51	1.09
1:A:975:UNK:HG3	1:A:993:UNK:CG	1.82	1.08
1:A:2094:UNK:HG2	1:A:2096:UNK:HG3	1.32	1.08
1:C:975:UNK:HG3	1:C:993:UNK:CG	1.83	1.07
1:B:2094:UNK:HG2	1:B:2096:UNK:HG3	1.32	1.07
1:A:981:UNK:HG1	1:A:987:UNK:HG2	1.37	1.06
1:C:981:UNK:HG1	1:C:987:UNK:HG2	1.37	1.04
1:C:934:UNK:O	1:C:937:UNK:HG3	1.57	1.04
1:A:934:UNK:O	1:A:937:UNK:HG3	1.58	1.03
1:B:981:UNK:HG1	1:B:987:UNK:HG2	1.37	1.02
1:B:934:UNK:O	1:B:937:UNK:HG3	1.57	1.02
1:B:2094:UNK:CG	1:B:2096:UNK:HG3	1.90	1.02
1:C:975:UNK:CG	1:C:993:UNK:HG1	1.90	1.01
1:C:992:UNK:CG	1:C:996:UNK:CG	2.39	1.01
1:B:975:UNK:CG	1:B:993:UNK:HG1	1.90	1.01
1:A:975:UNK:CG	1:A:993:UNK:HG1	1.89	1.01
1:C:2094:UNK:CG	1:C:2096:UNK:HG3	1.90	1.01
1:C:932:UNK:O	1:C:936:UNK:HG2	1.61	1.00
1:A:2094:UNK:CG	1:A:2096:UNK:HG3	1.90	1.00
1:B:2088:UNK:O	1:B:2091:UNK:HG3	1.61	1.00
1:A:992:UNK:CG	1:A:996:UNK:CG	2.39	1.00
1:A:2113:UNK:O	1:A:2116:UNK:HG3	1.62	1.00
1:C:2113:UNK:O	1:C:2116:UNK:HG3	1.62	1.00
1:B:992:UNK:CG	1:B:996:UNK:CG	2.39	0.99
1:B:1220:UNK:HG3	1:B:1221:UNK:N	1.78	0.99
1:B:2433:UNK:HA	1:B:2524:CYS:HB3	1.44	0.99
1:A:2088:UNK:O	1:A:2091:UNK:HG3	1.61	0.99
1:B:976:UNK:HG3	1:B:993:UNK:HB1	1.43	0.99
1:B:932:UNK:O	1:B:936:UNK:HG2	1.61	0.99
1:C:2088:UNK:O	1:C:2091:UNK:HG3	1.61	0.99
1:A:992:UNK:HG1	1:A:996:UNK:HG3	1.41	0.98
1:B:792:ALA:O	1:B:2433:UNK:CG	2.12	0.98
1:A:932:UNK:O	1:A:936:UNK:HG2	1.61	0.98
1:A:792:ALA:O	1:A:2433:UNK:CG	2.12	0.98
1:B:2113:UNK:O	1:B:2116:UNK:HG3	1.62	0.98
1:C:1220:UNK:HG3	1:C:1221:UNK:N	1.78	0.98
1:C:792:ALA:O	1:C:2433:UNK:CG	2.12	0.98
1:C:992:UNK:HG1	1:C:996:UNK:HG3	1.41	0.98
1:A:976:UNK:HG3	1:A:993:UNK:HB1	1.43	0.98
1:B:992:UNK:HG1	1:B:996:UNK:HG3	1.41	0.97
1:C:975:UNK:HG3	1:C:993:UNK:HG1	0.99	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2096:UNK:O	1:B:2099:UNK:HG3	1.65	0.97
1:A:2433:UNK:HA	1:A:2524:CYS:HB3	1.44	0.97
1:C:1003:UNK:HG2	1:C:1004:UNK:N	1.78	0.97
1:B:975:UNK:HG3	1:B:993:UNK:HG1	0.99	0.97
1:C:407:VAL:HB	1:C:933:UNK:HG1	1.47	0.96
1:A:3080:ARG:HG3	1:A:3080:ARG:HH11	1.29	0.96
1:B:1003:UNK:HG2	1:B:1004:UNK:N	1.78	0.96
1:C:2096:UNK:O	1:C:2099:UNK:HG3	1.65	0.96
1:C:2433:UNK:HA	1:C:2524:CYS:HB3	1.44	0.96
1:A:2096:UNK:O	1:A:2099:UNK:HG3	1.65	0.96
1:B:407:VAL:HB	1:B:933:UNK:HG1	1.47	0.96
1:C:3080:ARG:HG3	1:C:3080:ARG:HH11	1.29	0.96
1:A:407:VAL:HB	1:A:933:UNK:HG1	1.47	0.96
1:A:1220:UNK:HG3	1:A:1221:UNK:N	1.78	0.95
1:A:793:ARG:HD3	1:A:2435:UNK:HG1	1.48	0.95
1:C:976:UNK:HG3	1:C:993:UNK:HB1	1.43	0.95
1:A:975:UNK:HG3	1:A:993:UNK:HG1	0.99	0.95
1:B:3080:ARG:HG3	1:B:3080:ARG:HH11	1.29	0.95
1:A:792:ALA:O	1:A:2433:UNK:HG1	1.67	0.94
1:C:792:ALA:O	1:C:2433:UNK:HG1	1.67	0.94
1:A:1003:UNK:HG2	1:A:1004:UNK:N	1.79	0.94
1:B:792:ALA:O	1:B:2433:UNK:HG1	1.67	0.94
1:B:793:ARG:HD3	1:B:2435:UNK:HG1	1.48	0.94
1:B:992:UNK:HG1	1:B:996:UNK:CG	1.97	0.93
1:C:793:ARG:HD3	1:C:2435:UNK:HG1	1.48	0.93
1:A:793:ARG:O	1:A:2435:UNK:CG	2.16	0.93
1:C:793:ARG:O	1:C:2435:UNK:CG	2.17	0.93
1:A:992:UNK:HG1	1:A:996:UNK:CG	1.97	0.93
1:B:793:ARG:O	1:B:2435:UNK:CG	2.17	0.93
1:C:1212:UNK:HG2	1:C:1342:ARG:HH21	1.32	0.93
1:A:929:UNK:O	1:A:930:UNK:HG3	1.69	0.93
1:A:2127:UNK:O	1:A:2130:UNK:HG3	1.69	0.93
1:B:2127:UNK:O	1:B:2130:UNK:HG3	1.70	0.92
1:B:929:UNK:O	1:B:930:UNK:HG3	1.69	0.92
1:B:1225:UNK:HG1	1:B:1283:ASP:OD1	1.70	0.92
1:C:992:UNK:HG1	1:C:996:UNK:CG	1.97	0.92
1:C:1225:UNK:HG1	1:C:1283:ASP:OD1	1.70	0.92
1:A:1013:UNK:HG2	1:A:1014:UNK:N	1.84	0.91
1:A:939:UNK:O	1:A:940:UNK:HG3	1.70	0.91
1:C:1012:UNK:O	1:C:1013:UNK:HG3	1.69	0.91
1:C:939:UNK:O	1:C:940:UNK:HG3	1.70	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1212:UNK:HG2	1:A:1342:ARG:HH21	1.32	0.91
1:B:1212:UNK:HG2	1:B:1342:ARG:HH21	1.32	0.91
1:A:1225:UNK:HG1	1:A:1283:ASP:OD1	1.70	0.91
1:C:2127:UNK:O	1:C:2130:UNK:HG3	1.69	0.91
1:B:1012:UNK:O	1:B:1013:UNK:HG3	1.69	0.91
1:A:2112:UNK:O	1:A:2115:UNK:HG3	1.70	0.91
1:B:2112:UNK:O	1:B:2115:UNK:HG3	1.70	0.91
1:A:943:UNK:O	1:A:944:UNK:HG3	1.71	0.91
1:C:929:UNK:O	1:C:930:UNK:HG3	1.69	0.91
1:C:1013:UNK:HG2	1:C:1014:UNK:N	1.84	0.90
1:C:943:UNK:O	1:C:944:UNK:HG3	1.71	0.90
1:C:2112:UNK:O	1:C:2115:UNK:HG3	1.70	0.90
1:A:1012:UNK:O	1:A:1013:UNK:HG3	1.69	0.90
1:B:939:UNK:O	1:B:940:UNK:HG3	1.70	0.90
1:B:943:UNK:O	1:B:944:UNK:HG3	1.71	0.90
1:B:1013:UNK:HG2	1:B:1014:UNK:N	1.84	0.90
1:C:2093:UNK:HA	1:C:2097:UNK:HG1	1.52	0.90
1:C:981:UNK:CG	1:C:987:UNK:HG2	2.02	0.89
1:B:2093:UNK:HA	1:B:2097:UNK:HG1	1.52	0.89
1:A:2093:UNK:HA	1:A:2097:UNK:HG1	1.52	0.89
1:A:981:UNK:CG	1:A:987:UNK:HG2	2.02	0.89
1:C:1002:UNK:O	1:C:1003:UNK:HG3	1.73	0.89
1:C:2434:UNK:HG3	1:C:2524:CYS:HA	1.54	0.89
1:B:1002:UNK:O	1:B:1003:UNK:HG3	1.73	0.89
1:B:2103:UNK:HG2	1:B:2104:UNK:N	1.89	0.88
1:B:981:UNK:CG	1:B:987:UNK:HG2	2.02	0.88
1:B:2100:UNK:O	1:B:2103:UNK:CG	2.22	0.88
1:C:2100:UNK:O	1:C:2103:UNK:CG	2.22	0.88
1:C:928:ALA:HB1	1:C:931:UNK:HB1	1.55	0.88
1:A:1002:UNK:O	1:A:1003:UNK:HG3	1.73	0.88
1:B:2112:UNK:H	1:B:2115:UNK:CG	1.87	0.88
1:A:2103:UNK:HG2	1:A:2104:UNK:N	1.89	0.87
1:A:2451:UNK:CG	1:A:2454:ASP:OD2	2.22	0.87
1:B:2112:UNK:H	1:B:2115:UNK:HG1	1.40	0.87
1:A:2434:UNK:HG3	1:A:2524:CYS:HA	1.54	0.87
1:B:2434:UNK:HG3	1:B:2524:CYS:HA	1.54	0.87
1:B:928:ALA:HB1	1:B:931:UNK:HB1	1.55	0.87
1:C:2112:UNK:H	1:C:2115:UNK:HG1	1.40	0.87
1:B:2086:UNK:O	1:B:2089:UNK:HG3	1.74	0.87
1:A:928:ALA:HB1	1:A:931:UNK:HB1	1.55	0.87
1:B:2126:UNK:O	1:B:2129:UNK:HG3	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2086:UNK:O	1:A:2089:UNK:HG3	1.74	0.86
1:A:2112:UNK:H	1:A:2115:UNK:CG	1.87	0.86
1:C:992:UNK:CG	1:C:994:UNK:HG3	2.05	0.86
1:A:2112:UNK:H	1:A:2115:UNK:HG1	1.40	0.86
1:C:2112:UNK:H	1:C:2115:UNK:CG	1.87	0.86
1:C:2451:UNK:CG	1:C:2454:ASP:OD2	2.22	0.86
1:A:2126:UNK:O	1:A:2129:UNK:HG3	1.75	0.86
1:A:992:UNK:CG	1:A:994:UNK:HG3	2.05	0.86
1:C:2086:UNK:O	1:C:2089:UNK:HG3	1.74	0.86
1:B:992:UNK:CG	1:B:994:UNK:CG	2.53	0.86
1:A:2100:UNK:O	1:A:2103:UNK:CG	2.22	0.86
1:B:2451:UNK:CG	1:B:2454:ASP:OD2	2.22	0.86
1:A:931:UNK:HG1	1:A:933:UNK:CG	2.06	0.86
1:A:992:UNK:CG	1:A:994:UNK:CG	2.53	0.86
1:C:2126:UNK:O	1:C:2129:UNK:HG3	1.75	0.86
1:C:992:UNK:CG	1:C:994:UNK:CG	2.53	0.85
1:A:2085:UNK:O	1:A:2088:UNK:HG3	1.76	0.85
1:B:2081:UNK:O	1:B:2084:UNK:HG3	1.76	0.85
1:B:992:UNK:CG	1:B:994:UNK:HG3	2.05	0.85
1:C:2103:UNK:HG2	1:C:2104:UNK:N	1.89	0.85
1:B:1218:UNK:HG2	1:B:1441:GLN:OE1	1.77	0.85
1:B:2085:UNK:O	1:B:2088:UNK:HG3	1.76	0.85
1:B:935:UNK:O	1:B:939:UNK:HG3	1.77	0.85
1:C:2081:UNK:O	1:C:2084:UNK:HG3	1.76	0.85
1:C:1218:UNK:HG2	1:C:1441:GLN:OE1	1.77	0.85
1:C:2085:UNK:O	1:C:2088:UNK:HG3	1.76	0.85
1:A:1218:UNK:HG2	1:A:1441:GLN:OE1	1.77	0.85
1:A:935:UNK:O	1:A:939:UNK:HG3	1.77	0.85
1:A:2118:UNK:O	1:A:2122:UNK:HG3	1.76	0.85
1:B:2118:UNK:O	1:B:2122:UNK:HG3	1.76	0.84
1:A:2081:UNK:O	1:A:2084:UNK:HG3	1.76	0.84
1:A:992:UNK:HG3	1:A:996:UNK:CG	2.07	0.84
1:B:931:UNK:HG1	1:B:933:UNK:CG	2.06	0.84
1:A:999:UNK:HG2	1:A:1007:UNK:CG	2.07	0.84
1:C:2118:UNK:O	1:C:2122:UNK:HG3	1.76	0.84
1:B:1538:ARG:HH11	1:B:1722:PRO:HB3	1.43	0.84
1:C:935:UNK:O	1:C:939:UNK:HG3	1.77	0.84
1:B:999:UNK:HG2	1:B:1007:UNK:CG	2.07	0.84
1:C:931:UNK:HG1	1:C:933:UNK:CG	2.06	0.83
1:A:43:PRO:HG2	1:A:348:ALA:HA	1.60	0.83
1:C:992:UNK:HG3	1:C:996:UNK:CG	2.07	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2105:UNK:O	1:B:2108:UNK:CG	2.24	0.83
1:A:992:UNK:HG1	1:A:994:UNK:CG	2.09	0.83
1:C:1538:ARG:HH11	1:C:1722:PRO:HB3	1.43	0.82
1:C:999:UNK:O	1:C:1007:UNK:HG3	1.80	0.82
1:C:2097:UNK:O	1:C:2100:UNK:CG	2.27	0.82
1:B:992:UNK:HG3	1:B:996:UNK:CG	2.07	0.82
1:B:992:UNK:HG1	1:B:994:UNK:CG	2.09	0.82
1:C:999:UNK:HG2	1:C:1007:UNK:CG	2.07	0.82
1:A:2097:UNK:O	1:A:2100:UNK:CG	2.27	0.82
1:C:992:UNK:HG1	1:C:994:UNK:CG	2.09	0.82
1:A:2016:VAL:HG13	1:A:2020:PRO:HG3	1.62	0.82
1:B:2097:UNK:O	1:B:2100:UNK:CG	2.27	0.82
1:C:2016:VAL:HG13	1:C:2020:PRO:HG3	1.62	0.82
1:B:999:UNK:O	1:B:1007:UNK:HG3	1.80	0.81
1:A:2105:UNK:O	1:A:2108:UNK:CG	2.25	0.81
1:A:2093:UNK:CG	1:A:2129:UNK:O	2.27	0.81
1:B:2730:TYR:OH	1:B:3059:ARG:NH1	2.14	0.81
1:B:43:PRO:HG2	1:B:348:ALA:HA	1.60	0.81
1:B:2016:VAL:HG13	1:B:2020:PRO:HG3	1.62	0.81
1:A:967:VAL:HA	1:A:970:ILE:HB	1.63	0.81
1:C:2091:UNK:O	1:C:2132:UNK:HG1	1.80	0.81
1:C:43:PRO:HG2	1:C:348:ALA:HA	1.60	0.81
1:C:138:ARG:NH2	1:C:175:ASP:OD2	2.14	0.81
1:A:2091:UNK:O	1:A:2132:UNK:HG1	1.80	0.81
1:A:2730:TYR:OH	1:A:3059:ARG:NH1	2.14	0.81
1:B:2091:UNK:O	1:B:2132:UNK:HG1	1.80	0.81
1:A:138:ARG:NH2	1:A:175:ASP:OD2	2.14	0.80
1:B:2093:UNK:CG	1:B:2129:UNK:O	2.27	0.80
1:C:46:VAL:HB	1:C:155:VAL:HG13	1.63	0.80
1:A:995:UNK:HB1	1:A:1011:UNK:HG3	1.63	0.80
1:A:1538:ARG:HH11	1:A:1722:PRO:HB3	1.43	0.80
1:C:2093:UNK:CG	1:C:2129:UNK:O	2.27	0.80
1:B:995:UNK:HB1	1:B:1011:UNK:HG3	1.63	0.80
1:C:2730:TYR:OH	1:C:3059:ARG:NH1	2.14	0.80
1:A:931:UNK:CG	1:A:933:UNK:CG	2.60	0.80
1:C:2123:UNK:O	1:C:2126:UNK:HG3	1.82	0.80
1:B:138:ARG:NH2	1:B:175:ASP:OD2	2.14	0.80
1:C:967:VAL:HA	1:C:970:ILE:HB	1.63	0.80
1:A:1001:UNK:HG1	1:A:1018:ARG:NH2	1.97	0.80
1:B:46:VAL:HB	1:B:155:VAL:HG13	1.63	0.80
1:A:999:UNK:O	1:A:1007:UNK:HG3	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:273:ARG:HB2	1:C:282:VAL:H	1.47	0.80
1:C:1001:UNK:HG1	1:C:1018:ARG:NH2	1.97	0.79
1:A:46:VAL:HB	1:A:155:VAL:HG13	1.63	0.79
1:B:931:UNK:CG	1:B:933:UNK:CG	2.60	0.79
1:C:2105:UNK:O	1:C:2108:UNK:CG	2.24	0.79
1:C:1220:UNK:CG	1:C:1221:UNK:N	2.46	0.79
1:A:2098:UNK:O	1:A:2102:UNK:HG3	1.82	0.79
1:B:1001:UNK:HG1	1:B:1018:ARG:NH2	1.97	0.79
1:B:2610:ARG:HH12	1:B:2700:LEU:HD11	1.47	0.79
1:C:931:UNK:CG	1:C:933:UNK:CG	2.60	0.79
1:A:273:ARG:HB2	1:A:282:VAL:H	1.47	0.79
1:B:2084:UNK:O	1:B:2087:UNK:HG3	1.82	0.79
1:B:2098:UNK:O	1:B:2102:UNK:HG3	1.82	0.78
1:C:2077:UNK:HG2	1:C:2079:UNK:HG3	1.65	0.78
1:B:2077:UNK:HG2	1:B:2079:UNK:HG3	1.65	0.78
1:B:2123:UNK:O	1:B:2126:UNK:HG3	1.82	0.78
1:A:931:UNK:HG1	1:A:933:UNK:HG2	1.65	0.78
1:C:2610:ARG:HH12	1:C:2700:LEU:HD11	1.47	0.78
1:C:995:UNK:HB1	1:C:1011:UNK:HG3	1.63	0.78
1:A:2084:UNK:O	1:A:2087:UNK:HG3	1.82	0.78
1:B:930:UNK:O	1:B:930:UNK:HG2	1.83	0.78
1:B:967:VAL:HA	1:B:970:ILE:HB	1.63	0.78
1:B:273:ARG:HB2	1:B:282:VAL:H	1.47	0.78
1:C:2098:UNK:O	1:C:2102:UNK:HG3	1.82	0.78
1:C:930:UNK:HG2	1:C:930:UNK:O	1.83	0.78
1:A:2077:UNK:HG2	1:A:2079:UNK:HG3	1.65	0.78
1:A:2123:UNK:O	1:A:2126:UNK:HG3	1.82	0.78
1:A:971:ALA:O	1:A:974:UNK:HG3	1.84	0.78
1:C:2084:UNK:O	1:C:2087:UNK:HG3	1.82	0.78
1:B:2135:UNK:HG3	1:B:2136:ASP:N	1.99	0.77
1:C:971:ALA:O	1:C:974:UNK:HG3	1.84	0.77
1:B:1220:UNK:CG	1:B:1221:UNK:N	2.46	0.77
1:A:1329:ALA:HB3	1:A:1337:MET:H	1.48	0.77
1:A:2135:UNK:HG3	1:A:2136:ASP:N	1.99	0.77
1:A:930:UNK:O	1:A:930:UNK:HG2	1.83	0.77
1:B:1329:ALA:HB3	1:B:1337:MET:H	1.49	0.77
1:C:2135:UNK:HG3	1:C:2136:ASP:N	1.99	0.77
1:C:2100:UNK:HG2	1:C:2101:UNK:N	2.00	0.77
1:C:1329:ALA:HB3	1:C:1337:MET:H	1.49	0.77
1:C:931:UNK:HG1	1:C:933:UNK:HG2	1.65	0.77
1:B:971:ALA:O	1:B:974:UNK:HG3	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:931:UNK:CG	1:C:933:UNK:HG2	2.15	0.77
1:B:931:UNK:CG	1:B:933:UNK:HG2	2.15	0.77
1:A:257:ARG:HH12	1:C:1695:LEU:HD23	1.51	0.76
1:A:2610:ARG:HH12	1:A:2700:LEU:HD11	1.47	0.76
1:A:931:UNK:CG	1:A:933:UNK:HG2	2.15	0.76
1:B:1695:LEU:HD23	1:C:257:ARG:HH12	1.50	0.76
1:A:1695:LEU:HD23	1:B:257:ARG:HH12	1.51	0.76
1:A:2557:LEU:O	1:A:2613:ARG:N	2.18	0.76
1:A:944:UNK:HG2	1:A:944:UNK:O	1.85	0.76
1:B:931:UNK:HG1	1:B:933:UNK:HG2	1.65	0.76
1:C:934:UNK:O	1:C:937:UNK:CG	2.34	0.76
1:A:1097:VAL:HB	1:A:1146:PRO:HB2	1.68	0.76
1:B:1097:VAL:HB	1:B:1146:PRO:HB2	1.68	0.76
1:A:1220:UNK:CG	1:A:1221:UNK:N	2.46	0.76
1:A:2100:UNK:HG2	1:A:2101:UNK:N	2.00	0.76
1:B:2557:LEU:O	1:B:2613:ARG:N	2.18	0.76
1:A:995:UNK:HB1	1:A:1011:UNK:CG	2.17	0.75
1:B:2124:UNK:O	1:B:2127:UNK:HG3	1.86	0.75
1:C:2452:UNK:HG2	1:C:2453:UNK:N	2.01	0.75
1:A:940:UNK:O	1:A:940:UNK:HG2	1.86	0.75
1:B:2126:UNK:C	1:B:2129:UNK:HG3	2.16	0.75
1:B:2452:UNK:HG2	1:B:2453:UNK:N	2.00	0.75
1:B:2418:GLY:O	1:B:2422:UNK:HG3	1.87	0.75
1:B:944:UNK:O	1:B:944:UNK:HG2	1.85	0.75
1:C:2124:UNK:O	1:C:2127:UNK:HG3	1.87	0.75
1:A:2452:UNK:HG2	1:A:2453:UNK:N	2.00	0.75
1:A:2418:GLY:O	1:A:2422:UNK:HG3	1.87	0.75
1:B:2645:ASP:OD2	1:B:2691:SER:N	2.19	0.75
1:A:1212:UNK:HG2	1:A:1342:ARG:NH2	2.02	0.75
1:B:995:UNK:HB1	1:B:1011:UNK:CG	2.17	0.75
1:B:2088:UNK:O	1:B:2091:UNK:CG	2.35	0.75
1:B:2100:UNK:HG2	1:B:2101:UNK:N	2.00	0.75
1:C:2122:UNK:O	1:C:2125:UNK:HG3	1.87	0.75
1:A:2122:UNK:O	1:A:2125:UNK:HG3	1.87	0.74
1:C:2418:GLY:O	1:C:2422:UNK:HG3	1.87	0.74
1:C:445:VAL:HG13	1:C:475:LEU:HD21	1.69	0.74
1:C:944:UNK:HG2	1:C:944:UNK:O	1.85	0.74
1:C:995:UNK:HB1	1:C:1011:UNK:CG	2.17	0.74
1:C:1097:VAL:HB	1:C:1146:PRO:HB2	1.68	0.74
1:C:2088:UNK:O	1:C:2091:UNK:CG	2.35	0.74
1:B:1212:UNK:HG2	1:B:1342:ARG:NH2	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:445:VAL:HG13	1:B:475:LEU:HD21	1.69	0.74
1:A:2124:UNK:O	1:A:2127:UNK:HG3	1.86	0.74
1:C:33:ALA:HB2	1:C:390:VAL:HA	1.70	0.74
1:A:1556:GLU:OE2	1:A:1560:ARG:NH2	2.20	0.74
1:A:33:ALA:HB2	1:A:390:VAL:HA	1.70	0.74
1:B:940:UNK:HG2	1:B:940:UNK:O	1.86	0.74
1:A:934:UNK:O	1:A:937:UNK:CG	2.34	0.74
1:C:940:UNK:HG2	1:C:940:UNK:O	1.86	0.74
1:A:2087:UNK:HA	1:A:2090:UNK:HG3	1.70	0.74
1:A:2126:UNK:C	1:A:2129:UNK:HG3	2.17	0.74
1:A:2645:ASP:OD2	1:A:2691:SER:N	2.19	0.74
1:A:994:UNK:HG2	1:A:996:UNK:HG3	1.70	0.74
1:B:2122:UNK:O	1:B:2125:UNK:HG3	1.87	0.74
1:C:1212:UNK:CG	1:C:1342:ARG:HE	2.01	0.74
1:C:2557:LEU:O	1:C:2613:ARG:N	2.18	0.74
1:B:1212:UNK:CG	1:B:1342:ARG:HE	2.01	0.74
1:B:33:ALA:HB2	1:B:390:VAL:HA	1.69	0.74
1:C:1212:UNK:HG2	1:C:1342:ARG:NH2	2.02	0.74
1:A:799:PHE:CZ	1:A:2433:UNK:HG3	2.23	0.74
1:A:992:UNK:HG3	1:A:996:UNK:HG3	1.66	0.74
1:B:1001:UNK:O	1:B:1002:UNK:HG3	1.88	0.74
1:B:1556:GLU:OE2	1:B:1560:ARG:NH2	2.20	0.74
1:C:1168:ARG:N	1:C:1194:ILE:O	2.21	0.74
1:C:1556:GLU:OE2	1:C:1560:ARG:NH2	2.20	0.74
1:A:1212:UNK:CG	1:A:1342:ARG:HE	2.01	0.73
1:B:1226:UNK:HG3	1:B:1313:VAL:HG12	1.70	0.73
1:B:2087:UNK:HA	1:B:2090:UNK:HG3	1.70	0.73
1:B:934:UNK:O	1:B:937:UNK:CG	2.34	0.73
1:C:2126:UNK:C	1:C:2129:UNK:HG3	2.17	0.73
1:A:992:UNK:HG2	1:A:994:UNK:CG	2.17	0.73
1:A:1168:ARG:N	1:A:1194:ILE:O	2.21	0.73
1:B:992:UNK:HG2	1:B:994:UNK:CG	2.17	0.73
1:C:994:UNK:HG2	1:C:996:UNK:HG3	1.70	0.73
1:B:3015:ILE:HG12	1:B:3023:ARG:HG3	1.69	0.73
1:C:2096:UNK:O	1:C:2099:UNK:CG	2.37	0.73
1:B:799:PHE:CZ	1:B:2433:UNK:HG3	2.23	0.73
1:C:799:PHE:CZ	1:C:2433:UNK:HG3	2.23	0.73
1:B:994:UNK:HG2	1:B:996:UNK:HG3	1.70	0.73
1:C:3015:ILE:HG12	1:C:3023:ARG:HG3	1.69	0.73
1:A:2883:ALA:O	1:A:2916:ARG:NH1	2.22	0.73
1:B:2053:ALA:O	1:B:2807:ARG:NH2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2096:UNK:O	1:B:2099:UNK:CG	2.36	0.73
1:C:2053:ALA:O	1:C:2807:ARG:NH2	2.21	0.73
1:C:437:PRO:HG3	1:C:876:LEU:HB3	1.70	0.73
1:C:980:UNK:O	1:C:981:UNK:HG3	1.89	0.73
1:B:2093:UNK:HA	1:B:2097:UNK:CG	2.19	0.73
1:C:1001:UNK:O	1:C:1002:UNK:HG3	1.88	0.73
1:C:992:UNK:HG2	1:C:994:UNK:CG	2.17	0.73
1:A:2053:ALA:O	1:A:2807:ARG:NH2	2.21	0.72
1:B:437:PRO:HG3	1:B:876:LEU:HB3	1.70	0.72
1:C:976:UNK:HG3	1:C:993:UNK:CB	2.19	0.72
1:B:1168:ARG:N	1:B:1194:ILE:O	2.21	0.72
1:C:2883:ALA:O	1:C:2916:ARG:NH1	2.22	0.72
1:C:936:UNK:HB1	1:C:941:UNK:HB1	1.71	0.72
1:A:1226:UNK:HG3	1:A:1313:VAL:HG12	1.70	0.72
1:B:1253:ARG:HH11	1:B:1253:ARG:HG3	1.55	0.72
1:C:1253:ARG:HH11	1:C:1253:ARG:HG3	1.54	0.72
1:C:1226:UNK:HG3	1:C:1313:VAL:HG12	1.70	0.72
1:C:1400:PRO:HD2	1:C:1416:VAL:HG22	1.72	0.72
1:A:2093:UNK:HA	1:A:2097:UNK:CG	2.19	0.72
1:B:1400:PRO:HD2	1:B:1416:VAL:HG22	1.72	0.72
1:A:1001:UNK:O	1:A:1002:UNK:HG3	1.88	0.72
1:C:70:SER:OG	1:C:142:ARG:NH2	2.23	0.72
1:C:2645:ASP:OD2	1:C:2691:SER:N	2.19	0.72
1:A:2088:UNK:O	1:A:2091:UNK:CG	2.35	0.72
1:A:95:PRO:HB2	1:C:1237:ARG:NH1	2.05	0.72
1:A:980:UNK:O	1:A:981:UNK:HG3	1.89	0.72
1:B:2121:UNK:O	1:B:2124:UNK:HG3	1.90	0.72
1:B:936:UNK:HB1	1:B:941:UNK:HB1	1.71	0.72
1:A:70:SER:OG	1:A:142:ARG:NH2	2.23	0.72
1:A:2113:UNK:O	1:A:2116:UNK:CG	2.38	0.72
1:A:3015:ILE:HG12	1:A:3023:ARG:HG3	1.69	0.72
1:A:445:VAL:HG13	1:A:475:LEU:HD21	1.69	0.72
1:B:1218:UNK:CG	1:B:1441:GLN:OE1	2.38	0.72
1:C:2093:UNK:HA	1:C:2097:UNK:CG	2.19	0.72
1:A:992:UNK:HG2	1:A:994:UNK:HG3	1.72	0.72
1:B:980:UNK:O	1:B:981:UNK:HG3	1.89	0.72
1:A:1253:ARG:HG3	1:A:1253:ARG:HH11	1.55	0.72
1:A:1400:PRO:HD2	1:A:1416:VAL:HG22	1.72	0.72
1:B:2883:ALA:O	1:B:2916:ARG:NH1	2.22	0.72
1:C:992:UNK:HG2	1:C:994:UNK:HG3	1.72	0.72
1:C:2087:UNK:HA	1:C:2090:UNK:HG3	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2268:GLN:OE1	1:C:2319:ARG:NH1	2.23	0.71
1:A:2121:UNK:O	1:A:2124:UNK:HG3	1.90	0.71
1:B:70:SER:OG	1:B:142:ARG:NH2	2.23	0.71
1:B:2268:GLN:OE1	1:B:2319:ARG:NH1	2.23	0.71
1:A:1237:ARG:NH1	1:B:95:PRO:HB2	2.05	0.71
1:B:1237:ARG:NH1	1:C:95:PRO:HB2	2.05	0.71
1:A:981:UNK:HG1	1:A:987:UNK:CG	2.19	0.71
1:C:1218:UNK:CG	1:C:1441:GLN:OE1	2.38	0.71
1:C:2113:UNK:O	1:C:2116:UNK:CG	2.38	0.71
1:A:982:UNK:HG2	1:A:983:UNK:N	2.05	0.71
1:A:976:UNK:HG3	1:A:993:UNK:CB	2.19	0.71
1:B:2998:GLY:N	1:B:3002:VAL:O	2.23	0.71
1:B:982:UNK:HG2	1:B:983:UNK:N	2.05	0.71
1:B:976:UNK:HG3	1:B:993:UNK:CB	2.19	0.71
1:A:981:UNK:HB2	1:A:984:UNK:CG	2.21	0.71
1:A:936:UNK:HB1	1:A:941:UNK:HB1	1.71	0.71
1:C:1634:ARG:HH11	1:C:1639:ALA:H	1.39	0.71
1:C:2121:UNK:O	1:C:2124:UNK:HG3	1.90	0.71
1:A:2096:UNK:O	1:A:2099:UNK:CG	2.37	0.70
1:C:1507:GLN:O	1:C:1562:ARG:NH1	2.24	0.70
1:C:982:UNK:HG2	1:C:983:UNK:N	2.05	0.70
1:A:437:PRO:HG3	1:A:876:LEU:HB3	1.70	0.70
1:C:2112:UNK:O	1:C:2115:UNK:CG	2.38	0.70
1:A:1218:UNK:CG	1:A:1441:GLN:OE1	2.38	0.70
1:A:2268:GLN:OE1	1:A:2319:ARG:NH1	2.23	0.70
1:A:2558:LEU:HG	1:A:2612:PRO:HA	1.73	0.70
1:A:1507:GLN:O	1:A:1562:ARG:NH1	2.24	0.70
1:B:981:UNK:HB2	1:B:984:UNK:CG	2.21	0.70
1:C:981:UNK:HG1	1:C:987:UNK:CG	2.19	0.70
1:B:137:VAL:HG22	1:B:354:LEU:HD13	1.74	0.70
1:B:1634:ARG:HH11	1:B:1639:ALA:H	1.39	0.70
1:A:2743:ALA:HB1	1:A:2940:VAL:HG23	1.73	0.70
1:A:2998:GLY:N	1:A:3002:VAL:O	2.23	0.70
1:C:981:UNK:HB2	1:C:984:UNK:CG	2.21	0.70
1:C:2558:LEU:HG	1:C:2612:PRO:HA	1.73	0.70
1:B:580:ARG:HD2	1:B:614:GLY:HA3	1.73	0.70
1:C:974:UNK:HG1	1:C:977:UNK:HB1	1.74	0.70
1:B:2112:UNK:O	1:B:2115:UNK:CG	2.38	0.70
1:B:2743:ALA:HB1	1:B:2940:VAL:HG23	1.73	0.70
1:B:992:UNK:HG2	1:B:994:UNK:HG3	1.72	0.70
1:A:1634:ARG:HH11	1:A:1639:ALA:H	1.39	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2112:UNK:O	1:A:2115:UNK:CG	2.38	0.69
1:C:1035:VAL:HG12	1:C:1037:ASP:H	1.57	0.69
1:C:580:ARG:HD2	1:C:614:GLY:HA3	1.72	0.69
1:A:1035:VAL:HG12	1:A:1037:ASP:H	1.57	0.69
1:A:2860:ALA:HB3	1:A:2906:LEU:HD21	1.73	0.69
1:A:580:ARG:HD2	1:A:614:GLY:HA3	1.73	0.69
1:B:2860:ALA:HB3	1:B:2906:LEU:HD21	1.73	0.69
1:C:2860:ALA:HB3	1:C:2906:LEU:HD21	1.73	0.69
1:B:2215:THR:HB	1:B:2229:LYS:HB2	1.74	0.69
1:C:2085:UNK:O	1:C:2088:UNK:CG	2.41	0.69
1:A:1012:UNK:O	1:A:1013:UNK:CG	2.41	0.69
1:B:1177:ARG:HB2	1:B:1184:LEU:HD23	1.74	0.69
1:A:137:VAL:HG22	1:A:354:LEU:HD13	1.74	0.69
1:B:1164:THR:N	1:B:1167:GLY:O	2.25	0.69
1:B:2558:LEU:HG	1:B:2612:PRO:HA	1.74	0.69
1:C:2122:UNK:HA	1:C:2125:UNK:HG3	1.75	0.69
1:A:2215:THR:HB	1:A:2229:LYS:HB2	1.74	0.69
1:B:2122:UNK:HA	1:B:2125:UNK:HG3	1.75	0.69
1:C:2647:VAL:HG22	1:C:2769:ASP:HB2	1.75	0.69
1:B:1046:LEU:HD13	1:B:1129:LEU:HD22	1.75	0.69
1:B:1507:GLN:O	1:B:1562:ARG:NH1	2.24	0.69
1:C:1046:LEU:HD13	1:C:1129:LEU:HD22	1.75	0.69
1:C:2743:ALA:HB1	1:C:2940:VAL:HG23	1.73	0.69
1:C:2998:GLY:N	1:C:3002:VAL:O	2.23	0.69
1:A:1046:LEU:HD13	1:A:1129:LEU:HD22	1.75	0.69
1:C:2445:UNK:HG2	1:C:2985:GLY:O	1.93	0.69
1:C:2112:UNK:C	1:C:2115:UNK:HG3	2.22	0.69
1:B:2085:UNK:O	1:B:2088:UNK:CG	2.40	0.69
1:B:2946:LEU:HD11	1:B:2992:GLY:HA3	1.75	0.69
1:A:2445:UNK:HG2	1:A:2985:GLY:O	1.93	0.68
1:C:992:UNK:HG3	1:C:996:UNK:HG3	1.66	0.68
1:B:2113:UNK:C	1:B:2116:UNK:HG3	2.23	0.68
1:A:1177:ARG:HB2	1:A:1184:LEU:HD23	1.74	0.68
1:A:511:ARG:HD3	1:A:543:GLY:HA3	1.76	0.68
1:B:2113:UNK:O	1:B:2116:UNK:CG	2.37	0.68
1:B:2112:UNK:C	1:B:2115:UNK:HG3	2.22	0.68
1:C:2093:UNK:CG	1:C:2132:UNK:HB1	2.24	0.68
1:B:1035:VAL:HG12	1:B:1037:ASP:H	1.57	0.68
1:B:340:ILE:HD13	1:B:364:THR:HG21	1.75	0.68
1:C:1164:THR:N	1:C:1167:GLY:O	2.25	0.68
1:C:1177:ARG:HB2	1:C:1184:LEU:HD23	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2112:UNK:C	1:A:2115:UNK:HG3	2.22	0.68
1:A:340:ILE:HD13	1:A:364:THR:HG21	1.75	0.68
1:C:2113:UNK:C	1:C:2116:UNK:HG3	2.23	0.68
1:C:511:ARG:HD3	1:C:543:GLY:HA3	1.76	0.68
1:A:2093:UNK:CG	1:A:2132:UNK:HB1	2.24	0.68
1:B:2093:UNK:CG	1:B:2132:UNK:HB1	2.24	0.68
1:B:2647:VAL:HG22	1:B:2769:ASP:HB2	1.75	0.68
1:C:2215:THR:HB	1:C:2229:LYS:HB2	1.74	0.68
1:C:137:VAL:HG22	1:C:354:LEU:HD13	1.74	0.68
1:A:2080:UNK:HB2	1:A:2082:UNK:HG3	1.75	0.68
1:A:2946:LEU:HD11	1:A:2992:GLY:HA3	1.75	0.68
1:C:269:GLU:HB3	1:C:282:VAL:HA	1.75	0.68
1:A:2085:UNK:O	1:A:2088:UNK:CG	2.40	0.68
1:B:2445:UNK:HG2	1:B:2985:GLY:O	1.93	0.68
1:C:1488:VAL:HG21	1:C:1580:PRO:HD2	1.76	0.68
1:C:2097:UNK:C	1:C:2100:UNK:HG3	2.24	0.68
1:A:992:UNK:HG3	1:A:996:UNK:HG2	1.76	0.68
1:A:1724:TYR:OH	1:B:267:GLU:OE2	2.08	0.68
1:B:511:ARG:HD3	1:B:543:GLY:HA3	1.76	0.68
1:C:2080:UNK:HB2	1:C:2082:UNK:HG3	1.75	0.68
1:A:2112:UNK:HG2	1:A:2114:UNK:HG3	1.77	0.67
1:A:2122:UNK:HA	1:A:2125:UNK:HG3	1.75	0.67
1:A:974:UNK:HG1	1:A:977:UNK:HB1	1.74	0.67
1:C:2946:LEU:HD11	1:C:2992:GLY:HA3	1.75	0.67
1:C:3080:ARG:HH11	1:C:3080:ARG:CG	2.07	0.67
1:A:2113:UNK:C	1:A:2116:UNK:HG3	2.23	0.67
1:B:1163:ASP:HB3	1:B:1199:UNK:HG3	1.76	0.67
1:B:974:UNK:HG1	1:B:977:UNK:HB1	1.74	0.67
1:A:1164:THR:N	1:A:1167:GLY:O	2.25	0.67
1:B:2103:UNK:CG	1:B:2104:UNK:N	2.58	0.67
1:C:2112:UNK:HG2	1:C:2114:UNK:HG3	1.77	0.67
1:B:2086:UNK:C	1:B:2089:UNK:HG3	2.25	0.67
1:B:2093:UNK:HG3	1:B:2132:UNK:HB1	1.77	0.67
1:B:3080:ARG:CG	1:B:3080:ARG:HH11	2.07	0.67
1:B:792:ALA:HA	1:B:799:PHE:HE2	1.60	0.67
1:C:2103:UNK:CG	1:C:2104:UNK:N	2.58	0.67
1:C:2093:UNK:HG3	1:C:2132:UNK:HB1	1.77	0.67
1:C:340:ILE:HD13	1:C:364:THR:HG21	1.75	0.67
1:A:2112:UNK:N	1:A:2115:UNK:CG	2.57	0.67
1:A:2126:UNK:O	1:A:2129:UNK:CG	2.43	0.67
1:B:2080:UNK:HB2	1:B:2082:UNK:HG3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:269:GLU:HB3	1:B:282:VAL:HA	1.75	0.67
1:A:2081:UNK:O	1:A:2084:UNK:CG	2.43	0.67
1:A:2097:UNK:C	1:A:2100:UNK:HG3	2.24	0.67
1:B:2080:UNK:O	1:B:2083:UNK:HG3	1.94	0.67
1:B:931:UNK:CG	1:B:933:UNK:HG3	2.25	0.67
1:A:1008:UNK:HG3	1:A:1019:PHE:HB3	1.76	0.67
1:A:2103:UNK:CG	1:A:2104:UNK:N	2.58	0.67
1:B:1488:VAL:HG12	1:B:1490:ARG:NH1	2.10	0.67
1:A:1488:VAL:HG21	1:A:1580:PRO:HD2	1.76	0.66
1:A:2084:UNK:C	1:A:2087:UNK:HG3	2.25	0.66
1:A:2647:VAL:HG22	1:A:2769:ASP:HB2	1.75	0.66
1:A:269:GLU:HB3	1:A:282:VAL:HA	1.75	0.66
1:C:1008:UNK:HG3	1:C:1019:PHE:HB3	1.76	0.66
1:C:970:ILE:HG12	1:C:996:UNK:HG1	1.76	0.66
1:A:2080:UNK:O	1:A:2083:UNK:HG3	1.95	0.66
1:A:2093:UNK:HG3	1:A:2132:UNK:HB1	1.77	0.66
1:A:511:ARG:HB2	1:A:540:ASN:HB2	1.77	0.66
1:A:792:ALA:HA	1:A:799:PHE:HE2	1.60	0.66
1:B:1012:UNK:O	1:B:1013:UNK:CG	2.41	0.66
1:B:1168:ARG:HB2	1:B:1197:UNK:HB2	1.77	0.66
1:B:2084:UNK:C	1:B:2087:UNK:HG3	2.25	0.66
1:C:1163:ASP:HB3	1:C:1199:UNK:HG3	1.76	0.66
1:C:981:UNK:O	1:C:981:UNK:HG2	1.95	0.66
1:C:992:UNK:HG3	1:C:996:UNK:HG2	1.76	0.66
1:B:2097:UNK:C	1:B:2100:UNK:HG3	2.24	0.66
1:B:992:UNK:HG3	1:B:996:UNK:HG2	1.76	0.66
1:C:1358:GLN:HG2	1:C:1423:THR:HG23	1.78	0.66
1:B:2081:UNK:O	1:B:2084:UNK:CG	2.43	0.66
1:B:2126:UNK:O	1:B:2129:UNK:CG	2.43	0.66
1:C:2080:UNK:O	1:C:2083:UNK:HG3	1.94	0.66
1:C:511:ARG:HB2	1:C:540:ASN:HB2	1.78	0.66
1:A:1412:HIS:HD2	1:A:1413:PRO:HD2	1.61	0.66
1:B:511:ARG:HB2	1:B:540:ASN:HB2	1.77	0.66
1:B:981:UNK:HG1	1:B:987:UNK:CG	2.19	0.66
1:C:2126:UNK:O	1:C:2129:UNK:CG	2.43	0.66
1:C:683:GLY:HA2	1:C:700:ASN:HB2	1.78	0.66
1:A:1163:ASP:HB3	1:A:1199:UNK:HG3	1.76	0.66
1:B:1167:GLY:HA3	1:B:1195:ARG:HA	1.77	0.66
1:B:1412:HIS:HD2	1:B:1413:PRO:HD2	1.61	0.66
1:C:1168:ARG:HB2	1:C:1197:UNK:HB2	1.77	0.66
1:A:2591:ARG:HH12	1:C:2012:GLY:C	1.99	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1008:UNK:HG3	1:B:1019:PHE:HB3	1.76	0.66
1:C:792:ALA:HA	1:C:799:PHE:HE2	1.60	0.66
1:A:1084:THR:HG21	1:A:1274:ALA:HA	1.78	0.66
1:A:1358:GLN:HG2	1:A:1423:THR:HG23	1.78	0.66
1:B:35:VAL:HG11	1:B:147:LEU:HB3	1.78	0.66
1:B:2112:UNK:HG2	1:B:2114:UNK:HG3	1.77	0.66
1:C:1132:LEU:HD11	1:C:1192:PHE:HB3	1.78	0.66
1:C:931:UNK:CG	1:C:933:UNK:HG3	2.24	0.66
1:A:931:UNK:CG	1:A:933:UNK:HG3	2.25	0.66
1:C:1084:THR:HG21	1:C:1274:ALA:HA	1.78	0.66
1:C:2081:UNK:O	1:C:2084:UNK:CG	2.43	0.66
1:C:2112:UNK:N	1:C:2115:UNK:CG	2.57	0.66
1:B:2012:GLY:C	1:C:2591:ARG:HH12	1.99	0.66
1:A:2086:UNK:C	1:A:2089:UNK:HG3	2.25	0.66
1:B:1358:GLN:HG2	1:B:1423:THR:HG23	1.78	0.66
1:B:2112:UNK:N	1:B:2115:UNK:CG	2.57	0.66
1:B:666:VAL:HG21	1:B:904:VAL:HB	1.78	0.66
1:C:997:UNK:O	1:C:1009:UNK:N	2.29	0.66
1:A:1167:GLY:HA3	1:A:1195:ARG:HA	1.78	0.65
1:A:2112:UNK:N	1:A:2115:UNK:HG1	2.11	0.65
1:A:2679:ALA:HB3	1:A:2762:VAL:HG12	1.78	0.65
1:A:997:UNK:O	1:A:1009:UNK:N	2.29	0.65
1:B:1488:VAL:HG21	1:B:1580:PRO:HD2	1.77	0.65
1:B:1534:ASN:HB2	1:B:1543:ALA:HB3	1.78	0.65
1:B:2123:UNK:C	1:B:2126:UNK:HG3	2.26	0.65
1:B:970:ILE:HG12	1:B:996:UNK:HG1	1.76	0.65
1:A:1488:VAL:HG12	1:A:1490:ARG:NH1	2.10	0.65
1:A:970:ILE:HG12	1:A:996:UNK:HG1	1.76	0.65
1:B:2706:PRO:HG2	1:B:2709:ILE:HG23	1.79	0.65
1:C:2123:UNK:C	1:C:2126:UNK:HG3	2.26	0.65
1:A:2123:UNK:C	1:A:2126:UNK:HG3	2.26	0.65
1:A:2012:GLY:C	1:B:2591:ARG:HH12	1.99	0.65
1:B:683:GLY:HA2	1:B:700:ASN:HB2	1.78	0.65
1:C:1534:ASN:HB2	1:C:1543:ALA:HB3	1.79	0.65
1:C:2084:UNK:C	1:C:2087:UNK:HG3	2.25	0.65
1:B:1417:LEU:O	1:B:1423:THR:OG1	2.14	0.65
1:C:203:ASP:OD1	1:C:204:ARG:N	2.29	0.65
1:C:2876:LEU:HD11	1:C:2886:ILE:HD11	1.79	0.65
1:C:924:LEU:O	1:C:929:UNK:N	2.30	0.65
1:A:981:UNK:HG2	1:A:981:UNK:O	1.95	0.65
1:B:2112:UNK:N	1:B:2115:UNK:HG1	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2679:ALA:HB3	1:B:2762:VAL:HG12	1.78	0.65
1:C:1488:VAL:HG12	1:C:1490:ARG:NH1	2.10	0.65
1:C:2086:UNK:C	1:C:2089:UNK:HG3	2.25	0.65
1:A:35:VAL:HG11	1:A:147:LEU:HB3	1.78	0.65
1:A:450:ASN:HA	1:A:483:ARG:HH11	1.62	0.65
1:B:3080:ARG:NH1	1:B:3080:ARG:HG3	2.09	0.65
1:C:1012:UNK:O	1:C:1013:UNK:CG	2.41	0.65
1:A:2876:LEU:HD11	1:A:2886:ILE:HD11	1.79	0.65
1:B:1132:LEU:HD11	1:B:1192:PHE:HB3	1.78	0.65
1:C:1412:HIS:HD2	1:C:1413:PRO:HD2	1.61	0.65
1:C:1417:LEU:O	1:C:1423:THR:OG1	2.14	0.65
1:C:666:VAL:HG21	1:C:904:VAL:HB	1.78	0.65
1:A:1168:ARG:HB2	1:A:1197:UNK:HB2	1.77	0.65
1:A:666:VAL:HG21	1:A:904:VAL:HB	1.78	0.65
1:B:1084:THR:HG21	1:B:1274:ALA:HA	1.78	0.65
1:B:2876:LEU:HD11	1:B:2886:ILE:HD11	1.79	0.65
1:B:500:GLN:O	1:B:504:LYS:N	2.24	0.65
1:A:1536:ASN:HA	1:A:1679:TRP:HB3	1.79	0.65
1:A:3080:ARG:HH11	1:A:3080:ARG:CG	2.07	0.65
1:A:943:UNK:O	1:A:944:UNK:CG	2.44	0.65
1:A:999:UNK:CG	1:A:1007:UNK:CG	2.75	0.65
1:B:203:ASP:OD1	1:B:204:ARG:N	2.29	0.65
1:B:997:UNK:O	1:B:1009:UNK:N	2.29	0.65
1:C:999:UNK:CG	1:C:1007:UNK:CG	2.75	0.65
1:C:1167:GLY:HA3	1:C:1195:ARG:HA	1.78	0.65
1:A:2652:ILE:HG12	1:A:2722:VAL:HG22	1.79	0.65
1:B:943:UNK:O	1:B:944:UNK:CG	2.44	0.65
1:C:2652:ILE:HG12	1:C:2722:VAL:HG22	1.79	0.65
1:C:2706:PRO:HG2	1:C:2709:ILE:HG23	1.79	0.65
1:C:35:VAL:HG11	1:C:147:LEU:HB3	1.77	0.64
1:C:1536:ASN:HA	1:C:1679:TRP:HB3	1.78	0.64
1:A:56:LEU:HD22	1:A:119:LEU:HD13	1.79	0.64
1:A:1417:LEU:O	1:A:1423:THR:OG1	2.14	0.64
1:A:408:VAL:HG13	1:A:943:UNK:HG1	1.80	0.64
1:B:238:SER:HG	1:B:249:THR:HG1	1.42	0.64
1:B:981:UNK:O	1:B:981:UNK:HG2	1.95	0.64
1:A:2120:UNK:O	1:A:2123:UNK:HG3	1.97	0.64
1:A:2706:PRO:HG2	1:A:2709:ILE:HG23	1.78	0.64
1:A:924:LEU:O	1:A:929:UNK:N	2.30	0.64
1:A:1534:ASN:HB2	1:A:1543:ALA:HB3	1.78	0.64
1:B:924:LEU:O	1:B:929:UNK:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:450:ASN:HA	1:C:483:ARG:HH11	1.62	0.64
1:C:943:UNK:O	1:C:944:UNK:CG	2.44	0.64
1:A:34:LEU:O	1:A:38:LEU:N	2.25	0.64
1:A:643:ILE:HD12	1:A:915:PHE:HZ	1.62	0.64
1:B:999:UNK:CG	1:B:1007:UNK:CG	2.75	0.64
1:B:2120:UNK:O	1:B:2123:UNK:HG3	1.97	0.64
1:B:2428:UNK:O	1:B:2428:UNK:HG2	1.98	0.64
1:B:42:GLU:HB3	1:B:349:ARG:HG3	1.79	0.64
1:C:2449:UNK:O	1:C:2449:UNK:HG2	1.98	0.64
1:C:2679:ALA:HB3	1:C:2762:VAL:HG12	1.78	0.64
1:C:408:VAL:HG13	1:C:943:UNK:HG1	1.79	0.64
1:A:1132:LEU:HD11	1:A:1192:PHE:HB3	1.78	0.64
1:A:1214:UNK:HB1	1:A:1320:VAL:HB	1.80	0.64
1:A:683:GLY:HA2	1:A:700:ASN:HB2	1.78	0.64
1:A:792:ALA:O	1:A:2433:UNK:HG2	1.96	0.64
1:B:2080:UNK:HG2	1:B:2083:UNK:HG3	1.79	0.64
1:C:2120:UNK:O	1:C:2123:UNK:HG3	1.97	0.64
1:B:56:LEU:HD22	1:B:119:LEU:HD13	1.79	0.64
1:A:203:ASP:OD1	1:A:204:ARG:N	2.30	0.64
1:A:2252:VAL:HA	1:A:2255:ARG:HE	1.62	0.64
1:B:1536:ASN:HA	1:B:1679:TRP:HB3	1.78	0.64
1:B:2252:VAL:HA	1:B:2255:ARG:HE	1.62	0.64
1:C:803:GLU:OE1	1:C:2431:UNK:HG3	1.98	0.64
1:B:2449:UNK:HG2	1:B:2449:UNK:O	1.98	0.64
1:A:42:GLU:HB3	1:A:349:ARG:HG3	1.79	0.63
1:C:2080:UNK:HG2	1:C:2083:UNK:HG3	1.79	0.63
1:C:42:GLU:HB3	1:C:349:ARG:HG3	1.79	0.63
1:A:974:UNK:CG	1:A:977:UNK:HB1	2.29	0.63
1:C:643:ILE:HD12	1:C:915:PHE:HZ	1.62	0.63
1:A:2428:UNK:O	1:A:2428:UNK:HG2	1.98	0.63
1:A:892:ILE:HG22	2:A:4000:FMN:HM82	1.80	0.63
1:B:2176:LEU:HG	1:B:2180:LYS:HE3	1.80	0.63
1:B:450:ASN:HA	1:B:483:ARG:HH11	1.62	0.63
1:B:643:ILE:HD12	1:B:915:PHE:HZ	1.62	0.63
1:B:974:UNK:CG	1:B:977:UNK:HB1	2.29	0.63
1:C:360:LEU:HD12	1:C:363:LEU:HD23	1.80	0.63
1:A:2080:UNK:HG2	1:A:2083:UNK:HG3	1.79	0.63
1:A:2422:UNK:HG2	1:A:2422:UNK:O	1.98	0.63
1:C:1214:UNK:HB1	1:C:1320:VAL:HB	1.80	0.63
1:C:2252:VAL:HA	1:C:2255:ARG:HE	1.62	0.63
1:C:2428:UNK:HG2	1:C:2428:UNK:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1072:TRP:NE1	1:A:1077:VAL:HG22	2.14	0.63
1:A:2092:UNK:HA	1:A:2189:PHE:HB2	1.81	0.63
1:B:2297:ARG:H	1:B:2297:ARG:HD3	1.64	0.63
1:C:1072:TRP:NE1	1:C:1077:VAL:HG22	2.14	0.63
1:C:2094:UNK:CG	1:C:2096:UNK:CG	2.75	0.63
1:A:2135:UNK:HG3	1:A:2136:ASP:H	1.64	0.63
1:B:1072:TRP:NE1	1:B:1077:VAL:HG22	2.14	0.63
1:B:1212:UNK:HG2	1:B:1212:UNK:O	1.99	0.63
1:B:2125:UNK:HA	1:B:2128:UNK:HG3	1.81	0.63
1:B:2652:ILE:HG12	1:B:2722:VAL:HG22	1.79	0.63
1:B:408:VAL:HG13	1:B:943:UNK:HG1	1.79	0.63
1:B:585:HIS:CD2	1:B:586:SER:H	2.17	0.63
1:A:2948:GLN:HG2	1:A:2951:ARG:HH21	1.64	0.63
1:B:1215:UNK:HG2	1:B:1216:UNK:N	2.14	0.63
1:C:1212:UNK:O	1:C:1212:UNK:HG2	1.99	0.63
1:C:2092:UNK:O	1:C:2092:UNK:HG2	1.99	0.63
1:A:1212:UNK:HG2	1:A:1212:UNK:O	1.99	0.63
1:A:2117:UNK:O	1:A:2121:UNK:HG3	1.98	0.63
1:A:2047:THR:OG1	1:A:2205:ASP:OD2	2.17	0.63
1:A:980:UNK:C	1:A:981:UNK:HG3	2.29	0.63
1:B:2117:UNK:O	1:B:2121:UNK:HG3	1.98	0.63
1:B:360:LEU:HD12	1:B:363:LEU:HD23	1.80	0.63
1:A:2173:ASP:OD2	1:A:2799:LYS:NZ	2.32	0.63
1:A:2297:ARG:HD3	1:A:2297:ARG:H	1.64	0.63
1:A:803:GLU:OE1	1:A:2431:UNK:HG3	1.98	0.63
1:A:360:LEU:HD12	1:A:363:LEU:HD23	1.80	0.63
1:B:1212:UNK:HG2	1:B:1342:ARG:HE	1.64	0.63
1:B:2047:THR:OG1	1:B:2205:ASP:OD2	2.17	0.63
1:B:803:GLU:OE1	1:B:2431:UNK:HG3	1.98	0.63
1:B:750:LEU:HD12	1:B:827:LEU:HD11	1.81	0.63
1:A:1215:UNK:HG2	1:A:1216:UNK:N	2.14	0.62
1:A:1315:ARG:HH21	1:A:1323:GLU:HG2	1.64	0.62
1:A:1412:HIS:ND1	1:A:1415:GLY:O	2.26	0.62
1:A:2125:UNK:HA	1:A:2128:UNK:HG3	1.81	0.62
1:A:750:LEU:HD12	1:A:827:LEU:HD11	1.81	0.62
1:C:1126:ILE:HG22	1:C:1196:UNK:HG1	1.81	0.62
1:C:1412:HIS:ND1	1:C:1415:GLY:O	2.26	0.62
1:C:2422:UNK:HG2	1:C:2422:UNK:O	1.98	0.62
1:C:974:UNK:CG	1:C:977:UNK:HB1	2.29	0.62
1:A:664:LEU:HD13	1:A:701:ALA:HB1	1.81	0.62
1:B:1126:ILE:HG22	1:B:1196:UNK:HG1	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2422:UNK:HG2	1:B:2422:UNK:O	1.98	0.62
1:B:34:LEU:O	1:B:38:LEU:N	2.25	0.62
1:B:980:UNK:C	1:B:981:UNK:HG3	2.29	0.62
1:C:1376:VAL:HA	1:C:1470:LEU:HD13	1.81	0.62
1:C:2117:UNK:O	1:C:2121:UNK:HG3	1.98	0.62
1:A:2092:UNK:O	1:A:2092:UNK:HG2	1.99	0.62
1:B:1002:UNK:O	1:B:1003:UNK:CG	2.47	0.62
1:B:1214:UNK:HB1	1:B:1320:VAL:HB	1.80	0.62
1:B:664:LEU:HD13	1:B:701:ALA:HB1	1.81	0.62
1:C:56:LEU:HD22	1:C:119:LEU:HD13	1.79	0.62
1:C:2176:LEU:HG	1:C:2180:LYS:HE3	1.80	0.62
1:A:2449:UNK:O	1:A:2449:UNK:HG2	1.98	0.62
1:B:892:ILE:HG22	2:B:4000:FMN:HM82	1.80	0.62
1:B:1376:VAL:HA	1:B:1470:LEU:HD13	1.81	0.62
1:C:1095:LEU:HD12	1:C:1096:THR:H	1.64	0.62
1:C:1212:UNK:HG2	1:C:1342:ARG:HE	1.64	0.62
1:C:585:HIS:CD2	1:C:586:SER:H	2.17	0.62
1:A:1376:VAL:HA	1:A:1470:LEU:HD13	1.81	0.62
1:A:500:GLN:O	1:A:504:LYS:N	2.24	0.62
1:C:992:UNK:CG	1:C:994:UNK:HG2	2.29	0.62
1:A:1622:PRO:HD3	1:A:1685:LEU:HD11	1.81	0.62
1:A:1702:GLU:OE2	1:A:1711:VAL:HG13	1.99	0.62
1:A:585:HIS:CD2	1:A:586:SER:H	2.17	0.62
1:B:1702:GLU:OE2	1:B:1711:VAL:HG13	1.99	0.62
1:B:2173:ASP:OD2	1:B:2799:LYS:NZ	2.32	0.62
1:B:2765:GLY:HA2	1:B:2940:VAL:HG21	1.82	0.62
1:C:792:ALA:O	1:C:2433:UNK:HG2	1.96	0.62
1:C:2765:GLY:HA2	1:C:2940:VAL:HG21	1.82	0.62
1:A:992:UNK:CG	1:A:994:UNK:HG2	2.29	0.62
1:B:1353:PRO:HG3	1:B:1702:GLU:OE2	2.00	0.62
1:B:2237:LEU:HB2	1:B:2287:LEU:HD11	1.82	0.62
1:B:792:ALA:O	1:B:2433:UNK:HG2	1.96	0.62
1:B:415:VAL:HG22	1:B:937:UNK:HG1	1.81	0.62
1:B:975:UNK:HG3	1:B:993:UNK:CB	2.29	0.62
1:C:1215:UNK:HG2	1:C:1216:UNK:N	2.14	0.62
1:B:1725:SER:HB3	1:C:260:LEU:HD13	1.82	0.62
1:A:1002:UNK:O	1:A:1003:UNK:CG	2.47	0.62
1:A:1095:LEU:HD12	1:A:1096:THR:H	1.64	0.62
1:B:2092:UNK:HA	1:B:2189:PHE:HB2	1.81	0.62
1:C:164:ALA:HA	1:C:178:LEU:HD13	1.82	0.62
1:C:2096:UNK:HG2	1:C:2097:UNK:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:980:UNK:C	1:C:981:UNK:HG3	2.29	0.62
1:A:1002:UNK:HG2	1:A:1002:UNK:O	1.99	0.62
1:A:238:SER:OG	1:A:249:THR:OG1	2.16	0.62
1:B:2096:UNK:HG2	1:B:2097:UNK:N	2.14	0.62
1:B:992:UNK:HG3	1:B:996:UNK:HG3	1.66	0.62
1:C:415:VAL:HG22	1:C:937:UNK:HG1	1.81	0.62
1:B:2948:GLN:HG2	1:B:2951:ARG:HH21	1.64	0.61
1:C:1431:ALA:HB3	1:C:1459:THR:HG21	1.82	0.61
1:C:1702:GLU:OE2	1:C:1711:VAL:HG13	1.99	0.61
1:C:203:ASP:O	1:C:205:PRO:HD3	2.00	0.61
1:C:2092:UNK:HA	1:C:2189:PHE:HB2	1.81	0.61
1:C:2047:THR:OG1	1:C:2205:ASP:OD2	2.17	0.61
1:C:2297:ARG:HD3	1:C:2297:ARG:H	1.64	0.61
1:C:2948:GLN:HG2	1:C:2951:ARG:HH21	1.64	0.61
1:C:664:LEU:HD13	1:C:701:ALA:HB1	1.81	0.61
1:C:975:UNK:HG3	1:C:993:UNK:CB	2.29	0.61
1:A:2122:UNK:C	1:A:2125:UNK:HG3	2.30	0.61
1:A:3080:ARG:HG3	1:A:3080:ARG:NH1	2.09	0.61
1:A:511:ARG:HH11	1:A:543:GLY:HA3	1.65	0.61
1:A:793:ARG:HD3	1:A:2435:UNK:CG	2.27	0.61
1:B:575:HIS:HD2	1:B:644:LEU:HD22	1.66	0.61
1:B:409:LYS:HD2	1:B:933:UNK:HA	1.82	0.61
1:B:939:UNK:O	1:B:940:UNK:CG	2.47	0.61
1:B:971:ALA:O	1:B:974:UNK:CG	2.48	0.61
1:C:1622:PRO:HD3	1:C:1685:LEU:HD11	1.81	0.61
1:C:2125:UNK:HA	1:C:2128:UNK:HG3	1.81	0.61
1:C:575:HIS:HD2	1:C:644:LEU:HD22	1.66	0.61
1:A:939:UNK:O	1:A:940:UNK:CG	2.47	0.61
1:B:2092:UNK:HG2	1:B:2092:UNK:O	1.99	0.61
1:B:511:ARG:HH11	1:B:543:GLY:HA3	1.66	0.61
1:B:984:UNK:CG	1:B:987:UNK:CG	2.79	0.61
1:C:2103:UNK:HG1	1:C:2919:GLY:O	2.00	0.61
1:C:34:LEU:H	1:C:393:VAL:HG21	1.65	0.61
1:C:970:ILE:CG1	1:C:996:UNK:HG1	2.31	0.61
1:A:415:VAL:CG2	1:A:937:UNK:HG1	2.31	0.61
1:A:976:UNK:O	1:A:976:UNK:HG2	2.01	0.61
1:A:1725:SER:HB3	1:B:260:LEU:HD13	1.82	0.61
1:B:415:VAL:CG2	1:B:937:UNK:HG1	2.31	0.61
1:C:1002:UNK:O	1:C:1003:UNK:CG	2.47	0.61
1:C:2112:UNK:N	1:C:2115:UNK:HG1	2.11	0.61
1:C:2434:UNK:CG	1:C:2523:GLU:O	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:892:ILE:HG22	2:C:4000:FMN:HM82	1.80	0.61
1:A:164:ALA:HA	1:A:178:LEU:HD13	1.82	0.61
1:B:106:ALA:HB1	1:B:112:PRO:HB2	1.82	0.61
1:B:1622:PRO:HD3	1:B:1685:LEU:HD11	1.81	0.61
1:B:34:LEU:H	1:B:393:VAL:HG21	1.65	0.61
1:B:929:UNK:O	1:B:930:UNK:CG	2.45	0.61
1:A:1431:ALA:HB3	1:A:1459:THR:HG21	1.82	0.61
1:A:2176:LEU:HG	1:A:2180:LYS:HE3	1.80	0.61
1:A:2469:LEU:HD11	1:A:2653:VAL:HB	1.82	0.61
1:A:260:LEU:HD13	1:C:1725:SER:HB3	1.82	0.61
1:A:409:LYS:HD2	1:A:933:UNK:HA	1.82	0.61
1:A:415:VAL:HG22	1:A:937:UNK:HG1	1.81	0.61
1:A:575:HIS:HD2	1:A:644:LEU:HD22	1.66	0.61
1:A:984:UNK:HG2	1:A:987:UNK:CG	2.31	0.61
1:B:2469:LEU:HD11	1:B:2653:VAL:HB	1.82	0.61
1:C:1227:UNK:O	1:C:1227:UNK:HG2	2.00	0.61
1:C:409:LYS:HD2	1:C:933:UNK:HA	1.82	0.61
1:C:971:ALA:O	1:C:974:UNK:CG	2.48	0.61
1:C:984:UNK:HG2	1:C:987:UNK:CG	2.31	0.61
1:A:1126:ILE:HG22	1:A:1196:UNK:HG1	1.81	0.61
1:A:1353:PRO:HG3	1:A:1702:GLU:OE2	2.00	0.61
1:A:929:UNK:O	1:A:930:UNK:CG	2.45	0.61
1:B:2122:UNK:C	1:B:2125:UNK:HG3	2.30	0.61
1:B:2135:UNK:HG3	1:B:2136:ASP:H	1.64	0.61
1:C:2469:LEU:HD11	1:C:2653:VAL:HB	1.82	0.61
1:C:3058:ARG:HB2	1:C:3089:LEU:HB2	1.82	0.61
1:C:34:LEU:O	1:C:38:LEU:N	2.25	0.61
1:C:511:ARG:HH11	1:C:543:GLY:HA3	1.66	0.61
1:A:106:ALA:HB1	1:A:112:PRO:HB2	1.82	0.61
1:A:1212:UNK:HG2	1:A:1342:ARG:HE	1.64	0.61
1:A:2103:UNK:HG1	1:A:2919:GLY:O	2.00	0.61
1:A:580:ARG:HG2	1:A:590:LEU:HD21	1.83	0.61
1:B:1007:UNK:HB2	1:B:1018:ARG:HE	1.66	0.61
1:B:1227:UNK:O	1:B:1227:UNK:HG2	2.00	0.61
1:B:126:VAL:HG12	1:B:182:ALA:HB1	1.83	0.61
1:B:1431:ALA:HB3	1:B:1459:THR:HG21	1.82	0.61
1:B:70:SER:HG	1:B:142:ARG:HH22	1.49	0.61
1:C:1353:PRO:HG3	1:C:1702:GLU:OE2	2.00	0.61
1:C:415:VAL:CG2	1:C:937:UNK:HG1	2.31	0.61
1:C:750:LEU:HD12	1:C:827:LEU:HD11	1.81	0.61
1:B:2334:HIS:HD2	1:B:2391:LYS:HG3	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2434:UNK:CG	1:B:2523:GLU:O	2.48	0.61
1:B:979:UNK:HG2	1:B:979:UNK:O	2.01	0.61
1:B:984:UNK:HG2	1:B:987:UNK:CG	2.31	0.61
1:C:1007:UNK:HG2	1:C:1007:UNK:O	2.01	0.61
1:C:488:ASN:HA	1:C:521:VAL:HB	1.83	0.61
1:A:1007:UNK:O	1:A:1007:UNK:HG2	2.01	0.61
1:A:1227:UNK:HG2	1:A:1227:UNK:O	2.00	0.61
1:A:680:ALA:HA	1:A:685:ALA:HB2	1.83	0.61
1:A:984:UNK:CG	1:A:987:UNK:CG	2.79	0.61
1:B:3058:ARG:HB2	1:B:3089:LEU:HB2	1.82	0.61
1:B:970:ILE:CG1	1:B:996:UNK:HG1	2.31	0.61
1:C:1315:ARG:HH21	1:C:1323:GLU:HG2	1.64	0.61
1:A:2765:GLY:HA2	1:A:2940:VAL:HG21	1.82	0.60
1:A:34:LEU:H	1:A:393:VAL:HG21	1.65	0.60
1:A:970:ILE:CG1	1:A:996:UNK:HG1	2.31	0.60
1:A:980:UNK:HB2	1:A:989:UNK:HB2	1.83	0.60
1:B:1095:LEU:HD12	1:B:1096:THR:H	1.64	0.60
1:B:438:THR:HA	1:B:880:HIS:HE1	1.66	0.60
1:C:2173:ASP:OD2	1:C:2799:LYS:NZ	2.32	0.60
1:C:984:UNK:CG	1:C:987:UNK:CG	2.79	0.60
1:A:1007:UNK:HB2	1:A:1018:ARG:HE	1.66	0.60
1:A:2096:UNK:HG2	1:A:2097:UNK:N	2.14	0.60
1:A:257:ARG:HH12	1:C:1695:LEU:CD2	2.13	0.60
1:A:2647:VAL:HA	1:A:2650:TRP:HD1	1.66	0.60
1:B:1315:ARG:HH21	1:B:1323:GLU:HG2	1.64	0.60
1:B:488:ASN:HA	1:B:521:VAL:HB	1.83	0.60
1:C:1532:ILE:HA	1:C:1544:ILE:HG12	1.83	0.60
1:C:2237:LEU:HB2	1:C:2287:LEU:HD11	1.82	0.60
1:C:238:SER:OG	1:C:249:THR:OG1	2.15	0.60
1:C:580:ARG:HG2	1:C:590:LEU:HD21	1.83	0.60
1:C:980:UNK:HB2	1:C:989:UNK:HB2	1.83	0.60
1:A:1989:PHE:HD1	1:A:1992:LYS:HZ3	1.49	0.60
1:A:203:ASP:O	1:A:205:PRO:HD3	2.01	0.60
1:A:2112:UNK:CG	1:A:2114:UNK:HG3	2.31	0.60
1:A:2237:LEU:HB2	1:A:2287:LEU:HD11	1.82	0.60
1:A:2372:MET:HB3	1:A:2394:LEU:HD22	1.83	0.60
1:A:2434:UNK:CG	1:A:2523:GLU:O	2.48	0.60
1:B:1098:VAL:HG12	1:B:1100:ASP:H	1.66	0.60
1:C:2800:PHE:HE1	1:C:2812:LEU:HD22	1.67	0.60
1:A:1537:LEU:HB2	1:A:1541:GLN:H	1.67	0.60
1:A:2121:UNK:C	1:A:2124:UNK:HG3	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:438:THR:HA	1:A:880:HIS:HE1	1.66	0.60
1:A:971:ALA:O	1:A:974:UNK:CG	2.48	0.60
1:A:979:UNK:O	1:A:979:UNK:HG2	2.01	0.60
1:B:1002:UNK:O	1:B:1002:UNK:HG2	2.00	0.60
1:B:164:ALA:HA	1:B:178:LEU:HD13	1.82	0.60
1:B:203:ASP:O	1:B:205:PRO:HD3	2.01	0.60
1:B:2121:UNK:C	1:B:2124:UNK:HG3	2.31	0.60
1:B:680:ALA:HA	1:B:685:ALA:HB2	1.83	0.60
1:C:1537:LEU:HB2	1:C:1541:GLN:H	1.67	0.60
1:C:2112:UNK:CG	1:C:2114:UNK:HG3	2.31	0.60
1:C:2686:MET:HE1	1:C:2935:LYS:HG3	1.83	0.60
1:A:2121:UNK:O	1:A:2124:UNK:CG	2.49	0.60
1:B:1695:LEU:CD2	1:C:257:ARG:HH12	2.13	0.60
1:B:2103:UNK:HG1	1:B:2919:GLY:O	2.00	0.60
1:B:2212:TRP:HA	1:B:2229:LYS:HD3	1.83	0.60
1:C:126:VAL:HG12	1:C:182:ALA:HB1	1.83	0.60
1:C:2212:TRP:HA	1:C:2229:LYS:HD3	1.83	0.60
1:C:2962:ASP:N	1:C:2962:ASP:OD1	2.34	0.60
1:C:929:UNK:O	1:C:930:UNK:CG	2.45	0.60
1:A:2651:ASN:HD22	1:A:2718:VAL:HG12	1.67	0.60
1:A:3058:ARG:HB2	1:A:3089:LEU:HB2	1.82	0.60
1:A:488:ASN:HA	1:A:521:VAL:HB	1.83	0.60
1:B:1012:UNK:C	1:B:1013:UNK:HG3	2.32	0.60
1:A:1309:VAL:HG22	1:A:1331:ILE:HG12	1.84	0.60
1:A:1695:LEU:CD2	1:B:257:ARG:HH12	2.13	0.60
1:A:2334:HIS:HD2	1:A:2391:LYS:HG3	1.66	0.60
1:B:2651:ASN:HD22	1:B:2718:VAL:HG12	1.67	0.60
1:B:670:GLY:O	1:B:682:ASN:ND2	2.35	0.60
1:B:687:GLY:O	1:B:695:ILE:N	2.34	0.60
1:B:688:ARG:O	1:B:872:ARG:NE	2.34	0.60
1:C:2135:UNK:HG3	1:C:2136:ASP:H	1.64	0.60
1:C:976:UNK:HG2	1:C:976:UNK:O	2.01	0.60
1:A:670:GLY:O	1:A:682:ASN:ND2	2.35	0.60
1:A:931:UNK:O	1:A:934:UNK:HG3	2.02	0.60
1:A:975:UNK:HG3	1:A:993:UNK:CB	2.29	0.60
1:B:1435:VAL:HG11	1:B:1463:CYS:HB3	1.84	0.60
1:B:2112:UNK:CG	1:B:2114:UNK:HG3	2.31	0.60
1:B:2647:VAL:HA	1:B:2650:TRP:HD1	1.66	0.60
1:B:580:ARG:HG2	1:B:590:LEU:HD21	1.83	0.60
1:C:1002:UNK:O	1:C:1002:UNK:HG2	1.99	0.60
1:C:1098:VAL:HG12	1:C:1100:ASP:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2081:UNK:O	1:C:2085:UNK:HG2	2.02	0.60
1:C:2651:ASN:HD22	1:C:2718:VAL:HG12	1.67	0.60
1:C:2461:VAL:HG11	1:C:2751:VAL:HG22	1.84	0.60
1:A:1532:ILE:HA	1:A:1544:ILE:HG12	1.83	0.60
1:A:126:VAL:HG12	1:A:182:ALA:HB1	1.83	0.60
1:A:2081:UNK:O	1:A:2085:UNK:HG2	2.02	0.60
1:B:1537:LEU:HB2	1:B:1541:GLN:H	1.67	0.60
1:B:931:UNK:O	1:B:934:UNK:HG3	2.02	0.60
1:C:1007:UNK:HB2	1:C:1018:ARG:HE	1.66	0.60
1:C:2121:UNK:O	1:C:2124:UNK:CG	2.49	0.60
1:C:2122:UNK:C	1:C:2125:UNK:HG3	2.30	0.60
1:C:2334:HIS:HD2	1:C:2391:LYS:HG3	1.66	0.60
1:C:670:GLY:O	1:C:682:ASN:ND2	2.35	0.60
1:C:688:ARG:O	1:C:872:ARG:NE	2.34	0.60
1:C:939:UNK:O	1:C:940:UNK:CG	2.47	0.60
1:A:1012:UNK:C	1:A:1013:UNK:HG3	2.32	0.59
1:B:1532:ILE:HA	1:B:1544:ILE:HG12	1.83	0.59
1:C:1435:VAL:HG11	1:C:1463:CYS:HB3	1.84	0.59
1:C:2121:UNK:C	1:C:2124:UNK:HG3	2.31	0.59
1:C:410:LEU:HB3	1:C:1025:VAL:HG21	1.84	0.59
1:A:410:LEU:HB3	1:A:1025:VAL:HG21	1.84	0.59
1:B:1656:LYS:HG2	1:B:1660:LEU:HG	1.85	0.59
1:B:1989:PHE:HD1	1:B:1992:LYS:HZ3	1.50	0.59
1:B:2081:UNK:O	1:B:2085:UNK:HG2	2.02	0.59
1:B:2121:UNK:O	1:B:2124:UNK:CG	2.49	0.59
1:B:2372:MET:HB3	1:B:2394:LEU:HD22	1.83	0.59
1:C:2056:PHE:HZ	1:C:2180:LYS:HE2	1.67	0.59
1:C:2429:UNK:O	1:C:2429:UNK:HG2	2.02	0.59
1:C:680:ALA:HA	1:C:685:ALA:HB2	1.83	0.59
1:A:2431:UNK:HG2	1:A:2431:UNK:O	2.01	0.59
1:B:795:HIS:HB3	1:B:799:PHE:CZ	2.37	0.59
1:C:106:ALA:HB1	1:C:112:PRO:HB2	1.82	0.59
1:C:2431:UNK:O	1:C:2431:UNK:HG2	2.01	0.59
1:C:2712:GLU:HA	1:C:2717:VAL:HG11	1.83	0.59
1:A:1098:VAL:HG12	1:A:1100:ASP:H	1.66	0.59
1:A:2800:PHE:HE1	1:A:2812:LEU:HD22	1.67	0.59
1:A:2820:ILE:HD13	1:A:2943:MET:HG2	1.84	0.59
1:A:795:HIS:HB3	1:A:799:PHE:CZ	2.37	0.59
1:B:1002:UNK:C	1:B:1003:UNK:HG3	2.33	0.59
1:A:2056:PHE:HZ	1:A:2180:LYS:HE2	1.67	0.59
1:A:688:ARG:O	1:A:872:ARG:NE	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2667:THR:HG21	1:B:3058:ARG:NH1	2.17	0.59
1:C:1336:VAL:HG12	1:C:1337:MET:HG3	1.85	0.59
1:C:2372:MET:HB3	1:C:2394:LEU:HD22	1.83	0.59
1:A:2212:TRP:HA	1:A:2229:LYS:HD3	1.83	0.59
1:B:793:ARG:HD3	1:B:2435:UNK:CG	2.27	0.59
1:B:976:UNK:O	1:B:976:UNK:HG2	2.01	0.59
1:B:980:UNK:HB2	1:B:989:UNK:HB2	1.83	0.59
1:C:2889:ILE:HG12	1:C:2922:LEU:HB3	1.84	0.59
1:C:931:UNK:O	1:C:934:UNK:HG3	2.02	0.59
1:B:2431:UNK:HG2	1:B:2431:UNK:O	2.01	0.59
1:A:1656:LYS:HG2	1:A:1660:LEU:HG	1.85	0.59
1:A:2667:THR:HG21	1:A:3058:ARG:NH1	2.17	0.59
1:A:2693:GLN:O	1:A:2697:HIS:ND1	2.33	0.59
1:A:2712:GLU:HA	1:A:2717:VAL:HG11	1.83	0.59
1:A:2686:MET:HE1	1:A:2935:LYS:HG3	1.83	0.59
1:B:1007:UNK:HG2	1:B:1007:UNK:O	2.01	0.59
1:B:992:UNK:CG	1:B:994:UNK:HG2	2.30	0.59
1:C:1701:VAL:HG22	1:C:1732:LEU:HB2	1.84	0.59
1:A:2094:UNK:CG	1:A:2096:UNK:CG	2.75	0.59
1:B:1336:VAL:HG12	1:B:1337:MET:HG3	1.85	0.59
1:B:2056:PHE:HZ	1:B:2180:LYS:HE2	1.67	0.59
1:B:2403:ILE:HG23	1:B:2408:LEU:HD12	1.85	0.59
1:B:2461:VAL:HG11	1:B:2751:VAL:HG22	1.84	0.59
1:C:1616:PRO:HG3	1:C:1668:LEU:HD13	1.85	0.59
1:C:2135:UNK:CG	1:C:2136:ASP:N	2.66	0.59
1:C:2647:VAL:HA	1:C:2650:TRP:HD1	1.66	0.59
1:A:150:THR:O	1:A:152:PRO:HD3	2.03	0.59
1:A:943:UNK:C	1:A:944:UNK:HG3	2.32	0.59
1:B:2800:PHE:HE1	1:B:2812:LEU:HD22	1.67	0.59
1:B:934:UNK:C	1:B:937:UNK:HG3	2.32	0.59
1:C:1309:VAL:HG22	1:C:1331:ILE:HG12	1.84	0.59
1:B:2686:MET:HE1	1:B:2935:LYS:HG3	1.83	0.58
1:B:462:GLN:HG3	1:B:468:PHE:HD1	1.68	0.58
1:C:2124:UNK:O	1:C:2127:UNK:CG	2.51	0.58
1:C:836:VAL:HG12	1:C:837:VAL:H	1.67	0.58
1:C:979:UNK:O	1:C:979:UNK:HG2	2.01	0.58
1:A:1001:UNK:C	1:A:1002:UNK:HG3	2.33	0.58
1:A:1336:VAL:HG12	1:A:1337:MET:HG3	1.85	0.58
1:A:1616:PRO:HG3	1:A:1668:LEU:HD13	1.85	0.58
1:C:1012:UNK:C	1:C:1013:UNK:HG3	2.32	0.58
1:C:438:THR:HA	1:C:880:HIS:HE1	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:943:UNK:C	1:C:944:UNK:HG3	2.32	0.58
1:A:2429:UNK:HG2	1:A:2429:UNK:O	2.02	0.58
1:A:2889:ILE:HG12	1:A:2922:LEU:HB3	1.84	0.58
1:B:1001:UNK:C	1:B:1002:UNK:HG3	2.33	0.58
1:B:1008:UNK:CG	1:B:1019:PHE:HB3	2.33	0.58
1:B:1327:VAL:HB	1:B:1339:ALA:HB3	1.86	0.58
1:B:1701:VAL:HG22	1:B:1732:LEU:HB2	1.84	0.58
1:C:1001:UNK:C	1:C:1002:UNK:HG3	2.33	0.58
1:C:150:THR:O	1:C:152:PRO:HD3	2.03	0.58
1:C:621:SER:OG	1:C:643:ILE:HD13	2.04	0.58
1:A:1008:UNK:O	1:A:1008:UNK:HG2	2.03	0.58
1:A:735:LYS:HD2	1:A:860:VAL:HG23	1.86	0.58
1:B:1253:ARG:NH1	1:B:1253:ARG:HG3	2.18	0.58
1:B:2712:GLU:HA	1:B:2717:VAL:HG11	1.84	0.58
1:C:795:HIS:HB3	1:C:799:PHE:CZ	2.37	0.58
1:C:990:UNK:CG	1:C:998:UNK:HB2	2.34	0.58
1:A:1008:UNK:CG	1:A:1019:PHE:HB3	2.33	0.58
1:A:1327:VAL:HB	1:A:1339:ALA:HB3	1.86	0.58
1:A:2461:VAL:HG11	1:A:2751:VAL:HG22	1.84	0.58
1:C:1253:ARG:HG3	1:C:1253:ARG:NH1	2.18	0.58
1:C:2667:THR:HG21	1:C:3058:ARG:NH1	2.17	0.58
1:A:1701:VAL:HG22	1:A:1732:LEU:HB2	1.84	0.58
1:A:2124:UNK:C	1:A:2127:UNK:HG3	2.34	0.58
1:B:836:VAL:HG12	1:B:837:VAL:H	1.67	0.58
1:C:2521:VAL:HG13	1:C:2529:ARG:HH11	1.68	0.58
1:A:117:LYS:NZ	1:C:1087:PHE:HB3	2.18	0.58
1:A:836:VAL:HG12	1:A:837:VAL:H	1.67	0.58
1:B:1008:UNK:O	1:B:1008:UNK:HG2	2.03	0.58
1:B:1616:PRO:HG3	1:B:1668:LEU:HD13	1.85	0.58
1:B:2487:LEU:HD11	1:B:2495:LEU:HD12	1.86	0.58
1:B:2787:THR:HA	1:B:2790:MET:HG3	1.86	0.58
1:B:2876:LEU:HB3	1:B:2881:VAL:HG12	1.86	0.58
1:C:1989:PHE:HD1	1:C:1992:LYS:HZ3	1.51	0.58
1:C:687:GLY:O	1:C:695:ILE:N	2.34	0.58
1:A:2101:UNK:O	1:A:2105:UNK:HG3	2.04	0.58
1:A:441:ASP:OD2	1:A:443:LYS:HB3	2.04	0.58
1:A:511:ARG:HD2	1:A:517:ILE:O	2.04	0.58
1:A:784:GLU:OE2	1:A:787:LEU:HD12	2.04	0.58
1:B:410:LEU:HB3	1:B:1025:VAL:HG21	1.84	0.58
1:B:970:ILE:CD1	1:B:996:UNK:HG1	2.34	0.58
1:C:1656:LYS:HG2	1:C:1660:LEU:HG	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:970:ILE:CD1	1:C:996:UNK:HG1	2.34	0.58
1:A:2487:LEU:HD11	1:A:2495:LEU:HD12	1.86	0.58
1:B:2339:TRP:HB2	1:B:2398:LEU:HD11	1.86	0.58
1:B:2820:ILE:HD13	1:B:2943:MET:HG2	1.84	0.58
1:B:776:ASP:O	1:B:779:TRP:N	2.31	0.58
1:B:990:UNK:CG	1:B:998:UNK:HB2	2.34	0.58
1:A:2521:VAL:HG13	1:A:2529:ARG:HH11	1.68	0.58
1:A:2554:ALA:HB1	1:A:2614:LYS:NZ	2.19	0.58
1:A:2787:THR:HA	1:A:2790:MET:HG3	1.86	0.58
1:B:1309:VAL:HG22	1:B:1331:ILE:HG12	1.84	0.58
1:B:784:GLU:OE2	1:B:787:LEU:HD12	2.03	0.58
1:B:943:UNK:C	1:B:944:UNK:HG3	2.32	0.58
1:A:1091:LEU:HD13	1:A:1281:ALA:HB3	1.86	0.57
1:A:1435:VAL:HG11	1:A:1463:CYS:HB3	1.84	0.57
1:A:462:GLN:HG3	1:A:468:PHE:HD1	1.68	0.57
1:B:1412:HIS:ND1	1:B:1415:GLY:O	2.26	0.57
1:C:1008:UNK:HG2	1:C:1008:UNK:O	2.03	0.57
1:C:2403:ILE:HG23	1:C:2408:LEU:HD12	1.85	0.57
1:C:441:ASP:OD2	1:C:443:LYS:HB3	2.04	0.57
1:A:1002:UNK:C	1:A:1003:UNK:HG3	2.33	0.57
1:A:476:GLU:HA	1:A:479:LEU:HB2	1.86	0.57
1:A:924:LEU:HA	1:A:928:ALA:HB3	1.87	0.57
1:A:999:UNK:CG	1:A:1007:UNK:HG2	2.34	0.57
1:B:1009:UNK:HG2	1:B:1009:UNK:O	2.04	0.57
1:A:1087:PHE:HB3	1:B:117:LYS:NZ	2.18	0.57
1:B:1095:LEU:HD22	1:B:1289:PRO:HA	1.85	0.57
1:B:1226:UNK:HG3	1:B:1313:VAL:CG1	2.35	0.57
1:B:2124:UNK:C	1:B:2127:UNK:HG3	2.34	0.57
1:C:1002:UNK:C	1:C:1003:UNK:HG3	2.33	0.57
1:C:2101:UNK:O	1:C:2105:UNK:HG3	2.04	0.57
1:C:2487:LEU:HD11	1:C:2495:LEU:HD12	1.86	0.57
1:A:1095:LEU:HD22	1:A:1289:PRO:HA	1.85	0.57
1:A:2339:TRP:HB2	1:A:2398:LEU:HD11	1.86	0.57
1:B:2101:UNK:O	1:B:2105:UNK:HG3	2.04	0.57
1:B:621:SER:OG	1:B:643:ILE:HD13	2.04	0.57
1:C:2339:TRP:HB2	1:C:2398:LEU:HD11	1.86	0.57
1:C:2554:ALA:HB1	1:C:2614:LYS:NZ	2.19	0.57
1:C:934:UNK:C	1:C:937:UNK:HG3	2.32	0.57
1:A:1405:ALA:HB3	1:A:1408:VAL:HG23	1.86	0.57
1:A:621:SER:OG	1:A:643:ILE:HD13	2.04	0.57
1:A:939:UNK:C	1:A:940:UNK:HG3	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:990:UNK:CG	1:A:998:UNK:HB2	2.34	0.57
1:B:1087:PHE:HB3	1:C:117:LYS:NZ	2.19	0.57
1:C:1017:ILE:HG23	1:C:1045:VAL:HG21	1.87	0.57
1:C:129:VAL:HG13	1:C:356:PRO:HG2	1.85	0.57
1:C:511:ARG:HD2	1:C:517:ILE:O	2.04	0.57
1:A:2124:UNK:O	1:A:2127:UNK:CG	2.51	0.57
1:A:970:ILE:CD1	1:A:996:UNK:HG1	2.34	0.57
1:B:129:VAL:HG13	1:B:356:PRO:HG2	1.85	0.57
1:B:2521:VAL:HG13	1:B:2529:ARG:HH11	1.68	0.57
1:B:2889:ILE:HG12	1:B:2922:LEU:HB3	1.84	0.57
1:B:2983:LEU:HB3	1:B:2987:PHE:O	2.05	0.57
1:B:924:LEU:HA	1:B:928:ALA:HB3	1.86	0.57
1:C:1445:VAL:HG23	1:C:1448:ALA:HB2	1.87	0.57
1:C:2086:UNK:HA	1:C:2089:UNK:HG3	1.86	0.57
1:C:2124:UNK:C	1:C:2127:UNK:HG3	2.34	0.57
1:C:2820:ILE:HD13	1:C:2943:MET:HG2	1.84	0.57
1:C:2846:ALA:HA	1:C:3001:HIS:O	2.05	0.57
1:C:476:GLU:HA	1:C:479:LEU:HB2	1.86	0.57
1:C:490:LEU:HD23	1:C:523:SER:HB2	1.87	0.57
1:C:924:LEU:HA	1:C:928:ALA:HB3	1.87	0.57
1:C:999:UNK:CG	1:C:1007:UNK:HG2	2.34	0.57
1:A:1009:UNK:HG2	1:A:1009:UNK:O	2.03	0.57
1:A:2709:ILE:O	1:A:2713:VAL:HG13	2.05	0.57
1:B:2429:UNK:O	1:B:2429:UNK:HG2	2.02	0.57
1:B:975:UNK:HG2	1:B:976:UNK:N	2.20	0.57
1:C:1008:UNK:CG	1:C:1019:PHE:HB3	2.33	0.57
1:C:1009:UNK:O	1:C:1009:UNK:HG2	2.04	0.57
1:C:1095:LEU:HD22	1:C:1289:PRO:HA	1.85	0.57
1:C:2622:GLY:HA2	1:C:2812:LEU:HD11	1.87	0.57
1:C:939:UNK:C	1:C:940:UNK:HG3	2.33	0.57
1:A:2403:ILE:HG23	1:A:2408:LEU:HD12	1.85	0.57
1:A:2846:ALA:HA	1:A:3001:HIS:O	2.05	0.57
1:B:1445:VAL:HG23	1:B:1448:ALA:HB2	1.87	0.57
1:B:2846:ALA:HA	1:B:3001:HIS:O	2.05	0.57
1:C:2876:LEU:HB3	1:C:2881:VAL:HG12	1.86	0.57
1:C:784:GLU:OE2	1:C:787:LEU:HD12	2.03	0.57
1:A:1537:LEU:HD11	1:A:1714:LEU:HB3	1.87	0.57
1:A:2876:LEU:HB3	1:A:2881:VAL:HG12	1.86	0.57
1:A:980:UNK:O	1:A:981:UNK:CG	2.53	0.57
1:B:2084:UNK:O	1:B:2087:UNK:CG	2.52	0.57
1:B:441:ASP:OD2	1:B:443:LYS:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:735:LYS:HD2	1:B:860:VAL:HG23	1.85	0.57
1:B:978:UNK:HB2	1:B:991:UNK:HG2	1.87	0.57
1:C:1091:LEU:HD13	1:C:1281:ALA:HB3	1.86	0.57
1:C:127:PRO:HG3	1:C:183:GLN:HA	1.86	0.57
1:C:929:UNK:C	1:C:930:UNK:HG3	2.35	0.57
1:B:127:PRO:HG3	1:B:183:GLN:HA	1.86	0.57
1:B:2100:UNK:CG	1:B:2101:UNK:N	2.68	0.57
1:B:511:ARG:NH1	1:B:543:GLY:HA3	2.19	0.57
1:C:462:GLN:HG3	1:C:468:PHE:HD1	1.68	0.57
1:B:2124:UNK:O	1:B:2127:UNK:CG	2.51	0.57
1:B:868:ARG:HB3	1:B:872:ARG:HH11	1.70	0.57
1:C:2521:VAL:HG13	1:C:2529:ARG:NH1	2.20	0.57
1:C:2787:THR:HA	1:C:2790:MET:HG3	1.86	0.57
1:C:980:UNK:O	1:C:981:UNK:CG	2.53	0.57
1:A:127:PRO:HG3	1:A:183:GLN:HA	1.85	0.56
1:A:129:VAL:HG13	1:A:356:PRO:HG2	1.85	0.56
1:A:511:ARG:NH1	1:A:543:GLY:HA3	2.19	0.56
1:A:868:ARG:HB3	1:A:872:ARG:HH11	1.70	0.56
1:B:1126:ILE:O	1:B:1197:UNK:CG	2.53	0.56
1:B:2961:LEU:HD23	1:B:2978:ARG:HB3	1.87	0.56
1:C:868:ARG:HB3	1:C:872:ARG:HH11	1.70	0.56
1:A:490:LEU:HD23	1:A:523:SER:HB2	1.87	0.56
1:C:793:ARG:HD3	1:C:2435:UNK:CG	2.27	0.56
1:C:735:LYS:HD2	1:C:860:VAL:HG23	1.85	0.56
1:A:2086:UNK:HA	1:A:2089:UNK:HG3	1.86	0.56
1:A:745:THR:OG1	1:A:834:GLU:O	2.19	0.56
1:B:1637:VAL:HG21	1:B:1671:TRP:CG	2.40	0.56
1:B:511:ARG:HD2	1:B:517:ILE:O	2.04	0.56
1:B:999:UNK:CG	1:B:1007:UNK:HG2	2.34	0.56
1:C:1420:THR:OG1	1:C:1485:HIS:NE2	2.38	0.56
1:C:1537:LEU:HD11	1:C:1714:LEU:HB3	1.86	0.56
1:A:37:ARG:O	1:A:41:GLY:N	2.38	0.56
1:A:976:UNK:CG	1:A:993:UNK:HB1	2.29	0.56
1:B:1001:UNK:O	1:B:1002:UNK:CG	2.53	0.56
1:B:150:THR:O	1:B:152:PRO:HD3	2.03	0.56
1:B:2521:VAL:HG13	1:B:2529:ARG:NH1	2.20	0.56
1:B:2554:ALA:HB1	1:B:2614:LYS:NZ	2.19	0.56
1:B:2709:ILE:O	1:B:2713:VAL:HG13	2.05	0.56
1:B:2481:MET:O	1:B:2959:ARG:NH2	2.39	0.56
1:B:476:GLU:HA	1:B:479:LEU:HB2	1.86	0.56
1:B:939:UNK:C	1:B:940:UNK:HG3	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:177:GLU:HB3	1:C:317:LEU:HD13	1.87	0.56
1:A:1017:ILE:HG23	1:A:1045:VAL:HG21	1.87	0.56
1:A:1253:ARG:NH1	1:A:1253:ARG:HG3	2.18	0.56
1:A:2521:VAL:HG13	1:A:2529:ARG:NH1	2.20	0.56
1:A:2881:VAL:HG13	1:A:2885:ASP:HB2	1.88	0.56
1:A:776:ASP:O	1:A:779:TRP:N	2.31	0.56
1:A:978:UNK:HB2	1:A:991:UNK:HG2	1.87	0.56
1:B:1091:LEU:HD13	1:B:1281:ALA:HB3	1.86	0.56
1:B:177:GLU:HB3	1:B:317:LEU:HD13	1.87	0.56
1:C:1126:ILE:O	1:C:1197:UNK:CG	2.53	0.56
1:C:2957:PRO:HD3	1:C:2980:PRO:HB3	1.88	0.56
1:C:511:ARG:NH1	1:C:543:GLY:HA3	2.19	0.56
1:A:975:UNK:HG2	1:A:976:UNK:N	2.20	0.56
1:A:990:UNK:HG2	1:A:990:UNK:O	2.05	0.56
1:B:2622:GLY:HA2	1:B:2812:LEU:HD11	1.87	0.56
1:C:2693:GLN:O	1:C:2697:HIS:ND1	2.33	0.56
1:A:2983:LEU:HB3	1:A:2987:PHE:O	2.05	0.56
1:B:1511:ASP:H	1:B:1514:ASP:HB2	1.71	0.56
1:B:2962:ASP:OD1	1:B:2962:ASP:N	2.34	0.56
1:C:1327:VAL:HB	1:C:1339:ALA:HB3	1.86	0.56
1:C:1511:ASP:H	1:C:1514:ASP:HB2	1.71	0.56
1:C:475:LEU:O	1:C:479:LEU:N	2.37	0.56
1:A:1637:VAL:HG21	1:A:1671:TRP:CG	2.40	0.56
1:B:2478:ARG:NH1	1:B:2482:GLU:OE1	2.39	0.56
1:C:1226:UNK:HG3	1:C:1313:VAL:CG1	2.35	0.56
1:C:1637:VAL:HG21	1:C:1671:TRP:CG	2.40	0.56
1:C:2478:ARG:NH1	1:C:2482:GLU:OE1	2.39	0.56
1:A:1126:ILE:O	1:A:1197:UNK:CG	2.53	0.56
1:A:1226:UNK:HG3	1:A:1313:VAL:CG1	2.35	0.56
1:A:1511:ASP:H	1:A:1514:ASP:HB2	1.71	0.56
1:A:2478:ARG:NH1	1:A:2482:GLU:OE1	2.39	0.56
1:A:2961:LEU:HD23	1:A:2978:ARG:HB3	1.87	0.56
1:B:1537:LEU:HD11	1:B:1714:LEU:HB3	1.87	0.56
1:B:2086:UNK:HA	1:B:2089:UNK:HG3	1.86	0.56
1:B:2094:UNK:CG	1:B:2096:UNK:CG	2.75	0.56
1:C:2084:UNK:O	1:C:2087:UNK:CG	2.52	0.56
1:C:2709:ILE:O	1:C:2713:VAL:HG13	2.05	0.56
1:C:2961:LEU:HD23	1:C:2978:ARG:HB3	1.87	0.56
1:C:2983:LEU:HB3	1:C:2987:PHE:O	2.05	0.56
1:C:978:UNK:HB2	1:C:991:UNK:HG2	1.87	0.56
1:C:992:UNK:CG	1:C:996:UNK:HG2	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2102:UNK:C	1:A:2105:UNK:HG3	2.36	0.56
1:A:687:GLY:O	1:A:695:ILE:N	2.34	0.56
1:B:1017:ILE:HG23	1:B:1045:VAL:HG21	1.87	0.56
1:B:1618:LEU:HG	1:B:1619:VAL:HG23	1.88	0.56
1:B:490:LEU:HD23	1:B:523:SER:HB2	1.87	0.56
1:C:1618:LEU:HG	1:C:1619:VAL:HG23	1.88	0.56
1:C:2102:UNK:C	1:C:2105:UNK:HG3	2.36	0.56
1:A:1445:VAL:HG23	1:A:1448:ALA:HB2	1.87	0.56
1:A:2084:UNK:O	1:A:2087:UNK:CG	2.52	0.56
1:B:1420:THR:OG1	1:B:1485:HIS:NE2	2.38	0.56
1:B:2303:ASP:N	1:B:2303:ASP:OD1	2.39	0.56
1:B:990:UNK:HG2	1:B:990:UNK:O	2.05	0.56
1:C:1405:ALA:HB3	1:C:1408:VAL:HG23	1.86	0.56
1:C:37:ARG:O	1:C:41:GLY:N	2.39	0.56
1:C:975:UNK:HG2	1:C:976:UNK:N	2.20	0.56
1:C:990:UNK:HG2	1:C:990:UNK:O	2.05	0.56
1:A:934:UNK:C	1:A:937:UNK:HG3	2.32	0.55
1:B:2743:ALA:HB3	1:B:2939:ALA:HB3	1.88	0.55
1:B:540:ASN:HD21	1:B:544:ILE:HG13	1.71	0.55
1:B:929:UNK:C	1:B:930:UNK:HG3	2.35	0.55
1:A:2743:ALA:HB3	1:A:2939:ALA:HB3	1.88	0.55
1:A:2481:MET:O	1:A:2959:ARG:NH2	2.39	0.55
1:B:1405:ALA:HB3	1:B:1408:VAL:HG23	1.87	0.55
1:A:1618:LEU:HG	1:A:1619:VAL:HG23	1.88	0.55
1:A:929:UNK:C	1:A:930:UNK:HG3	2.35	0.55
1:B:2102:UNK:C	1:B:2105:UNK:HG3	2.36	0.55
1:B:475:LEU:O	1:B:479:LEU:N	2.37	0.55
1:B:737:TYR:HE1	1:B:862:VAL:HA	1.72	0.55
1:B:931:UNK:HG2	1:B:934:UNK:N	2.21	0.55
1:A:2135:UNK:CG	1:A:2136:ASP:N	2.66	0.55
1:A:2622:GLY:HA2	1:A:2812:LEU:HD11	1.87	0.55
1:B:975:UNK:CG	1:B:976:UNK:N	2.70	0.55
1:B:980:UNK:O	1:B:981:UNK:CG	2.53	0.55
1:C:1496:SER:HB3	1:C:1578:ASP:HB3	1.89	0.55
1:C:2442:UNK:HG2	1:C:2442:UNK:O	2.07	0.55
1:C:2481:MET:O	1:C:2959:ARG:NH2	2.39	0.55
1:A:540:ASN:HD21	1:A:544:ILE:HG13	1.71	0.55
1:B:1010:UNK:O	1:B:1017:ILE:N	2.29	0.55
1:B:551:PRO:HG3	1:B:560:VAL:HG21	1.89	0.55
1:C:1010:UNK:O	1:C:1017:ILE:N	2.29	0.55
1:C:2881:VAL:HG13	1:C:2885:ASP:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:177:GLU:HB3	1:A:317:LEU:HD13	1.87	0.55
1:B:2704:ALA:O	1:B:2705:LYS:HD3	2.07	0.55
1:A:1690:GLU:O	1:A:1694:GLY:N	2.40	0.55
1:A:1734:SER:HA	1:A:1741:LEU:HD11	1.89	0.55
1:A:931:UNK:HG2	1:A:933:UNK:CG	2.37	0.55
1:B:2458:ALA:HA	1:B:2824:ARG:HD2	1.89	0.55
1:C:2810:GLY:HA2	1:C:2896:THR:HA	1.89	0.55
1:A:737:TYR:HE1	1:A:862:VAL:HA	1.72	0.55
1:A:931:UNK:HG2	1:A:934:UNK:N	2.21	0.55
1:B:1496:SER:HB3	1:B:1578:ASP:HB3	1.88	0.55
1:B:2135:UNK:CG	1:B:2136:ASP:N	2.66	0.55
1:B:238:SER:OG	1:B:249:THR:OG1	2.15	0.55
1:B:2957:PRO:HD3	1:B:2980:PRO:HB3	1.88	0.55
1:C:1690:GLU:O	1:C:1694:GLY:N	2.40	0.55
1:C:737:TYR:HE1	1:C:862:VAL:HA	1.72	0.55
1:A:2087:UNK:CA	1:A:2090:UNK:HG3	2.37	0.55
1:A:2458:ALA:HA	1:A:2824:ARG:HD2	1.89	0.55
1:A:2704:ALA:O	1:A:2705:LYS:HD3	2.07	0.55
1:B:2418:GLY:O	1:B:2422:UNK:N	2.40	0.55
1:C:1001:UNK:O	1:C:1002:UNK:CG	2.53	0.55
1:C:144:GLY:O	1:C:148:THR:N	2.34	0.55
1:B:1724:TYR:OH	1:C:267:GLU:OE2	2.07	0.55
1:C:994:UNK:CG	1:C:996:UNK:HG3	2.37	0.55
1:A:1001:UNK:O	1:A:1002:UNK:CG	2.53	0.55
1:A:2418:GLY:O	1:A:2422:UNK:N	2.40	0.54
1:B:1163:ASP:CB	1:B:1199:UNK:HG3	2.37	0.54
1:B:1690:GLU:O	1:B:1694:GLY:N	2.40	0.54
1:B:2442:UNK:HG2	1:B:2442:UNK:O	2.07	0.54
1:B:763:SER:O	1:B:766:ASP:N	2.41	0.54
1:A:2303:ASP:N	1:A:2303:ASP:OD1	2.39	0.54
1:A:2810:GLY:HA2	1:A:2896:THR:HA	1.89	0.54
1:A:33:ALA:O	1:A:37:ARG:N	2.35	0.54
1:A:975:UNK:CG	1:A:976:UNK:N	2.70	0.54
1:B:2810:GLY:HA2	1:B:2896:THR:HA	1.89	0.54
1:C:540:ASN:HD21	1:C:544:ILE:HG13	1.71	0.54
1:C:975:UNK:CG	1:C:976:UNK:N	2.70	0.54
1:C:978:UNK:HB2	1:C:991:UNK:CG	2.37	0.54
1:A:2957:PRO:HD3	1:A:2980:PRO:HB3	1.88	0.54
1:C:2704:ALA:O	1:C:2705:LYS:HD3	2.07	0.54
1:C:931:UNK:HG2	1:C:934:UNK:N	2.21	0.54
1:A:1010:UNK:O	1:A:1017:ILE:N	2.29	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2417:SER:O	1:A:2421:ASP:N	2.40	0.54
1:B:2115:UNK:HA	1:B:2118:UNK:HG3	1.90	0.54
1:B:2881:VAL:HG13	1:B:2885:ASP:HB2	1.88	0.54
1:C:2743:ALA:HB3	1:C:2939:ALA:HB3	1.88	0.54
1:C:763:SER:O	1:C:766:ASP:N	2.41	0.54
1:C:931:UNK:HG2	1:C:933:UNK:CG	2.37	0.54
1:A:3018:LEU:O	1:A:3022:GLU:HB2	2.08	0.54
1:A:668:THR:OG1	1:A:698:ILE:HD11	2.08	0.54
1:B:2693:GLN:O	1:B:2697:HIS:ND1	2.33	0.54
1:C:2103:UNK:O	1:C:2106:UNK:HG3	2.08	0.54
1:C:2458:ALA:HA	1:C:2824:ARG:HD2	1.89	0.54
1:C:2860:ALA:HB1	1:C:3005:LEU:HD13	1.90	0.54
1:A:1496:SER:HB3	1:A:1578:ASP:HB3	1.89	0.54
1:B:580:ARG:HH11	1:B:614:GLY:HA3	1.72	0.54
1:C:273:ARG:HD2	1:C:282:VAL:HG12	1.90	0.54
1:C:580:ARG:HH11	1:C:614:GLY:HA3	1.73	0.54
1:C:716:ALA:HA	1:C:719:VAL:HG23	1.90	0.54
1:A:2122:UNK:CA	1:A:2125:UNK:HG3	2.38	0.54
1:A:2246:ALA:C	1:A:2255:ARG:HH12	2.11	0.54
1:A:456:GLU:HG2	1:A:486:GLN:HE21	1.73	0.54
1:A:763:SER:O	1:A:766:ASP:N	2.41	0.54
1:B:2768:ASP:OD2	1:B:2936:GLY:N	2.41	0.54
1:B:37:ARG:O	1:B:41:GLY:N	2.39	0.54
1:C:1003:UNK:CG	1:C:1004:UNK:N	2.53	0.54
1:C:1163:ASP:CB	1:C:1199:UNK:HG3	2.38	0.54
1:C:1357:ILE:HG13	1:C:1710:THR:HG21	1.89	0.54
1:C:2100:UNK:CG	1:C:2101:UNK:N	2.68	0.54
1:C:2115:UNK:HA	1:C:2118:UNK:HG3	1.90	0.54
1:C:2127:UNK:O	1:C:2130:UNK:CG	2.52	0.54
1:C:2418:GLY:O	1:C:2422:UNK:N	2.40	0.54
1:A:1357:ILE:HG13	1:A:1710:THR:HG21	1.89	0.54
1:A:2112:UNK:N	1:A:2115:UNK:HG3	2.23	0.54
1:A:2492:VAL:HG21	1:A:2527:VAL:HG22	1.90	0.54
1:A:978:UNK:HB2	1:A:991:UNK:CG	2.37	0.54
1:B:273:ARG:HD2	1:B:282:VAL:HG12	1.90	0.54
1:B:668:THR:OG1	1:B:698:ILE:HD11	2.08	0.54
1:B:978:UNK:HB2	1:B:991:UNK:CG	2.37	0.54
1:C:456:GLU:HG2	1:C:486:GLN:HE21	1.73	0.54
1:B:2104:UNK:HA	1:B:2107:UNK:HG3	1.90	0.54
1:C:3018:LEU:O	1:C:3022:GLU:HB2	2.08	0.54
1:C:33:ALA:O	1:C:37:ARG:N	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2012:GLY:C	1:B:2591:ARG:NH1	2.61	0.54
1:A:980:UNK:N	1:A:989:UNK:O	2.41	0.54
1:A:994:UNK:CG	1:A:996:UNK:HG3	2.37	0.54
1:B:1734:SER:HA	1:B:1741:LEU:HD11	1.89	0.54
1:B:2100:UNK:C	1:B:2103:UNK:HG3	2.31	0.54
1:B:2860:ALA:HB1	1:B:3005:LEU:HD13	1.90	0.54
1:B:624:TYR:HA	1:B:629:TRP:CD1	2.43	0.54
1:C:2087:UNK:CA	1:C:2090:UNK:HG3	2.37	0.54
1:C:624:TYR:HA	1:C:629:TRP:CD1	2.43	0.54
1:A:2100:UNK:CG	1:A:2101:UNK:N	2.68	0.53
1:A:2442:UNK:HG2	1:A:2442:UNK:O	2.07	0.53
1:A:267:GLU:OE2	1:C:1724:TYR:OH	2.07	0.53
1:A:368:ILE:HG21	1:A:373:ILE:HG13	1.90	0.53
1:A:475:LEU:O	1:A:479:LEU:N	2.37	0.53
1:B:1089:ALA:O	1:B:1091:LEU:N	2.41	0.53
1:B:2417:SER:O	1:B:2421:ASP:N	2.40	0.53
1:B:456:GLU:HG2	1:B:486:GLN:HE21	1.73	0.53
1:C:1323:GLU:N	1:C:1343:LEU:O	2.41	0.53
1:C:2551:PRO:O	1:C:2617:LEU:HB2	2.08	0.53
1:C:2653:VAL:HA	1:C:3051:MET:HE3	1.90	0.53
1:A:1089:ALA:O	1:A:1091:LEU:N	2.42	0.53
1:A:624:TYR:HA	1:A:629:TRP:CD1	2.43	0.53
1:B:2103:UNK:O	1:B:2106:UNK:HG3	2.08	0.53
1:B:2425:UNK:O	1:B:2425:UNK:HG2	2.09	0.53
1:B:2492:VAL:HG21	1:B:2527:VAL:HG22	1.90	0.53
1:C:999:UNK:HG3	1:C:1007:UNK:HG2	1.90	0.53
1:C:1734:SER:HA	1:C:1741:LEU:HD11	1.89	0.53
1:C:2104:UNK:HA	1:C:2107:UNK:HG3	1.90	0.53
1:C:2303:ASP:OD1	1:C:2303:ASP:N	2.39	0.53
1:C:33:ALA:O	1:C:37:ARG:HG2	2.08	0.53
1:C:551:PRO:HG3	1:C:560:VAL:HG21	1.89	0.53
1:C:992:UNK:HG2	1:C:994:UNK:HG2	1.87	0.53
1:A:1163:ASP:CB	1:A:1199:UNK:HG3	2.38	0.53
1:A:580:ARG:HH11	1:A:614:GLY:HA3	1.72	0.53
1:B:2088:UNK:HG2	1:B:2188:ARG:HH12	1.73	0.53
1:B:992:UNK:HG2	1:B:994:UNK:HG2	1.87	0.53
1:B:994:UNK:CG	1:B:996:UNK:HG3	2.37	0.53
1:C:2768:ASP:OD2	1:C:2936:GLY:N	2.41	0.53
1:A:1323:GLU:N	1:A:1343:LEU:O	2.41	0.53
1:A:2088:UNK:HG2	1:A:2188:ARG:HH12	1.74	0.53
1:A:2425:UNK:O	1:A:2425:UNK:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2768:ASP:OD2	1:A:2936:GLY:N	2.41	0.53
1:A:526:ILE:HD12	1:A:549:PHE:HB3	1.90	0.53
1:C:2122:UNK:CA	1:C:2125:UNK:HG3	2.38	0.53
1:C:668:THR:OG1	1:C:698:ILE:HD11	2.08	0.53
1:C:836:VAL:HG21	1:C:2437:UNK:HB2	1.90	0.53
1:C:970:ILE:HD13	1:C:996:UNK:HG1	1.91	0.53
1:A:1425:VAL:HG13	1:A:1474:LEU:HD13	1.91	0.53
1:A:2085:UNK:C	1:A:2088:UNK:HG3	2.38	0.53
1:A:2104:UNK:HA	1:A:2107:UNK:HG3	1.90	0.53
1:A:792:ALA:HA	1:A:799:PHE:CE2	2.43	0.53
1:A:992:UNK:CG	1:A:996:UNK:HG2	2.32	0.53
1:B:2551:PRO:O	1:B:2617:LEU:HB2	2.08	0.53
1:B:3018:LEU:O	1:B:3022:GLU:HB2	2.08	0.53
1:C:1089:ALA:O	1:C:1091:LEU:N	2.42	0.53
1:C:2492:VAL:HG21	1:C:2527:VAL:HG22	1.90	0.53
1:C:500:GLN:O	1:C:504:LYS:N	2.24	0.53
1:C:980:UNK:N	1:C:989:UNK:O	2.41	0.53
1:A:2081:UNK:C	1:A:2084:UNK:HG3	2.39	0.53
1:A:551:PRO:HG3	1:A:560:VAL:HG21	1.89	0.53
1:A:716:ALA:HA	1:A:719:VAL:HG23	1.90	0.53
1:B:1148:GLU:O	1:B:1150:ALA:N	2.42	0.53
1:B:1538:ARG:NH1	1:B:1722:PRO:HB3	2.18	0.53
1:B:2086:UNK:O	1:B:2089:UNK:CG	2.52	0.53
1:B:411:PRO:HD2	1:B:1025:VAL:HG11	1.91	0.53
1:B:980:UNK:N	1:B:989:UNK:O	2.41	0.53
1:C:1425:VAL:HG13	1:C:1474:LEU:HD13	1.91	0.53
1:A:2591:ARG:NH1	1:C:2012:GLY:C	2.61	0.53
1:C:2123:UNK:O	1:C:2126:UNK:CG	2.55	0.53
1:C:2631:PRO:HG3	1:C:2649:LEU:HD13	1.90	0.53
1:C:745:THR:HG23	1:C:834:GLU:HA	1.90	0.53
1:A:1087:PHE:HB3	1:B:117:LYS:HZ1	1.74	0.53
1:A:836:VAL:HG21	1:A:2437:UNK:HB2	1.90	0.53
1:A:970:ILE:HD13	1:A:996:UNK:HG1	1.91	0.53
1:A:999:UNK:HG3	1:A:1007:UNK:HG2	1.90	0.53
1:B:33:ALA:O	1:B:37:ARG:HG2	2.08	0.53
1:B:526:ILE:HD12	1:B:549:PHE:HB3	1.90	0.53
1:B:992:UNK:HG1	1:B:994:UNK:HG3	1.81	0.53
1:C:1226:UNK:HB1	1:C:1282:THR:HG21	1.90	0.53
1:C:2082:UNK:O	1:C:2086:UNK:HG3	2.09	0.53
1:A:961:ARG:NH2	1:A:1196:UNK:O	2.42	0.53
1:A:1420:THR:OG1	1:A:1485:HIS:NE2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2088:UNK:C	1:A:2188:ARG:NH1	2.72	0.53
1:A:2135:UNK:CG	1:A:2136:ASP:H	2.22	0.53
1:A:588:GLU:HB3	1:A:593:LEU:HD11	1.91	0.53
1:B:1151:GLU:HB2	1:B:1179:ALA:HB3	1.90	0.53
1:B:1488:VAL:HG12	1:B:1490:ARG:HH11	1.73	0.53
1:B:2135:UNK:CG	1:B:2136:ASP:H	2.22	0.53
1:B:2246:ALA:C	1:B:2255:ARG:HH12	2.11	0.53
1:B:836:VAL:HG21	1:B:2437:UNK:HB2	1.90	0.53
1:B:931:UNK:HG2	1:B:933:UNK:CG	2.37	0.53
1:C:1174:VAL:HB	1:C:1188:LEU:HB3	1.91	0.53
1:C:1634:ARG:HD2	1:C:1638:PRO:HA	1.91	0.53
1:B:2012:GLY:C	1:C:2591:ARG:NH1	2.61	0.53
1:A:1148:GLU:O	1:A:1150:ALA:N	2.42	0.53
1:A:1151:GLU:HB2	1:A:1179:ALA:HB3	1.90	0.53
1:B:2631:PRO:HG3	1:B:2649:LEU:HD13	1.90	0.53
1:B:2740:CYS:HB2	1:B:2998:GLY:HA2	1.91	0.53
1:B:970:ILE:HD13	1:B:996:UNK:HG1	1.91	0.53
1:C:2246:ALA:C	1:C:2255:ARG:HH12	2.11	0.53
1:C:2425:UNK:HG2	1:C:2425:UNK:O	2.09	0.53
1:A:2860:ALA:HB1	1:A:3005:LEU:HD13	1.90	0.53
1:A:33:ALA:O	1:A:37:ARG:HG2	2.08	0.53
1:A:992:UNK:HG2	1:A:994:UNK:HG2	1.87	0.53
1:B:1323:GLU:N	1:B:1343:LEU:O	2.42	0.53
1:B:2087:UNK:CA	1:B:2090:UNK:HG3	2.37	0.53
1:B:33:ALA:O	1:B:37:ARG:N	2.35	0.53
1:C:2088:UNK:C	1:C:2188:ARG:NH1	2.72	0.53
1:C:2094:UNK:H	1:C:2097:UNK:HG3	1.74	0.53
1:C:2112:UNK:N	1:C:2115:UNK:HG3	2.23	0.53
1:A:1634:ARG:HD2	1:A:1638:PRO:HA	1.91	0.52
1:A:2103:UNK:O	1:A:2106:UNK:HG3	2.08	0.52
1:A:2115:UNK:HA	1:A:2118:UNK:HG3	1.90	0.52
1:A:2551:PRO:O	1:A:2617:LEU:HB2	2.08	0.52
1:B:961:ARG:NH2	1:B:1196:UNK:O	2.42	0.52
1:B:2081:UNK:C	1:B:2084:UNK:HG3	2.39	0.52
1:C:1530:LEU:HD21	1:C:1554:LEU:HD22	1.91	0.52
1:C:2215:THR:HG22	1:C:2216:GLU:HG3	1.91	0.52
1:C:2740:CYS:HB2	1:C:2998:GLY:HA2	1.92	0.52
1:C:368:ILE:HG21	1:C:373:ILE:HG13	1.90	0.52
1:A:208:VAL:HG12	1:A:248:ILE:HG12	1.92	0.52
1:B:2085:UNK:C	1:B:2088:UNK:HG3	2.38	0.52
1:B:2112:UNK:N	1:B:2115:UNK:HG3	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2085:UNK:C	1:C:2088:UNK:HG3	2.38	0.52
1:C:2554:ALA:HB1	1:C:2614:LYS:HZ2	1.74	0.52
1:C:411:PRO:HD2	1:C:1025:VAL:HG11	1.91	0.52
1:A:1174:VAL:HB	1:A:1188:LEU:HB3	1.91	0.52
1:B:1001:UNK:HG1	1:B:1018:ARG:HH22	1.74	0.52
1:B:716:ALA:HA	1:B:719:VAL:HG23	1.90	0.52
1:C:71:GLU:HG2	1:C:142:ARG:NH2	2.24	0.52
1:A:1530:LEU:HD21	1:A:1554:LEU:HD22	1.91	0.52
1:A:1733:ASN:HD22	1:A:1736:ARG:HD2	1.74	0.52
1:A:2089:UNK:HA	1:A:2188:ARG:HH11	1.74	0.52
1:A:2808:ARG:HB2	1:A:2895:SER:O	2.10	0.52
1:A:71:GLU:HG2	1:A:142:ARG:NH2	2.24	0.52
1:A:745:THR:HG23	1:A:834:GLU:HA	1.90	0.52
1:A:931:UNK:HG2	1:A:933:UNK:HG2	1.91	0.52
1:B:2094:UNK:HG2	1:B:2096:UNK:CG	2.23	0.52
1:B:71:GLU:HG2	1:B:142:ARG:NH2	2.24	0.52
1:C:1151:GLU:HB2	1:C:1179:ALA:HB3	1.90	0.52
1:C:1538:ARG:NH1	1:C:1722:PRO:HB3	2.18	0.52
1:A:400:TRP:CZ3	1:A:636:PRO:HB2	2.45	0.52
1:B:1287:VAL:O	1:B:1291:LYS:HG3	2.10	0.52
1:B:1357:ILE:HG13	1:B:1710:THR:HG21	1.89	0.52
1:B:2089:UNK:HA	1:B:2188:ARG:HH11	1.74	0.52
1:B:2094:UNK:H	1:B:2097:UNK:HG3	1.75	0.52
1:B:2236:LEU:HD23	1:B:2288:HIS:HB2	1.92	0.52
1:B:368:ILE:HG21	1:B:373:ILE:HG13	1.90	0.52
1:C:1148:GLU:O	1:C:1150:ALA:N	2.42	0.52
1:C:2135:UNK:CG	1:C:2136:ASP:H	2.22	0.52
1:A:411:PRO:HD2	1:A:1025:VAL:HG11	1.91	0.52
1:A:1110:VAL:HG13	1:A:1172:VAL:HG11	1.92	0.52
1:A:1287:VAL:O	1:A:1291:LYS:HG3	2.10	0.52
1:A:2631:PRO:HG3	1:A:2649:LEU:HD13	1.90	0.52
1:B:1093:PRO:HB3	1:B:1277:HIS:HE1	1.75	0.52
1:B:2087:UNK:HA	1:B:2090:UNK:CG	2.39	0.52
1:B:2808:ARG:HB2	1:B:2895:SER:O	2.10	0.52
1:B:745:THR:HG23	1:B:834:GLU:HA	1.90	0.52
1:B:999:UNK:HG3	1:B:1007:UNK:HG2	1.90	0.52
1:C:2081:UNK:C	1:C:2084:UNK:HG3	2.39	0.52
1:C:526:ILE:HD12	1:C:549:PHE:HB3	1.90	0.52
1:A:1164:THR:HA	1:A:1204:UNK:O	2.10	0.52
1:A:1093:PRO:HB3	1:A:1277:HIS:HE1	1.75	0.52
1:A:2094:UNK:H	1:A:2097:UNK:HG3	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:273:ARG:HD2	1:A:282:VAL:HG12	1.90	0.52
1:B:1110:VAL:HG13	1:B:1172:VAL:HG11	1.92	0.52
1:B:1226:UNK:HB1	1:B:1282:THR:HG21	1.90	0.52
1:C:1110:VAL:HG13	1:C:1172:VAL:HG11	1.92	0.52
1:C:961:ARG:NH2	1:C:1196:UNK:O	2.42	0.52
1:C:1287:VAL:O	1:C:1291:LYS:HG3	2.10	0.52
1:C:208:VAL:HB	1:C:255:LEU:HD13	1.92	0.52
1:C:2122:UNK:HA	1:C:2125:UNK:CG	2.40	0.52
1:B:2122:UNK:CA	1:B:2125:UNK:HG3	2.38	0.52
1:C:577:GLU:OE2	2:C:4000:FMN:O3'	2.28	0.52
1:A:2215:THR:HG22	1:A:2216:GLU:HG3	1.92	0.52
1:A:2740:CYS:HB2	1:A:2998:GLY:HA2	1.92	0.52
1:A:577:GLU:OE2	2:A:4000:FMN:O3'	2.28	0.52
1:B:1425:VAL:HG13	1:B:1474:LEU:HD13	1.91	0.52
1:B:1622:PRO:HD3	1:B:1685:LEU:HD21	1.92	0.52
1:C:2087:UNK:C	1:C:2090:UNK:HG3	2.40	0.52
1:C:2088:UNK:HG2	1:C:2188:ARG:HH12	1.73	0.52
1:C:208:VAL:HG12	1:C:248:ILE:HG12	1.92	0.52
1:C:400:TRP:CZ3	1:C:636:PRO:HB2	2.45	0.52
1:A:542:VAL:HG11	1:A:964:VAL:HB	1.92	0.52
1:B:106:ALA:O	1:B:112:PRO:HD2	2.10	0.52
1:B:1174:VAL:HB	1:B:1188:LEU:HB3	1.91	0.52
1:B:144:GLY:O	1:B:148:THR:N	2.34	0.52
1:B:2087:UNK:C	1:B:2090:UNK:HG3	2.40	0.52
1:B:2122:UNK:HA	1:B:2125:UNK:CG	2.40	0.52
1:B:2698:GLY:HA3	1:B:2705:LYS:HG3	1.92	0.52
1:B:588:GLU:HB3	1:B:593:LEU:HD11	1.91	0.52
1:C:1119:THR:O	1:C:1123:PHE:HB2	2.10	0.52
1:C:106:ALA:O	1:C:112:PRO:HD2	2.10	0.52
1:C:2094:UNK:HG2	1:C:2096:UNK:CG	2.23	0.52
1:C:2236:LEU:HD23	1:C:2288:HIS:HB2	1.92	0.52
1:A:2094:UNK:HG2	1:A:2096:UNK:CG	2.23	0.51
1:A:2552:ASP:OD1	1:A:2552:ASP:N	2.43	0.51
1:A:336:TRP:CE2	1:A:360:LEU:HD11	2.45	0.51
1:B:1530:LEU:HD21	1:B:1554:LEU:HD22	1.91	0.51
1:B:176:VAL:O	1:B:180:ALA:N	2.36	0.51
1:B:2088:UNK:C	1:B:2188:ARG:NH1	2.72	0.51
1:B:336:TRP:CE2	1:B:360:LEU:HD11	2.45	0.51
1:B:405:PRO:HG3	1:B:625:LEU:HG	1.92	0.51
1:C:420:LYS:HB3	1:C:641:ASP:OD2	2.10	0.51
1:C:932:UNK:O	1:C:936:UNK:CG	2.48	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:984:UNK:HG2	1:C:987:UNK:HG2	1.92	0.51
1:A:1226:UNK:HB1	1:A:1282:THR:HG21	1.90	0.51
1:A:1488:VAL:HG12	1:A:1490:ARG:HH11	1.73	0.51
1:B:1598:GLU:HG2	1:B:1666:ILE:HD13	1.93	0.51
1:B:2082:UNK:O	1:B:2086:UNK:HG3	2.09	0.51
1:C:1164:THR:HA	1:C:1204:UNK:O	2.10	0.51
1:A:2082:UNK:O	1:A:2086:UNK:HG3	2.09	0.51
1:A:2087:UNK:HA	1:A:2090:UNK:CG	2.39	0.51
1:B:2215:THR:HG22	1:B:2216:GLU:HG3	1.91	0.51
1:C:2790:MET:HG2	1:C:2809:LEU:HD11	1.93	0.51
1:C:588:GLU:HB3	1:C:593:LEU:HD11	1.91	0.51
1:A:1119:THR:O	1:A:1123:PHE:HB2	2.10	0.51
1:A:2086:UNK:O	1:A:2089:UNK:CG	2.52	0.51
1:A:2087:UNK:C	1:A:2090:UNK:HG3	2.40	0.51
1:A:2401:ILE:HG23	1:A:2403:ILE:H	1.75	0.51
1:A:2690:THR:O	1:A:2693:GLN:HG2	2.11	0.51
1:B:1733:ASN:HD22	1:B:1736:ARG:HD2	1.74	0.51
1:B:2123:UNK:O	1:B:2126:UNK:CG	2.56	0.51
1:B:2434:UNK:O	1:B:2434:UNK:HG2	2.11	0.51
1:B:400:TRP:CZ3	1:B:636:PRO:HB2	2.45	0.51
1:B:420:LYS:HB3	1:B:641:ASP:OD2	2.10	0.51
1:B:542:VAL:HG11	1:B:964:VAL:HB	1.92	0.51
1:C:508:GLN:HA	1:C:540:ASN:HB3	1.92	0.51
1:A:1622:PRO:HD3	1:A:1685:LEU:HD21	1.92	0.51
1:A:206:PRO:HG2	1:A:294:VAL:HA	1.92	0.51
1:B:1634:ARG:HD2	1:B:1638:PRO:HA	1.91	0.51
1:B:745:THR:OG1	1:B:834:GLU:O	2.19	0.51
1:C:2417:SER:O	1:C:2421:ASP:N	2.40	0.51
1:A:2122:UNK:HA	1:A:2125:UNK:CG	2.40	0.51
1:B:2690:THR:O	1:B:2693:GLN:HG2	2.11	0.51
1:B:984:UNK:HG2	1:B:987:UNK:HG2	1.93	0.51
1:A:2790:MET:HG2	1:A:2809:LEU:HD11	1.93	0.51
1:A:420:LYS:HB3	1:A:641:ASP:OD2	2.10	0.51
1:A:937:UNK:HG2	1:A:938:UNK:N	2.26	0.51
1:B:206:PRO:HG2	1:B:294:VAL:HA	1.92	0.51
1:C:2089:UNK:HA	1:C:2188:ARG:HH11	1.74	0.51
1:C:2401:ILE:HG23	1:C:2403:ILE:H	1.76	0.51
1:C:746:TYR:HA	1:C:749:TRP:HD1	1.76	0.51
1:A:2434:UNK:HG2	1:A:2434:UNK:O	2.11	0.51
1:B:1164:THR:HA	1:B:1204:UNK:O	2.10	0.51
1:B:208:VAL:HB	1:B:255:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2401:ILE:HG23	1:B:2403:ILE:H	1.76	0.51
1:C:1488:VAL:HG12	1:C:1490:ARG:HH11	1.73	0.51
1:C:1598:GLU:HG2	1:C:1666:ILE:HD13	1.92	0.51
1:C:1733:ASN:HD22	1:C:1736:ARG:HD2	1.74	0.51
1:C:792:ALA:HA	1:C:799:PHE:CE2	2.43	0.51
1:A:106:ALA:O	1:A:112:PRO:HD2	2.10	0.51
1:A:2105:UNK:HG2	1:A:2106:UNK:N	2.26	0.51
1:A:2123:UNK:O	1:A:2126:UNK:CG	2.56	0.51
1:A:2653:VAL:HA	1:A:3051:MET:HE3	1.92	0.51
1:A:2667:THR:HG21	1:A:3058:ARG:HH11	1.76	0.51
1:B:1119:THR:O	1:B:1123:PHE:HB2	2.10	0.51
1:B:937:UNK:HG2	1:B:938:UNK:N	2.25	0.51
1:B:981:UNK:HG1	1:B:987:UNK:C	2.41	0.51
1:C:2754:ILE:HA	1:C:2759:ALA:O	2.11	0.51
1:C:1001:UNK:HG1	1:C:1018:ARG:HH22	1.74	0.51
1:C:2086:UNK:O	1:C:2089:UNK:CG	2.52	0.51
1:C:2698:GLY:HA3	1:C:2705:LYS:HG3	1.92	0.51
1:C:936:UNK:O	1:C:941:UNK:N	2.44	0.51
1:C:937:UNK:HG2	1:C:938:UNK:N	2.25	0.51
1:A:2236:LEU:HD23	1:A:2288:HIS:HB2	1.92	0.50
1:A:2554:ALA:HB1	1:A:2614:LYS:HZ2	1.74	0.50
1:A:272:GLU:HB3	1:A:280:GLY:O	2.11	0.50
1:A:42:GLU:H	1:A:42:GLU:CD	2.14	0.50
1:B:1317:GLY:H	1:B:1324:VAL:HG12	1.76	0.50
1:B:42:GLU:CD	1:B:42:GLU:H	2.14	0.50
1:C:1986:LEU:HA	1:C:1989:PHE:HD2	1.76	0.50
1:C:2056:PHE:CZ	1:C:2180:LYS:HE2	2.47	0.50
1:C:2452:UNK:CG	1:C:2453:UNK:N	2.73	0.50
1:A:1331:ILE:HG13	1:A:1336:VAL:HG21	1.94	0.50
1:A:1634:ARG:HH11	1:A:1639:ALA:N	2.08	0.50
1:B:746:TYR:HA	1:B:749:TRP:HD1	1.76	0.50
1:C:1622:PRO:HD3	1:C:1685:LEU:HD21	1.92	0.50
1:C:2104:UNK:C	1:C:2107:UNK:HG3	2.42	0.50
1:C:2361:VAL:HG11	1:C:2398:LEU:HD23	1.93	0.50
1:C:2434:UNK:HG2	1:C:2434:UNK:O	2.11	0.50
1:C:336:TRP:CE2	1:C:360:LEU:HD11	2.45	0.50
1:C:42:GLU:H	1:C:42:GLU:CD	2.14	0.50
1:A:1598:GLU:HG2	1:A:1666:ILE:HD13	1.93	0.50
1:A:2180:LYS:HZ1	1:A:2962:ASP:HB3	1.75	0.50
1:A:2245:VAL:HG13	1:A:2255:ARG:CZ	2.42	0.50
1:A:2662:SER:HB2	1:A:2833:LEU:HD22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:780:ARG:HD2	1:A:816:LEU:HB3	1.93	0.50
1:B:1590:VAL:HG11	1:B:1671:TRP:CD2	2.47	0.50
1:B:2104:UNK:C	1:B:2107:UNK:HG3	2.42	0.50
1:B:2653:VAL:HA	1:B:3051:MET:HE3	1.93	0.50
1:C:1212:UNK:HG1	1:C:1342:ARG:HE	1.76	0.50
1:C:1093:PRO:HB3	1:C:1277:HIS:HE1	1.75	0.50
1:C:2245:VAL:HG13	1:C:2255:ARG:CZ	2.41	0.50
1:C:2808:ARG:HB2	1:C:2895:SER:O	2.10	0.50
1:A:1317:GLY:H	1:A:1324:VAL:HG12	1.76	0.50
1:A:1380:ALA:HB1	1:A:1474:LEU:HD12	1.93	0.50
1:A:2261:LYS:HA	1:A:2265:TRP:HB2	1.94	0.50
1:C:1590:VAL:HG11	1:C:1671:TRP:CD2	2.47	0.50
1:A:257:ARG:NH1	1:C:1695:LEU:HD23	2.23	0.50
1:C:272:GLU:HB3	1:C:280:GLY:O	2.11	0.50
1:C:780:ARG:HD2	1:C:816:LEU:HB3	1.93	0.50
1:A:1538:ARG:NH1	1:A:1722:PRO:HB3	2.18	0.50
1:A:2698:GLY:HA3	1:A:2705:LYS:HG3	1.92	0.50
1:B:2127:UNK:O	1:B:2130:UNK:CG	2.52	0.50
1:C:2140:VAL:HG22	1:C:2165:ILE:HD12	1.93	0.50
1:A:1590:VAL:HG11	1:A:1671:TRP:CD2	2.47	0.50
1:B:1331:ILE:HG13	1:B:1336:VAL:HG21	1.94	0.50
1:C:1010:UNK:CG	1:C:1017:ILE:HB	2.42	0.50
1:A:208:VAL:HB	1:A:255:LEU:HD13	1.92	0.50
1:A:2754:ILE:HA	1:A:2759:ALA:O	2.11	0.50
1:A:932:UNK:O	1:A:936:UNK:CG	2.48	0.50
1:A:936:UNK:O	1:A:941:UNK:N	2.45	0.50
1:B:1711:VAL:HA	1:B:1714:LEU:HG	1.93	0.50
1:B:207:MET:HA	1:B:249:THR:HG22	1.94	0.50
1:B:208:VAL:HG12	1:B:248:ILE:HG12	1.92	0.50
1:B:272:GLU:HB3	1:B:280:GLY:O	2.11	0.50
1:B:133:GLN:HG2	1:B:355:GLY:HA2	1.94	0.50
1:B:936:UNK:O	1:B:941:UNK:N	2.44	0.50
1:C:1207:UNK:HG2	1:C:1207:UNK:O	2.12	0.50
1:C:2552:ASP:N	1:C:2552:ASP:OD1	2.43	0.50
1:C:405:PRO:HG3	1:C:625:LEU:HG	1.93	0.50
1:A:1212:UNK:HG1	1:A:1342:ARG:HE	1.75	0.50
1:A:1212:UNK:O	1:A:1342:ARG:NH2	2.45	0.50
1:A:1986:LEU:HA	1:A:1989:PHE:HD2	1.76	0.50
1:A:2623:ALA:HB2	1:A:2812:LEU:HD21	1.94	0.50
1:A:2811:PHE:HB3	1:A:2894:THR:HG22	1.94	0.50
1:A:405:PRO:HG3	1:A:625:LEU:HG	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:505:ARG:HA	1:A:508:GLN:HB2	1.94	0.50
1:A:981:UNK:HG1	1:A:987:UNK:C	2.41	0.50
1:C:206:PRO:HG2	1:C:294:VAL:HA	1.92	0.50
1:C:2274:LEU:HD23	1:C:2277:ILE:HD12	1.94	0.50
1:C:2690:THR:O	1:C:2693:GLN:HG2	2.11	0.50
1:C:542:VAL:HG11	1:C:964:VAL:HB	1.92	0.50
1:C:981:UNK:HG1	1:C:987:UNK:C	2.41	0.50
1:A:133:GLN:HG2	1:A:355:GLY:HA2	1.94	0.50
1:A:1212:UNK:HG2	1:A:1342:ARG:NE	2.26	0.50
1:B:2334:HIS:HB3	1:B:2391:LYS:HA	1.94	0.50
1:C:981:UNK:HG1	1:C:987:UNK:O	2.12	0.50
1:C:981:UNK:CG	1:C:987:UNK:O	2.60	0.50
1:A:2334:HIS:HB3	1:A:2391:LYS:HA	1.94	0.49
1:A:990:UNK:HG3	1:A:998:UNK:HB2	1.94	0.49
1:B:2557:LEU:HD22	1:B:2613:ARG:HB2	1.94	0.49
1:B:2667:THR:HG21	1:B:3058:ARG:HH11	1.76	0.49
1:B:2829:LEU:HD21	1:B:3014:PHE:HE2	1.76	0.49
1:B:990:UNK:HG3	1:B:998:UNK:HB2	1.94	0.49
1:C:1331:ILE:HG13	1:C:1336:VAL:HG21	1.94	0.49
1:C:1711:VAL:HA	1:C:1714:LEU:HG	1.94	0.49
1:C:2261:LYS:HA	1:C:2265:TRP:HB2	1.94	0.49
1:C:2557:LEU:HD22	1:C:2613:ARG:HB2	1.94	0.49
1:A:1001:UNK:HG1	1:A:1018:ARG:HH22	1.74	0.49
1:A:2104:UNK:C	1:A:2107:UNK:HG3	2.42	0.49
1:A:2127:UNK:O	1:A:2130:UNK:CG	2.52	0.49
1:A:984:UNK:HG2	1:A:987:UNK:HG2	1.93	0.49
1:B:1986:LEU:HA	1:B:1989:PHE:HD2	1.76	0.49
1:B:2140:VAL:HG22	1:B:2165:ILE:HD12	1.93	0.49
1:B:2056:PHE:CZ	1:B:2180:LYS:HE2	2.47	0.49
1:B:2361:VAL:HG11	1:B:2398:LEU:HD23	1.93	0.49
1:B:2754:ILE:HA	1:B:2759:ALA:O	2.11	0.49
1:C:1317:GLY:H	1:C:1324:VAL:HG12	1.76	0.49
1:C:2811:PHE:HB3	1:C:2894:THR:HG22	1.94	0.49
1:A:1207:UNK:HG2	1:A:1207:UNK:O	2.12	0.49
1:A:2140:VAL:HG22	1:A:2165:ILE:HD12	1.93	0.49
1:A:2056:PHE:CZ	1:A:2180:LYS:HE2	2.47	0.49
1:A:647:THR:OG1	2:A:4000:FMN:O3P	2.27	0.49
1:A:508:GLN:HA	1:A:540:ASN:HB3	1.92	0.49
1:A:981:UNK:CG	1:A:987:UNK:O	2.60	0.49
1:B:1212:UNK:HG1	1:B:1342:ARG:HE	1.75	0.49
1:B:1212:UNK:O	1:B:1342:ARG:NH2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1178:ASN:HB2	1:C:1185:LEU:HD11	1.94	0.49
1:C:1212:UNK:O	1:C:1342:ARG:NH2	2.45	0.49
1:A:2361:VAL:HG11	1:A:2398:LEU:HD23	1.93	0.49
1:B:1119:THR:HA	1:B:1123:PHE:CD1	2.47	0.49
1:B:577:GLU:OE2	2:B:4000:FMN:O3'	2.28	0.49
1:C:1119:THR:HA	1:C:1123:PHE:CD1	2.48	0.49
1:C:1637:VAL:HG21	1:C:1671:TRP:CD2	2.48	0.49
1:C:2662:SER:HB2	1:C:2833:LEU:HD22	1.93	0.49
1:C:776:ASP:O	1:C:779:TRP:N	2.31	0.49
1:A:2274:LEU:HD23	1:A:2277:ILE:HD12	1.94	0.49
1:A:2557:LEU:HD22	1:A:2613:ARG:HB2	1.94	0.49
1:A:3080:ARG:NH1	1:A:3080:ARG:CG	2.72	0.49
1:B:1637:VAL:HG21	1:B:1671:TRP:CD2	2.48	0.49
1:B:2105:UNK:HG2	1:B:2106:UNK:N	2.26	0.49
1:B:2245:VAL:HG13	1:B:2255:ARG:CZ	2.41	0.49
1:B:981:UNK:HG1	1:B:987:UNK:O	2.12	0.49
1:C:1380:ALA:HB1	1:C:1474:LEU:HD12	1.94	0.49
1:C:184:LEU:HB3	1:C:311:TRP:HE3	1.78	0.49
1:A:981:UNK:HG1	1:A:987:UNK:O	2.12	0.49
1:B:1212:UNK:HG2	1:B:1342:ARG:NE	2.26	0.49
1:B:2662:SER:HB2	1:B:2833:LEU:HD22	1.94	0.49
1:B:505:ARG:HA	1:B:508:GLN:HB2	1.94	0.49
1:B:508:GLN:HA	1:B:540:ASN:HB3	1.92	0.49
1:B:976:UNK:CG	1:B:993:UNK:HB1	2.29	0.49
1:C:207:MET:HA	1:C:249:THR:HG22	1.94	0.49
1:A:1119:THR:HA	1:A:1123:PHE:CD1	2.47	0.49
1:A:2503:LYS:HE3	1:A:2505:GLU:OE2	2.13	0.49
1:A:184:LEU:HB3	1:A:311:TRP:HE3	1.78	0.49
1:B:2790:MET:HG2	1:B:2809:LEU:HD11	1.93	0.49
1:B:932:UNK:HA	1:B:935:UNK:HG3	1.94	0.49
1:C:2087:UNK:HA	1:C:2090:UNK:CG	2.39	0.49
1:C:2105:UNK:HG2	1:C:2106:UNK:N	2.26	0.49
1:C:3080:ARG:NH1	1:C:3080:ARG:HG3	2.09	0.49
1:A:1010:UNK:CG	1:A:1017:ILE:HB	2.42	0.49
1:A:207:MET:HA	1:A:249:THR:HG22	1.94	0.49
1:A:2829:LEU:HD21	1:A:3014:PHE:HE2	1.77	0.49
1:B:1010:UNK:CG	1:B:1017:ILE:HB	2.42	0.49
1:B:1291:LYS:HA	1:B:1344:ALA:HB3	1.95	0.49
1:B:2261:LYS:HA	1:B:2265:TRP:HB2	1.93	0.49
1:B:981:UNK:CG	1:B:987:UNK:O	2.60	0.49
1:A:117:LYS:HZ1	1:C:1087:PHE:HB3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1362:MET:HG3	1:C:1430:VAL:HG21	1.95	0.49
1:C:305:ILE:HD13	1:C:327:GLU:HG2	1.95	0.49
1:A:1695:LEU:HD23	1:B:257:ARG:NH1	2.23	0.49
1:A:2291:LEU:HD21	1:A:2332:LEU:HD22	1.95	0.49
1:A:2962:ASP:N	1:A:2962:ASP:OD1	2.34	0.49
1:A:444:ILE:HD12	1:A:655:ALA:HA	1.95	0.49
1:A:790:ALA:HB3	1:A:826:LEU:HD21	1.95	0.49
1:B:1380:ALA:HB1	1:B:1474:LEU:HD12	1.93	0.49
1:B:184:LEU:HB3	1:B:311:TRP:HE3	1.78	0.49
1:B:2087:UNK:O	1:B:2090:UNK:HG3	2.13	0.49
1:B:2274:LEU:HD23	1:B:2277:ILE:HD12	1.94	0.49
1:B:780:ARG:HD2	1:B:816:LEU:HB3	1.93	0.49
1:B:792:ALA:HA	1:B:799:PHE:CE2	2.43	0.49
1:C:2094:UNK:O	1:C:2098:UNK:HG3	2.13	0.49
1:C:932:UNK:HA	1:C:935:UNK:HG3	1.94	0.49
1:C:992:UNK:HG1	1:C:994:UNK:HG3	1.81	0.49
1:C:999:UNK:O	1:C:1007:UNK:N	2.46	0.49
1:A:746:TYR:HA	1:A:749:TRP:HD1	1.76	0.49
1:B:999:UNK:O	1:B:1007:UNK:N	2.46	0.49
1:C:2334:HIS:HB3	1:C:2391:LYS:HA	1.94	0.49
1:C:997:UNK:HB1	1:C:1009:UNK:HG2	1.95	0.49
1:A:1012:UNK:HG2	1:A:1012:UNK:O	2.13	0.48
1:A:1111:PHE:HE1	1:A:1129:LEU:HD11	1.78	0.48
1:A:1637:VAL:HG21	1:A:1671:TRP:CD2	2.48	0.48
1:A:2087:UNK:O	1:A:2090:UNK:HG3	2.13	0.48
1:A:868:ARG:HB3	1:A:872:ARG:NH1	2.28	0.48
1:B:1207:UNK:HG2	1:B:1207:UNK:O	2.12	0.48
1:B:2094:UNK:O	1:B:2098:UNK:HG3	2.13	0.48
1:B:2120:UNK:HG2	1:B:2121:UNK:N	2.28	0.48
1:B:361:THR:HG21	1:B:377:PRO:HG3	1.95	0.48
1:B:444:ILE:HD12	1:B:655:ALA:HA	1.95	0.48
1:C:2100:UNK:C	1:C:2103:UNK:HG3	2.31	0.48
1:C:2118:UNK:HG2	1:C:2119:UNK:N	2.28	0.48
1:C:2829:LEU:HD21	1:C:3014:PHE:HE2	1.76	0.48
1:C:2667:THR:HG21	1:C:3058:ARG:HH11	1.76	0.48
1:A:999:UNK:O	1:A:1007:UNK:N	2.46	0.48
1:A:1225:UNK:HG1	1:A:1283:ASP:CG	2.34	0.48
1:A:1651:THR:HB	1:A:1656:LYS:HD2	1.95	0.48
1:A:2926:SER:HB3	1:A:2976:TRP:HH2	1.79	0.48
1:B:2086:UNK:CA	1:B:2089:UNK:HG3	2.43	0.48
1:C:1533:VAL:HG13	1:C:1582:HIS:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2086:UNK:CA	1:A:2089:UNK:HG3	2.43	0.48
1:A:932:UNK:HA	1:A:935:UNK:HG3	1.94	0.48
1:B:1003:UNK:CG	1:B:1004:UNK:N	2.53	0.48
1:B:1533:VAL:HG13	1:B:1582:HIS:HB2	1.95	0.48
1:B:2115:UNK:O	1:B:2119:UNK:HG3	2.13	0.48
1:B:2291:LEU:HD21	1:B:2332:LEU:HD22	1.95	0.48
1:B:2820:ILE:HD12	1:B:2822:LEU:HD21	1.95	0.48
1:B:501:VAL:HA	1:B:504:LYS:HE2	1.96	0.48
1:B:790:ALA:HB3	1:B:826:LEU:HD21	1.95	0.48
1:C:2503:LYS:HE3	1:C:2505:GLU:OE2	2.13	0.48
1:C:2623:ALA:HB2	1:C:2812:LEU:HD21	1.94	0.48
1:C:133:GLN:HG2	1:C:355:GLY:HA2	1.94	0.48
1:C:361:THR:HG21	1:C:377:PRO:HG3	1.95	0.48
1:C:996:UNK:O	1:C:996:UNK:HG2	2.13	0.48
1:A:1435:VAL:HG22	1:A:1703:ILE:HD12	1.95	0.48
1:A:2167:THR:HB	1:A:2198:ALA:HB3	1.96	0.48
1:A:2103:UNK:CG	1:A:2919:GLY:O	2.62	0.48
1:B:2623:ALA:HB2	1:B:2812:LEU:HD21	1.94	0.48
1:C:2848:GLY:H	1:C:3001:HIS:CD2	2.31	0.48
1:C:2667:THR:HB	1:C:3081:LEU:HD11	1.95	0.48
1:A:1711:VAL:HA	1:A:1714:LEU:HG	1.93	0.48
1:A:1996:PRO:O	1:A:2000:LEU:N	2.41	0.48
1:A:2170:ARG:HB2	1:A:2175:ARG:HG3	1.95	0.48
1:A:2060:TRP:HZ2	1:A:2966:ASP:HA	1.79	0.48
1:B:1087:PHE:HB3	1:C:117:LYS:HZ3	1.77	0.48
1:B:1103:VAL:HG21	1:B:1269:MET:SD	2.54	0.48
1:B:1435:VAL:HG22	1:B:1703:ILE:HD12	1.95	0.48
1:B:2167:THR:HB	1:B:2198:ALA:HB3	1.96	0.48
1:B:2667:THR:HB	1:B:3081:LEU:HD11	1.96	0.48
1:C:1381:ASP:OD1	1:C:1391:SER:OG	2.22	0.48
1:C:2736:PRO:HG2	1:C:2746:SER:HA	1.96	0.48
1:C:505:ARG:HA	1:C:508:GLN:HB2	1.94	0.48
1:C:976:UNK:CG	1:C:993:UNK:HB1	2.29	0.48
1:A:2848:GLY:H	1:A:3001:HIS:CD2	2.31	0.48
1:A:184:LEU:HD13	1:A:311:TRP:HB3	1.96	0.48
1:B:1133:VAL:O	1:B:1193:ALA:N	2.42	0.48
1:B:1695:LEU:HD23	1:C:257:ARG:NH1	2.23	0.48
1:B:2645:ASP:OD1	1:B:2647:VAL:HG23	2.14	0.48
1:B:2811:PHE:HB3	1:B:2894:THR:HG22	1.94	0.48
1:B:2060:TRP:HZ2	1:B:2966:ASP:HA	1.79	0.48
1:B:982:UNK:CG	1:B:983:UNK:N	2.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1012:UNK:HG2	1:C:1012:UNK:O	2.13	0.48
1:C:1103:VAL:HG21	1:C:1269:MET:SD	2.54	0.48
1:C:1291:LYS:HA	1:C:1344:ALA:HB3	1.95	0.48
1:C:2087:UNK:O	1:C:2090:UNK:HG3	2.13	0.48
1:C:2088:UNK:O	1:C:2188:ARG:NH1	2.47	0.48
1:C:2645:ASP:OD1	1:C:2647:VAL:HG23	2.13	0.48
1:C:2648:ALA:HA	1:C:2718:VAL:HG13	1.96	0.48
1:C:2820:ILE:HD12	1:C:2822:LEU:HD21	1.95	0.48
1:C:444:ILE:HD12	1:C:655:ALA:HA	1.95	0.48
1:A:1178:ASN:HB2	1:A:1185:LEU:HD11	1.94	0.48
1:A:2115:UNK:O	1:A:2119:UNK:HG3	2.13	0.48
1:B:1362:MET:HG3	1:B:1430:VAL:HG21	1.95	0.48
1:B:1508:ILE:HB	1:B:1562:ARG:HD3	1.96	0.48
1:B:2103:UNK:CG	1:B:2919:GLY:O	2.62	0.48
1:B:803:GLU:OE1	1:B:2431:UNK:CG	2.62	0.48
1:B:931:UNK:CG	1:B:934:UNK:HG3	2.44	0.48
1:C:1634:ARG:HH11	1:C:1639:ALA:N	2.08	0.48
1:C:2060:TRP:HZ2	1:C:2966:ASP:HA	1.79	0.48
1:A:1163:ASP:CG	1:A:1199:UNK:HG3	2.34	0.48
1:A:1103:VAL:HG21	1:A:1269:MET:SD	2.54	0.48
1:A:1291:LYS:HA	1:A:1344:ALA:HB3	1.95	0.48
1:A:1362:MET:HG3	1:A:1430:VAL:HG21	1.95	0.48
1:A:144:GLY:O	1:A:148:THR:N	2.34	0.48
1:A:2088:UNK:O	1:A:2188:ARG:NH1	2.47	0.48
1:A:2592:PRO:HA	1:A:2599:TRP:CD1	2.49	0.48
1:A:2666:PRO:CB	1:A:2727:VAL:HA	2.44	0.48
1:A:2180:LYS:NZ	1:A:2962:ASP:HB3	2.29	0.48
1:A:931:UNK:CG	1:A:934:UNK:HG3	2.44	0.48
1:A:985:UNK:HG2	1:A:986:UNK:N	2.29	0.48
1:B:305:ILE:HD13	1:B:327:GLU:HG2	1.95	0.48
1:C:1212:UNK:HG2	1:C:1342:ARG:NE	2.26	0.48
1:C:2094:UNK:HG1	1:C:2096:UNK:HG3	1.90	0.48
1:C:2115:UNK:O	1:C:2119:UNK:HG3	2.13	0.48
1:C:2167:THR:HB	1:C:2198:ALA:HB3	1.96	0.48
1:C:2666:PRO:CB	1:C:2727:VAL:HA	2.44	0.48
1:C:868:ARG:HB3	1:C:872:ARG:NH1	2.28	0.48
1:C:990:UNK:HG3	1:C:998:UNK:HB2	1.94	0.48
1:A:2094:UNK:O	1:A:2098:UNK:HG3	2.13	0.48
1:A:2120:UNK:HG2	1:A:2121:UNK:N	2.28	0.48
1:A:2645:ASP:OD1	1:A:2647:VAL:HG23	2.14	0.48
1:A:2667:THR:HB	1:A:3081:LEU:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:305:ILE:HD13	1:A:327:GLU:HG2	1.95	0.48
1:A:997:UNK:N	1:A:1009:UNK:O	2.47	0.48
1:B:171:LYS:HE3	1:B:173:ALA:HB3	1.96	0.48
1:B:2088:UNK:O	1:B:2188:ARG:NH1	2.47	0.48
1:B:647:THR:HG22	1:B:901:ILE:HD11	1.96	0.48
1:C:1467:VAL:HA	1:C:1605:LYS:HD2	1.96	0.48
1:C:2592:PRO:HA	1:C:2599:TRP:CD1	2.49	0.48
1:C:2926:SER:HB3	1:C:2976:TRP:HH2	1.78	0.48
1:C:997:UNK:N	1:C:1009:UNK:O	2.47	0.48
1:A:2762:VAL:HG22	1:A:2822:LEU:HB2	1.96	0.48
1:A:2820:ILE:HD12	1:A:2822:LEU:HD21	1.95	0.48
1:B:997:UNK:N	1:B:1009:UNK:O	2.47	0.48
1:B:2352:ILE:HG12	1:B:2412:ALA:HB1	1.96	0.48
1:B:575:HIS:CD2	1:B:644:LEU:HD22	2.49	0.48
1:B:808:ALA:HB3	1:B:811:ASP:HB2	1.96	0.48
1:C:1651:THR:HB	1:C:1656:LYS:HD2	1.95	0.48
1:C:171:LYS:HE3	1:C:173:ALA:HB3	1.96	0.48
1:C:2448:UNK:HG2	1:C:2448:UNK:O	2.13	0.48
1:C:301:LEU:HD13	1:C:330:LEU:HD22	1.96	0.48
1:C:641:ASP:OD1	1:C:641:ASP:N	2.47	0.48
1:C:575:HIS:CD2	1:C:644:LEU:HD22	2.48	0.48
1:A:176:VAL:O	1:A:180:ALA:N	2.36	0.47
1:A:2736:PRO:HG2	1:A:2746:SER:HA	1.96	0.47
1:A:996:UNK:O	1:A:996:UNK:HG2	2.13	0.47
1:B:2448:UNK:O	1:B:2448:UNK:HG2	2.13	0.47
1:B:2666:PRO:CB	1:B:2727:VAL:HA	2.44	0.47
1:B:2180:LYS:NZ	1:B:2962:ASP:HB3	2.29	0.47
1:B:674:TRP:CD1	1:B:895:THR:HG21	2.49	0.47
1:B:670:GLY:HA3	1:B:899:ALA:HB2	1.96	0.47
1:C:1013:UNK:CG	1:C:1014:UNK:N	2.58	0.47
1:C:1435:VAL:HG22	1:C:1703:ILE:HD12	1.95	0.47
1:C:2843:GLN:HG2	1:C:2845:PHE:CZ	2.49	0.47
1:A:2348:GLN:O	1:A:2416:MET:HG3	2.15	0.47
1:A:2554:ALA:HB1	1:A:2614:LYS:HD2	1.95	0.47
1:B:1012:UNK:HG2	1:B:1012:UNK:O	2.14	0.47
1:B:1111:PHE:HE1	1:B:1129:LEU:HD11	1.78	0.47
1:B:1651:THR:HB	1:B:1656:LYS:HD2	1.95	0.47
1:B:2101:UNK:HG2	1:B:2102:UNK:N	2.29	0.47
1:B:2434:UNK:HG3	1:B:2523:GLU:O	2.14	0.47
1:B:2503:LYS:HE3	1:B:2505:GLU:OE2	2.13	0.47
1:B:2592:PRO:HA	1:B:2599:TRP:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2848:GLY:H	1:B:3001:HIS:CD2	2.31	0.47
1:B:2884:ASP:HA	1:B:2916:ARG:NH1	2.30	0.47
1:C:1010:UNK:HG2	1:C:1017:ILE:HB	1.96	0.47
1:C:184:LEU:HD13	1:C:311:TRP:HB3	1.96	0.47
1:C:2554:ALA:HB1	1:C:2614:LYS:HD2	1.95	0.47
1:C:2180:LYS:NZ	1:C:2962:ASP:HB3	2.29	0.47
1:C:606:ASN:HD22	1:C:606:ASN:H	1.62	0.47
1:C:647:THR:HG22	1:C:901:ILE:HD11	1.96	0.47
1:A:1533:VAL:HG13	1:A:1582:HIS:HB2	1.95	0.47
1:A:2434:UNK:HG3	1:A:2523:GLU:O	2.14	0.47
1:B:1072:TRP:HE1	1:B:1077:VAL:HG22	1.80	0.47
1:B:1178:ASN:HB2	1:B:1185:LEU:HD11	1.94	0.47
1:B:1625:LEU:HD11	1:B:1660:LEU:HB3	1.95	0.47
1:B:2927:GLN:HE22	1:B:2941:PHE:C	2.17	0.47
1:B:365:ALA:O	1:B:369:ARG:N	2.42	0.47
1:C:1163:ASP:CG	1:C:1199:UNK:HG3	2.34	0.47
1:C:1225:UNK:HG1	1:C:1283:ASP:CG	2.34	0.47
1:C:1450:ALA:N	1:C:1613:ARG:O	2.48	0.47
1:C:176:VAL:O	1:C:180:ALA:N	2.36	0.47
1:C:790:ALA:HB3	1:C:826:LEU:HD21	1.95	0.47
1:A:365:ALA:HB3	1:A:366:PRO:HD3	1.96	0.47
1:A:674:TRP:CD1	1:A:895:THR:HG21	2.50	0.47
1:B:2123:UNK:HA	1:B:2126:UNK:HG3	1.97	0.47
1:B:2093:UNK:HG1	1:B:2132:UNK:HB1	1.95	0.47
1:B:2252:VAL:HG22	1:B:2255:ARG:NH2	2.30	0.47
1:B:2461:VAL:HG21	1:B:2751:VAL:HG13	1.96	0.47
1:B:2648:ALA:HA	1:B:2718:VAL:HG13	1.96	0.47
1:C:2170:ARG:HB2	1:C:2175:ARG:HG3	1.95	0.47
1:C:365:ALA:HB3	1:C:366:PRO:HD3	1.96	0.47
1:C:808:ALA:HB3	1:C:811:ASP:HB2	1.96	0.47
1:C:674:TRP:CD1	1:C:895:THR:HG21	2.49	0.47
1:C:985:UNK:HG2	1:C:986:UNK:N	2.29	0.47
1:A:997:UNK:HB1	1:A:1009:UNK:CG	2.44	0.47
1:A:1508:ILE:HB	1:A:1562:ARG:HD3	1.97	0.47
1:A:2118:UNK:HG2	1:A:2119:UNK:N	2.28	0.47
1:A:2648:ALA:HA	1:A:2718:VAL:HG13	1.96	0.47
1:A:2843:GLN:HG2	1:A:2845:PHE:CZ	2.49	0.47
1:A:2927:GLN:HE22	1:A:2941:PHE:C	2.17	0.47
1:B:997:UNK:HB1	1:B:1009:UNK:HG2	1.95	0.47
1:B:2170:ARG:HB2	1:B:2175:ARG:HG3	1.96	0.47
1:B:832:ASP:O	1:B:836:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:985:UNK:HG2	1:B:986:UNK:N	2.29	0.47
1:C:1455:VAL:HB	1:C:1480:ARG:HH12	1.80	0.47
1:C:2103:UNK:CG	1:C:2919:GLY:O	2.62	0.47
1:C:2123:UNK:HA	1:C:2126:UNK:HG3	1.97	0.47
1:C:2461:VAL:HG21	1:C:2751:VAL:HG13	1.96	0.47
1:A:997:UNK:HB1	1:A:1009:UNK:HG2	1.95	0.47
1:A:2093:UNK:HG1	1:A:2132:UNK:HB1	1.95	0.47
1:A:2448:UNK:HG2	1:A:2448:UNK:O	2.13	0.47
1:A:606:ASN:HD22	1:A:606:ASN:H	1.63	0.47
1:B:1590:VAL:HG11	1:B:1671:TRP:CE2	2.50	0.47
1:B:2376:LEU:HD22	1:B:2392:VAL:HG21	1.97	0.47
1:B:2681:THR:O	1:B:2764:ALA:HA	2.15	0.47
1:B:641:ASP:OD1	1:B:641:ASP:N	2.47	0.47
1:B:683:GLY:CA	1:B:700:ASN:HB2	2.44	0.47
1:B:932:UNK:O	1:B:936:UNK:CG	2.47	0.47
1:B:996:UNK:HG2	1:B:996:UNK:O	2.13	0.47
1:C:1723:GLU:C	1:C:1725:SER:H	2.18	0.47
1:C:2927:GLN:HE22	1:C:2941:PHE:C	2.17	0.47
1:C:966:PRO:O	1:C:970:ILE:N	2.48	0.47
1:C:997:UNK:HB1	1:C:1009:UNK:CG	2.45	0.47
1:A:1672:GLN:HE21	1:A:1672:GLN:HB3	1.58	0.47
1:A:1723:GLU:C	1:A:1725:SER:H	2.18	0.47
1:A:2800:PHE:CE1	1:A:2812:LEU:HD22	2.50	0.47
1:A:2884:ASP:HA	1:A:2916:ARG:NH1	2.29	0.47
1:B:1163:ASP:CG	1:B:1199:UNK:HG3	2.34	0.47
1:B:1455:VAL:HB	1:B:1480:ARG:HH12	1.80	0.47
1:B:184:LEU:HD13	1:B:311:TRP:HB3	1.96	0.47
1:B:365:ALA:HB3	1:B:366:PRO:HD3	1.96	0.47
1:B:745:THR:HG22	1:B:747:LEU:H	1.80	0.47
1:C:2120:UNK:HG2	1:C:2121:UNK:N	2.28	0.47
1:C:2762:VAL:HG22	1:C:2822:LEU:HB2	1.96	0.47
1:C:2773:GLU:HA	1:C:2776:ILE:HG22	1.97	0.47
1:A:1381:ASP:OD1	1:A:1391:SER:OG	2.22	0.47
1:A:1625:LEU:HD11	1:A:1660:LEU:HB3	1.96	0.47
1:A:2101:UNK:HG2	1:A:2102:UNK:N	2.29	0.47
1:A:782:ARG:HD3	1:A:853:LEU:HD22	1.97	0.47
1:A:713:ALA:O	1:A:868:ARG:NH2	2.48	0.47
1:B:1672:GLN:HB3	1:B:1672:GLN:HE21	1.58	0.47
1:B:2630:ASP:HB3	1:B:2633:VAL:HG23	1.97	0.47
1:B:2926:SER:HB3	1:B:2976:TRP:HH2	1.79	0.47
1:C:1625:LEU:HD11	1:C:1660:LEU:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:210:VAL:HG22	1:C:287:PHE:CD1	2.50	0.47
1:C:832:ASP:O	1:C:836:VAL:HG23	2.14	0.47
1:C:670:GLY:HA3	1:C:899:ALA:HB2	1.96	0.47
1:C:941:UNK:HG3	1:C:942:UNK:N	2.30	0.47
1:A:1010:UNK:HG2	1:A:1017:ILE:HB	1.96	0.47
1:A:1467:VAL:HA	1:A:1605:LYS:HD2	1.96	0.47
1:A:2210:VAL:HB	1:A:2277:ILE:HD11	1.96	0.47
1:A:301:LEU:HD13	1:A:330:LEU:HD22	1.96	0.47
1:A:966:PRO:O	1:A:970:ILE:N	2.48	0.47
1:B:2125:UNK:HA	1:B:2128:UNK:CG	2.45	0.47
1:B:2450:UNK:HG1	1:B:3016:ALA:CB	2.17	0.47
1:B:2762:VAL:HG22	1:B:2822:LEU:HB2	1.96	0.47
1:B:778:THR:HG21	1:B:854:GLY:HA3	1.97	0.47
1:B:868:ARG:HB3	1:B:872:ARG:NH1	2.28	0.47
1:B:931:UNK:HG2	1:B:933:UNK:HG2	1.92	0.47
1:C:1276:GLN:HE21	1:C:1292:LEU:HD13	1.79	0.47
1:C:2086:UNK:CA	1:C:2089:UNK:HG3	2.43	0.47
1:C:2376:LEU:HD22	1:C:2392:VAL:HG21	1.97	0.47
1:C:2681:THR:O	1:C:2764:ALA:HA	2.15	0.47
1:C:803:GLU:OE1	1:C:2431:UNK:CG	2.62	0.47
1:C:931:UNK:CG	1:C:934:UNK:HG3	2.44	0.47
1:A:2785:ALA:HB1	1:A:2809:LEU:HG	1.97	0.47
1:A:803:GLU:OE1	1:A:2431:UNK:CG	2.62	0.47
1:A:808:ALA:HB3	1:A:811:ASP:HB2	1.96	0.47
1:A:832:ASP:O	1:A:836:VAL:HG23	2.14	0.47
1:B:1010:UNK:HG2	1:B:1017:ILE:HB	1.96	0.47
1:B:1457:GLU:OE2	1:B:1614:TYR:OH	2.30	0.47
1:B:210:VAL:HG22	1:B:287:PHE:CD1	2.50	0.47
1:B:2554:ALA:HB1	1:B:2614:LYS:HD2	1.96	0.47
1:B:585:HIS:HD2	1:B:586:SER:H	1.62	0.47
1:B:782:ARG:HD3	1:B:853:LEU:HD22	1.97	0.47
1:B:713:ALA:O	1:B:868:ARG:NH2	2.48	0.47
1:B:941:UNK:HG3	1:B:942:UNK:N	2.30	0.47
1:A:198:ILE:HG12	1:C:1087:PHE:CE1	2.50	0.47
1:C:2291:LEU:HD21	1:C:2332:LEU:HD22	1.95	0.47
1:A:141:ALA:O	1:A:145:MET:HB2	2.15	0.47
1:A:2482:GLU:HG2	1:A:2956:PRO:HB3	1.97	0.47
1:B:1723:GLU:C	1:B:1725:SER:H	2.18	0.47
1:B:2843:GLN:HG2	1:B:2845:PHE:CZ	2.49	0.47
1:B:301:LEU:HD13	1:B:330:LEU:HD22	1.96	0.47
1:B:992:UNK:CG	1:B:996:UNK:HG2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1111:PHE:HE1	1:C:1129:LEU:HD11	1.78	0.47
1:C:2101:UNK:HG2	1:C:2102:UNK:N	2.29	0.47
1:C:2125:UNK:HA	1:C:2128:UNK:CG	2.44	0.47
1:C:2427:UNK:HG2	1:C:2427:UNK:O	2.15	0.47
1:C:3080:ARG:NH1	1:C:3080:ARG:CG	2.72	0.47
1:C:836:VAL:HG12	1:C:837:VAL:N	2.29	0.47
1:A:1237:ARG:CZ	1:B:95:PRO:HB2	2.46	0.46
1:A:2058:ASP:N	1:A:2058:ASP:OD1	2.46	0.46
1:A:836:VAL:HG12	1:A:837:VAL:N	2.29	0.46
1:B:1467:VAL:HA	1:B:1605:LYS:HD2	1.96	0.46
1:B:836:VAL:HG12	1:B:837:VAL:N	2.29	0.46
1:B:94:ARG:HG3	1:B:95:PRO:HD3	1.98	0.46
1:B:966:PRO:O	1:B:970:ILE:N	2.48	0.46
1:B:997:UNK:HB1	1:B:1009:UNK:CG	2.44	0.46
1:C:1590:VAL:HG11	1:C:1671:TRP:CE2	2.50	0.46
1:C:2104:UNK:HA	1:C:2107:UNK:CG	2.46	0.46
1:C:2210:VAL:HB	1:C:2277:ILE:HD11	1.97	0.46
1:C:2252:VAL:HG13	1:C:2255:ARG:HH21	1.81	0.46
1:C:222:LEU:HD21	1:C:236:VAL:HA	1.97	0.46
1:A:2077:UNK:CG	1:A:2079:UNK:HG3	2.41	0.46
1:A:2096:UNK:C	1:A:2099:UNK:HG3	2.43	0.46
1:A:778:THR:HG21	1:A:854:GLY:HA3	1.97	0.46
1:A:670:GLY:HA3	1:A:899:ALA:HB2	1.96	0.46
1:A:941:UNK:HG3	1:A:942:UNK:N	2.30	0.46
1:B:2961:LEU:HD22	1:B:2976:TRP:CD1	2.51	0.46
1:B:518:ASP:HA	1:B:543:GLY:O	2.15	0.46
1:C:1508:ILE:HB	1:C:1562:ARG:HD3	1.97	0.46
1:C:2096:UNK:C	1:C:2099:UNK:HG3	2.43	0.46
1:C:2352:ILE:HG12	1:C:2412:ALA:HB1	1.96	0.46
1:C:501:VAL:HA	1:C:504:LYS:HE2	1.96	0.46
1:C:656:THR:HG1	1:C:880:HIS:CE1	2.30	0.46
1:C:84:GLU:HB2	1:C:85:PRO:HD3	1.97	0.46
1:C:713:ALA:O	1:C:868:ARG:NH2	2.48	0.46
1:C:931:UNK:HG2	1:C:933:UNK:HG2	1.92	0.46
1:A:171:LYS:HE3	1:A:173:ALA:HB3	1.96	0.46
1:A:2252:VAL:HG13	1:A:2255:ARG:HH21	1.80	0.46
1:A:2352:ILE:HG12	1:A:2412:ALA:HB1	1.96	0.46
1:A:2681:THR:O	1:A:2764:ALA:HA	2.15	0.46
1:A:210:VAL:HG22	1:A:287:PHE:CD1	2.50	0.46
1:A:2978:ARG:NH1	1:A:2979:GLU:OE2	2.49	0.46
1:A:365:ALA:O	1:A:369:ARG:N	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:361:THR:HG21	1:A:377:PRO:HG3	1.95	0.46
1:B:1001:UNK:O	1:B:1005:UNK:HB2	2.16	0.46
1:B:1319:ASP:HB2	1:B:1342:ARG:NH1	2.31	0.46
1:B:2118:UNK:HG2	1:B:2119:UNK:N	2.28	0.46
1:B:205:PRO:CD	1:B:289:PRO:HB3	2.46	0.46
1:B:996:UNK:HA	1:B:1010:UNK:HA	1.97	0.46
1:C:2434:UNK:HG3	1:C:2523:GLU:O	2.14	0.46
1:C:2884:ASP:HA	1:C:2916:ARG:NH1	2.29	0.46
1:C:982:UNK:CG	1:C:983:UNK:N	2.76	0.46
1:A:1612:GLY:N	1:A:1623:PHE:O	2.48	0.46
1:A:1699:ARG:HG3	1:A:1730:GLU:HB3	1.97	0.46
1:A:2461:VAL:HG21	1:A:2751:VAL:HG13	1.96	0.46
1:A:518:ASP:HA	1:A:543:GLY:O	2.15	0.46
1:A:683:GLY:CA	1:A:700:ASN:HB2	2.44	0.46
1:A:84:GLU:HB2	1:A:85:PRO:HD3	1.98	0.46
1:B:1634:ARG:HH11	1:B:1639:ALA:N	2.08	0.46
1:B:2252:VAL:HG13	1:B:2255:ARG:HH21	1.81	0.46
1:B:2736:PRO:HG2	1:B:2746:SER:HA	1.95	0.46
1:C:2348:GLN:O	1:C:2416:MET:HG3	2.15	0.46
1:C:518:ASP:HA	1:C:543:GLY:O	2.15	0.46
1:A:1325:LEU:HD11	1:A:1343:LEU:HD22	1.98	0.46
1:A:1346:PRO:HG2	1:A:1699:ARG:HD3	1.98	0.46
1:A:2961:LEU:HD22	1:A:2976:TRP:CD1	2.51	0.46
1:B:1237:ARG:CZ	1:C:95:PRO:HB2	2.46	0.46
1:B:1276:GLN:HE21	1:B:1292:LEU:HD13	1.79	0.46
1:B:1699:ARG:HG3	1:B:1730:GLU:HB3	1.97	0.46
1:B:2554:ALA:HB1	1:B:2614:LYS:HZ2	1.78	0.46
1:B:2543:PHE:HA	1:B:2624:GLN:HE22	1.81	0.46
1:B:768:LYS:HA	1:B:775:LEU:HD11	1.97	0.46
1:C:2252:VAL:HG22	1:C:2255:ARG:NH2	2.30	0.46
1:C:745:THR:HG22	1:C:747:LEU:H	1.80	0.46
1:C:782:ARG:HD3	1:C:853:LEU:HD22	1.97	0.46
1:B:2104:UNK:HA	1:B:2107:UNK:CG	2.46	0.46
1:C:1325:LEU:HD11	1:C:1343:LEU:HD22	1.98	0.46
1:C:141:ALA:O	1:C:145:MET:HB2	2.15	0.46
1:C:1699:ARG:HG3	1:C:1730:GLU:HB3	1.97	0.46
1:C:2361:VAL:HG21	1:C:2401:ILE:HD11	1.98	0.46
1:C:406:THR:OG1	1:C:418:GLU:OE1	2.34	0.46
1:C:534:ASP:O	1:C:538:GLU:HG3	2.16	0.46
1:C:778:THR:HG21	1:C:854:GLY:HA3	1.97	0.46
1:A:1072:TRP:CD1	1:A:1097:VAL:HG22	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1590:VAL:HG11	1:A:1671:TRP:CE2	2.50	0.46
1:A:3065:PRO:O	1:A:3069:GLN:N	2.42	0.46
1:A:575:HIS:CD2	1:A:644:LEU:HD22	2.49	0.46
1:B:1072:TRP:CD1	1:B:1097:VAL:HG22	2.51	0.46
1:B:141:ALA:O	1:B:145:MET:HB2	2.15	0.46
1:B:2210:VAL:HB	1:B:2277:ILE:HD11	1.96	0.46
1:B:2348:GLN:O	1:B:2416:MET:HG3	2.15	0.46
1:B:406:THR:OG1	1:B:418:GLU:OE1	2.34	0.46
1:B:540:ASN:ND2	1:B:544:ILE:HG13	2.30	0.46
1:B:606:ASN:H	1:B:606:ASN:HD22	1.62	0.46
1:B:84:GLU:HB2	1:B:85:PRO:HD3	1.97	0.46
1:C:1001:UNK:O	1:C:1005:UNK:HB2	2.16	0.46
1:C:1094:THR:O	1:C:1288:PRO:HG2	2.15	0.46
1:C:1319:ASP:HB2	1:C:1342:ARG:NH1	2.31	0.46
1:C:1346:PRO:HG2	1:C:1699:ARG:HD3	1.98	0.46
1:C:2482:GLU:HG2	1:C:2956:PRO:HB3	1.97	0.46
1:C:2957:PRO:HB3	1:C:2979:GLU:C	2.36	0.46
1:A:1205:UNK:HG2	1:A:1206:UNK:N	2.30	0.46
1:A:1276:GLN:HE21	1:A:1292:LEU:HD13	1.79	0.46
1:A:1212:UNK:CG	1:A:1342:ARG:HH21	2.17	0.46
1:A:167:ALA:HB3	1:A:178:LEU:HD21	1.98	0.46
1:A:2104:UNK:HA	1:A:2107:UNK:CG	2.46	0.46
1:A:2376:LEU:HD22	1:A:2392:VAL:HG21	1.97	0.46
1:A:2630:ASP:HB3	1:A:2633:VAL:HG23	1.97	0.46
1:A:2957:PRO:HB3	1:A:2979:GLU:C	2.36	0.46
1:A:501:VAL:HA	1:A:504:LYS:HE2	1.96	0.46
1:A:277:LEU:HD22	1:A:676:GLY:O	2.16	0.46
1:B:2957:PRO:HB3	1:B:2979:GLU:C	2.36	0.46
1:B:2978:ARG:NH1	1:B:2979:GLU:OE2	2.49	0.46
1:C:996:UNK:HA	1:C:1010:UNK:HA	1.97	0.46
1:C:94:ARG:HG3	1:C:95:PRO:HD3	1.98	0.46
1:A:1455:VAL:HB	1:A:1480:ARG:HH12	1.80	0.46
1:A:2212:TRP:HA	1:A:2229:LYS:HB3	1.98	0.46
1:A:2252:VAL:HG22	1:A:2255:ARG:NH2	2.30	0.46
1:A:2610:ARG:NH1	1:A:2700:LEU:HD21	2.31	0.46
1:A:2773:GLU:HA	1:A:2776:ILE:HG22	1.97	0.46
1:A:2790:MET:SD	1:A:2800:PHE:HB2	2.56	0.46
1:A:647:THR:HG22	1:A:901:ILE:HD11	1.96	0.46
1:B:111:GLU:HB2	1:B:112:PRO:HD3	1.98	0.46
1:B:1205:UNK:HG2	1:B:1206:UNK:N	2.31	0.46
1:B:1304:LYS:O	1:B:1307:ASP:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2619:ARG:NH1	1:B:2779:GLY:HA2	2.31	0.46
1:B:984:UNK:HG1	1:B:987:UNK:CG	2.46	0.46
1:C:111:GLU:HB2	1:C:112:PRO:HD3	1.98	0.46
1:C:1205:UNK:HG2	1:C:1206:UNK:N	2.30	0.46
1:A:95:PRO:HB2	1:C:1237:ARG:CZ	2.45	0.46
1:C:2619:ARG:NH1	1:C:2779:GLY:HA2	2.31	0.46
1:C:2946:LEU:HD22	1:C:2994:VAL:HG23	1.98	0.46
1:A:1087:PHE:CE1	1:B:198:ILE:HG12	2.51	0.46
1:A:2125:UNK:HA	1:A:2128:UNK:CG	2.45	0.46
1:A:2123:UNK:HA	1:A:2126:UNK:HG3	1.97	0.46
1:A:2879:LEU:HD13	1:A:3009:VAL:HG11	1.98	0.46
1:A:205:PRO:CD	1:A:289:PRO:HB3	2.46	0.46
1:A:745:THR:HG22	1:A:747:LEU:H	1.80	0.46
1:A:868:ARG:HD3	1:A:872:ARG:HH12	1.81	0.46
1:B:2770:LEU:HB3	1:B:2815:GLN:HB3	1.97	0.46
1:C:1072:TRP:CD1	1:C:1097:VAL:HG22	2.51	0.46
1:C:1304:LYS:O	1:C:1307:ASP:HB2	2.16	0.46
1:B:1087:PHE:CE1	1:C:198:ILE:HG12	2.51	0.46
1:C:2234:PRO:HB2	1:C:2287:LEU:HD13	1.98	0.46
1:C:2879:LEU:HD13	1:C:3009:VAL:HG11	1.98	0.46
1:C:408:VAL:CG1	1:C:943:UNK:HG1	2.46	0.46
1:A:111:GLU:HB2	1:A:112:PRO:HD3	1.98	0.45
1:A:2100:UNK:C	1:A:2103:UNK:HG3	2.31	0.45
1:A:2137:GLU:O	1:A:2163:THR:N	2.30	0.45
1:A:2891:LYS:HG3	1:A:2924:ILE:HD13	1.98	0.45
1:B:1094:THR:O	1:B:1288:PRO:HG2	2.15	0.45
1:B:1325:LEU:HD11	1:B:1343:LEU:HD22	1.98	0.45
1:B:2094:UNK:HG1	1:B:2096:UNK:HG3	1.90	0.45
1:B:2773:GLU:HA	1:B:2776:ILE:HG22	1.97	0.45
1:B:2672:TRP:CD1	1:B:2831:MET:HG2	2.52	0.45
1:B:2889:ILE:HD11	1:B:2922:LEU:HD22	1.98	0.45
1:B:793:ARG:HA	1:B:2435:UNK:HG1	1.97	0.45
1:A:1003:UNK:CG	1:A:1004:UNK:N	2.53	0.45
1:A:1094:THR:O	1:A:1288:PRO:HG2	2.15	0.45
1:A:1319:ASP:HB2	1:A:1342:ARG:NH1	2.31	0.45
1:A:1450:ALA:N	1:A:1613:ARG:O	2.48	0.45
1:A:2543:PHE:HA	1:A:2624:GLN:HE22	1.81	0.45
1:A:793:ARG:HA	1:A:2435:UNK:HG1	1.98	0.45
1:A:996:UNK:HA	1:A:1010:UNK:HA	1.97	0.45
1:B:1702:GLU:OE1	1:B:1712:ALA:N	2.49	0.45
1:B:2234:PRO:HB2	1:B:2287:LEU:HD13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2482:GLU:HG2	1:B:2956:PRO:HB3	1.97	0.45
1:B:2946:LEU:HD22	1:B:2994:VAL:HG23	1.98	0.45
1:C:1462:ALA:HB2	1:C:1468:TYR:HE1	1.81	0.45
1:C:2212:TRP:HA	1:C:2229:LYS:HB3	1.98	0.45
1:C:2961:LEU:HD22	1:C:2976:TRP:CD1	2.51	0.45
1:C:47:ALA:O	1:C:353:ASP:HA	2.17	0.45
1:C:540:ASN:ND2	1:C:544:ILE:HG13	2.30	0.45
1:C:277:LEU:HD22	1:C:676:GLY:O	2.16	0.45
1:C:683:GLY:CA	1:C:700:ASN:HB2	2.44	0.45
1:A:1133:VAL:O	1:A:1193:ALA:N	2.42	0.45
1:A:1462:ALA:HB2	1:A:1468:TYR:HE1	1.81	0.45
1:A:1483:LYS:O	1:A:1487:ILE:HG23	2.17	0.45
1:A:2619:ARG:NH1	1:A:2779:GLY:HA2	2.31	0.45
1:A:944:UNK:O	1:A:944:UNK:CG	2.59	0.45
1:A:94:ARG:HG3	1:A:95:PRO:HD3	1.98	0.45
1:B:1352:PHE:HA	1:B:1353:PRO:HD3	1.72	0.45
1:B:1462:ALA:HB2	1:B:1468:TYR:HE1	1.81	0.45
1:B:2891:LYS:HG3	1:B:2924:ILE:HD13	1.99	0.45
1:B:351:ILE:HB	1:B:375:ILE:HG12	1.99	0.45
1:C:2070:LEU:O	1:C:2074:GLU:HG3	2.16	0.45
1:C:2472:TYR:CZ	1:C:2930:LEU:HD22	2.52	0.45
1:C:205:PRO:CD	1:C:289:PRO:HB3	2.46	0.45
1:C:381:ARG:O	1:C:384:GLN:HG2	2.17	0.45
1:C:746:TYR:HB2	1:C:833:ALA:HB1	1.99	0.45
1:C:984:UNK:HG1	1:C:987:UNK:CG	2.46	0.45
1:A:222:LEU:HD21	1:A:236:VAL:HA	1.97	0.45
1:A:2246:ALA:N	1:A:2255:ARG:NH1	2.64	0.45
1:A:2672:TRP:CD1	1:A:2831:MET:HG2	2.52	0.45
1:A:2845:PHE:HD2	1:A:2860:ALA:HA	1.82	0.45
1:A:2889:ILE:HD11	1:A:2922:LEU:HD22	1.98	0.45
1:A:747:LEU:HD22	1:A:751:ARG:CZ	2.47	0.45
1:A:784:GLU:OE2	1:A:816:LEU:HD21	2.16	0.45
1:B:1001:UNK:HG1	1:B:1018:ARG:HH21	1.80	0.45
1:B:1346:PRO:HG2	1:B:1699:ARG:HD3	1.98	0.45
1:B:2096:UNK:C	1:B:2099:UNK:HG3	2.43	0.45
1:B:2769:ASP:OD1	1:B:2770:LEU:N	2.49	0.45
1:B:2785:ALA:HB1	1:B:2809:LEU:HG	1.97	0.45
1:B:2879:LEU:HD13	1:B:3009:VAL:HG11	1.98	0.45
1:B:47:ALA:O	1:B:353:ASP:HA	2.17	0.45
1:C:1212:UNK:HG2	1:C:1342:ARG:CZ	2.47	0.45
1:C:1483:LYS:O	1:C:1487:ILE:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:585:HIS:CB	1:C:694:ASP:HB2	2.47	0.45
1:C:684:MET:HG3	1:C:895:THR:HA	1.98	0.45
1:A:222:LEU:HD13	1:A:248:ILE:HD12	1.99	0.45
1:A:2427:UNK:HG2	1:A:2427:UNK:O	2.15	0.45
1:A:2770:LEU:HB3	1:A:2815:GLN:HB3	1.97	0.45
1:A:381:ARG:O	1:A:384:GLN:HG2	2.17	0.45
1:A:544:ILE:O	1:A:546:HIS:N	2.41	0.45
1:A:684:MET:HG3	1:A:895:THR:HA	1.98	0.45
1:B:207:MET:HG3	1:B:292:VAL:HB	1.98	0.45
1:B:2246:ALA:N	1:B:2255:ARG:NH1	2.64	0.45
1:B:746:TYR:HB2	1:B:833:ALA:HB1	1.99	0.45
1:B:868:ARG:HD3	1:B:872:ARG:HH12	1.81	0.45
1:C:2790:MET:SD	1:C:2800:PHE:HB2	2.56	0.45
1:C:2785:ALA:HB1	1:C:2809:LEU:HG	1.97	0.45
1:C:351:ILE:HB	1:C:375:ILE:HG12	1.99	0.45
1:C:511:ARG:CB	1:C:540:ASN:HB2	2.46	0.45
1:C:768:LYS:HA	1:C:775:LEU:HD11	1.97	0.45
1:A:1001:UNK:O	1:A:1005:UNK:HB2	2.15	0.45
1:A:1702:GLU:OE1	1:A:1712:ALA:N	2.49	0.45
1:A:2070:LEU:O	1:A:2074:GLU:HG3	2.16	0.45
1:A:534:ASP:O	1:A:538:GLU:HG3	2.16	0.45
1:A:540:ASN:ND2	1:A:544:ILE:HG13	2.30	0.45
1:A:408:VAL:CG1	1:A:943:UNK:HG1	2.46	0.45
1:B:1519:VAL:HG13	1:B:1530:LEU:HD23	1.98	0.45
1:B:1450:ALA:N	1:B:1613:ARG:O	2.48	0.45
1:B:195:ARG:NH1	1:B:198:ILE:HD12	2.31	0.45
1:B:585:HIS:CB	1:B:694:ASP:HB2	2.47	0.45
1:C:1488:VAL:HB	1:C:1579:VAL:HG22	1.99	0.45
1:C:1553:ALA:O	1:C:1557:GLU:HG2	2.17	0.45
1:C:167:ALA:HB3	1:C:178:LEU:HD21	1.98	0.45
1:C:2630:ASP:HB3	1:C:2633:VAL:HG23	1.97	0.45
1:A:1072:TRP:HE1	1:A:1077:VAL:HG22	1.80	0.45
1:A:2080:UNK:HG2	1:A:2083:UNK:CG	2.45	0.45
1:A:2361:VAL:HG21	1:A:2401:ILE:HD11	1.98	0.45
1:A:406:THR:OG1	1:A:418:GLU:OE1	2.34	0.45
1:A:768:LYS:HA	1:A:775:LEU:HD11	1.98	0.45
1:B:1488:VAL:HB	1:B:1579:VAL:HG22	1.99	0.45
1:B:1605:LYS:H	1:B:1658:LYS:HE2	1.82	0.45
1:B:1996:PRO:O	1:B:2000:LEU:N	2.41	0.45
1:B:2137:GLU:O	1:B:2163:THR:N	2.30	0.45
1:B:2212:TRP:HA	1:B:2229:LYS:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2452:UNK:CG	1:B:2453:UNK:N	2.73	0.45
1:B:2790:MET:SD	1:B:2800:PHE:HB2	2.56	0.45
1:B:2452:UNK:HA	1:B:3017:ALA:HA	1.99	0.45
1:B:3080:ARG:CG	1:B:3080:ARG:NH1	2.72	0.45
1:B:534:ASP:O	1:B:538:GLU:HG3	2.16	0.45
1:C:1684:ASP:HA	1:C:1687:PHE:HD2	1.82	0.45
1:C:747:LEU:HD22	1:C:751:ARG:CZ	2.47	0.45
1:C:763:SER:HB3	1:C:766:ASP:HB2	1.99	0.45
1:A:195:ARG:NH1	1:A:198:ILE:HD12	2.31	0.45
1:B:1212:UNK:HG2	1:B:1342:ARG:CZ	2.47	0.45
1:B:2361:VAL:HG21	1:B:2401:ILE:HD11	1.98	0.45
1:B:2845:PHE:HD2	1:B:2860:ALA:HA	1.81	0.45
1:B:763:SER:HB3	1:B:766:ASP:HB2	1.99	0.45
1:C:195:ARG:NH1	1:C:198:ILE:HD12	2.31	0.45
1:C:1996:PRO:O	1:C:2000:LEU:N	2.41	0.45
1:C:2093:UNK:HG1	1:C:2132:UNK:HB1	1.95	0.45
1:C:2114:UNK:HA	1:C:2117:UNK:HG3	1.99	0.45
1:C:222:LEU:HD13	1:C:248:ILE:HD12	1.99	0.45
1:C:2610:ARG:NH1	1:C:2700:LEU:HD21	2.31	0.45
1:C:2769:ASP:OD1	1:C:2770:LEU:N	2.49	0.45
1:C:2770:LEU:HB3	1:C:2815:GLN:HB3	1.97	0.45
1:C:2845:PHE:HD2	1:C:2860:ALA:HA	1.81	0.45
1:C:784:GLU:OE2	1:C:816:LEU:HD21	2.16	0.45
1:A:1605:LYS:H	1:A:1658:LYS:HE2	1.82	0.45
1:A:351:ILE:HB	1:A:375:ILE:HG12	1.99	0.45
1:B:1171:PRO:HA	1:B:1191:ARG:HG2	1.99	0.45
1:B:1284:GLY:HA2	1:B:1343:LEU:HD11	1.99	0.45
1:B:167:ALA:HB3	1:B:178:LEU:HD21	1.98	0.45
1:B:222:LEU:HD21	1:B:236:VAL:HA	1.97	0.45
1:B:2610:ARG:NH1	1:B:2700:LEU:HD21	2.31	0.45
1:B:336:TRP:CH2	1:B:360:LEU:HD21	2.52	0.45
1:B:784:GLU:OE2	1:B:816:LEU:HD21	2.16	0.45
1:B:997:UNK:O	1:B:1009:UNK:HG3	2.17	0.45
1:C:1072:TRP:HE1	1:C:1077:VAL:HG22	1.80	0.45
1:C:1634:ARG:NH1	1:C:1639:ALA:N	2.65	0.45
1:A:2591:ARG:HH12	1:C:2014:SER:H	1.65	0.45
1:C:2296:ASN:HB3	1:C:2299:MET:SD	2.57	0.45
1:C:2672:TRP:CD1	1:C:2831:MET:HG2	2.52	0.45
1:C:2845:PHE:CD2	1:C:2860:ALA:HA	2.52	0.45
1:C:544:ILE:O	1:C:546:HIS:N	2.40	0.45
1:A:997:UNK:O	1:A:1009:UNK:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1488:VAL:HB	1:A:1579:VAL:HG22	1.99	0.45
1:A:2946:LEU:HD22	1:A:2994:VAL:HG23	1.98	0.45
1:A:799:PHE:CZ	1:A:2433:UNK:CG	2.99	0.45
1:A:746:TYR:HB2	1:A:833:ALA:HB1	1.99	0.45
1:A:2014:SER:H	1:B:2591:ARG:HH12	1.65	0.45
1:B:2619:ARG:HH12	1:B:2779:GLY:HA2	1.81	0.45
1:B:381:ARG:O	1:B:384:GLN:HG2	2.17	0.45
1:B:544:ILE:O	1:B:546:HIS:N	2.41	0.45
1:C:1001:UNK:HG1	1:C:1018:ARG:HH21	1.80	0.45
1:C:1581:PHE:HB2	1:C:1586:LEU:HD22	1.99	0.45
1:C:2246:ALA:N	1:C:2255:ARG:NH1	2.64	0.45
1:C:2246:ALA:N	1:C:2255:ARG:HH12	2.15	0.45
1:C:2800:PHE:CE1	1:C:2812:LEU:HD22	2.50	0.45
1:C:2978:ARG:NH1	1:C:2979:GLU:OE2	2.49	0.45
1:C:868:ARG:HD3	1:C:872:ARG:HH12	1.81	0.45
1:A:999:UNK:C	1:A:1007:UNK:HG3	2.46	0.44
1:A:1212:UNK:HG2	1:A:1342:ARG:CZ	2.47	0.44
1:A:2845:PHE:CD2	1:A:2860:ALA:HA	2.52	0.44
1:A:210:VAL:HG22	1:A:287:PHE:HD1	1.83	0.44
1:A:984:UNK:HG1	1:A:987:UNK:CG	2.46	0.44
1:B:1285:LYS:HB3	1:B:1286:PRO:HD2	1.99	0.44
1:B:2300:PHE:CZ	1:B:2398:LEU:HB3	2.52	0.44
1:B:2427:UNK:O	1:B:2427:UNK:HG2	2.15	0.44
1:B:2891:LYS:HZ2	1:B:2903:GLU:HG2	1.82	0.44
1:B:664:LEU:HB3	1:B:701:ALA:HB1	1.99	0.44
1:B:799:PHE:CZ	1:B:2433:UNK:CG	2.99	0.44
1:C:997:UNK:O	1:C:1009:UNK:HG3	2.18	0.44
1:C:1702:GLU:OE1	1:C:1712:ALA:N	2.49	0.44
1:C:2891:LYS:HG3	1:C:2924:ILE:HD13	1.98	0.44
1:C:365:ALA:O	1:C:369:ARG:N	2.42	0.44
1:C:664:LEU:HB3	1:C:701:ALA:HB1	1.99	0.44
1:A:1304:LYS:O	1:A:1307:ASP:HB2	2.16	0.44
1:A:1634:ARG:NH1	1:A:1639:ALA:N	2.65	0.44
1:A:207:MET:HG3	1:A:292:VAL:HB	1.98	0.44
1:B:1612:GLY:N	1:B:1623:PHE:O	2.48	0.44
1:B:210:VAL:HG22	1:B:287:PHE:HD1	1.82	0.44
1:B:2299:MET:H	1:B:2299:MET:HG2	1.68	0.44
1:B:550:LYS:HD3	1:B:577:GLU:OE2	2.17	0.44
1:B:277:LEU:HD22	1:B:676:GLY:O	2.16	0.44
1:B:999:UNK:HG2	1:B:1007:UNK:HG1	1.96	0.44
1:C:207:MET:HG3	1:C:292:VAL:HB	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:210:VAL:HG22	1:C:287:PHE:HD1	1.83	0.44
1:C:2300:PHE:CZ	1:C:2398:LEU:HB3	2.52	0.44
1:C:2543:PHE:HA	1:C:2624:GLN:HE22	1.81	0.44
1:C:2619:ARG:HH12	1:C:2779:GLY:HA2	1.81	0.44
1:C:2831:MET:HB3	1:C:2831:MET:HE2	1.88	0.44
1:C:2452:UNK:HA	1:C:3017:ALA:HA	1.98	0.44
1:C:671:THR:HB	1:C:682:ASN:CG	2.38	0.44
1:A:2120:UNK:O	1:A:2123:UNK:CG	2.66	0.44
1:A:2246:ALA:N	1:A:2255:ARG:HH12	2.15	0.44
1:A:2300:PHE:CZ	1:A:2398:LEU:HB3	2.52	0.44
1:A:2452:UNK:CG	1:A:2453:UNK:N	2.73	0.44
1:A:2555:SER:HA	1:A:2556:PRO:HD2	1.84	0.44
1:A:47:ALA:O	1:A:353:ASP:HA	2.17	0.44
1:A:511:ARG:CB	1:A:540:ASN:HB2	2.46	0.44
1:A:664:LEU:HB3	1:A:701:ALA:HB1	1.99	0.44
1:B:1350:TYR:CD1	1:B:1703:ILE:HD11	2.53	0.44
1:B:2080:UNK:HG2	1:B:2083:UNK:CG	2.45	0.44
1:B:2472:TYR:CZ	1:B:2930:LEU:HD22	2.52	0.44
1:B:747:LEU:HD22	1:B:751:ARG:CZ	2.47	0.44
1:B:684:MET:HG3	1:B:895:THR:HA	1.98	0.44
1:C:1171:PRO:HA	1:C:1191:ARG:HG2	1.99	0.44
1:C:2209:LEU:O	1:C:2213:VAL:HG23	2.18	0.44
1:C:2891:LYS:HZ2	1:C:2903:GLU:HG2	1.83	0.44
1:C:336:TRP:CH2	1:C:360:LEU:HD21	2.52	0.44
1:A:1519:VAL:HG13	1:A:1530:LEU:HD23	1.99	0.44
1:A:583:GLY:HA2	1:A:892:ILE:HD13	2.00	0.44
1:B:999:UNK:C	1:B:1007:UNK:HG3	2.47	0.44
1:B:1553:ALA:O	1:B:1557:GLU:HG2	2.17	0.44
1:B:2083:UNK:HA	1:B:2086:UNK:HG3	2.00	0.44
1:B:222:LEU:HD13	1:B:248:ILE:HD12	1.99	0.44
1:B:44:TYR:O	1:B:153:VAL:N	2.44	0.44
1:C:1605:LYS:H	1:C:1658:LYS:HE2	1.82	0.44
1:C:2080:UNK:HG2	1:C:2083:UNK:CG	2.45	0.44
1:C:2889:ILE:HD11	1:C:2922:LEU:HD22	1.98	0.44
1:C:583:GLY:HA2	1:C:892:ILE:HD13	2.00	0.44
1:A:1284:GLY:HA2	1:A:1343:LEU:HD11	1.99	0.44
1:A:1350:TYR:CD1	1:A:1703:ILE:HD11	2.53	0.44
1:A:2472:TYR:CZ	1:A:2930:LEU:HD22	2.52	0.44
1:A:2591:ARG:NH1	1:C:2014:SER:N	2.66	0.44
1:A:2619:ARG:HH12	1:A:2779:GLY:HA2	1.81	0.44
1:A:2452:UNK:HA	1:A:3017:ALA:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:475:LEU:HD23	1:A:475:LEU:HA	1.79	0.44
1:A:671:THR:HB	1:A:682:ASN:CG	2.38	0.44
1:B:1225:UNK:HG1	1:B:1283:ASP:CG	2.34	0.44
1:B:1503:ILE:HB	1:B:1542:TYR:HB2	2.00	0.44
1:B:2296:ASN:HB3	1:B:2299:MET:SD	2.57	0.44
1:B:2334:HIS:CD2	1:B:2391:LYS:HG3	2.50	0.44
1:A:2014:SER:N	1:B:2591:ARG:NH1	2.66	0.44
1:B:515:ALA:HA	1:B:516:PRO:HD3	1.84	0.44
1:C:1093:PRO:HB3	1:C:1277:HIS:CE1	2.52	0.44
1:C:970:ILE:HG23	1:C:992:UNK:HG1	2.00	0.44
1:A:2234:PRO:HB2	1:A:2287:LEU:HD13	1.98	0.44
1:A:2769:ASP:OD1	1:A:2770:LEU:N	2.49	0.44
1:B:1634:ARG:NH1	1:B:1639:ALA:N	2.65	0.44
1:B:1684:ASP:HA	1:B:1687:PHE:HD2	1.82	0.44
1:B:1723:GLU:O	1:B:1725:SER:N	2.51	0.44
1:B:2114:UNK:HA	1:B:2117:UNK:HG3	1.99	0.44
1:B:2246:ALA:N	1:B:2255:ARG:HH12	2.15	0.44
1:C:1350:TYR:CD1	1:C:1703:ILE:HD11	2.53	0.44
1:C:1723:GLU:O	1:C:1725:SER:N	2.51	0.44
1:C:2119:UNK:HG2	1:C:2120:UNK:N	2.33	0.44
1:C:2471:PRO:HA	1:C:2625:ILE:HA	2.00	0.44
1:C:2580:PHE:HE1	1:C:2603:ARG:HH21	1.66	0.44
1:C:793:ARG:HA	1:C:2435:UNK:HG1	1.97	0.44
1:A:412:ASP:H	1:A:1025:VAL:CG2	2.31	0.44
1:A:1705:VAL:O	1:A:1735:GLU:HB2	2.18	0.44
1:A:2296:ASN:HB3	1:A:2299:MET:SD	2.57	0.44
1:A:88:SER:HB3	1:A:314:THR:OG1	2.18	0.44
1:A:550:LYS:HD3	1:A:577:GLU:OE2	2.17	0.44
1:A:585:HIS:CB	1:A:694:ASP:HB2	2.47	0.44
1:A:657:THR:HB	1:A:662:LYS:HE3	2.00	0.44
1:B:1537:LEU:HD13	1:B:1541:GLN:HB2	2.00	0.44
1:B:2209:LEU:O	1:B:2213:VAL:HG23	2.18	0.44
1:B:2297:ARG:HH22	1:B:2391:LYS:HZ3	1.65	0.44
1:B:671:THR:HB	1:B:682:ASN:CG	2.38	0.44
1:B:782:ARG:NH1	1:B:857:VAL:HG22	2.33	0.44
1:B:944:UNK:CG	1:B:944:UNK:O	2.59	0.44
1:C:1284:GLY:HA2	1:C:1343:LEU:HD11	1.99	0.44
1:C:1537:LEU:HD13	1:C:1541:GLN:HB2	2.00	0.44
1:C:1582:HIS:HA	1:C:1674:ALA:O	2.18	0.44
1:B:2014:SER:H	1:C:2591:ARG:HH12	1.65	0.44
1:C:782:ARG:NH1	1:C:857:VAL:HG22	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:745:THR:OG1	1:C:834:GLU:O	2.19	0.44
1:A:1171:PRO:HA	1:A:1191:ARG:HG2	1.99	0.44
1:A:1581:PHE:HB2	1:A:1586:LEU:HD22	1.99	0.44
1:A:163:LEU:HD13	1:A:181:LEU:HD23	2.00	0.44
1:A:2013:LEU:HA	1:A:2013:LEU:HD23	1.87	0.44
1:A:2252:VAL:HG22	1:A:2255:ARG:HH21	1.82	0.44
1:A:763:SER:HB3	1:A:766:ASP:HB2	1.99	0.44
1:B:2845:PHE:CD2	1:B:2860:ALA:HA	2.52	0.44
1:B:408:VAL:CG1	1:B:943:UNK:HG1	2.46	0.44
1:C:2122:UNK:O	1:C:2125:UNK:CG	2.63	0.44
1:C:2334:HIS:CD2	1:C:2391:LYS:HG3	2.50	0.44
1:C:2958:ASN:HD22	1:C:2976:TRP:HE1	1.65	0.44
1:C:393:VAL:HG12	1:C:394:PRO:N	2.32	0.44
1:A:1553:ALA:O	1:A:1557:GLU:HG2	2.17	0.44
1:A:1684:ASP:HA	1:A:1687:PHE:HD2	1.82	0.44
1:A:2094:UNK:HG1	1:A:2096:UNK:HG3	1.90	0.44
1:B:1483:LYS:O	1:B:1487:ILE:HG23	2.17	0.44
1:B:2119:UNK:HG2	1:B:2120:UNK:N	2.33	0.44
1:B:2753:LYS:HA	1:B:2753:LYS:HD3	1.83	0.44
1:B:2462:VAL:HG13	1:B:2835:VAL:HG13	2.00	0.44
1:B:2958:ASN:HD22	1:B:2976:TRP:HE1	1.65	0.44
1:B:647:THR:OG1	2:B:4000:FMN:O3P	2.27	0.44
1:B:995:UNK:HB1	1:B:1011:UNK:HG2	1.99	0.44
1:C:1285:LYS:HB3	1:C:1286:PRO:HD2	1.99	0.44
1:C:1733:ASN:H	1:C:1737:ASP:HB2	1.83	0.44
1:C:550:LYS:HD3	1:C:577:GLU:OE2	2.17	0.44
1:C:857:VAL:HG13	1:C:859:PHE:H	1.83	0.44
1:A:1093:PRO:HB3	1:A:1277:HIS:CE1	2.52	0.43
1:A:1133:VAL:N	1:A:1193:ALA:O	2.48	0.43
1:A:1268:GLY:HA2	1:A:1271:LEU:HD12	1.99	0.43
1:A:1285:LYS:HB3	1:A:1286:PRO:HD2	1.99	0.43
1:A:1733:ASN:H	1:A:1737:ASP:HB2	1.83	0.43
1:A:2083:UNK:HA	1:A:2086:UNK:HG3	2.00	0.43
1:A:2297:ARG:HH22	1:A:2391:LYS:HZ3	1.66	0.43
1:A:2989:LEU:HA	1:A:2989:LEU:HD12	1.77	0.43
1:A:782:ARG:NH1	1:A:857:VAL:HG22	2.33	0.43
1:A:981:UNK:CG	1:A:987:UNK:C	2.96	0.43
1:B:1093:PRO:HB3	1:B:1277:HIS:CE1	2.52	0.43
1:B:2903:GLU:OE2	1:B:2995:THR:OG1	2.36	0.43
1:B:344:HIS:CD2	1:B:373:ILE:HG13	2.53	0.43
1:B:583:GLY:HA2	1:B:892:ILE:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:602:ARG:NH2	1:B:641:ASP:OD1	2.27	0.43
1:B:657:THR:HB	1:B:662:LYS:HE3	2.00	0.43
1:C:2120:UNK:O	1:C:2123:UNK:CG	2.65	0.43
1:C:2710:LEU:O	1:C:2713:VAL:HG22	2.18	0.43
1:C:931:UNK:HG3	1:C:934:UNK:HG3	2.00	0.43
1:A:3044:ALA:HB1	1:A:3050:PRO:HB3	2.00	0.43
1:A:336:TRP:CH2	1:A:360:LEU:HD21	2.52	0.43
1:A:602:ARG:NH2	1:A:641:ASP:OD1	2.27	0.43
1:A:695:ILE:HG22	1:A:697:GLU:HG3	2.01	0.43
1:A:982:UNK:CG	1:A:983:UNK:N	2.76	0.43
1:A:999:UNK:HG2	1:A:1007:UNK:HG1	1.96	0.43
1:B:2070:LEU:O	1:B:2074:GLU:HG3	2.16	0.43
1:B:2120:UNK:O	1:B:2123:UNK:CG	2.66	0.43
1:B:340:ILE:HD11	1:B:351:ILE:HD13	2.01	0.43
1:C:1133:VAL:O	1:C:1193:ALA:N	2.42	0.43
1:C:1163:ASP:HA	1:C:1168:ARG:HA	2.01	0.43
1:C:34:LEU:O	1:C:38:LEU:HG	2.18	0.43
1:C:874:ASP:OD2	1:C:877:TRP:CD1	2.72	0.43
1:A:2114:UNK:HA	1:A:2117:UNK:HG3	1.99	0.43
1:A:393:VAL:HG12	1:A:394:PRO:N	2.32	0.43
1:A:641:ASP:N	1:A:641:ASP:OD1	2.48	0.43
1:B:1705:VAL:O	1:B:1735:GLU:HB2	2.18	0.43
1:B:970:ILE:HG23	1:B:992:UNK:HG1	2.00	0.43
1:C:1268:GLY:HA2	1:C:1271:LEU:HD12	2.00	0.43
1:C:1612:GLY:N	1:C:1623:PHE:O	2.48	0.43
1:C:2462:VAL:HG13	1:C:2835:VAL:HG13	2.00	0.43
1:C:2180:LYS:HZ1	1:C:2962:ASP:HB3	1.82	0.43
1:C:981:UNK:HG2	1:C:988:UNK:HA	2.01	0.43
1:A:1582:HIS:HA	1:A:1674:ALA:O	2.18	0.43
1:A:2541:ARG:O	1:A:2621:VAL:HG13	2.18	0.43
1:A:341:THR:HG23	1:A:344:HIS:ND1	2.34	0.43
1:A:580:ARG:HD3	1:A:896:ALA:HB3	2.01	0.43
1:B:2580:PHE:HE1	1:B:2603:ARG:HH21	1.66	0.43
1:B:2541:ARG:O	1:B:2621:VAL:HG13	2.18	0.43
1:B:2710:LEU:O	1:B:2713:VAL:HG22	2.18	0.43
1:B:393:VAL:HG12	1:B:394:PRO:N	2.32	0.43
1:B:857:VAL:HG13	1:B:859:PHE:H	1.83	0.43
1:B:981:UNK:CG	1:B:987:UNK:C	2.96	0.43
1:C:2115:UNK:HA	1:C:2118:UNK:CG	2.49	0.43
1:C:657:THR:HB	1:C:662:LYS:HE3	2.00	0.43
1:A:1163:ASP:HA	1:A:1168:ARG:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1723:GLU:O	1:A:1725:SER:N	2.51	0.43
1:A:2209:LEU:O	1:A:2213:VAL:HG23	2.18	0.43
1:A:344:HIS:CD2	1:A:373:ILE:HG13	2.53	0.43
1:B:1268:GLY:HA2	1:B:1271:LEU:HD12	1.99	0.43
1:B:2092:UNK:CG	1:B:2092:UNK:O	2.64	0.43
1:B:2512:TRP:O	1:B:2520:LEU:HD12	2.19	0.43
1:B:2471:PRO:HA	1:B:2625:ILE:HA	2.00	0.43
1:B:516:PRO:HA	1:B:962:MET:SD	2.58	0.43
1:C:1519:VAL:HG13	1:C:1530:LEU:HD23	1.99	0.43
1:C:2095:UNK:C	1:C:2098:UNK:HG3	2.49	0.43
1:C:2706:PRO:O	1:C:2709:ILE:HG12	2.19	0.43
1:C:3044:ALA:HB1	1:C:3050:PRO:HB3	2.00	0.43
1:C:276:LYS:HB3	1:C:587:TRP:CH2	2.53	0.43
1:C:647:THR:N	2:C:4000:FMN:O3P	2.51	0.43
1:A:2297:ARG:HH12	1:A:2391:LYS:NZ	2.17	0.43
1:A:2462:VAL:HG13	1:A:2835:VAL:HG13	2.00	0.43
1:A:315:VAL:C	1:A:317:LEU:H	2.22	0.43
1:A:874:ASP:OD2	1:A:877:TRP:CD1	2.71	0.43
1:B:412:ASP:H	1:B:1025:VAL:CG2	2.31	0.43
1:B:1581:PHE:HB2	1:B:1586:LEU:HD22	1.99	0.43
1:B:2426:UNK:HG2	1:B:2426:UNK:O	2.18	0.43
1:B:2610:ARG:NH1	1:B:2700:LEU:HD11	2.25	0.43
1:B:315:VAL:C	1:B:317:LEU:H	2.22	0.43
1:B:276:LYS:HB3	1:B:587:TRP:CH2	2.53	0.43
1:C:999:UNK:C	1:C:1007:UNK:HG3	2.47	0.43
1:C:163:LEU:HD13	1:C:181:LEU:HD23	2.00	0.43
1:A:2591:ARG:HH12	1:C:2014:SER:N	2.16	0.43
1:C:2083:UNK:HA	1:C:2086:UNK:HG3	2.00	0.43
1:C:344:HIS:CD2	1:C:373:ILE:HG13	2.53	0.43
1:C:340:ILE:HD11	1:C:351:ILE:HD13	2.01	0.43
1:C:695:ILE:HG22	1:C:697:GLU:HG3	2.00	0.43
1:C:782:ARG:HH11	1:C:857:VAL:HG22	1.83	0.43
1:C:580:ARG:HD3	1:C:896:ALA:HB3	2.01	0.43
1:A:2471:PRO:HA	1:A:2625:ILE:HA	2.00	0.43
1:A:2891:LYS:HZ2	1:A:2903:GLU:HG2	1.83	0.43
1:A:857:VAL:HG13	1:A:859:PHE:H	1.83	0.43
1:A:931:UNK:HG3	1:A:934:UNK:HG3	2.01	0.43
1:B:1582:HIS:HA	1:B:1674:ALA:O	2.18	0.43
1:B:2786:ASP:OD2	1:B:2789:MET:HG2	2.19	0.43
1:B:658:SER:HB2	1:B:661:VAL:HG23	2.01	0.43
1:B:940:UNK:O	1:B:940:UNK:CG	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1705:VAL:O	1:C:1735:GLU:HB2	2.18	0.43
1:C:2903:GLU:OE2	1:C:2995:THR:OG1	2.36	0.43
1:C:88:SER:HB3	1:C:314:THR:OG1	2.18	0.43
1:A:1070:VAL:N	1:A:1152:PHE:O	2.52	0.43
1:A:2710:LEU:O	1:A:2713:VAL:HG22	2.18	0.43
1:A:2903:GLU:OE2	1:A:2995:THR:OG1	2.36	0.43
1:A:2958:ASN:HD22	1:A:2976:TRP:HE1	1.65	0.43
1:A:408:VAL:HG13	1:A:943:UNK:CG	2.48	0.43
1:A:276:LYS:HB3	1:A:587:TRP:CH2	2.53	0.43
1:B:1021:LEU:HB3	1:B:1034:GLU:HG2	2.01	0.43
1:B:1619:VAL:HA	1:B:1620:PRO:HD2	1.80	0.43
1:B:88:SER:HB3	1:B:314:THR:OG1	2.18	0.43
1:B:34:LEU:O	1:B:38:LEU:HG	2.18	0.43
1:B:488:ASN:OD1	1:B:523:SER:OG	2.34	0.43
1:B:647:THR:N	2:B:4000:FMN:O3P	2.51	0.43
1:B:856:PRO:HG2	1:B:874:ASP:HB2	2.00	0.43
1:B:931:UNK:HG3	1:B:934:UNK:HG3	2.01	0.43
1:B:981:UNK:HG2	1:B:988:UNK:HA	2.00	0.43
1:C:2064:ARG:HG2	1:C:2100:UNK:HG1	2.01	0.43
1:B:2014:SER:N	1:C:2591:ARG:NH1	2.66	0.43
1:C:2810:GLY:HA2	1:C:2896:THR:HG22	2.01	0.43
1:C:613:GLY:HA2	2:C:4000:FMN:O5'	2.19	0.43
1:A:1352:PHE:HA	1:A:1353:PRO:HD3	1.72	0.43
1:A:1503:ILE:HB	1:A:1542:TYR:HB2	2.00	0.43
1:A:2119:UNK:HG2	1:A:2120:UNK:N	2.34	0.43
1:A:2122:UNK:O	1:A:2125:UNK:CG	2.63	0.43
1:A:2299:MET:HG2	1:A:2299:MET:H	1.68	0.43
1:A:2530:TYR:O	1:A:2533:ALA:N	2.52	0.43
1:A:2706:PRO:O	1:A:2709:ILE:HG12	2.19	0.43
1:A:2786:ASP:OD2	1:A:2789:MET:HG2	2.19	0.43
1:A:34:LEU:O	1:A:38:LEU:HG	2.19	0.43
1:A:340:ILE:HD11	1:A:351:ILE:HD13	2.01	0.43
1:A:709:LEU:HD21	1:A:872:ARG:NE	2.34	0.43
1:A:981:UNK:HG2	1:A:988:UNK:HA	2.01	0.43
1:B:1133:VAL:N	1:B:1193:ALA:O	2.48	0.43
1:B:1317:GLY:O	1:B:1324:VAL:HG12	2.19	0.43
1:B:163:LEU:HD13	1:B:181:LEU:HD23	2.00	0.43
1:B:2665:THR:HA	1:B:2666:PRO:HD3	1.86	0.43
1:B:3044:ALA:HB1	1:B:3050:PRO:HB3	2.00	0.43
1:B:307:ILE:HG22	1:B:311:TRP:CE2	2.54	0.43
1:B:511:ARG:CB	1:B:540:ASN:HB2	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:780:ARG:NH1	1:B:817:GLU:OE2	2.52	0.43
1:B:782:ARG:HH11	1:B:857:VAL:HG22	1.83	0.43
1:C:2530:TYR:O	1:C:2533:ALA:N	2.52	0.43
1:C:475:LEU:HA	1:C:475:LEU:HD23	1.79	0.43
1:C:856:PRO:HG2	1:C:874:ASP:HB2	2.00	0.43
1:A:1084:THR:CG2	1:A:1274:ALA:HA	2.48	0.43
1:A:2092:UNK:O	1:A:2092:UNK:CG	2.64	0.43
1:A:2244:ARG:HG2	1:A:2245:VAL:N	2.34	0.43
1:A:2580:PHE:HE1	1:A:2603:ARG:HH21	1.66	0.43
1:A:2695:MET:HG3	1:A:2696:TYR:N	2.34	0.43
1:A:780:ARG:NH1	1:A:817:GLU:OE2	2.52	0.43
1:A:885:GLU:HG2	1:A:887:ASP:H	1.84	0.43
1:A:999:UNK:HG2	1:A:1007:UNK:HG3	1.96	0.43
1:B:2810:GLY:HA2	1:B:2896:THR:HG22	2.01	0.43
1:B:393:VAL:O	1:B:395:GLU:N	2.52	0.43
1:B:695:ILE:HG22	1:B:697:GLU:HG3	2.00	0.43
1:C:1117:ALA:HA	1:C:1120:GLU:HB2	2.01	0.43
1:C:2058:ASP:N	1:C:2058:ASP:OD1	2.46	0.43
1:C:2096:UNK:CG	1:C:2097:UNK:N	2.82	0.43
1:C:2137:GLU:O	1:C:2163:THR:N	2.30	0.43
1:C:2557:LEU:HB3	1:C:2613:ARG:HB2	2.01	0.43
1:A:1087:PHE:HD2	1:B:117:LYS:HZ1	1.67	0.42
1:A:2426:UNK:O	1:A:2426:UNK:HG2	2.18	0.42
1:A:782:ARG:HH11	1:A:857:VAL:HG22	1.83	0.42
1:B:1087:PHE:CZ	1:C:203:ASP:OD2	2.72	0.42
1:B:1733:ASN:H	1:B:1737:ASP:HB2	1.83	0.42
1:B:2244:ARG:HG2	1:B:2245:VAL:N	2.34	0.42
1:B:2957:PRO:HB3	1:B:2980:PRO:N	2.34	0.42
1:B:874:ASP:OD2	1:B:877:TRP:CD1	2.72	0.42
1:C:1084:THR:CG2	1:C:1274:ALA:HA	2.49	0.42
1:C:1317:GLY:O	1:C:1324:VAL:HG12	2.19	0.42
1:C:1660:LEU:HA	1:C:1660:LEU:HD23	1.86	0.42
1:C:2426:UNK:HG2	1:C:2426:UNK:O	2.18	0.42
1:B:2014:SER:N	1:C:2591:ARG:HH12	2.16	0.42
1:C:2541:ARG:O	1:C:2621:VAL:HG13	2.18	0.42
1:C:2889:ILE:HB	1:C:2924:ILE:HG12	2.01	0.42
1:C:78:GLU:HB2	1:C:176:VAL:HG21	2.01	0.42
1:A:1662:ARG:HG3	1:A:1663:LYS:N	2.34	0.42
1:A:2810:GLY:HA2	1:A:2896:THR:HG22	2.01	0.42
1:B:1117:ALA:HA	1:B:1120:GLU:HB2	2.01	0.42
1:B:1551:LEU:HA	1:B:1551:LEU:HD13	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2115:UNK:HA	1:B:2118:UNK:CG	2.48	0.42
1:B:2180:LYS:HZ1	1:B:2962:ASP:HB3	1.82	0.42
1:B:2296:ASN:ND2	1:B:2395:THR:HG21	2.34	0.42
1:B:2706:PRO:O	1:B:2709:ILE:HG12	2.19	0.42
1:B:2800:PHE:CE1	1:B:2812:LEU:HD22	2.50	0.42
1:B:2891:LYS:HZ1	1:B:2904:THR:N	2.17	0.42
1:B:355:GLY:HA2	1:B:356:PRO:HD3	1.86	0.42
1:C:1533:VAL:N	1:C:1543:ALA:O	2.52	0.42
1:C:1662:ARG:HG3	1:C:1663:LYS:N	2.34	0.42
1:C:2077:UNK:CG	1:C:2079:UNK:HG3	2.41	0.42
1:C:2141:VAL:HG22	1:C:2238:PHE:HD2	1.85	0.42
1:C:341:THR:HG23	1:C:344:HIS:ND1	2.34	0.42
1:C:516:PRO:HA	1:C:962:MET:SD	2.58	0.42
1:C:709:LEU:HD21	1:C:872:ARG:NE	2.34	0.42
1:A:1504:ARG:HA	1:A:1540:SER:O	2.19	0.42
1:A:2095:UNK:C	1:A:2098:UNK:HG3	2.49	0.42
1:A:211:THR:HB	1:A:286:VAL:HB	2.02	0.42
1:A:2141:VAL:HG22	1:A:2238:PHE:HD2	1.85	0.42
1:A:2808:ARG:HH21	1:A:2901:PRO:HD3	1.85	0.42
1:A:2957:PRO:HB3	1:A:2980:PRO:N	2.34	0.42
1:A:613:GLY:HA2	2:A:4000:FMN:O5'	2.19	0.42
1:B:2122:UNK:O	1:B:2125:UNK:CG	2.63	0.42
1:B:2252:VAL:HG22	1:B:2255:ARG:HH21	1.82	0.42
1:B:2911:ALA:O	1:B:2916:ARG:HB2	2.19	0.42
1:B:45:ALA:O	1:B:351:ILE:HA	2.20	0.42
1:C:1275:ALA:HB2	1:C:1311:PHE:CE2	2.55	0.42
1:C:307:ILE:HG22	1:C:311:TRP:CE2	2.54	0.42
1:C:438:THR:HA	1:C:880:HIS:CE1	2.51	0.42
1:C:999:UNK:HG2	1:C:1007:UNK:HG1	1.96	0.42
1:A:1106:CYS:SG	1:A:1174:VAL:HG11	2.60	0.42
1:A:1317:GLY:O	1:A:1324:VAL:HG12	2.19	0.42
1:A:2105:UNK:C	1:A:2108:UNK:HG3	2.34	0.42
1:A:516:PRO:HA	1:A:962:MET:SD	2.58	0.42
1:A:970:ILE:HG23	1:A:992:UNK:HG1	2.00	0.42
1:B:1163:ASP:HA	1:B:1168:ARG:HA	2.01	0.42
1:B:2095:UNK:C	1:B:2098:UNK:HG3	2.49	0.42
1:B:53:SER:HA	1:B:359:ILE:HG13	2.01	0.42
1:C:2252:VAL:HG22	1:C:2255:ARG:HH21	1.82	0.42
1:C:2584:ASP:O	1:C:2586:GLU:N	2.53	0.42
1:A:1021:LEU:HB3	1:A:1034:GLU:HG2	2.01	0.42
1:A:107:LEU:HD13	1:A:113:VAL:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1280:THR:O	1:A:1288:PRO:HB3	2.20	0.42
1:A:1399:ASN:HA	1:A:1400:PRO:HD3	1.86	0.42
1:A:1537:LEU:HD13	1:A:1541:GLN:HB2	2.00	0.42
1:A:2512:TRP:O	1:A:2520:LEU:HD12	2.19	0.42
1:B:1280:THR:O	1:B:1288:PRO:HB3	2.20	0.42
1:B:1660:LEU:HD23	1:B:1660:LEU:HA	1.85	0.42
1:A:1087:PHE:CZ	1:B:203:ASP:OD2	2.72	0.42
1:B:211:THR:HB	1:B:286:VAL:HB	2.01	0.42
1:B:2444:UNK:HB2	1:B:2988:PRO:HB3	2.01	0.42
1:B:2695:MET:HG3	1:B:2696:TYR:N	2.34	0.42
1:B:2836:LEU:HA	1:B:2836:LEU:HD23	1.87	0.42
1:B:341:THR:HG23	1:B:344:HIS:ND1	2.34	0.42
1:C:1106:CYS:SG	1:C:1174:VAL:HG11	2.60	0.42
1:C:2244:ARG:HG2	1:C:2245:VAL:N	2.34	0.42
1:C:2512:TRP:O	1:C:2520:LEU:HD12	2.19	0.42
1:C:2620:THR:OG1	1:C:2791:ARG:NH2	2.53	0.42
1:C:2911:ALA:O	1:C:2916:ARG:HB2	2.19	0.42
1:C:2961:LEU:HD22	1:C:2976:TRP:HD1	1.85	0.42
1:C:2444:UNK:HB2	1:C:2988:PRO:HB3	2.01	0.42
1:C:981:UNK:CG	1:C:987:UNK:C	2.96	0.42
1:C:999:UNK:HG2	1:C:1007:UNK:HG3	1.96	0.42
1:A:2610:ARG:NH1	1:A:2700:LEU:HD11	2.25	0.42
1:A:2805:ASP:OD2	1:A:2807:ARG:HB2	2.20	0.42
1:B:107:LEU:HD13	1:B:113:VAL:HB	2.01	0.42
1:B:2297:ARG:HH12	1:B:2391:LYS:NZ	2.17	0.42
1:B:2294:SER:HB3	1:B:2310:LYS:HB2	2.02	0.42
1:B:2889:ILE:HB	1:B:2924:ILE:HG12	2.01	0.42
1:B:613:GLY:HA2	2:B:4000:FMN:O5'	2.19	0.42
1:B:42:GLU:HA	1:B:43:PRO:HD3	1.91	0.42
1:C:1504:ARG:HA	1:C:1540:SER:O	2.19	0.42
1:C:1637:VAL:HA	1:C:1638:PRO:HD2	1.91	0.42
1:C:2297:ARG:HH12	1:C:2391:LYS:NZ	2.17	0.42
1:C:2846:ALA:O	1:C:2859:GLY:HA3	2.19	0.42
1:C:3065:PRO:O	1:C:3069:GLN:N	2.42	0.42
1:C:45:ALA:O	1:C:351:ILE:HA	2.20	0.42
1:C:970:ILE:O	1:C:974:UNK:HG3	2.20	0.42
1:A:1275:ALA:O	1:A:1279:VAL:HG23	2.20	0.42
1:A:2115:UNK:HA	1:A:2118:UNK:CG	2.49	0.42
1:A:2911:ALA:O	1:A:2916:ARG:HB2	2.19	0.42
1:A:2889:ILE:HG13	1:A:2922:LEU:HD13	2.02	0.42
1:A:307:ILE:HG22	1:A:311:TRP:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:647:THR:N	2:A:4000:FMN:O3P	2.51	0.42
1:A:856:PRO:HG2	1:A:874:ASP:HB2	2.00	0.42
1:B:1275:ALA:HB2	1:B:1311:PHE:CE2	2.55	0.42
1:B:1504:ARG:HA	1:B:1540:SER:O	2.19	0.42
1:B:1656:LYS:N	1:B:1657:PRO:HD2	2.35	0.42
1:B:1703:ILE:HG22	1:B:1704:GLY:H	1.85	0.42
1:B:479:LEU:HD21	1:B:485:ILE:HD11	2.02	0.42
1:B:668:THR:HG23	1:B:683:GLY:HA3	2.02	0.42
1:B:885:GLU:HG2	1:B:887:ASP:H	1.84	0.42
1:C:1120:GLU:HA	1:C:1125:VAL:CG2	2.50	0.42
1:C:2120:UNK:C	1:C:2123:UNK:HG3	2.50	0.42
1:C:2125:UNK:CA	1:C:2128:UNK:HG3	2.49	0.42
1:C:2297:ARG:HH22	1:C:2391:LYS:HZ3	1.67	0.42
1:C:2891:LYS:NZ	1:C:2903:GLU:HB3	2.35	0.42
1:C:50:GLY:O	1:C:53:SER:OG	2.36	0.42
1:C:658:SER:HB2	1:C:661:VAL:HG23	2.01	0.42
1:C:795:HIS:NE2	1:C:797:GLN:HB2	2.35	0.42
1:C:780:ARG:NH1	1:C:817:GLU:OE2	2.52	0.42
1:A:1687:PHE:CE1	1:A:1723:GLU:HG2	2.55	0.42
1:A:2296:ASN:ND2	1:A:2395:THR:HG21	2.34	0.42
1:A:336:TRP:HE3	1:A:339:GLU:OE2	2.03	0.42
1:A:488:ASN:OD1	1:A:523:SER:OG	2.34	0.42
1:B:2300:PHE:HZ	1:B:2398:LEU:HB3	1.85	0.42
1:B:2620:THR:OG1	1:B:2791:ARG:NH2	2.53	0.42
1:B:2846:ALA:O	1:B:2859:GLY:HA3	2.19	0.42
1:B:2961:LEU:HD22	1:B:2976:TRP:HD1	1.85	0.42
1:B:436:THR:OG1	1:B:437:PRO:HD3	2.19	0.42
1:B:999:UNK:O	1:B:1007:UNK:CG	2.61	0.42
1:C:1021:LEU:HB3	1:C:1034:GLU:HG2	2.01	0.42
1:C:1503:ILE:HB	1:C:1542:TYR:HB2	2.00	0.42
1:C:1656:LYS:N	1:C:1657:PRO:HD2	2.35	0.42
1:C:2113:UNK:HG2	1:C:2114:UNK:N	2.35	0.42
1:C:315:VAL:C	1:C:317:LEU:H	2.22	0.42
1:C:336:TRP:HE3	1:C:339:GLU:OE2	2.03	0.42
1:C:412:ASP:H	1:C:1025:VAL:CG2	2.31	0.42
1:C:479:LEU:HD21	1:C:485:ILE:HD11	2.02	0.42
1:C:957:LEU:O	1:C:1034:GLU:HB2	2.20	0.42
1:A:1228:VAL:HB	1:A:1311:PHE:HB2	2.02	0.42
1:A:1380:ALA:HB1	1:A:1474:LEU:CD1	2.50	0.42
1:A:2055:VAL:HG22	1:A:2194:TRP:CD1	2.55	0.42
1:A:2064:ARG:HG2	1:A:2100:UNK:HG1	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2584:ASP:O	1:A:2586:GLU:N	2.53	0.42
1:A:2620:THR:OG1	1:A:2791:ARG:NH2	2.53	0.42
1:A:2753:LYS:HA	1:A:2753:LYS:HD3	1.83	0.42
1:A:2846:ALA:O	1:A:2859:GLY:HA3	2.20	0.42
1:A:658:SER:HB2	1:A:661:VAL:HG23	2.01	0.42
1:A:78:GLU:HB2	1:A:176:VAL:HG21	2.01	0.42
1:B:2530:TYR:O	1:B:2533:ALA:N	2.52	0.42
1:B:2557:LEU:HB3	1:B:2613:ARG:HB2	2.01	0.42
1:B:2800:PHE:CZ	1:B:2812:LEU:HD13	2.55	0.42
1:B:408:VAL:HG13	1:B:943:UNK:CG	2.48	0.42
1:C:1275:ALA:O	1:C:1279:VAL:HG23	2.20	0.42
1:C:1280:THR:O	1:C:1288:PRO:HB3	2.20	0.42
1:C:2294:SER:HB3	1:C:2310:LYS:HB2	2.02	0.42
1:C:436:THR:OG1	1:C:437:PRO:HD3	2.19	0.42
1:C:53:SER:HA	1:C:359:ILE:HG13	2.01	0.42
1:A:1008:UNK:CG	1:A:1008:UNK:O	2.67	0.42
1:A:1275:ALA:HB2	1:A:1311:PHE:CE2	2.55	0.42
1:A:1460:ALA:O	1:A:1464:VAL:HG22	2.20	0.42
1:A:2123:UNK:CA	1:A:2126:UNK:HG3	2.50	0.42
1:A:2125:UNK:CA	1:A:2128:UNK:HG3	2.49	0.42
1:A:2800:PHE:CZ	1:A:2812:LEU:HD13	2.55	0.42
1:A:436:THR:OG1	1:A:437:PRO:HD3	2.19	0.42
1:A:668:THR:HG23	1:A:683:GLY:HA3	2.02	0.42
1:B:2055:VAL:HG22	1:B:2194:TRP:CD1	2.55	0.42
1:B:2584:ASP:O	1:B:2586:GLU:N	2.53	0.42
1:B:2892:HIS:HA	1:B:2942:GLN:HE22	1.85	0.42
1:B:970:ILE:O	1:B:974:UNK:HG3	2.20	0.42
1:C:1228:VAL:HB	1:C:1311:PHE:HB2	2.02	0.42
1:C:2354:SER:O	1:C:2358:GLU:HG3	2.20	0.42
1:C:2957:PRO:HB3	1:C:2980:PRO:N	2.34	0.42
1:C:668:THR:HG23	1:C:683:GLY:HA3	2.02	0.42
1:A:1117:ALA:HA	1:A:1120:GLU:HB2	2.01	0.41
1:A:1656:LYS:N	1:A:1657:PRO:HD2	2.35	0.41
1:A:203:ASP:OD2	1:C:1087:PHE:CZ	2.72	0.41
1:A:2096:UNK:CG	1:A:2097:UNK:N	2.82	0.41
1:A:2300:PHE:HZ	1:A:2398:LEU:HB3	1.85	0.41
1:A:2891:LYS:NZ	1:A:2903:GLU:HB3	2.35	0.41
1:A:53:SER:HA	1:A:359:ILE:HG13	2.01	0.41
1:A:976:UNK:CG	1:A:976:UNK:O	2.68	0.41
1:B:1120:GLU:HA	1:B:1125:VAL:CG2	2.50	0.41
1:B:1611:ILE:HG23	1:B:1624:THR:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2077:UNK:CG	1:B:2079:UNK:HG3	2.41	0.41
1:B:2125:UNK:CA	1:B:2128:UNK:HG3	2.49	0.41
1:B:2141:VAL:HG22	1:B:2238:PHE:HD2	1.85	0.41
1:B:2354:SER:O	1:B:2358:GLU:HG3	2.20	0.41
1:B:2405:MET:HA	1:B:2405:MET:HE2	2.02	0.41
1:A:2014:SER:N	1:B:2591:ARG:HH12	2.16	0.41
1:B:2808:ARG:HH21	1:B:2901:PRO:HD3	1.85	0.41
1:B:2889:ILE:HG13	1:B:2922:LEU:HD13	2.02	0.41
1:B:709:LEU:HD21	1:B:872:ARG:NE	2.34	0.41
1:C:1352:PHE:HA	1:C:1353:PRO:HD3	1.72	0.41
1:C:160:GLN:HA	1:C:329:ILE:HD13	2.02	0.41
1:C:1703:ILE:HG22	1:C:1704:GLY:H	1.85	0.41
1:C:2299:MET:HG2	1:C:2299:MET:H	1.68	0.41
1:C:2450:UNK:HG1	1:C:3016:ALA:CB	2.17	0.41
1:A:2294:SER:HB3	1:A:2310:LYS:HB2	2.02	0.41
1:A:266:ALA:O	1:A:270:GLU:HG3	2.20	0.41
1:A:438:THR:HA	1:A:880:HIS:CE1	2.51	0.41
1:A:669:LYS:O	1:A:682:ASN:HB3	2.20	0.41
1:A:970:ILE:O	1:A:974:UNK:HG3	2.20	0.41
1:A:984:UNK:HG2	1:A:984:UNK:O	2.20	0.41
1:B:78:GLU:HB2	1:B:176:VAL:HG21	2.01	0.41
1:B:266:ALA:O	1:B:270:GLU:HG3	2.20	0.41
1:B:50:GLY:O	1:B:53:SER:OG	2.36	0.41
1:C:1611:ILE:HG23	1:C:1624:THR:HA	2.02	0.41
1:A:2591:ARG:NH1	1:C:2014:SER:H	2.19	0.41
1:C:2200:MET:HE3	1:C:2200:MET:HB3	1.95	0.41
1:C:2503:LYS:HG3	1:C:2513:TYR:HB2	2.02	0.41
1:C:2786:ASP:OD2	1:C:2789:MET:HG2	2.19	0.41
1:C:2808:ARG:HH21	1:C:2901:PRO:HD3	1.85	0.41
1:C:2800:PHE:CZ	1:C:2812:LEU:HD13	2.55	0.41
1:C:360:LEU:HA	1:C:363:LEU:HB3	2.02	0.41
1:C:559:SER:O	1:C:563:ILE:HG12	2.20	0.41
1:C:618:PRO:HB3	1:C:915:PHE:HA	2.02	0.41
1:C:756:LEU:HD13	1:C:859:PHE:CD2	2.55	0.41
1:A:70:SER:HG	1:A:142:ARG:HH22	1.65	0.41
1:A:1611:ILE:HG23	1:A:1624:THR:HA	2.02	0.41
1:A:2444:UNK:HB2	1:A:2988:PRO:HB3	2.01	0.41
1:A:2563:LEU:HD21	1:A:2567:PHE:HB2	2.02	0.41
1:A:2919:GLY:O	1:A:2921:PRO:HD3	2.21	0.41
1:A:360:LEU:HA	1:A:363:LEU:HB3	2.02	0.41
1:A:559:SER:O	1:A:563:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:795:HIS:NE2	1:A:797:GLN:HB2	2.35	0.41
1:B:1228:VAL:HB	1:B:1311:PHE:HB2	2.02	0.41
1:B:1706:LYS:HA	1:B:1735:GLU:HG3	2.02	0.41
1:B:2064:ARG:HG2	1:B:2100:UNK:HG1	2.01	0.41
1:B:2805:ASP:OD2	1:B:2807:ARG:HB2	2.20	0.41
1:B:336:TRP:HE3	1:B:339:GLU:OE2	2.03	0.41
1:B:487:PHE:O	1:B:521:VAL:N	2.51	0.41
1:C:1095:LEU:HD23	1:C:1098:VAL:HA	2.03	0.41
1:C:2123:UNK:CA	1:C:2126:UNK:HG3	2.50	0.41
1:C:2695:MET:HG3	1:C:2696:TYR:N	2.34	0.41
1:C:211:THR:HB	1:C:286:VAL:HB	2.01	0.41
1:C:369:ARG:HD2	1:C:369:ARG:HA	1.85	0.41
1:A:2557:LEU:HB3	1:A:2613:ARG:HB2	2.01	0.41
1:A:2892:HIS:HA	1:A:2942:GLN:HE22	1.85	0.41
1:B:1095:LEU:HD23	1:B:1098:VAL:HA	2.02	0.41
1:B:1106:CYS:SG	1:B:1174:VAL:HG11	2.60	0.41
1:B:1224:UNK:HG2	1:B:1224:UNK:O	2.20	0.41
1:B:1662:ARG:HG3	1:B:1663:LYS:N	2.34	0.41
1:B:2891:LYS:NZ	1:B:2903:GLU:HB3	2.35	0.41
1:B:436:THR:HG22	1:B:460:GLY:HA3	2.03	0.41
1:B:580:ARG:HD3	1:B:896:ALA:HB3	2.01	0.41
1:B:980:UNK:C	1:B:981:UNK:CG	2.96	0.41
1:C:2055:VAL:HG22	1:C:2194:TRP:CD1	2.55	0.41
1:C:2296:ASN:ND2	1:C:2395:THR:HG21	2.34	0.41
1:C:266:ALA:O	1:C:270:GLU:HG3	2.20	0.41
1:C:669:LYS:O	1:C:682:ASN:HB3	2.20	0.41
1:A:1703:ILE:HG22	1:A:1704:GLY:H	1.85	0.41
1:A:2134:UNK:HB1	1:A:2189:PHE:HD2	1.85	0.41
1:A:2354:SER:O	1:A:2358:GLU:HG3	2.20	0.41
1:A:233:LEU:HB3	1:A:251:THR:OG1	2.21	0.41
1:A:2492:VAL:HG12	1:A:2526:ILE:HG22	2.02	0.41
1:A:2889:ILE:HB	1:A:2924:ILE:HG12	2.01	0.41
1:B:1460:ALA:O	1:B:1464:VAL:HG22	2.20	0.41
1:B:2096:UNK:CG	1:B:2097:UNK:N	2.82	0.41
1:B:2123:UNK:CA	1:B:2126:UNK:HG3	2.50	0.41
1:B:2205:ASP:O	1:B:2209:LEU:HB2	2.21	0.41
1:B:2503:LYS:HG3	1:B:2513:TYR:HB2	2.02	0.41
1:B:793:ARG:HH12	1:B:2523:GLU:CD	2.24	0.41
1:B:2563:LEU:HD21	1:B:2567:PHE:HB2	2.02	0.41
1:B:669:LYS:O	1:B:682:ASN:HB3	2.20	0.41
1:A:117:LYS:HZ1	1:C:1087:PHE:HD2	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1399:ASN:HA	1:C:1400:PRO:HD3	1.86	0.41
1:C:1672:GLN:HE21	1:C:1672:GLN:HB3	1.58	0.41
1:C:1687:PHE:CE1	1:C:1723:GLU:HG2	2.55	0.41
1:C:2092:UNK:O	1:C:2092:UNK:CG	2.64	0.41
1:C:2104:UNK:CA	1:C:2107:UNK:HG3	2.50	0.41
1:C:2889:ILE:HG13	1:C:2922:LEU:HD13	2.02	0.41
1:C:374:GLY:C	1:C:375:ILE:HG13	2.41	0.41
1:C:417:LEU:HD21	1:C:625:LEU:HD21	2.02	0.41
1:C:885:GLU:HG2	1:C:887:ASP:H	1.84	0.41
1:A:1491:ASP:HB2	1:A:1495:ARG:HB2	2.02	0.41
1:A:2014:SER:H	1:B:2591:ARG:NH1	2.18	0.41
1:A:202:GLY:O	1:A:289:PRO:HD2	2.21	0.41
1:A:2113:UNK:HG2	1:A:2114:UNK:N	2.35	0.41
1:A:2113:UNK:HA	1:A:2116:UNK:HG3	2.03	0.41
1:A:587:TRP:CZ2	1:A:694:ASP:OD2	2.74	0.41
1:A:756:LEU:HD13	1:A:859:PHE:CD2	2.55	0.41
1:B:2058:ASP:N	1:B:2058:ASP:OD1	2.46	0.41
1:B:2483:VAL:HG13	1:B:2954:VAL:HG11	2.03	0.41
1:B:936:UNK:HA	1:B:939:UNK:CG	2.51	0.41
1:C:1634:ARG:NH1	1:C:1639:ALA:H	2.11	0.41
1:C:1706:LYS:HA	1:C:1735:GLU:HG3	2.03	0.41
1:C:2113:UNK:HA	1:C:2116:UNK:HG3	2.03	0.41
1:C:2468:GLU:OE2	1:C:2478:ARG:NH2	2.48	0.41
1:C:585:HIS:HB3	1:C:694:ASP:HB2	2.03	0.41
1:A:957:LEU:O	1:A:1034:GLU:HB2	2.20	0.41
1:A:1400:PRO:O	1:A:1415:GLY:HA2	2.21	0.41
1:A:1535:PHE:O	1:A:1679:TRP:N	2.48	0.41
1:A:2141:VAL:HG22	1:A:2238:PHE:CD2	2.56	0.41
1:A:2770:LEU:CB	1:A:2815:GLN:HB3	2.51	0.41
1:A:160:GLN:HA	1:A:329:ILE:HD13	2.02	0.41
1:A:393:VAL:O	1:A:395:GLU:N	2.52	0.41
1:B:1275:ALA:O	1:B:1279:VAL:HG23	2.20	0.41
1:B:1400:PRO:O	1:B:1415:GLY:HA2	2.21	0.41
1:B:1491:ASP:HB2	1:B:1495:ARG:HB2	2.02	0.41
1:B:2120:UNK:C	1:B:2123:UNK:HG3	2.50	0.41
1:B:2286:ARG:HD3	1:B:2331:SER:OG	2.20	0.41
1:B:233:LEU:HB3	1:B:251:THR:OG1	2.21	0.41
1:B:2770:LEU:CB	1:B:2815:GLN:HB3	2.51	0.41
1:B:202:GLY:O	1:B:289:PRO:HD2	2.21	0.41
1:B:709:LEU:HD11	1:B:872:ARG:CZ	2.51	0.41
1:C:1460:ALA:O	1:C:1464:VAL:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2286:ARG:HD3	1:C:2331:SER:OG	2.20	0.41
1:C:2710:LEU:HD12	1:C:2713:VAL:HG21	2.03	0.41
1:C:2805:ASP:OD2	1:C:2807:ARG:HB2	2.20	0.41
1:C:2919:GLY:O	1:C:2921:PRO:HD3	2.21	0.41
1:C:515:ALA:HA	1:C:516:PRO:HD3	1.84	0.41
1:A:1099:PRO:HB2	1:A:1295:TRP:HE1	1.86	0.41
1:A:2831:MET:HB3	1:A:2831:MET:HE2	1.87	0.41
1:A:479:LEU:HD21	1:A:485:ILE:HD11	2.02	0.41
1:B:1164:THR:HG22	1:B:1204:UNK:HB2	2.03	0.41
1:B:1695:LEU:HD12	1:B:1695:LEU:HA	1.71	0.41
1:B:2113:UNK:HA	1:B:2116:UNK:HG3	2.03	0.41
1:B:2891:LYS:HZ2	1:B:2903:GLU:CG	2.34	0.41
1:B:3065:PRO:O	1:B:3069:GLN:N	2.42	0.41
1:B:160:GLN:HA	1:B:329:ILE:HD13	2.02	0.41
1:B:374:GLY:C	1:B:375:ILE:HG13	2.41	0.41
1:B:559:SER:O	1:B:563:ILE:HG12	2.20	0.41
1:B:957:LEU:O	1:B:1034:GLU:HB2	2.20	0.41
1:C:107:LEU:HD13	1:C:113:VAL:HB	2.01	0.41
1:C:2114:UNK:O	1:C:2118:UNK:HG3	2.21	0.41
1:C:2428:UNK:O	1:C:2428:UNK:CG	2.67	0.41
1:C:3062:HIS:H	1:C:3066:GLU:HG3	1.86	0.41
1:A:133:GLN:O	1:A:137:VAL:HG23	2.21	0.41
1:A:1634:ARG:NH1	1:A:1639:ALA:H	2.11	0.41
1:A:2104:UNK:CA	1:A:2107:UNK:HG3	2.50	0.41
1:A:2961:LEU:HD22	1:A:2976:TRP:HD1	1.85	0.41
1:A:45:ALA:O	1:A:351:ILE:HA	2.20	0.41
1:A:594:LEU:O	1:A:598:TYR:HB2	2.21	0.41
1:A:585:HIS:HB3	1:A:694:ASP:HB2	2.03	0.41
1:A:936:UNK:HA	1:A:939:UNK:CG	2.51	0.41
1:B:1017:ILE:HG12	1:B:1045:VAL:HG11	2.03	0.41
1:B:1687:PHE:CE1	1:B:1723:GLU:HG2	2.55	0.41
1:B:2104:UNK:CA	1:B:2107:UNK:HG3	2.50	0.41
1:B:2989:LEU:HD12	1:B:2989:LEU:HA	1.77	0.41
1:B:360:LEU:HA	1:B:363:LEU:HB3	2.03	0.41
1:B:618:PRO:HB3	1:B:915:PHE:HA	2.02	0.41
1:B:795:HIS:NE2	1:B:797:GLN:HB2	2.35	0.41
1:C:1002:UNK:CG	1:C:1005:UNK:HB2	2.51	0.41
1:C:1491:ASP:HB2	1:C:1495:ARG:HB2	2.02	0.41
1:C:2492:VAL:HG12	1:C:2526:ILE:HG22	2.02	0.41
1:C:3057:ASP:N	1:C:3057:ASP:OD1	2.54	0.41
1:A:1224:UNK:HG2	1:A:1224:UNK:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2114:UNK:O	1:A:2118:UNK:HG3	2.21	0.41
1:A:3057:ASP:N	1:A:3057:ASP:OD1	2.54	0.41
1:A:278:ARG:HD2	1:A:674:TRP:CE3	2.56	0.41
1:A:795:HIS:HE2	1:A:797:GLN:HB2	1.86	0.41
1:A:985:UNK:O	1:A:988:UNK:HG3	2.21	0.41
1:B:1637:VAL:HA	1:B:1638:PRO:HD2	1.90	0.41
1:B:2212:TRP:O	1:B:2229:LYS:HB3	2.21	0.41
1:B:2405:MET:O	1:B:2409:ALA:HB3	2.21	0.41
1:B:3057:ASP:N	1:B:3057:ASP:OD1	2.54	0.41
1:B:3062:HIS:H	1:B:3066:GLU:HG3	1.86	0.41
1:B:369:ARG:HA	1:B:369:ARG:HD2	1.85	0.41
1:C:1099:PRO:HB2	1:C:1295:TRP:HE1	1.86	0.41
1:C:1986:LEU:HA	1:C:1989:PHE:CD2	2.56	0.41
1:C:2010:GLN:OE1	1:C:2013:LEU:HD11	2.21	0.41
1:C:233:LEU:HB3	1:C:251:THR:OG1	2.21	0.41
1:C:2889:ILE:HD12	1:C:2993:LEU:HD23	2.03	0.41
1:C:2978:ARG:HG3	1:C:2979:GLU:HG3	2.03	0.41
1:C:436:THR:HG22	1:C:460:GLY:HA3	2.03	0.41
1:C:936:UNK:HA	1:C:939:UNK:CG	2.51	0.41
1:A:2098:UNK:HG2	1:A:2099:UNK:N	2.36	0.41
1:A:2212:TRP:O	1:A:2229:LYS:HB3	2.21	0.41
1:A:2334:HIS:CD2	1:A:2391:LYS:HG3	2.50	0.41
1:A:793:ARG:HH12	1:A:2523:GLU:CD	2.24	0.41
1:B:1462:ALA:HB2	1:B:1468:TYR:CE1	2.56	0.41
1:B:2919:GLY:O	1:B:2921:PRO:HD3	2.21	0.41
1:B:2927:GLN:HE21	1:B:2927:GLN:HB3	1.70	0.41
1:B:594:LEU:O	1:B:598:TYR:HB2	2.21	0.41
1:C:2483:VAL:HG13	1:C:2954:VAL:HG11	2.03	0.41
1:C:2989:LEU:HD12	1:C:2989:LEU:HA	1.77	0.41
1:C:594:LEU:O	1:C:598:TYR:HB2	2.21	0.41
1:C:278:ARG:HD2	1:C:674:TRP:CE3	2.56	0.41
1:C:709:LEU:HD11	1:C:872:ARG:CZ	2.51	0.41
1:A:1087:PHE:CD1	1:B:198:ILE:HG23	2.56	0.40
1:A:1095:LEU:HD13	1:A:1289:PRO:CB	2.52	0.40
1:A:1120:GLU:HA	1:A:1125:VAL:CG2	2.50	0.40
1:A:2086:UNK:HA	1:A:2089:UNK:CG	2.51	0.40
1:A:2093:UNK:HB2	1:A:2129:UNK:HB2	2.03	0.40
1:B:358:ASP:OD2	1:B:361:THR:HB	2.21	0.40
1:C:1133:VAL:N	1:C:1193:ALA:O	2.48	0.40
1:C:1224:UNK:O	1:C:1224:UNK:HG2	2.20	0.40
1:C:180:ALA:O	1:C:184:LEU:HG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2300:PHE:HZ	1:C:2398:LEU:HB3	1.85	0.40
1:C:273:ARG:HD2	1:C:282:VAL:CG1	2.51	0.40
1:C:602:ARG:NH2	1:C:641:ASP:OD1	2.27	0.40
1:C:984:UNK:HG2	1:C:984:UNK:O	2.20	0.40
1:A:1462:ALA:HB2	1:A:1468:TYR:CE1	2.56	0.40
1:A:1604:ASP:N	1:A:1604:ASP:OD1	2.55	0.40
1:A:1695:LEU:HA	1:A:1695:LEU:HD12	1.71	0.40
1:A:1702:GLU:OE1	1:A:1711:VAL:HG22	2.22	0.40
1:A:2010:GLN:OE1	1:A:2013:LEU:HD11	2.21	0.40
1:A:2120:UNK:C	1:A:2123:UNK:HG3	2.50	0.40
1:A:2405:MET:HA	1:A:2405:MET:HE2	2.03	0.40
1:A:2710:LEU:HD12	1:A:2713:VAL:HG21	2.03	0.40
1:A:278:ARG:HD2	1:A:674:TRP:HE3	1.87	0.40
1:A:709:LEU:HD11	1:A:872:ARG:CZ	2.51	0.40
1:B:1237:ARG:HG2	1:B:1237:ARG:HH11	1.86	0.40
1:B:133:GLN:O	1:B:137:VAL:HG23	2.21	0.40
1:B:1381:ASP:OD1	1:B:1391:SER:OG	2.22	0.40
1:B:1533:VAL:N	1:B:1543:ALA:O	2.52	0.40
1:B:1604:ASP:OD1	1:B:1604:ASP:N	2.55	0.40
1:B:2400:ASP:N	1:B:2400:ASP:OD1	2.45	0.40
1:B:2978:ARG:HG3	1:B:2979:GLU:HG3	2.03	0.40
1:B:417:LEU:HD21	1:B:625:LEU:HD21	2.02	0.40
1:B:756:LEU:HD13	1:B:859:PHE:CD2	2.55	0.40
1:B:999:UNK:HG2	1:B:1007:UNK:HG3	1.96	0.40
1:C:1215:UNK:CG	1:C:1216:UNK:N	2.84	0.40
1:C:133:GLN:O	1:C:137:VAL:HG23	2.21	0.40
1:C:1400:PRO:O	1:C:1415:GLY:HA2	2.21	0.40
1:B:1087:PHE:CD1	1:C:198:ILE:HG23	2.56	0.40
1:C:2114:UNK:O	1:C:2117:UNK:HG3	2.21	0.40
1:C:2449:UNK:O	1:C:2449:UNK:CG	2.68	0.40
1:C:2892:HIS:HA	1:C:2942:GLN:HE22	1.85	0.40
1:C:393:VAL:O	1:C:395:GLU:N	2.52	0.40
1:C:544:ILE:C	1:C:546:HIS:H	2.22	0.40
1:A:2286:ARG:HD3	1:A:2331:SER:OG	2.20	0.40
1:A:2346:MET:O	1:A:2349:ASN:N	2.55	0.40
1:A:487:PHE:O	1:A:521:VAL:N	2.51	0.40
1:A:618:PRO:HB3	1:A:915:PHE:HA	2.02	0.40
1:B:1095:LEU:HD13	1:B:1289:PRO:CB	2.52	0.40
1:B:1616:PRO:HG2	1:B:1619:VAL:HB	2.04	0.40
1:B:2014:SER:H	1:C:2591:ARG:NH1	2.19	0.40
1:B:2114:UNK:O	1:B:2117:UNK:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2093:UNK:HB2	1:B:2129:UNK:HB2	2.03	0.40
1:B:2672:TRP:CZ3	1:B:2830:LYS:HG2	2.56	0.40
1:B:984:UNK:HG2	1:B:984:UNK:O	2.20	0.40
1:A:198:ILE:HG23	1:C:1087:PHE:CD1	2.56	0.40
1:C:1237:ARG:HH11	1:C:1237:ARG:HG2	1.86	0.40
1:C:2141:VAL:HG22	1:C:2238:PHE:CD2	2.56	0.40
1:C:2405:MET:O	1:C:2409:ALA:HB3	2.21	0.40
1:C:793:ARG:HH12	1:C:2523:GLU:CD	2.24	0.40
1:C:2574:GLU:HG3	1:C:2599:TRP:CE2	2.57	0.40
1:C:2672:TRP:CZ3	1:C:2830:LYS:HG2	2.56	0.40
1:C:2770:LEU:CB	1:C:2815:GLN:HB3	2.51	0.40
1:C:745:THR:HG22	1:C:747:LEU:N	2.37	0.40
1:C:799:PHE:CZ	1:C:2433:UNK:CG	2.99	0.40
1:C:794:LEU:HD12	1:C:830:TYR:HB3	2.04	0.40
1:C:976:UNK:O	1:C:976:UNK:CG	2.68	0.40
1:C:995:UNK:HB1	1:C:1011:UNK:HG2	1.99	0.40
1:A:1706:LYS:HA	1:A:1735:GLU:HG3	2.03	0.40
1:A:180:ALA:O	1:A:184:LEU:HG	2.21	0.40
1:A:2611:VAL:HA	1:A:2612:PRO:HD3	1.86	0.40
1:A:2618:SER:HB3	1:A:2786:ASP:OD1	2.21	0.40
1:A:2672:TRP:CZ3	1:A:2830:LYS:HG2	2.56	0.40
1:A:417:LEU:HD21	1:A:625:LEU:HD21	2.02	0.40
1:A:745:THR:HG22	1:A:747:LEU:N	2.37	0.40
1:B:1002:UNK:CG	1:B:1005:UNK:HB2	2.51	0.40
1:B:1087:PHE:HZ	1:C:203:ASP:OD2	2.05	0.40
1:B:142:ARG:HD3	1:B:142:ARG:HA	1.91	0.40
1:B:1380:ALA:HB1	1:B:1474:LEU:CD1	2.50	0.40
1:B:1353:PRO:HB2	1:B:1707:SER:HB2	2.04	0.40
1:B:2907:HIS:HA	1:B:2910:ILE:HG12	2.04	0.40
1:B:336:TRP:HE1	1:B:364:THR:HG22	1.86	0.40
1:B:544:ILE:C	1:B:546:HIS:H	2.22	0.40
1:B:587:TRP:CZ2	1:B:694:ASP:OD2	2.74	0.40
1:C:1095:LEU:HD12	1:C:1096:THR:N	2.35	0.40
1:C:1535:PHE:O	1:C:1679:TRP:N	2.48	0.40
1:C:1616:PRO:HG2	1:C:1619:VAL:HB	2.04	0.40
1:C:1619:VAL:HA	1:C:1620:PRO:HD2	1.80	0.40
1:C:2093:UNK:HB2	1:C:2129:UNK:HB2	2.03	0.40
1:A:1013:UNK:CG	1:A:1014:UNK:N	2.58	0.40
1:A:1629:PHE:O	1:A:1633:ILE:HG13	2.22	0.40
1:A:2114:UNK:O	1:A:2117:UNK:HG3	2.22	0.40
1:A:2205:ASP:O	1:A:2209:LEU:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2405:MET:O	1:A:2409:ALA:HB3	2.21	0.40
1:A:2503:LYS:HG3	1:A:2513:TYR:HB2	2.02	0.40
1:A:2836:LEU:HD23	1:A:2836:LEU:HA	1.87	0.40
1:A:358:ASP:OD2	1:A:361:THR:HB	2.21	0.40
1:A:374:GLY:C	1:A:375:ILE:HG13	2.41	0.40
1:A:544:ILE:C	1:A:546:HIS:H	2.22	0.40
1:B:1099:PRO:HB2	1:B:1295:TRP:HE1	1.86	0.40
1:B:2346:MET:O	1:B:2349:ASN:N	2.55	0.40
1:B:2492:VAL:HG12	1:B:2526:ILE:HG22	2.02	0.40
1:B:2557:LEU:HD23	1:B:2558:LEU:N	2.37	0.40
1:B:2611:VAL:HA	1:B:2612:PRO:HD3	1.86	0.40
1:B:273:ARG:HD2	1:B:282:VAL:CG1	2.51	0.40
1:B:541:GLU:HG3	1:B:542:VAL:N	2.37	0.40
1:B:585:HIS:HB3	1:B:694:ASP:HB2	2.03	0.40
1:B:985:UNK:O	1:B:988:UNK:HG3	2.21	0.40
1:C:2930:LEU:HD23	1:C:2930:LEU:HA	1.93	0.40
1:C:408:VAL:HG23	1:C:418:GLU:HB2	2.04	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	2637/3089 (85%)	2489 (94%)	140 (5%)	8 (0%)	44	81
1	B	2637/3089 (85%)	2489 (94%)	140 (5%)	8 (0%)	44	81
1	C	2637/3089 (85%)	2489 (94%)	139 (5%)	9 (0%)	44	81
1	D	2637/3089 (85%)	2488 (94%)	140 (5%)	9 (0%)	44	81
1	E	2637/3089 (85%)	2488 (94%)	141 (5%)	8 (0%)	44	81
1	F	2637/3089 (85%)	2488 (94%)	140 (5%)	9 (0%)	44	81
All	All	15822/18534 (85%)	14931 (94%)	840 (5%)	51 (0%)	48	81

All (51) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	1148	GLU
1	E	1148	GLU
1	F	1148	GLU
1	A	1148	GLU
1	B	1148	GLU
1	C	1148	GLU
1	D	1724	TYR
1	E	1724	TYR
1	F	1724	TYR
1	A	1724	TYR
1	B	1724	TYR
1	C	1724	TYR
1	D	149	ALA
1	D	1652	TRP
1	D	1705	VAL
1	E	149	ALA
1	E	1652	TRP
1	E	1705	VAL
1	F	149	ALA
1	F	1652	TRP
1	F	1705	VAL
1	A	149	ALA
1	A	1652	TRP
1	A	1705	VAL
1	B	149	ALA
1	B	1652	TRP
1	B	1705	VAL
1	C	149	ALA
1	C	1652	TRP
1	C	1705	VAL
1	D	89	GLU
1	E	89	GLU
1	F	89	GLU
1	A	89	GLU
1	B	89	GLU
1	C	89	GLU
1	D	1068	VAL
1	D	1285	LYS
1	E	1068	VAL
1	E	1285	LYS
1	F	1068	VAL
1	F	1285	LYS

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Mol	Chain	Res	Type
1	A	1068	VAL
1	A	1285	LYS
1	B	1068	VAL
1	B	1285	LYS
1	C	1068	VAL
1	C	1285	LYS
1	D	2585	PRO
1	F	2585	PRO
1	C	2585	PRO

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	2076/2264 (92%)	1987 (96%)	89 (4%)	33	64
1	B	2076/2264 (92%)	1986 (96%)	90 (4%)	33	64
1	C	2076/2264 (92%)	1987 (96%)	89 (4%)	33	64
1	D	2076/2264 (92%)	1987 (96%)	89 (4%)	33	64
1	E	2076/2264 (92%)	1987 (96%)	89 (4%)	33	64
1	F	2076/2264 (92%)	1987 (96%)	89 (4%)	33	64
All	All	12456/13584 (92%)	11921 (96%)	535 (4%)	38	64

All (535) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	90	LEU
1	D	208	VAL
1	D	209	SER
1	D	232	VAL
1	D	233	LEU
1	D	248	ILE
1	D	251	THR
1	D	342	GLU
1	D	344	HIS

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Mol	Chain	Res	Type
1	D	358	ASP
1	D	361	THR
1	D	389	THR
1	D	390	VAL
1	D	400	TRP
1	D	409	LYS
1	D	424	LEU
1	D	427	ARG
1	D	439	THR
1	D	456	GLU
1	D	517	ILE
1	D	544	ILE
1	D	580	ARG
1	D	584	HIS
1	D	595	LEU
1	D	606	ASN
1	D	621	SER
1	D	638	MET
1	D	644	LEU
1	D	654	GLU
1	D	694	ASP
1	D	696	HIS
1	D	699	ASP
1	D	791	GLU
1	D	857	VAL
1	D	1021	LEU
1	D	1096	THR
1	D	1105	ARG
1	D	1127	GLU
1	D	1162	THR
1	D	1253	ARG
1	D	1358	GLN
1	D	1421	GLN
1	D	1468	TYR
1	D	1471	GLU
1	D	1488	VAL
1	D	1508	ILE
1	D	1544	ILE
1	D	1551	LEU
1	D	1564	ILE
1	D	1618	LEU
1	D	1651	THR

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Mol	Chain	Res	Type
1	D	1662	ARG
1	D	1672	GLN
1	D	1673	PHE
1	D	1745	ASP
1	D	2059	ARG
1	D	2067	LEU
1	D	2070	LEU
1	D	2192	THR
1	D	2196	VAL
1	D	2209	LEU
1	D	2294	SER
1	D	2297	ARG
1	D	2299	MET
1	D	2303	ASP
1	D	2306	TYR
1	D	2395	THR
1	D	2401	ILE
1	D	2620	THR
1	D	2692	MET
1	D	2742	THR
1	D	2784	THR
1	D	2800	PHE
1	D	2802	ARG
1	D	2809	LEU
1	D	2827	LEU
1	D	2861	LEU
1	D	2871	THR
1	D	2879	LEU
1	D	2894	THR
1	D	2916	ARG
1	D	2930	LEU
1	D	2935	LYS
1	D	2962	ASP
1	D	3001	HIS
1	D	3019	ASP
1	D	3076	SER
1	D	3077	THR
1	D	3080	ARG
1	E	90	LEU
1	E	208	VAL
1	E	209	SER
1	E	232	VAL

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Mol	Chain	Res	Type
1	E	233	LEU
1	E	248	ILE
1	E	251	THR
1	E	342	GLU
1	E	344	HIS
1	E	358	ASP
1	E	361	THR
1	E	389	THR
1	E	390	VAL
1	E	400	TRP
1	E	409	LYS
1	E	424	LEU
1	E	427	ARG
1	E	439	THR
1	E	456	GLU
1	E	517	ILE
1	E	544	ILE
1	E	580	ARG
1	E	584	HIS
1	E	595	LEU
1	E	606	ASN
1	E	621	SER
1	E	638	MET
1	E	644	LEU
1	E	654	GLU
1	E	694	ASP
1	E	696	HIS
1	E	699	ASP
1	E	791	GLU
1	E	857	VAL
1	E	1021	LEU
1	E	1096	THR
1	E	1105	ARG
1	E	1127	GLU
1	E	1162	THR
1	E	1253	ARG
1	E	1358	GLN
1	E	1421	GLN
1	E	1468	TYR
1	E	1471	GLU
1	E	1488	VAL
1	E	1508	ILE

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Mol	Chain	Res	Type
1	E	1544	ILE
1	E	1551	LEU
1	E	1564	ILE
1	E	1618	LEU
1	E	1651	THR
1	E	1662	ARG
1	E	1672	GLN
1	E	1673	PHE
1	E	1745	ASP
1	E	2059	ARG
1	E	2067	LEU
1	E	2070	LEU
1	E	2192	THR
1	E	2196	VAL
1	E	2209	LEU
1	E	2294	SER
1	E	2297	ARG
1	E	2299	MET
1	E	2303	ASP
1	E	2306	TYR
1	E	2395	THR
1	E	2401	ILE
1	E	2620	THR
1	E	2692	MET
1	E	2742	THR
1	E	2784	THR
1	E	2800	PHE
1	E	2802	ARG
1	E	2809	LEU
1	E	2827	LEU
1	E	2861	LEU
1	E	2871	THR
1	E	2879	LEU
1	E	2894	THR
1	E	2916	ARG
1	E	2930	LEU
1	E	2935	LYS
1	E	2962	ASP
1	E	3001	HIS
1	E	3019	ASP
1	E	3076	SER
1	E	3077	THR

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Mol	Chain	Res	Type
1	E	3080	ARG
1	F	90	LEU
1	F	208	VAL
1	F	209	SER
1	F	232	VAL
1	F	233	LEU
1	F	248	ILE
1	F	251	THR
1	F	342	GLU
1	F	344	HIS
1	F	358	ASP
1	F	361	THR
1	F	389	THR
1	F	390	VAL
1	F	400	TRP
1	F	409	LYS
1	F	424	LEU
1	F	427	ARG
1	F	439	THR
1	F	456	GLU
1	F	517	ILE
1	F	544	ILE
1	F	580	ARG
1	F	584	HIS
1	F	595	LEU
1	F	606	ASN
1	F	621	SER
1	F	638	MET
1	F	644	LEU
1	F	654	GLU
1	F	694	ASP
1	F	696	HIS
1	F	699	ASP
1	F	791	GLU
1	F	857	VAL
1	F	1021	LEU
1	F	1096	THR
1	F	1105	ARG
1	F	1127	GLU
1	F	1162	THR
1	F	1253	ARG
1	F	1358	GLN

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Mol	Chain	Res	Type
1	F	1421	GLN
1	F	1468	TYR
1	F	1471	GLU
1	F	1488	VAL
1	F	1508	ILE
1	F	1544	ILE
1	F	1551	LEU
1	F	1564	ILE
1	F	1618	LEU
1	F	1651	THR
1	F	1662	ARG
1	F	1672	GLN
1	F	1673	PHE
1	F	1745	ASP
1	F	2059	ARG
1	F	2067	LEU
1	F	2070	LEU
1	F	2192	THR
1	F	2196	VAL
1	F	2209	LEU
1	F	2294	SER
1	F	2297	ARG
1	F	2299	MET
1	F	2303	ASP
1	F	2306	TYR
1	F	2395	THR
1	F	2401	ILE
1	F	2620	THR
1	F	2692	MET
1	F	2742	THR
1	F	2784	THR
1	F	2800	PHE
1	F	2802	ARG
1	F	2809	LEU
1	F	2827	LEU
1	F	2861	LEU
1	F	2871	THR
1	F	2879	LEU
1	F	2894	THR
1	F	2916	ARG
1	F	2930	LEU
1	F	2935	LYS

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Mol	Chain	Res	Type
1	F	2962	ASP
1	F	3001	HIS
1	F	3019	ASP
1	F	3076	SER
1	F	3077	THR
1	F	3080	ARG
1	A	90	LEU
1	A	208	VAL
1	A	209	SER
1	A	232	VAL
1	A	233	LEU
1	A	248	ILE
1	A	251	THR
1	A	342	GLU
1	A	344	HIS
1	A	358	ASP
1	A	361	THR
1	A	389	THR
1	A	390	VAL
1	A	400	TRP
1	A	409	LYS
1	A	424	LEU
1	A	427	ARG
1	A	439	THR
1	A	456	GLU
1	A	517	ILE
1	A	544	ILE
1	A	580	ARG
1	A	584	HIS
1	A	595	LEU
1	A	606	ASN
1	A	621	SER
1	A	638	MET
1	A	644	LEU
1	A	654	GLU
1	A	694	ASP
1	A	696	HIS
1	A	699	ASP
1	A	791	GLU
1	A	857	VAL
1	A	1021	LEU
1	A	1096	THR

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Mol	Chain	Res	Type
1	A	1105	ARG
1	A	1127	GLU
1	A	1162	THR
1	A	1253	ARG
1	A	1358	GLN
1	A	1421	GLN
1	A	1468	TYR
1	A	1471	GLU
1	A	1488	VAL
1	A	1508	ILE
1	A	1544	ILE
1	A	1551	LEU
1	A	1564	ILE
1	A	1618	LEU
1	A	1651	THR
1	A	1662	ARG
1	A	1672	GLN
1	A	1673	PHE
1	A	1745	ASP
1	A	2059	ARG
1	A	2067	LEU
1	A	2070	LEU
1	A	2192	THR
1	A	2196	VAL
1	A	2209	LEU
1	A	2294	SER
1	A	2297	ARG
1	A	2299	MET
1	A	2303	ASP
1	A	2306	TYR
1	A	2395	THR
1	A	2401	ILE
1	A	2620	THR
1	A	2692	MET
1	A	2742	THR
1	A	2784	THR
1	A	2800	PHE
1	A	2802	ARG
1	A	2809	LEU
1	A	2827	LEU
1	A	2861	LEU
1	A	2871	THR

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Mol	Chain	Res	Type
1	A	2879	LEU
1	A	2894	THR
1	A	2916	ARG
1	A	2930	LEU
1	A	2935	LYS
1	A	2962	ASP
1	A	3001	HIS
1	A	3019	ASP
1	A	3076	SER
1	A	3077	THR
1	A	3080	ARG
1	B	90	LEU
1	B	208	VAL
1	B	209	SER
1	B	232	VAL
1	B	233	LEU
1	B	248	ILE
1	B	251	THR
1	B	342	GLU
1	B	344	HIS
1	B	358	ASP
1	B	361	THR
1	B	389	THR
1	B	390	VAL
1	B	400	TRP
1	B	409	LYS
1	B	424	LEU
1	B	427	ARG
1	B	439	THR
1	B	456	GLU
1	B	517	ILE
1	B	544	ILE
1	B	580	ARG
1	B	584	HIS
1	B	595	LEU
1	B	606	ASN
1	B	621	SER
1	B	638	MET
1	B	644	LEU
1	B	654	GLU
1	B	694	ASP
1	B	696	HIS

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Mol	Chain	Res	Type
1	B	699	ASP
1	B	791	GLU
1	B	857	VAL
1	B	1021	LEU
1	B	1096	THR
1	B	1105	ARG
1	B	1127	GLU
1	B	1162	THR
1	B	1253	ARG
1	B	1358	GLN
1	B	1401	THR
1	B	1421	GLN
1	B	1468	TYR
1	B	1471	GLU
1	B	1488	VAL
1	B	1508	ILE
1	B	1544	ILE
1	B	1551	LEU
1	B	1564	ILE
1	B	1618	LEU
1	B	1651	THR
1	B	1662	ARG
1	B	1672	GLN
1	B	1673	PHE
1	B	1745	ASP
1	B	2059	ARG
1	B	2067	LEU
1	B	2070	LEU
1	B	2192	THR
1	B	2196	VAL
1	B	2209	LEU
1	B	2294	SER
1	B	2297	ARG
1	B	2299	MET
1	B	2303	ASP
1	B	2306	TYR
1	B	2395	THR
1	B	2401	ILE
1	B	2620	THR
1	B	2692	MET
1	B	2742	THR
1	B	2784	THR

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Mol	Chain	Res	Type
1	B	2800	PHE
1	B	2802	ARG
1	B	2809	LEU
1	B	2827	LEU
1	B	2861	LEU
1	B	2871	THR
1	B	2879	LEU
1	B	2894	THR
1	B	2916	ARG
1	B	2930	LEU
1	B	2935	LYS
1	B	2962	ASP
1	B	3001	HIS
1	B	3019	ASP
1	B	3076	SER
1	B	3077	THR
1	B	3080	ARG
1	C	90	LEU
1	C	208	VAL
1	C	209	SER
1	C	232	VAL
1	C	233	LEU
1	C	248	ILE
1	C	251	THR
1	C	342	GLU
1	C	344	HIS
1	C	358	ASP
1	C	361	THR
1	C	389	THR
1	C	390	VAL
1	C	400	TRP
1	C	409	LYS
1	C	424	LEU
1	C	427	ARG
1	C	439	THR
1	C	456	GLU
1	C	517	ILE
1	C	544	ILE
1	C	580	ARG
1	C	584	HIS
1	C	595	LEU
1	C	606	ASN

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Mol	Chain	Res	Type
1	C	621	SER
1	C	638	MET
1	C	644	LEU
1	C	654	GLU
1	C	694	ASP
1	C	696	HIS
1	C	699	ASP
1	C	791	GLU
1	C	857	VAL
1	C	1021	LEU
1	C	1096	THR
1	C	1105	ARG
1	C	1127	GLU
1	C	1162	THR
1	C	1253	ARG
1	C	1358	GLN
1	C	1421	GLN
1	C	1468	TYR
1	C	1471	GLU
1	C	1488	VAL
1	C	1508	ILE
1	C	1544	ILE
1	C	1551	LEU
1	C	1564	ILE
1	C	1618	LEU
1	C	1651	THR
1	C	1662	ARG
1	C	1672	GLN
1	C	1673	PHE
1	C	1745	ASP
1	C	2059	ARG
1	C	2067	LEU
1	C	2070	LEU
1	C	2192	THR
1	C	2196	VAL
1	C	2209	LEU
1	C	2294	SER
1	C	2297	ARG
1	C	2299	MET
1	C	2303	ASP
1	C	2306	TYR
1	C	2395	THR

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Mol	Chain	Res	Type
1	C	2401	ILE
1	C	2620	THR
1	C	2692	MET
1	C	2742	THR
1	C	2784	THR
1	C	2800	PHE
1	C	2802	ARG
1	C	2809	LEU
1	C	2827	LEU
1	C	2861	LEU
1	C	2871	THR
1	C	2879	LEU
1	C	2894	THR
1	C	2916	ARG
1	C	2930	LEU
1	C	2935	LYS
1	C	2962	ASP
1	C	3001	HIS
1	C	3019	ASP
1	C	3076	SER
1	C	3077	THR
1	C	3080	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (71) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	386	ASN
1	A	486	GLN
1	A	540	ASN
1	A	585	HIS
1	A	606	ASN
1	A	1057	ASN
1	A	1134	HIS
1	A	1276	GLN
1	A	1277	HIS
1	A	1355	GLN
1	A	1582	HIS
1	A	1617	ASN
1	A	1672	GLN
1	A	2288	HIS
1	A	2334	HIS
1	A	2349	ASN

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Mol	Chain	Res	Type
1	A	2651	ASN
1	A	2699	ASN
1	A	2815	GLN
1	A	2850	HIS
1	A	2927	GLN
1	A	2942	GLN
1	A	2973	HIS
1	B	386	ASN
1	B	486	GLN
1	B	540	ASN
1	B	575	HIS
1	B	585	HIS
1	B	1057	ASN
1	B	1134	HIS
1	B	1276	GLN
1	B	1277	HIS
1	B	1355	GLN
1	B	1582	HIS
1	B	1617	ASN
1	B	1672	GLN
1	B	2288	HIS
1	B	2296	ASN
1	B	2334	HIS
1	B	2349	ASN
1	B	2651	ASN
1	B	2699	ASN
1	B	2815	GLN
1	B	2850	HIS
1	B	2927	GLN
1	B	2942	GLN
1	B	2973	HIS
1	C	386	ASN
1	C	486	GLN
1	C	540	ASN
1	C	575	HIS
1	C	585	HIS
1	C	1057	ASN
1	C	1134	HIS
1	C	1276	GLN
1	C	1277	HIS
1	C	1355	GLN
1	C	1582	HIS

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Mol	Chain	Res	Type
1	C	1617	ASN
1	C	1672	GLN
1	C	2288	HIS
1	C	2296	ASN
1	C	2334	HIS
1	C	2349	ASN
1	C	2651	ASN
1	C	2699	ASN
1	C	2815	GLN
1	C	2850	HIS
1	C	2927	GLN
1	C	2942	GLN
1	C	2973	HIS

### 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 carbohydrates 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	FMN	A	4000	-	31,33,33	1.34	4 (12%)	38,50,50	1.51	6 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	FMN	B	4000	-	31,33,33	1.35	4 (12%)	38,50,50	1.50	6 (15%)
2	FMN	C	4000	-	31,33,33	1.36	4 (12%)	38,50,50	1.49	6 (15%)
2	FMN	D	4000	-	31,33,33	1.35	4 (12%)	38,50,50	1.51	6 (15%)
2	FMN	E	4000	-	31,33,33	1.36	4 (12%)	38,50,50	1.50	6 (15%)
2	FMN	F	4000	-	31,33,33	1.35	4 (12%)	38,50,50	1.49	6 (15%)

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	FMN	A	4000	-	-	0/16/18/18	0/3/3/3
2	FMN	B	4000	-	-	0/16/18/18	0/3/3/3
2	FMN	C	4000	-	-	0/16/18/18	0/3/3/3
2	FMN	D	4000	-	-	0/16/18/18	0/3/3/3
2	FMN	E	4000	-	-	0/16/18/18	0/3/3/3
2	FMN	F	4000	-	-	0/16/18/18	0/3/3/3

All (24) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	4000	FMN	C5A-N5	2.29	1.38	1.35
2	A	4000	FMN	C5A-N5	2.30	1.38	1.35
2	B	4000	FMN	C5A-N5	2.30	1.38	1.35
2	D	4000	FMN	C5A-N5	2.36	1.38	1.35
2	C	4000	FMN	C5A-N5	2.37	1.38	1.35
2	F	4000	FMN	C5A-N5	2.37	1.38	1.35
2	B	4000	FMN	C4-N3	3.12	1.38	1.33
2	A	4000	FMN	C4-N3	3.14	1.38	1.33
2	F	4000	FMN	C4-N3	3.14	1.38	1.33
2	D	4000	FMN	C4-N3	3.14	1.38	1.33
2	E	4000	FMN	C4-N3	3.15	1.38	1.33
2	C	4000	FMN	C4-N3	3.20	1.38	1.33
2	A	4000	FMN	C10-N1	3.21	1.37	1.33
2	F	4000	FMN	C10-N1	3.21	1.37	1.33
2	B	4000	FMN	C10-N1	3.23	1.37	1.33
2	D	4000	FMN	C10-N1	3.24	1.37	1.33
2	E	4000	FMN	C10-N1	3.25	1.37	1.33
2	C	4000	FMN	C10-N1	3.29	1.37	1.33
2	A	4000	FMN	C4A-N5	3.72	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	4000	FMN	C4A-N5	3.72	1.38	1.33
2	C	4000	FMN	C4A-N5	3.72	1.38	1.33
2	F	4000	FMN	C4A-N5	3.72	1.38	1.33
2	E	4000	FMN	C4A-N5	3.77	1.38	1.33
2	B	4000	FMN	C4A-N5	3.79	1.38	1.33

All (36) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	4000	FMN	C4A-C4-N3	-2.59	119.80	123.48
2	D	4000	FMN	C4A-C4-N3	-2.59	119.80	123.48
2	F	4000	FMN	C4A-C4-N3	-2.58	119.81	123.48
2	C	4000	FMN	C4A-C4-N3	-2.58	119.81	123.48
2	E	4000	FMN	C4A-C4-N3	-2.58	119.82	123.48
2	B	4000	FMN	C4A-C4-N3	-2.56	119.84	123.48
2	C	4000	FMN	C4-C4A-N5	2.47	121.39	118.68
2	F	4000	FMN	C4-C4A-N5	2.47	121.39	118.68
2	A	4000	FMN	C4-C4A-N5	2.52	121.45	118.68
2	D	4000	FMN	C4-C4A-N5	2.52	121.45	118.68
2	B	4000	FMN	C4-C4A-N5	2.52	121.45	118.68
2	E	4000	FMN	C4-C4A-N5	2.54	121.47	118.68
2	E	4000	FMN	C5A-C9A-N10	2.80	119.74	117.66
2	F	4000	FMN	C5A-C9A-N10	2.86	119.78	117.66
2	A	4000	FMN	C5A-C9A-N10	2.87	119.79	117.66
2	D	4000	FMN	C5A-C9A-N10	2.88	119.80	117.66
2	C	4000	FMN	C5A-C9A-N10	2.88	119.80	117.66
2	B	4000	FMN	C5A-C9A-N10	2.90	119.81	117.66
2	C	4000	FMN	C4A-N5-C5A	2.97	119.90	116.76
2	F	4000	FMN	C4A-N5-C5A	2.97	119.90	116.76
2	B	4000	FMN	C4A-N5-C5A	2.98	119.90	116.76
2	D	4000	FMN	C4A-N5-C5A	3.00	119.93	116.76
2	A	4000	FMN	C4A-N5-C5A	3.01	119.94	116.76
2	E	4000	FMN	C4A-N5-C5A	3.02	119.95	116.76
2	F	4000	FMN	C1'-N10-C9A	3.09	121.18	118.35
2	B	4000	FMN	C1'-N10-C9A	3.13	121.22	118.35
2	E	4000	FMN	C1'-N10-C9A	3.13	121.22	118.35
2	D	4000	FMN	C1'-N10-C9A	3.13	121.22	118.35
2	C	4000	FMN	C1'-N10-C9A	3.15	121.23	118.35
2	A	4000	FMN	C1'-N10-C9A	3.16	121.24	118.35
2	C	4000	FMN	C4-N3-C2	5.63	120.08	115.16
2	F	4000	FMN	C4-N3-C2	5.64	120.09	115.16
2	E	4000	FMN	C4-N3-C2	5.66	120.11	115.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	4000	FMN	C4-N3-C2	5.68	120.13	115.16
2	A	4000	FMN	C4-N3-C2	5.71	120.15	115.16
2	D	4000	FMN	C4-N3-C2	5.71	120.15	115.16

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 14 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	4000	FMN	5	0
2	B	4000	FMN	5	0
2	C	4000	FMN	4	0

## 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.