



Full wwPDB EM Validation Report ⓘ

Nov 20, 2022 – 01:48 am GMT

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 : 2012-12-06
Resolution : 7.50 Å (reported)
Based on initial model : 2UV8

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

EMDB validation analysis : 0.0.1.dev43
Mogul : 1.8.4, CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.2

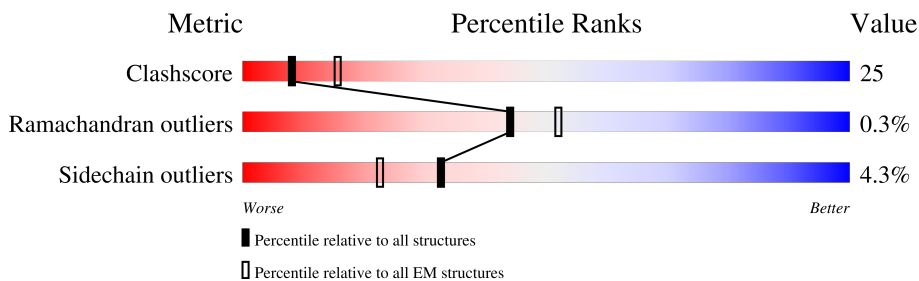
1 Overall quality at a glance

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	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	3089	
1	B	3089	
1	C	3089	
1	D	3089	
1	E	3089	
1	F	3089	

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
			Total	C	N	O	S		
1	D	2822	21020	13294	3662	3998	66	0	0
1	E	2822	21020	13294	3662	3998	66	0	0
1	F	2822	21020	13294	3662	3998	66	0	0
1	A	2822	21020	13294	3662	3998	66	0	0
1	B	2822	21020	13294	3662	3998	66	0	0
1	C	2822	21020	13294	3662	3998	66	0	0

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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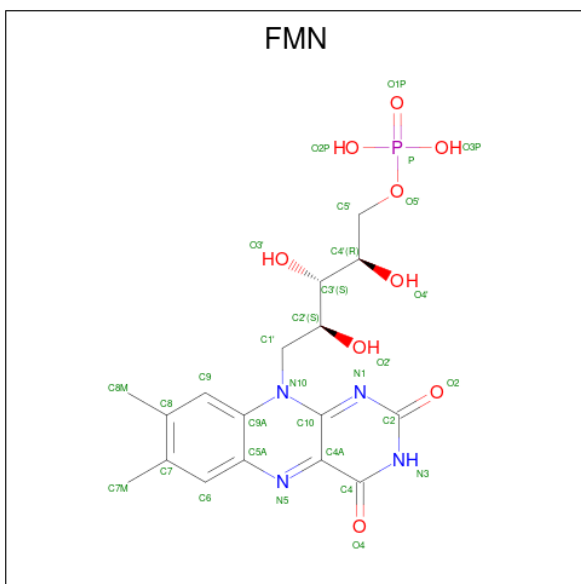
Chain	Residue	Modelled	Actual	Comment	Reference
C	2108	UNK	LEU	conflict	UNP A0R1H7
C	2109	UNK	ALA	conflict	UNP A0R1H7
C	2110	UNK	ALA	conflict	UNP A0R1H7
C	2111	UNK	GLY	conflict	UNP A0R1H7
C	2112	UNK	ARG	conflict	UNP A0R1H7
C	2113	UNK	ASN	conflict	UNP A0R1H7
C	2114	UNK	VAL	conflict	UNP A0R1H7
C	2115	UNK	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: C₁₇H₂₁N₄O₉P).



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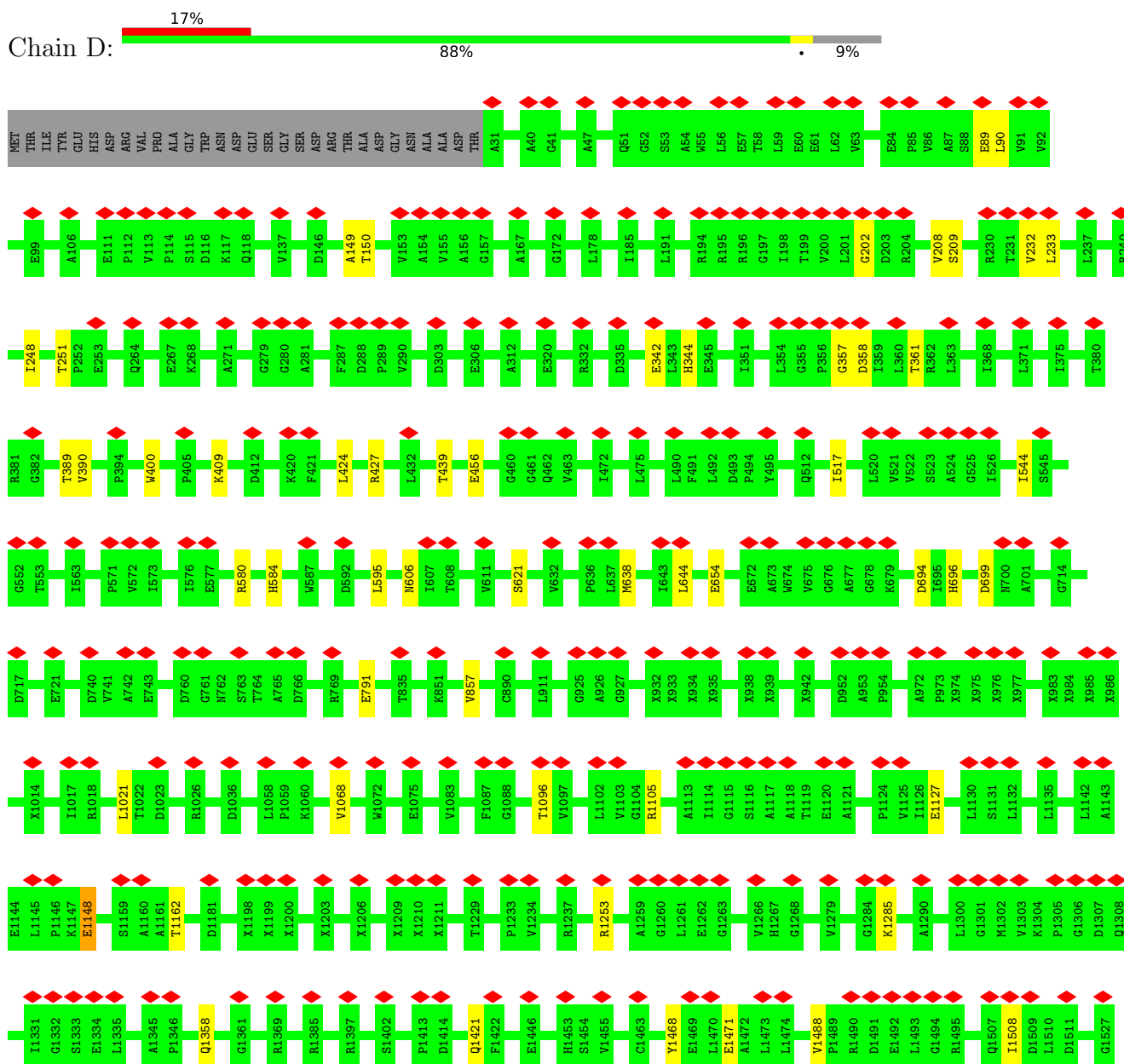
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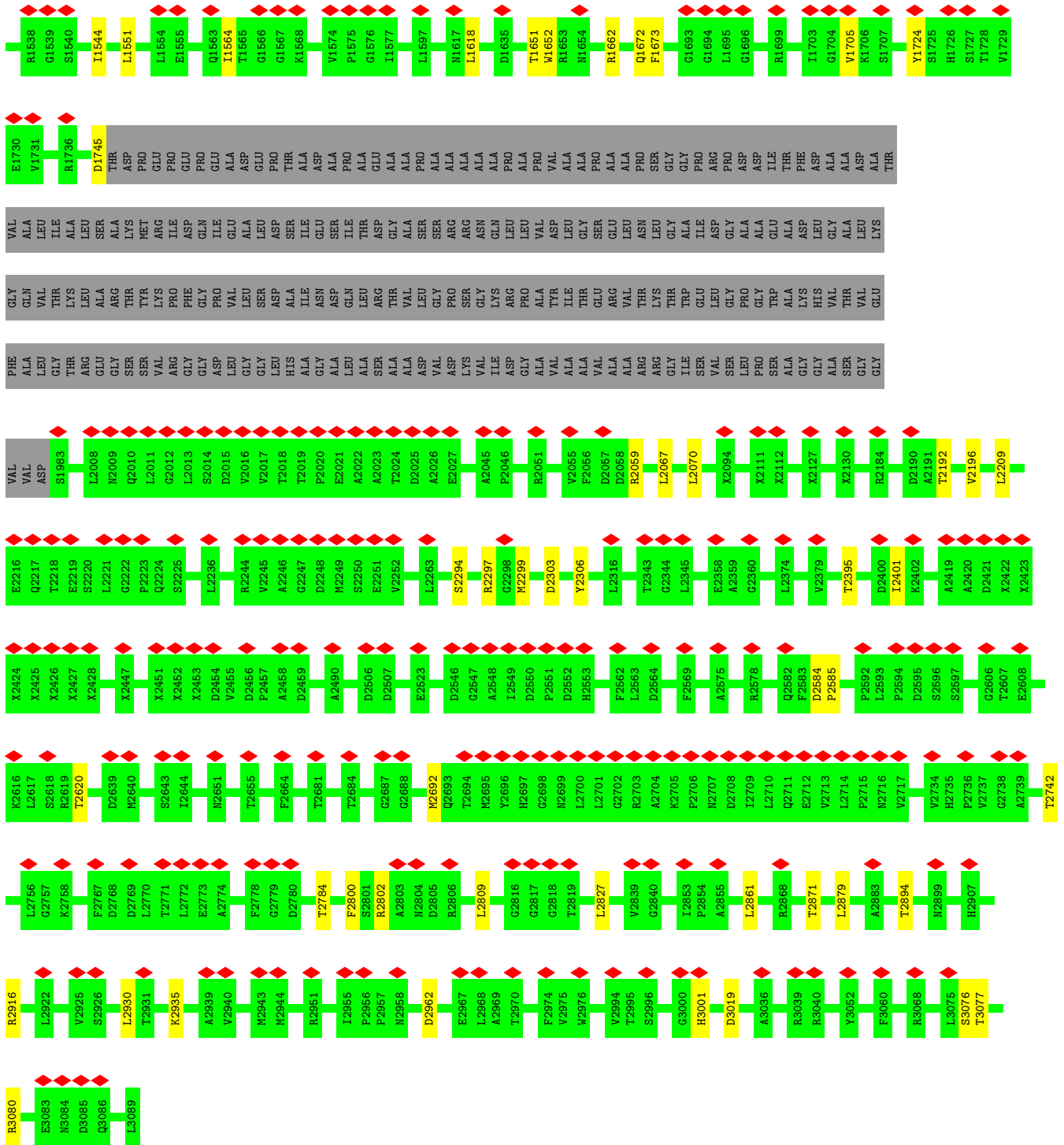
Mol	Chain	Residues	Atoms					AltConf
2	F	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	A	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	B	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	C	1	Total	C	N	O	P	0
			31	17	4	9	1	

3 Residue-property plots [i](#)

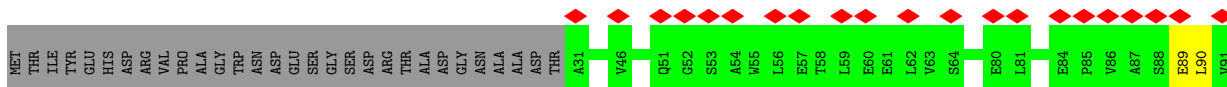
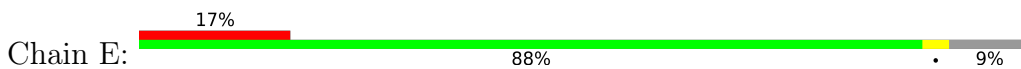
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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.

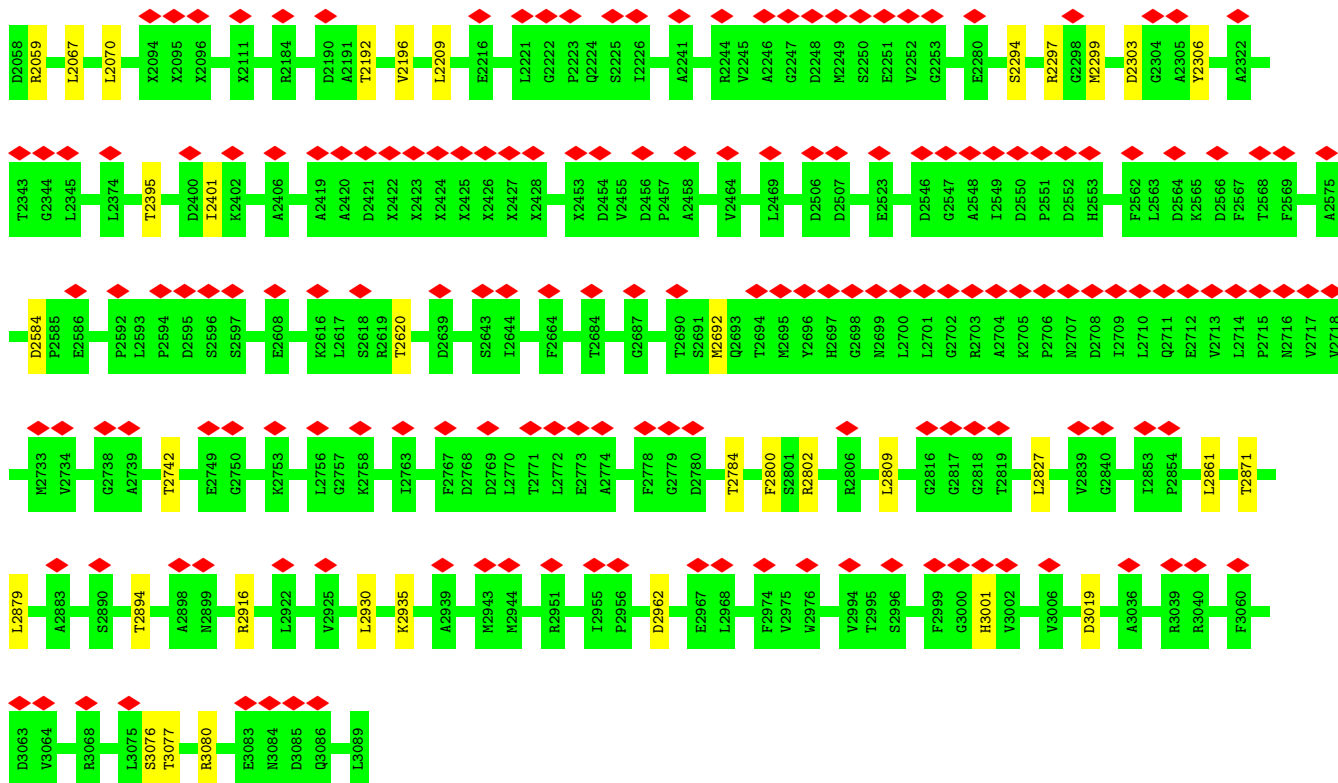
- Molecule 1: FATTY ACID SYNTHASE



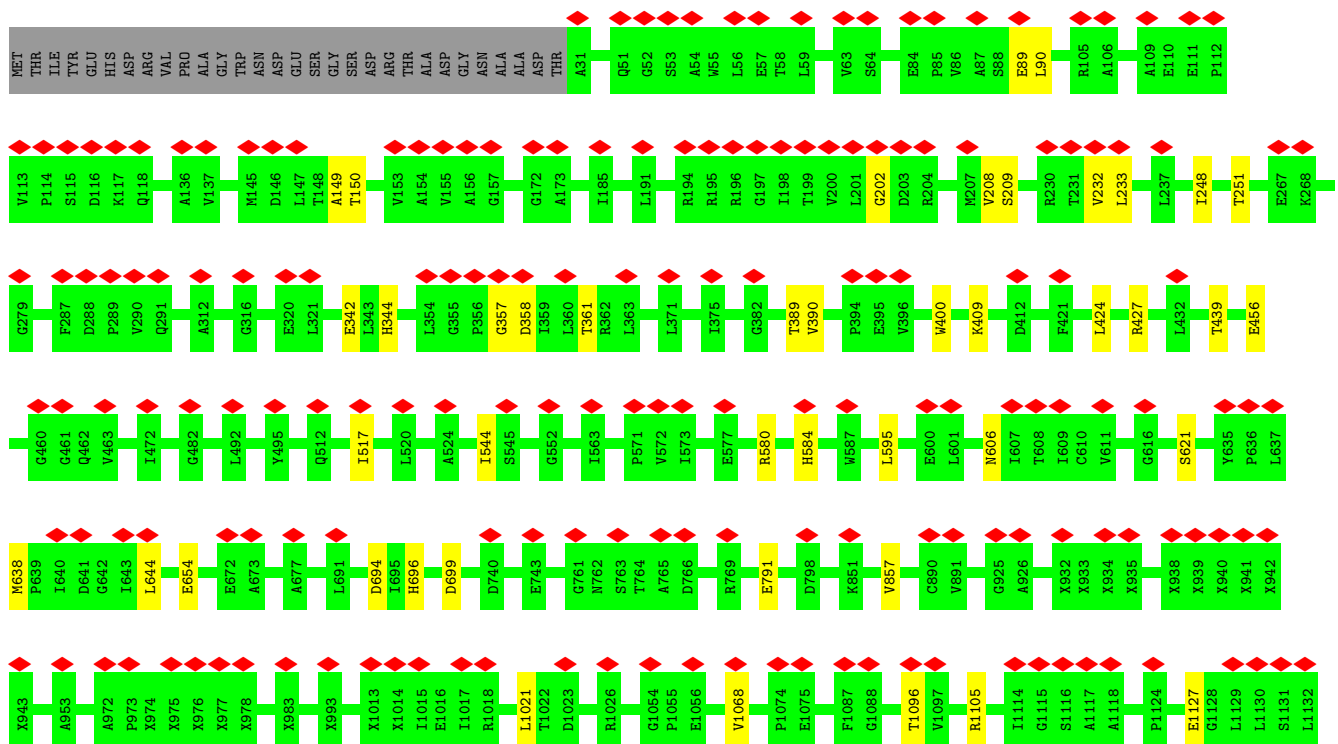
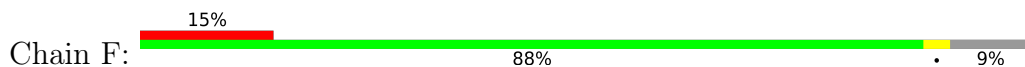


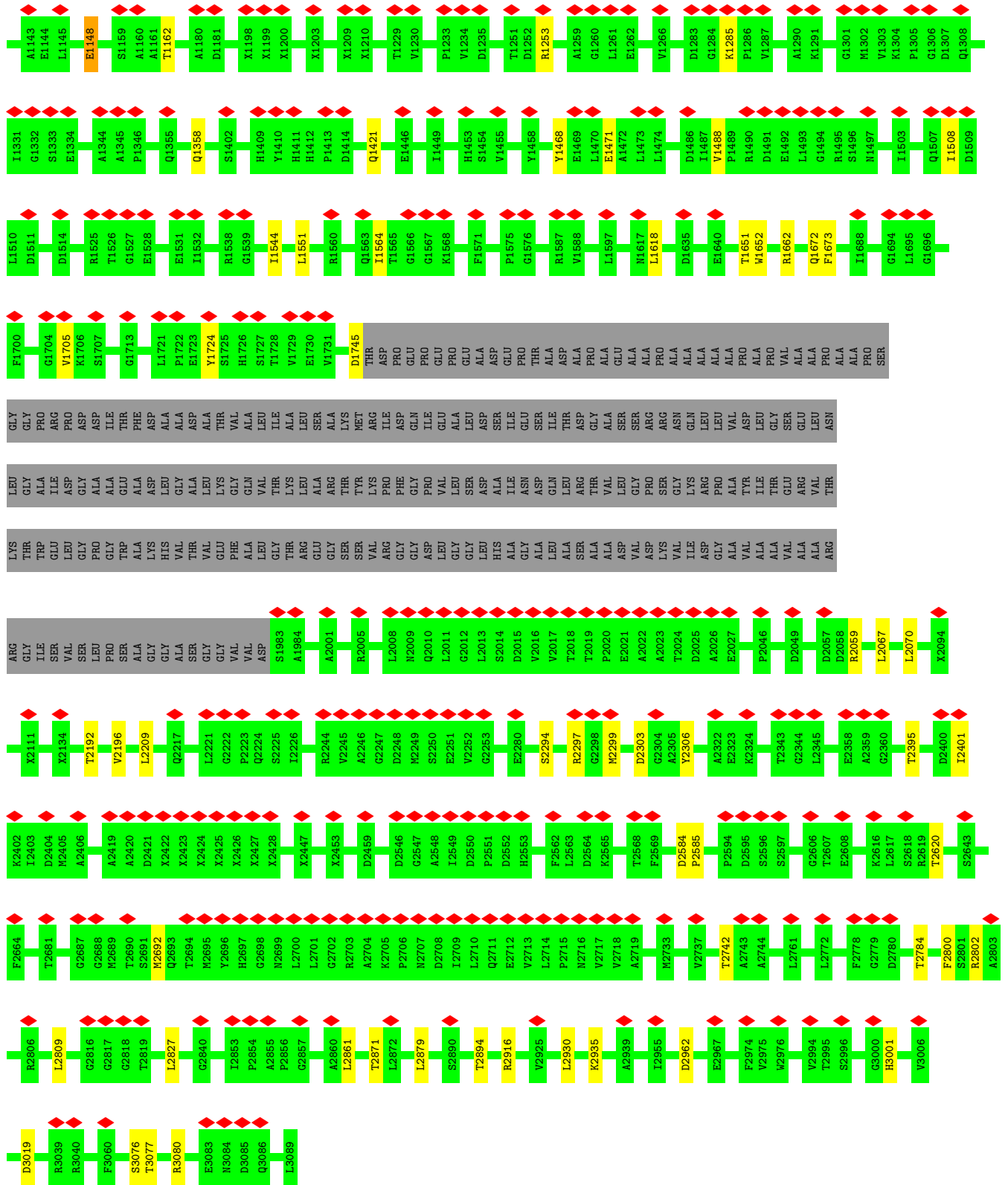
• Molecule 1: FATTY ACID SYNTHASE





• Molecule 1: FATTY ACID SYNTHASE





• Molecule 1: FATTY ACID SYNTHASE

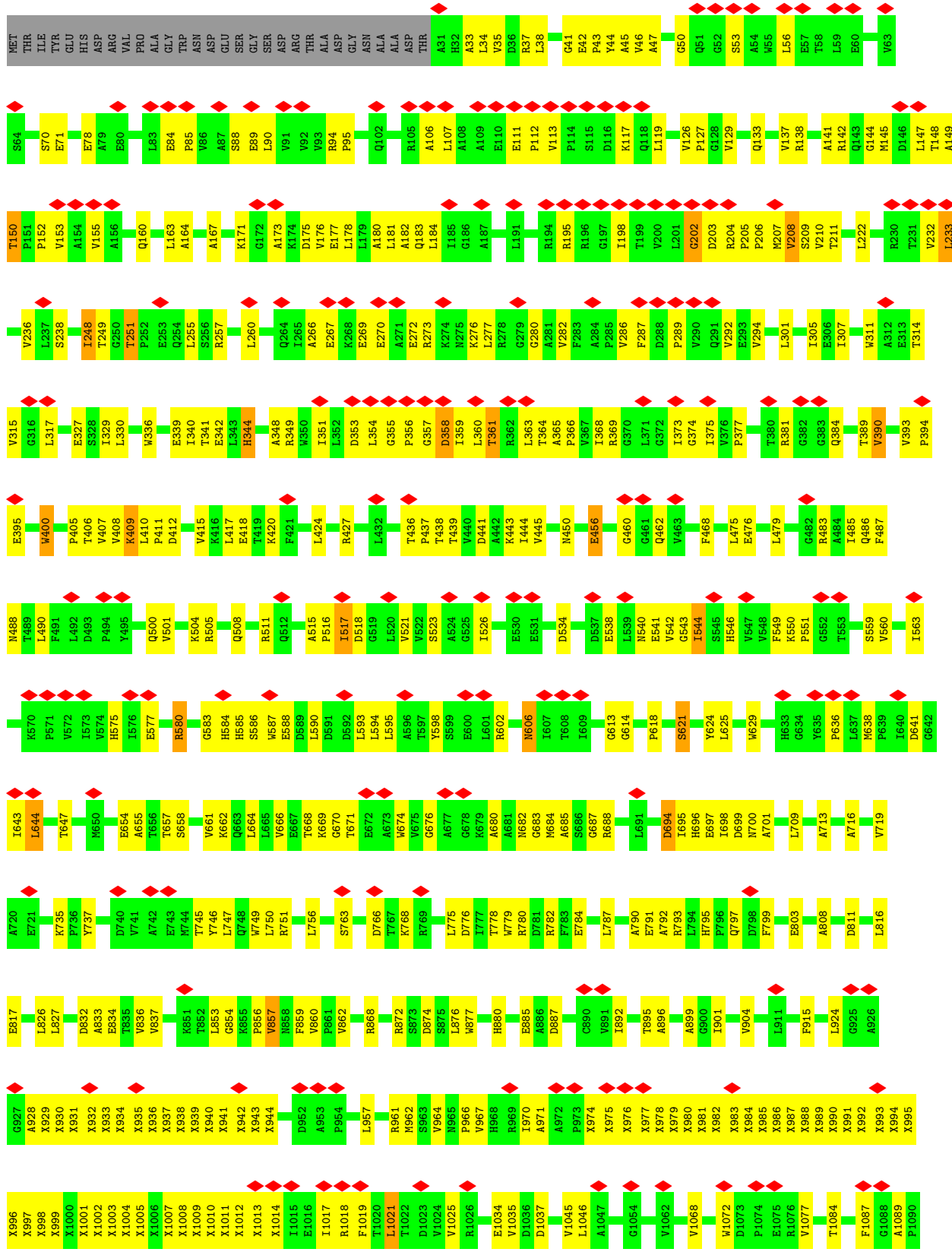


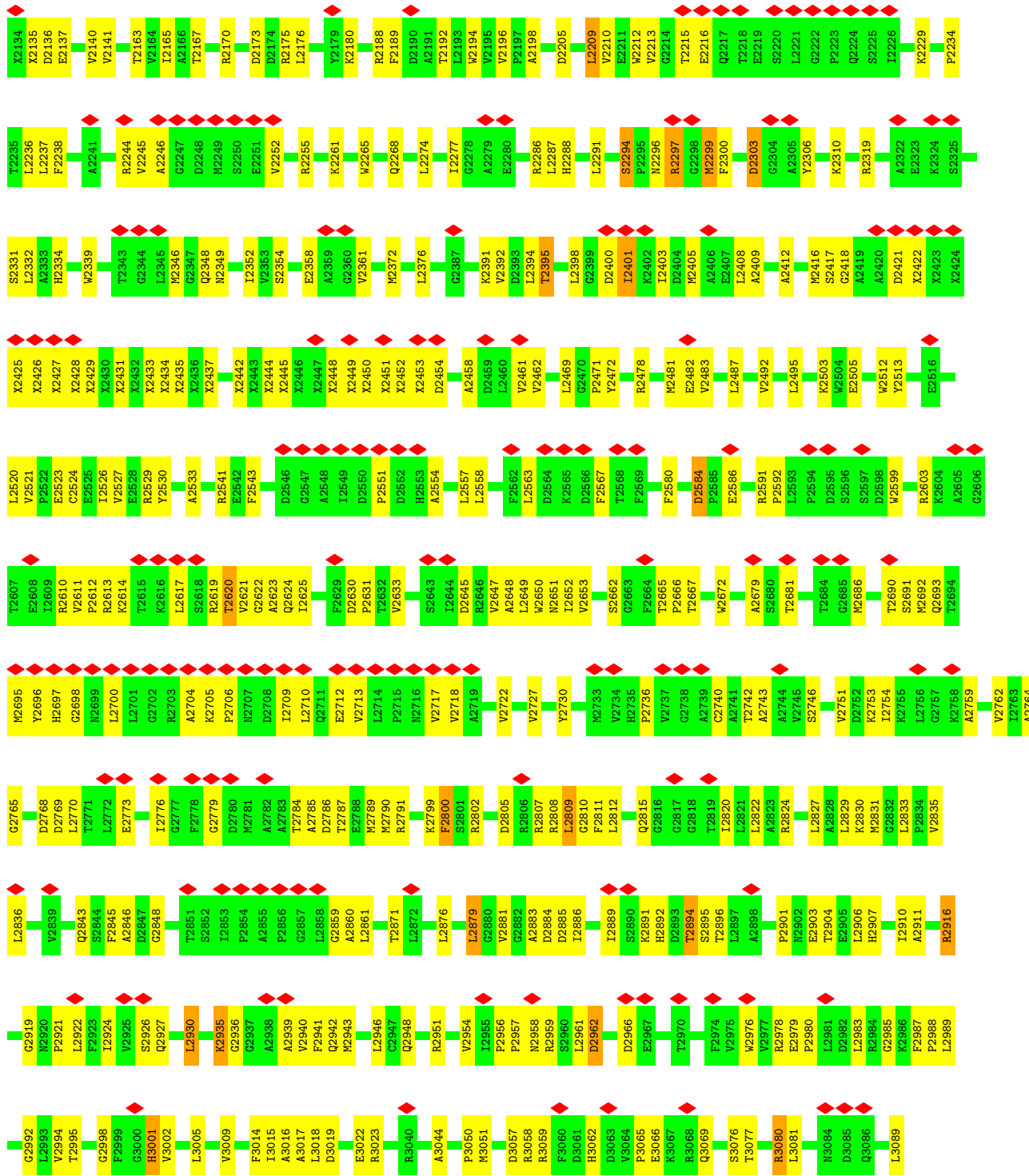
MET	THR	ILE	TYR	GLU	HIS	ASP	ARG	VAL	PRO	ALA	GLY	TRP	ASN	ASP	GLU	SER	GLY	SER	ASP	THR	ALA	ALA	ASP	THR	A31	H32	A33	L34	V35	D36	R37	L38	G41	E42	P43	T44	A45	V46	A47	Q51	G52	S53	A54	A55	L56	E57	T58	L59	E60	E61	L62	V63		
S64	L147	T148	A149	T150	F151	A152	V153	A154	V155	A156	Q160	L163	A164	V165	Q166	A167	K171	G172	A173	D175	V176	E177	L178	R179	A180	L181	A182	Q183	L184	A187	A188	L191	R194	R195	R196	G197	I198	T199	V200	L201	G202	D203	R204	P205	P206	M207	V208	S209	V210	T211	L222			
R230	T231	V232	L233	V236	L237	S238	I248	T249	G250	T251	P252	E253	Q254	L255	S256	R257	L260	Q264	I265	A266	E267	K268	E269	E270	A271	E272	R273	K274	N275	K276	L277	R278	G279	G280	A281	V282	F283	A284	V285	V286	F287	D288	P289	V290	Q291	V292	E293	V294	L301	L305	E306	I307		
W311	T314	V315	G316	L317	E327	S328	I329	L330	V331	R332	W336	E339	I340	T341	E342	L343	H344	A348	R349	W350	L351	L352	D353	L354	G355	P356	G357	D358	V440	L359	L360	T361	L363	T364	A365	P366	V367	I368	R369	G370	L371	G372	L373	G374	L375	P376	V377	T380	G382	Q384				
T389	V390	V393	P394	E395	W400	P405	T406	D493	V407	V408	K409	L410	P411	D412	K500	V501	K504	V505	Q508	R511	Q512	L593	P516	L517	D518	G519	L520	V521	V522	S523	A524	D441	K442	K443	I444	V445	M450	L539	N540	E541	V542	C543	I344	S545	H546	F549	K550	P551	G552	T553	V554	E555	S559	V560
R483	A484	L485	Q486	F487	M488	F489	L490	F491	L492	D493	P494	Y495	G583	H584	H585	S586	M587	E588	D589	L590	D591	D592	L593	L594	L595	A596	V597	Y598	L599	E600	L601	R602	N606	L607	T608	L609	C610	V611	G612	G613	G614	F618	S619	R620	S621	L624	L625	M629	W632	H633	G634	Y635	P636	
L637	M638	P639	L640	D641	A716	L643	L644	T647	M650	A651	E654	A655	T656	G657	S658	W661	K662	G663	L664	L665	V666	E667	T668	K669	W670	G671	E672	A673	W674	G675	G676	A677	K678	G679	A680	A681	N682	G683	M684	A685	S686	G687	R688	L691	D694	L695	H696	E697	L698	D699	W700	A701		
L709	A713	G714	D715	A716	D717	A718	V719	A720	E721	D724	K735	F736	Y737	D740	V741	A742	E743	M744	T745	Y746	L747	Q748	W749	L750	R751	L756	S763	V765	G766	A677	K678	R769	W774	L775	D776	L777	T778	W779	R780	D781	A886	D887	C890	V891	I892	T895	A896	E791	A792	R793	L794	H795		
P796	Q797	D798	F799	E803	A808	D811	L816	E817	L826	L827	D832	A833	E834	T835	V836	W837	K851	T852	L853	G854	K855	R856	W857	R858	F859	P860	H861	V862	R868	R872	S873	D874	L876	W877	H880	F884	E885	A886	D887	C890	V891	I892	T895	A896	E791	A792	R793	L794	H795					
A899	G900	I901	V904	L911	F915	L924	G925	A926	G927	A928	X929	X930	X931	X932	X933	X934	X935	X936	X937	X938	X939	X940	X941	X942	X943	X944	L947	D952	A953	P954	L957	R961	M962	S963	V964	V965	P966	V967	H968	A969	I970	A971	A972	P973	X974	X975	X976	X977	X978	X979	X980			
X981	X982	X983	X984	X985	X986	X987	X988	X989	X990	X991	X992	X993	X994	X995	X1000	X1001	X1002	X1003	X1004	X1005	X1006	X1007	X1008	X1009	X1010	X1011	X1012	X1013	X1014	I1017	R1018	F1019	T1020	L1022	D1023	V1024	V1025	R1026	E1034	V1035	D1036	D1037	V1045	L1046	V1068	T1069	V1070	D1071	W1072					



● Molecule 1: FATTY ACID SYNTHASE



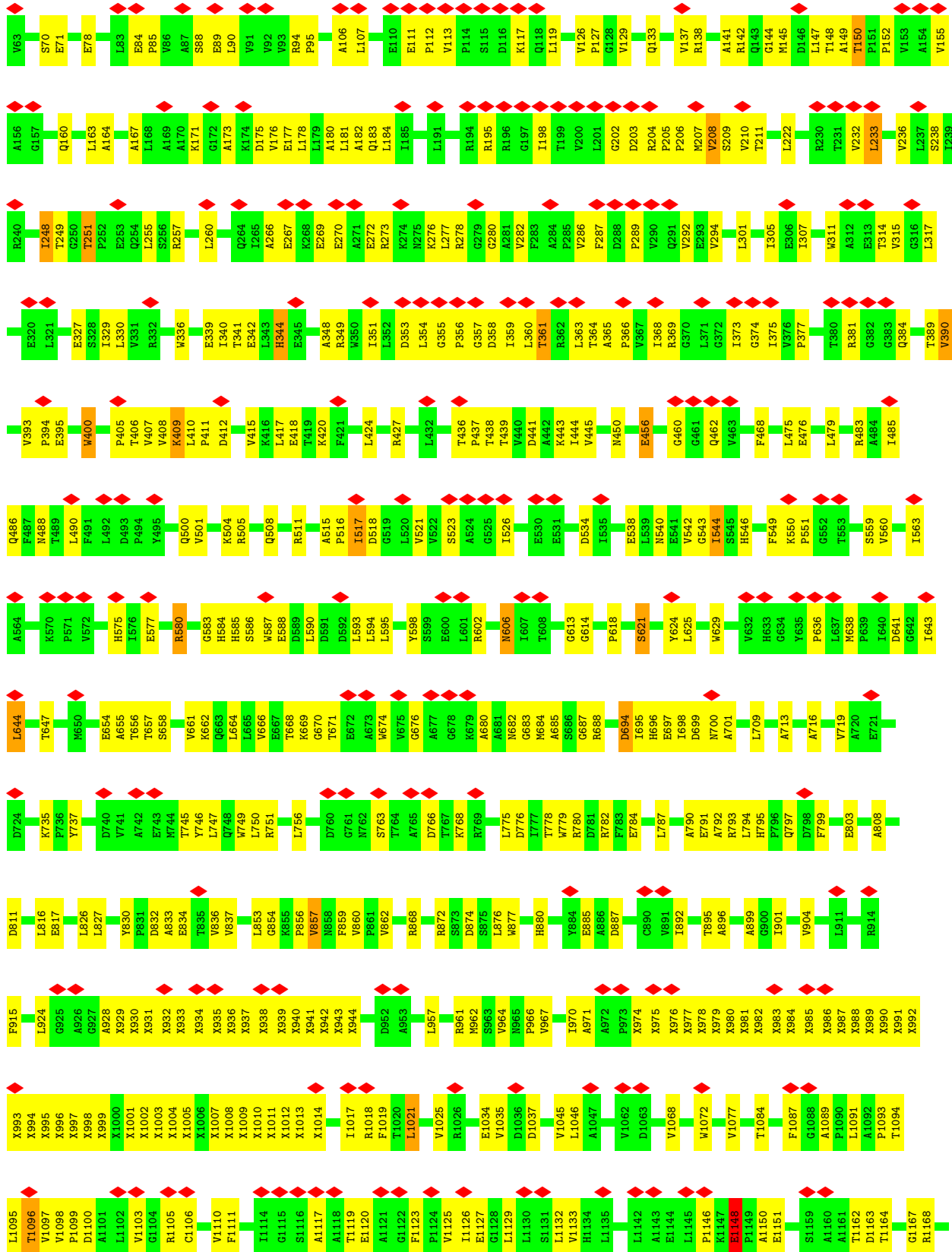


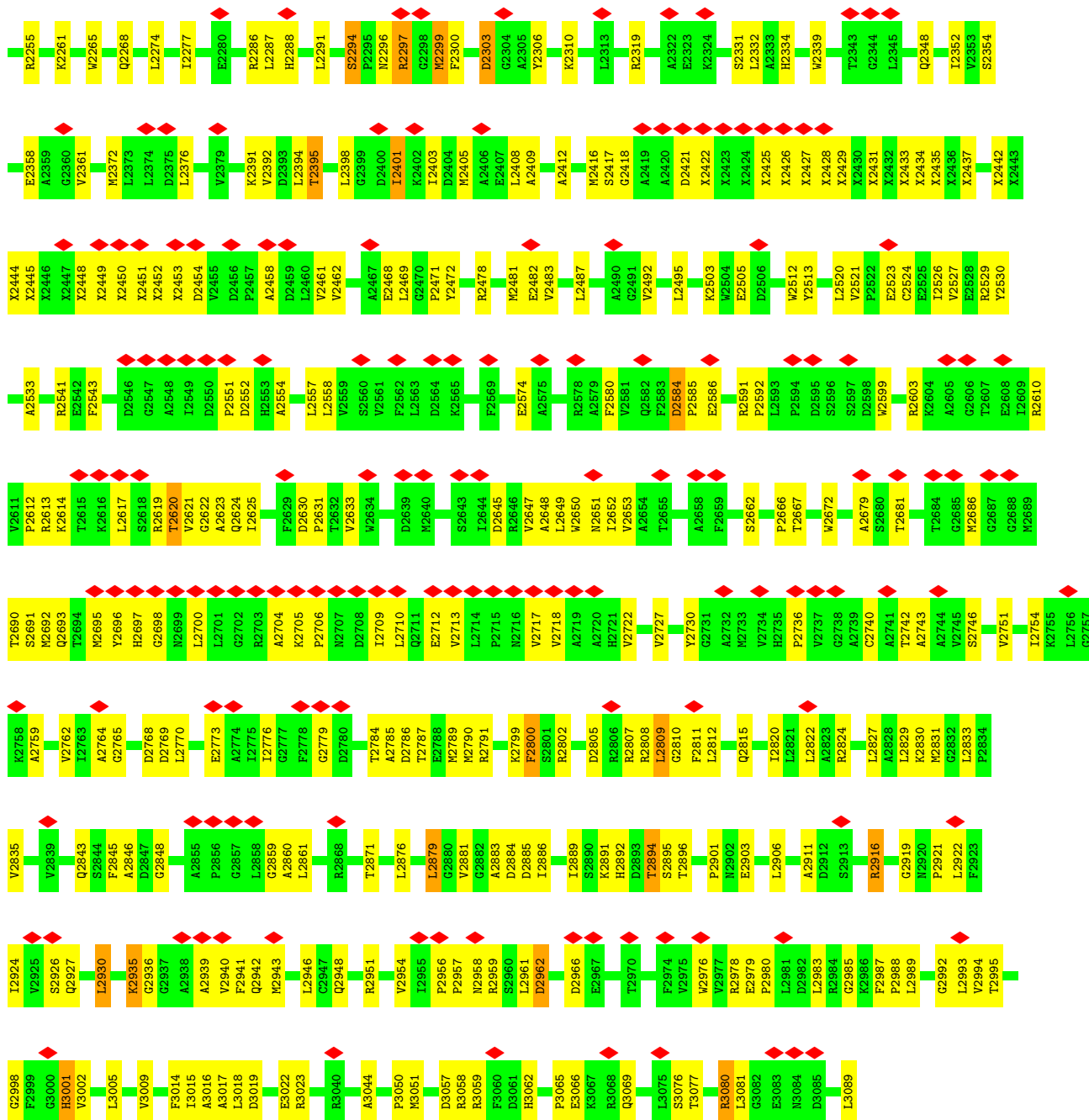


• Molecule 1: FATTY ACID SYNTHASE



MET	G2992	G2919	L2836	G2765	M2695	L2620	X2425	S2331	T2295
THR	L2993	M2920	V2839	D2768	Y2696	V2521	X2426	L2332	L2236
ILE	V2994	P2921	V2840	D2769	H2697	P2522	X2427	L2237	L2237
GLU	T2995	L2922	Q2843	L2770	G2698	E2523	X2428	F2238	F2238
HIS	G2998	F2923	Q2844	T2771	M2699	E2524	X2429	A2241	A2241
ASP	F2999	L2924	F2845	L2772	L2700	V2525	X2430	R2244	R2244
ARG	G3000	V2925	A2846	E2773	L2701	V2526	X2431	V2245	V2245
VAL	H3001	S2926	D2847	E2774	G2702	V2527	X2432	A2246	A2246
PRO	V3002	Q2927	G2848	T2775	R2703	R2528	X2433	G2247	G2247
ALA	L3005	L2930	T2851	L2776	A2704	A2533	X2434	D2248	D2248
GLY	V3009	K2855	S2852	G2777	R2705	R2541	X2435	M2249	M2249
TRP	V3014	G2937	P2854	F2778	K2706	E2542	X2436	S2250	S2250
ASN	F3015	A2938	A2855	D2780	V2620	F2543	X2437	E2251	E2251
ASP	L3016	A2939	A2856	M2781	G2622	D2546	X2442	V2252	V2252
GLU	A3017	V2940	P2857	A2782	G2623	G2547	X2443	R2255	R2255
SER	L3018	F2941	L2858	A2783	Q2624	A2548	X2444	K2261	K2261
SER	A3019	Q2942	G2859	T2784	I2709	I2549	X2445	W2265	W2265
ARG	E3022	M2943	A2860	A2785	G2712	D2548	X2446	Q2268	Q2268
THR	R3023	L2946	L2861	D2786	E2713	A2548	X2447	L2274	L2274
ALA	R3040	C2947	T2871	T2787	F2629	I2549	X2448	I2277	I2277
ASP	A3044	Q2948	L2872	L2713	D2630	D2550	X2449	G2278	G2278
ASN	P3050	R2951	L2876	V2714	P2631	P2551	X2450	A2279	A2279
ALA	M3051	V2954	L2879	E2715	D2632	D2552	X2451	E2280	E2280
ASP	D3057	I2955	G2880	M2716	V2633	A2554	X2452	R2286	R2286
GLY	R3058	P2956	V2881	T2644	S2643	L2557	D2454	L2287	L2287
THR	L3059	G2957	G2882	D2645	D2644	L2558	A2458	H2288	H2288
ASP	R3060	F2958	R2883	V2647	V2647	P2559	D2459	L2291	L2291
GLY	F3061	P2959	A2884	A2648	A2648	F2562	D2460	S2294	S2294
ASP	H3062	M2960	R2885	L2649	L2649	L2563	L2461	P2295	P2295
THR	D3063	L2961	D2886	M2650	M2650	D2564	V2461	N2296	N2296
GLY	V3064	D2962	L2889	I2651	I2651	K2565	L2394	R2297	R2297
ILE	P3065	D2966	S2890	V2652	V2653	L2469	M2405	G2298	G2298
LEU	E3066	E2967	K2891	S2662	S2662	G2470	A2406	M2299	M2299
VAL	K3067	T2970	H2892	G2663	G2663	P2471	E2407	F2300	F2300
THR	R3068	T2971	G2893	F2664	F2664	Y2472	L2408	D2303	D2303
GLY	Q3069	F2974	L2894	T2665	T2665	F2567	L2409	G2304	G2304
ASP	S3076	W2975	L2897	V2666	V2666	T2568	A2412	A2305	A2305
THR	T3077	W2976	A2898	T2667	T2667	F2569	M2416	Y2306	Y2306
GLY	R3080	V2977	L2822	T2668	T2668	F2580	K2418	K2310	K2310
ASP	L3081	E2978	A2823	G2685	G2685	D2584	G2418	R2319	R2319
THR	N3084	P2980	R2824	W2686	W2686	P2585	A2419	A2322	A2322
GLY	D3085	G2981	L2827	T2690	T2690	P2586	D2420	E2323	E2323
ASP	Q3086	E2982	A2828	S2691	S2691	E2586	L2421	K2324	K2324
THR	L3089	H2907	K2830	W2692	W2692	E2588	X2422	S2325	S2325
ASP	E3090	L2908	M2831	L2754	L2754	E2589	D2423	F2326	F2326
GLY	R3091	G2909	L2832	T2755	T2755	W2599	A2424	A2327	A2327
THR	N3094	T2910	G2833	L2756	L2756	R2603	X2425	E2328	E2328
ASP	D3095	A2911	L2834	Q2693	Q2693	A2605	X2426	S2329	S2329
GLY	Q3096	L2989	V2835	T2694	T2694	G2606	X2427	F2330	F2330





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D3	Depositor
Number of particles used	106884	Depositor
Resolution determination method	Not provided	
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
Maximum map value	14.936	Depositor
Minimum map value	-7.793	Depositor
Average map value	-0.133	Depositor
Map value standard deviation	1.076	Depositor
Recommended contour level	2.7	Depositor
Map size (\AA)	392.0, 392.0, 392.0	wwPDB
Map dimensions	160, 160, 160	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	2.45, 2.45, 2.45	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 >5	RMSZ	# Z >5
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 [\(i\)](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	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:934:UNK:O	1:C:937:UNK:HG3	1.57	1.04
1:C:981:UNK:HG1	1:C:987:UNK:HG2	1.37	1.04
1:A:934:UNK:O	1:A:937:UNK:HG3	1.58	1.03
1:B:934:UNK:O	1:B:937:UNK:HG3	1.57	1.02
1:B:981:UNK:HG1	1:B:987:UNK:HG2	1.37	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:A:2094:UNK:CG	1:A:2096:UNK:HG3	1.90	1.00
1:C:932:UNK:O	1:C:936:UNK:HG2	1.61	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:HH11	1:A:3080:ARG:HG3	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:HH11	1:C:3080:ARG:HG3	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:HH11	1:B:3080:ARG:HG3	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:939:UNK:O	1:C:940:UNK:HG3	1.70	0.91
1:C:1012:UNK:O	1:C:1013:UNK:HG3	1.69	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:943:UNK:O	1:C:944:UNK:HG3	1.71	0.90
1:C:1013:UNK:HG2	1:C:1014:UNK:N	1.84	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:981:UNK:CG	1:B:987:UNK:HG2	2.02	0.88
1:B:2103:UNK:HG2	1:B:2104:UNK:N	1.89	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:928:ALA:HB1	1:B:931:UNK:HB1	1.55	0.87
1:B:2434:UNK:HG3	1:B:2524:CYS:HA	1.54	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:992:UNK:CG	1:A:994:UNK:HG3	2.05	0.86
1:A:2126:UNK:O	1:A:2129:UNK:HG3	1.75	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:992:UNK:CG	1:B:994:UNK:HG3	2.05	0.85
1:B:2081:UNK:O	1:B:2084:UNK:HG3	1.76	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:935:UNK:O	1:A:939:UNK:HG3	1.77	0.85
1:A:1218:UNK:HG2	1:A:1441:GLN:OE1	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:999:UNK:O	1:C:1007:UNK:HG3	1.80	0.82
1:C:1538:ARG:HH11	1:C:1722:PRO:HB3	1.43	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:A:2093:UNK:CG	1:A:2129:UNK:O	2.27	0.81
1:A:2105:UNK:O	1:A:2108:UNK:CG	2.25	0.81
1:B:43:PRO:HG2	1:B:348:ALA:HA	1.60	0.81
1:B:999:UNK:O	1:B:1007:UNK:HG3	1.80	0.81
1:B:2730:TYR:OH	1:B:3059:ARG:NH1	2.14	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:995:UNK:HB1	1:C:1011:UNK:HG3	1.63	0.78
1:C:2610:ARG:HH12	1:C:2700:LEU:HD11	1.47	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:971:ALA:O	1:A:974:UNK:HG3	1.84	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: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:930:UNK:O	1:A:930:UNK:HG2	1.83	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: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:931:UNK:HG1	1:C:933:UNK:HG2	1.65	0.77
1:C:1329:ALA:HB3	1:C:1337:MET:H	1.49	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:931:UNK:CG	1:A:933:UNK:HG2	2.15	0.76
1:A:2610:ARG:HH12	1:A:2700:LEU:HD11	1.47	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:944:UNK:O	1:B:944:UNK:HG2	1.85	0.75
1:B:2418:GLY:O	1:B:2422:UNK:HG3	1.87	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: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:2418:GLY:O	1:C:2422:UNK:HG3	1.87	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:445:VAL:HG13	1:B:475:LEU:HD21	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1212:UNK:HG2	1:B:1342:ARG:NH2	2.02	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:33:ALA:HB2	1:A:390:VAL:HA	1.70	0.74
1:A:1556:GLU:OE2	1:A:1560:ARG:NH2	2.20	0.74
1:B:940:UNK:O	1:B:940:UNK:HG2	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:994:UNK:HG2	1:A:996:UNK:HG3	1.70	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: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:33:ALA:HB2	1:B:390:VAL:HA	1.69	0.74
1:B:1212:UNK:CG	1:B:1342:ARG:HE	2.01	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:934:UNK:O	1:B:937:UNK:CG	2.34	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: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: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:C:2053:ALA:O	1:C:2807:ARG:NH2	2.21	0.73
1:B:2093:UNK:HA	1:B:2097:UNK:CG	2.19	0.73
1:C:992:UNK:HG2	1:C:994:UNK:CG	2.17	0.73
1:C:1001:UNK:O	1:C:1002:UNK:HG3	1.88	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:936:UNK:HB1	1:C:941:UNK:HB1	1.71	0.72
1:C:2883:ALA:O	1:C:2916:ARG:NH1	2.22	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:1226:UNK:HG3	1:C:1313:VAL:HG12	1.70	0.72
1:C:1253:ARG:HH11	1:C:1253:ARG:HG3	1.54	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: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:A:2088:UNK:O	1:A:2091:UNK:CG	2.35	0.72
1:B:936:UNK:HB1	1:B:941:UNK:HB1	1.71	0.72
1:B:2121:UNK:O	1:B:2124:UNK:HG3	1.90	0.72
1:A:70:SER:OG	1:A:142:ARG:NH2	2.23	0.72
1:A:445:VAL:HG13	1:A:475:LEU:HD21	1.69	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: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:HH11	1:A:1253:ARG:HG3	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:1237:ARG:NH1	1:B:95:PRO:HB2	2.05	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:1237:ARG:NH1	1:C:95:PRO:HB2	2.05	0.71
1:B:2268:GLN:OE1	1:B:2319:ARG:NH1	2.23	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:976:UNK:HG3	1:A:993:UNK:CB	2.19	0.71
1:A:982:UNK:HG2	1:A:983:UNK:N	2.05	0.71
1:B:976:UNK:HG3	1:B:993:UNK:CB	2.19	0.71
1:B:982:UNK:HG2	1:B:983:UNK:N	2.05	0.71
1:B:2998:GLY:N	1:B:3002:VAL:O	2.23	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:982:UNK:HG2	1:C:983:UNK:N	2.05	0.70
1:C:1507:GLN:O	1:C:1562:ARG:NH1	2.24	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:992:UNK:HG2	1:B:994:UNK:HG3	1.72	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: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:580:ARG:HD2	1:C:614:GLY:HA3	1.72	0.69
1:C:1035:VAL:HG12	1:C:1037:ASP:H	1.57	0.69
1:A:580:ARG:HD2	1:A:614:GLY:HA3	1.73	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: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:A:1046:LEU:HD13	1:A:1129:LEU:HD22	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:2445:UNK:HG2	1:C:2985:GLY:O	1.93	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: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:511:ARG:HD3	1:A:543:GLY:HA3	1.76	0.68
1:A:1177:ARG:HB2	1:A:1184:LEU:HD23	1.74	0.68
1:B:2112:UNK:C	1:B:2115:UNK:HG3	2.22	0.68
1:B:2113:UNK:O	1:B:2116:UNK:CG	2.37	0.68
1:C:2093:UNK:CG	1:C:2132:UNK:HB1	2.24	0.68
1:B:340:ILE:HD13	1:B:364:THR:HG21	1.75	0.68
1:B:1035:VAL:HG12	1:B:1037:ASP:H	1.57	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:340:ILE:HD13	1:A:364:THR:HG21	1.75	0.68
1:A:2112:UNK:C	1:A:2115:UNK:HG3	2.22	0.68
1:C:511:ARG:HD3	1:C:543:GLY:HA3	1.76	0.68
1:C:2113:UNK:C	1:C:2116:UNK:HG3	2.23	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:137:VAL:HG22	1:C:354:LEU:HD13	1.74	0.68
1:C:2215:THR:HB	1:C:2229:LYS:HB2	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:974:UNK:HG1	1:A:977:UNK:HB1	1.74	0.67
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: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:974:UNK:HG1	1:B:977:UNK:HB1	1.74	0.67
1:B:1163:ASP:HB3	1:B:1199:UNK:HG3	1.76	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:792:ALA:HA	1:B:799:PHE:HE2	1.60	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:HH11	1:B:3080:ARG:CG	2.07	0.67
1:C:340:ILE:HD13	1:C:364:THR:HG21	1.75	0.67
1:C:2093:UNK:HG3	1:C:2132:UNK:HB1	1.77	0.67
1:C:2103:UNK:CG	1:C:2104:UNK:N	2.58	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:269:GLU:HB3	1:B:282:VAL:HA	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2080:UNK:HB2	1:B:2082:UNK:HG3	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:269:GLU:HB3	1:A:282:VAL:HA	1.75	0.66
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:C:970:ILE:HG12	1:C:996:UNK:HG1	1.76	0.66
1:C:1008:UNK:HG3	1:C:1019:PHE:HB3	1.76	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: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: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: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:C:1163:ASP:HB3	1:C:1199:UNK:HG3	1.76	0.66
1:B:992:UNK:HG3	1:B:996:UNK:HG2	1.76	0.66
1:B:2097:UNK:C	1:B:2100:UNK:HG3	2.24	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:511:ARG:HB2	1:C:540:ASN:HB2	1.78	0.66
1:C:2080:UNK:O	1:C:2083:UNK:HG3	1.94	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:683:GLY:HA2	1:C:700:ASN:HB2	1.78	0.66
1:C:2126:UNK:O	1:C:2129:UNK:CG	2.43	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:931:UNK:CG	1:C:933:UNK:HG3	2.24	0.66
1:C:1132:LEU:HD11	1:C:1192:PHE:HB3	1.78	0.66
1:A:931:UNK:CG	1:A:933:UNK:HG3	2.25	0.66
1:B:2012:GLY:C	1:C:2591:ARG:HH12	1.99	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:A:2086:UNK:C	1:A:2089:UNK:HG3	2.25	0.66
1:B:666:VAL:HG21	1:B:904:VAL:HB	1.78	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:C:997:UNK:O	1:C:1009:UNK:N	2.29	0.66
1:A:997:UNK:O	1:A:1009:UNK:N	2.29	0.65
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:B:970:ILE:HG12	1:B:996:UNK:HG1	1.76	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:A:970:ILE:HG12	1:A:996:UNK:HG1	1.76	0.65
1:A:1488:VAL:HG12	1:A:1490:ARG:NH1	2.10	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:2012:GLY:C	1:B:2591:ARG:HH12	1.99	0.65
1:A:2123:UNK:C	1:A:2126:UNK:HG3	2.26	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:924:LEU:O	1:C:929:UNK:N	2.30	0.65
1:C:2876:LEU:HD11	1:C:2886:ILE:HD11	1.79	0.65
1:A:981:UNK:O	1:A:981:UNK:HG2	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:HG3	1:B:3080:ARG:NH1	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:666:VAL:HG21	1:C:904:VAL:HB	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:A:666:VAL:HG21	1:A:904:VAL:HB	1.78	0.65
1:A:1168:ARG:HB2	1:A:1197:UNK:HB2	1.77	0.65
1:B:500:GLN:O	1:B:504:LYS:N	2.24	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: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: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: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:408:VAL:HG13	1:A:943:UNK:HG1	1.80	0.64
1:A:1417:LEU:O	1:A:1423:THR:OG1	2.14	0.64
1:B:238:SER:HG	1:B:249:THR:HG1	1.42	0.64
1:B:981:UNK:HG2	1:B:981:UNK:O	1.95	0.64
1:A:924:LEU:O	1:A:929:UNK:N	2.30	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: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:42:GLU:HB3	1:B:349:ARG:HG3	1.79	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:HG2	1:B:2428:UNK:O	1.98	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: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: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: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:42:GLU:HB3	1:C:349:ARG:HG3	1.79	0.63
1:C:2080:UNK:HG2	1:C:2083:UNK: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:892:ILE:HG22	2:A:4000:FMN:HM82	1.80	0.63
1:A:2428:UNK:O	1:A:2428:UNK:HG2	1.98	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:B:2176:LEU:HG	1:B:2180:LYS:HE3	1.80	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:O	1:C:2428:UNK:HG2	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:HD3	1:B:2297:ARG:H	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: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: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: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:HG2	1:C:1212:UNK:O	1.99	0.63
1:C:2092:UNK:O	1:C:2092:UNK:HG2	1.99	0.63
1:A:980:UNK:C	1:A:981:UNK:HG3	2.29	0.63
1:A:1212:UNK:HG2	1:A:1212:UNK:O	1.99	0.63
1:A:2047:THR:OG1	1:A:2205:ASP:OD2	2.17	0.63
1:A:2117:UNK:O	1:A:2121:UNK:HG3	1.98	0.63
1:B:360:LEU:HD12	1:B:363:LEU:HD23	1.80	0.63
1:B:2117:UNK:O	1:B:2121:UNK:HG3	1.98	0.63
1:A:360:LEU:HD12	1:A:363:LEU:HD23	1.80	0.63
1:A:803:GLU:OE1	1:A:2431:UNK:HG3	1.98	0.63
1:A:2173:ASP:OD2	1:A:2799:LYS:NZ	2.32	0.63
1:A:2297:ARG:H	1:A:2297:ARG:HD3	1.64	0.63
1:B:750:LEU:HD12	1:B:827:LEU:HD11	1.81	0.63
1:B:803:GLU:OE1	1:B:2431:UNK:HG3	1.98	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:A:750:LEU:HD12	1:A:827:LEU:HD11	1.81	0.62
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:C:974:UNK:CG	1:C:977:UNK:HB1	2.29	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:A:664:LEU:HD13	1:A:701:ALA:HB1	1.81	0.62
1:B:34:LEU:O	1:B:38:LEU:N	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:980:UNK:C	1:B:981:UNK:HG3	2.29	0.62
1:B:1126:ILE:HG22	1:B:1196:UNK:HG1	1.81	0.62
1:B:2422:UNK:O	1:B:2422:UNK:HG2	1.98	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:664:LEU:HD13	1:B:701:ALA:HB1	1.81	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: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:585:HIS:CD2	1:C:586:SER:H	2.17	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:A:500:GLN:O	1:A:504:LYS:N	2.24	0.62
1:A:1376:VAL:HA	1:A:1470:LEU:HD13	1.81	0.62
1:C:992:UNK:CG	1:C:994:UNK:HG2	2.29	0.62
1:A:585:HIS:CD2	1:A:586:SER:H	2.17	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: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:415:VAL:HG22	1:B:937:UNK:HG1	1.81	0.62
1:B:792:ALA:O	1:B:2433:UNK:HG2	1.96	0.62
1:B:975:UNK:HG3	1:B:993:UNK:CB	2.29	0.62
1:B:1353:PRO:HG3	1:B:1702:GLU:OE2	2.00	0.62
1:B:1725:SER:HB3	1:C:260:LEU:HD13	1.82	0.62
1:B:2237:LEU:HB2	1:B:2287:LEU:HD11	1.82	0.62
1:C:1215:UNK:HG2	1:C:1216:UNK:N	2.14	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:980:UNK:C	1:C:981:UNK:HG3	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2096:UNK:HG2	1:C:2097:UNK:N	2.14	0.62
1:A:238:SER:OG	1:A:249:THR:OG1	2.16	0.62
1:A:1002:UNK:O	1:A:1002:UNK:HG2	1.99	0.62
1:B:992:UNK:HG3	1:B:996:UNK:HG3	1.66	0.62
1:B:2096:UNK:HG2	1:B:2097:UNK:N	2.14	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:203:ASP:O	1:C:205:PRO:HD3	2.00	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: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:2047:THR:OG1	1:C:2205:ASP:OD2	2.17	0.61
1:C:2092:UNK:HA	1:C:2189:PHE:HB2	1.81	0.61
1:C:2297:ARG:H	1:C:2297:ARG:HD3	1.64	0.61
1:C:2948:GLN:HG2	1:C:2951:ARG:HH21	1.64	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: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:B:409:LYS:HD2	1:B:933:UNK:HA	1.82	0.61
1:B:575:HIS:HD2	1:B:644:LEU:HD22	1.66	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:575:HIS:HD2	1:C:644:LEU:HD22	1.66	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:A:939:UNK:O	1:A:940:UNK:CG	2.47	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:B:2092:UNK:HG2	1:B:2092:UNK:O	1.99	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:C:2103:UNK:HG1	1:C:2919:GLY:O	2.00	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:892:ILE:HG22	2:C:4000:FMN:HM82	1.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2434:UNK:CG	1:C:2523:GLU:O	2.48	0.61
1:A:164:ALA:HA	1:A:178:LEU:HD13	1.82	0.61
1:B:34:LEU:H	1:B:393:VAL:HG21	1.65	0.61
1:B:106:ALA:HB1	1:B:112:PRO:HB2	1.82	0.61
1:B:929:UNK:O	1:B:930:UNK:CG	2.45	0.61
1:B:1622:PRO:HD3	1:B:1685:LEU:HD11	1.81	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: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:B:2469:LEU:HD11	1:B:2653:VAL:HB	1.82	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:C:1227:UNK:O	1:C:1227:UNK:HG2	2.00	0.61
1:A:929:UNK:O	1:A:930:UNK:CG	2.45	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: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: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: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:A:106:ALA:HB1	1:A:112:PRO:HB2	1.82	0.61
1:A:580:ARG:HG2	1:A:590:LEU:HD21	1.83	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:B:70:SER:HG	1:B:142:ARG:HH22	1.49	0.61
1:B:126:VAL:HG12	1:B:182:ALA:HB1	1.83	0.61
1:B:1007:UNK:HB2	1:B:1018:ARG:HE	1.66	0.61
1:B:1227:UNK:HG2	1:B:1227:UNK:O	2.00	0.61
1:B:1431:ALA:HB3	1:B:1459:THR:HG21	1.82	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:C:1353:PRO:HG3	1:C:1702:GLU:OE2	2.00	0.61
1:B:979:UNK:O	1:B:979:UNK:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:984:UNK:HG2	1:B:987:UNK:CG	2.31	0.61
1:B:2334:HIS:HD2	1:B:2391:LYS:HG3	1.66	0.61
1:B:2434:UNK:CG	1:B:2523:GLU:O	2.48	0.61
1:C:488:ASN:HA	1:C:521:VAL:HB	1.83	0.61
1:C:1007:UNK:HG2	1:C:1007:UNK:O	2.01	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:A:1007:UNK:O	1:A:1007:UNK:HG2	2.01	0.61
1:A:1227:UNK:O	1:A:1227:UNK:HG2	2.00	0.61
1:B:970:ILE:CG1	1:B:996:UNK:HG1	2.31	0.61
1:B:3058:ARG:HB2	1:B:3089:LEU:HB2	1.82	0.61
1:C:1315:ARG:HH21	1:C:1323:GLU:HG2	1.64	0.61
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:A:2765:GLY:HA2	1:A:2940:VAL:HG21	1.82	0.60
1:B:438:THR:HA	1:B:880:HIS:HE1	1.66	0.60
1:B:1095:LEU:HD12	1:B:1096:THR:H	1.64	0.60
1:C:984:UNK:CG	1:C:987:UNK:CG	2.79	0.60
1:C:2173:ASP:OD2	1:C:2799:LYS:NZ	2.32	0.60
1:A:257:ARG:HH12	1:C:1695:LEU:CD2	2.13	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:2647:VAL:HA	1:A:2650:TRP:HD1	1.66	0.60
1:B:488:ASN:HA	1:B:521:VAL:HB	1.83	0.60
1:B:1315:ARG:HH21	1:B:1323:GLU:HG2	1.64	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: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:A:203:ASP:O	1:A:205:PRO:HD3	2.01	0.60
1:A:1989:PHE:HD1	1:A:1992:LYS:HZ3	1.49	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:979:UNK:HG2	1:A:979:UNK:O	2.01	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
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:680:ALA:HA	1:B:685:ALA:HB2	1.83	0.60
1:B:1002:UNK:O	1:B:1002:UNK:HG2	2.00	0.60
1:B:2121:UNK:C	1:B:2124:UNK:HG3	2.31	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:929:UNK:O	1:C:930:UNK:CG	2.45	0.60
1:C:2212:TRP:HA	1:C:2229:LYS:HD3	1.83	0.60
1:C:2962:ASP:OD1	1:C:2962:ASP:N	2.34	0.60
1:A:488:ASN:HA	1:A:521:VAL:HB	1.83	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: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: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:B:2651:ASN:HD22	1:B:2718:VAL:HG12	1.67	0.60
1:C:976:UNK:HG2	1:C:976:UNK:O	2.01	0.60
1:C:2135:UNK:HG3	1:C:2136:ASP:H	1.64	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:580:ARG:HG2	1:B:590:LEU:HD21	1.83	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: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:2461:VAL:HG11	1:C:2751:VAL:HG22	1.84	0.60
1:C:2651:ASN:HD22	1:C:2718:VAL:HG12	1.67	0.60
1:A:126:VAL:HG12	1:A:182:ALA:HB1	1.83	0.60
1:A:1532:ILE:HA	1:A:1544:ILE:HG12	1.83	0.60
1:A:2081:UNK:O	1:A:2085:UNK:HG2	2.02	0.60
1:B:931:UNK:O	1:B:934:UNK:HG3	2.02	0.60
1:B:1537:LEU:HB2	1:B:1541:GLN:H	1.67	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: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: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:410:LEU:HB3	1:C:1025:VAL:HG21	1.84	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: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:680:ALA:HA	1:C:685:ALA:HB2	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:A:2431:UNK:O	1:A:2431:UNK:HG2	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:HG2	1:C:2431:UNK:O	2.01	0.59
1:C:2712:GLU:HA	1:C:2717:VAL:HG11	1.83	0.59
1:A:795:HIS:HB3	1:A:799:PHE:CZ	2.37	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:B:1002:UNK:C	1:B:1003:UNK:HG3	2.33	0.59
1:A:688:ARG:O	1:A:872:ARG:NE	2.34	0.59
1:A:2056:PHE:HZ	1:A:2180:LYS:HE2	1.67	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:931:UNK:O	1:C:934:UNK:HG3	2.02	0.59
1:C:2889:ILE:HG12	1:C:2922:LEU:HB3	1.84	0.59
1:B:2431:UNK:O	1:B:2431:UNK:HG2	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:2686:MET:HE1	1:A:2935:LYS:HG3	1.83	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:B:992:UNK:CG	1:B:994:UNK:HG2	2.30	0.59
1:B:1007:UNK:HG2	1:B:1007:UNK:O	2.01	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:934:UNK:C	1:B:937:UNK:HG3	2.32	0.59
1:B:2800:PHE:HE1	1:B:2812:LEU:HD22	1.67	0.59
1:C:1309:VAL:HG22	1:C:1331:ILE:HG12	1.84	0.59
1:B:462:GLN:HG3	1:B:468:PHE:HD1	1.68	0.58
1:B:2686:MET:HE1	1:B:2935:LYS:HG3	1.83	0.58
1:C:836:VAL:HG12	1:C:837:VAL:H	1.67	0.58
1:C:979:UNK:HG2	1:C:979:UNK:O	2.01	0.58
1:C:2124:UNK:O	1:C:2127:UNK:CG	2.51	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:438:THR:HA	1:C:880:HIS:HE1	1.66	0.58
1:C:943:UNK:C	1:C:944:UNK:HG3	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1012:UNK:C	1:C:1013:UNK:HG3	2.32	0.58
1:A:2429:UNK:O	1:A:2429:UNK:HG2	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: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:C:1001:UNK:C	1:C:1002:UNK:HG3	2.33	0.58
1:A:735:LYS:HD2	1:A:860:VAL:HG23	1.86	0.58
1:A:1008:UNK:O	1:A:1008:UNK:HG2	2.03	0.58
1:B:1253:ARG:HG3	1:B:1253:ARG:NH1	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:687:GLY:O	1:C:695:ILE:N	2.34	0.58
1:C:1989:PHE:HD1	1:C:1992:LYS:HZ3	1.51	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:A:2101:UNK:O	1:A:2105:UNK:HG3	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:970:ILE:CD1	1:C:996:UNK:HG1	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1656:LYS:HG2	1:C:1660:LEU:HG	1.85	0.58
1:A:2487:LEU:HD11	1:A:2495:LEU:HD12	1.86	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: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: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: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:B:1309:VAL:HG22	1:B:1331:ILE:HG12	1.84	0.58
1:A:462:GLN:HG3	1:A:468:PHE:HD1	1.68	0.57
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:B:1412:HIS:ND1	1:B:1415:GLY:O	2.26	0.57
1:C:441:ASP:OD2	1:C:443:LYS:HB3	2.04	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: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:A:1002:UNK:C	1:A:1003:UNK:HG3	2.33	0.57
1:A:1087:PHE:HB3	1:B:117:LYS:NZ	2.18	0.57
1:B:1009:UNK:O	1:B:1009:UNK:HG2	2.04	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:621:SER:OG	1:B:643:ILE:HD13	2.04	0.57
1:B:2101:UNK:O	1:B:2105:UNK:HG3	2.04	0.57
1:C:934:UNK:C	1:C:937:UNK:HG3	2.32	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: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
1:A:990:UNK:CG	1:A:998:UNK:HB2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1405:ALA:HB3	1:A:1408:VAL:HG23	1.86	0.57
1:B:1087:PHE:HB3	1:C:117:LYS:NZ	2.19	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:C:1017:ILE:HG23	1:C:1045:VAL:HG21	1.87	0.57
1:A:970:ILE:CD1	1:A:996:UNK:HG1	2.34	0.57
1:A:2124:UNK:O	1:A:2127:UNK:CG	2.51	0.57
1:B:129:VAL:HG13	1:B:356:PRO:HG2	1.85	0.57
1:B:924:LEU:HA	1:B:928:ALA:HB3	1.86	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: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: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:A:1009:UNK:O	1:A:1009:UNK:HG2	2.03	0.57
1:A:2709:ILE:O	1:A:2713:VAL:HG13	2.05	0.57
1:B:975:UNK:HG2	1:B:976:UNK:N	2.20	0.57
1:B:2429:UNK:HG2	1:B:2429:UNK:O	2.02	0.57
1:C:939:UNK:C	1:C:940:UNK:HG3	2.33	0.57
1:C:1008:UNK:CG	1:C:1019:PHE:HB3	2.33	0.57
1:C:1009:UNK:HG2	1:C:1009:UNK:O	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: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:784:GLU:OE2	1:C:787:LEU:HD12	2.03	0.57
1:C:2876:LEU:HB3	1:C:2881:VAL:HG12	1.86	0.57
1:A:980:UNK:O	1:A:981:UNK:CG	2.53	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:B:441:ASP:OD2	1:B:443:LYS:HB3	2.04	0.57
1:B:735:LYS:HD2	1:B:860:VAL:HG23	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:978:UNK:HB2	1:B:991:UNK:HG2	1.87	0.57
1:B:2084:UNK:O	1:B:2087:UNK:CG	2.52	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:C:1091:LEU:HD13	1:C:1281:ALA:HB3	1.86	0.57
1:B:127:PRO:HG3	1:B:183:GLN:HA	1.86	0.57
1:B:511:ARG:NH1	1:B:543:GLY:HA3	2.19	0.57
1:B:2100:UNK:CG	1:B:2101:UNK:N	2.68	0.57
1:C:462:GLN:HG3	1:C:468:PHE:HD1	1.68	0.57
1:B:868:ARG:HB3	1:B:872:ARG:HH11	1.70	0.57
1:B:2124:UNK:O	1:B:2127:UNK:CG	2.51	0.57
1:C:980:UNK:O	1:C:981:UNK:CG	2.53	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: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:735:LYS:HD2	1:C:860:VAL:HG23	1.85	0.56
1:C:793:ARG:HD3	1:C:2435:UNK:CG	2.27	0.56
1:A:37:ARG:O	1:A:41:GLY:N	2.38	0.56
1:A:745:THR:OG1	1:A:834:GLU:O	2.19	0.56
1:A:976:UNK:CG	1:A:993:UNK:HB1	2.29	0.56
1:A:2086:UNK:HA	1:A:2089:UNK:HG3	1.86	0.56
1:B:150:THR:O	1:B:152:PRO:HD3	2.03	0.56
1:B:476:GLU:HA	1:B:479:LEU:HB2	1.86	0.56
1:B:511:ARG:HD2	1:B:517:ILE:O	2.04	0.56
1:B:939:UNK:C	1:B:940:UNK:HG3	2.33	0.56
1:B:999:UNK:CG	1:B:1007:UNK:HG2	2.34	0.56
1:B:1001:UNK:O	1:B:1002:UNK:CG	2.53	0.56
1:B:1637:VAL:HG21	1:B:1671:TRP:CG	2.40	0.56
1:B:2481:MET:O	1:B:2959:ARG:NH2	2.39	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:C:177:GLU:HB3	1:C:317:LEU:HD13	1.87	0.56
1:C:1420:THR:OG1	1:C:1485:HIS:NE2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1537:LEU:HD11	1:C:1714:LEU:HB3	1.86	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:A:1017:ILE:HG23	1:A:1045:VAL:HG21	1.87	0.56
1:A:1253:ARG:HG3	1:A:1253:ARG:NH1	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:B:177:GLU:HB3	1:B:317:LEU:HD13	1.87	0.56
1:B:1091:LEU:HD13	1:B:1281:ALA:HB3	1.86	0.56
1:C:511:ARG:NH1	1:C:543:GLY:HA3	2.19	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: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:475:LEU:O	1:C:479:LEU:N	2.37	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:687:GLY:O	1:A:695:ILE:N	2.34	0.56
1:A:2102:UNK:C	1:A:2105:UNK:HG3	2.36	0.56
1:B:490:LEU:HD23	1:B:523:SER:HB2	1.87	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: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:990:UNK:O	1:B:990:UNK:HG2	2.05	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: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:O	1:C:990:UNK:HG2	2.05	0.56
1:C:1405:ALA:HB3	1:C:1408:VAL:HG23	1.86	0.56
1:A:934:UNK:C	1:A:937:UNK:HG3	2.32	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:B:2743:ALA:HB3	1:B:2939:ALA:HB3	1.88	0.55
1:A:2481:MET:O	1:A:2959:ARG:NH2	2.39	0.55
1:A:2743:ALA:HB3	1:A:2939:ALA:HB3	1.88	0.55
1:B:1405:ALA:HB3	1:B:1408:VAL:HG23	1.87	0.55
1:A:929:UNK:C	1:A:930:UNK:HG3	2.35	0.55
1:A:1618:LEU:HG	1:A:1619:VAL:HG23	1.88	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:B:2102:UNK:C	1:B:2105:UNK:HG3	2.36	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:551:PRO:HG3	1:B:560:VAL:HG21	1.89	0.55
1:B:1010:UNK:O	1:B:1017:ILE:N	2.29	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:931:UNK:HG2	1:A:933:UNK:CG	2.37	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: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:238:SER:OG	1:B:249:THR:OG1	2.15	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:2957:PRO:HD3	1:B:2980:PRO:HB3	1.88	0.55
1:C:737:TYR:HE1	1:C:862:VAL:HA	1.72	0.55
1:C:1690:GLU:O	1:C:1694:GLY:N	2.40	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:1724:TYR:OH	1:C:267:GLU:OE2	2.07	0.55
1:B:2418:GLY:O	1:B:2422:UNK:N	2.40	0.55
1:C:144:GLY:O	1:C:148:THR:N	2.34	0.55
1:C:994:UNK:CG	1:C:996:UNK:HG3	2.37	0.55
1:C:1001:UNK:O	1:C:1002:UNK:CG	2.53	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:763:SER:O	1:B:766:ASP:N	2.41	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:O	1:B:2442:UNK:HG2	2.07	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:A:2303:ASP:OD1	1:A:2303:ASP:N	2.39	0.54
1:A:2810:GLY:HA2	1:A:2896:THR:HA	1.89	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:931:UNK:HG2	1:C:934:UNK:N	2.21	0.54
1:C:2704:ALA:O	1:C:2705:LYS:HD3	2.07	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: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:C:2743:ALA:HB3	1:C:2939:ALA:HB3	1.88	0.54
1:A:668:THR:OG1	1:A:698:ILE:HD11	2.08	0.54
1:A:3018:LEU:O	1:A:3022:GLU:HB2	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: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: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:B:37:ARG:O	1:B:41:GLY:N	2.39	0.54
1:B:2768:ASP:OD2	1:B:2936:GLY:N	2.41	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:978:UNK:HB2	1:A:991:UNK:CG	2.37	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: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:33:ALA:O	1:C:37:ARG:N	2.35	0.54
1:C:3018:LEU:O	1:C:3022:GLU:HB2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:2012:GLY:C	1:B:2591:ARG:NH1	2.61	0.54
1:B:624:TYR:HA	1:B:629:TRP:CD1	2.43	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:C:624:TYR:HA	1:C:629:TRP:CD1	2.43	0.54
1:C:2087:UNK:CA	1:C:2090:UNK:HG3	2.37	0.54
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:A:2100:UNK:CG	1:A:2101:UNK:N	2.68	0.53
1:A:2442:UNK:O	1:A:2442:UNK:HG2	2.07	0.53
1:B:456:GLU:HG2	1:B:486:GLN:HE21	1.73	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: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:624:TYR:HA	1:A:629:TRP:CD1	2.43	0.53
1:A:1089:ALA:O	1:A:1091:LEU:N	2.42	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: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: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:A:580:ARG:HH11	1:A:614:GLY:HA3	1.72	0.53
1:A:1163:ASP:CB	1:A:1199:UNK:HG3	2.38	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:B:2088:UNK:HG2	1:B:2188:ARG:HH12	1.73	0.53
1:C:2768:ASP:OD2	1:C:2936:GLY:N	2.41	0.53
1:A:526:ILE:HD12	1:A:549:PHE:HB3	1.90	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2425:UNK:HG2	1:A:2425:UNK:O	2.09	0.53
1:A:2768:ASP:OD2	1:A:2936:GLY:N	2.41	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:C:2122:UNK:CA	1:C:2125:UNK:HG3	2.38	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: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: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: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: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: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:A:2081:UNK:C	1:A:2084:UNK:HG3	2.39	0.53
1:A:2591:ARG:NH1	1:C:2012:GLY:C	2.61	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: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:C:745:THR:HG23	1:C:834:GLU:HA	1.90	0.53
1:C:1425:VAL:HG13	1:C:1474:LEU:HD13	1.91	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: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:A:1087:PHE:HB3	1:B:117:LYS:HZ1	1.74	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:588:GLU:HB3	1:A:593:LEU:HD11	1.91	0.53
1:A:961:ARG:NH2	1:A:1196:UNK:O	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1420:THR:OG1	1:A:1485:HIS:NE2	2.38	0.53
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: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: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:2012:GLY:C	1:C:2591:ARG:NH1	2.61	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: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: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:970:ILE:HD13	1:B:996:UNK:HG1	1.91	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:C:2246:ALA:C	1:C:2255:ARG:HH12	2.11	0.53
1:C:2425:UNK:O	1:C:2425:UNK:HG2	2.09	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:A:2860:ALA:HB1	1:A:3005:LEU:HD13	1.90	0.53
1:B:33:ALA:O	1:B:37:ARG:N	2.35	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: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:368:ILE:HG21	1:C:373:ILE:HG13	1.90	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: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:411:PRO:HD2	1:C:1025:VAL:HG11	1.91	0.52
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:A:1174:VAL:HB	1:A:1188:LEU:HB3	1.91	0.52
1:B:716:ALA:HA	1:B:719:VAL:HG23	1.90	0.52
1:B:1001:UNK:HG1	1:B:1018:ARG:HH22	1.74	0.52
1:C:71:GLU:HG2	1:C:142:ARG:NH2	2.24	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: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:B:71:GLU:HG2	1:B:142:ARG:NH2	2.24	0.52
1:B:2094:UNK:HG2	1:B:2096:UNK:CG	2.23	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:368:ILE:HG21	1:B:373:ILE:HG13	1.90	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: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: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: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:C:526:ILE:HD12	1:C:549:PHE:HB3	1.90	0.52
1:C:2081:UNK:C	1:C:2084:UNK:HG3	2.39	0.52
1:A:273:ARG:HD2	1:A:282:VAL:HG12	1.90	0.52
1:A:1093:PRO:HB3	1:A:1277:HIS:HE1	1.75	0.52
1:A:1164:THR:HA	1:A:1204:UNK:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2094:UNK:H	1:A:2097:UNK:HG3	1.75	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:208:VAL:HB	1:C:255:LEU:HD13	1.92	0.52
1:C:961:ARG:NH2	1:C:1196:UNK:O	2.42	0.52
1:C:1110:VAL:HG13	1:C:1172:VAL:HG11	1.92	0.52
1:C:1287:VAL:O	1:C:1291:LYS:HG3	2.10	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:577:GLU:OE2	2:A: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: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: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: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: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:144:GLY:O	1:B:148:THR:N	2.34	0.52
1:B:588:GLU:HB3	1:B:593:LEU:HD11	1.91	0.52
1:B:1174:VAL:HB	1:B:1188:LEU:HB3	1.91	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:C:106:ALA:O	1:C:112:PRO:HD2	2.10	0.52
1:C:1119:THR:O	1:C:1123:PHE:HB2	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:336:TRP:CE2	1:A:360:LEU:HD11	2.45	0.51
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:B:176:VAL:O	1:B:180:ALA:N	2.36	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:B:1530:LEU:HD21	1:B:1554:LEU:HD22	1.91	0.51
1:B:2088:UNK:C	1:B:2188:ARG:NH1	2.72	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:588:GLU:HB3	1:C:593:LEU:HD11	1.91	0.51
1:C:2790:MET:HG2	1:C:2809:LEU:HD11	1.93	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: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: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:C:508:GLN:HA	1:C:540:ASN:HB3	1.92	0.51
1:A:206:PRO:HG2	1:A:294:VAL:HA	1.92	0.51
1:A:1622:PRO:HD3	1:A:1685:LEU:HD21	1.92	0.51
1:B:745:THR:OG1	1:B:834:GLU:O	2.19	0.51
1:B:1634:ARG:HD2	1:B:1638:PRO:HA	1.91	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:984:UNK:HG2	1:B:987:UNK:HG2	1.93	0.51
1:B:2690:THR:O	1:B:2693:GLN:HG2	2.11	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:A:2790:MET:HG2	1:A:2809:LEU:HD11	1.93	0.51
1:B:206:PRO:HG2	1:B:294:VAL:HA	1.92	0.51
1:C:746:TYR:HA	1:C:749:TRP:HD1	1.76	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:A:2434:UNK:HG2	1:A:2434:UNK:O	2.11	0.51
1:B:208:VAL:HB	1:B:255:LEU:HD13	1.92	0.51
1:B:1164:THR:HA	1:B:1204:UNK:O	2.10	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:792:ALA:HA	1:C:799:PHE:CE2	2.43	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: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: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:B:1119:THR:O	1:B:1123:PHE:HB2	2.10	0.51
1:C:2754:ILE:HA	1:C:2759:ALA:O	2.11	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: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:A:42:GLU:H	1:A:42:GLU:CD	2.14	0.50
1:A:272:GLU:HB3	1:A:280:GLY:O	2.11	0.50
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:B:42:GLU:CD	1:B:42:GLU:H	2.14	0.50
1:B:1317:GLY:H	1:B:1324:VAL:HG12	1.76	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:42:GLU:H	1:C:42:GLU:CD	2.14	0.50
1:C:336:TRP:CE2	1:C:360:LEU:HD11	2.45	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:O	1:C:2434:UNK:HG2	2.11	0.50
1:A:780:ARG:HD2	1:A:816:LEU:HB3	1.93	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2662:SER:HB2	1:A:2833:LEU:HD22	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:1093:PRO:HB3	1:C:1277:HIS:HE1	1.75	0.50
1:C:1212:UNK:HG1	1:C:1342:ARG:HE	1.76	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:257:ARG:NH1	1:C:1695:LEU:HD23	2.23	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: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:C:1590:VAL:HG11	1:C:1671:TRP:CD2	2.47	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: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:A:2754:ILE:HA	1:A:2759:ALA:O	2.11	0.50
1:B:133:GLN:HG2	1:B:355:GLY:HA2	1.94	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:936:UNK:O	1:B:941:UNK:N	2.44	0.50
1:B:1711:VAL:HA	1:B:1714:LEU:HG	1.93	0.50
1:C:405:PRO:HG3	1:C:625:LEU:HG	1.93	0.50
1:C:1207:UNK:O	1:C:1207:UNK:HG2	2.12	0.50
1:C:2552:ASP:OD1	1:C:2552:ASP:N	2.43	0.50
1:A:405:PRO:HG3	1:A:625:LEU:HG	1.93	0.50
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:A:1212:UNK:O	1:A:1342:ARG:NH2	2.45	0.50
1:A:1212:UNK:HG1	1:A:1342:ARG:HE	1.75	0.50
1:A:1986:LEU:HA	1:A:1989:PHE:HD2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:206:PRO:HG2	1:C:294:VAL:HA	1.92	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: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: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:990:UNK:HG3	1:A:998:UNK:HB2	1.94	0.49
1:A:2334:HIS:HB3	1:A:2391:LYS:HA	1.94	0.49
1:B:990:UNK:HG3	1:B: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: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:984:UNK:HG2	1:A:987:UNK:HG2	1.93	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:B:1986:LEU:HA	1:B:1989:PHE:HD2	1.76	0.49
1:B:2056:PHE:CZ	1:B:2180:LYS:HE2	2.47	0.49
1:B:2140:VAL:HG22	1:B:2165:ILE:HD12	1.93	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:508:GLN:HA	1:A:540:ASN:HB3	1.92	0.49
1:A:647:THR:OG1	2:A:4000:FMN:O3P	2.27	0.49
1:A:981:UNK:CG	1:A:987:UNK:O	2.60	0.49
1:A:1207:UNK:O	1:A:1207:UNK:HG2	2.12	0.49
1:A:2056:PHE:CZ	1:A:2180:LYS:HE2	2.47	0.49
1:A:2140:VAL:HG22	1:A:2165:ILE:HD12	1.93	0.49
1:B:1212:UNK:O	1:B:1342:ARG:NH2	2.45	0.49
1:B:1212:UNK:HG1	1:B:1342:ARG:HE	1.75	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:577:GLU:OE2	2:B:4000:FMN:O3'	2.28	0.49
1:B:1119:THR:HA	1:B:1123:PHE:CD1	2.47	0.49
1:C:776:ASP:O	1:C:779:TRP:N	2.31	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: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:CG	1:A:3080:ARG:NH1	2.72	0.49
1:B:981:UNK:HG1	1:B:987:UNK:O	2.12	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:C:184:LEU:HB3	1:C:311:TRP:HE3	1.78	0.49
1:C:1380:ALA:HB1	1:C:1474:LEU:HD12	1.94	0.49
1:A:981:UNK:HG1	1:A:987:UNK:O	2.12	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: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:C:207:MET:HA	1:C:249:THR:HG22	1.94	0.49
1:A:184:LEU:HB3	1:A:311:TRP:HE3	1.78	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:B:932:UNK:HA	1:B:935:UNK:HG3	1.94	0.49
1:B:2790:MET:HG2	1:B:2809:LEU:HD11	1.93	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:HG3	1:C:3080:ARG:NH1	2.09	0.49
1:A:117:LYS:HZ1	1:C:1087:PHE:HB3	1.78	0.49
1:A:207:MET:HA	1:A:249:THR:HG22	1.94	0.49
1:A:1010:UNK:CG	1:A:1017:ILE:HB	2.42	0.49
1:A:2829:LEU:HD21	1:A:3014:PHE:HE2	1.77	0.49
1:B:981:UNK:CG	1:B:987:UNK:O	2.60	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:305:ILE:HD13	1:C:327:GLU:HG2	1.95	0.49
1:C:1362:MET:HG3	1:C:1430:VAL:HG21	1.95	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: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:OD1	1:A:2962:ASP:N	2.34	0.49
1:B:184:LEU:HB3	1:B:311:TRP:HE3	1.78	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:B:1380:ALA:HB1	1:B:1474:LEU:HD12	1.93	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: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:C:2094:UNK:O	1:C:2098:UNK:HG3	2.13	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:997:UNK:HB1	1:C:1009:UNK:HG2	1.95	0.49
1:C:2334:HIS:HB3	1:C:2391:LYS:HA	1.94	0.49
1:A:868:ARG:HB3	1:A:872:ARG:NH1	2.28	0.48
1:A:1012:UNK:O	1:A:1012:UNK:HG2	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: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: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: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:2667:THR:HG21	1:C:3058:ARG:HH11	1.76	0.48
1:C:2829:LEU:HD21	1:C:3014:PHE:HE2	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:932:UNK:HA	1:A:935:UNK:HG3	1.94	0.48
1:A:2086:UNK:CA	1:A:2089:UNK:HG3	2.43	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: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: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:HG2	1:C:996:UNK:O	2.13	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:A:1435:VAL:HG22	1:A:1703:ILE:HD12	1.95	0.48
1:A:2103:UNK:CG	1:A:2919:GLY:O	2.62	0.48
1:A:2167:THR:HB	1:A:2198:ALA:HB3	1.96	0.48
1:B:2623:ALA:HB2	1:B:2812:LEU:HD21	1.94	0.48
1:C:2667:THR:HB	1:C:3081:LEU:HD11	1.95	0.48
1:C:2848:GLY:H	1:C:3001:HIS:CD2	2.31	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:2060:TRP:HZ2	1:A:2966:ASP:HA	1.79	0.48
1:A:2170:ARG:HB2	1:A:2175:ARG:HG3	1.95	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: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: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:A:184:LEU:HD13	1:A:311:TRP:HB3	1.96	0.48
1:A:2848:GLY:H	1:A:3001:HIS:CD2	2.31	0.48
1:B:982:UNK:CG	1:B:983:UNK:N	2.76	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:2060:TRP:HZ2	1:B:2966:ASP:HA	1.79	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:444:ILE:HD12	1:C:655:ALA:HA	1.95	0.48
1:C:1012:UNK:O	1:C:1012:UNK:HG2	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: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: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: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: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:144:GLY:O	1:A:148:THR:N	2.34	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:A:1103:VAL:HG21	1:A:1269:MET:SD	2.54	0.48
1:A:1163:ASP:CG	1:A:1199:UNK:HG3	2.34	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:2088:UNK:O	1:A:2188:ARG:NH1	2.47	0.48
1:A:2180:LYS:NZ	1:A:2962:ASP:HB3	2.29	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:B:305:ILE:HD13	1:B:327:GLU:HG2	1.95	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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:B:171:LYS:HE3	1:B:173:ALA:HB3	1.96	0.48
1:B:647:THR:HG22	1:B:901:ILE:HD11	1.96	0.48
1:B:2088:UNK:O	1:B:2188:ARG:NH1	2.47	0.48
1:C:997:UNK:N	1:C:1009:UNK:O	2.47	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: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: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: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:C:171:LYS:HE3	1:C:173:ALA:HB3	1.96	0.48
1:C:301:LEU:HD13	1:C:330:LEU:HD22	1.96	0.48
1:C:575:HIS:CD2	1:C:644:LEU:HD22	2.48	0.48
1:C:641:ASP:N	1:C:641:ASP:OD1	2.47	0.48
1:C:1651:THR:HB	1:C:1656:LYS:HD2	1.95	0.48
1:C:2448:UNK:O	1:C:2448:UNK:HG2	2.13	0.48
1:A:176:VAL:O	1:A:180:ALA:N	2.36	0.47
1:A:996:UNK:HG2	1:A:996:UNK:O	2.13	0.47
1:A:2736:PRO:HG2	1:A:2746:SER:HA	1.96	0.47
1:B:670:GLY:HA3	1:B:899:ALA:HB2	1.96	0.47
1:B:674:TRP:CD1	1:B:895:THR:HG21	2.49	0.47
1:B:2180:LYS:NZ	1:B:2962:ASP:HB3	2.29	0.47
1:B:2448:UNK:HG2	1:B:2448:UNK:O	2.13	0.47
1:B:2666:PRO:CB	1:B:2727:VAL:HA	2.44	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:O	1:B:1012:UNK:HG2	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:184:LEU:HD13	1:C:311:TRP:HB3	1.96	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:C:1010:UNK:HG2	1:C:1017:ILE:HB	1.96	0.47
1:C:2180:LYS:NZ	1:C:2962:ASP:HB3	2.29	0.47
1:C:2554:ALA:HB1	1:C:2614:LYS:HD2	1.95	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:365:ALA:O	1:B:369:ARG:N	2.42	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: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: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: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:2093:UNK:HG1	1:B:2132:UNK:HB1	1.95	0.47
1:B:2123:UNK:HA	1:B:2126:UNK:HG3	1.97	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:365:ALA:HB3	1:C:366:PRO:HD3	1.96	0.47
1:C:674:TRP:CD1	1:C:895:THR:HG21	2.49	0.47
1:C:808:ALA:HB3	1:C:811:ASP:HB2	1.96	0.47
1:C:985:UNK:HG2	1:C:986:UNK:N	2.29	0.47
1:C:2170:ARG:HB2	1:C:2175:ARG:HG3	1.95	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:832:ASP:O	1:B:836:VAL:HG23	2.14	0.47
1:B:985:UNK:HG2	1:B:986:UNK:N	2.29	0.47
1:B:997:UNK:HB1	1:B:1009:UNK:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2170:ARG:HB2	1:B:2175:ARG:HG3	1.96	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:606:ASN:H	1:A:606:ASN:HD22	1.63	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: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: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: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: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:A:713:ALA:O	1:A:868:ARG:NH2	2.48	0.47
1:A:782:ARG:HD3	1:A:853:LEU:HD22	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: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:2101:UNK:HG2	1:A:2102:UNK:N	2.29	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: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: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:1672:GLN:HE21	1:B:1672:GLN:HB3	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:210:VAL:HG22	1:C:287:PHE:CD1	2.50	0.47
1:C:670:GLY:HA3	1:C:899:ALA:HB2	1.96	0.47
1:C:832:ASP:O	1:C:836:VAL:HG23	2.14	0.47
1:C:941:UNK:HG3	1:C:942:UNK:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1625:LEU:HD11	1:C:1660:LEU:HB3	1.96	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: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: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: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: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: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: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:A:198:ILE:HG12	1:C:1087:PHE:CE1	2.50	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:A:2785:ALA:HB1	1:A:2809:LEU:HG	1.97	0.47
1:B:210:VAL:HG22	1:B:287:PHE:CD1	2.50	0.47
1:B:585:HIS:HD2	1:B:586:SER:H	1.62	0.47
1:B:713:ALA:O	1:B:868:ARG:NH2	2.48	0.47
1:B:782:ARG:HD3	1:B:853:LEU:HD22	1.97	0.47
1:B:941:UNK:HG3	1:B:942:UNK:N	2.30	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:2554:ALA:HB1	1:B:2614:LYS:HD2	1.96	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:836:VAL:HG12	1:C:837:VAL:N	2.29	0.47
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:O	1:C:2427:UNK:HG2	2.15	0.47
1:C:3080:ARG:CG	1:C:3080:ARG:NH1	2.72	0.47
1:A:836:VAL:HG12	1:A:837:VAL:N	2.29	0.46
1:A:1237:ARG:CZ	1:B:95:PRO:HB2	2.46	0.46
1:A:2058:ASP:OD1	1:A:2058:ASP:N	2.46	0.46
1:B:94:ARG:HG3	1:B:95:PRO:HD3	1.98	0.46
1:B:836:VAL:HG12	1:B:837:VAL:N	2.29	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:B:1467:VAL:HA	1:B:1605:LYS:HD2	1.96	0.46
1:C:222:LEU:HD21	1:C:236:VAL:HA	1.97	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:A:670:GLY:HA3	1:A:899:ALA:HB2	1.96	0.46
1:A:778:THR:HG21	1:A:854:GLY:HA3	1.97	0.46
1:A:941:UNK:HG3	1:A:942:UNK:N	2.30	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:B:518:ASP:HA	1:B:543:GLY:O	2.15	0.46
1:B:2961:LEU:HD22	1:B:2976:TRP:CD1	2.51	0.46
1:C:84:GLU:HB2	1:C:85:PRO:HD3	1.97	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: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: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:A:171:LYS:HE3	1:A:173:ALA:HB3	1.96	0.46
1:A:210:VAL:HG22	1:A:287:PHE:CD1	2.50	0.46
1:A:361:THR:HG21	1:A:377:PRO:HG3	1.95	0.46
1:A:365:ALA:O	1:A:369:ARG:N	2.42	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2978:ARG:NH1	1:A:2979:GLU:OE2	2.49	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: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:C:982:UNK:CG	1:C:983:UNK:N	2.76	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:A:84:GLU:HB2	1:A:85:PRO:HD3	1.98	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: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: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:518:ASP:HA	1:C:543:GLY:O	2.15	0.46
1:C:2348:GLN:O	1:C:2416:MET:HG3	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:768:LYS:HA	1:B:775:LEU:HD11	1.97	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:2543:PHE:HA	1:B:2624:GLN:HE22	1.81	0.46
1:B:2554:ALA:HB1	1:B:2614:LYS:HZ2	1.78	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:C:2252:VAL:HG22	1:C:2255:ARG:NH2	2.30	0.46
1:B:2104:UNK:HA	1:B:2107:UNK:CG	2.46	0.46
1:C:141:ALA:O	1:C:145:MET:HB2	2.15	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:C:1325:LEU:HD11	1:C:1343:LEU:HD22	1.98	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:A:575:HIS:CD2	1:A:644:LEU:HD22	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1072:TRP:CD1	1:A:1097:VAL:HG22	2.51	0.46
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:B:84:GLU:HB2	1:B:85:PRO:HD3	1.97	0.46
1:B:141:ALA:O	1:B:145:MET:HB2	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:HD22	1:B:606:ASN:H	1.62	0.46
1:B:1072:TRP:CD1	1:B:1097:VAL:HG22	2.51	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: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:167:ALA:HB3	1:A:178:LEU:HD21	1.98	0.46
1:A:277:LEU:HD22	1:A:676:GLY:O	2.16	0.46
1:A:501:VAL:HA	1:A:504:LYS:HE2	1.96	0.46
1:A:1205:UNK:HG2	1:A:1206:UNK:N	2.30	0.46
1:A:1212:UNK:CG	1:A:1342:ARG:HH21	2.17	0.46
1:A:1276:GLN:HE21	1:A:1292:LEU:HD13	1.79	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: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:94:ARG:HG3	1:C:95:PRO:HD3	1.98	0.46
1:C:996:UNK:HA	1:C:1010:UNK:HA	1.97	0.46
1:A:95:PRO:HB2	1:C:1237:ARG:CZ	2.45	0.46
1:A:647:THR:HG22	1:A:901:ILE:HD11	1.96	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:B:111:GLU:HB2	1:B:112:PRO:HD3	1.98	0.46
1:B:984:UNK:HG1	1:B:987:UNK:CG	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:B:2619:ARG:NH1	1:B:2779:GLY:HA2	2.31	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: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: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:A:1087:PHE:CE1	1:B:198:ILE:HG12	2.51	0.46
1:A:2123:UNK:HA	1:A:2126:UNK:HG3	1.97	0.46
1:A:2125:UNK:HA	1:A:2128:UNK:CG	2.45	0.46
1:A:2879:LEU:HD13	1:A:3009:VAL:HG11	1.98	0.46
1:B:1087:PHE:CE1	1:C:198:ILE:HG12	2.51	0.46
1:B:2770:LEU:HB3	1:B:2815:GLN:HB3	1.97	0.46
1:C:408:VAL:CG1	1:C:943:UNK:HG1	2.46	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: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: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:793:ARG:HA	1:B:2435:UNK:HG1	1.97	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:2672:TRP:CD1	1:B:2831:MET:HG2	2.52	0.45
1:B:2773:GLU:HA	1:B:2776:ILE:HG22	1.97	0.45
1:B:2889:ILE:HD11	1:B:2922:LEU:HD22	1.98	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: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: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:47:ALA:O	1:C:353:ASP:HA	2.17	0.45
1:C:277:LEU:HD22	1:C:676:GLY:O	2.16	0.45
1:C:540:ASN:ND2	1:C:544:ILE:HG13	2.30	0.45
1:C:683:GLY:CA	1:C:700:ASN:HB2	2.44	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:A:94:ARG:HG3	1:A:95:PRO:HD3	1.98	0.45
1:A:944:UNK:O	1:A:944:UNK:CG	2.59	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:B:351:ILE:HB	1:B:375:ILE:HG12	1.99	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: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: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:A:222:LEU:HD21	1:A:236:VAL:HA	1.97	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: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:B:47:ALA:O	1:B:353:ASP:HA	2.17	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:222:LEU:HD13	1:A:248:ILE:HD12	1.99	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:A:2427:UNK:O	1:A:2427:UNK:HG2	2.15	0.45
1:A:2770:LEU:HB3	1:A:2815:GLN:HB3	1.97	0.45
1:B:207:MET:HG3	1:B:292:VAL:HB	1.98	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:B:2246:ALA:N	1:B:2255:ARG:NH1	2.64	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:C:2785:ALA:HB1	1:C:2809:LEU:HG	1.97	0.45
1:C:2790:MET:SD	1:C:2800:PHE:HB2	2.56	0.45
1:A:408:VAL:CG1	1:A:943:UNK:HG1	2.46	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: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: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:B:1450:ALA:N	1:B:1613:ARG:O	2.48	0.45
1:B:1519:VAL:HG13	1:B:1530:LEU:HD23	1.98	0.45
1:C:167:ALA:HB3	1:C:178:LEU:HD21	1.98	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:2630:ASP:HB3	1:C:2633:VAL:HG23	1.97	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: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:B:534:ASP:O	1:B:538:GLU:HG3	2.16	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2212:TRP:HA	1:B:2229:LYS:HB3	1.98	0.45
1:B:2452:UNK:CG	1:B:2453:UNK:N	2.73	0.45
1:B:2452:UNK:HA	1:B:3017:ALA:HA	1.99	0.45
1:B:2790:MET:SD	1:B:2800:PHE:HB2	2.56	0.45
1:B:3080:ARG:CG	1:B:3080:ARG:NH1	2.72	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:C:1684:ASP:HA	1:C:1687:PHE:HD2	1.82	0.45
1:A:195:ARG:NH1	1:A:198:ILE:HD12	2.31	0.45
1:B:763:SER:HB3	1:B:766:ASP:HB2	1.99	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:C:195:ARG:NH1	1:C:198:ILE:HD12	2.31	0.45
1:C:222:LEU:HD13	1:C:248:ILE:HD12	1.99	0.45
1:C:784:GLU:OE2	1:C:816:LEU:HD21	2.16	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: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:A:351:ILE:HB	1:A:375:ILE:HG12	1.99	0.45
1:A:1605:LYS:H	1:A:1658:LYS:HE2	1.82	0.45
1:A:2591:ARG:HH12	1:C:2014:SER:H	1.65	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: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: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:2610:ARG:NH1	1:B:2700:LEU:HD21	2.31	0.45
1:C:544:ILE:O	1:C:546:HIS:N	2.40	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: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:A:746:TYR:HB2	1:A:833:ALA:HB1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:799:PHE:CZ	1:A:2433:UNK:CG	2.99	0.45
1:A:997:UNK:O	1:A:1009:UNK:HG3	2.17	0.45
1:A:1488:VAL:HB	1:A:1579:VAL:HG22	1.99	0.45
1:A:2014:SER:H	1:B:2591:ARG:HH12	1.65	0.45
1:A:2946:LEU:HD22	1:A:2994:VAL:HG23	1.98	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:B:2619:ARG:HH12	1:B:2779:GLY:HA2	1.81	0.45
1:C:868:ARG:HD3	1:C:872:ARG:HH12	1.81	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:HH12	2.15	0.45
1:C:2246:ALA:N	1:C:2255:ARG:NH1	2.64	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: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: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: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: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: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: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:A:207:MET:HG3	1:A:292:VAL:HB	1.98	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:B:210:VAL:HG22	1:B:287:PHE:HD1	1.82	0.44
1:B:277:LEU:HD22	1:B:676:GLY:O	2.16	0.44
1:B:550:LYS:HD3	1:B:577:GLU:OE2	2.17	0.44
1:B:999:UNK:HG2	1:B:1007:UNK:HG1	1.96	0.44
1:B:1612:GLY:N	1:B:1623:PHE:O	2.48	0.44
1:B:2299:MET:H	1:B:2299:MET:HG2	1.68	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:671:THR:HB	1:C:682:ASN:CG	2.38	0.44
1:C:2300:PHE:CZ	1:C:2398:LEU:HB3	2.52	0.44
1:C:2452:UNK:HA	1:C:3017:ALA:HA	1.98	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: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: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:B:684:MET:HG3	1:B:895:THR:HA	1.98	0.44
1:B:747:LEU:HD22	1:B:751:ARG:CZ	2.47	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:C:336:TRP:CH2	1:C:360:LEU:HD21	2.52	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:A:583:GLY:HA2	1:A:892:ILE:HD13	2.00	0.44
1:A:1519:VAL:HG13	1:A:1530:LEU:HD23	1.99	0.44
1:B:44:TYR:O	1:B:153:VAL:N	2.44	0.44
1:B:222:LEU:HD13	1:B:248:ILE:HD12	1.99	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:C:583:GLY:HA2	1:C:892:ILE:HD13	2.00	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: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: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:2014:SER:N	1:B:2591:ARG:NH1	2.66	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: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:B:515:ALA:HA	1:B:516:PRO:HD3	1.84	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:C:970:ILE:HG23	1:C:992:UNK:HG1	2.00	0.44
1:C:1093:PRO:HB3	1:C:1277:HIS:CE1	2.52	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:793:ARG:HA	1:C:2435:UNK:HG1	1.97	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:A:88:SER:HB3	1:A:314:THR:OG1	2.18	0.44
1:A:412:ASP:H	1:A:1025:VAL:CG2	2.31	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: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: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:O	1:B:944:UNK:CG	2.59	0.44
1:B:1537:LEU:HD13	1:B:1541:GLN:HB2	2.00	0.44
1:B:2014:SER:H	1:C:2591:ARG:HH12	1.65	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:C:745:THR:OG1	1:C:834:GLU:O	2.19	0.44
1:C:782:ARG:NH1	1:C:857:VAL:HG22	2.33	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1582:HIS:HA	1:C:1674:ALA:O	2.18	0.44
1:A:163:LEU:HD13	1:A:181:LEU:HD23	2.00	0.44
1:A:763:SER:HB3	1:A:766:ASP:HB2	1.99	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:2013:LEU:HD23	1:A:2013:LEU:HA	1.87	0.44
1:A:2252:VAL:HG22	1:A:2255:ARG:HH21	1.82	0.44
1:B:408:VAL:CG1	1:B:943:UNK:HG1	2.46	0.44
1:B:2845:PHE:CD2	1:B:2860:ALA:HA	2.52	0.44
1:C:393:VAL:HG12	1:C:394:PRO:N	2.32	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: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: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: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:2462:VAL:HG13	1:B:2835:VAL:HG13	2.00	0.44
1:B:2753:LYS:HA	1:B:2753:LYS:HD3	1.83	0.44
1:B:2958:ASN:HD22	1:B:2976:TRP:HE1	1.65	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: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: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: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:HD12	1:A:2989:LEU:HA	1.77	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:931:UNK:HG3	1:C:934:UNK:HG3	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: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:A:3044:ALA:HB1	1:A:3050:PRO:HB3	2.00	0.43
1:B:340:ILE:HD11	1:B:351:ILE:HD13	2.01	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: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: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:A:393:VAL:HG12	1:A:394:PRO:N	2.32	0.43
1:A:641:ASP:OD1	1:A:641:ASP:N	2.48	0.43
1:A:2114:UNK:HA	1:A:2117:UNK:HG3	1.99	0.43
1:B:970:ILE:HG23	1:B:992:UNK:HG1	2.00	0.43
1:B:1705:VAL:O	1:B:1735:GLU:HB2	2.18	0.43
1:C:981:UNK:HG2	1:C:988:UNK:HA	2.01	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:2180:LYS:HZ1	1:C:2962:ASP:HB3	1.82	0.43
1:C:2462:VAL:HG13	1:C:2835:VAL:HG13	2.00	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: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: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:B:2541:ARG:O	1:B:2621:VAL:HG13	2.18	0.43
1:B:2580:PHE:HE1	1:B:2603:ARG:HH21	1.66	0.43
1:B:2710:LEU:O	1:B:2713:VAL:HG22	2.18	0.43
1:C:657:THR:HB	1:C:662:LYS:HE3	2.00	0.43
1:C:2115:UNK:HA	1:C:2118:UNK:CG	2.49	0.43
1:A:344:HIS:CD2	1:A:373:ILE:HG13	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1163:ASP:HA	1:A:1168:ARG:HA	2.01	0.43
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:B:516:PRO:HA	1:B:962:MET:SD	2.58	0.43
1:B:1268:GLY:HA2	1:B:1271:LEU:HD12	1.99	0.43
1:B:2092:UNK:O	1:B:2092:UNK:CG	2.64	0.43
1:B:2471:PRO:HA	1:B:2625:ILE:HA	2.00	0.43
1:B:2512:TRP:O	1:B:2520:LEU:HD12	2.19	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: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: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: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:2591:ARG:HH12	1:C:2014:SER:N	2.16	0.43
1:B:276:LYS:HB3	1:B:587:TRP:CH2	2.53	0.43
1:B:315:VAL:C	1:B:317:LEU:H	2.22	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:O	1:B:2426:UNK:HG2	2.18	0.43
1:B:2610:ARG:NH1	1:B:2700:LEU:HD11	2.25	0.43
1:C:163:LEU:HD13	1:C:181:LEU:HD23	2.00	0.43
1:C:340:ILE:HD11	1:C:351:ILE:HD13	2.01	0.43
1:C:344:HIS:CD2	1:C:373:ILE:HG13	2.53	0.43
1:C:580:ARG:HD3	1:C:896:ALA:HB3	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:999:UNK:C	1:C:1007:UNK:HG3	2.47	0.43
1:C:2083:UNK:HA	1:C:2086:UNK:HG3	2.00	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:88:SER:HB3	1:C:314:THR:OG1	2.18	0.43
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:A:276:LYS:HB3	1:A:587:TRP:CH2	2.53	0.43
1:A:408:VAL:HG13	1:A:943:UNK:CG	2.48	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:B:34:LEU:O	1:B:38:LEU:HG	2.18	0.43
1:B:88:SER:HB3	1:B:314:THR:OG1	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: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:2014:SER:N	1:C:2591:ARG:NH1	2.66	0.43
1:C:613:GLY:HA2	2:C:4000:FMN:O5'	2.19	0.43
1:C:2064:ARG:HG2	1:C:2100:UNK:HG1	2.01	0.43
1:C:2810:GLY:HA2	1:C:2896:THR:HG22	2.01	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: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:H	1:A:2299:MET:HG2	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:B:163:LEU:HD13	1:B:181:LEU:HD23	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:475:LEU:HD23	1:C:475:LEU:HA	1.79	0.43
1:C:856:PRO:HG2	1:C:874:ASP:HB2	2.00	0.43
1:C:2530:TYR:O	1:C:2533:ALA:N	2.52	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: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: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:B:2810:GLY:HA2	1:B:2896:THR:HG22	2.01	0.43
1:C:1117:ALA:HA	1:C:1120:GLU:HB2	2.01	0.43
1:C:2058:ASP:OD1	1:C:2058:ASP:N	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:782:ARG:HH11	1:A:857:VAL:HG22	1.83	0.42
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:B:874:ASP:OD2	1:B:877:TRP:CD1	2.72	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:2014:SER:N	1:C:2591:ARG:HH12	2.16	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:C:78:GLU:HB2	1:C:176:VAL:HG21	2.01	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:HD23	1:C:1660:LEU:HA	1.86	0.42
1:C:2426:UNK:O	1:C:2426:UNK:HG2	2.18	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: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:355:GLY:HA2	1:B:356:PRO:HD3	1.86	0.42
1:B:1117:ALA:HA	1:B:1120:GLU:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1551:LEU:HD13	1:B:1551:LEU:HA	1.80	0.42
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: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: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:A:211:THR:HB	1:A:286:VAL:HB	2.02	0.42
1:A:613:GLY:HA2	2:A:4000:FMN:O5'	2.19	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: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:B:45:ALA:O	1:B:351:ILE:HA	2.20	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: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:C:1275:ALA:HB2	1:C:1311:PHE:CE2	2.55	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: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:B:53:SER:HA	1:B:359:ILE:HG13	2.01	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: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:107:LEU:HD13	1:A:113:VAL:HB	2.02	0.42
1:A:1021:LEU:HB3	1:A:1034:GLU:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1087:PHE:CZ	1:B:203:ASP:OD2	2.72	0.42
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:211:THR:HB	1:B:286:VAL:HB	2.01	0.42
1:B:341:THR:HG23	1:B:344:HIS:ND1	2.34	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: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:HD23	1:B:2836:LEU:HA	1.87	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: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:2444:UNK:HB2	1:C:2988:PRO:HB3	2.01	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: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:42:GLU:HA	1:B:43:PRO:HD3	1.91	0.42
1:B:107:LEU:HD13	1:B:113:VAL:HB	2.01	0.42
1:B:613:GLY:HA2	2:B:4000:FMN:O5'	2.19	0.42
1:B:2294:SER:HB3	1:B:2310:LYS:HB2	2.02	0.42
1:B:2297:ARG:HH12	1:B:2391:LYS:NZ	2.17	0.42
1:B:2889:ILE:HB	1:B:2924:ILE:HG12	2.01	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: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:A:307:ILE:HG22	1:A:311:TRP:CE2	2.54	0.42
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2889:ILE:HG13	1:A:2922:LEU:HD13	2.02	0.42
1:A:2911:ALA:O	1:A:2916:ARG:HB2	2.19	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: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: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:780:ARG:NH1	1:C:817:GLU:OE2	2.52	0.42
1:C:795:HIS:NE2	1:C:797:GLN:HB2	2.35	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: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: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: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: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: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: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:A:78:GLU:HB2	1:A:176:VAL:HG21	2.01	0.42
1:A:658:SER:HB2	1:A:661:VAL:HG23	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HD3	1:A:2753:LYS:HA	1.83	0.42
1:A:2846:ALA:O	1:A:2859:GLY:HA3	2.20	0.42
1:B:408:VAL:HG13	1:B:943:UNK:CG	2.48	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:C:53:SER:HA	1:C:359:ILE:HG13	2.01	0.42
1:C:436:THR:OG1	1:C:437:PRO:HD3	2.19	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: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:A:1008:UNK:O	1:A:1008:UNK:CG	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:B:970:ILE:O	1:B:974:UNK:HG3	2.20	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:C:668:THR:HG23	1:C:683:GLY:HA3	2.02	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:A:53:SER:HA	1:A:359:ILE:HG13	2.01	0.41
1:A:203:ASP:OD2	1:C:1087:PHE:CZ	2.72	0.41
1:A:976:UNK:O	1:A:976:UNK:CG	2.68	0.41
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:2014:SER:N	1:B:2591:ARG:HH12	2.16	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:B:709:LEU:HD21	1:B:872:ARG:NE	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:HE2	1:B:2405:MET:HA	2.02	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:C:160:GLN:HA	1:C:329:ILE:HD13	2.02	0.41
1:C:1352:PHE:HA	1:C:1353:PRO:HD3	1.72	0.41
1:C:1703:ILE:HG22	1:C:1704:GLY:H	1.85	0.41
1:C:2299:MET:H	1:C:2299:MET:HG2	1.68	0.41
1:C:2450:UNK:HG1	1:C:3016:ALA:CB	2.17	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:A:2294:SER:HB3	1:A:2310:LYS:HB2	2.02	0.41
1:A:2591:ARG:NH1	1:C:2014:SER:H	2.19	0.41
1:B:50:GLY:O	1:B:53:SER:OG	2.36	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: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:C:1611:ILE:HG23	1:C:1624:THR:HA	2.02	0.41
1:C:2200:MET:HB3	1:C:2200:MET:HE3	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:2800:PHE:CZ	1:C:2812:LEU:HD13	2.55	0.41
1:C:2808:ARG:HH21	1:C:2901:PRO:HD3	1.85	0.41
1:A:70:SER:HG	1:A:142:ARG:HH22	1.65	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
1:A:795:HIS:NE2	1:A:797:GLN:HB2	2.35	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2919:GLY:O	1:A:2921:PRO:HD3	2.21	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: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:C:211:THR:HB	1:C:286:VAL:HB	2.01	0.41
1:C:369:ARG:HA	1:C:369:ARG:HD2	1.85	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: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: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: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:O	1:B:1224:UNK:HG2	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: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: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:A:117:LYS:HZ1	1:C:1087:PHE:HD2	1.68	0.41
1:A:233:LEU:HB3	1:A:251:THR:OG1	2.21	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: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:669:LYS:O	1:B:682:ASN:HB3	2.20	0.41
1:B:793:ARG:HH12	1:B:2523:GLU:CD	2.24	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:2563:LEU:HD21	1:B:2567:PHE:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:A:202:GLY:O	1:A:289:PRO:HD2	2.21	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: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:2113:UNK:HA	1:A:2116:UNK:HG3	2.03	0.41
1:A:2113:UNK:HG2	1:A:2114:UNK:N	2.35	0.41
1:B:936:UNK:HA	1:B:939:UNK:CG	2.51	0.41
1:B:2058:ASP:OD1	1:B:2058:ASP:N	2.46	0.41
1:B:2483:VAL:HG13	1:B:2954:VAL:HG11	2.03	0.41
1:C:585:HIS:HB3	1:C:694:ASP:HB2	2.03	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: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: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:B:202:GLY:O	1:B:289:PRO:HD2	2.21	0.41
1:B:233:LEU:HB3	1:B:251:THR:OG1	2.21	0.41
1:B:709:LEU:HD11	1:B:872:ARG:CZ	2.51	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:2770:LEU:CB	1:B:2815:GLN:HB3	2.51	0.41
1:C:515:ALA:HA	1:C:516:PRO:HD3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1460:ALA:O	1:C:1464:VAL:HG22	2.20	0.41
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:A:479:LEU:HD21	1:A:485:ILE:HD11	2.02	0.41
1:A:1099:PRO:HB2	1:A:1295:TRP:HE1	1.86	0.41
1:A:2831:MET:HE2	1:A:2831:MET:HB3	1.87	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: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: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:45:ALA:O	1:A:351:ILE:HA	2.20	0.41
1:A:133:GLN:O	1:A:137:VAL:HG23	2.21	0.41
1:A:278:ARG:HD2	1:A:674:TRP:CE3	2.56	0.41
1:A:585:HIS:HB3	1:A:694:ASP:HB2	2.03	0.41
1:A:594:LEU:O	1:A:598:TYR:HB2	2.21	0.41
1:A:795:HIS:HE2	1:A:797:GLN:HB2	1.86	0.41
1:A:936:UNK:HA	1:A:939:UNK:CG	2.51	0.41
1:A:985:UNK:O	1:A:988:UNK:HG3	2.21	0.41
1:A:1224:UNK:O	1:A:1224:UNK:HG2	2.20	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:2114:UNK:O	1:A:2118:UNK:HG3	2.21	0.41
1:A:2961:LEU:HD22	1:A:2976:TRP:HD1	1.85	0.41
1:A:3057:ASP:OD1	1:A:3057:ASP:N	2.54	0.41
1:B:360:LEU:HA	1:B:363:LEU:HB3	2.03	0.41
1:B:369:ARG:HA	1:B:369:ARG:HD2	1.85	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:B:1017:ILE:HG12	1:B:1045:VAL:HG11	2.03	0.41
1:B:1637:VAL:HA	1:B:1638:PRO:HD2	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:2989:LEU:HD12	1:B:2989:LEU:HA	1.77	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:C:233:LEU:HB3	1:C:251:THR:OG1	2.21	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:C:1002:UNK:CG	1:C:1005:UNK:HB2	2.51	0.41
1:C:1099:PRO:HB2	1:C:1295:TRP:HE1	1.86	0.41
1:C:1491:ASP:HB2	1:C:1495:ARG:HB2	2.02	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:2492:VAL:HG12	1:C:2526:ILE:HG22	2.02	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:3057:ASP:OD1	1:C:3057:ASP:N	2.54	0.41
1:A:793:ARG:HH12	1:A:2523:GLU:CD	2.24	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:B:594:LEU:O	1:B:598:TYR:HB2	2.21	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:C:278:ARG:HD2	1:C:674:TRP:CE3	2.56	0.41
1:C:594:LEU:O	1:C:598:TYR:HB2	2.21	0.41
1:C:709:LEU:HD11	1:C:872:ARG:CZ	2.51	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: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:180:ALA:O	1:C:184:LEU:HG	2.21	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:984:UNK:HG2	1:C:984:UNK:O	2.20	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:2300:PHE:HZ	1:C:2398:LEU:HB3	1.85	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: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:HD12	1:A:1695:LEU:HA	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:HE2	1:A:2405:MET:HA	2.03	0.40
1:A:2710:LEU:HD12	1:A:2713:VAL:HG21	2.03	0.40
1:B:133:GLN:O	1:B:137:VAL:HG23	2.21	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:B:1087:PHE:CD1	1:C:198:ILE:HG23	2.56	0.40
1:B:1237:ARG:HH11	1:B:1237:ARG:HG2	1.86	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:OD1	1:B:2400:ASP:N	2.45	0.40
1:B:2978:ARG:HG3	1:B:2979:GLU:HG3	2.03	0.40
1:C:133:GLN:O	1:C:137:VAL:HG23	2.21	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:C:1215:UNK:CG	1:C:1216:UNK:N	2.84	0.40
1:C:1400:PRO:O	1:C:1415:GLY:HA2	2.21	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:A:198:ILE:HG23	1:C:1087:PHE:CD1	2.56	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: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:B:984:UNK:HG2	1:B:984:UNK:O	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2014:SER:H	1:C:2591:ARG:NH1	2.19	0.40
1:B:2093:UNK:HB2	1:B:2129:UNK:HB2	2.03	0.40
1:B:2114:UNK:O	1:B:2117:UNK:HG3	2.21	0.40
1:B:2672:TRP:CZ3	1:B:2830:LYS:HG2	2.56	0.40
1:C:745:THR:HG22	1:C:747:LEU:N	2.37	0.40
1:C:793:ARG:HH12	1:C:2523:GLU:CD	2.24	0.40
1:C:794:LEU:HD12	1:C:830:TYR:HB3	2.04	0.40
1:C:799:PHE:CZ	1:C:2433:UNK:CG	2.99	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:C:1237:ARG:HG2	1:C:1237:ARG:HH11	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: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:A:180:ALA:O	1:A:184:LEU:HG	2.21	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:A:1706:LYS:HA	1:A:1735:GLU:HG3	2.03	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:B:142:ARG:HD3	1:B:142:ARG:HA	1.91	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: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:1353:PRO:HB2	1:B:1707:SER:HB2	2.04	0.40
1:B:1380:ALA:HB1	1:B:1474:LEU:CD1	2.50	0.40
1:B:2907:HIS:HA	1:B:2910:ILE:HG12	2.04	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: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:A:1013:UNK:CG	1:A:1014:UNK:N	2.58	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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:C:408:VAL:HG23	1:C:418:GLU:HB2	2.04	0.40
1:C:2930:LEU:HD23	1:C:2930:LEU:HA	1.93	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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%)	41	77
1	B	2637/3089 (85%)	2489 (94%)	140 (5%)	8 (0%)	41	77
1	C	2637/3089 (85%)	2489 (94%)	139 (5%)	9 (0%)	41	77
1	D	2637/3089 (85%)	2488 (94%)	140 (5%)	9 (0%)	41	77
1	E	2637/3089 (85%)	2488 (94%)	141 (5%)	8 (0%)	41	77
1	F	2637/3089 (85%)	2488 (94%)	140 (5%)	9 (0%)	41	77
All	All	15822/18534 (85%)	14931 (94%)	840 (5%)	51 (0%)	44	77

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 [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	2076/2264 (92%)	1987 (96%)	89 (4%)	29	53
1	B	2076/2264 (92%)	1986 (96%)	90 (4%)	29	53
1	C	2076/2264 (92%)	1987 (96%)	89 (4%)	29	53
1	D	2076/2264 (92%)	1987 (96%)	89 (4%)	29	53
1	E	2076/2264 (92%)	1987 (96%)	89 (4%)	29	53
1	F	2076/2264 (92%)	1987 (96%)	89 (4%)	29	53
All	All	12456/13584 (92%)	11921 (96%)	535 (4%)	33	53

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

Sometimes 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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

6 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	FMN	E	4000	-	33,33,33	1.07	2 (6%)	48,50,50	1.26	8 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	FMN	B	4000	-	33,33,33	1.08	2 (6%)	48,50,50	1.26	8 (16%)
2	FMN	F	4000	-	33,33,33	1.07	2 (6%)	48,50,50	1.26	7 (14%)
2	FMN	D	4000	-	33,33,33	1.07	2 (6%)	48,50,50	1.26	8 (16%)
2	FMN	C	4000	-	33,33,33	1.07	2 (6%)	48,50,50	1.26	7 (14%)
2	FMN	A	4000	-	33,33,33	1.07	2 (6%)	48,50,50	1.26	8 (16%)

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	E	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	B	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	F	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	D	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	C	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	A	4000	-	-	5/18/18/18	0/3/3/3

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	4000	FMN	C4A-N5	4.13	1.38	1.30
2	E	4000	FMN	C4A-N5	4.11	1.38	1.30
2	F	4000	FMN	C4A-N5	4.08	1.38	1.30
2	C	4000	FMN	C4A-N5	4.08	1.38	1.30
2	D	4000	FMN	C4A-N5	4.08	1.38	1.30
2	A	4000	FMN	C4A-N5	4.08	1.38	1.30
2	C	4000	FMN	C10-N1	2.28	1.37	1.33
2	E	4000	FMN	C10-N1	2.25	1.37	1.33
2	D	4000	FMN	C10-N1	2.24	1.37	1.33
2	B	4000	FMN	C10-N1	2.24	1.37	1.33
2	F	4000	FMN	C10-N1	2.23	1.37	1.33
2	A	4000	FMN	C10-N1	2.22	1.37	1.33

All (46) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	4000	FMN	C4-N3-C2	-3.01	120.08	125.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	4000	FMN	C4-N3-C2	-3.00	120.09	125.64
2	E	4000	FMN	C4-N3-C2	-2.99	120.11	125.64
2	B	4000	FMN	C4-N3-C2	-2.98	120.13	125.64
2	D	4000	FMN	C4-N3-C2	-2.97	120.15	125.64
2	A	4000	FMN	C4-N3-C2	-2.97	120.15	125.64
2	E	4000	FMN	C4A-C10-N10	2.95	120.79	116.48
2	C	4000	FMN	C4A-C10-N10	2.94	120.78	116.48
2	B	4000	FMN	C4A-C10-N10	2.92	120.76	116.48
2	D	4000	FMN	C4A-C10-N10	2.92	120.74	116.48
2	A	4000	FMN	C4A-C10-N10	2.92	120.74	116.48
2	F	4000	FMN	C4A-C10-N10	2.92	120.74	116.48
2	B	4000	FMN	C4A-C4-N3	2.62	119.84	113.19
2	E	4000	FMN	C4A-C4-N3	2.61	119.82	113.19
2	C	4000	FMN	C4A-C4-N3	2.61	119.81	113.19
2	F	4000	FMN	C4A-C4-N3	2.61	119.81	113.19
2	D	4000	FMN	C4A-C4-N3	2.60	119.80	113.19
2	A	4000	FMN	C4A-C4-N3	2.60	119.80	113.19
2	E	4000	FMN	C10-C4A-N5	-2.59	119.36	124.86
2	B	4000	FMN	C10-C4A-N5	-2.56	119.42	124.86
2	D	4000	FMN	C10-C4A-N5	-2.56	119.43	124.86
2	A	4000	FMN	C10-C4A-N5	-2.56	119.43	124.86
2	C	4000	FMN	C10-C4A-N5	-2.54	119.46	124.86
2	F	4000	FMN	C10-C4A-N5	-2.53	119.48	124.86
2	D	4000	FMN	O4-C4-C4A	-2.43	120.14	126.60
2	F	4000	FMN	O4-C4-C4A	-2.42	120.17	126.60
2	E	4000	FMN	O4-C4-C4A	-2.42	120.18	126.60
2	B	4000	FMN	O4-C4-C4A	-2.42	120.18	126.60
2	A	4000	FMN	O4-C4-C4A	-2.41	120.21	126.60
2	C	4000	FMN	O4-C4-C4A	-2.40	120.22	126.60
2	E	4000	FMN	C4-C4A-N5	2.28	121.47	118.23
2	B	4000	FMN	C4-C4A-N5	2.26	121.45	118.23
2	D	4000	FMN	C4-C4A-N5	2.26	121.45	118.23
2	A	4000	FMN	C4-C4A-N5	2.26	121.45	118.23
2	F	4000	FMN	C4-C4A-N5	2.22	121.39	118.23
2	C	4000	FMN	C4-C4A-N5	2.22	121.39	118.23
2	D	4000	FMN	C9A-C5A-N5	-2.20	120.04	122.43
2	C	4000	FMN	C9A-C5A-N5	-2.20	120.04	122.43
2	F	4000	FMN	C9A-C5A-N5	-2.20	120.05	122.43
2	A	4000	FMN	C9A-C5A-N5	-2.18	120.06	122.43
2	B	4000	FMN	C9A-C5A-N5	-2.16	120.08	122.43
2	E	4000	FMN	C9A-C5A-N5	-2.15	120.10	122.43
2	B	4000	FMN	O2-C2-N1	-2.03	118.46	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	4000	FMN	O2-C2-N1	-2.02	118.48	121.83
2	A	4000	FMN	O2-C2-N1	-2.00	118.51	121.83
2	E	4000	FMN	O2-C2-N1	-2.00	118.51	121.83

There are no chirality outliers.

All (30) torsion outliers are listed below:

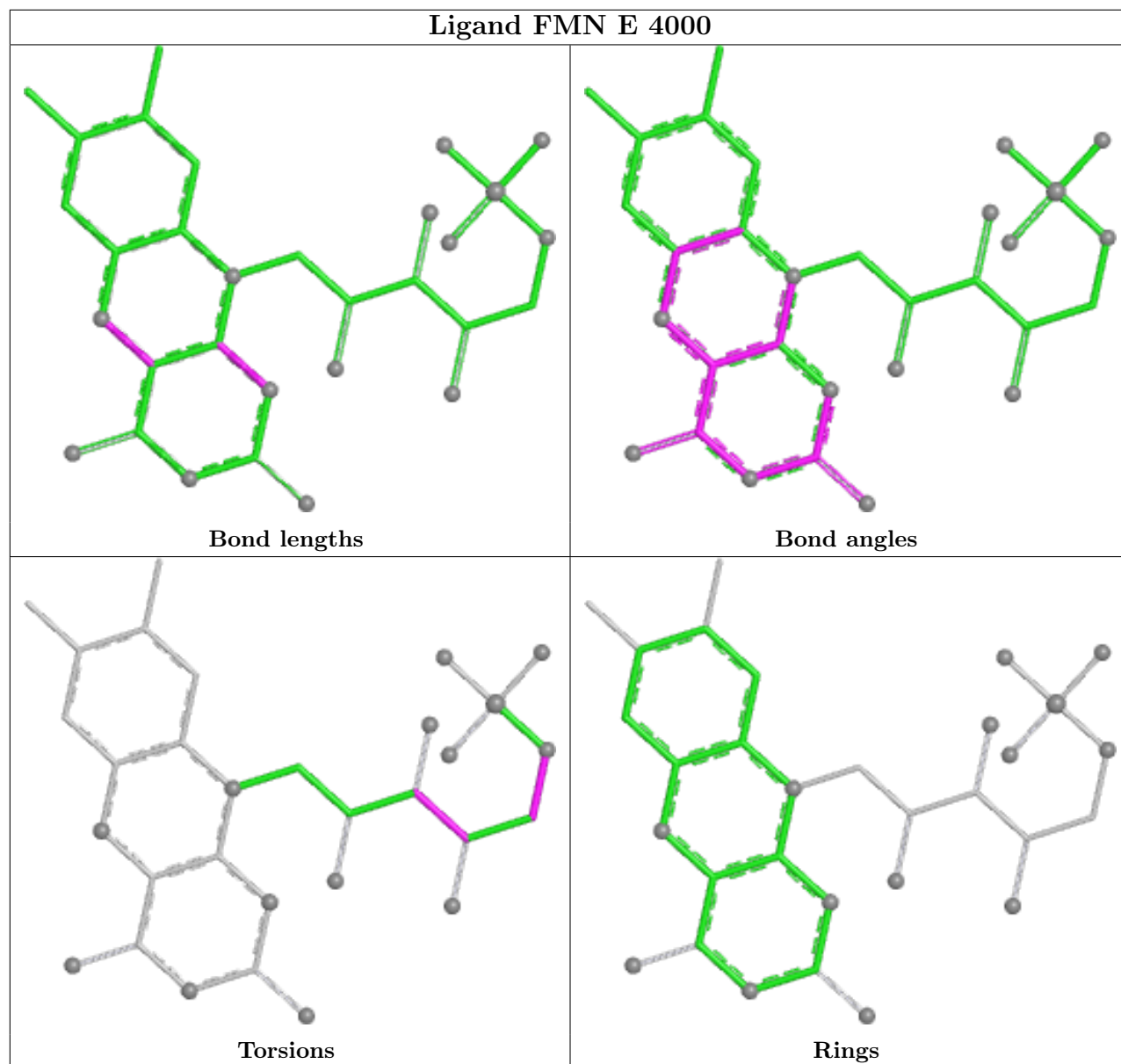
Mol	Chain	Res	Type	Atoms
2	D	4000	FMN	O3'-C3'-C4'-C5'
2	E	4000	FMN	O3'-C3'-C4'-C5'
2	F	4000	FMN	O3'-C3'-C4'-C5'
2	A	4000	FMN	O3'-C3'-C4'-C5'
2	B	4000	FMN	O3'-C3'-C4'-C5'
2	C	4000	FMN	O3'-C3'-C4'-C5'
2	D	4000	FMN	C2'-C3'-C4'-C5'
2	E	4000	FMN	C2'-C3'-C4'-C5'
2	F	4000	FMN	C2'-C3'-C4'-C5'
2	A	4000	FMN	C2'-C3'-C4'-C5'
2	B	4000	FMN	C2'-C3'-C4'-C5'
2	C	4000	FMN	C2'-C3'-C4'-C5'
2	D	4000	FMN	C2'-C3'-C4'-O4'
2	E	4000	FMN	C2'-C3'-C4'-O4'
2	F	4000	FMN	C2'-C3'-C4'-O4'
2	A	4000	FMN	C2'-C3'-C4'-O4'
2	B	4000	FMN	C2'-C3'-C4'-O4'
2	C	4000	FMN	C2'-C3'-C4'-O4'
2	D	4000	FMN	C4'-C5'-O5'-P
2	E	4000	FMN	C4'-C5'-O5'-P
2	F	4000	FMN	C4'-C5'-O5'-P
2	A	4000	FMN	C4'-C5'-O5'-P
2	B	4000	FMN	C4'-C5'-O5'-P
2	C	4000	FMN	C4'-C5'-O5'-P
2	D	4000	FMN	O3'-C3'-C4'-O4'
2	E	4000	FMN	O3'-C3'-C4'-O4'
2	F	4000	FMN	O3'-C3'-C4'-O4'
2	A	4000	FMN	O3'-C3'-C4'-O4'
2	B	4000	FMN	O3'-C3'-C4'-O4'
2	C	4000	FMN	O3'-C3'-C4'-O4'

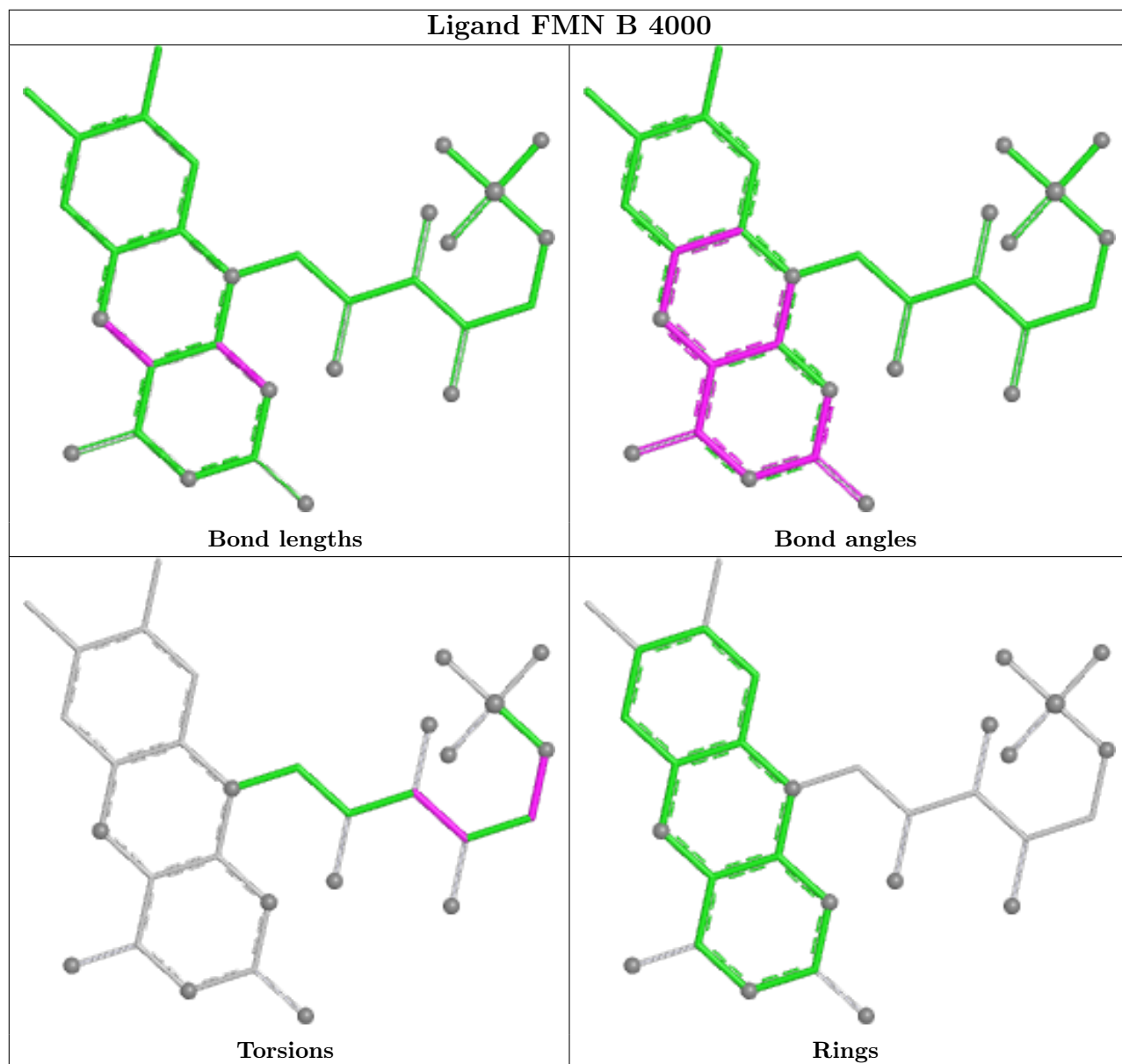
There are no ring outliers.

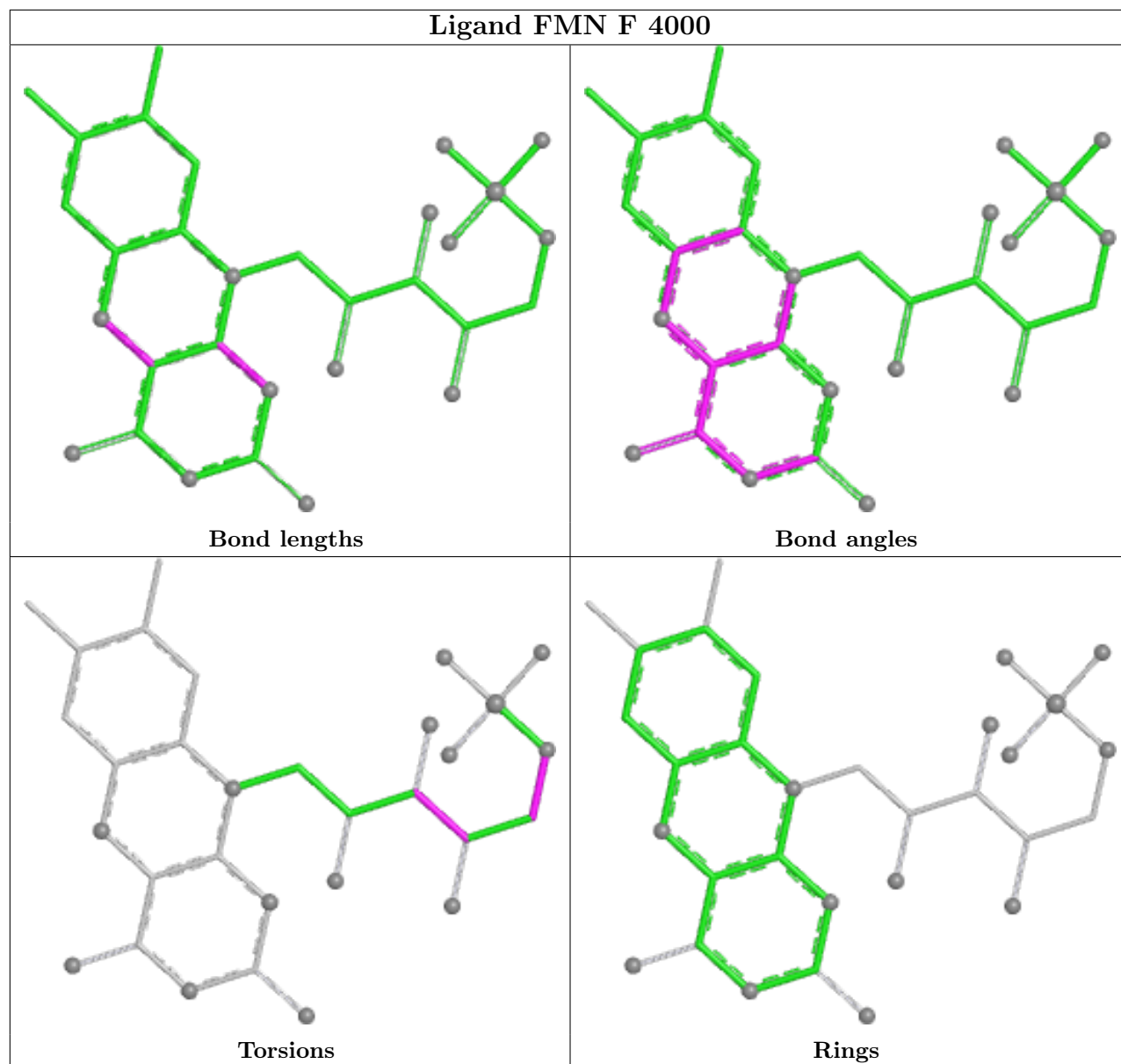
3 monomers are involved in 14 short contacts:

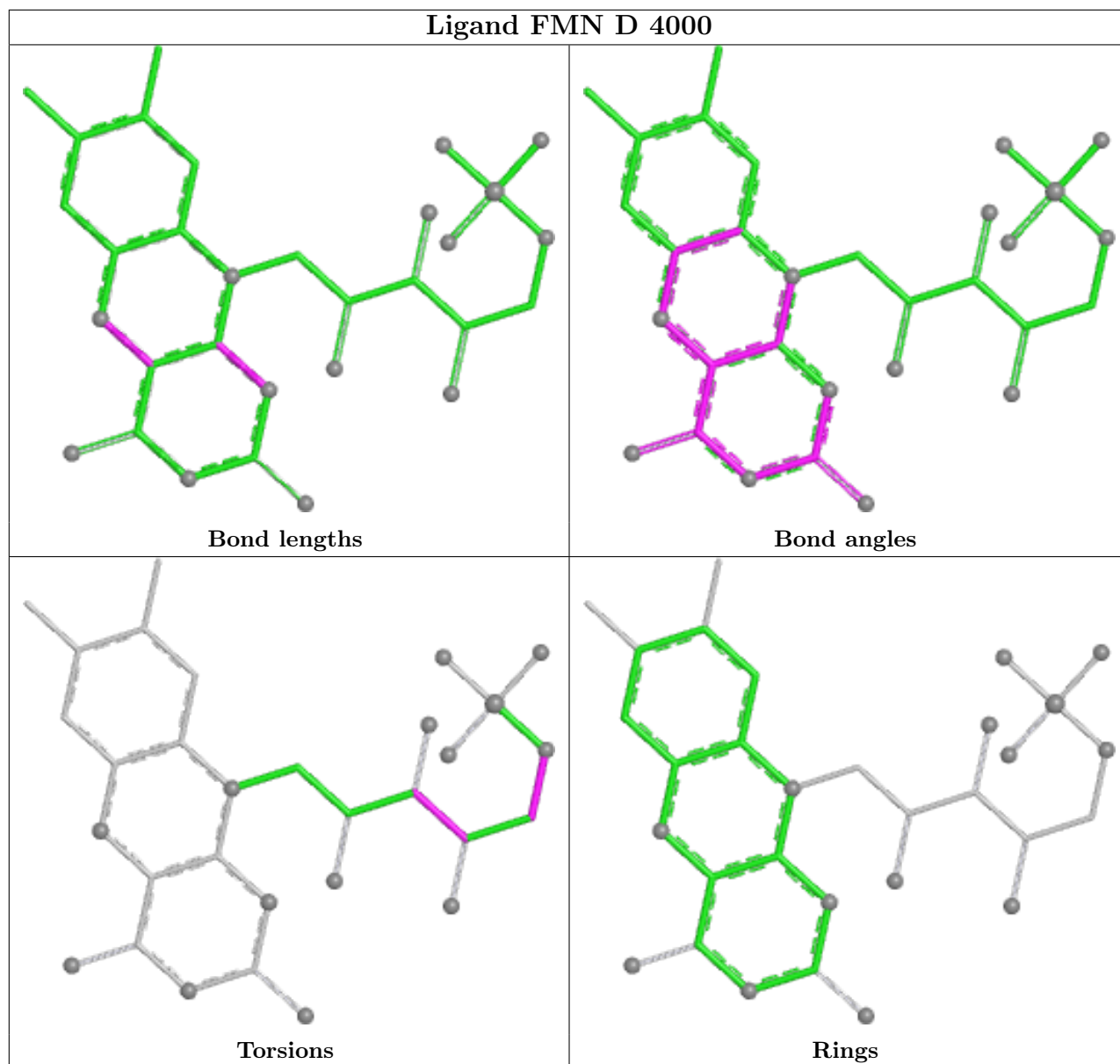
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	4000	FMN	5	0
2	C	4000	FMN	4	0
2	A	4000	FMN	5	0

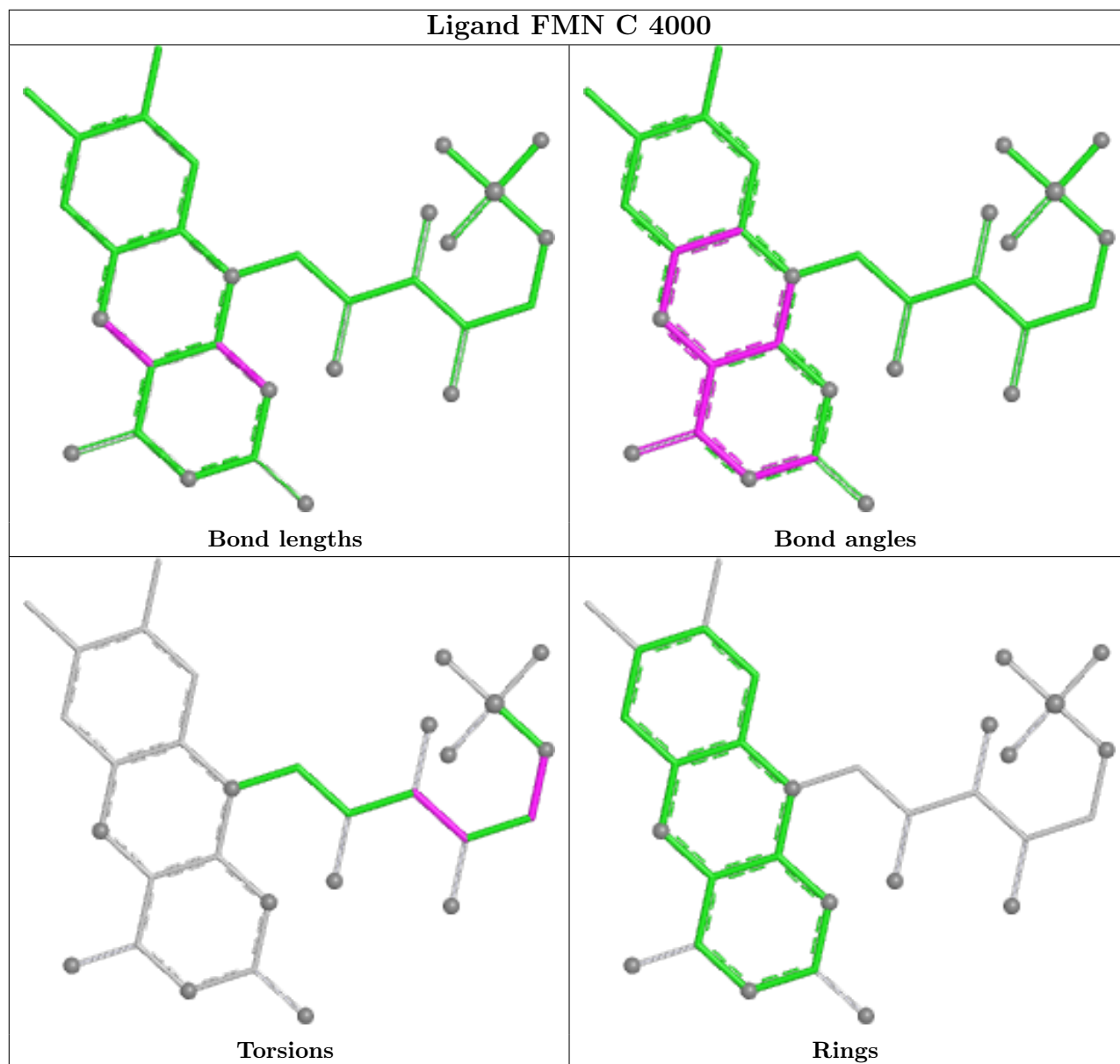
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

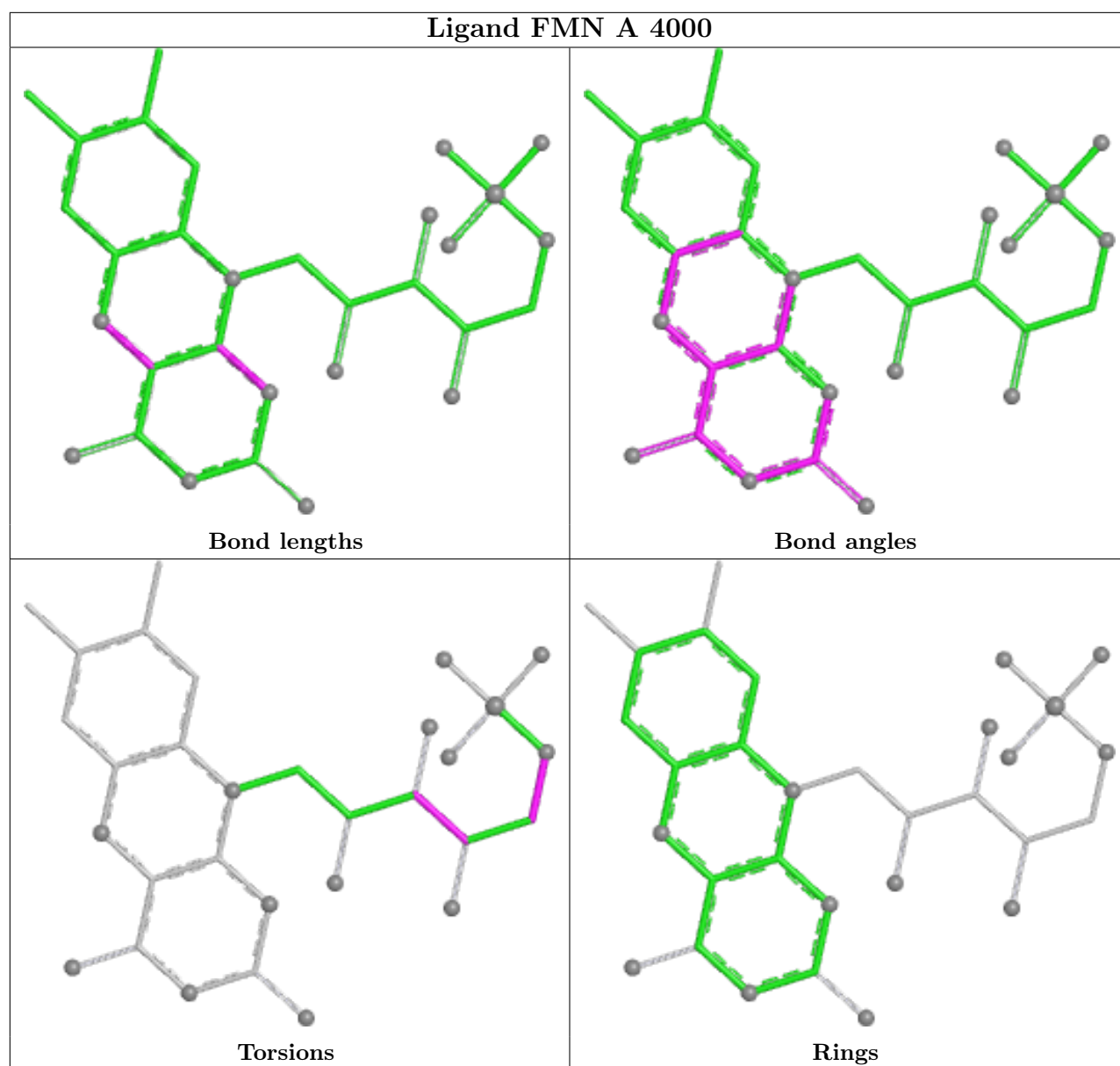












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

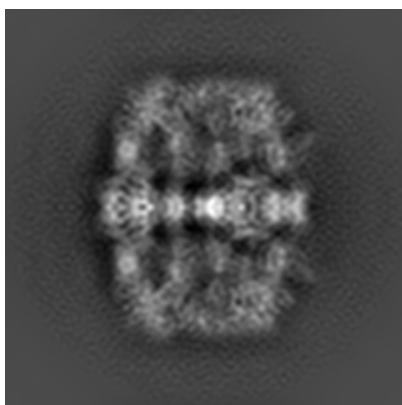
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2238. These allow visual inspection of the internal detail of the map and identification of artifacts.

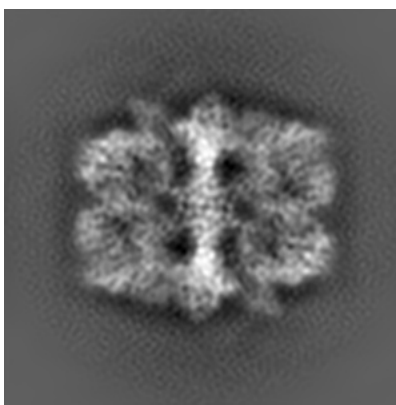
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

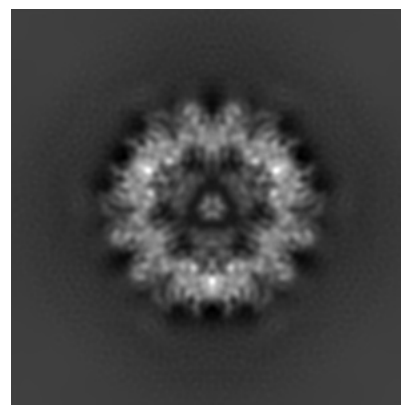
6.1.1 Primary map



X



Y

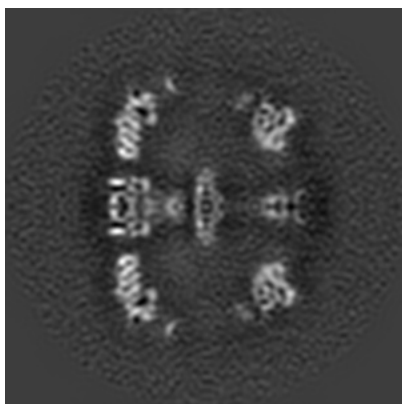


Z

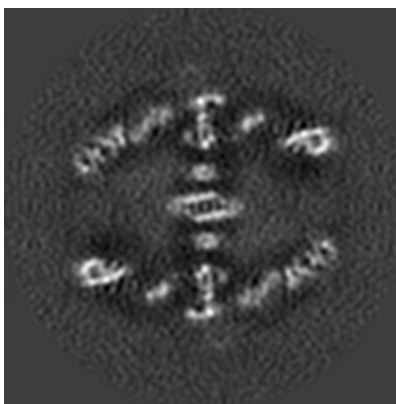
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

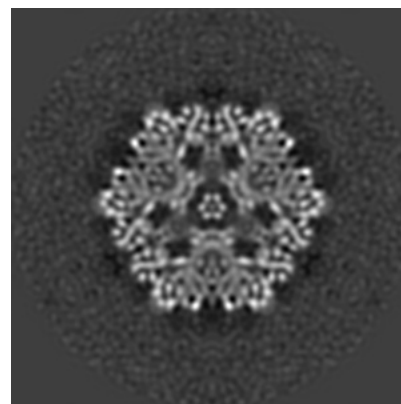
6.2.1 Primary map



X Index: 80



Y Index: 80

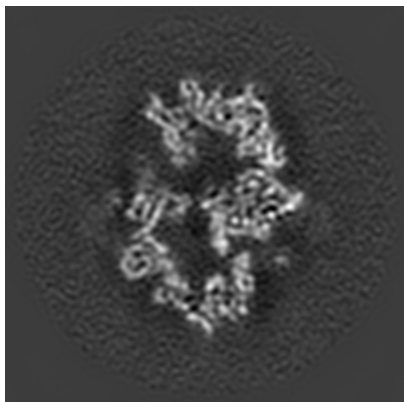


Z Index: 80

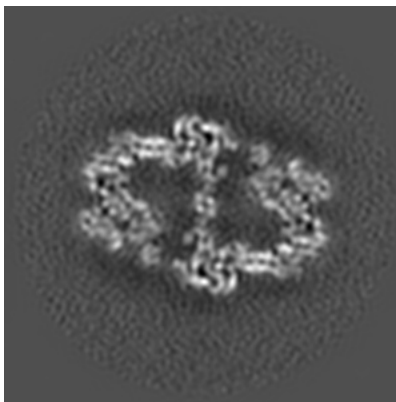
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

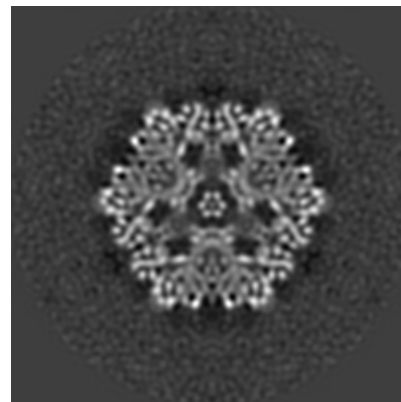
6.3.1 Primary map



X Index: 55



Y Index: 105



Z Index: 80

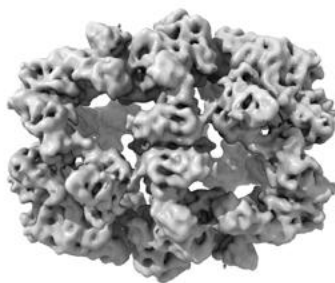
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

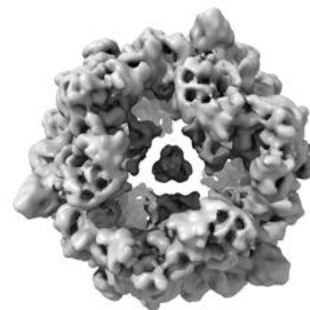
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.7. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

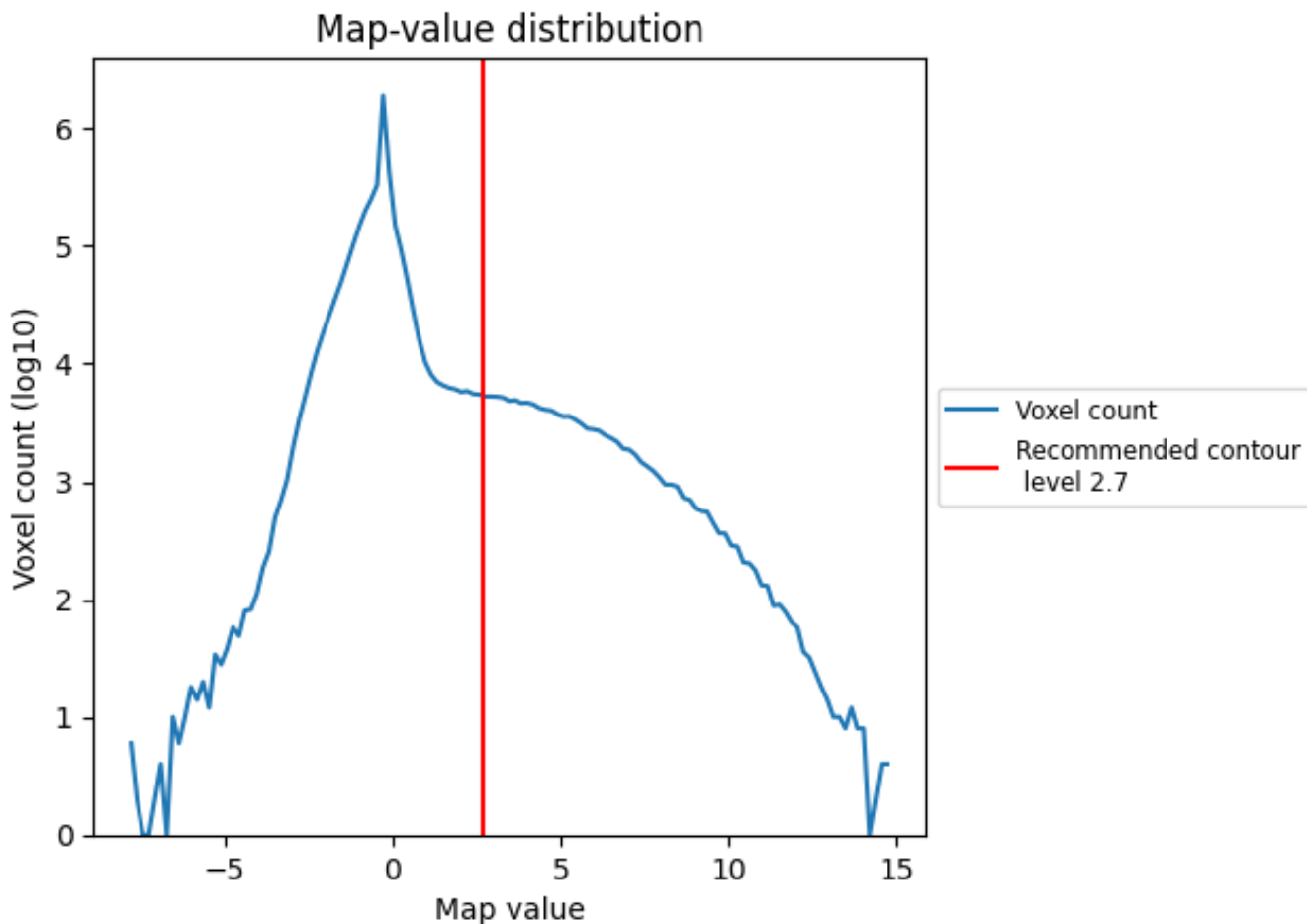
6.5 Mask visualisation

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

7 Map analysis [i](#)

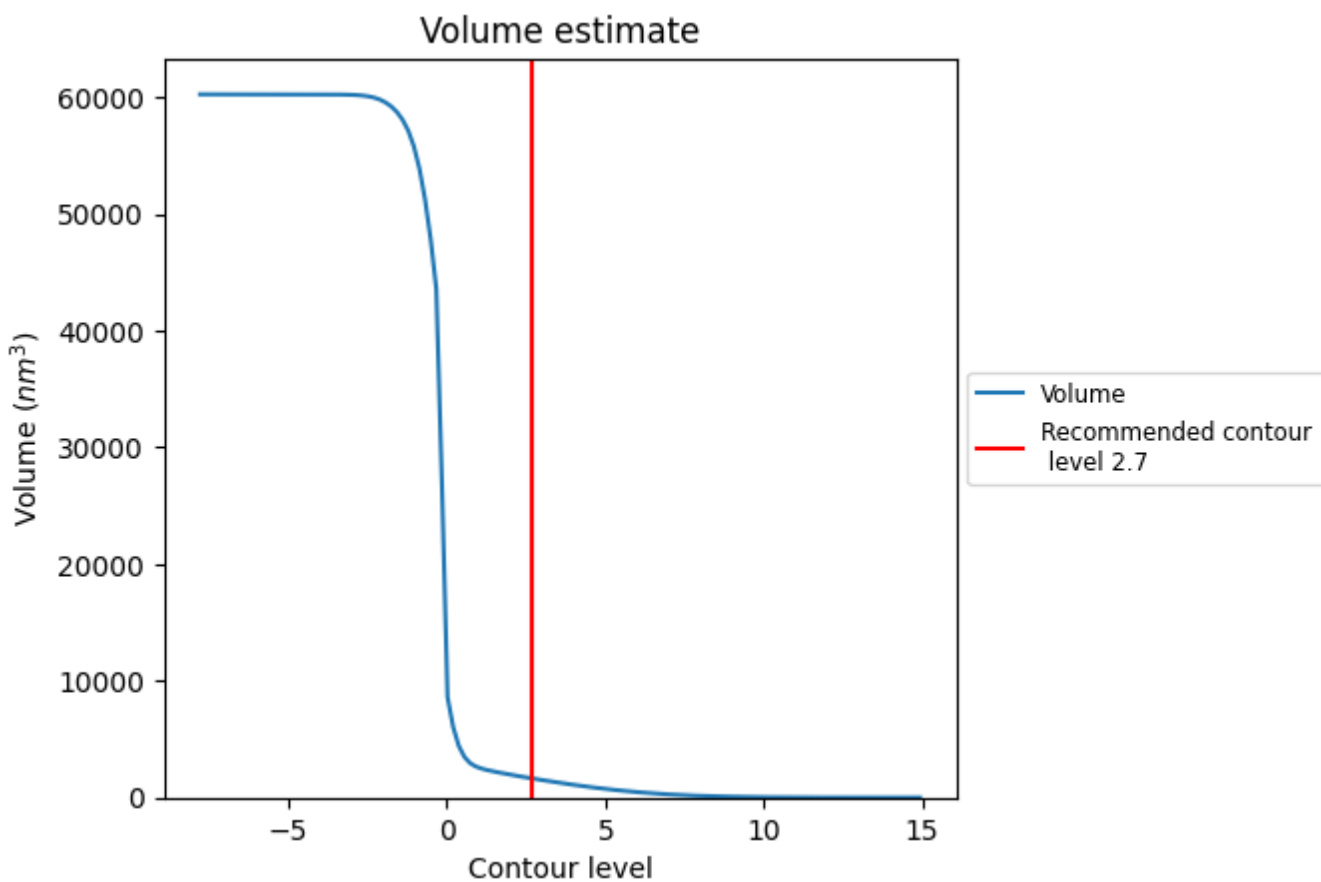
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

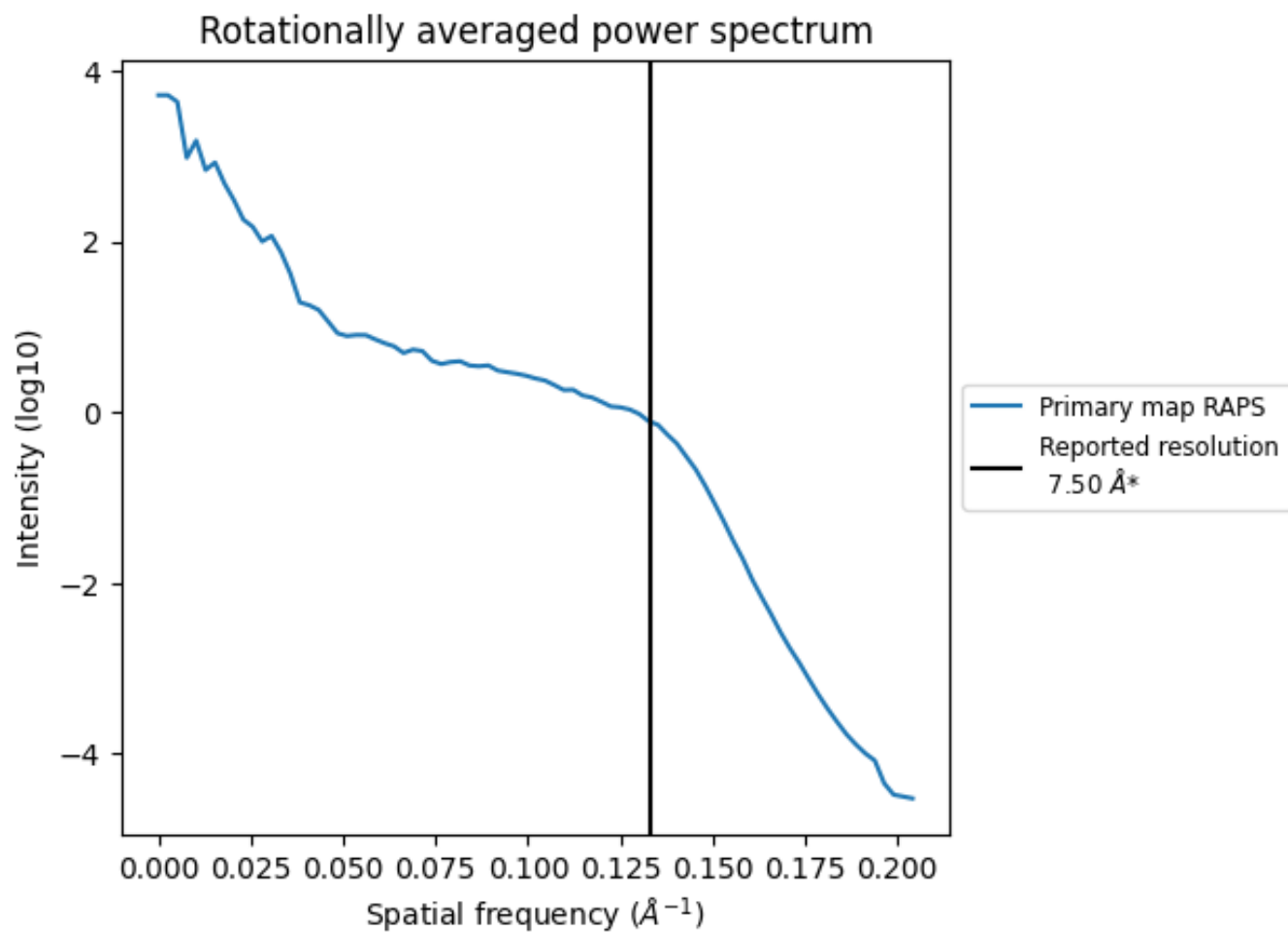
7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 1634 nm^3 ; this corresponds to an approximate mass of 1476 kDa.

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

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.133 Å⁻¹

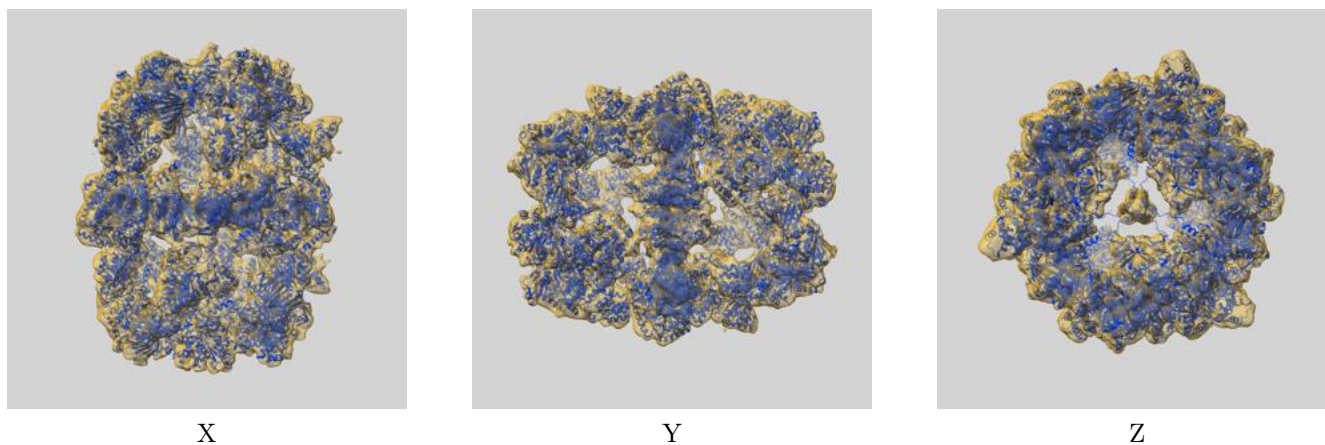
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

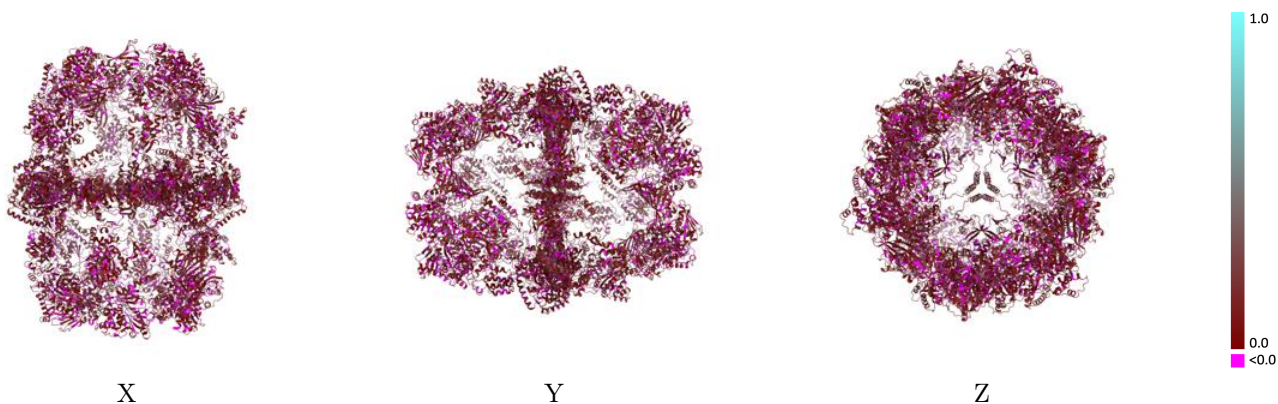
This section contains information regarding the fit between EMDB map EMD-2238 and PDB model 4V8L. Per-residue inclusion information can be found in section 3 on page 31.

9.1 Map-model overlay [i](#)



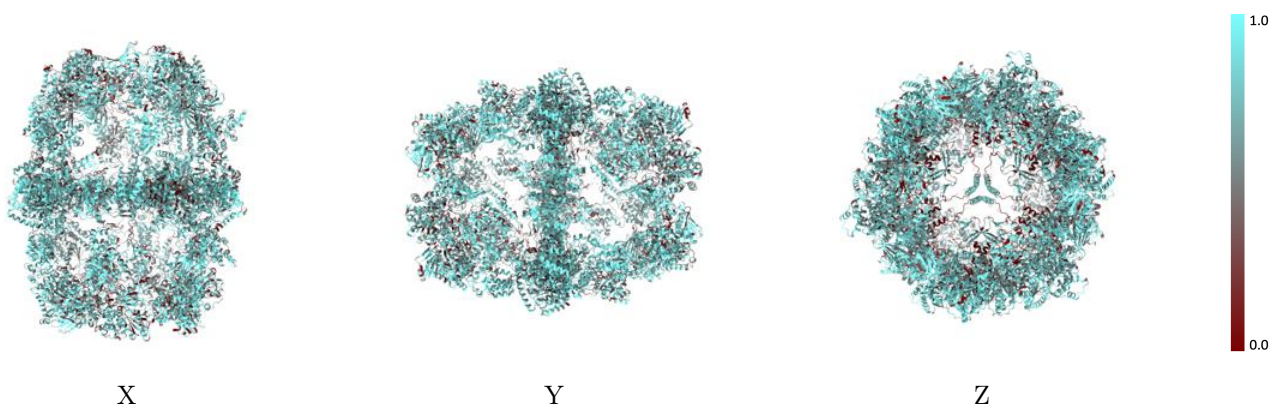
The images above show the 3D surface view of the map at the recommended contour level 2.7 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



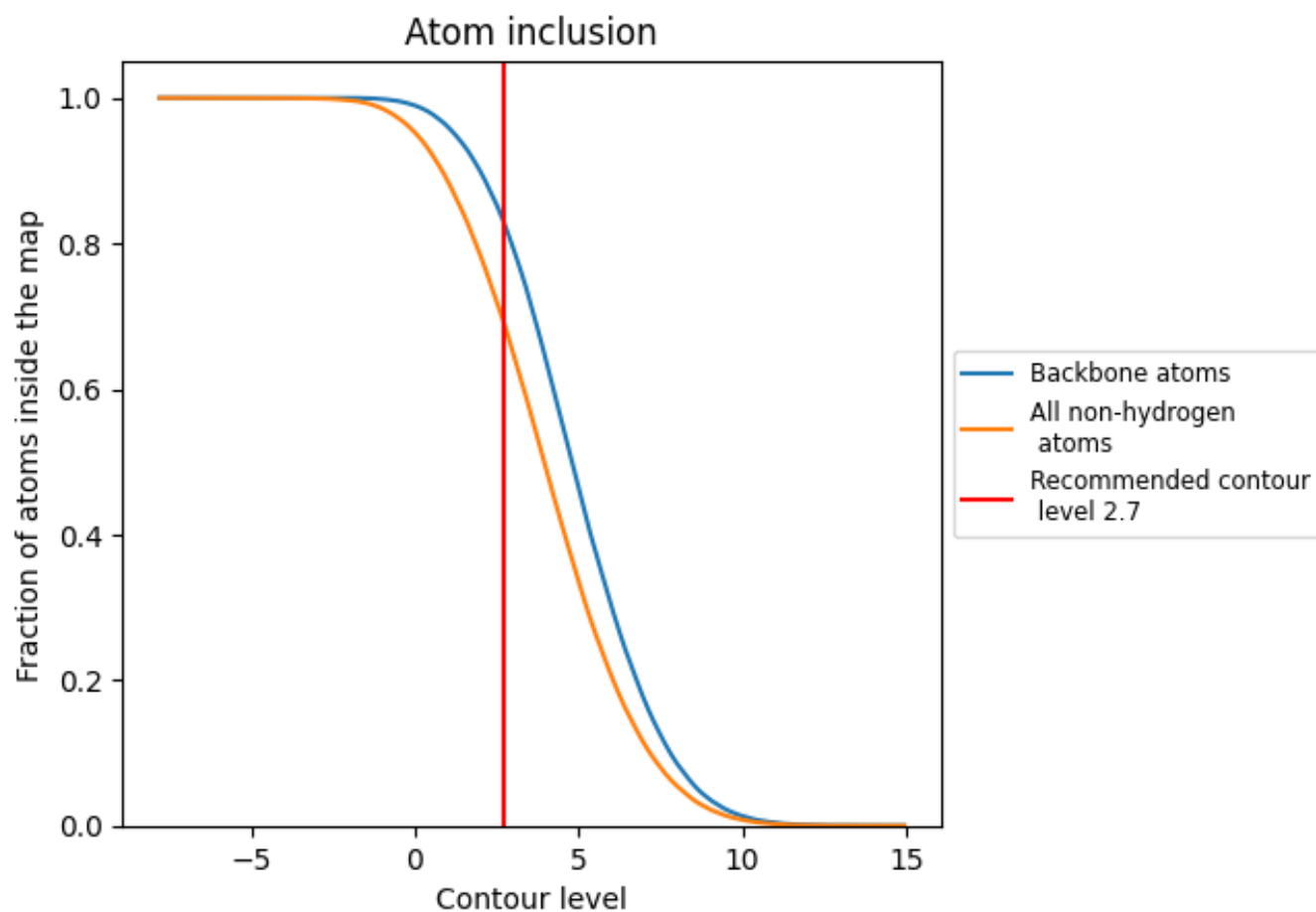
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2.7).















9.4 Atom inclusion [i](#)



At the recommended contour level, 83% of all backbone atoms, 69% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (2.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6932	 0.1100
A	 0.6749	 0.1000
B	 0.6945	 0.1130
C	 0.6892	 0.1090
D	 0.6976	 0.1120
E	 0.6908	 0.1080
F	 0.7121	 0.1200

