



Full wwPDB EM Validation Report ⓘ

Mar 28, 2026 – 02:13 AM UTC

PDB ID : 8RRW / pdb_00008rrw
EMDB ID : EMD-19467
Title : Structure of RyR1 in detergent in open state in complex with FKBP and Nb9657.
Authors : Li, C.; Efremov, R.G.
Deposited on : 2024-01-23
Resolution : 4.20 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

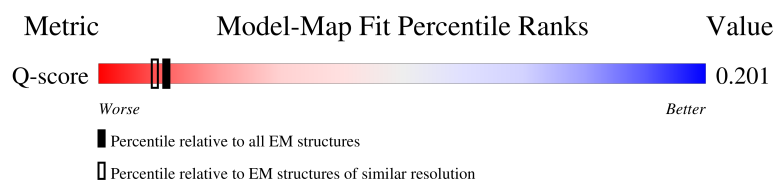
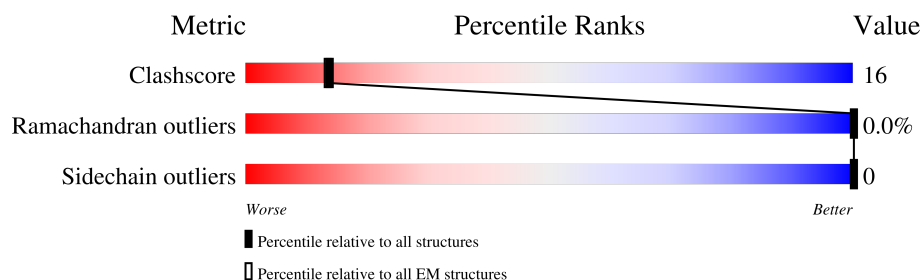
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.20 Å.

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



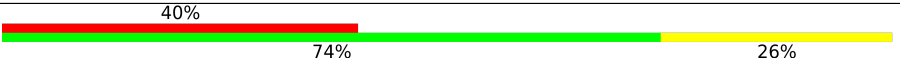
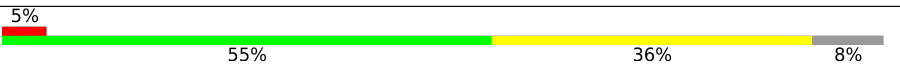
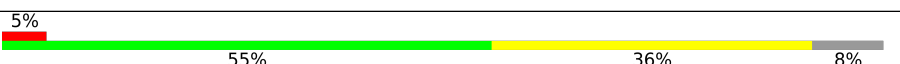
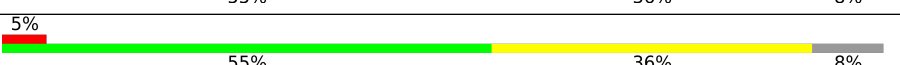
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	5410 (3.70 - 4.70)

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	B	5027	
1	E	5027	
1	G	5027	
1	J	5027	

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Mol	Chain	Length	Quality of chain
2	A	107	
2	D	107	
2	H	107	
2	I	107	
3	C	137	
3	F	137	
3	K	137	
3	M	137	

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 143744 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 Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	4319	Total	C	N	O	S	1	0
			34104	21737	5881	6261	225		
1	E	4319	Total	C	N	O	S	1	0
			34104	21737	5881	6261	225		
1	G	4319	Total	C	N	O	S	1	0
			34104	21737	5881	6261	225		
1	J	4319	Total	C	N	O	S	1	0
			34104	21737	5881	6261	225		

- Molecule 2 is a protein called Peptidyl-prolyl cis-trans isomerase FKBP1B.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
2	D	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
2	H	107	Total	C	N	O	S	0	0
			818	516	144	154	4		
2	I	107	Total	C	N	O	S	0	0
			818	516	144	154	4		

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	100	ASP	GLY	conflict	UNP Q8HYX6
D	100	ASP	GLY	conflict	UNP Q8HYX6
H	100	ASP	GLY	conflict	UNP Q8HYX6
I	100	ASP	GLY	conflict	UNP Q8HYX6

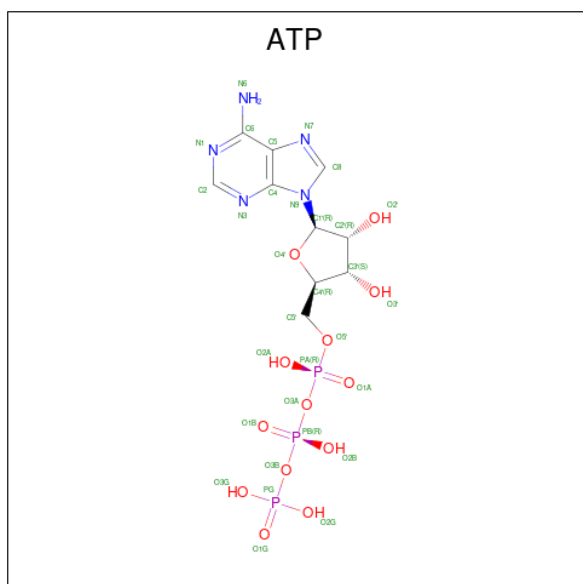
- Molecule 3 is a protein called Nanobody 9657.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	126	Total	C	N	O	S	0	0
			967	597	170	195	5		
3	F	126	Total	C	N	O	S	0	0
			967	597	170	195	5		
3	K	126	Total	C	N	O	S	0	0
			967	597	170	195	5		
3	M	126	Total	C	N	O	S	0	0
			967	597	170	195	5		

- Molecule 4 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
4	B	1	Total	Zn	0
			1	1	
4	E	1	Total	Zn	0
			1	1	
4	G	1	Total	Zn	0
			1	1	
4	J	1	Total	Zn	0
			1	1	

- Molecule 5 is ADENOSINE-5'-TRIPHOSPHATE (CCD ID: ATP) (formula: C₁₀H₁₆N₅O₁₃P₃) (labeled as "Ligand of Interest" by depositor).



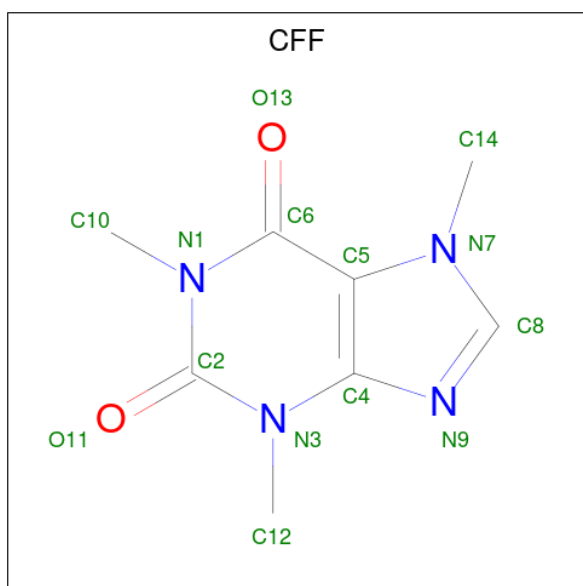
Mol	Chain	Residues	Atoms					AltConf
5	B	1	Total	C	N	O	P	0
			31	10	5	13	3	

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Mol	Chain	Residues	Atoms					AltConf
5	E	1	Total	C	N	O	P	0
			31	10	5	13	3	
5	G	1	Total	C	N	O	P	0
			31	10	5	13	3	
5	J	1	Total	C	N	O	P	0
			31	10	5	13	3	

- Molecule 6 is CAFFEINE (CCD ID: CFF) (formula: $C_8H_{10}N_4O_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				AltConf
6	B	1	Total	C	N	O	0
			14	8	4	2	
6	E	1	Total	C	N	O	0
			14	8	4	2	
6	G	1	Total	C	N	O	0
			14	8	4	2	
6	J	1	Total	C	N	O	0
			14	8	4	2	

- Molecule 7 is CALCIUM ION (CCD ID: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
7	B	1	Total	Ca	0
			1	1	

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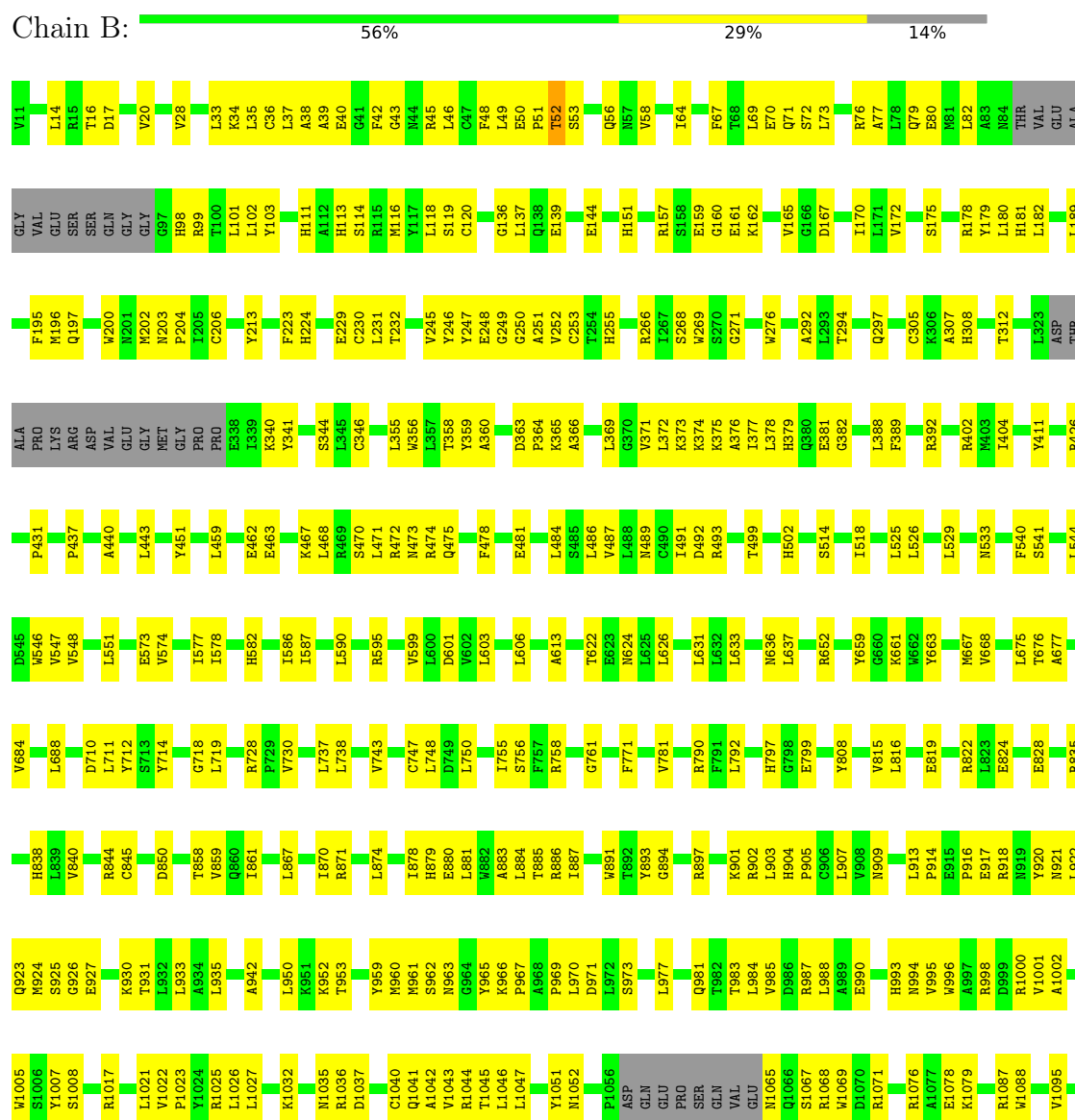
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Mol	Chain	Residues	Atoms		AltConf
7	E	1	Total 1	Ca 1	0
7	G	1	Total 1	Ca 1	0
7	J	1	Total 1	Ca 1	0

3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and 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: Ryanodine receptor 1









Response	Percentage
Doing a good job	57%
Not doing a good job	29%
Don't know	14%

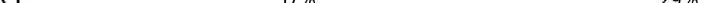


M1601	R1508	ASP	GLY	S1292	I1182	A1077	W996	P914	E819	F664	H534	R426	K322	F195	GLY
W1605	D1513	N1420	GLY	L1293	E1183	E1078	A997	E915	R822	M667	A535	P431	L323	M196	VAL
L1514	L1514	P1424	THR	I1184	I1184	K1079	D998	P916	R822	V668	L539	P437	ASP	GLU	THR
V1515	V1515		GLN	F1297	L1189	R1087	D999	E917	E824	V668	L539	ALA	THR	SER	GLN
I1516	I1516	I1427	PRO		L1194	V1088	V1001	R919	E828	L675	S541	A440	ALA	W200	GLY
G1517	G1517	L1428	GLY	T1304	L1194	V1095	A1002	Y920	E828	T676	L544	A440	PRO	X201	GLY
C1518	C1518		VAL		V1199			N921	R835	A677	D545		LYS	M202	GLY
L1519	L1519	T1431	GLU		V1199	E1099	W1005	L922	R835	L688	D545	L443	ARG	N203	GLY
L1619	L1619	T1432	ALA		G1200	E1099	S1006	Q923	R835	L688	D545	L443	ASP	P204	GLY
A1620	A1620	Y1433	GLN		H1201	M1100	Y1007	N924	H838	V547	W546	L443	ASP	R99	GLY
A1523	A1523	Y1434	PRO		R1101	R1101	S1008	S925	H838	V548	W546	L443	VAL	T100	GLY
			VAL		N1203	V1102		G926	L839	D710	L551	L445	GLU	L101	GLY
			ALA		L1284	V1102	R1017	E927	V840	L711	L551	L445	GLY	L102	GLY
			PRO		L1284	V1102	R1017	E927	V840	L711	L551	L445	GLY	Y103	GLY
			ARG		G1205	P1107			R844	L712	L551	L445	GLY		
			ALA		G1205	P1107			R844	L712	L551	L445	GLY		
			GLU		Q1206	R1110			C845	L714	E573	L459	PRO	V219	GLY
			ASN		Q1206	R1110			C845	L714	E573	L459	PRO		
			GLN		A1215	E1114			D850	G718	I577	E462	PRO	F223	GLY
			PRO		L1219	V1123			D850	L719	I577	E462	PRO	H224	GLY
			ASP		L1219	V1123			T888	R728	I577	E462	PRO	E229	GLY
			ALA		L1219	V1123			R889	R728	I577	E462	PRO	C230	GLY
			ALA		L1219	V1123			R889	R728	I577	E462	PRO	L231	GLY
			THR		L1219	V1123			R889	R728	I577	E462	PRO	T232	GLY
			THR		L1219	V1123			R889	R728	I577	E462	PRO	V245	GLY
			GLU		L1219	V1123			R889	R728	I577	E462	PRO	Y246	GLY
			GLU		L1219	V1123			R889	R728	I577	E462	PRO	Y247	GLY
			ALA		L1219	V1123			R889	R728	I577	E462	PRO	E248	GLY
			ALA		L1219	V1123			R889	R728	I577	E462	PRO	G249	GLY
			ASN		L1219	V1123			R889	R728	I577	E462	PRO	Q250	GLY
			ASN		L1219	V1123			R889	R728	I577	E462	PRO	A251	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	Z252	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	C253	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	H255	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	R261	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	A261	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	Z266	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	I267	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	S268	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	W269	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	S270	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	G271	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	W276	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	A282	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	I293	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	T294	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	Q297	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	C305	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	K306	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	A307	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	H308	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	L182	GLY
			LEU		L1219	V1123			R889	R728	I577	E462	PRO	L189	GLY





- Molecule 1: Ryanodine receptor 1

Chain G:  57% 29% 14%

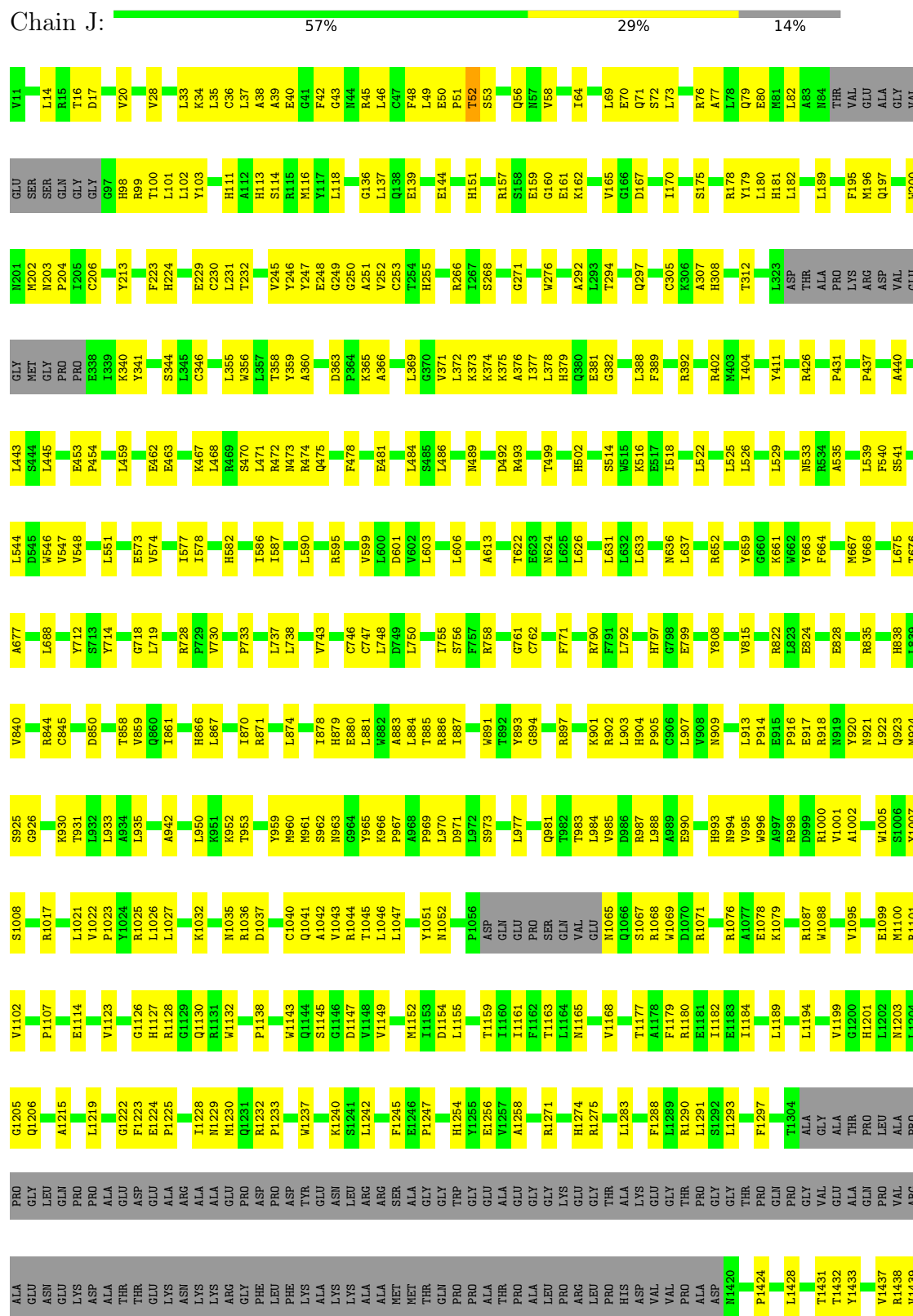
R835	M667	F540	P437	THR	W200	GLY	V11
R836	V668	S541	P438	ALA	R201	VAL	L14
R838	L675	L544	T438	PRD	N202	GLU	R15
R840	T676	D545	A440	LVS	N203	SER	T16
R844	A677	H546	A440	ARG	P204	SER	D17
R845	L688	V547	L443	ASP	T285	GLN	
R850		V548	S444	VAL	C206	GLY	V20
D850	D710		L445	GLU		GLY	
	L711	L551	L445	MET		G97	V28
T858	L712	E555	L459	GLY		H98	
R859	S713	E555		PRD	V219	R99	
R860	Y714	E573	E462	PRD	L220	T100	L33
	L718	V574	E463	E338	R221	L101	R34
L867	L719		L467	Y341	L222	L102	L35
			L468		F223	Y103	C36
R870	R728	I577	L468	C346	H224		L37
R871	P729	H582	S470	L355	E229	H111	A38
L874	V730	R730	L471	L356	C230	A112	A39
	L737	I586	N473	L357	L231	H113	E40
R878	L738	I587	R474	L358	T232	S114	G41
R879		L590	Q475	L359		M116	F42
E880	V743		F478	A360	V245	Y117	G43
L881	C746	R595	E481	D363	Y246	L118	R44
R883	C747	V599	G481	P364	E248		L46
L884	L748	L600	L484	L365	C249	G138	C47
R885	D749	D601	S485	A366	C250	Q138	F48
R886	L750	H602	L486	L369	A251	E139	L49
R887		L603		G370	V252	E161	P51
	I755	L606	N489	C371	C253	E144	T52
R891	S756			L371	T254	H151	S53
R892	F757	A613	D492	L372	R261	R157	Q66
R893	R758		R493	L373		E158	N57
R894			L375	L374	R286	E189	V58
	G761	T622	T499	L375	T287	G160	
R897	F771	L623	H502	A376	S288	K162	I64
				L377			F67
R901	R790	L626	S514	L378	C271	V165	T68
R902	F791	L631	H515	E381		G165	L69
L903	L792	L632	K516	G382	W276	D167	E70
P905		L633	E517	L388	A292	I170	Q71
G906	H797	L633	I518	L388	L293		S72
L907	C798			F389	T294		L73
R908	E799	N636	L522			S175	
R909		L637	L522	R392	Q297		R76
	Y808		L525			R178	L78
L913		R652	L526	L402	C305	Y179	L79
P914	V815			W403	C306	L180	E90
E915		Y859	L529	L404	A307	H181	R81
P916	R822	G660	N533	Y411	H308	L182	L82
E917	L823	R661	R534		T312		A83
R918	E824	W662	R534			L189	N84
R919		Y663	A535	R426			
	E828	F664	L529	R426			THR
R921				R426			VAL
							GLU
							ALA

Y2238	Y2142	P1932	L1863	Q1629	N1532	V1437	LEU	L1202	V1095	L922
Q2247	P2146	E1933	K1864	R1758	G1553	R1438	ALA	N1203	E1099	Q923
R2248	N2153	S1934	I1865	L1771	E1535	V1439	PRO	L1204	S1006	M924
F2251	K2154	V1935	I1866	R1772	F1539	F1440	PRO	G1205	M1100	S925
F2251	L2155	L1937	V1870	P1773	F1540	W1449	LEU	Q1206	R1101	G926
L2257	C2158	M1939	E1874	S1778	D1658	W1452	GLN	A1215	V1102	E927
L2265	I2162	E1944	GLU	F1782	T1666	M1462	PRO	L1219	P1107	K930
L2266	R2163	Y1945	GLU	F1782	L1667	N1463	ALA	L1021	R1110	T931
P2272	L2166	F1946	GLU	L1786	R1668	F1464	GLU	V1022	E1114	L932
L2273	L2166	C1947	GLU	P1787	L1669	D1465	ASP	P1023	E1114	L933
S2279	E2175	B1948	GLU	ALA	Y1670	L1466	GLU	R1025	Y1123	A934
V2280	E2175	Q1949	GLU	GLY	S1559	S1467	ALA	L1026	V1123	L935
I2281	I2179	Y1965	GLU	VAL	N1560	K1468	ARG	L1027	G1126	A942
D2282	I2182	R1965	GLU	ALA	V1561	V1469	ALA	K1032	H1127	L950
L2286	I2182	K1968	GLU	E1793	M1562	V1472	GLU	M1035	R1128	K951
V2299	N2186	Q1973	GLU	R1797	Q1569	M1476	PRO	R1036	M1230	K952
A2303	N2187	P2001	GLU	L1798	K1570	G1477	ASP	D1037	Q1129	T953
L2307	N2188	Q2005	ASP	I1802	M1571	V1483	GLU	S1038	Q1130	Y959
C2310	K2189	L2009	GLU	P1803	M1572	L1487	LEU	L1039	W1143	M960
M2312	V2190	L2005	GLU	L1804	P1574	C1492	ARG	C1040	Q1144	S962
P2311	F2191	L2009	GLU	R1808	S1576	M1493	ALA	R1044	S1145	S964
L2313	Q2193	F2012	GLU	D1809	A1577	M1494	SER	T1045	Y1149	Y965
Y2318	Q2193	K2013	GLU	K1810	A1578	V1495	ALA	L1046	P1247	K966
P2325	L2197	Q2095	ASP	M1814	R1584	G1498	GLY	L1047	M1152	A968
E2329	M2202	E2096	GLU	L1815	D1584	D1499	THR	Y1051	T1153	P969
F2334	L2215	L2097	GLU	E1816	L1713	F1500	THR	M1052	L1155	L970
L2335	L2215	H2100	GLU	E1817	L1714	V1501	GLU	L972	T1159	D971
R2336	G2216	M2101	GLU	D1821	I1716	S1502	ALA	P1056	T1160	S973
N2351	GLY	V2110	LYS	G1822	S1717	P1503	PRO	ASP	I1161	L977
V2352	GLY	E2115	ASP	E1822	L1718	G1504	ALA	GLN	F1162	Q981
V2353	THR	M2120	ALA	R1827	H1719	GLN	PRO	PRO	T1163	T982
V2354	LYS	F2121	GLU	D1828	E1721	GLY	GLY	SER	V1168	T983
R2355	GLU	S2122	LYS	P1829	R1725	R1508	THR	VAL	L1283	L984
L2356	L2123	L2044	GLU	V1830	S1726	D1513	ALA	GLU	T1177	Y985
L2357	GLU	Q2045	GLU	W1805	R1727	L1514	LYS	M1065	A1178	S986
I2358	G2132	GLU	GLU	L1613	M1730	L1515	GLU	Q1066	F1179	R987
R2359	L2134	GLU	GLU	L1613	L1731	I1516	GLY	S1067	R1180	L988
K2360	L2135	THR	ASP	E1616	S1732	E1519	PRO	R1068	E1181	A989
F2364	R2136	SER	GLY	T1617	E1733	L1519	ALA	W1069	I1182	E990
A2367	L2138	LEU	GLY	R1618	Y1734	L1522	ASP	D1070	E1183	H993
L2368	A2141	SER	LYS	A1620	L1738	A1523	THR	R1071	I1184	N994
			LYS	A1620	E1741	L1526	PRO	A1076	L1189	Y995
			GLU	E1857	I1745	M1527	GLY	E1078	L1194	Y996
			GLU	V1859	V1748	F1528	VAL	K1079	V1199	R998
			LYS	K1860	F1748	F1529	GLY	R1087	G1200	D999
			LYS	I1922	I1862	V1628	ALA	W1088	H1201	V1000
			LYS	L1926			THR			V1001
			LYS	L1927			PRO			A1002



E5007	M4879	P4761	L4652	L4569	GLU	ALA	VAL	ARG	N4124	L4013	T3812	A3775	K3679	Y3604
S5008	C4882	T4766	V4653	L4654	PRO	GLY	THR	ARG	F4125	L4014	T3812	A3775	Q3683	H3605
Y5009		W4767	F4655	Y4580	GLY	VAL	THR	VAL	E4127	E4015	D3921	M3778	E3686	L3606
N5012	R4892	I4771	C4657	K4581	GLU	VAL	GLU	ARG	F4128	L4016	L3923	L3783		E3607
Y5014	G4896	D4772	I4658	D4584	GLU	VAL	LEU	ARG	R4131	D4018	L3924	L3783	P3695	
Q5015	E4900	V4773	I4659	S4585	LYS	ALA	LEU	LEU	F4132	P4019	R3925	M3793		T3612
R5017	I4901	K4774	G4660	P4586	ALA	ASP	ALA	ARG	I4139	Q4020	S3929	V3794	H3699	LYS
C5018	E4902	P4667	Y4661	P4587	ASP	GLY	GLY	LEU	L4160	M4023	S3929	S3795	Q3700	SER
N5019	D4903	F4782	K4664	GLY	GLU	PRO	THR	ARG	L4160	M4023	S3929	S3795	L3701	LYS
S5037	P4904	I4783	V4666	ASP	ASN	PHE	PRO	ARG	F4163	T4040	K3934	K3799	V3702	LYS
	Y4909	D4786	L4668	ASP	GLY	GLY	GLY	GLU	A4167	M4044	K3935	L3800	H3704	ALA
	R4913	L4792	K4672	GLY	GLU	GLY	VAL	ALA	E4168	M4047	K3940	L3805	T3708	TRP
	F4922	L4796	E4674	ALA	VAL	GLY	ALA	ALA	E4172	M4054	K3940	E3811	L3710	LEU
	I4927	K4796	K4675	GLY	PRO	GLY	GLY	ALA	E4182	T4058	E3944	Q3814	Y3720	SER
	A4930	L4800	E4676	ASP	ALA	GLY	GLU	ALA	I4183	L4059	E3945	K3815	M3723	LYS
	I4936	L4801	PRO	GLY	ALA	GLY	PRO	LEU	R4188	K4060	Q3946	M3816	ARG	GLN
G4941	Q4946	H4803	ALA	ALA	PRO	ASP	GLY	TRP	F4061	F4062	K3948	L3820	A3724	ARG
E4942	Q4947		GLY	ASP	PRO	THR	PRO	VAL	E4191	D4063	R3949	F3828	D3727	ALA
L4943	Q4948		THR	THR	PRO	GLY	GLY	VAL	R4192	M4064	M3955	F3832	I3728	ALA
R4944	Q4949		LYS	PRO	LYS	THR	GLY	ALA	I4193	K4067	F3962	L3832	M3729	VAL
D4945	Q4950		ALA	ALA	ALA	ALA	ALA	ARG	N4201	V4072	N3963	L3835	K3731	ALA
Q4946	V4950		PRO	GLY	PRO	GLY	ASP	GLY	M4207	F4077	S3964	C3839	S3732	CYS
V4950	K4951		LYS	LYS	LYS	GLY	GLY	ALA	P4208	Q4078	L3966	F3846	C3733	PHE
E4952	C4956		LYS	LYS	LYS	GLY	GLY	ALA	Q4209	V4210	E3967	F3847	H3734	ARG
T4956	I4960		GLU	GLU	GLU	SER	GLY	ALA	K4211	V4080	I3969	F3847	ASN	GLY
I4960	C4961		GLU	GLU	GLU	PRO	GLY	ALA	R4215	R4085	T3874	K3873	GLY	L3641
H4983	H4984		ALA	ALA	ALA	ILE	GLY	ALA	F4219	T4088	Q3978	Y3874	ALA	R3648
L4985	L4985		GLY	LYS	GLY	LEU	ASP	ALA	V4222	D4092	S3979	D3877	GLU	K3652
M4989	M4989		GLY	GLY	GLY	ARG	ALA	ARG	E4227	F4093	L3980	F3877	S3752	K3658
L4992	M4993		ALA	ALA	ALA	LYS	GLY	LEU	K4230	Q4094	A3981	F3880	E3755	K3660
I4996	I4997		GLY	GLY	GLY	LEU	GLY	TRP	F4234	K4095	H3982	L3884	K3756	K3661
K4998	D4999		GLY	GLY	GLY	VAL	GLY	ASP	D4240	A4096	S3983	F3885	E3757	L3662
			GLY	GLY	GLY	ASP	ASP	SER	F4244	L4108	L3985	R3886	M3758	T3664
			GLY	GLY	GLY	GLY	GLY	LEU	D4240	Q4100	M3986	F3887	Q3761	H3667
			GLY	GLY	GLY	GLY	GLY	PHE	T4241	F4103	F3996	L3888		S3668
			GLY	GLY	GLY	GLY	VAL	GLY	I4242	T4104	A3997	Q3889	Y3765	F3669
			GLY	GLY	GLY	GLY	GLY	GLY	F4243	Q4105	H3998	L3891		E3670
			GLY	GLY	GLY	GLY	GLY	GLY	E4244	L4108	M3999	C3892	S3768	D3671
			GLY	GLY	GLY	GLY	VAL	VAL	M4245	Q4109	M4000	N3896	R3769	K3672
			GLY	GLY	GLY	GLY	ALA	GLY	Q4246	Q4109	M4001	N3896	L3770	K3673
			GLY	GLY	GLY	GLY	GLY	GLY	I4247	E4121	K4002	L3903	H3771	L3674
			GLY	GLY	GLY	GLY	PRO	ALA	I4251	M4122	L4003	L3903	T3772	D3675
			GLY	GLY	GLY	GLY	LYS	SER	S4252	L4123	Q4009	Q3906	G3774	D3676

● Molecule 1: Ryanodine receptor 1

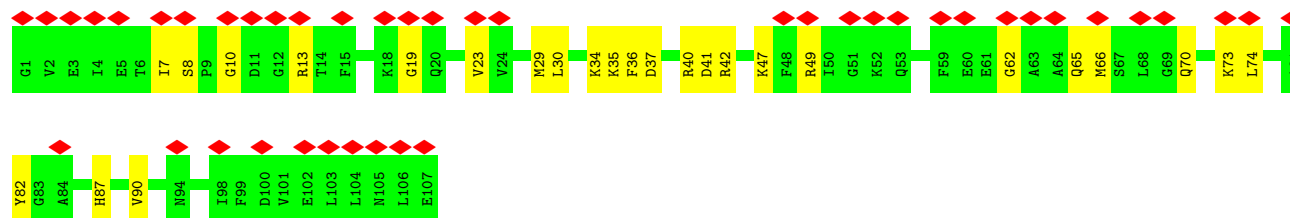
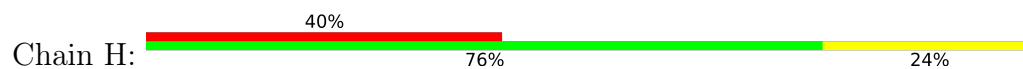


F2768	E2671	L2583	I2469	R2392	L2287	C2158	ARG	H1933	K1864	F1748	P1642	K1534	F1440
D2769	H2672	H2584	I2470	P2395	L2285	I2162	SER	S1934	M1865	P1749	P1643	E1535	W1449
I2771	L2674	T2585	L2474	P2396	L2263	R2163	LEU	V1935	I1866	R1758	E1643	F1539	W1452
K2677	L2678	R2588	L2479	VAL	P2272	L2166	GLU	L1937	V1870	L1771	D1658	F1540	
L2678		R2591	Q2487	ARG	L2273		THR	M1939	E1874	R1772	T1666	K1547	M1462
D2684	P2488	L2595	P2488	ASP	S2279	E2175	ARG	Y1945	GLU	P1773	L1667	P1550	N1463
K2688	K2489	L2596	K2489	ASP	V2280	F1946	LEU	F1946	GLU	S1778	R1668	P1550	F1464
K2689	M2490	K2597	M2490	ARG	I2281	C1947	VAL	C1947	GLU	T1557	L1669	D1465	L1466
K2690	S2491	L2598	S2491	ARG	D2282	D1948	LYS	D1948	GLU	F1782	R1671	H1558	S1467
Y2691	V2495	R2600	V2495	GLU	L2182	Q1949	LYS	Q1949	GLU	L1786	L1676	Q1553	K1468
E2694	P2496	D2601	P2496	HIS	L2286	R1964	GLU	R1964	GLU	P1787	L1676	N1560	V1472
L2695	D2497	V2602	D2497	PHE	E2292	M2186	GLU	Y1965	GLU	ALA	P1679	V1561	
L2696	H2498	L2603	H2498	GLY	E2292	K2189	LYS	R1965	GLU	ALA	M1679	I1562	M1476
L2697	K2499	E2604	K2499	GLU	V2299	V2190	PRO	K1968	GLU	GLY	H1683	Q1563	Q1477
L2791	A2500	D2605	A2500	PRO	F2191	F2191	GLU	K1968	GLU	VAL	Q1691	F1564	D1478
R2697	S2501		S2501	PRO	C2310	Y2192	GLU	Q1973	GLU	ALA	Q1691	Q1569	
M2698	M2502	M2608	M2502	GLU	P2311	Q2193	LEU	P2001	GLU	E1793	L1694	K1570	N1482
A2609	V2503	L2610	V2503	GLU	M2312	Q2193	PRO	Q2005	GLU	R1797	L1694	I1572	V1483
L2610	L2504	N2414	L2504	ALA	L2313	L2197	ALA	Q2005	ASP	L1798	L1698	M1573	L1487
F2505	F2505	L2418	F2505	GLU	Y2318	G2202	GLU	L2009	GLU	I1802	E1699	P1574	
R2615	V2509	A2421	V2509	GLU	P2325	M2203	GLU	L2009	GLU	I1802	R1708	L1575	C1492
S2617	Y2510	I2422	Y2510	GLU	H2204	H2204	GLU	F2012	GLU	P1803	A1577	Y1493	Y1493
M2618	Q2515	M2423	Q2515	GLU	E2329	T2206	GLU	K2013	LYS	I1804	G1710	A1577	V1495
L2619	L2519	Y2426	L2519	GLU	D2333	V2210	GLU	E2096	GLU	R1808	G1711	A1578	
L2623	L2522	L2429	L2522	THR	F2334	M2211	H2100	L2097	ASP	R1809	Y1712	R1584	G1498
R2625	F2526	D2430	F2526	GLY	R2336	L2214	H2101	H2101	GLU	K1810	D1713	D1499	D1499
V2627	L2627	D2431	L2627	THR	L2215	L2215	V2102	V2102	GLU	M1814	L1714	P1587	F1500
L2633	P2528	R2435	P2528	LYS	G2216	G2216	GLY	L2031	GLU	L1815	L1716	V1501	S1502
L2633	D2529	E2439	D2529	GLY	GLY	GLY	GLY	D2037	LYS	G1816	S1717	P1503	P1503
F2636	M2530	E2439	M2530	GLY	GLY	GLY	GLY	L2037	GLU	E1817	H1718	G1504	G1504
A2637	F2541	I2443	F2541	THR	L2356	L2356	L2123	L2044	ASP	R1820	H1719	M1599	GLN
P2640	M2546	K2447	M2546	GLU	L2357	L2223	Q2127	Q2045	GLY	D1821	L1720	L1600	GLN
L2641	L2641	G2448	L2641	GLU	L2357	L2223	Y2128	LEU	LYS	G1822	R1725	W1605	R1508
K2642	L2650	E2449	L2650	GLU	M2228	M2228	GLY	GLY	GLU	R1827	S1726	W1605	D1513
T2645	Y2653	A2450	Y2653	GLU	V2229	V2229	GLY	GLY	GLU	D1828	R1727	L1613	L1514
N2646	L2654	R2452	N2646	GLU	T2230	T2230	GLU	GLU	GLU		M1730	E1616	V1515
H2647	L2654	I2453	H2647	GLU	C2231	C2231	GLU	GLU	PRO	F1838	T1731	T1617	I1516
Y2648	L2658	R2454	Y2648	GLU	A2367	A2367	GLU	GLU	GLU	V1841	S1732	R1618	L1519
C2651	L2659	A2455	L2659	GLU	L2368	L2368	PRO	PRO	GLY	W1845	E1733	R1619	L1519
W2652	L2662	I2456	W2652	GLU	L2376	L2376	R2136	GLU	GLY	W1845	Y1734	A1620	L1522
K2653	T2663	R2458	K2653	GLU	Y2238	Y2238	A2137	GLU	LYS	I1853	L1738	R1623	A1523
Y2654	R2575	D2464	Y2654	GLU	E2381	E2381	L2138	THR	ASP		T1739	L1624	L1526
W2661	R2578	D2465	W2661	GLU	T2384	T2384	A2141	SER	L1922	E1857	P1740	G1625	M1527
T2667	W2674	L2466	T2667	GLU	R2385	R2385	Y2142	LEU	L1926	W1859	T1742	W1626	F1529
K2765	K2765	G2468	K2765	ARG	D2389	D2389	P2146	SER	L1927	K1860	R1743	V1623	T1530
							M2153	ARG	P1932	Q1861	I1745	Q1629	A1531
										I1862	A1744	N1532	N1532
										L1863		L1639	G1533

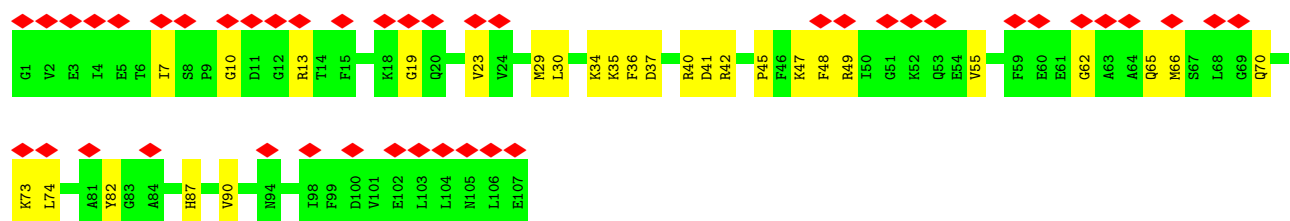
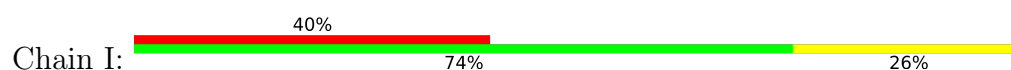




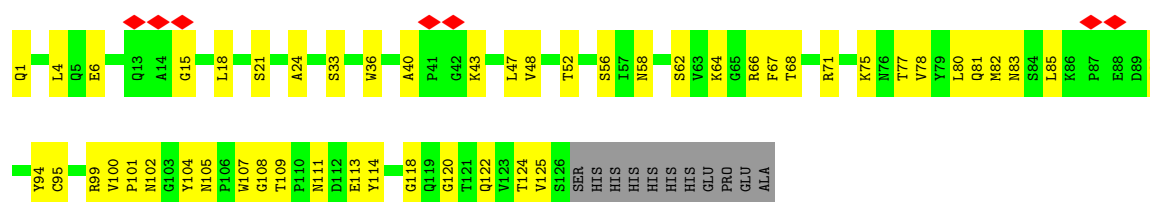
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B



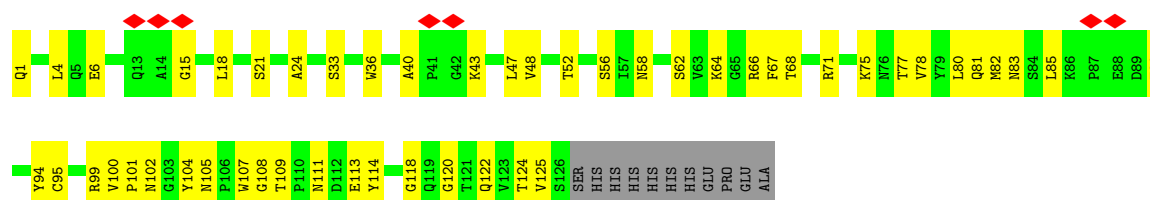
• Molecule 2: Peptidyl-prolyl cis-trans isomerase FKBP1B



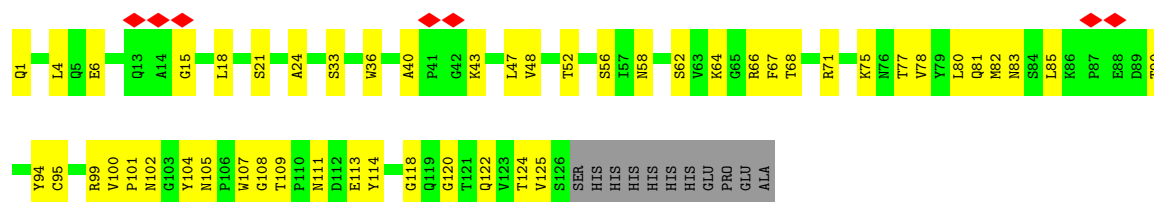
• Molecule 3: Nanobody 9657



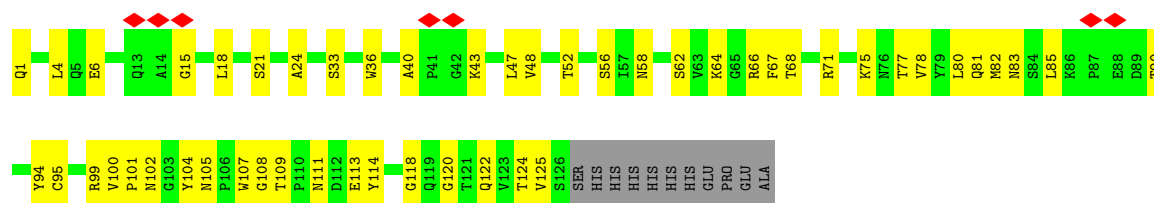
• Molecule 3: Nanobody 9657



Chain K: 5% 55% 36% 8%



Chain M: 5% 55% 36% 8%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	29246	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	JEOL CRYO ARM 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	60	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	4.150	Depositor
Minimum map value	-0.183	Depositor
Average map value	0.061	Depositor
Map value standard deviation	0.123	Depositor
Recommended contour level	0.28	Depositor
Map size ($\text{\AA}$)	500.64, 500.64, 500.64	wwPDB
Map dimensions	336, 336, 336	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.49, 1.49, 1.49	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, CFF, CA, ATP

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	B	0.13	0/34879	0.34	2/47278 (0.0%)
1	E	0.13	0/34879	0.34	2/47278 (0.0%)
1	G	0.13	0/34879	0.34	2/47278 (0.0%)
1	J	0.13	0/34879	0.34	1/47278 (0.0%)
2	A	0.11	0/834	0.34	0/1123
2	D	0.11	0/834	0.34	0/1123
2	H	0.11	0/834	0.34	0/1123
2	I	0.11	0/834	0.34	0/1123
3	C	0.17	0/987	0.44	0/1340
3	F	0.17	0/987	0.44	0/1340
3	K	0.17	0/987	0.44	0/1340
3	M	0.17	0/987	0.44	0/1340
All	All	0.13	0/146800	0.34	7/198964 (0.0%)

There are no bond length outliers.

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1503	PRO	N-CA-CB	6.12	110.06	103.33
1	E	1503	PRO	N-CA-CB	6.12	110.06	103.33
1	G	1503	PRO	N-CA-CB	6.12	110.06	103.33
1	J	1503	PRO	N-CA-CB	6.12	110.06	103.33
1	G	2635	GLU	CB-CA-C	-5.37	109.92	117.23
1	B	2635	GLU	CB-CA-C	-5.34	109.96	117.23
1	E	2635	GLU	CB-CA-C	-5.32	110.00	117.23

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	34104	0	33492	1093	0
1	E	34104	0	33492	1083	0
1	G	34104	0	33492	1087	0
1	J	34104	0	33492	1080	0
2	A	818	0	824	20	0
2	D	818	0	824	22	0
2	H	818	0	824	22	0
2	I	818	0	824	21	0
3	C	967	0	916	45	0
3	F	967	0	916	47	0
3	K	967	0	916	46	0
3	M	967	0	916	47	0
4	B	1	0	0	0	0
4	E	1	0	0	0	0
4	G	1	0	0	0	0
4	J	1	0	0	0	0
5	B	31	0	12	1	0
5	E	31	0	12	1	0
5	G	31	0	12	1	0
5	J	31	0	12	1	0
6	B	14	0	10	1	0
6	E	14	0	10	1	0
6	G	14	0	10	4	0
6	J	14	0	10	1	0
7	B	1	0	0	0	0
7	E	1	0	0	0	0
7	G	1	0	0	0	0
7	J	1	0	0	0	0
All	All	143744	0	141016	4498	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 16.

All (4498) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2911:LEU:HD13	1:E:2915:GLU:HG3	1.53	0.90
1:G:3197:LEU:O	1:G:3201:MET:HB2	1.71	0.90
1:J:3197:LEU:O	1:J:3201:MET:HB2	1.71	0.90
1:J:2911:LEU:HD13	1:J:2915:GLU:HG3	1.53	0.90
1:G:2911:LEU:HD13	1:G:2915:GLU:HG3	1.53	0.90
1:B:2911:LEU:HD13	1:B:2915:GLU:HG3	1.53	0.89
1:B:3967:GLU:HA	1:B:3970:GLN:HG2	1.55	0.89
1:E:3197:LEU:O	1:E:3201:MET:HB2	1.71	0.89
1:E:3967:GLU:HA	1:E:3970:GLN:HG2	1.54	0.88
1:B:3197:LEU:O	1:B:3201:MET:HB2	1.71	0.88
1:J:3967:GLU:HA	1:J:3970:GLN:HG2	1.55	0.88
1:G:4961:CYS:SG	1:G:4983:HIS:CE1	2.67	0.88
1:E:4961:CYS:SG	1:E:4983:HIS:CE1	2.67	0.86
1:G:730:VAL:HA	1:G:1476:MET:HE1	1.57	0.86
1:B:4961:CYS:SG	1:B:4983:HIS:CE1	2.67	0.86
1:G:3967:GLU:HA	1:G:3970:GLN:HG2	1.57	0.85
1:B:924:MET:HE2	3:C:107:TRP:HB2	1.58	0.85
1:J:924:MET:HE2	3:K:107:TRP:HB2	1.58	0.85
1:E:730:VAL:HA	1:E:1476:MET:HE1	1.57	0.85
1:J:3648:ARG:HG2	1:J:3652:MET:HE1	1.59	0.84
1:G:3648:ARG:HG2	1:G:3652:MET:HE1	1.60	0.84
1:J:730:VAL:HA	1:J:1476:MET:HE1	1.57	0.84
1:B:730:VAL:HA	1:B:1476:MET:HE1	1.57	0.84
1:E:3889:GLN:HB2	1:E:3967:GLU:HG3	1.59	0.84
1:G:1947:CYS:SG	1:G:2127:GLN:NE2	2.51	0.84
1:E:1947:CYS:SG	1:E:2127:GLN:NE2	2.51	0.84
1:E:3648:ARG:HG2	1:E:3652:MET:HE1	1.59	0.84
1:J:1947:CYS:SG	1:J:2127:GLN:NE2	2.51	0.83
1:B:3889:GLN:HB2	1:B:3967:GLU:HG3	1.59	0.83
1:B:1947:CYS:SG	1:B:2127:GLN:NE2	2.51	0.82
1:B:3648:ARG:HG2	1:B:3652:MET:HE1	1.59	0.82
1:G:2793:PRO:HA	1:G:2855:TYR:HB2	1.62	0.82
1:J:3889:GLN:HB2	1:J:3967:GLU:HG3	1.59	0.82
1:G:3889:GLN:HB2	1:G:3967:GLU:HG3	1.61	0.81
1:E:2175:GLU:HG3	1:E:2228:MET:HE3	1.64	0.80
1:G:4999:ASP:HB2	1:G:5002:GLU:HG2	1.61	0.80
1:B:2175:GLU:HG3	1:B:2228:MET:HE3	1.64	0.80
1:J:2793:PRO:HA	1:J:2855:TYR:HB2	1.62	0.80
1:E:2793:PRO:HA	1:E:2855:TYR:HB2	1.62	0.80
1:G:3670:GLU:HB2	1:G:3728:ILE:HG23	1.63	0.80
1:B:3315:LEU:HD22	1:B:3345:ILE:HG12	1.64	0.80
1:B:2793:PRO:HA	1:B:2855:TYR:HB2	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3670:GLU:HB2	1:J:3728:ILE:HG23	1.63	0.80
1:J:2175:GLU:HG3	1:J:2228:MET:HE3	1.64	0.79
1:B:3670:GLU:HB2	1:B:3728:ILE:HG23	1.63	0.79
1:G:2175:GLU:HG3	1:G:2228:MET:HE3	1.64	0.79
3:K:4:LEU:HD21	3:K:95:CYS:HB3	1.65	0.79
1:E:924:MET:HE2	3:F:107:TRP:HB2	1.65	0.79
1:G:924:MET:HE2	3:M:107:TRP:HB2	1.65	0.79
1:J:3315:LEU:HD22	1:J:3345:ILE:HG12	1.64	0.78
1:E:3670:GLU:HB2	1:E:3728:ILE:HG23	1.63	0.78
1:E:2755:ILE:HD12	1:E:2813:LEU:HG	1.66	0.78
1:B:3054:VAL:HG11	1:B:3131:TYR:HB2	1.65	0.78
3:C:66:ARG:HD2	3:C:83:ASN:HB2	1.66	0.78
1:E:3054:VAL:HG11	1:E:3131:TYR:HB2	1.65	0.78
3:F:66:ARG:HD2	3:F:83:ASN:HB2	1.66	0.78
1:J:3266:MET:HE3	1:J:3268:HIS:HB3	1.66	0.78
1:G:3315:LEU:HD22	1:G:3345:ILE:HG12	1.64	0.78
3:M:4:LEU:HD21	3:M:95:CYS:HB3	1.65	0.78
1:J:2755:ILE:HD12	1:J:2813:LEU:HG	1.66	0.78
3:C:4:LEU:HD21	3:C:95:CYS:HB3	1.65	0.78
3:K:66:ARG:HD2	3:K:83:ASN:HB2	1.66	0.78
1:E:3315:LEU:HD22	1:E:3345:ILE:HG12	1.64	0.77
1:G:3266:MET:HE3	1:G:3268:HIS:HB3	1.66	0.77
1:E:633:LEU:HB3	1:E:1639:LEU:HD11	1.66	0.77
1:J:2595:LEU:HB2	1:J:2600:ARG:HE	1.50	0.77
1:J:3054:VAL:HG11	1:J:3131:TYR:HB2	1.65	0.77
3:M:66:ARG:HD2	3:M:83:ASN:HB2	1.66	0.77
1:B:2595:LEU:HB2	1:B:2600:ARG:HE	1.50	0.77
1:B:2867:LEU:HG	1:B:2868:SER:H	1.50	0.77
3:F:4:LEU:HD21	3:F:95:CYS:HB3	1.65	0.77
1:G:633:LEU:HB3	1:G:1639:LEU:HD11	1.66	0.77
1:B:633:LEU:HB3	1:B:1639:LEU:HD11	1.66	0.77
1:G:2755:ILE:HD12	1:G:2813:LEU:HG	1.65	0.77
1:E:2867:LEU:HG	1:E:2868:SER:H	1.50	0.76
1:E:2882:TYR:HB3	1:E:2886:TRP:HZ3	1.51	0.76
1:B:2755:ILE:HD12	1:B:2813:LEU:HG	1.65	0.76
1:E:2595:LEU:HB2	1:E:2600:ARG:HE	1.50	0.76
1:G:3054:VAL:HG11	1:G:3131:TYR:HB2	1.65	0.76
1:B:3266:MET:HE3	1:B:3268:HIS:HB3	1.66	0.76
1:G:2595:LEU:HB2	1:G:2600:ARG:HE	1.50	0.76
1:J:633:LEU:HB3	1:J:1639:LEU:HD11	1.66	0.76
1:B:1152:MET:HB2	1:B:1161:ILE:O	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2882:TYR:HB3	1:J:2886:TRP:HZ3	1.51	0.76
1:B:2882:TYR:HB3	1:B:2886:TRP:HZ3	1.51	0.76
1:E:3266:MET:HE3	1:E:3268:HIS:HB3	1.66	0.76
1:G:2975:ALA:HA	1:G:3053:ARG:HH12	1.52	0.76
1:G:1152:MET:HB2	1:G:1161:ILE:O	1.86	0.75
1:E:3021:PRO:HD3	1:E:3036:LYS:HZ3	1.51	0.75
1:E:1152:MET:HB2	1:E:1161:ILE:O	1.86	0.75
1:E:2975:ALA:HA	1:E:3053:ARG:HH12	1.52	0.75
1:G:2882:TYR:HB3	1:G:2886:TRP:HZ3	1.51	0.75
1:J:2975:ALA:HA	1:J:3053:ARG:HH12	1.52	0.75
1:J:1152:MET:HB2	1:J:1161:ILE:O	1.86	0.75
1:J:2867:LEU:HG	1:J:2868:SER:H	1.50	0.75
1:B:2975:ALA:HA	1:B:3053:ARG:HH12	1.52	0.74
1:G:2867:LEU:HG	1:G:2868:SER:H	1.50	0.74
1:G:3986:TRP:HB3	1:G:4047:MET:HE3	1.70	0.74
1:B:3464:ILE:HA	1:B:3467:MET:HE3	1.70	0.74
1:E:371:VAL:HG12	1:E:373:LYS:H	1.53	0.74
3:F:105:ASN:ND2	3:F:111:ASN:HB2	2.03	0.74
3:K:105:ASN:ND2	3:K:111:ASN:HB2	2.03	0.74
1:J:3464:ILE:HA	1:J:3467:MET:HE3	1.70	0.74
3:M:105:ASN:ND2	3:M:111:ASN:HB2	2.03	0.74
1:G:3842:LEU:HB2	1:G:3929:SER:HB2	1.70	0.74
1:B:3842:LEU:HB2	1:B:3929:SER:HB2	1.70	0.74
1:G:144:GLU:HG3	1:G:175:SER:HB2	1.70	0.74
1:G:3464:ILE:HA	1:G:3467:MET:HE3	1.70	0.73
1:J:3842:LEU:HB2	1:J:3929:SER:HB2	1.70	0.73
2:H:23:VAL:HG12	2:H:47:LYS:HG2	1.70	0.73
1:B:835:ARG:HH21	1:B:1203:ASN:HD22	1.36	0.73
1:J:223:PHE:HA	1:J:230:CYS:HA	1.70	0.73
1:B:622:THR:HA	1:B:626:LEU:HD13	1.70	0.73
1:E:3842:LEU:HB2	1:E:3929:SER:HB2	1.70	0.73
2:I:23:VAL:HG12	2:I:47:LYS:HG2	1.70	0.73
1:E:3464:ILE:HA	1:E:3467:MET:HE3	1.70	0.73
1:E:3986:TRP:HB3	1:E:4047:MET:HE3	1.70	0.73
3:C:105:ASN:ND2	3:C:111:ASN:HB2	2.02	0.73
1:E:622:THR:HA	1:E:626:LEU:HD13	1.70	0.73
1:E:835:ARG:HH21	1:E:1203:ASN:HD22	1.36	0.73
1:J:3986:TRP:HB3	1:J:4047:MET:HE3	1.70	0.73
2:D:23:VAL:HG12	2:D:47:LYS:HG2	1.70	0.73
3:C:68:THR:HB	3:C:81:GLN:HB3	1.71	0.73
1:G:247:TYR:HB2	1:G:374:LYS:HB2	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:144:GLU:HG3	1:J:175:SER:HB2	1.70	0.73
1:J:973:SER:HA	1:J:1044:ARG:HH21	1.54	0.73
1:J:835:ARG:HH21	1:J:1203:ASN:HD22	1.37	0.73
1:E:3569:LEU:HD12	1:E:3573:MET:HE1	1.70	0.72
1:G:835:ARG:HH21	1:G:1203:ASN:HD22	1.36	0.72
1:B:223:PHE:HA	1:B:230:CYS:HA	1.70	0.72
2:D:13:ARG:NH1	2:D:13:ARG:O	2.22	0.72
3:K:68:THR:HB	3:K:81:GLN:HB3	1.71	0.72
1:B:144:GLU:HG3	1:B:175:SER:HB2	1.70	0.72
1:B:990:GLU:OE2	1:B:994:ASN:ND2	2.23	0.72
1:B:3986:TRP:HB3	1:B:4047:MET:HE3	1.70	0.72
1:G:3569:LEU:HD12	1:G:3573:MET:HE1	1.71	0.72
1:G:990:GLU:OE2	1:G:994:ASN:ND2	2.23	0.72
1:G:3730:ALA:O	1:G:3734:HIS:ND1	2.22	0.72
1:G:1927:LEU:HD23	1:G:1939:MET:HE2	1.72	0.72
1:G:2496:PRO:HG3	1:G:2550:LEU:HD23	1.72	0.72
1:J:1927:LEU:HD23	1:J:1939:MET:HE2	1.72	0.72
3:F:68:THR:HB	3:F:81:GLN:HB3	1.71	0.72
1:E:3730:ALA:O	1:E:3734:HIS:ND1	2.22	0.72
1:J:3569:LEU:HD12	1:J:3573:MET:HE1	1.70	0.72
1:J:3730:ALA:O	1:J:3734:HIS:ND1	2.23	0.72
2:A:23:VAL:HG12	2:A:47:LYS:HG2	1.70	0.72
1:E:223:PHE:HA	1:E:230:CYS:HA	1.70	0.72
1:E:973:SER:HA	1:E:1044:ARG:HH21	1.54	0.72
1:G:248:GLU:HB2	1:G:373:LYS:HD3	1.71	0.72
1:J:799:GLU:HB2	1:J:1623:ARG:HH12	1.55	0.72
2:H:13:ARG:O	2:H:13:ARG:NH1	2.22	0.72
1:B:3730:ALA:O	1:B:3734:HIS:ND1	2.23	0.72
1:G:223:PHE:HA	1:G:230:CYS:HA	1.70	0.72
1:B:1927:LEU:HD23	1:B:1939:MET:HE2	1.72	0.71
1:E:859:VAL:HA	1:E:930:LYS:HD3	1.72	0.71
1:G:622:THR:HA	1:G:626:LEU:HD13	1.70	0.71
1:G:4651:THR:HG1	1:G:4803:HIS:HE2	1.37	0.71
1:J:990:GLU:OE2	1:J:994:ASN:ND2	2.23	0.71
1:B:973:SER:HA	1:B:1044:ARG:HH21	1.54	0.71
1:B:3569:LEU:HD12	1:B:3573:MET:HE1	1.71	0.71
1:E:4651:THR:HG1	1:E:4803:HIS:HE2	1.37	0.71
1:G:1616:GLU:HG3	1:G:1629:GLN:HG3	1.72	0.71
1:B:1616:GLU:HG3	1:B:1629:GLN:HG3	1.72	0.71
1:B:2496:PRO:HG3	1:B:2550:LEU:HD23	1.72	0.71
1:B:3021:PRO:HD3	1:B:3036:LYS:HZ3	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4902:GLU:O	1:B:4913:ARG:NH2	2.23	0.71
1:E:4902:GLU:O	1:E:4913:ARG:NH2	2.23	0.71
1:E:1927:LEU:HD23	1:E:1939:MET:HE2	1.72	0.71
1:J:38:ALA:HB1	1:J:64:ILE:HG13	1.73	0.71
1:J:4651:THR:HG1	1:J:4803:HIS:HE2	1.37	0.71
3:M:68:THR:HB	3:M:81:GLN:HB3	1.71	0.71
1:J:622:THR:HA	1:J:626:LEU:HD13	1.70	0.71
1:J:2496:PRO:HG3	1:J:2550:LEU:HD23	1.72	0.71
1:B:38:ALA:HB1	1:B:64:ILE:HG13	1.73	0.71
1:G:371:VAL:HG12	1:G:373:LYS:H	1.56	0.71
1:G:3021:PRO:HD3	1:G:3036:LYS:HZ3	1.55	0.71
1:E:144:GLU:HG3	1:E:175:SER:HB2	1.70	0.71
1:J:2874:MET:HE1	1:J:2939:ARG:HG3	1.73	0.71
1:J:4902:GLU:O	1:J:4913:ARG:NH2	2.23	0.71
1:B:799:GLU:HB2	1:B:1623:ARG:HH12	1.55	0.70
1:E:248:GLU:HB2	1:E:373:LYS:HD3	1.72	0.70
1:G:38:ALA:HB1	1:G:64:ILE:HG13	1.73	0.70
1:B:3081:MET:HG3	1:B:3156:VAL:HA	1.74	0.70
1:E:990:GLU:OE2	1:E:994:ASN:ND2	2.23	0.70
1:J:247:TYR:HB2	1:J:374:LYS:HD2	1.73	0.70
1:E:38:ALA:HB1	1:E:64:ILE:HG13	1.73	0.70
1:G:799:GLU:HB2	1:G:1623:ARG:HH12	1.55	0.70
1:G:859:VAL:HA	1:G:930:LYS:HD3	1.72	0.70
1:B:859:VAL:HA	1:B:930:LYS:HD3	1.72	0.70
1:G:3081:MET:HG3	1:G:3156:VAL:HA	1.74	0.70
1:E:1616:GLU:HG3	1:E:1629:GLN:HG3	1.72	0.70
1:E:2496:PRO:HG3	1:E:2550:LEU:HD23	1.72	0.70
1:G:973:SER:HA	1:G:1044:ARG:HH21	1.54	0.70
1:B:247:TYR:HB2	1:B:374:LYS:HD2	1.73	0.70
1:E:953:THR:HB	1:E:969:PRO:HG2	1.73	0.70
1:J:1256:GLU:HB2	1:J:1275:ARG:HE	1.57	0.70
1:E:1256:GLU:HB2	1:E:1275:ARG:HE	1.57	0.70
1:E:2874:MET:HE1	1:E:2939:ARG:HG3	1.73	0.70
1:B:2874:MET:HE1	1:B:2939:ARG:HG3	1.73	0.70
1:E:3081:MET:HG3	1:E:3156:VAL:HA	1.74	0.70
1:G:953:THR:HB	1:G:969:PRO:HG2	1.73	0.70
1:G:1256:GLU:HB2	1:G:1275:ARG:HE	1.57	0.70
2:A:13:ARG:NH1	2:A:13:ARG:O	2.22	0.70
1:E:4127:GLU:OE1	1:E:4131:ARG:NH2	2.25	0.70
1:E:4865:LYS:NZ	1:E:4900:GLU:O	2.25	0.70
1:G:4902:GLU:O	1:G:4913:ARG:NH2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4127:GLU:OE1	1:J:4131:ARG:NH2	2.25	0.69
1:J:859:VAL:HA	1:J:930:LYS:HD3	1.72	0.69
1:J:1616:GLU:HG3	1:J:1629:GLN:HG3	1.72	0.69
1:J:3081:MET:HG3	1:J:3156:VAL:HA	1.74	0.69
1:B:4865:LYS:NZ	1:B:4900:GLU:O	2.25	0.69
1:E:2970:SER:HA	1:E:2973:PHE:CE2	2.28	0.69
1:E:2865:VAL:HG23	1:E:2928:LYS:HE3	1.75	0.69
1:G:3147:ILE:HG23	1:G:3152:PHE:HB2	1.75	0.69
1:J:886:ARG:HB3	1:J:891:TRP:HB3	1.75	0.69
1:J:2865:VAL:HG23	1:J:2928:LYS:HE3	1.75	0.69
1:J:953:THR:HB	1:J:969:PRO:HG2	1.73	0.69
1:J:2970:SER:HA	1:J:2973:PHE:CE2	2.28	0.69
1:B:371:VAL:HG12	1:B:373:LYS:H	1.57	0.69
1:B:886:ARG:HB3	1:B:891:TRP:HB3	1.75	0.69
1:B:3147:ILE:HG23	1:B:3152:PHE:HB2	1.75	0.69
1:E:799:GLU:HB2	1:E:1623:ARG:HH12	1.55	0.69
1:G:2865:VAL:HG23	1:G:2928:LYS:HE3	1.75	0.69
1:G:2874:MET:HE1	1:G:2939:ARG:HG3	1.73	0.69
1:B:953:THR:HB	1:B:969:PRO:HG2	1.73	0.69
1:B:1870:VAL:HG11	1:B:2097:LEU:HD22	1.75	0.69
1:E:886:ARG:HB3	1:E:891:TRP:HB3	1.75	0.69
1:G:1870:VAL:HG11	1:G:2097:LEU:HD22	1.75	0.69
1:G:2519:LEU:HA	1:G:2522:LEU:HD12	1.74	0.69
1:J:372:LEU:O	1:J:374:LYS:HG3	1.93	0.69
1:J:4865:LYS:NZ	1:J:4900:GLU:O	2.25	0.69
1:B:950:LEU:HD13	1:B:970:LEU:HD21	1.75	0.69
1:B:1256:GLU:HB2	1:B:1275:ARG:HE	1.57	0.69
1:B:4127:GLU:OE1	1:B:4131:ARG:NH2	2.25	0.69
1:J:2616:PRO:HA	1:J:2619:LEU:HB3	1.75	0.69
1:B:2519:LEU:HA	1:B:2522:LEU:HD12	1.74	0.69
1:B:2865:VAL:HG23	1:B:2928:LYS:HE3	1.75	0.69
1:G:223:PHE:HB2	1:G:389:PHE:HB3	1.75	0.69
1:G:886:ARG:HB3	1:G:891:TRP:HB3	1.75	0.69
1:G:2970:SER:HA	1:G:2973:PHE:CE2	2.27	0.69
1:G:4127:GLU:OE1	1:G:4131:ARG:NH2	2.25	0.69
2:I:13:ARG:O	2:I:13:ARG:NH1	2.22	0.69
1:B:2616:PRO:HA	1:B:2619:LEU:HB3	1.75	0.68
1:B:2970:SER:HA	1:B:2973:PHE:CE2	2.28	0.68
1:G:4865:LYS:NZ	1:G:4900:GLU:O	2.25	0.68
1:B:223:PHE:HB2	1:B:389:PHE:HB3	1.75	0.68
1:E:1671:ARG:HH21	1:E:1710:GLY:HA2	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2913:ALA:O	1:B:2917:ALA:N	2.24	0.68
1:J:1870:VAL:HG11	1:J:2097:LEU:HD22	1.75	0.68
1:J:3147:ILE:HG23	1:J:3152:PHE:HB2	1.75	0.68
1:B:248:GLU:HB2	1:B:373:LYS:HD3	1.75	0.68
1:E:180:LEU:O	1:E:200:TRP:NE1	2.24	0.68
1:E:3147:ILE:HG23	1:E:3152:PHE:HB2	1.75	0.68
1:G:950:LEU:HD13	1:G:970:LEU:HD21	1.75	0.68
1:B:1671:ARG:HH21	1:B:1710:GLY:HA2	1.59	0.68
1:G:2616:PRO:HA	1:G:2619:LEU:HB3	1.75	0.68
1:E:223:PHE:HB2	1:E:389:PHE:HB3	1.75	0.68
1:J:248:GLU:HB2	1:J:373:LYS:HD3	1.75	0.68
1:B:372:LEU:O	1:B:374:LYS:HG3	1.93	0.68
1:G:1671:ARG:HH21	1:G:1710:GLY:HA2	1.59	0.68
1:J:371:VAL:HG12	1:J:373:LYS:H	1.57	0.68
1:E:1870:VAL:HG11	1:E:2097:LEU:HD22	1.75	0.68
1:G:2913:ALA:O	1:G:2917:ALA:N	2.24	0.68
1:J:223:PHE:HB2	1:J:389:PHE:HB3	1.75	0.68
1:G:1730:MET:HE3	1:G:1773:PRO:HD2	1.76	0.68
1:J:180:LEU:O	1:J:200:TRP:NE1	2.24	0.68
1:J:247:TYR:HB2	1:J:374:LYS:HB2	1.76	0.68
1:B:1008:SER:HB2	1:B:1017:ARG:HE	1.59	0.67
1:E:2519:LEU:HA	1:E:2522:LEU:HD12	1.74	0.67
1:E:2616:PRO:HA	1:E:2619:LEU:HB3	1.75	0.67
1:J:1671:ARG:HH21	1:J:1710:GLY:HA2	1.59	0.67
1:B:195:PHE:HE2	1:G:2359:ARG:HA	1.59	0.67
1:J:1008:SER:HB2	1:J:1017:ARG:HE	1.59	0.67
1:J:1730:MET:HE3	1:J:1773:PRO:HD2	1.76	0.67
1:J:2519:LEU:HA	1:J:2522:LEU:HD12	1.74	0.67
1:J:3965:LEU:HA	1:J:3968:TYR:CD2	2.30	0.67
1:B:1730:MET:HE3	1:B:1773:PRO:HD2	1.76	0.67
1:B:3224:PRO:HA	1:B:3227:ARG:HD2	1.77	0.67
1:J:950:LEU:HD13	1:J:970:LEU:HD21	1.75	0.67
1:B:3965:LEU:HA	1:B:3968:TYR:CD2	2.30	0.67
1:E:2913:ALA:O	1:E:2917:ALA:N	2.24	0.67
1:G:3224:PRO:HA	1:G:3227:ARG:HD2	1.77	0.67
1:E:1008:SER:HB2	1:E:1017:ARG:HE	1.59	0.67
1:E:797:HIS:CE1	1:E:1626:TRP:HD1	2.12	0.67
1:E:3224:PRO:HA	1:E:3227:ARG:HD2	1.77	0.67
1:G:1008:SER:HB2	1:G:1017:ARG:HE	1.59	0.67
1:J:3224:PRO:HA	1:J:3227:ARG:HD2	1.77	0.67
1:B:636:ASN:HD22	2:A:35:LYS:HE3	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2359:ARG:HA	1:E:195:PHE:HE2	1.60	0.67
1:E:950:LEU:HD13	1:E:970:LEU:HD21	1.75	0.67
1:E:3100:SER:HB3	1:E:3167:ARG:HD3	1.76	0.67
1:G:636:ASN:HD22	2:H:35:LYS:HE3	1.60	0.67
1:E:372:LEU:O	1:E:374:LYS:HG3	1.95	0.67
1:E:1730:MET:HE3	1:E:1773:PRO:HD2	1.76	0.67
1:J:636:ASN:HD22	2:I:35:LYS:HE3	1.60	0.67
1:E:2359:ARG:HA	1:J:195:PHE:HE2	1.59	0.66
1:G:3100:SER:HB3	1:G:3167:ARG:HD3	1.76	0.66
1:G:3965:LEU:HA	1:G:3968:TYR:CD2	2.31	0.66
1:J:1230:MET:HE3	1:J:1827:ARG:HH21	1.60	0.66
1:B:247:TYR:HB2	1:B:374:LYS:HB2	1.76	0.66
1:B:797:HIS:CE1	1:B:1626:TRP:HD1	2.12	0.66
1:J:797:HIS:CE1	1:J:1626:TRP:HD1	2.13	0.66
1:E:3965:LEU:HA	1:E:3968:TYR:CD2	2.30	0.66
1:G:3886:ARG:HD2	1:G:3889:GLN:HE21	1.60	0.66
1:B:1179:PHE:HB2	1:B:1182:ILE:HD11	1.78	0.66
1:E:247:TYR:HB2	1:E:374:LYS:HB2	1.76	0.66
1:E:636:ASN:HD22	2:D:35:LYS:HE3	1.61	0.66
1:E:1230:MET:HE3	1:E:1827:ARG:HH21	1.60	0.66
1:E:2902:HIS:CE1	1:E:2904:LEU:HB2	2.31	0.66
1:B:3695:PRO:HG2	1:B:3700:GLN:HG2	1.78	0.66
1:E:3695:PRO:HG2	1:E:3700:GLN:HG2	1.78	0.66
1:G:178:ARG:HA	1:G:195:PHE:HD1	1.61	0.66
1:G:797:HIS:CE1	1:G:1626:TRP:HD1	2.13	0.66
1:G:2902:HIS:CE1	1:G:2904:LEU:HB2	2.31	0.66
1:J:3021:PRO:HD3	1:J:3036:LYS:HZ3	1.58	0.66
1:J:3695:PRO:HG2	1:J:3700:GLN:HG2	1.78	0.66
1:G:180:LEU:O	1:G:200:TRP:NE1	2.24	0.66
1:G:195:PHE:HE2	1:J:2359:ARG:HA	1.59	0.66
1:G:3695:PRO:HG2	1:G:3700:GLN:HG2	1.78	0.66
1:G:4242:ILE:HG21	6:G:5103:CFF:H81	1.77	0.66
1:B:1230:MET:HE3	1:B:1827:ARG:HH21	1.60	0.66
1:E:103:TYR:HB2	1:E:159:GLU:HA	1.78	0.66
1:G:1179:PHE:HB2	1:G:1182:ILE:HD11	1.78	0.66
1:G:1230:MET:HE3	1:G:1827:ARG:HH21	1.60	0.66
1:J:3100:SER:HB3	1:J:3167:ARG:HD3	1.76	0.66
1:G:2637:ALA:HA	1:G:2640:PRO:HG2	1.78	0.66
1:J:1179:PHE:HB2	1:J:1182:ILE:HD11	1.78	0.66
1:B:2637:ALA:HA	1:B:2640:PRO:HG2	1.78	0.66
1:E:1179:PHE:HB2	1:E:1182:ILE:HD11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2637:ALA:HA	1:E:2640:PRO:HG2	1.78	0.65
1:J:178:ARG:HA	1:J:195:PHE:HD1	1.61	0.65
1:B:2526:PHE:HB3	1:B:2530:MET:HE1	1.79	0.65
1:G:2813:LEU:HA	1:G:2816:MET:HG3	1.78	0.65
1:E:4546:VAL:HG22	1:E:4550:LYS:HE3	1.79	0.65
1:G:2526:PHE:HB3	1:G:2530:MET:HE1	1.79	0.65
1:J:758:ARG:HH11	1:J:761:GLY:HA2	1.62	0.65
1:B:4183:ILE:HD12	1:B:4188:ARG:HH21	1.61	0.65
1:B:4546:VAL:HG22	1:B:4550:LYS:HE3	1.79	0.65
1:E:2768:PHE:HB2	1:E:2857:PRO:HD2	1.77	0.65
1:J:2637:ALA:HA	1:J:2640:PRO:HG2	1.78	0.65
1:B:3100:SER:HB3	1:B:3167:ARG:HD3	1.77	0.65
1:E:1101:ARG:HH12	1:E:1114:GLU:HB3	1.62	0.65
1:G:2980:VAL:HB	1:G:2986:VAL:HB	1.79	0.65
1:J:2454:ARG:HD2	1:J:2458:ARG:HH21	1.61	0.65
1:B:180:LEU:O	1:B:200:TRP:NE1	2.24	0.65
1:B:1101:ARG:HH12	1:B:1114:GLU:HB3	1.62	0.65
1:J:2102:VAL:HG13	1:J:2120:MET:HE2	1.79	0.65
1:J:2902:HIS:CE1	1:J:2904:LEU:HB2	2.31	0.65
1:J:2980:VAL:HB	1:J:2986:VAL:HB	1.79	0.65
1:B:2902:HIS:CE1	1:B:2904:LEU:HB2	2.31	0.65
1:E:1814:MET:HE1	1:E:1841:VAL:HG22	1.79	0.65
1:E:2526:PHE:HB3	1:E:2530:MET:HE1	1.79	0.65
1:G:2454:ARG:HD2	1:G:2458:ARG:HH21	1.61	0.65
1:J:103:TYR:HB2	1:J:159:GLU:HA	1.78	0.65
1:E:4183:ILE:HD12	1:E:4188:ARG:HH21	1.61	0.65
1:B:758:ARG:HH11	1:B:761:GLY:HA2	1.62	0.65
1:B:3187:ARG:HG3	1:B:3188:PRO:HD3	1.79	0.65
1:G:758:ARG:HH11	1:G:761:GLY:HA2	1.62	0.65
1:G:887:ILE:HD13	1:G:959:TYR:HB3	1.79	0.65
1:J:1814:MET:HE1	1:J:1841:VAL:HG22	1.79	0.65
1:J:2526:PHE:HB3	1:J:2530:MET:HE1	1.79	0.65
1:B:2102:VAL:HG13	1:B:2120:MET:HE2	1.79	0.65
1:B:2980:VAL:HB	1:B:2986:VAL:HB	1.79	0.65
1:G:728:ARG:HE	1:G:1487:LEU:HD12	1.61	0.65
1:G:2768:PHE:HB2	1:G:2857:PRO:HD2	1.78	0.65
1:E:758:ARG:HH11	1:E:761:GLY:HA2	1.61	0.64
1:G:1814:MET:HE1	1:G:1841:VAL:HG22	1.79	0.64
1:B:103:TYR:HB2	1:B:159:GLU:HA	1.78	0.64
1:B:178:ARG:HA	1:B:195:PHE:HD1	1.61	0.64
1:B:1519:LEU:HD11	1:B:1572:ILE:HD13	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2454:ARG:HD2	1:B:2458:ARG:HH21	1.61	0.64
1:E:2980:VAL:HB	1:E:2986:VAL:HB	1.79	0.64
1:G:4546:VAL:HG22	1:G:4550:LYS:HE3	1.79	0.64
1:J:1101:ARG:HH12	1:J:1114:GLU:HB3	1.62	0.64
1:B:2813:LEU:HA	1:B:2816:MET:HG3	1.79	0.64
1:E:247:TYR:HB2	1:E:374:LYS:HD2	1.78	0.64
1:E:2454:ARG:HD2	1:E:2458:ARG:HH21	1.61	0.64
1:G:103:TYR:HB2	1:G:159:GLU:HA	1.78	0.64
1:J:2768:PHE:HB2	1:J:2857:PRO:HD2	1.77	0.64
1:J:3433:GLU:HA	1:J:3436:ARG:HD2	1.80	0.64
1:G:372:LEU:O	1:G:374:LYS:HG3	1.97	0.64
1:G:1101:ARG:HH12	1:G:1114:GLU:HB3	1.62	0.64
1:J:887:ILE:HD13	1:J:959:TYR:HB3	1.79	0.64
1:B:728:ARG:HE	1:B:1487:LEU:HD12	1.61	0.64
1:B:1291:LEU:HD12	1:B:1550:PRO:HG2	1.80	0.64
1:B:1814:MET:HE1	1:B:1841:VAL:HG22	1.79	0.64
1:B:2768:PHE:HB2	1:B:2857:PRO:HD2	1.78	0.64
1:J:4183:ILE:HD12	1:J:4188:ARG:HH21	1.61	0.64
1:B:197:GLN:OE1	1:B:197:GLN:N	2.31	0.64
1:B:887:ILE:HD13	1:B:959:TYR:HB3	1.79	0.64
1:B:1815:LEU:HD22	1:B:1845:VAL:HG21	1.79	0.64
1:B:2214:VAL:HG13	1:B:2215:LEU:HD12	1.79	0.64
1:B:3805:LEU:HD21	1:B:3816:MET:HE1	1.79	0.64
1:E:2431:ASP:HB2	1:E:2501:SER:HB2	1.80	0.64
1:E:3187:ARG:HG3	1:E:3188:PRO:HD3	1.79	0.64
1:E:3433:GLU:HA	1:E:3436:ARG:HD2	1.80	0.64
1:E:3805:LEU:HD21	1:E:3816:MET:HE1	1.79	0.64
1:G:718:GLY:HA3	1:G:737:LEU:HA	1.80	0.64
1:G:3196:ARG:HH12	1:G:3341:PHE:HZ	1.46	0.64
1:J:622:THR:HG23	1:J:626:LEU:HD22	1.79	0.64
1:J:3187:ARG:HG3	1:J:3188:PRO:HD3	1.79	0.64
1:J:4546:VAL:HG22	1:J:4550:LYS:HE3	1.79	0.64
1:B:3433:GLU:HA	1:B:3436:ARG:HD2	1.80	0.64
1:G:197:GLN:OE1	1:G:197:GLN:N	2.30	0.64
1:G:3758:MET:HA	1:G:3758:MET:HE2	1.79	0.64
1:G:4183:ILE:HD12	1:G:4188:ARG:HH21	1.61	0.64
1:J:197:GLN:OE1	1:J:197:GLN:N	2.30	0.64
1:J:2813:LEU:HA	1:J:2816:MET:HG3	1.79	0.64
1:J:3031:ALA:O	1:J:3036:LYS:NZ	2.27	0.64
1:B:1771:LEU:HB3	1:B:2153:MET:HE1	1.80	0.64
1:B:3196:ARG:HH12	1:B:3341:PHE:HZ	1.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:601:ASP:OD1	1:E:1668:ARG:NH2	2.31	0.64
1:E:1291:LEU:HD12	1:E:1550:PRO:HG2	1.80	0.64
1:G:622:THR:HG23	1:G:626:LEU:HD22	1.79	0.64
1:G:1291:LEU:HD12	1:G:1550:PRO:HG2	1.80	0.64
1:G:2138:LEU:HB3	1:G:3658:LYS:HE2	1.80	0.64
1:J:728:ARG:HE	1:J:1487:LEU:HD12	1.61	0.64
1:J:3986:TRP:HB3	1:J:4047:MET:CE	2.28	0.64
1:B:622:THR:HG23	1:B:626:LEU:HD22	1.79	0.64
1:B:3078:ARG:HG3	1:B:3152:PHE:HD1	1.63	0.64
1:E:178:ARG:HA	1:E:195:PHE:HD1	1.61	0.64
1:E:728:ARG:HE	1:E:1487:LEU:HD12	1.61	0.64
1:E:2102:VAL:HG13	1:E:2120:MET:HE2	1.79	0.64
1:G:601:ASP:OD1	1:G:1668:ARG:NH2	2.31	0.64
1:G:2214:VAL:HG13	1:G:2215:LEU:HD12	1.79	0.64
1:G:3805:LEU:HD21	1:G:3816:MET:HE1	1.79	0.64
1:J:1815:LEU:HD22	1:J:1845:VAL:HG21	1.79	0.64
1:J:2431:ASP:HB2	1:J:2501:SER:HB2	1.80	0.64
1:E:668:VAL:HG21	1:E:738:LEU:HD12	1.80	0.63
1:E:3758:MET:HE2	1:E:3758:MET:HA	1.79	0.63
1:G:1815:LEU:HD22	1:G:1845:VAL:HG21	1.79	0.63
1:J:601:ASP:OD1	1:J:1668:ARG:NH2	2.31	0.63
1:B:668:VAL:HG21	1:B:738:LEU:HD12	1.80	0.63
1:E:165:VAL:O	1:E:203:ASN:ND2	2.31	0.63
1:E:365:LYS:HE2	1:E:369:LEU:HD21	1.79	0.63
1:E:1738:LEU:HB2	1:E:2146:PRO:HD3	1.79	0.63
1:G:913:LEU:HB3	1:G:917:GLU:HB2	1.80	0.63
1:G:3986:TRP:HB3	1:G:4047:MET:CE	2.28	0.63
1:J:1738:LEU:HB2	1:J:2146:PRO:HD3	1.79	0.63
1:J:2138:LEU:HB3	1:J:3658:LYS:HE2	1.80	0.63
1:B:82:LEU:HD11	1:B:144:GLU:HB3	1.79	0.63
1:G:663:TYR:OH	1:G:758:ARG:NH2	2.32	0.63
1:G:4712:PRO:HB2	1:G:4718:LYS:HA	1.80	0.63
1:J:913:LEU:HB3	1:J:917:GLU:HB2	1.80	0.63
1:J:1528:THR:HG23	1:J:1539:PHE:HE1	1.63	0.63
1:B:601:ASP:OD1	1:B:1668:ARG:NH2	2.31	0.63
1:E:197:GLN:OE1	1:E:197:GLN:N	2.30	0.63
1:E:622:THR:HG23	1:E:626:LEU:HD22	1.79	0.63
1:E:663:TYR:OH	1:E:758:ARG:NH2	2.32	0.63
1:E:2214:VAL:HG13	1:E:2215:LEU:HD12	1.79	0.63
1:J:718:GLY:HA3	1:J:737:LEU:HA	1.80	0.63
1:J:2684:ASP:O	1:J:2688:HIS:ND1	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3805:LEU:HD21	1:J:3816:MET:HE1	1.79	0.63
1:B:913:LEU:HB3	1:B:917:GLU:HB2	1.80	0.63
1:B:1738:LEU:HB2	1:B:2146:PRO:HD3	1.79	0.63
1:B:3758:MET:HE2	1:B:3758:MET:HA	1.79	0.63
1:E:1519:LEU:HD11	1:E:1572:ILE:HD13	1.80	0.63
1:E:2813:LEU:HA	1:E:2816:MET:HG3	1.79	0.63
1:G:3187:ARG:HG3	1:G:3188:PRO:HD3	1.79	0.63
1:J:1291:LEU:HD12	1:J:1550:PRO:HG2	1.80	0.63
1:J:3078:ARG:HG3	1:J:3152:PHE:HD1	1.63	0.63
3:F:67:PHE:CD1	3:F:82:MET:HE1	2.34	0.63
3:K:67:PHE:CD1	3:K:82:MET:HE1	2.34	0.63
1:E:718:GLY:HA3	1:E:737:LEU:HA	1.80	0.63
1:G:1738:LEU:HB2	1:G:2146:PRO:HD3	1.79	0.63
1:G:3078:ARG:HG3	1:G:3152:PHE:HD1	1.63	0.63
1:B:663:TYR:OH	1:B:758:ARG:NH2	2.32	0.63
1:B:1099:GLU:HA	1:B:1127:HIS:HB2	1.80	0.63
1:B:2431:ASP:HB2	1:B:2501:SER:HB2	1.80	0.63
1:B:2599:GLN:O	1:B:2603:ILE:HG12	1.99	0.63
1:E:1815:LEU:HD22	1:E:1845:VAL:HG21	1.79	0.63
1:G:3433:GLU:HA	1:G:3436:ARG:HD2	1.80	0.63
1:J:82:LEU:HD11	1:J:144:GLU:HB3	1.79	0.63
1:J:1519:LEU:HD11	1:J:1572:ILE:HD13	1.80	0.63
1:E:2138:LEU:HB3	1:E:3658:LYS:HE2	1.80	0.63
1:E:2684:ASP:O	1:E:2688:HIS:ND1	2.32	0.63
1:G:82:LEU:HD11	1:G:144:GLU:HB3	1.79	0.63
1:G:1519:LEU:HD11	1:G:1572:ILE:HD13	1.80	0.63
1:J:3758:MET:HE2	1:J:3758:MET:HA	1.79	0.63
1:B:165:VAL:O	1:B:203:ASN:ND2	2.32	0.63
1:B:2684:ASP:O	1:B:2688:HIS:ND1	2.32	0.63
1:B:3569:LEU:CD1	1:B:3573:MET:HE1	2.29	0.63
1:E:887:ILE:HD13	1:E:959:TYR:HB3	1.80	0.63
1:E:3078:ARG:HG3	1:E:3152:PHE:HD1	1.63	0.63
1:J:365:LYS:HE2	1:J:369:LEU:HD21	1.80	0.63
1:J:4712:PRO:HB2	1:J:4718:LYS:HA	1.80	0.63
1:E:3986:TRP:HB3	1:E:4047:MET:CE	2.28	0.62
1:J:165:VAL:O	1:J:203:ASN:ND2	2.31	0.62
1:J:663:TYR:OH	1:J:758:ARG:NH2	2.32	0.62
1:E:2582:MET:HA	1:E:2585:THR:HG22	1.81	0.62
1:G:165:VAL:O	1:G:203:ASN:ND2	2.32	0.62
1:G:2684:ASP:O	1:G:2688:HIS:ND1	2.32	0.62
1:J:2214:VAL:HG13	1:J:2215:LEU:HD12	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:67:PHE:CD1	3:C:82:MET:HE1	2.34	0.62
1:B:2418:LEU:O	1:B:2422:ILE:HG12	2.00	0.62
1:E:3569:LEU:CD1	1:E:3573:MET:HE1	2.29	0.62
1:G:2454:ARG:HG2	1:G:2458:ARG:HE	1.64	0.62
1:G:2582:MET:HA	1:G:2585:THR:HG22	1.82	0.62
1:J:1771:LEU:HB3	1:J:2153:MET:HE1	1.80	0.62
3:M:67:PHE:CD1	3:M:82:MET:HE1	2.34	0.62
1:B:2138:LEU:HB3	1:B:3658:LYS:HE2	1.80	0.62
1:B:2454:ARG:HG2	1:B:2458:ARG:HE	1.64	0.62
1:G:2431:ASP:HB2	1:G:2501:SER:HB2	1.80	0.62
1:J:2582:MET:HA	1:J:2585:THR:HG22	1.81	0.62
1:B:3986:TRP:HB3	1:B:4047:MET:CE	2.28	0.62
1:E:82:LEU:HD11	1:E:144:GLU:HB3	1.79	0.62
1:E:861:ILE:HG21	1:E:933:LEU:HD22	1.81	0.62
1:E:1099:GLU:HA	1:E:1127:HIS:HB2	1.80	0.62
1:E:2599:GLN:O	1:E:2603:ILE:HG12	1.99	0.62
1:G:1099:GLU:HA	1:G:1127:HIS:HB2	1.80	0.62
1:G:1528:THR:HG23	1:G:1539:PHE:HE1	1.63	0.62
1:G:2599:GLN:O	1:G:2603:ILE:HG12	1.99	0.62
1:G:3569:LEU:CD1	1:G:3573:MET:HE1	2.29	0.62
1:G:3962:PHE:CE2	1:G:4019:LEU:HD11	2.35	0.62
1:J:668:VAL:HG21	1:J:738:LEU:HD12	1.80	0.62
1:J:2599:GLN:O	1:J:2603:ILE:HG12	1.99	0.62
1:G:668:VAL:HG21	1:G:738:LEU:HD12	1.80	0.62
1:G:1771:LEU:HB3	1:G:2153:MET:HE1	1.80	0.62
1:G:2902:HIS:HE1	1:G:2904:LEU:HB2	1.65	0.62
1:G:3981:ALA:HA	1:G:3986:TRP:HZ2	1.64	0.62
1:J:1099:GLU:HA	1:J:1127:HIS:HB2	1.80	0.62
1:B:718:GLY:HA3	1:B:737:LEU:HA	1.79	0.62
1:E:913:LEU:HB3	1:E:917:GLU:HB2	1.80	0.62
1:E:2454:ARG:HG2	1:E:2458:ARG:HE	1.64	0.62
1:E:3592:ILE:HG12	1:E:3595:ARG:HH21	1.65	0.62
1:E:4712:PRO:HB2	1:E:4718:LYS:HA	1.80	0.62
1:G:3262:ARG:HG2	1:G:3329:ILE:HG21	1.82	0.62
1:J:3592:ILE:HG12	1:J:3595:ARG:HH21	1.65	0.62
1:B:365:LYS:HE2	1:B:369:LEU:HD21	1.80	0.62
1:B:1862:ILE:HA	1:B:1865:MET:HE3	1.82	0.62
1:G:861:ILE:HG21	1:G:933:LEU:HD22	1.81	0.62
1:G:2102:VAL:HG13	1:G:2120:MET:HE2	1.79	0.62
1:G:2310:CYS:HB3	1:G:2313:LEU:HD23	1.82	0.62
1:G:2418:LEU:O	1:G:2422:ILE:HG12	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3569:LEU:CD1	1:J:3573:MET:HE1	2.29	0.62
1:B:2310:CYS:HB3	1:B:2313:LEU:HD23	1.82	0.62
1:B:3962:PHE:HA	1:B:3965:LEU:HD12	1.82	0.62
1:B:3980:LEU:HD12	1:B:4030:LEU:HD21	1.82	0.62
1:B:3981:ALA:HA	1:B:3986:TRP:HZ2	1.65	0.62
1:B:4712:PRO:HB2	1:B:4718:LYS:HA	1.80	0.62
1:E:2418:LEU:O	1:E:2422:ILE:HG12	2.00	0.62
1:E:3196:ARG:HH12	1:E:3341:PHE:HZ	1.46	0.62
1:G:3594:ARG:NH2	1:G:3597:GLN:OE1	2.33	0.62
1:J:2310:CYS:HB3	1:J:2313:LEU:HD23	1.82	0.62
1:B:4061:PHE:HA	1:B:4064:MET:HE3	1.82	0.62
1:E:985:VAL:HG22	1:E:1043:VAL:HG21	1.82	0.62
1:E:4061:PHE:HA	1:E:4064:MET:HE3	1.82	0.62
1:J:985:VAL:HG22	1:J:1043:VAL:HG21	1.82	0.62
1:J:1291:LEU:HD13	1:J:1595:LEU:HD11	1.81	0.62
1:J:3980:LEU:HD12	1:J:4030:LEU:HD21	1.81	0.62
1:J:3981:ALA:HA	1:J:3986:TRP:HZ2	1.65	0.62
1:E:20:VAL:HG11	1:E:202:MET:SD	2.40	0.61
1:E:1528:THR:HG23	1:E:1539:PHE:HE1	1.63	0.61
1:E:1862:ILE:HA	1:E:1865:MET:HE3	1.82	0.61
1:G:1291:LEU:HD13	1:G:1595:LEU:HD11	1.81	0.61
1:J:2913:ALA:O	1:J:2917:ALA:N	2.24	0.61
1:B:1291:LEU:HD13	1:B:1595:LEU:HD11	1.81	0.61
1:B:1694:LEU:HD11	1:B:1718:ILE:HD11	1.82	0.61
1:E:1694:LEU:HD11	1:E:1718:ILE:HD11	1.82	0.61
1:E:1771:LEU:HB3	1:E:2153:MET:HE1	1.80	0.61
1:B:2582:MET:HA	1:B:2585:THR:HG22	1.81	0.61
1:B:2764:GLU:HG2	1:B:2857:PRO:HD3	1.82	0.61
1:E:3980:LEU:HD12	1:E:4030:LEU:HD21	1.81	0.61
1:G:1547:LYS:NZ	1:G:1642:PRO:O	2.34	0.61
1:J:861:ILE:HG21	1:J:933:LEU:HD22	1.81	0.61
1:B:3262:ARG:HG2	1:B:3329:ILE:HG21	1.82	0.61
1:B:4892:ARG:HH11	1:E:4896:GLY:HA3	1.65	0.61
1:E:1291:LEU:HD13	1:E:1595:LEU:HD11	1.81	0.61
1:E:2764:GLU:HG2	1:E:2857:PRO:HD3	1.82	0.61
1:J:2265:LEU:HD21	1:J:2272:PRO:HG2	1.82	0.61
1:J:3196:ARG:HH12	1:J:3341:PHE:HZ	1.46	0.61
1:J:4072:VAL:O	1:J:4078:GLN:NE2	2.34	0.61
1:E:3282:PRO:HG3	1:E:3345:ILE:HD13	1.83	0.61
1:B:3594:ARG:NH2	1:B:3597:GLN:OE1	2.33	0.61
1:B:4072:VAL:O	1:B:4078:GLN:NE2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1547:LYS:NZ	1:E:1642:PRO:O	2.34	0.61
1:E:2902:HIS:HE1	1:E:2904:LEU:HB2	1.65	0.61
1:E:4072:VAL:O	1:E:4078:GLN:NE2	2.34	0.61
1:G:247:TYR:HE2	1:G:359:TYR:HA	1.66	0.61
1:G:3236:VAL:HA	1:G:3239:MET:HE2	1.83	0.61
1:J:20:VAL:HG11	1:J:202:MET:SD	2.40	0.61
1:J:3262:ARG:HG2	1:J:3329:ILE:HG21	1.82	0.61
1:E:3962:PHE:HA	1:E:3965:LEU:HD12	1.82	0.61
1:B:1547:LYS:NZ	1:B:1642:PRO:O	2.34	0.61
1:B:2902:HIS:HE1	1:B:2904:LEU:HB2	1.65	0.61
1:B:3592:ILE:HG12	1:B:3595:ARG:HH21	1.65	0.61
1:E:4864:ASN:ND2	1:E:4871:GLU:OE2	2.33	0.61
1:G:2764:GLU:HG2	1:G:2857:PRO:HD3	1.82	0.61
1:G:4072:VAL:O	1:G:4078:GLN:NE2	2.34	0.61
1:G:4864:ASN:ND2	1:G:4871:GLU:OE2	2.33	0.61
1:J:3236:VAL:HA	1:J:3239:MET:HE2	1.83	0.61
2:A:87:HIS:HB2	2:A:90:VAL:HG22	1.83	0.61
1:B:3967:GLU:HA	1:B:3970:GLN:CG	2.30	0.61
1:E:2746:ILE:HA	1:E:2814:LYS:HE3	1.82	0.61
1:G:985:VAL:HG22	1:G:1043:VAL:HG21	1.82	0.61
1:G:1862:ILE:HA	1:G:1865:MET:HE3	1.82	0.61
1:G:4896:GLY:HA3	1:J:4892:ARG:HH11	1.65	0.61
1:J:3962:PHE:HA	1:J:3965:LEU:HD12	1.82	0.61
1:J:4864:ASN:ND2	1:J:4871:GLU:OE2	2.33	0.61
1:B:985:VAL:HG22	1:B:1043:VAL:HG21	1.82	0.61
1:B:1528:THR:HG23	1:B:1539:PHE:HE1	1.63	0.61
1:B:2746:ILE:HA	1:B:2814:LYS:HE3	1.82	0.61
1:G:20:VAL:HG11	1:G:202:MET:SD	2.40	0.61
2:H:87:HIS:HB2	2:H:90:VAL:HG22	1.83	0.61
1:B:2299:VAL:HG12	1:B:2360:LYS:HD2	1.83	0.60
1:E:2310:CYS:HB3	1:E:2313:LEU:HD23	1.82	0.60
1:G:3592:ILE:HG12	1:G:3595:ARG:HH21	1.65	0.60
1:B:20:VAL:HG11	1:B:202:MET:SD	2.40	0.60
1:E:3262:ARG:HG2	1:E:3329:ILE:HG21	1.82	0.60
1:J:1547:LYS:NZ	1:J:1642:PRO:O	2.34	0.60
1:J:2764:GLU:HG2	1:J:2857:PRO:HD3	1.82	0.60
2:I:87:HIS:HB2	2:I:90:VAL:HG22	1.83	0.60
1:B:840:VAL:HG12	1:B:1199:VAL:HG12	1.84	0.60
1:B:4864:ASN:ND2	1:B:4871:GLU:OE2	2.33	0.60
1:J:3282:PRO:HG3	1:J:3345:ILE:HD13	1.83	0.60
2:D:87:HIS:HB2	2:D:90:VAL:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4892:ARG:HH11	1:J:4896:GLY:HA3	1.67	0.60
1:G:1694:LEU:HD11	1:G:1718:ILE:HD11	1.82	0.60
1:G:2265:LEU:HD21	1:G:2272:PRO:HG2	1.82	0.60
1:G:2746:ILE:HA	1:G:2814:LYS:HE3	1.82	0.60
1:J:2454:ARG:HG2	1:J:2458:ARG:HE	1.64	0.60
1:J:2746:ILE:HA	1:J:2814:LYS:HE3	1.82	0.60
1:B:2265:LEU:HD21	1:B:2272:PRO:HG2	1.82	0.60
1:E:2265:LEU:HD21	1:E:2272:PRO:HG2	1.82	0.60
1:J:840:VAL:HG12	1:J:1199:VAL:HG12	1.84	0.60
1:J:4876:CYS:HA	1:J:4882:CYS:HB2	1.83	0.60
1:B:861:ILE:HG21	1:B:933:LEU:HD22	1.81	0.60
1:G:3031:ALA:O	1:G:3036:LYS:NZ	2.27	0.60
1:G:3282:PRO:HG3	1:G:3345:ILE:HD13	1.82	0.60
1:J:1694:LEU:HD11	1:J:1718:ILE:HD11	1.82	0.60
1:J:1862:ILE:HA	1:J:1865:MET:HE3	1.82	0.60
1:B:952:LYS:HA	1:B:970:LEU:HA	1.84	0.60
1:B:3236:VAL:HA	1:B:3239:MET:HE2	1.83	0.60
1:B:3282:PRO:HG3	1:B:3345:ILE:HD13	1.82	0.60
1:E:840:VAL:HG12	1:E:1199:VAL:HG12	1.84	0.60
1:E:952:LYS:HA	1:E:970:LEU:HA	1.84	0.60
1:E:4876:CYS:HA	1:E:4882:CYS:HB2	1.83	0.60
1:G:2299:VAL:HG12	1:G:2360:LYS:HD2	1.83	0.60
1:J:2418:LEU:O	1:J:2422:ILE:HG12	2.00	0.60
1:E:3981:ALA:HA	1:E:3986:TRP:HZ2	1.65	0.60
1:J:2902:HIS:HE1	1:J:2904:LEU:HB2	1.65	0.60
1:J:4061:PHE:HA	1:J:4064:MET:HE3	1.82	0.60
1:B:4983:HIS:O	5:B:5102:ATP:N6	2.35	0.60
1:E:2299:VAL:HG12	1:E:2360:LYS:HD2	1.83	0.60
1:E:3236:VAL:HA	1:E:3239:MET:HE2	1.83	0.60
1:G:3967:GLU:HA	1:G:3970:GLN:CG	2.30	0.60
1:B:3391:GLU:O	1:B:3395:ARG:HG3	2.02	0.60
1:G:2882:TYR:HB3	1:G:2886:TRP:CZ3	2.36	0.60
1:G:4061:PHE:HA	1:G:4064:MET:HE3	1.82	0.60
1:J:595:ARG:NH1	1:J:1643:GLU:OE2	2.35	0.60
1:B:4876:CYS:HA	1:B:4882:CYS:HB2	1.83	0.59
1:E:3594:ARG:NH2	1:E:3597:GLN:OE1	2.33	0.59
1:G:4983:HIS:O	5:G:5102:ATP:N6	2.35	0.59
1:J:35:LEU:HG	1:J:51:PRO:HA	1.84	0.59
2:I:10:GLY:HA3	2:I:70:GLN:HB2	1.84	0.59
3:F:122:GLN:NE2	3:F:124:THR:OG1	2.34	0.59
1:E:3208:PRO:HB3	1:E:3236:VAL:HB	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3391:GLU:O	1:E:3395:ARG:HG3	2.02	0.59
1:E:3669:PHE:CE1	1:E:3672:ARG:HB3	2.38	0.59
1:G:840:VAL:HG12	1:G:1199:VAL:HG12	1.84	0.59
1:G:3346:VAL:HG13	1:G:3414:ARG:HG2	1.85	0.59
1:G:3531:ASP:HA	1:G:3534:MET:SD	2.42	0.59
2:D:10:GLY:HA3	2:D:70:GLN:HB2	1.84	0.59
1:B:2882:TYR:HB3	1:B:2886:TRP:CZ3	2.36	0.59
1:B:3346:VAL:HG13	1:B:3414:ARG:HG2	1.85	0.59
1:E:35:LEU:HG	1:E:51:PRO:HA	1.84	0.59
1:G:247:TYR:HB2	1:G:374:LYS:HD2	1.83	0.59
1:G:4658:ILE:HD11	1:G:4796:MET:HE3	1.85	0.59
1:J:3669:PHE:CE1	1:J:3672:ARG:HB3	2.38	0.59
1:B:2495:VAL:HG22	1:B:2497:ASP:H	1.68	0.59
1:E:3539:ARG:HD3	1:E:3542:LEU:HD12	1.85	0.59
1:E:3757:GLU:O	1:E:3761:GLN:HG2	2.02	0.59
1:G:2469:ILE:HG23	1:G:2502:MET:HE3	1.84	0.59
1:G:3208:PRO:HB3	1:G:3236:VAL:HB	1.84	0.59
1:J:2642:LYS:HE3	1:J:2646:ASN:HD21	1.68	0.59
1:J:2882:TYR:HB3	1:J:2886:TRP:CZ3	2.36	0.59
1:B:246:TYR:CD1	1:B:375:LYS:HA	2.37	0.59
1:B:3531:ASP:HA	1:B:3534:MET:SD	2.42	0.59
1:J:870:ILE:O	1:J:874:LEU:HG	2.02	0.59
1:J:952:LYS:HA	1:J:970:LEU:HA	1.84	0.59
2:H:10:GLY:HA3	2:H:70:GLN:HB2	1.84	0.59
1:E:1573:MET:HE1	1:E:1587:PRO:HA	1.85	0.59
1:E:3346:VAL:HG13	1:E:3414:ARG:HG2	1.84	0.59
1:G:870:ILE:O	1:G:874:LEU:HG	2.02	0.59
1:G:3669:PHE:CE1	1:G:3672:ARG:HB3	2.38	0.59
1:J:3594:ARG:NH2	1:J:3597:GLN:OE1	2.33	0.59
1:B:870:ILE:O	1:B:874:LEU:HG	2.02	0.59
1:B:1573:MET:HE1	1:B:1587:PRO:HA	1.84	0.59
1:B:3981:ALA:HA	1:B:3986:TRP:CZ2	2.37	0.59
1:B:4658:ILE:HD11	1:B:4796:MET:HE3	1.85	0.59
1:B:4896:GLY:HA3	1:G:4892:ARG:HH11	1.67	0.59
1:E:870:ILE:O	1:E:874:LEU:HG	2.02	0.59
1:E:3457:ASN:HA	1:E:3460:VAL:HG12	1.84	0.59
1:E:4658:ILE:HD11	1:E:4796:MET:HE3	1.85	0.59
1:G:3457:ASN:HA	1:G:3460:VAL:HG12	1.84	0.59
1:J:3531:ASP:HA	1:J:3534:MET:SD	2.42	0.59
1:J:4658:ILE:HD11	1:J:4796:MET:HE3	1.85	0.59
1:B:35:LEU:HG	1:B:51:PRO:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1465:ASP:OD1	1:B:1466:LEU:N	2.36	0.59
1:B:2624:ARG:HH22	1:B:2912:THR:HG22	1.68	0.59
1:E:3981:ALA:HA	1:E:3986:TRP:CZ2	2.37	0.59
1:E:4817:ALA:HB1	1:E:4827:LEU:HD11	1.85	0.59
1:E:4983:HIS:O	5:E:5102:ATP:N6	2.35	0.59
1:G:4876:CYS:HA	1:G:4882:CYS:HB2	1.83	0.59
1:B:2642:LYS:HE3	1:B:2646:ASN:HD21	1.68	0.59
1:B:3208:PRO:HB3	1:B:3236:VAL:HB	1.84	0.59
1:B:3962:PHE:CE1	1:B:4023:MET:HE1	2.38	0.59
1:B:4817:ALA:HB1	1:B:4827:LEU:HD11	1.85	0.59
1:E:942:ALA:HB2	1:E:1052:ASN:HB3	1.85	0.59
1:E:3962:PHE:CE1	1:E:4023:MET:HE1	2.38	0.59
1:G:952:LYS:HA	1:G:970:LEU:HA	1.84	0.59
1:J:1573:MET:HE1	1:J:1587:PRO:HA	1.84	0.59
1:J:2299:VAL:HG12	1:J:2360:LYS:HD2	1.83	0.59
1:J:3346:VAL:HG13	1:J:3414:ARG:HG2	1.84	0.59
1:B:3539:ARG:HD3	1:B:3542:LEU:HD12	1.85	0.59
1:E:2624:ARG:HH22	1:E:2912:THR:HG22	1.68	0.59
1:E:3720:TYR:HA	1:E:3723:MET:HE2	1.85	0.59
1:G:35:LEU:HG	1:G:51:PRO:HA	1.84	0.59
1:G:595:ARG:NH1	1:G:1643:GLU:OE2	2.35	0.59
1:G:3720:TYR:HA	1:G:3723:MET:HE2	1.85	0.59
1:J:246:TYR:CD1	1:J:375:LYS:HA	2.37	0.59
1:B:2469:ILE:HG23	1:B:2502:MET:HE3	1.84	0.58
1:E:2642:LYS:HE3	1:E:2646:ASN:HD21	1.68	0.58
1:G:58:VAL:HG12	1:G:305:CYS:HA	1.85	0.58
1:G:1573:MET:HE1	1:G:1587:PRO:HA	1.85	0.58
1:G:2202:GLY:HA2	1:G:2204:HIS:CE1	2.38	0.58
1:G:3416:VAL:O	1:G:3420:ARG:HB2	2.03	0.58
1:G:3962:PHE:HE2	1:G:4019:LEU:HD11	1.68	0.58
1:G:3981:ALA:HA	1:G:3986:TRP:CZ2	2.37	0.58
1:J:3539:ARG:HD3	1:J:3542:LEU:HD12	1.85	0.58
1:J:3981:ALA:HA	1:J:3986:TRP:CZ2	2.37	0.58
1:J:4817:ALA:HB1	1:J:4827:LEU:HD11	1.85	0.58
1:J:4983:HIS:O	5:J:5102:ATP:N6	2.35	0.58
1:B:631:LEU:HD22	1:B:1594:ARG:HH12	1.68	0.58
1:B:942:ALA:HB2	1:B:1052:ASN:HB3	1.85	0.58
1:B:3669:PHE:CE1	1:B:3672:ARG:HB3	2.38	0.58
1:B:3720:TYR:HA	1:B:3723:MET:HE2	1.85	0.58
1:G:1032:LYS:HB3	1:G:1036:ARG:HH22	1.68	0.58
1:G:1786:LEU:HD12	1:G:1787:PRO:HD2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:58:VAL:HG12	1:J:305:CYS:HA	1.85	0.58
1:B:3846:ALA:HB1	1:B:3873:LYS:HG2	1.86	0.58
1:E:3531:ASP:HA	1:E:3534:MET:SD	2.42	0.58
1:J:1465:ASP:OD1	1:J:1466:LEU:N	2.36	0.58
1:J:3457:ASN:HA	1:J:3460:VAL:HG12	1.84	0.58
1:B:58:VAL:HG12	1:B:305:CYS:HA	1.85	0.58
1:B:2651:CYS:HB3	1:B:2654:TYR:HB3	1.85	0.58
1:E:2651:CYS:HB3	1:E:2654:TYR:HB3	1.85	0.58
1:G:2642:LYS:HE3	1:G:2646:ASN:HD21	1.68	0.58
1:J:2961:GLN:HA	1:J:2964:LEU:HD12	1.86	0.58
1:B:675:LEU:HG	1:B:676:THR:HG23	1.86	0.58
1:B:3416:VAL:O	1:B:3420:ARG:HB2	2.04	0.58
1:E:3227:ARG:HB3	1:E:3232:LEU:HB2	1.86	0.58
1:G:360:ALA:HB3	1:G:375:LYS:HB3	1.85	0.58
1:G:2495:VAL:HG22	1:G:2497:ASP:H	1.68	0.58
1:J:1032:LYS:HB3	1:J:1036:ARG:HH22	1.68	0.58
1:J:2495:VAL:HG22	1:J:2497:ASP:H	1.68	0.58
1:J:2624:ARG:HH22	1:J:2912:THR:HG22	1.68	0.58
1:J:3962:PHE:CE1	1:J:4023:MET:HE1	2.38	0.58
3:K:105:ASN:HD21	3:K:111:ASN:HB2	1.68	0.58
1:B:1862:ILE:O	1:B:1866:ILE:HG13	2.04	0.58
1:B:2961:GLN:HA	1:B:2964:LEU:HD12	1.86	0.58
1:B:3757:GLU:O	1:B:3761:GLN:HG2	2.02	0.58
1:E:1465:ASP:OD1	1:E:1466:LEU:N	2.36	0.58
1:E:2961:GLN:HA	1:E:2964:LEU:HD12	1.86	0.58
1:G:748:LEU:HD13	1:G:755:ILE:HG12	1.86	0.58
1:G:3757:GLU:O	1:G:3761:GLN:HG2	2.03	0.58
1:J:631:LEU:HD22	1:J:1594:ARG:HH12	1.68	0.58
1:J:917:GLU:CD	3:K:101:PRO:HB2	2.29	0.58
1:J:3227:ARG:HB3	1:J:3232:LEU:HB2	1.86	0.58
1:B:1786:LEU:HD12	1:B:1787:PRO:HD2	1.85	0.58
1:B:3227:ARG:HB3	1:B:3232:LEU:HB2	1.86	0.58
1:E:1032:LYS:HB3	1:E:1036:ARG:HH22	1.68	0.58
1:E:2469:ILE:HG23	1:E:2502:MET:HE3	1.84	0.58
1:E:3967:GLU:HA	1:E:3970:GLN:CG	2.30	0.58
1:G:574:VAL:HA	1:G:577:ILE:HG22	1.85	0.58
1:G:1503:PRO:O	1:G:1534:LYS:NZ	2.36	0.58
1:G:1721:GLU:OE2	1:G:1725:ARG:NH2	2.36	0.58
1:G:3227:ARG:HB3	1:G:3232:LEU:HB2	1.86	0.58
1:J:3416:VAL:O	1:J:3420:ARG:HB2	2.03	0.58
2:A:10:GLY:HA3	2:A:70:GLN:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1032:LYS:HB3	1:B:1036:ARG:HH22	1.68	0.58
1:B:2202:GLY:HA2	1:B:2204:HIS:CE1	2.39	0.58
1:E:58:VAL:HG12	1:E:305:CYS:HA	1.85	0.58
1:E:574:VAL:HA	1:E:577:ILE:HG22	1.85	0.58
1:E:1503:PRO:O	1:E:1534:LYS:NZ	2.36	0.58
1:E:2257:LEU:HD22	1:E:2272:PRO:HB3	1.86	0.58
1:E:3846:ALA:HB1	1:E:3873:LYS:HG2	1.86	0.58
1:E:3900:GLN:HB3	1:E:3976:ASN:HD21	1.69	0.58
1:G:631:LEU:HD22	1:G:1594:ARG:HH12	1.68	0.58
1:G:3391:GLU:O	1:G:3395:ARG:HG3	2.03	0.58
1:G:3539:ARG:HD3	1:G:3542:LEU:HD12	1.85	0.58
1:G:3940:LYS:O	1:G:4002:LYS:NZ	2.36	0.58
1:J:3391:GLU:O	1:J:3395:ARG:HG3	2.02	0.58
2:A:30:LEU:HB2	2:A:34:LYS:HB2	1.86	0.58
2:H:30:LEU:HB2	2:H:34:LYS:HB2	1.86	0.58
1:B:904:HIS:HD2	1:B:907:LEU:H	1.51	0.58
1:B:2325:PRO:O	1:B:2329:GLU:HG2	2.04	0.58
1:B:3457:ASN:HA	1:B:3460:VAL:HG12	1.84	0.58
1:E:3416:VAL:O	1:E:3420:ARG:HB2	2.03	0.58
1:G:2624:ARG:HH22	1:G:2912:THR:HG22	1.68	0.58
1:G:3846:ALA:HB1	1:G:3873:LYS:HG2	1.86	0.58
1:J:1862:ILE:O	1:J:1866:ILE:HG13	2.03	0.58
1:J:3208:PRO:HB3	1:J:3236:VAL:HB	1.84	0.58
2:I:30:LEU:HB2	2:I:34:LYS:HB2	1.86	0.58
3:K:122:GLN:NE2	3:K:124:THR:OG1	2.34	0.58
1:B:294:THR:HG23	1:B:297:GLN:H	1.69	0.58
1:E:631:LEU:HD22	1:E:1594:ARG:HH12	1.68	0.58
1:J:1503:PRO:O	1:J:1534:LYS:NZ	2.36	0.58
1:J:2202:GLY:HA2	1:J:2204:HIS:CE1	2.39	0.58
1:J:2325:PRO:O	1:J:2329:GLU:HG2	2.04	0.58
2:D:30:LEU:HB2	2:D:34:LYS:HB2	1.86	0.58
2:H:65:GLN:HE22	2:H:66:MET:HE2	1.69	0.58
2:I:65:GLN:HE22	2:I:66:MET:HE2	1.69	0.58
1:B:544:LEU:HD12	1:B:574:VAL:HB	1.86	0.57
1:B:2257:LEU:HD22	1:B:2272:PRO:HB3	1.86	0.57
1:B:2881:ASN:HA	1:B:2884:ASN:ND2	2.20	0.57
1:G:1973:GLN:HE22	1:G:3641:LEU:H	1.52	0.57
1:G:4817:ALA:HB1	1:G:4827:LEU:HD11	1.85	0.57
1:J:748:LEU:HD13	1:J:755:ILE:HG12	1.86	0.57
1:J:2469:ILE:HG23	1:J:2502:MET:HE3	1.84	0.57
1:B:574:VAL:HA	1:B:577:ILE:HG22	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3900:GLN:HB3	1:B:3976:ASN:HD21	1.69	0.57
1:E:2881:ASN:HA	1:E:2884:ASN:ND2	2.19	0.57
1:G:942:ALA:HB2	1:G:1052:ASN:HB3	1.85	0.57
1:G:2325:PRO:O	1:G:2329:GLU:HG2	2.04	0.57
1:G:4952:GLU:O	1:G:4956:THR:HG23	2.05	0.57
1:J:942:ALA:HB2	1:J:1052:ASN:HB3	1.85	0.57
1:J:981:GLN:O	1:J:985:VAL:HG23	2.04	0.57
1:J:1973:GLN:HE22	1:J:3641:LEU:H	1.52	0.57
1:J:3720:TYR:HA	1:J:3723:MET:HE2	1.85	0.57
1:B:3835:LEU:HD22	1:B:3880:PHE:HZ	1.70	0.57
1:E:544:LEU:HD12	1:E:574:VAL:HB	1.86	0.57
1:E:2202:GLY:HA2	1:E:2204:HIS:CE1	2.39	0.57
1:E:2882:TYR:HB3	1:E:2886:TRP:CZ3	2.36	0.57
1:E:1862:ILE:O	1:E:1866:ILE:HG13	2.03	0.57
1:G:1465:ASP:OD1	1:G:1466:LEU:N	2.36	0.57
1:G:2881:ASN:HA	1:G:2884:ASN:ND2	2.19	0.57
1:G:3835:LEU:HD22	1:G:3880:PHE:HZ	1.70	0.57
1:J:1782:PHE:O	2:I:82:TYR:OH	2.22	0.57
1:J:1786:LEU:HD12	1:J:1787:PRO:HD2	1.85	0.57
1:J:2881:ASN:HA	1:J:2884:ASN:ND2	2.19	0.57
1:E:294:THR:HG23	1:E:297:GLN:H	1.69	0.57
1:G:365:LYS:HE2	1:G:369:LEU:HD21	1.86	0.57
1:G:2961:GLN:HA	1:G:2964:LEU:HD12	1.86	0.57
1:J:904:HIS:HD2	1:J:907:LEU:H	1.51	0.57
1:J:3900:GLN:HB3	1:J:3976:ASN:HD21	1.69	0.57
1:B:595:ARG:NH1	1:B:1643:GLU:OE2	2.35	0.57
1:B:981:GLN:O	1:B:985:VAL:HG23	2.04	0.57
1:B:1973:GLN:HE22	1:B:3641:LEU:H	1.52	0.57
1:B:2768:PHE:O	1:B:2772:GLN:HG2	2.05	0.57
1:E:983:THR:HB	1:E:987:ARG:HH12	1.70	0.57
1:G:917:GLU:CD	3:M:101:PRO:HB2	2.30	0.57
1:G:981:GLN:O	1:G:985:VAL:HG23	2.04	0.57
1:G:1449:TRP:HB3	1:G:1494:MET:HG3	1.87	0.57
1:J:2651:CYS:HB3	1:J:2654:TYR:HB3	1.85	0.57
1:J:3757:GLU:O	1:J:3761:GLN:HG2	2.03	0.57
1:J:3967:GLU:HA	1:J:3970:GLN:CG	2.30	0.57
2:H:13:ARG:HH11	2:H:13:ARG:C	2.12	0.57
1:B:4952:GLU:O	1:B:4956:THR:HG23	2.05	0.57
1:E:595:ARG:NH1	1:E:1643:GLU:OE2	2.35	0.57
1:E:675:LEU:HG	1:E:676:THR:HG23	1.86	0.57
1:E:2768:PHE:O	1:E:2772:GLN:HG2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:574:VAL:HA	1:J:577:ILE:HG22	1.85	0.57
1:J:3846:ALA:HB1	1:J:3873:LYS:HG2	1.86	0.57
1:E:1973:GLN:HE22	1:E:3641:LEU:H	1.52	0.57
1:E:4654:ALA:HB1	1:E:4796:MET:HE1	1.87	0.57
1:G:1862:ILE:O	1:G:1866:ILE:HG13	2.04	0.57
1:J:1232:ARG:NH2	1:J:1828:ASP:O	2.37	0.57
1:J:2768:PHE:O	1:J:2772:GLN:HG2	2.05	0.57
1:J:3270:ILE:H	1:J:3270:ILE:HD12	1.70	0.57
1:J:3835:LEU:HD22	1:J:3880:PHE:HZ	1.69	0.57
1:J:4676:GLU:O	1:J:4680:LYS:HG2	2.05	0.57
3:F:105:ASN:HD21	3:F:111:ASN:HB2	1.68	0.57
3:M:105:ASN:HD21	3:M:111:ASN:HB2	1.68	0.57
1:B:3018:LEU:HB2	1:B:3074:SER:HA	1.87	0.57
1:E:2495:VAL:HG22	1:E:2497:ASP:H	1.68	0.57
1:G:675:LEU:HG	1:G:676:THR:HG23	1.86	0.57
1:J:3695:PRO:HB2	1:J:3699:HIS:HB3	1.87	0.57
2:A:65:GLN:HE22	2:A:66:MET:HE2	1.69	0.57
2:D:65:GLN:HE22	2:D:66:MET:HE2	1.69	0.57
1:B:1102:VAL:HG11	1:B:1149:VAL:HG11	1.87	0.57
1:E:1206:GLN:HE22	1:E:1233:PRO:HA	1.70	0.57
1:G:294:THR:HG23	1:G:297:GLN:H	1.69	0.57
1:G:983:THR:HB	1:G:987:ARG:HH12	1.69	0.57
1:G:2651:CYS:HB3	1:G:2654:TYR:HB3	1.85	0.57
1:G:2768:PHE:O	1:G:2772:GLN:HG2	2.05	0.57
1:G:3695:PRO:HB2	1:G:3699:HIS:HB3	1.87	0.57
1:B:748:LEU:HD13	1:B:755:ILE:HG12	1.86	0.56
1:B:2751:LEU:O	1:B:2755:ILE:HG12	2.05	0.56
1:E:16:THR:HB	1:E:98:HIS:HA	1.87	0.56
1:E:981:GLN:O	1:E:985:VAL:HG23	2.04	0.56
1:E:1679:ASN:ND2	1:E:1797:ARG:O	2.37	0.56
1:G:3043:PHE:HA	1:G:3071:LEU:HD13	1.87	0.56
1:J:3413:ILE:HG23	1:J:3516:LYS:HE2	1.87	0.56
2:I:13:ARG:HH11	2:I:13:ARG:C	2.12	0.56
1:B:16:THR:HB	1:B:98:HIS:HA	1.87	0.56
1:B:1449:TRP:HB3	1:B:1494:MET:HG3	1.87	0.56
1:E:748:LEU:HD13	1:E:755:ILE:HG12	1.86	0.56
1:E:904:HIS:HD2	1:E:907:LEU:H	1.51	0.56
1:E:3158:LEU:O	1:E:3162:GLN:NE2	2.38	0.56
1:E:3413:ILE:HG23	1:E:3516:LYS:HE2	1.87	0.56
1:E:3835:LEU:HD22	1:E:3880:PHE:HZ	1.70	0.56
1:G:1023:PRO:HD2	1:G:1026:LEU:HD22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3312:LEU:HB2	1:G:3345:ILE:HD11	1.87	0.56
1:G:5009:TYR:HA	1:G:5012:LYS:HE3	1.87	0.56
1:J:294:THR:HG23	1:J:297:GLN:H	1.69	0.56
1:J:675:LEU:HG	1:J:676:THR:HG23	1.86	0.56
1:J:1023:PRO:HD2	1:J:1026:LEU:HD22	1.87	0.56
1:J:3158:LEU:O	1:J:3162:GLN:NE2	2.38	0.56
2:A:13:ARG:HH11	2:A:13:ARG:C	2.12	0.56
1:B:917:GLU:CD	3:C:101:PRO:HB2	2.30	0.56
1:B:1206:GLN:HE22	1:B:1233:PRO:HA	1.70	0.56
1:B:3312:LEU:HB2	1:B:3345:ILE:HD11	1.87	0.56
1:B:4676:GLU:O	1:B:4680:LYS:HG2	2.05	0.56
1:E:917:GLU:CD	3:F:101:PRO:HB2	2.30	0.56
1:E:1786:LEU:HD12	1:E:1787:PRO:HD2	1.85	0.56
1:E:2131:LEU:HD11	1:E:3662:ILE:HG12	1.88	0.56
1:E:2325:PRO:O	1:E:2329:GLU:HG2	2.04	0.56
1:E:2751:LEU:O	1:E:2755:ILE:HG12	2.05	0.56
1:E:2816:MET:HE1	1:E:2823:ILE:HG23	1.87	0.56
1:E:3270:ILE:H	1:E:3270:ILE:HD12	1.70	0.56
1:E:3312:LEU:HB2	1:E:3345:ILE:HD11	1.88	0.56
1:E:4952:GLU:O	1:E:4956:THR:HG23	2.05	0.56
1:G:544:LEU:HD12	1:G:574:VAL:HB	1.86	0.56
1:J:544:LEU:HD12	1:J:574:VAL:HB	1.86	0.56
1:J:1206:GLN:HE22	1:J:1233:PRO:HA	1.70	0.56
1:J:1721:GLU:OE2	1:J:1725:ARG:NH2	2.36	0.56
1:J:2257:LEU:HD22	1:J:2272:PRO:HB3	1.86	0.56
1:J:4952:GLU:O	1:J:4956:THR:HG23	2.05	0.56
1:J:5009:TYR:HA	1:J:5012:LYS:HE3	1.87	0.56
3:M:122:GLN:NE2	3:M:124:THR:OG1	2.34	0.56
1:B:365:LYS:O	1:B:369:LEU:HG	2.06	0.56
1:B:2131:LEU:HD11	1:B:3662:ILE:HG12	1.88	0.56
1:B:2816:MET:HE1	1:B:2823:ILE:HG23	1.87	0.56
1:E:2527:LEU:HD11	1:E:2582:MET:HB3	1.88	0.56
1:E:3065:VAL:O	1:E:3069:HIS:ND1	2.38	0.56
1:G:2257:LEU:HD22	1:G:2272:PRO:HB3	1.86	0.56
1:G:3270:ILE:H	1:G:3270:ILE:HD12	1.70	0.56
1:B:2449:GLU:O	1:B:2453:ILE:HG12	2.06	0.56
1:B:3065:VAL:O	1:B:3069:HIS:ND1	2.39	0.56
1:B:3219:TYR:OH	1:B:3235:SER:N	2.39	0.56
1:B:3695:PRO:HB2	1:B:3699:HIS:HB3	1.87	0.56
1:B:3768:SER:HA	1:B:3771:HIS:CD2	2.41	0.56
1:E:3018:LEU:HB2	1:E:3074:SER:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3800:LEU:O	1:E:3804:ILE:HG12	2.06	0.56
1:G:883:ALA:HA	1:G:886:ARG:HE	1.70	0.56
1:G:3158:LEU:O	1:G:3162:GLN:NE2	2.38	0.56
1:J:883:ALA:HA	1:J:886:ARG:HE	1.70	0.56
3:C:105:ASN:HD21	3:C:111:ASN:HB2	1.70	0.56
1:B:2364:PHE:HD1	1:B:2429:LEU:HD21	1.71	0.56
1:B:3158:LEU:O	1:B:3162:GLN:NE2	2.38	0.56
1:B:4654:ALA:HB1	1:B:4796:MET:HE1	1.87	0.56
1:E:844:ARG:HE	1:E:845:CYS:H	1.54	0.56
1:G:2123:LEU:O	1:G:2127:GLN:HG2	2.06	0.56
1:G:3065:VAL:O	1:G:3069:HIS:ND1	2.38	0.56
1:G:4654:ALA:HB1	1:G:4796:MET:HE1	1.87	0.56
1:J:3312:LEU:HB2	1:J:3345:ILE:HD11	1.87	0.56
3:C:122:GLN:NE2	3:C:124:THR:OG1	2.34	0.56
1:B:1240:LYS:HE3	1:B:1242:LEU:HB3	1.87	0.56
1:B:1503:PRO:O	1:B:1534:LYS:NZ	2.36	0.56
1:B:3270:ILE:H	1:B:3270:ILE:HD12	1.70	0.56
1:B:3800:LEU:O	1:B:3804:ILE:HG12	2.06	0.56
1:E:1102:VAL:HG11	1:E:1149:VAL:HG11	1.87	0.56
1:E:3695:PRO:HB2	1:E:3699:HIS:HB3	1.87	0.56
1:E:3768:SER:HA	1:E:3771:HIS:CD2	2.41	0.56
1:G:904:HIS:HD2	1:G:907:LEU:H	1.51	0.56
1:G:1206:GLN:HE22	1:G:1233:PRO:HA	1.70	0.56
1:G:2449:GLU:O	1:G:2453:ILE:HG12	2.06	0.56
1:G:3018:LEU:HB2	1:G:3074:SER:HA	1.87	0.56
1:J:2131:LEU:HD11	1:J:3662:ILE:HG12	1.88	0.56
1:J:3065:VAL:O	1:J:3069:HIS:ND1	2.38	0.56
1:J:3940:LYS:O	1:J:4002:LYS:NZ	2.36	0.56
1:B:983:THR:HB	1:B:987:ARG:HH12	1.70	0.56
1:B:3413:ILE:HG23	1:B:3516:LYS:HE2	1.87	0.56
1:E:3043:PHE:HA	1:E:3071:LEU:HD13	1.87	0.56
1:E:4676:GLU:O	1:E:4680:LYS:HG2	2.05	0.56
1:G:2527:LEU:HD11	1:G:2582:MET:HB3	1.88	0.56
1:J:16:THR:HB	1:J:98:HIS:HA	1.87	0.56
1:J:3219:TYR:OH	1:J:3235:SER:N	2.39	0.56
2:D:13:ARG:HH11	2:D:13:ARG:C	2.12	0.56
1:B:2527:LEU:HD11	1:B:2582:MET:HB3	1.88	0.56
1:E:1023:PRO:HD2	1:E:1026:LEU:HD22	1.87	0.56
1:E:1721:GLU:OE2	1:E:1725:ARG:NH2	2.36	0.56
1:E:2123:LEU:O	1:E:2127:GLN:HG2	2.06	0.56
1:G:499:THR:HG23	1:G:502:HIS:H	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2364:PHE:HD1	1:G:2429:LEU:HD21	1.71	0.56
1:G:3413:ILE:HG23	1:G:3516:LYS:HE2	1.87	0.56
1:J:1240:LYS:HE3	1:J:1242:LEU:HB3	1.87	0.56
1:J:3768:SER:HA	1:J:3771:HIS:CD2	2.41	0.56
1:B:844:ARG:HE	1:B:845:CYS:H	1.54	0.56
1:B:1155:LEU:HD22	1:B:1184:ILE:HG12	1.88	0.56
1:B:4879:MET:HE1	1:G:4580:TYR:HB2	1.88	0.56
1:E:1449:TRP:HB3	1:E:1494:MET:HG3	1.87	0.56
1:E:2238:TYR:O	1:E:2242:ILE:HG12	2.06	0.56
1:G:1782:PHE:O	2:H:82:TYR:OH	2.22	0.56
1:G:3800:LEU:O	1:G:3804:ILE:HG12	2.06	0.56
1:G:4673:ARG:NH2	1:G:4702:ASP:OD1	2.39	0.56
1:G:4676:GLU:O	1:G:4680:LYS:HG2	2.05	0.56
1:J:2449:GLU:O	1:J:2453:ILE:HG12	2.06	0.56
1:J:2751:LEU:O	1:J:2755:ILE:HG12	2.05	0.56
1:J:2816:MET:HE1	1:J:2823:ILE:HG23	1.87	0.56
1:B:1023:PRO:HD2	1:B:1026:LEU:HD22	1.88	0.55
1:B:2626:LEU:HG	1:B:2640:PRO:HB3	1.88	0.55
1:B:3043:PHE:HA	1:B:3071:LEU:HD13	1.87	0.55
1:E:2449:GLU:O	1:E:2453:ILE:HG12	2.06	0.55
1:E:4673:ARG:NH2	1:E:4702:ASP:OD1	2.39	0.55
1:G:2238:TYR:O	1:G:2242:ILE:HG12	2.06	0.55
1:G:2751:LEU:O	1:G:2755:ILE:HG12	2.05	0.55
1:G:2816:MET:HE1	1:G:2823:ILE:HG23	1.87	0.55
1:J:499:THR:HG23	1:J:502:HIS:H	1.71	0.55
1:J:983:THR:HB	1:J:987:ARG:HH12	1.69	0.55
1:J:1449:TRP:HB3	1:J:1494:MET:HG3	1.87	0.55
1:J:2123:LEU:O	1:J:2127:GLN:HG2	2.06	0.55
1:B:2238:TYR:O	1:B:2242:ILE:HG12	2.06	0.55
1:B:3847:PHE:HB2	1:B:3874:VAL:HG12	1.87	0.55
1:G:844:ARG:HE	1:G:845:CYS:H	1.54	0.55
1:G:1102:VAL:HG11	1:G:1149:VAL:HG11	1.87	0.55
1:J:365:LYS:O	1:J:369:LEU:HG	2.06	0.55
1:J:844:ARG:HE	1:J:845:CYS:H	1.54	0.55
1:J:1155:LEU:HD22	1:J:1184:ILE:HG12	1.88	0.55
1:J:3043:PHE:HA	1:J:3071:LEU:HD13	1.87	0.55
1:J:3206:LEU:HB2	1:J:3246:LEU:HD23	1.88	0.55
1:J:3800:LEU:O	1:J:3804:ILE:HG12	2.06	0.55
1:J:4654:ALA:HB1	1:J:4796:MET:HE1	1.87	0.55
1:B:499:THR:HG23	1:B:502:HIS:H	1.71	0.55
1:B:1232:ARG:NH2	1:B:1828:ASP:O	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3219:TYR:OH	1:E:3235:SER:N	2.39	0.55
1:G:1232:ARG:NH2	1:G:1828:ASP:O	2.37	0.55
1:G:2131:LEU:HD11	1:G:3662:ILE:HG12	1.88	0.55
1:G:3847:PHE:HB2	1:G:3874:VAL:HG12	1.87	0.55
1:J:4749:GLU:HG3	1:J:4753:HIS:NE2	2.21	0.55
1:B:3967:GLU:CA	1:B:3970:GLN:HG2	2.34	0.55
1:B:4673:ARG:NH2	1:B:4702:ASP:OD1	2.39	0.55
1:E:883:ALA:HA	1:E:886:ARG:HE	1.70	0.55
1:E:4580:TYR:HB2	1:J:4879:MET:HE1	1.88	0.55
1:G:16:THR:HB	1:G:98:HIS:HA	1.86	0.55
1:G:2131:LEU:HB3	1:G:3667:HIS:CE1	2.42	0.55
1:G:3884:LEU:O	1:G:3888:LEU:HG	2.06	0.55
1:G:4735:GLU:O	1:G:4739:GLU:HG2	2.07	0.55
1:J:355:LEU:HB3	1:J:378:LEU:HB3	1.88	0.55
1:B:2131:LEU:HB3	1:B:3667:HIS:CE1	2.42	0.55
1:B:2464:ASP:OD1	1:B:2465:ASP:N	2.40	0.55
1:E:3847:PHE:HB2	1:E:3874:VAL:HG12	1.87	0.55
1:G:3219:TYR:OH	1:G:3235:SER:N	2.39	0.55
1:B:248:GLU:HB2	1:B:373:LYS:HA	1.88	0.55
1:B:355:LEU:HB3	1:B:378:LEU:HB3	1.88	0.55
1:B:2039:LEU:HB3	1:B:2044:ILE:HB	1.89	0.55
1:B:3206:LEU:HB2	1:B:3246:LEU:HD23	1.88	0.55
1:E:2364:PHE:HD1	1:E:2429:LEU:HD21	1.71	0.55
1:E:2626:LEU:HG	1:E:2640:PRO:HB3	1.88	0.55
1:G:1240:LYS:HE3	1:G:1242:LEU:HB3	1.87	0.55
1:G:1504:GLY:O	1:G:1532:ASN:ND2	2.40	0.55
1:G:3768:SER:HA	1:G:3771:HIS:CD2	2.41	0.55
1:J:3018:LEU:HB2	1:J:3074:SER:HA	1.87	0.55
1:J:3847:PHE:HB2	1:J:3874:VAL:HG12	1.88	0.55
1:J:4735:GLU:O	1:J:4739:GLU:HG2	2.07	0.55
1:B:1721:GLU:OE2	1:B:1725:ARG:NH2	2.36	0.55
1:B:2123:LEU:O	1:B:2127:GLN:HG2	2.06	0.55
1:B:4580:TYR:HB2	1:E:4879:MET:HE1	1.89	0.55
1:B:5009:TYR:HA	1:B:5012:LYS:HE3	1.87	0.55
1:E:499:THR:HG23	1:E:502:HIS:H	1.71	0.55
1:E:2978:GLU:HB2	1:E:3053:ARG:HH11	1.72	0.55
1:E:4749:GLU:HG3	1:E:4753:HIS:NE2	2.21	0.55
1:G:897:ARG:HD3	1:G:905:PRO:HD3	1.89	0.55
1:G:2039:LEU:HB3	1:G:2044:ILE:HB	1.89	0.55
1:J:2527:LEU:HD11	1:J:2582:MET:HB3	1.88	0.55
1:J:5012:LYS:O	1:J:5016:GLU:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:157:ARG:NH2	1:B:162:LYS:O	2.37	0.55
1:B:232:THR:HG21	1:B:252:VAL:HG11	1.88	0.55
1:B:2978:GLU:HB2	1:B:3053:ARG:HH11	1.72	0.55
1:B:4735:GLU:O	1:B:4739:GLU:HG2	2.07	0.55
1:E:2747:ILE:HD12	1:E:2817:ILE:HD13	1.89	0.55
1:E:4999:ASP:HB2	1:E:5002:GLU:HG2	1.89	0.55
1:G:4240:ASP:OD1	1:G:4675:LYS:NZ	2.40	0.55
1:G:4749:GLU:HG3	1:G:4753:HIS:NE2	2.21	0.55
1:J:897:ARG:HD3	1:J:905:PRO:HD3	1.89	0.55
1:J:1041:GLN:O	1:J:1045:THR:HG23	2.07	0.55
1:J:4584:ASP:HA	1:J:4627:MET:HA	1.89	0.55
1:J:4673:ARG:NH2	1:J:4702:ASP:OD1	2.39	0.55
1:B:489:ASN:OD1	1:B:493:ARG:NH1	2.40	0.55
1:B:4999:ASP:HB2	1:B:5002:GLU:HG2	1.89	0.55
1:E:5009:TYR:HA	1:E:5012:LYS:HE3	1.87	0.55
1:G:4584:ASP:HA	1:G:4627:MET:HA	1.89	0.55
1:J:2238:TYR:O	1:J:2242:ILE:HG12	2.06	0.55
2:A:29:MET:HA	2:A:35:LYS:HA	1.89	0.55
2:H:29:MET:HA	2:H:35:LYS:HA	1.89	0.55
1:B:4584:ASP:HA	1:B:4627:MET:HA	1.89	0.55
1:E:1041:GLN:O	1:E:1045:THR:HG23	2.07	0.55
1:E:1240:LYS:HE3	1:E:1242:LEU:HB3	1.87	0.55
1:J:247:TYR:HE2	1:J:359:TYR:HA	1.72	0.55
1:J:1102:VAL:HG11	1:J:1149:VAL:HG11	1.87	0.55
1:J:2364:PHE:HD1	1:J:2429:LEU:HD21	1.71	0.55
1:B:897:ARG:HD3	1:B:905:PRO:HD3	1.89	0.54
1:E:355:LEU:HB3	1:E:378:LEU:HB3	1.88	0.54
1:E:1155:LEU:HD22	1:E:1184:ILE:HG12	1.88	0.54
1:E:1504:GLY:O	1:E:1532:ASN:ND2	2.40	0.54
1:E:4584:ASP:HA	1:E:4627:MET:HA	1.89	0.54
1:G:952:LYS:HA	1:G:971:ASP:H	1.72	0.54
1:G:2978:GLU:HB2	1:G:3053:ARG:HH11	1.72	0.54
1:J:952:LYS:HA	1:J:971:ASP:H	1.72	0.54
1:J:1504:GLY:O	1:J:1532:ASN:ND2	2.40	0.54
1:J:2039:LEU:HB3	1:J:2044:ILE:HB	1.89	0.54
1:J:2464:ASP:OD1	1:J:2465:ASP:N	2.40	0.54
1:B:4749:GLU:HG3	1:B:4753:HIS:NE2	2.21	0.54
1:B:5012:LYS:O	1:B:5016:GLU:HG2	2.07	0.54
1:E:37:LEU:HA	1:E:49:LEU:HD23	1.90	0.54
1:E:103:TYR:OH	1:E:167:ASP:OD2	2.26	0.54
1:E:4077:PHE:O	1:E:4081:VAL:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:5012:LYS:O	1:E:5016:GLU:HG2	2.07	0.54
1:G:1041:GLN:O	1:G:1045:THR:HG23	2.07	0.54
1:J:4240:ASP:OD1	1:J:4675:LYS:NZ	2.40	0.54
1:B:883:ALA:HA	1:B:886:ARG:HE	1.70	0.54
1:B:1041:GLN:O	1:B:1045:THR:HG23	2.07	0.54
1:E:489:ASN:OD1	1:E:493:ARG:NH1	2.40	0.54
1:E:797:HIS:CE1	1:E:1626:TRP:CD1	2.95	0.54
1:E:3206:LEU:HB2	1:E:3246:LEU:HD23	1.88	0.54
1:E:4201:ASN:HB3	1:E:4993:MET:HE1	1.89	0.54
1:G:355:LEU:HB3	1:G:378:LEU:HB3	1.88	0.54
1:G:489:ASN:OD1	1:G:493:ARG:NH1	2.40	0.54
1:G:2883:HIS:HE1	1:G:2907:PRO:HA	1.73	0.54
1:G:4879:MET:HE1	1:J:4580:TYR:HB2	1.89	0.54
1:G:5012:LYS:O	1:G:5016:GLU:HG2	2.07	0.54
1:J:797:HIS:CE1	1:J:1626:TRP:CD1	2.95	0.54
1:J:2747:ILE:HD12	1:J:2817:ILE:HD13	1.89	0.54
1:J:2978:GLU:HB2	1:J:3053:ARG:HH11	1.72	0.54
1:B:37:LEU:HA	1:B:49:LEU:HD23	1.90	0.54
1:B:103:TYR:OH	1:B:167:ASP:OD2	2.26	0.54
1:B:1699:GLU:HG3	1:B:1810:LYS:HZ2	1.72	0.54
1:B:2883:HIS:HE1	1:B:2907:PRO:HA	1.73	0.54
1:B:4201:ASN:HB3	1:B:4993:MET:HE1	1.89	0.54
1:E:2131:LEU:HB3	1:E:3667:HIS:CE1	2.42	0.54
1:E:4735:GLU:O	1:E:4739:GLU:HG2	2.07	0.54
1:G:3206:LEU:HB2	1:G:3246:LEU:HD23	1.88	0.54
1:G:4077:PHE:O	1:G:4081:VAL:HG23	2.08	0.54
1:J:4201:ASN:HB3	1:J:4993:MET:HE1	1.89	0.54
1:G:103:TYR:OH	1:G:167:ASP:OD2	2.26	0.54
1:G:1155:LEU:HD22	1:G:1184:ILE:HG12	1.88	0.54
1:G:2626:LEU:HG	1:G:2640:PRO:HB3	1.88	0.54
1:J:37:LEU:HA	1:J:49:LEU:HD23	1.89	0.54
1:J:4131:ARG:HG3	1:J:4132:PHE:CD1	2.43	0.54
1:E:4826:ILE:O	1:E:4830:VAL:HG23	2.08	0.54
1:G:1462:MET:HA	1:G:1462:MET:HE3	1.90	0.54
1:J:232:THR:HG21	1:J:252:VAL:HG11	1.88	0.54
1:J:2131:LEU:HB3	1:J:3667:HIS:CE1	2.42	0.54
1:B:247:TYR:HE2	1:B:359:TYR:HA	1.72	0.54
1:E:69:LEU:HD21	1:E:101:LEU:HD11	1.90	0.54
1:E:2883:HIS:HE1	1:E:2907:PRO:HA	1.73	0.54
1:E:4085:ARG:NH1	1:E:4121:GLU:OE1	2.41	0.54
1:G:232:THR:HG21	1:G:252:VAL:HG11	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:815:VAL:O	1:G:1007:TYR:OH	2.24	0.54
1:G:4826:ILE:O	1:G:4830:VAL:HG23	2.08	0.54
1:J:248:GLU:HB2	1:J:373:LYS:HA	1.89	0.54
1:J:613:ALA:HB2	1:J:1676:LEU:HD12	1.90	0.54
1:J:3974:THR:O	1:J:3978:GLN:HG2	2.08	0.54
2:I:29:MET:HA	2:I:35:LYS:HA	1.89	0.54
3:F:90:THR:HG23	3:F:124:THR:HA	1.90	0.54
1:B:459:LEU:HB3	1:B:463:GLU:HG3	1.90	0.54
1:E:232:THR:HG21	1:E:252:VAL:HG11	1.89	0.54
1:E:3967:GLU:CA	1:E:3970:GLN:HG2	2.34	0.54
1:G:1095:VAL:O	1:G:1145:SER:OG	2.25	0.54
1:G:2992:GLU:O	1:G:2996:LYS:HG2	2.08	0.54
1:G:5013:MET:HE3	1:G:5018:CYS:HB3	1.90	0.54
1:J:879:HIS:CE1	1:J:921:ASN:HD22	2.26	0.54
1:J:2883:HIS:HE1	1:J:2907:PRO:HA	1.73	0.54
1:J:2992:GLU:O	1:J:2996:LYS:HG2	2.08	0.54
1:J:4999:ASP:HB2	1:J:5002:GLU:HG2	1.89	0.54
3:C:90:THR:HG23	3:C:124:THR:HA	1.90	0.54
1:B:69:LEU:HD21	1:B:101:LEU:HD11	1.90	0.54
1:B:797:HIS:CE1	1:B:1626:TRP:CD1	2.95	0.54
1:B:4767:TRP:O	1:B:4771:ILE:HG12	2.08	0.54
1:E:897:ARG:HD3	1:E:905:PRO:HD3	1.89	0.54
1:E:1462:MET:HA	1:E:1462:MET:HE3	1.90	0.54
1:E:3923:LEU:HD21	1:E:3962:PHE:CE1	2.43	0.54
1:E:4240:ASP:OD1	1:E:4675:LYS:NZ	2.40	0.54
1:G:179:TYR:H	1:G:195:PHE:HA	1.73	0.54
1:G:3399:SER:O	1:G:3403:ARG:HG3	2.08	0.54
1:G:4085:ARG:NH1	1:G:4121:GLU:OE1	2.41	0.54
1:J:69:LEU:HD21	1:J:101:LEU:HD11	1.90	0.54
1:J:103:TYR:OH	1:J:167:ASP:OD2	2.26	0.54
1:J:179:TYR:H	1:J:195:PHE:HA	1.73	0.54
1:B:1462:MET:HA	1:B:1462:MET:HE3	1.90	0.54
1:B:2747:ILE:HD12	1:B:2817:ILE:HD13	1.89	0.54
1:B:4843:LEU:HD22	1:G:4823:LEU:HD22	1.90	0.54
1:E:179:TYR:H	1:E:195:PHE:HA	1.73	0.54
1:E:1232:ARG:NH2	1:E:1828:ASP:O	2.36	0.54
1:E:3974:THR:O	1:E:3978:GLN:HG2	2.08	0.54
1:E:4675:LYS:O	1:E:4679:ARG:HG2	2.08	0.54
1:E:4767:TRP:O	1:E:4771:ILE:HG12	2.08	0.54
1:G:365:LYS:O	1:G:369:LEU:HG	2.08	0.54
1:J:4077:PHE:O	1:J:4081:VAL:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:248:GLU:HA	1:B:372:LEU:O	2.08	0.53
1:B:4077:PHE:O	1:B:4081:VAL:HG23	2.08	0.53
1:E:70:GLU:HG2	1:E:71:GLN:HG3	1.90	0.53
1:E:365:LYS:O	1:E:369:LEU:HG	2.07	0.53
1:E:2827:ARG:NE	1:E:2935:TYR:OH	2.27	0.53
1:E:3940:LYS:O	1:E:4002:LYS:NZ	2.36	0.53
1:G:157:ARG:NH2	1:G:162:LYS:O	2.37	0.53
1:G:613:ALA:HB2	1:G:1676:LEU:HD12	1.90	0.53
1:J:960:MET:HB3	1:J:966:LYS:HB2	1.90	0.53
1:B:1042:ALA:O	1:B:1045:THR:OG1	2.22	0.53
1:B:1095:VAL:HB	1:B:1199:VAL:HG23	1.90	0.53
1:B:1679:ASN:ND2	1:B:1797:ARG:O	2.37	0.53
1:B:2924:GLN:O	1:B:2928:LYS:HG2	2.08	0.53
1:B:3399:SER:O	1:B:3403:ARG:HG3	2.08	0.53
1:E:2039:LEU:HB3	1:E:2044:ILE:HB	1.89	0.53
1:E:2924:GLN:O	1:E:2928:LYS:HG2	2.09	0.53
1:E:4796:MET:N	1:E:4796:MET:HE2	2.23	0.53
1:G:2806:ARG:HG3	1:G:2810:LYS:HZ3	1.74	0.53
1:G:3974:THR:O	1:G:3978:GLN:HG2	2.08	0.53
1:J:489:ASN:OD1	1:J:493:ARG:NH1	2.40	0.53
1:J:2626:LEU:HG	1:J:2640:PRO:HB3	1.88	0.53
1:J:3962:PHE:CZ	1:J:4023:MET:HE1	2.44	0.53
1:J:4207:MET:HE1	1:J:4209:GLN:HB2	1.90	0.53
2:D:29:MET:HA	2:D:35:LYS:HA	1.89	0.53
1:B:960:MET:HB3	1:B:966:LYS:HB2	1.90	0.53
1:B:2806:ARG:HG3	1:B:2810:LYS:HZ3	1.73	0.53
1:B:4131:ARG:HG3	1:B:4132:PHE:CD1	2.43	0.53
1:E:459:LEU:HB3	1:E:463:GLU:HG3	1.90	0.53
1:E:2464:ASP:OD1	1:E:2465:ASP:N	2.40	0.53
1:E:3085:PRO:HG2	1:E:3088:VAL:HB	1.91	0.53
1:G:37:LEU:HA	1:G:49:LEU:HD23	1.90	0.53
1:G:69:LEU:HD21	1:G:101:LEU:HD11	1.90	0.53
1:J:2505:PHE:O	1:J:2509:VAL:HG22	2.08	0.53
1:J:2806:ARG:HG3	1:J:2810:LYS:HZ3	1.73	0.53
1:J:2924:GLN:O	1:J:2928:LYS:HG2	2.08	0.53
1:J:3399:SER:O	1:J:3403:ARG:HG3	2.08	0.53
1:J:4767:TRP:O	1:J:4771:ILE:HG12	2.08	0.53
1:J:4942:GLU:O	1:J:4946:GLN:HG3	2.09	0.53
3:M:90:THR:HG23	3:M:124:THR:HA	1.90	0.53
1:B:1504:GLY:O	1:B:1532:ASN:ND2	2.40	0.53
1:B:2248:ARG:HG3	1:B:2286:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2505:PHE:O	1:B:2509:VAL:HG22	2.08	0.53
1:B:4823:LEU:HD22	1:E:4843:LEU:HD22	1.91	0.53
1:E:151:HIS:HB2	1:E:170:ILE:HB	1.90	0.53
1:E:4131:ARG:HG3	1:E:4132:PHE:CD1	2.43	0.53
1:G:1002:ALA:HB1	3:M:1:GLN:HE21	1.74	0.53
1:G:1095:VAL:HB	1:G:1199:VAL:HG23	1.90	0.53
1:G:2464:ASP:OD1	1:G:2465:ASP:N	2.40	0.53
1:G:2747:ILE:HD12	1:G:2817:ILE:HD13	1.89	0.53
1:G:3887:PHE:O	1:G:3891:LEU:HG	2.07	0.53
1:G:4131:ARG:HG3	1:G:4132:PHE:CD1	2.43	0.53
1:J:1804:LEU:HD12	1:J:1853:ILE:HG13	1.91	0.53
1:J:3967:GLU:CA	1:J:3970:GLN:HG2	2.34	0.53
3:K:90:THR:HG23	3:K:124:THR:HA	1.90	0.53
1:B:952:LYS:HA	1:B:971:ASP:H	1.72	0.53
1:G:247:TYR:CE2	1:G:359:TYR:HA	2.44	0.53
1:J:4085:ARG:NH1	1:J:4121:GLU:OE1	2.41	0.53
1:B:3974:THR:O	1:B:3978:GLN:HG2	2.08	0.53
1:B:4675:LYS:O	1:B:4679:ARG:HG2	2.08	0.53
1:E:613:ALA:HB2	1:E:1676:LEU:HD12	1.90	0.53
1:E:960:MET:HB3	1:E:966:LYS:HB2	1.90	0.53
1:E:2992:GLU:O	1:E:2996:LYS:HG2	2.08	0.53
1:E:4243:PHE:O	1:E:4247:ILE:HG13	2.09	0.53
1:G:2505:PHE:O	1:G:2509:VAL:HG22	2.08	0.53
1:G:3037:GLU:HB2	1:G:3085:PRO:HG3	1.91	0.53
1:J:1079:LYS:HA	1:J:1189:LEU:HD11	1.91	0.53
1:J:1462:MET:HA	1:J:1462:MET:HE3	1.90	0.53
1:J:4796:MET:HE2	1:J:4796:MET:N	2.23	0.53
1:B:909:ASN:HA	1:B:965:TYR:HA	1.91	0.53
1:B:1433:TYR:HE2	1:B:1577:ALA:HB3	1.74	0.53
1:B:2110:TYR:HB2	1:B:3695:PRO:HD2	1.91	0.53
1:B:4243:PHE:CE2	1:B:4247:ILE:HD11	2.44	0.53
1:B:4826:ILE:O	1:B:4830:VAL:HG23	2.08	0.53
1:E:1530:THR:HA	1:E:1535:GLU:HA	1.91	0.53
1:E:3962:PHE:CZ	1:E:4023:MET:HE1	2.44	0.53
1:G:80:GLU:OE1	1:J:3935:TRP:NE1	2.33	0.53
1:G:1297:PHE:CD2	1:G:1522:LEU:HA	2.44	0.53
1:G:4201:ASN:HB3	1:G:4993:MET:HE1	1.89	0.53
1:G:4243:PHE:CE2	1:G:4247:ILE:HD11	2.44	0.53
1:G:4943:LEU:O	1:G:4947:GLN:HG2	2.09	0.53
1:J:248:GLU:HA	1:J:372:LEU:O	2.08	0.53
1:J:1297:PHE:CD2	1:J:1522:LEU:HA	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1530:THR:HA	1:J:1535:GLU:HA	1.91	0.53
1:J:4675:LYS:O	1:J:4679:ARG:HG2	2.08	0.53
1:B:2992:GLU:O	1:B:2996:LYS:HG2	2.08	0.53
1:B:3037:GLU:HB2	1:B:3085:PRO:HG3	1.91	0.53
1:B:3923:LEU:HD21	1:B:3962:PHE:CE1	2.44	0.53
1:B:3940:LYS:O	1:B:4002:LYS:NZ	2.36	0.53
1:E:1437:VAL:HB	1:E:1516:ILE:HB	1.91	0.53
1:E:2866:THR:O	1:E:2928:LYS:NZ	2.22	0.53
1:E:4207:MET:HE1	1:E:4209:GLN:HB2	1.90	0.53
1:G:4675:LYS:O	1:G:4679:ARG:HG2	2.08	0.53
1:B:613:ALA:HB2	1:B:1676:LEU:HD12	1.90	0.53
1:B:1079:LYS:HA	1:B:1189:LEU:HD11	1.91	0.53
1:B:3085:PRO:HG2	1:B:3088:VAL:HB	1.91	0.53
1:B:3962:PHE:CZ	1:B:4023:MET:HE1	2.44	0.53
1:B:4085:ARG:NH1	1:B:4121:GLU:OE1	2.41	0.53
1:E:1297:PHE:CD2	1:E:1522:LEU:HA	2.44	0.53
1:E:3900:GLN:HB3	1:E:3976:ASN:ND2	2.24	0.53
1:E:4942:GLU:O	1:E:4946:GLN:HG3	2.09	0.53
1:G:960:MET:HB3	1:G:966:LYS:HB2	1.90	0.53
1:G:1079:LYS:HA	1:G:1189:LEU:HD11	1.91	0.53
1:G:4104:THR:O	1:G:4108:ILE:HG12	2.09	0.53
1:J:815:VAL:O	1:J:1007:TYR:OH	2.24	0.53
1:J:1042:ALA:O	1:J:1045:THR:OG1	2.22	0.53
1:J:1437:VAL:HB	1:J:1516:ILE:HB	1.91	0.53
1:J:3923:LEU:HD21	1:J:3962:PHE:CE1	2.44	0.53
1:B:179:TYR:H	1:B:195:PHE:HA	1.73	0.53
1:B:3729:MET:HE2	1:B:3800:LEU:HD11	1.91	0.53
1:B:4796:MET:HE2	1:B:4796:MET:N	2.24	0.53
1:B:4943:LEU:O	1:B:4947:GLN:HG2	2.09	0.53
1:B:5013:MET:HE3	1:B:5018:CYS:HB3	1.90	0.53
1:E:1079:LYS:HA	1:E:1189:LEU:HD11	1.91	0.53
1:E:2248:ARG:HG3	1:E:2286:LEU:HD21	1.90	0.53
1:E:5013:MET:HE3	1:E:5018:CYS:HB3	1.90	0.53
1:G:909:ASN:HA	1:G:965:TYR:HA	1.91	0.53
1:G:1804:LEU:HD12	1:G:1853:ILE:HG13	1.91	0.53
1:J:3729:MET:HE2	1:J:3800:LEU:HD11	1.91	0.53
1:J:4243:PHE:CE2	1:J:4247:ILE:HD11	2.44	0.53
1:J:4826:ILE:O	1:J:4830:VAL:HG23	2.08	0.53
1:B:80:GLU:OE1	1:G:3935:TRP:NE1	2.33	0.52
1:B:879:HIS:CE1	1:B:921:ASN:HD22	2.27	0.52
1:B:3547:GLU:O	1:B:3551:GLU:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3980:LEU:O	1:B:3986:TRP:NE1	2.43	0.52
1:B:4240:ASP:OD1	1:B:4675:LYS:NZ	2.40	0.52
1:E:870:ILE:HD12	1:E:1051:TYR:CZ	2.45	0.52
1:E:2505:PHE:O	1:E:2509:VAL:HG22	2.08	0.52
1:G:459:LEU:HB3	1:G:463:GLU:HG3	1.90	0.52
1:G:1433:TYR:HB3	1:G:1575:LEU:HD23	1.91	0.52
1:G:1679:ASN:ND2	1:G:1797:ARG:O	2.37	0.52
1:G:2110:TYR:HB2	1:G:3695:PRO:HD2	1.91	0.52
1:G:2861:ASP:HB2	1:G:2925:GLU:HG2	1.91	0.52
1:G:2924:GLN:O	1:G:2928:LYS:HG2	2.08	0.52
1:G:3085:PRO:HG2	1:G:3088:VAL:HB	1.91	0.52
1:G:3547:GLU:O	1:G:3551:GLU:HG2	2.10	0.52
1:G:4843:LEU:HD22	1:J:4823:LEU:HD22	1.90	0.52
1:J:459:LEU:HB3	1:J:463:GLU:HG3	1.90	0.52
1:J:2861:ASP:HB2	1:J:2925:GLU:HG2	1.91	0.52
1:B:56:GLN:O	1:B:308:HIS:HA	2.10	0.52
1:B:151:HIS:HB2	1:B:170:ILE:HB	1.90	0.52
1:B:3900:GLN:HB3	1:B:3976:ASN:ND2	2.24	0.52
1:E:952:LYS:HA	1:E:971:ASP:H	1.72	0.52
1:E:1573:MET:SD	1:E:1574:PRO:HD2	2.50	0.52
1:E:3399:SER:O	1:E:3403:ARG:HG3	2.08	0.52
1:G:3729:MET:HE2	1:G:3800:LEU:HD11	1.91	0.52
1:G:4207:MET:HE1	1:G:4209:GLN:HB2	1.90	0.52
1:G:4767:TRP:O	1:G:4771:ILE:HG12	2.08	0.52
1:J:667:MET:HE1	1:J:743:VAL:HG22	1.91	0.52
1:J:993:HIS:NE2	1:J:1022:VAL:O	2.41	0.52
1:J:3900:GLN:HB3	1:J:3976:ASN:ND2	2.24	0.52
1:J:4243:PHE:O	1:J:4247:ILE:HG13	2.09	0.52
1:J:5013:MET:HE3	1:J:5018:CYS:HB3	1.90	0.52
1:B:3078:ARG:HG3	1:B:3152:PHE:CD1	2.44	0.52
1:E:102:LEU:HD12	1:E:160:GLY:HA2	1.92	0.52
1:E:1433:TYR:HE2	1:E:1577:ALA:HB3	1.74	0.52
1:E:1808:ARG:HD3	1:E:1853:ILE:HG22	1.92	0.52
1:E:3729:MET:HE2	1:E:3800:LEU:HD11	1.91	0.52
1:E:4943:LEU:O	1:E:4947:GLN:HG2	2.09	0.52
1:G:667:MET:HE1	1:G:743:VAL:HG22	1.92	0.52
1:J:102:LEU:HD12	1:J:160:GLY:HA2	1.92	0.52
1:J:870:ILE:HD12	1:J:1051:TYR:CZ	2.45	0.52
1:J:2893:GLU:O	1:J:2897:LYS:HG2	2.10	0.52
1:B:601:ASP:HA	1:B:1668:ARG:HH22	1.75	0.52
1:B:667:MET:HE1	1:B:743:VAL:HG22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1297:PHE:CD2	1:B:1522:LEU:HA	2.44	0.52
1:B:3031:ALA:O	1:B:3036:LYS:NZ	2.27	0.52
1:B:4243:PHE:O	1:B:4247:ILE:HG13	2.09	0.52
1:E:157:ARG:NH2	1:E:162:LYS:O	2.37	0.52
1:E:1002:ALA:HB1	3:F:1:GLN:HE21	1.74	0.52
1:E:1095:VAL:HB	1:E:1199:VAL:HG23	1.90	0.52
1:E:2806:ARG:HG3	1:E:2810:LYS:HZ3	1.73	0.52
1:E:3078:ARG:HG3	1:E:3152:PHE:CD1	2.44	0.52
1:E:3440:GLU:HA	1:E:3443:ILE:HG12	1.91	0.52
1:G:56:GLN:O	1:G:308:HIS:HA	2.10	0.52
1:G:2248:ARG:HG3	1:G:2286:LEU:HD21	1.90	0.52
1:G:4242:ILE:HD12	6:G:5103:CFF:H142	1.92	0.52
1:J:56:GLN:O	1:J:308:HIS:HA	2.10	0.52
1:J:4104:THR:O	1:J:4108:ILE:HG12	2.09	0.52
1:B:70:GLU:HG2	1:B:71:GLN:HG3	1.90	0.52
1:E:1432:THR:HG23	1:E:1572:ILE:HG23	1.92	0.52
1:E:2380:ILE:HG21	1:E:2469:ILE:HD11	1.92	0.52
1:E:3037:GLU:HB2	1:E:3085:PRO:HG3	1.91	0.52
1:E:4092:ASP:HA	1:E:4095:LYS:HG2	1.92	0.52
1:G:797:HIS:CE1	1:G:1626:TRP:CD1	2.95	0.52
1:G:1433:TYR:HE2	1:G:1577:ALA:HB3	1.74	0.52
1:G:4243:PHE:O	1:G:4247:ILE:HG13	2.09	0.52
1:G:4761:PRO:HB2	1:G:4766:THR:HG21	1.91	0.52
1:J:70:GLU:HG2	1:J:71:GLN:HG3	1.90	0.52
1:J:4092:ASP:HA	1:J:4095:LYS:HG2	1.92	0.52
1:B:4942:GLU:O	1:B:4946:GLN:HG3	2.09	0.52
1:E:56:GLN:O	1:E:308:HIS:HA	2.10	0.52
1:E:1804:LEU:HD12	1:E:1853:ILE:HG13	1.91	0.52
1:E:3891:LEU:O	1:E:3896:ASN:ND2	2.36	0.52
1:E:4823:LEU:HD22	1:J:4843:LEU:HD22	1.90	0.52
1:G:3051:ARG:HA	1:G:3131:TYR:CZ	2.45	0.52
1:J:1433:TYR:HB3	1:J:1575:LEU:HD23	1.91	0.52
1:J:2110:TYR:HB2	1:J:3695:PRO:HD2	1.91	0.52
1:J:3037:GLU:HB2	1:J:3085:PRO:HG3	1.91	0.52
1:J:3980:LEU:O	1:J:3986:TRP:NE1	2.43	0.52
3:C:105:ASN:HD21	3:C:107:TRP:HB3	1.75	0.52
1:B:102:LEU:HD12	1:B:160:GLY:HA2	1.92	0.52
1:B:2380:ILE:HG21	1:B:2469:ILE:HD11	1.92	0.52
1:B:3440:GLU:HA	1:B:3443:ILE:HG12	1.91	0.52
1:E:601:ASP:HA	1:E:1668:ARG:HH22	1.75	0.52
1:E:3384:LYS:NZ	1:E:3386:GLU:OE1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:879:HIS:CE1	1:G:921:ASN:HD22	2.28	0.52
1:G:4796:MET:HE2	1:G:4796:MET:N	2.24	0.52
1:J:151:HIS:HB2	1:J:170:ILE:HB	1.90	0.52
1:J:1679:ASN:ND2	1:J:1797:ARG:O	2.37	0.52
1:J:1860:LYS:O	1:J:1864:LYS:HG2	2.10	0.52
1:B:1230:MET:HE1	1:B:1827:ARG:HB2	1.91	0.52
1:B:1808:ARG:HD3	1:B:1853:ILE:HG22	1.92	0.52
1:E:28:VAL:HB	1:E:33:LEU:HD23	1.92	0.52
1:E:2893:GLU:O	1:E:2897:LYS:HG2	2.10	0.52
1:E:3674:ILE:HG13	1:E:3732:SER:CB	2.40	0.52
1:G:1573:MET:SD	1:G:1574:PRO:HD2	2.49	0.52
1:J:1432:THR:HG23	1:J:1572:ILE:HG23	1.92	0.52
1:J:2095:GLN:HA	1:J:2127:GLN:OE1	2.10	0.52
1:J:3132:THR:HA	1:J:3136:LEU:HB2	1.92	0.52
1:J:3194:LEU:HA	1:J:3197:LEU:HG	1.92	0.52
1:J:3891:LEU:O	1:J:3896:ASN:ND2	2.36	0.52
1:B:28:VAL:HB	1:B:33:LEU:HD23	1.92	0.52
1:B:1433:TYR:HB3	1:B:1575:LEU:HD23	1.91	0.52
1:B:1437:VAL:HB	1:B:1516:ILE:HB	1.91	0.52
1:B:1573:MET:SD	1:B:1574:PRO:HD2	2.50	0.52
1:B:2559:LEU:O	1:B:2563:THR:HG23	2.10	0.52
1:B:3674:ILE:HG13	1:B:3732:SER:CB	2.40	0.52
1:B:4207:MET:HE1	1:B:4209:GLN:HB2	1.90	0.52
1:E:667:MET:HE1	1:E:743:VAL:HG22	1.92	0.52
1:E:1758:ARG:HH12	1:E:2037:ASP:HA	1.75	0.52
1:E:1860:LYS:O	1:E:1864:LYS:HG2	2.10	0.52
1:E:2110:TYR:HB2	1:E:3695:PRO:HD2	1.91	0.52
1:E:3036:LYS:HD2	1:E:3079:THR:HG21	1.92	0.52
1:E:4000:MET:HE1	1:E:4061:PHE:CD1	2.45	0.52
1:E:4104:THR:O	1:E:4108:ILE:HG12	2.09	0.52
1:E:4761:PRO:HB2	1:E:4766:THR:HG21	1.91	0.52
1:G:601:ASP:HA	1:G:1668:ARG:HH22	1.75	0.52
1:G:1437:VAL:HB	1:G:1516:ILE:HB	1.91	0.52
1:G:4942:GLU:O	1:G:4946:GLN:HG3	2.09	0.52
1:J:601:ASP:HA	1:J:1668:ARG:HH22	1.75	0.52
1:J:659:TYR:HB2	1:J:1017:ARG:HH12	1.75	0.52
1:J:858:THR:HG21	1:J:931:THR:HG22	1.92	0.52
1:J:3085:PRO:HG2	1:J:3088:VAL:HB	1.91	0.52
1:J:3674:ILE:HG13	1:J:3732:SER:CB	2.40	0.52
1:J:4092:ASP:OD1	1:J:4093:PHE:N	2.43	0.52
1:B:858:THR:HG21	1:B:931:THR:HG22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:870:ILE:HD12	1:B:1051:TYR:CZ	2.45	0.52
1:B:1758:ARG:HH12	1:B:2037:ASP:HA	1.75	0.52
1:B:2861:ASP:HB2	1:B:2925:GLU:HG2	1.91	0.52
1:B:4761:PRO:HB2	1:B:4766:THR:HG21	1.91	0.52
1:E:1694:LEU:HB3	1:E:1715:LEU:HD12	1.92	0.52
1:E:3051:ARG:HA	1:E:3131:TYR:CZ	2.45	0.52
1:E:4092:ASP:OD1	1:E:4093:PHE:N	2.43	0.52
1:E:4243:PHE:CE2	1:E:4247:ILE:HD11	2.44	0.52
1:E:5014:TYR:O	1:E:5017:ARG:NH2	2.43	0.52
1:G:1758:ARG:HH12	1:G:2037:ASP:HA	1.75	0.52
1:G:2893:GLU:O	1:G:2897:LYS:HG2	2.10	0.52
1:J:76:ARG:O	1:J:79:GLN:HG3	2.10	0.52
1:J:1573:MET:SD	1:J:1574:PRO:HD2	2.50	0.52
1:J:1758:ARG:HH12	1:J:2037:ASP:HA	1.75	0.52
1:J:4943:LEU:O	1:J:4947:GLN:HG2	2.09	0.52
1:J:5014:TYR:HD1	1:J:5019:TRP:HE1	1.58	0.52
1:B:72:SER:O	1:B:99:ARG:NH1	2.43	0.51
1:B:904:HIS:CD2	1:B:907:LEU:H	2.27	0.51
1:B:1464:PHE:HA	1:B:1468:LYS:HD2	1.92	0.51
1:B:4104:THR:O	1:B:4108:ILE:HG12	2.09	0.51
1:E:248:GLU:HA	1:E:372:LEU:O	2.11	0.51
1:E:2806:ARG:HH11	1:E:2810:LYS:HG3	1.76	0.51
1:E:3683:GLN:HA	1:E:3686:GLU:HG2	1.92	0.51
1:G:2380:ILE:HG21	1:G:2469:ILE:HD11	1.92	0.51
1:G:3036:LYS:HD2	1:G:3079:THR:HG21	1.92	0.51
1:G:3163:VAL:HA	1:G:3166:TYR:HD2	1.75	0.51
1:J:667:MET:HE1	1:J:743:VAL:HG13	1.93	0.51
1:J:1095:VAL:HB	1:J:1199:VAL:HG23	1.90	0.51
1:J:2248:ARG:HG3	1:J:2286:LEU:HD21	1.90	0.51
1:J:3051:ARG:HA	1:J:3131:TYR:CZ	2.45	0.51
1:B:76:ARG:O	1:B:79:GLN:HG3	2.11	0.51
1:B:1860:LYS:O	1:B:1864:LYS:HG2	2.10	0.51
1:E:72:SER:O	1:E:99:ARG:NH1	2.43	0.51
1:G:714:TYR:HE1	1:G:1472:VAL:HG11	1.75	0.51
1:G:3674:ILE:HG13	1:G:3732:SER:CB	2.40	0.51
1:G:4092:ASP:HA	1:G:4095:LYS:HG2	1.92	0.51
1:J:526:LEU:HD11	1:J:540:PHE:HZ	1.75	0.51
1:J:663:TYR:HD1	1:J:747:CYS:HB3	1.75	0.51
1:J:747:CYS:HB2	1:J:808:TYR:CE2	2.46	0.51
1:J:1464:PHE:HA	1:J:1468:LYS:HD2	1.92	0.51
1:J:1808:ARG:HD3	1:J:1853:ILE:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3078:ARG:HG3	1:J:3152:PHE:CD1	2.44	0.51
1:B:1087:ARG:HB3	1:B:1223:PHE:CD1	2.46	0.51
1:B:1804:LEU:HD12	1:B:1853:ILE:HG13	1.91	0.51
1:B:4092:ASP:HA	1:B:4095:LYS:HG2	1.92	0.51
1:E:2861:ASP:HB2	1:E:2925:GLU:HG2	1.91	0.51
1:G:72:SER:O	1:G:99:ARG:NH1	2.43	0.51
1:G:102:LEU:HD12	1:G:160:GLY:HA2	1.92	0.51
1:G:2806:ARG:HH11	1:G:2810:LYS:HG3	1.76	0.51
1:G:2963:LEU:O	1:G:2967:MET:HG2	2.11	0.51
1:G:4092:ASP:OD1	1:G:4093:PHE:N	2.43	0.51
1:J:904:HIS:CD2	1:J:907:LEU:H	2.27	0.51
1:J:1433:TYR:HE2	1:J:1577:ALA:HB3	1.74	0.51
1:J:3440:GLU:HA	1:J:3443:ILE:HG12	1.91	0.51
1:J:4655:PHE:O	1:J:4659:ILE:HG12	2.11	0.51
1:J:4761:PRO:HB2	1:J:4766:THR:HG21	1.91	0.51
1:J:5014:TYR:O	1:J:5017:ARG:NH2	2.42	0.51
3:M:68:THR:O	3:M:80:LEU:HD12	2.10	0.51
1:B:993:HIS:NE2	1:B:1022:VAL:O	2.41	0.51
1:E:667:MET:HE1	1:E:743:VAL:HG13	1.93	0.51
1:E:3547:GLU:O	1:E:3551:GLU:HG2	2.10	0.51
1:E:4822:THR:O	1:E:4825:THR:OG1	2.23	0.51
1:G:70:GLU:HG2	1:G:71:GLN:HG3	1.90	0.51
1:G:663:TYR:HD1	1:G:747:CYS:HB3	1.75	0.51
1:G:920:TYR:HE1	3:M:99:ARG:HE	1.58	0.51
1:G:1530:THR:HA	1:G:1535:GLU:HA	1.91	0.51
1:G:3440:GLU:HA	1:G:3443:ILE:HG12	1.91	0.51
1:G:3887:PHE:CE2	1:G:3891:LEU:HD11	2.45	0.51
1:G:3967:GLU:CA	1:G:3970:GLN:HG2	2.36	0.51
1:J:2380:ILE:HG21	1:J:2469:ILE:HD11	1.92	0.51
1:J:3384:LYS:NZ	1:J:3386:GLU:OE1	2.43	0.51
1:J:4941:GLY:HA2	1:J:4944:ARG:HE	1.76	0.51
3:F:68:THR:O	3:F:80:LEU:HD12	2.10	0.51
1:B:1530:THR:HA	1:B:1535:GLU:HA	1.91	0.51
1:B:3051:ARG:HA	1:B:3131:TYR:CZ	2.45	0.51
1:B:3194:LEU:HA	1:B:3197:LEU:HG	1.92	0.51
1:B:4092:ASP:OD1	1:B:4093:PHE:N	2.43	0.51
1:B:4941:GLY:HA2	1:B:4944:ARG:HE	1.76	0.51
1:E:747:CYS:HB2	1:E:808:TYR:CE2	2.46	0.51
1:E:858:THR:HG21	1:E:931:THR:HG22	1.92	0.51
1:E:996:TRP:O	1:E:1000:ARG:HG2	2.11	0.51
1:E:1087:ARG:HB3	1:E:1223:PHE:CD1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4063:ASP:HB2	1:E:4067:LYS:HE3	1.93	0.51
1:G:151:HIS:HB2	1:G:170:ILE:HB	1.90	0.51
1:G:248:GLU:HB2	1:G:373:LYS:HA	1.91	0.51
1:G:747:CYS:HB2	1:G:808:TYR:CE2	2.46	0.51
1:G:1432:THR:HG23	1:G:1572:ILE:HG23	1.91	0.51
1:G:1694:LEU:HB3	1:G:1715:LEU:HD12	1.92	0.51
1:G:3078:ARG:HG3	1:G:3152:PHE:CD1	2.44	0.51
1:G:4655:PHE:O	1:G:4659:ILE:HG12	2.11	0.51
1:J:72:SER:O	1:J:99:ARG:NH1	2.43	0.51
1:J:790:ARG:HD2	1:J:1624:LEU:HB3	1.92	0.51
1:J:1230:MET:HE1	1:J:1827:ARG:HB2	1.91	0.51
1:J:3547:GLU:O	1:J:3551:GLU:HG2	2.10	0.51
1:J:4822:THR:O	1:J:4825:THR:OG1	2.23	0.51
1:B:526:LEU:HD11	1:B:540:PHE:HZ	1.75	0.51
1:B:747:CYS:HB2	1:B:808:TYR:CE2	2.46	0.51
1:B:2095:GLN:HA	1:B:2127:GLN:OE1	2.10	0.51
1:B:4655:PHE:O	1:B:4659:ILE:HG12	2.11	0.51
1:E:879:HIS:CE1	1:E:921:ASN:HD22	2.28	0.51
1:E:1492:CYS:SG	1:E:1493:TYR:N	2.84	0.51
1:E:3132:THR:HA	1:E:3136:LEU:HB2	1.92	0.51
1:E:3163:VAL:HA	1:E:3166:TYR:HD2	1.75	0.51
1:G:28:VAL:HB	1:G:33:LEU:HD23	1.92	0.51
1:G:526:LEU:HD11	1:G:540:PHE:HZ	1.75	0.51
1:G:659:TYR:HB2	1:G:1017:ARG:HH12	1.75	0.51
1:G:667:MET:HE1	1:G:743:VAL:HG13	1.93	0.51
1:G:870:ILE:HD12	1:G:1051:TYR:CZ	2.45	0.51
1:G:904:HIS:CD2	1:G:907:LEU:H	2.27	0.51
1:G:1230:MET:HE1	1:G:1827:ARG:HB2	1.92	0.51
1:G:3194:LEU:HA	1:G:3197:LEU:HG	1.92	0.51
1:G:4000:MET:HE1	1:G:4061:PHE:CD1	2.45	0.51
1:J:28:VAL:HB	1:J:33:LEU:HD23	1.92	0.51
1:J:996:TRP:O	1:J:1000:ARG:HG2	2.11	0.51
1:J:1492:CYS:SG	1:J:1493:TYR:N	2.84	0.51
1:J:1694:LEU:HB3	1:J:1715:LEU:HD12	1.92	0.51
1:J:3163:VAL:HA	1:J:3166:TYR:HD2	1.75	0.51
3:K:68:THR:O	3:K:80:LEU:HD12	2.10	0.51
1:B:1816:GLY:O	1:B:1820:ARG:HG2	2.11	0.51
1:B:2893:GLU:O	1:B:2897:LYS:HG2	2.10	0.51
1:B:4000:MET:HE1	1:B:4061:PHE:CD1	2.45	0.51
1:E:2381:GLU:O	1:E:2385:ARG:HG2	2.11	0.51
1:E:5014:TYR:HD1	1:E:5019:TRP:HE1	1.57	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:574:VAL:O	1:G:578:ILE:HG12	2.11	0.51
1:G:996:TRP:O	1:G:1000:ARG:HG2	2.11	0.51
1:G:3332:ALA:HB1	1:G:3335:MET:HE3	1.93	0.51
1:J:714:TYR:HE1	1:J:1472:VAL:HG11	1.75	0.51
1:J:909:ASN:HA	1:J:965:TYR:HA	1.91	0.51
1:J:2381:GLU:O	1:J:2385:ARG:HG2	2.11	0.51
1:J:2559:LEU:O	1:J:2563:THR:HG23	2.10	0.51
1:J:2806:ARG:HH11	1:J:2810:LYS:HG3	1.76	0.51
1:B:659:TYR:HB2	1:B:1017:ARG:HH12	1.75	0.51
1:B:714:TYR:HE1	1:B:1472:VAL:HG11	1.75	0.51
1:B:2963:LEU:O	1:B:2967:MET:HG2	2.11	0.51
1:B:3536:ALA:HB2	1:B:3553:LEU:HD21	1.93	0.51
1:B:3683:GLN:HA	1:B:3686:GLU:HG2	1.92	0.51
1:B:4063:ASP:HB2	1:B:4067:LYS:HE3	1.93	0.51
1:E:574:VAL:O	1:E:578:ILE:HG12	2.11	0.51
1:E:904:HIS:CD2	1:E:907:LEU:H	2.27	0.51
1:G:2559:LEU:O	1:G:2563:THR:HG23	2.10	0.51
1:G:3683:GLN:HA	1:G:3686:GLU:HG2	1.92	0.51
1:G:5014:TYR:HD1	1:G:5019:TRP:HE1	1.57	0.51
1:J:470:SER:HA	1:J:473:ASN:HD21	1.76	0.51
1:B:470:SER:HA	1:B:473:ASN:ND2	2.26	0.51
1:B:667:MET:HE1	1:B:743:VAL:HG13	1.93	0.51
1:B:996:TRP:O	1:B:1000:ARG:HG2	2.11	0.51
1:E:1433:TYR:HB3	1:E:1575:LEU:HD23	1.91	0.51
1:E:3980:LEU:O	1:E:3986:TRP:NE1	2.43	0.51
1:E:4941:GLY:HA2	1:E:4944:ARG:HE	1.76	0.51
1:G:1087:ARG:HB3	1:G:1223:PHE:CD1	2.46	0.51
1:G:1860:LYS:O	1:G:1864:LYS:HG2	2.10	0.51
1:G:2522:LEU:HB3	1:G:2527:LEU:HD23	1.93	0.51
1:G:3132:THR:HA	1:G:3136:LEU:HB2	1.92	0.51
1:J:157:ARG:NH2	1:J:162:LYS:O	2.37	0.51
1:J:4000:MET:HE1	1:J:4061:PHE:CD1	2.45	0.51
1:B:907:LEU:O	1:B:963:ASN:ND2	2.44	0.51
1:B:1432:THR:HG23	1:B:1572:ILE:HG23	1.92	0.51
1:E:470:SER:HA	1:E:473:ASN:ND2	2.26	0.51
1:E:663:TYR:HD1	1:E:747:CYS:HB3	1.75	0.51
1:E:1230:MET:HE1	1:E:1827:ARG:HB2	1.91	0.51
1:E:2777:TYR:CE2	1:E:2793:PRO:HD3	2.46	0.51
1:E:4651:THR:OG1	1:E:4803:HIS:NE2	2.32	0.51
1:G:76:ARG:O	1:G:79:GLN:HG3	2.11	0.51
1:G:470:SER:HA	1:G:473:ASN:HD21	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3093:ARG:O	1:G:3097:GLU:HG2	2.11	0.51
1:G:3769:ARG:O	1:G:3773:ARG:NH1	2.44	0.51
1:J:574:VAL:O	1:J:578:ILE:HG12	2.11	0.51
1:J:3332:ALA:HB1	1:J:3335:MET:HE3	1.93	0.51
3:C:68:THR:O	3:C:80:LEU:HD12	2.10	0.51
1:B:266:ARG:HG2	1:B:268:SER:H	1.76	0.50
1:B:1617:THR:HG22	1:B:1628:VAL:HG13	1.93	0.50
1:B:2206:THR:O	1:B:2210:VAL:HG23	2.11	0.50
1:B:2777:TYR:CE2	1:B:2793:PRO:HD3	2.46	0.50
1:E:76:ARG:O	1:E:79:GLN:HG3	2.11	0.50
1:E:526:LEU:HD11	1:E:540:PHE:HZ	1.75	0.50
1:E:659:TYR:HB2	1:E:1017:ARG:HH12	1.75	0.50
1:E:897:ARG:HB3	3:F:58:ASN:OD1	2.11	0.50
1:E:909:ASN:HA	1:E:965:TYR:HA	1.91	0.50
1:E:1042:ALA:O	1:E:1045:THR:OG1	2.22	0.50
1:E:1816:GLY:O	1:E:1820:ARG:HG2	2.11	0.50
1:E:2668:SER:HB3	1:E:2671:GLU:HG3	1.93	0.50
1:E:3093:ARG:O	1:E:3097:GLU:HG2	2.11	0.50
1:E:4581:LYS:HE2	1:E:4632:LEU:HD22	1.94	0.50
1:G:2095:GLN:HA	1:G:2127:GLN:OE1	2.10	0.50
1:G:2381:GLU:O	1:G:2385:ARG:HG2	2.11	0.50
1:G:4941:GLY:HA2	1:G:4944:ARG:HE	1.76	0.50
1:J:1858:ASP:O	1:J:1862:ILE:HG13	2.12	0.50
1:J:2963:LEU:O	1:J:2967:MET:HG2	2.11	0.50
1:J:3093:ARG:O	1:J:3097:GLU:HG2	2.11	0.50
1:J:3457:ASN:O	1:J:3461:GLN:HG2	2.11	0.50
1:B:548:VAL:HG21	1:B:582:HIS:HD2	1.76	0.50
1:B:790:ARG:HD2	1:B:1624:LEU:HB3	1.92	0.50
1:B:2806:ARG:HH11	1:B:2810:LYS:HG3	1.76	0.50
1:B:3384:LYS:NZ	1:B:3386:GLU:OE1	2.43	0.50
1:E:714:TYR:HE1	1:E:1472:VAL:HG11	1.75	0.50
1:E:1617:THR:HG22	1:E:1628:VAL:HG13	1.94	0.50
1:E:2013:LYS:NZ	1:E:3661:TRP:O	2.44	0.50
1:E:2095:GLN:HA	1:E:2127:GLN:OE1	2.10	0.50
1:E:2479:LEU:HA	1:E:2541:PHE:HZ	1.76	0.50
1:E:2559:LEU:O	1:E:2563:THR:HG23	2.10	0.50
1:E:3457:ASN:O	1:E:3461:GLN:HG2	2.11	0.50
1:E:4655:PHE:O	1:E:4659:ILE:HG12	2.11	0.50
1:G:3457:ASN:O	1:G:3461:GLN:HG2	2.11	0.50
1:J:1159:THR:HG22	1:J:1180:ARG:HA	1.94	0.50
1:J:2380:ILE:O	1:J:2384:ILE:HG13	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2816:MET:HB3	1:J:2878:LEU:HD13	1.94	0.50
1:J:3683:GLN:HA	1:J:3686:GLU:HG2	1.92	0.50
1:B:590:LEU:HG	1:B:599:VAL:HG11	1.93	0.50
1:B:1159:THR:HG22	1:B:1180:ARG:HA	1.93	0.50
1:B:2668:SER:HB3	1:B:2671:GLU:HG3	1.93	0.50
1:B:2816:MET:HB3	1:B:2878:LEU:HD13	1.94	0.50
1:B:3036:LYS:HD2	1:B:3079:THR:HG21	1.92	0.50
1:B:3163:VAL:HA	1:B:3166:TYR:HD2	1.75	0.50
1:E:3194:LEU:HA	1:E:3197:LEU:HG	1.92	0.50
1:G:792:LEU:HD22	1:G:799:GLU:H	1.77	0.50
1:G:993:HIS:NE2	1:G:1022:VAL:O	2.41	0.50
1:G:1617:THR:HG22	1:G:1628:VAL:HG13	1.93	0.50
1:G:1808:ARG:HD3	1:G:1853:ILE:HG22	1.92	0.50
1:G:3034:LYS:HA	1:G:3037:GLU:HG3	1.94	0.50
1:G:3354:LEU:HB2	1:G:3415:TYR:CE2	2.47	0.50
1:J:792:LEU:HD22	1:J:799:GLU:H	1.77	0.50
1:J:2879:ALA:HA	1:J:2882:TYR:CD2	2.47	0.50
1:J:3034:LYS:HA	1:J:3037:GLU:HG3	1.94	0.50
1:J:3573:MET:O	1:J:3577:ARG:HG2	2.12	0.50
1:B:229:GLU:HA	1:B:249:GLY:HA3	1.92	0.50
1:B:1492:CYS:SG	1:B:1493:TYR:N	2.84	0.50
1:B:3921:ASP:O	1:B:3925:ARG:HG3	2.12	0.50
1:B:3935:TRP:NE1	1:E:80:GLU:OE1	2.33	0.50
1:E:790:ARG:HD2	1:E:1624:LEU:HB3	1.92	0.50
1:E:1464:PHE:HA	1:E:1468:LYS:HD2	1.92	0.50
1:E:2206:THR:O	1:E:2210:VAL:HG23	2.11	0.50
1:E:2380:ILE:O	1:E:2384:ILE:HG13	2.11	0.50
1:E:2522:LEU:HB3	1:E:2527:LEU:HD23	1.93	0.50
1:E:2645:THR:HB	1:E:2702:CYS:HA	1.93	0.50
1:E:2816:MET:HB3	1:E:2878:LEU:HD13	1.94	0.50
1:G:1816:GLY:O	1:G:1820:ARG:HG2	2.11	0.50
1:G:2777:TYR:CE2	1:G:2793:PRO:HD3	2.46	0.50
1:G:3573:MET:O	1:G:3577:ARG:HG2	2.12	0.50
1:J:229:GLU:HA	1:J:249:GLY:HA3	1.92	0.50
1:J:470:SER:HA	1:J:473:ASN:ND2	2.26	0.50
1:J:548:VAL:HG21	1:J:582:HIS:HD2	1.76	0.50
1:J:1816:GLY:O	1:J:1820:ARG:HG2	2.11	0.50
1:J:3036:LYS:HD2	1:J:3079:THR:HG21	1.92	0.50
1:J:3354:LEU:HB2	1:J:3415:TYR:CE2	2.47	0.50
1:J:3769:ARG:O	1:J:3773:ARG:NH1	2.44	0.50
1:J:3839:CYS:O	1:J:3925:ARG:NH2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:105:ASN:HD21	3:F:107:TRP:HB3	1.77	0.50
1:B:50:GLU:O	1:B:52:THR:HG23	2.12	0.50
1:B:1727:ARG:O	1:B:1731:LEU:HG	2.12	0.50
1:B:2381:GLU:O	1:B:2385:ARG:HG2	2.11	0.50
1:B:4822:THR:O	1:B:4825:THR:OG1	2.23	0.50
1:E:1159:THR:HG22	1:E:1180:ARG:HA	1.94	0.50
1:E:2866:THR:HB	1:E:2872:GLN:HB2	1.94	0.50
1:E:2963:LEU:O	1:E:2967:MET:HG2	2.11	0.50
1:E:3034:LYS:HA	1:E:3037:GLU:HG3	1.94	0.50
1:E:4183:ILE:HD13	1:E:4193:ILE:HD11	1.93	0.50
1:G:858:THR:HG21	1:G:931:THR:HG22	1.92	0.50
1:G:1464:PHE:HA	1:G:1468:LYS:HD2	1.92	0.50
1:G:2479:LEU:HA	1:G:2541:PHE:HZ	1.76	0.50
1:G:2866:THR:HB	1:G:2872:GLN:HB2	1.94	0.50
1:G:3384:LYS:NZ	1:G:3386:GLU:OE1	2.43	0.50
1:G:3839:CYS:O	1:G:3925:ARG:NH2	2.44	0.50
1:G:3877:ASP:HB3	1:G:3880:PHE:HB3	1.93	0.50
1:G:3980:LEU:O	1:G:3986:TRP:NE1	2.43	0.50
1:J:1087:ARG:HB3	1:J:1223:PHE:CD1	2.46	0.50
1:J:1617:THR:HG22	1:J:1628:VAL:HG13	1.93	0.50
1:J:1727:ARG:O	1:J:1731:LEU:HG	2.11	0.50
1:J:2747:ILE:HG12	1:J:2755:ILE:HG13	1.94	0.50
1:B:1694:LEU:HB3	1:B:1715:LEU:HD12	1.92	0.50
1:B:1782:PHE:O	2:A:82:TYR:OH	2.22	0.50
1:B:2487:GLN:HB3	1:B:2546:MET:HE1	1.94	0.50
1:B:2866:THR:HB	1:B:2872:GLN:HB2	1.94	0.50
1:B:3093:ARG:O	1:B:3097:GLU:HG2	2.11	0.50
1:B:3132:THR:HA	1:B:3136:LEU:HB2	1.92	0.50
1:B:3400:VAL:HG23	1:B:3403:ARG:HE	1.77	0.50
1:E:993:HIS:NE2	1:E:1022:VAL:O	2.41	0.50
1:E:1528:THR:HG23	1:E:1539:PHE:CE1	2.46	0.50
1:E:2879:ALA:HA	1:E:2882:TYR:CD2	2.47	0.50
1:E:3921:ASP:O	1:E:3925:ARG:HG3	2.12	0.50
1:G:2013:LYS:NZ	1:G:3661:TRP:O	2.44	0.50
1:G:2645:THR:HB	1:G:2702:CYS:HA	1.93	0.50
1:G:4999:ASP:HB2	1:G:5002:GLU:CG	2.38	0.50
1:J:1065:ASN:HA	1:J:1068:ARG:HH21	1.77	0.50
1:J:1291:LEU:HD11	1:J:1564:PHE:CE2	2.46	0.50
1:J:2012:PHE:CZ	1:J:2031:LEU:HD23	2.47	0.50
1:B:77:ALA:HB2	1:G:3935:TRP:CH2	2.47	0.50
1:B:1858:ASP:O	1:B:1862:ILE:HG13	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2013:LYS:NZ	1:B:3661:TRP:O	2.44	0.50
1:B:2354:VAL:HG11	1:B:2453:ILE:HD12	1.93	0.50
1:B:2522:LEU:HB3	1:B:2527:LEU:HD23	1.93	0.50
1:B:5014:TYR:HD1	1:B:5019:TRP:HE1	1.57	0.50
1:E:116:MET:HG3	1:E:139:GLU:HA	1.94	0.50
1:E:907:LEU:O	1:E:963:ASN:ND2	2.44	0.50
1:G:907:LEU:O	1:G:963:ASN:ND2	2.44	0.50
1:G:1159:THR:HG22	1:G:1180:ARG:HA	1.94	0.50
1:G:1492:CYS:SG	1:G:1493:TYR:N	2.84	0.50
1:G:1858:ASP:O	1:G:1862:ILE:HG13	2.12	0.50
1:G:3281:LEU:HD13	1:G:3307:VAL:HG21	1.94	0.50
1:G:4063:ASP:HB2	1:G:4067:LYS:HE3	1.93	0.50
1:J:2866:THR:HB	1:J:2872:GLN:HB2	1.94	0.50
1:B:574:VAL:O	1:B:578:ILE:HG12	2.11	0.50
1:E:1858:ASP:O	1:E:1862:ILE:HG13	2.12	0.50
1:E:3839:CYS:O	1:E:3925:ARG:NH2	2.44	0.50
1:G:1065:ASN:HA	1:G:1068:ARG:HH21	1.77	0.50
1:G:2251:PHE:CD2	1:G:2286:LEU:HD22	2.47	0.50
1:G:2668:SER:HB3	1:G:2671:GLU:HG3	1.93	0.50
1:G:2816:MET:HB3	1:G:2878:LEU:HD13	1.94	0.50
1:G:2879:ALA:HA	1:G:2882:TYR:CD2	2.47	0.50
1:G:3921:ASP:O	1:G:3925:ARG:HG3	2.12	0.50
1:G:4569:LEU:HD13	1:G:4650:HIS:HA	1.94	0.50
1:J:307:ALA:HB1	1:J:312:THR:HG21	1.94	0.50
1:J:747:CYS:SG	1:J:756:SER:HB2	2.52	0.50
1:J:897:ARG:HB3	3:K:58:ASN:OD1	2.12	0.50
1:J:2206:THR:O	1:J:2210:VAL:HG23	2.11	0.50
1:J:2645:THR:HB	1:J:2702:CYS:HA	1.93	0.50
1:J:2777:TYR:CE2	1:J:2793:PRO:HD3	2.46	0.50
1:J:2788:HIS:CE1	1:J:2790:MET:HB2	2.47	0.50
1:J:3032:SER:O	1:J:3036:LYS:HG3	2.12	0.50
1:J:3877:ASP:HB3	1:J:3880:PHE:HB3	1.93	0.50
1:J:4063:ASP:HB2	1:J:4067:LYS:HE3	1.93	0.50
3:C:18:LEU:HB2	3:C:82:MET:HB3	1.93	0.50
3:F:33:SER:OG	3:F:101:PRO:HA	2.12	0.50
3:K:33:SER:OG	3:K:101:PRO:HA	2.12	0.50
3:M:122:GLN:HE21	3:M:124:THR:HG1	1.54	0.50
1:B:663:TYR:HD1	1:B:747:CYS:HB3	1.75	0.50
1:B:3032:SER:O	1:B:3036:LYS:HG3	2.12	0.50
1:B:3514:LEU:HD11	1:B:3606:LEU:HD13	1.94	0.50
1:E:229:GLU:HA	1:E:249:GLY:HA3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3400:VAL:HG23	1:E:3403:ARG:HE	1.77	0.50
1:G:116:MET:HG3	1:G:139:GLU:HA	1.94	0.50
1:G:266:ARG:HG2	1:G:268:SER:H	1.76	0.50
1:G:1291:LEU:HD11	1:G:1564:PHE:CE2	2.46	0.50
1:G:4183:ILE:HD13	1:G:4193:ILE:HD11	1.93	0.50
1:B:116:MET:HG3	1:B:139:GLU:HA	1.94	0.49
1:B:492:ASP:OD1	1:B:546:TRP:NE1	2.44	0.49
1:B:3839:CYS:O	1:B:3925:ARG:NH2	2.44	0.49
1:E:470:SER:HA	1:E:473:ASN:HD21	1.76	0.49
1:E:548:VAL:HG21	1:E:582:HIS:HD2	1.77	0.49
1:E:747:CYS:SG	1:E:756:SER:HB2	2.52	0.49
1:E:1727:ARG:O	1:E:1731:LEU:HG	2.12	0.49
1:G:470:SER:HA	1:G:473:ASN:ND2	2.26	0.49
1:G:747:CYS:SG	1:G:756:SER:HB2	2.52	0.49
1:G:790:ARG:HD2	1:G:1624:LEU:HB3	1.92	0.49
1:G:1578:ALA:HA	1:G:1584:ARG:HH12	1.77	0.49
1:G:2908:TYR:HA	1:G:2911:LEU:CD2	2.42	0.49
1:J:45:ARG:HD3	1:J:45:ARG:H	1.77	0.49
1:J:920:TYR:HE1	3:K:99:ARG:HE	1.58	0.49
1:J:2251:PHE:CD2	1:J:2286:LEU:HD22	2.46	0.49
1:J:4569:LEU:HD13	1:J:4650:HIS:HA	1.94	0.49
1:B:246:TYR:CG	1:B:373:LYS:HG3	2.47	0.49
1:B:1154:ASP:OD1	1:B:1159:THR:OG1	2.22	0.49
1:B:1578:ALA:HA	1:B:1584:ARG:HH12	1.78	0.49
1:B:2163:ARG:HA	1:B:2166:LEU:HG	1.94	0.49
1:B:2489:LYS:HE2	1:B:2491:SER:HB3	1.94	0.49
1:B:2908:TYR:HA	1:B:2911:LEU:CD2	2.42	0.49
1:B:3034:LYS:HA	1:B:3037:GLU:HG3	1.94	0.49
1:B:3354:LEU:HB2	1:B:3415:TYR:CE2	2.47	0.49
1:B:3573:MET:O	1:B:3577:ARG:HG2	2.11	0.49
1:B:4581:LYS:HE2	1:B:4632:LEU:HD22	1.93	0.49
1:B:5014:TYR:O	1:B:5017:ARG:NH2	2.43	0.49
1:E:266:ARG:HG2	1:E:268:SER:H	1.76	0.49
1:E:369:LEU:HB3	1:E:371:VAL:HG23	1.94	0.49
1:E:1291:LEU:HD11	1:E:1564:PHE:CE2	2.46	0.49
1:E:2012:PHE:CZ	1:E:2031:LEU:HD23	2.47	0.49
1:E:2128:TYR:HB2	1:E:3673:MET:HE1	1.94	0.49
1:E:3354:LEU:HB2	1:E:3415:TYR:CE2	2.47	0.49
1:G:229:GLU:HA	1:G:249:GLY:HA3	1.92	0.49
1:G:2206:THR:O	1:G:2210:VAL:HG23	2.11	0.49
1:J:2128:TYR:HB2	1:J:3673:MET:HE1	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2522:LEU:HB3	1:J:2527:LEU:HD23	1.93	0.49
1:J:3260:GLY:HA2	1:J:3325:ASN:ND2	2.27	0.49
1:J:3536:ALA:HB2	1:J:3553:LEU:HD21	1.93	0.49
1:J:4183:ILE:HD13	1:J:4193:ILE:HD11	1.93	0.49
1:B:1291:LEU:HD11	1:B:1564:PHE:CE2	2.46	0.49
1:B:2251:PHE:CD2	1:B:2286:LEU:HD22	2.47	0.49
1:B:3281:LEU:HD13	1:B:3307:VAL:HG21	1.93	0.49
1:E:2251:PHE:CD2	1:E:2286:LEU:HD22	2.47	0.49
1:E:2487:GLN:HB3	1:E:2546:MET:HE1	1.94	0.49
1:E:3573:MET:O	1:E:3577:ARG:HG2	2.12	0.49
1:G:1037:ASP:O	1:G:1041:GLN:HG2	2.13	0.49
1:G:2747:ILE:HG12	1:G:2755:ILE:HG13	1.94	0.49
1:G:2866:THR:O	1:G:2928:LYS:NZ	2.22	0.49
1:G:3536:ALA:HB2	1:G:3553:LEU:HD21	1.93	0.49
1:G:4581:LYS:HE2	1:G:4632:LEU:HD22	1.94	0.49
1:J:590:LEU:HG	1:J:599:VAL:HG11	1.93	0.49
1:J:1424:PRO:O	1:J:1428:LEU:HG	2.13	0.49
1:J:1578:ALA:HA	1:J:1584:ARG:HH12	1.78	0.49
1:J:2013:LYS:NZ	1:J:3661:TRP:O	2.44	0.49
1:J:2882:TYR:O	1:J:2886:TRP:HE3	1.95	0.49
1:J:3400:VAL:HG23	1:J:3403:ARG:HE	1.77	0.49
1:J:3511:VAL:HG23	1:J:3515:LYS:HD2	1.94	0.49
1:J:4581:LYS:HE2	1:J:4632:LEU:HD22	1.94	0.49
3:C:33:SER:OG	3:C:101:PRO:HA	2.12	0.49
1:B:470:SER:HA	1:B:473:ASN:HD21	1.76	0.49
1:B:2012:PHE:CZ	1:B:2031:LEU:HD23	2.47	0.49
1:E:50:GLU:O	1:E:52:THR:HG23	2.12	0.49
1:E:1065:ASN:OD1	1:E:1069:TRP:NE1	2.46	0.49
1:E:1578:ALA:HA	1:E:1584:ARG:HH12	1.78	0.49
1:E:2163:ARG:HA	1:E:2166:LEU:HG	1.94	0.49
1:E:3536:ALA:HB2	1:E:3553:LEU:HD21	1.93	0.49
1:E:3886:ARG:HD2	1:E:3889:GLN:HE21	1.78	0.49
1:E:3935:TRP:CH2	1:J:77:ALA:HB2	2.47	0.49
1:E:3937:TYR:HA	1:E:3940:LYS:HE2	1.94	0.49
1:G:50:GLU:O	1:G:52:THR:HG23	2.12	0.49
1:G:77:ALA:HB2	1:J:3935:TRP:CH2	2.47	0.49
1:G:307:ALA:HB1	1:G:312:THR:HG21	1.94	0.49
1:G:897:ARG:HB3	3:M:58:ASN:OD1	2.11	0.49
1:G:1065:ASN:OD1	1:G:1069:TRP:NE1	2.46	0.49
1:J:116:MET:HG3	1:J:139:GLU:HA	1.94	0.49
1:J:266:ARG:HG2	1:J:268:SER:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:105:ASN:HD21	3:K:107:TRP:HB3	1.77	0.49
1:B:747:CYS:SG	1:B:756:SER:HB2	2.52	0.49
1:B:1528:THR:HG23	1:B:1539:PHE:CE1	2.46	0.49
1:B:2879:ALA:HA	1:B:2882:TYR:CD2	2.47	0.49
1:B:4569:LEU:HD13	1:B:4650:HIS:HA	1.94	0.49
1:E:590:LEU:HG	1:E:599:VAL:HG11	1.93	0.49
1:E:881:LEU:O	1:E:885:THR:HG23	2.13	0.49
1:E:1613:LEU:H	1:E:1613:LEU:HD12	1.78	0.49
1:E:2354:VAL:HG11	1:E:2453:ILE:HD12	1.93	0.49
1:E:2747:ILE:HG12	1:E:2755:ILE:HG13	1.94	0.49
1:E:2788:HIS:CE1	1:E:2790:MET:HB2	2.47	0.49
1:E:3032:SER:O	1:E:3036:LYS:HG3	2.12	0.49
1:E:3268:HIS:CE1	1:E:3272:ILE:HD12	2.48	0.49
1:E:3332:ALA:HB1	1:E:3335:MET:HE3	1.93	0.49
1:G:548:VAL:HG21	1:G:582:HIS:HD2	1.76	0.49
1:G:1727:ARG:O	1:G:1731:LEU:HG	2.12	0.49
1:G:2163:ARG:HA	1:G:2166:LEU:HG	1.94	0.49
1:G:2380:ILE:O	1:G:2384:ILE:HG13	2.11	0.49
1:G:2788:HIS:CE1	1:G:2790:MET:HB2	2.47	0.49
1:G:2882:TYR:O	1:G:2886:TRP:HE3	1.96	0.49
1:G:3886:ARG:O	1:G:3890:LEU:HG	2.12	0.49
1:J:1613:LEU:H	1:J:1613:LEU:HD12	1.78	0.49
1:J:2354:VAL:HG11	1:J:2453:ILE:HD12	1.93	0.49
1:J:2908:TYR:HA	1:J:2911:LEU:CD2	2.42	0.49
3:F:4:LEU:HD12	3:F:24:ALA:HB2	1.95	0.49
1:B:307:ALA:HB1	1:B:312:THR:HG21	1.94	0.49
1:B:792:LEU:HD22	1:B:799:GLU:H	1.77	0.49
1:B:881:LEU:O	1:B:885:THR:HG23	2.13	0.49
1:B:1424:PRO:O	1:B:1428:LEU:HG	2.13	0.49
1:B:3332:ALA:HB1	1:B:3335:MET:HE3	1.93	0.49
1:E:1424:PRO:O	1:E:1428:LEU:HG	2.13	0.49
1:E:2489:LYS:HE2	1:E:2491:SER:HB3	1.94	0.49
1:E:3260:GLY:HA2	1:E:3325:ASN:ND2	2.27	0.49
1:E:3281:LEU:HD13	1:E:3307:VAL:HG21	1.94	0.49
1:E:3943:ILE:HG12	1:E:4009:GLN:HE22	1.77	0.49
1:G:1866:ILE:O	1:G:1926:LEU:N	2.45	0.49
1:G:2012:PHE:CZ	1:G:2031:LEU:HD23	2.47	0.49
1:G:2354:VAL:HG11	1:G:2453:ILE:HD12	1.93	0.49
1:G:5014:TYR:O	1:G:5017:ARG:NH2	2.43	0.49
1:J:246:TYR:CG	1:J:373:LYS:HG3	2.48	0.49
1:J:1065:ASN:OD1	1:J:1069:TRP:NE1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2190:VAL:HA	1:J:2193:GLN:HB3	1.95	0.49
1:B:897:ARG:HB3	3:C:58:ASN:OD1	2.13	0.49
1:B:2645:THR:HB	1:B:2702:CYS:HA	1.93	0.49
1:B:2827:ARG:NE	1:B:2935:TYR:OH	2.27	0.49
1:B:3511:VAL:HG23	1:B:3515:LYS:HD2	1.94	0.49
1:B:4219:PHE:HD1	1:B:4950:VAL:HG11	1.78	0.49
1:E:307:ALA:HB1	1:E:312:THR:HG21	1.94	0.49
1:E:3727:ASP:HB3	1:E:3731:LYS:NZ	2.28	0.49
1:E:4219:PHE:HD1	1:E:4950:VAL:HG11	1.78	0.49
1:G:181:HIS:ND1	1:G:196:MET:HB2	2.28	0.49
1:G:251:ALA:O	1:G:255:HIS:ND1	2.46	0.49
1:G:2190:VAL:HA	1:G:2193:GLN:HB3	1.95	0.49
1:G:3032:SER:O	1:G:3036:LYS:HG3	2.12	0.49
1:J:2668:SER:HB3	1:J:2671:GLU:HG3	1.93	0.49
1:J:2827:ARG:NE	1:J:2935:TYR:OH	2.27	0.49
1:J:3268:HIS:CE1	1:J:3272:ILE:HD12	2.48	0.49
1:J:3921:ASP:O	1:J:3925:ARG:HG3	2.12	0.49
3:C:4:LEU:HD12	3:C:24:ALA:HB2	1.95	0.49
3:F:18:LEU:HB2	3:F:82:MET:HB3	1.94	0.49
3:K:4:LEU:HD12	3:K:24:ALA:HB2	1.95	0.49
3:K:18:LEU:HB2	3:K:82:MET:HB3	1.94	0.49
1:B:2190:VAL:HA	1:B:2193:GLN:HB3	1.95	0.49
1:B:3457:ASN:O	1:B:3461:GLN:HG2	2.12	0.49
1:B:3886:ARG:HD2	1:B:3889:GLN:HE21	1.78	0.49
1:B:4096:ALA:O	1:B:4100:GLN:HG2	2.13	0.49
1:B:4183:ILE:HD13	1:B:4193:ILE:HD11	1.93	0.49
1:E:920:TYR:HE1	3:F:99:ARG:HE	1.58	0.49
1:E:1065:ASN:HA	1:E:1068:ARG:HH21	1.77	0.49
1:E:2443:ILE:HD12	1:E:2454:ARG:NH1	2.28	0.49
1:E:3514:LEU:HD11	1:E:3606:LEU:HD13	1.94	0.49
1:E:4569:LEU:HD13	1:E:4650:HIS:HA	1.94	0.49
1:G:590:LEU:HG	1:G:599:VAL:HG11	1.93	0.49
1:G:2653:LYS:HE2	1:G:2661:TRP:HA	1.94	0.49
1:G:4059:LEU:HD13	1:G:4167:ALA:HB2	1.95	0.49
1:G:4207:MET:HG2	1:G:4208:PRO:HD2	1.95	0.49
1:J:181:HIS:ND1	1:J:196:MET:HB2	2.28	0.49
1:J:1866:ILE:O	1:J:1926:LEU:N	2.45	0.49
1:J:2163:ARG:HA	1:J:2166:LEU:HG	1.94	0.49
1:J:2479:LEU:HA	1:J:2541:PHE:HZ	1.76	0.49
1:J:2673:HIS:CE1	1:J:2677:LYS:HE2	2.48	0.49
1:J:3937:TYR:HA	1:J:3940:LYS:HE2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:181:HIS:ND1	1:B:196:MET:HB2	2.28	0.49
1:B:2575:ARG:NH1	1:B:2575:ARG:HA	2.28	0.49
1:B:2653:LYS:HE2	1:B:2661:TRP:HA	1.94	0.49
1:B:2788:HIS:CE1	1:B:2790:MET:HB2	2.47	0.49
1:B:2882:TYR:O	1:B:2886:TRP:HE3	1.95	0.49
1:B:3316:LEU:HD22	1:B:3346:VAL:HA	1.95	0.49
1:B:3670:GLU:HA	1:B:3673:MET:HG2	1.95	0.49
1:B:3935:TRP:CH2	1:E:77:ALA:HB2	2.47	0.49
1:E:3511:VAL:HG23	1:E:3515:LYS:HD2	1.94	0.49
1:E:3670:GLU:HA	1:E:3673:MET:HG2	1.95	0.49
1:G:1734:TYR:HD2	1:G:2141:ALA:HA	1.77	0.49
1:G:2128:TYR:HB2	1:G:3673:MET:HE1	1.94	0.49
1:G:2487:GLN:HB3	1:G:2546:MET:HE1	1.94	0.49
1:G:2821:TRP:HA	1:G:2938:THR:O	2.13	0.49
1:G:3260:GLY:HA2	1:G:3325:ASN:ND2	2.27	0.49
1:G:3514:LEU:HD11	1:G:3606:LEU:HD13	1.94	0.49
1:G:4128:PHE:HA	1:G:4131:ARG:HE	1.78	0.49
1:J:881:LEU:O	1:J:885:THR:HG23	2.13	0.49
1:J:907:LEU:O	1:J:963:ASN:ND2	2.45	0.49
1:J:2134:LEU:O	1:J:2138:LEU:HG	2.13	0.49
1:J:3281:LEU:HD13	1:J:3307:VAL:HG21	1.94	0.49
1:J:3727:ASP:HB3	1:J:3731:LYS:NZ	2.28	0.49
1:B:582:HIS:O	1:B:586:ILE:HG13	2.13	0.49
1:B:1433:TYR:CZ	1:B:1578:ALA:HB2	2.48	0.49
1:B:2380:ILE:O	1:B:2384:ILE:HG13	2.12	0.49
1:B:2479:LEU:HA	1:B:2541:PHE:HZ	1.76	0.49
1:B:2861:ASP:HB3	1:B:2928:LYS:HB2	1.95	0.49
1:B:2902:HIS:HB3	1:B:2905:LEU:HB2	1.95	0.49
1:B:3769:ARG:O	1:B:3773:ARG:NH1	2.44	0.49
1:B:3877:ASP:HB3	1:B:3880:PHE:HB3	1.94	0.49
1:E:45:ARG:HD3	1:E:45:ARG:H	1.77	0.49
1:E:792:LEU:HD22	1:E:799:GLU:H	1.77	0.49
1:E:1154:ASP:OD1	1:E:1159:THR:OG1	2.22	0.49
1:E:2190:VAL:HA	1:E:2193:GLN:HB3	1.95	0.49
1:E:2823:ILE:HB	1:E:2935:TYR:HD1	1.78	0.49
1:E:3955:MET:HB2	1:E:4019:LEU:HD22	1.95	0.49
1:G:2443:ILE:HD12	1:G:2454:ARG:NH1	2.28	0.49
1:G:3937:TYR:HA	1:G:3940:LYS:HE2	1.94	0.49
1:J:2500:ALA:HB2	1:J:2553:TYR:HD1	1.78	0.49
1:J:2823:ILE:HB	1:J:2935:TYR:HD1	1.78	0.49
1:J:3670:GLU:HA	1:J:3673:MET:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4207:MET:HG2	1:J:4208:PRO:HD2	1.95	0.49
1:J:4219:PHE:HD1	1:J:4950:VAL:HG11	1.78	0.49
1:B:2443:ILE:HD12	1:B:2454:ARG:NH1	2.28	0.48
1:B:4128:PHE:HA	1:B:4131:ARG:HE	1.78	0.48
1:E:181:HIS:ND1	1:E:196:MET:HB2	2.28	0.48
1:E:1008:SER:HB2	1:E:1017:ARG:NE	2.28	0.48
1:E:1433:TYR:CZ	1:E:1578:ALA:HB2	2.48	0.48
1:E:1439:VAL:HB	1:E:1514:LEU:HB3	1.95	0.48
1:E:3877:ASP:HB3	1:E:3880:PHE:HB3	1.94	0.48
1:G:1424:PRO:O	1:G:1428:LEU:HG	2.13	0.48
1:G:1528:THR:HG23	1:G:1539:PHE:CE1	2.46	0.48
1:G:2883:HIS:NE2	1:G:2906:VAL:O	2.47	0.48
1:G:2902:HIS:HB3	1:G:2905:LEU:HB2	1.95	0.48
1:G:3103:ILE:O	1:G:3107:VAL:HG13	2.13	0.48
1:G:3159:ASP:HA	1:G:3162:GLN:HE21	1.78	0.48
1:G:3192:GLU:O	1:G:3196:ARG:HG2	2.13	0.48
1:G:3670:GLU:HA	1:G:3673:MET:HG2	1.95	0.48
1:J:369:LEU:HB3	1:J:371:VAL:HG23	1.95	0.48
1:J:2443:ILE:HD12	1:J:2454:ARG:NH1	2.28	0.48
1:J:4059:LEU:HD13	1:J:4167:ALA:HB2	1.95	0.48
3:M:4:LEU:HD12	3:M:24:ALA:HB2	1.95	0.48
3:M:18:LEU:HB2	3:M:82:MET:HB3	1.94	0.48
1:B:1613:LEU:H	1:B:1613:LEU:HD12	1.78	0.48
1:B:2134:LEU:O	1:B:2138:LEU:HG	2.13	0.48
1:B:2823:ILE:HB	1:B:2935:TYR:HD1	1.78	0.48
1:B:4059:LEU:HD13	1:B:4167:ALA:HB2	1.95	0.48
1:E:251:ALA:O	1:E:255:HIS:ND1	2.46	0.48
1:E:1866:ILE:O	1:E:1926:LEU:N	2.45	0.48
1:E:2575:ARG:NH1	1:E:2575:ARG:HA	2.28	0.48
1:G:2134:LEU:O	1:G:2138:LEU:HG	2.13	0.48
1:G:2861:ASP:HB3	1:G:2928:LYS:HB2	1.95	0.48
1:G:3268:HIS:CE1	1:G:3272:ILE:HD12	2.48	0.48
1:G:3943:ILE:HG12	1:G:4009:GLN:HE22	1.77	0.48
1:G:3955:MET:HB2	1:G:4019:LEU:HD22	1.95	0.48
1:G:4219:PHE:HD1	1:G:4950:VAL:HG11	1.78	0.48
1:J:50:GLU:O	1:J:52:THR:HG23	2.12	0.48
1:J:582:HIS:O	1:J:586:ILE:HG13	2.13	0.48
1:J:2821:TRP:HA	1:J:2938:THR:O	2.13	0.48
1:J:3889:GLN:HB3	1:J:3964:SER:HA	1.95	0.48
1:J:4096:ALA:O	1:J:4100:GLN:HG2	2.13	0.48
3:M:105:ASN:HD21	3:M:107:TRP:HB3	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1065:ASN:OD1	1:B:1069:TRP:NE1	2.46	0.48
1:B:2747:ILE:HG12	1:B:2755:ILE:HG13	1.94	0.48
1:B:2888:ARG:O	1:B:2892:GLN:HG2	2.14	0.48
1:B:3268:HIS:CE1	1:B:3272:ILE:HD12	2.48	0.48
1:B:3937:TYR:HA	1:B:3940:LYS:HE2	1.94	0.48
1:B:4586:PRO:HB3	1:B:4628:VAL:HG21	1.96	0.48
1:E:652:ARG:HG2	1:E:750:LEU:HB3	1.95	0.48
1:E:815:VAL:O	1:E:1007:TYR:OH	2.24	0.48
1:E:838:HIS:CD2	1:E:1201:HIS:HB2	2.49	0.48
1:E:1225:PRO:HG2	1:E:1228:ILE:HD12	1.95	0.48
1:E:2376:LEU:O	1:E:2380:ILE:HG12	2.13	0.48
1:E:2908:TYR:HA	1:E:2911:LEU:CD2	2.42	0.48
1:E:4096:ALA:O	1:E:4100:GLN:HG2	2.13	0.48
1:E:4207:MET:HG2	1:E:4208:PRO:HD2	1.95	0.48
1:G:838:HIS:CD2	1:G:1201:HIS:HB2	2.49	0.48
1:G:881:LEU:O	1:G:885:THR:HG23	2.13	0.48
1:G:1225:PRO:HG2	1:G:1228:ILE:HD12	1.95	0.48
1:G:1433:TYR:CZ	1:G:1578:ALA:HB2	2.48	0.48
1:G:2673:HIS:CE1	1:G:2677:LYS:HE2	2.48	0.48
1:G:3889:GLN:HB3	1:G:3964:SER:HA	1.96	0.48
1:G:4586:PRO:HB3	1:G:4628:VAL:HG21	1.96	0.48
1:J:1037:ASP:O	1:J:1041:GLN:HG2	2.13	0.48
1:J:2376:LEU:O	1:J:2380:ILE:HG12	2.13	0.48
1:J:2902:HIS:HB3	1:J:2905:LEU:HB2	1.95	0.48
1:B:462:GLU:HG2	1:B:3710:LEU:HD13	1.96	0.48
1:B:838:HIS:CD2	1:B:1201:HIS:HB2	2.49	0.48
1:B:1037:ASP:O	1:B:1041:GLN:HG2	2.13	0.48
1:B:1065:ASN:HA	1:B:1068:ARG:HH21	1.77	0.48
1:B:1087:ARG:CZ	1:B:1222:GLY:HA3	2.43	0.48
1:B:1734:TYR:HD2	1:B:2141:ALA:HA	1.77	0.48
1:B:2500:ALA:HB2	1:B:2553:TYR:HD1	1.78	0.48
1:B:2883:HIS:NE2	1:B:2906:VAL:O	2.46	0.48
1:B:3103:ILE:O	1:B:3107:VAL:HG13	2.13	0.48
1:E:730:VAL:HA	1:E:1476:MET:CE	2.37	0.48
1:E:1037:ASP:O	1:E:1041:GLN:HG2	2.13	0.48
1:E:3316:LEU:HD22	1:E:3346:VAL:HA	1.95	0.48
1:G:582:HIS:O	1:G:586:ILE:HG13	2.13	0.48
1:G:1613:LEU:H	1:G:1613:LEU:HD12	1.78	0.48
1:G:2489:LYS:HE2	1:G:2491:SER:HB3	1.94	0.48
1:G:2823:ILE:HB	1:G:2935:TYR:HD1	1.78	0.48
1:G:4096:ALA:O	1:G:4100:GLN:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1008:SER:HB2	1:J:1017:ARG:NE	2.28	0.48
1:J:1087:ARG:CZ	1:J:1222:GLY:HA3	2.43	0.48
1:J:1802:ILE:O	1:J:1804:LEU:HD22	2.14	0.48
1:J:2487:GLN:HB3	1:J:2546:MET:HE1	1.94	0.48
1:J:2888:ARG:O	1:J:2892:GLN:HG2	2.14	0.48
1:J:3194:LEU:HD11	1:J:3275:PRO:HB2	1.96	0.48
1:B:931:THR:O	1:B:935:LEU:HG	2.14	0.48
1:B:1225:PRO:HG2	1:B:1228:ILE:HD12	1.95	0.48
1:B:1439:VAL:HB	1:B:1514:LEU:HB3	1.95	0.48
1:B:2128:TYR:HB2	1:B:3673:MET:HE1	1.94	0.48
1:B:3727:ASP:HB3	1:B:3731:LYS:NZ	2.28	0.48
1:B:3729:MET:HE3	1:B:3770:LEU:HD13	1.95	0.48
1:E:582:HIS:O	1:E:586:ILE:HG13	2.13	0.48
1:E:2595:LEU:HB2	1:E:2600:ARG:NE	2.25	0.48
1:E:2821:TRP:HA	1:E:2938:THR:O	2.13	0.48
1:E:2883:HIS:NE2	1:E:2906:VAL:O	2.47	0.48
1:E:2902:HIS:HB3	1:E:2905:LEU:HB2	1.95	0.48
1:E:3159:ASP:HA	1:E:3162:GLN:HE21	1.78	0.48
1:E:4128:PHE:HA	1:E:4131:ARG:HE	1.78	0.48
1:G:45:ARG:H	1:G:45:ARG:HD3	1.77	0.48
1:G:931:THR:O	1:G:935:LEU:HG	2.14	0.48
1:G:1802:ILE:O	1:G:1804:LEU:HD22	2.14	0.48
1:G:5003:HIS:HD2	1:G:5007:GLU:HB3	1.79	0.48
1:J:838:HIS:CD2	1:J:1201:HIS:HB2	2.49	0.48
1:J:1433:TYR:CZ	1:J:1578:ALA:HB2	2.48	0.48
1:J:2447:LYS:O	1:J:2451:LEU:HG	2.14	0.48
1:J:2823:ILE:HD12	1:J:2935:TYR:CD1	2.49	0.48
1:J:3639:THR:N	1:J:3640:PRO:HD2	2.29	0.48
1:J:3886:ARG:HD2	1:J:3889:GLN:HE21	1.78	0.48
1:J:3955:MET:HB2	1:J:4019:LEU:HD22	1.95	0.48
2:I:7:ILE:HD11	2:I:73:LYS:HB2	1.96	0.48
1:B:251:ALA:O	1:B:255:HIS:ND1	2.46	0.48
1:B:1964:ARG:O	1:B:1968:LYS:HG3	2.14	0.48
1:B:3548:GLU:HG2	1:B:3552:PHE:CE2	2.49	0.48
1:B:3955:MET:HB2	1:B:4019:LEU:HD22	1.95	0.48
1:B:4207:MET:HG2	1:B:4208:PRO:HD2	1.95	0.48
1:E:2653:LYS:HE2	1:E:2661:TRP:HA	1.94	0.48
1:E:3194:LEU:HD11	1:E:3275:PRO:HB2	1.96	0.48
1:E:3889:GLN:HB3	1:E:3964:SER:HA	1.95	0.48
1:G:492:ASP:OD1	1:G:546:TRP:NE1	2.44	0.48
1:G:1161:ILE:HG12	1:G:1177:THR:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2500:ALA:HB2	1:G:2553:TYR:HD1	1.78	0.48
1:G:3047:ALA:HB1	1:G:3095:PHE:CE1	2.49	0.48
1:G:3316:LEU:HD22	1:G:3346:VAL:HA	1.95	0.48
1:G:3727:ASP:HB3	1:G:3731:LYS:NZ	2.28	0.48
1:J:1945:TYR:O	1:J:1949:GLN:HG2	2.14	0.48
1:J:3159:ASP:HA	1:J:3162:GLN:HE21	1.78	0.48
1:J:3729:MET:HE3	1:J:3770:LEU:HD13	1.95	0.48
1:B:45:ARG:HD3	1:B:45:ARG:H	1.77	0.48
1:B:2447:LYS:O	1:B:2451:LEU:HG	2.14	0.48
1:B:2821:TRP:HA	1:B:2938:THR:O	2.13	0.48
1:E:248:GLU:HB2	1:E:373:LYS:HA	1.96	0.48
1:E:998:ARG:HA	1:E:1001:VAL:HG22	1.95	0.48
1:E:1734:TYR:HD2	1:E:2141:ALA:HA	1.77	0.48
1:E:1964:ARG:O	1:E:1968:LYS:HG3	2.14	0.48
1:E:2861:ASP:HB3	1:E:2928:LYS:HB2	1.96	0.48
1:E:2882:TYR:O	1:E:2886:TRP:HE3	1.96	0.48
1:E:3639:THR:N	1:E:3640:PRO:HD2	2.29	0.48
1:E:3769:ARG:O	1:E:3773:ARG:NH1	2.44	0.48
1:E:4580:TYR:HA	1:E:4632:LEU:H	1.79	0.48
1:G:51:PRO:O	1:G:53:SER:N	2.47	0.48
1:G:462:GLU:HG2	1:G:3710:LEU:HD13	1.96	0.48
1:G:1945:TYR:O	1:G:1949:GLN:HG2	2.14	0.48
1:G:2247:GLN:HG3	1:G:2279:SER:HA	1.96	0.48
1:G:2575:ARG:NH1	1:G:2575:ARG:HA	2.28	0.48
1:G:3511:VAL:HG23	1:G:3515:LYS:HD2	1.94	0.48
1:J:1002:ALA:HB1	3:K:1:GLN:HE21	1.79	0.48
1:J:1734:TYR:HD2	1:J:2141:ALA:HA	1.77	0.48
1:J:2312:MET:SD	1:J:2313:LEU:HD22	2.54	0.48
1:J:2352:VAL:O	1:J:2356:LEU:HG	2.14	0.48
1:J:2489:LYS:HE2	1:J:2491:SER:HB3	1.94	0.48
1:J:2861:ASP:HB3	1:J:2928:LYS:HB2	1.96	0.48
1:J:3192:GLU:O	1:J:3196:ARG:HG2	2.13	0.48
1:J:3514:LEU:HD11	1:J:3606:LEU:HD13	1.94	0.48
1:J:3943:ILE:HG12	1:J:4009:GLN:HE22	1.77	0.48
1:J:4580:TYR:HA	1:J:4632:LEU:H	1.79	0.48
1:J:4704:LEU:HA	1:J:4774:LYS:HE2	1.95	0.48
2:H:7:ILE:HD11	2:H:73:LYS:HB2	1.96	0.48
1:E:356:TRP:N	1:E:379:HIS:O	2.38	0.48
1:E:1229:ASN:HD22	1:E:1827:ARG:HG3	1.79	0.48
1:E:1258:ALA:HB3	1:E:1271:ARG:HB3	1.96	0.48
1:E:1945:TYR:O	1:E:1949:GLN:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2134:LEU:O	1:E:2138:LEU:HG	2.13	0.48
1:G:246:TYR:CG	1:G:373:LYS:HG3	2.49	0.48
1:G:652:ARG:HG2	1:G:750:LEU:HB3	1.95	0.48
1:G:1087:ARG:CZ	1:G:1222:GLY:HA3	2.43	0.48
1:G:3309:SER:HA	1:G:3312:LEU:HG	1.96	0.48
1:J:251:ALA:O	1:J:255:HIS:ND1	2.46	0.48
1:J:4128:PHE:HA	1:J:4131:ARG:HE	1.78	0.48
1:J:4586:PRO:HB3	1:J:4628:VAL:HG21	1.96	0.48
3:K:6:GLU:HA	3:K:21:SER:O	2.14	0.48
3:M:33:SER:OG	3:M:101:PRO:HA	2.12	0.48
1:B:369:LEU:HB3	1:B:371:VAL:HG23	1.95	0.48
1:B:995:VAL:HA	1:B:998:ARG:HG2	1.96	0.48
1:B:1161:ILE:HG12	1:B:1177:THR:HG22	1.96	0.48
1:B:2312:MET:SD	1:B:2313:LEU:HD22	2.54	0.48
1:B:3260:GLY:HA2	1:B:3325:ASN:ND2	2.27	0.48
1:B:3943:ILE:HG12	1:B:4009:GLN:HE22	1.77	0.48
1:B:4580:TYR:HA	1:B:4632:LEU:H	1.79	0.48
1:E:931:THR:O	1:E:935:LEU:HG	2.14	0.48
1:E:1087:ARG:CZ	1:E:1222:GLY:HA3	2.43	0.48
1:E:1802:ILE:O	1:E:1804:LEU:HD22	2.14	0.48
1:E:2673:HIS:CE1	1:E:2677:LYS:HE2	2.48	0.48
1:E:3192:GLU:O	1:E:3196:ARG:HG2	2.13	0.48
1:E:4059:LEU:HD13	1:E:4167:ALA:HB2	1.95	0.48
1:G:369:LEU:HB3	1:G:371:VAL:HG23	1.94	0.48
1:G:952:LYS:HG2	1:G:970:LEU:HA	1.96	0.48
1:G:998:ARG:HA	1:G:1001:VAL:HG22	1.95	0.48
1:G:1258:ALA:HB3	1:G:1271:ARG:HB3	1.96	0.48
1:J:462:GLU:HG2	1:J:3710:LEU:HD13	1.96	0.48
1:J:652:ARG:HG2	1:J:750:LEU:HB3	1.95	0.48
1:J:995:VAL:HA	1:J:998:ARG:HG2	1.96	0.48
1:J:1067:SER:O	1:J:1071:ARG:HD2	2.14	0.48
1:J:2653:LYS:HE2	1:J:2661:TRP:HA	1.94	0.48
1:J:3086:GLU:HA	1:J:3089:LYS:HE3	1.96	0.48
1:J:3316:LEU:HD22	1:J:3346:VAL:HA	1.95	0.48
1:J:3428:ASN:O	1:J:3432:GLU:HG2	2.14	0.48
1:B:893:TYR:H	1:B:962:SER:HB2	1.79	0.48
1:B:1802:ILE:O	1:B:1804:LEU:HD22	2.14	0.48
1:B:1945:TYR:O	1:B:1949:GLN:HG2	2.14	0.48
1:B:2376:LEU:O	1:B:2380:ILE:HG12	2.13	0.48
1:B:2694:GLU:OE1	1:B:2697:ARG:NH2	2.47	0.48
1:B:3047:ALA:HB1	1:B:3095:PHE:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3889:GLN:HB3	1:B:3964:SER:HA	1.95	0.48
1:E:3031:ALA:O	1:E:3036:LYS:NZ	2.27	0.48
1:G:248:GLU:HA	1:G:372:LEU:O	2.12	0.48
1:G:1067:SER:O	1:G:1071:ARG:HD2	2.14	0.48
1:G:1229:ASN:HD22	1:G:1827:ARG:HG3	1.79	0.48
1:G:1714:LEU:O	1:G:1718:ILE:HG12	2.14	0.48
1:G:2312:MET:SD	1:G:2313:LEU:HD22	2.54	0.48
1:G:3400:VAL:HG23	1:G:3403:ARG:HE	1.77	0.48
1:J:51:PRO:C	1:J:53:SER:H	2.22	0.48
1:J:893:TYR:H	1:J:962:SER:HB2	1.78	0.48
1:J:1163:THR:HG22	1:J:1168:VAL:HG22	1.96	0.48
1:J:1297:PHE:HA	1:J:1522:LEU:HD22	1.96	0.48
1:J:1964:ARG:O	1:J:1968:LYS:HG3	2.14	0.48
1:J:2575:ARG:NH1	1:J:2575:ARG:HA	2.28	0.48
1:J:3107:VAL:HG12	1:J:3175:LEU:HD23	1.96	0.48
1:J:4021:LYS:O	1:J:4025:VAL:HG23	2.14	0.48
2:D:7:ILE:HD11	2:D:73:LYS:HB2	1.96	0.48
1:B:51:PRO:O	1:B:53:SER:N	2.47	0.47
1:B:952:LYS:HG2	1:B:970:LEU:HA	1.96	0.47
1:B:1163:THR:HG22	1:B:1168:VAL:HG22	1.96	0.47
1:B:1440:PHE:CZ	1:B:1563:GLN:HB2	2.49	0.47
1:B:2352:VAL:O	1:B:2356:LEU:HG	2.14	0.47
1:B:3192:GLU:O	1:B:3196:ARG:HG2	2.13	0.47
1:B:3811:GLU:O	1:B:3814:GLN:HG3	2.14	0.47
1:B:4000:MET:HE1	1:B:4061:PHE:CG	2.49	0.47
1:E:893:TYR:H	1:E:962:SER:HB2	1.78	0.47
1:E:1163:THR:HG22	1:E:1168:VAL:HG22	1.96	0.47
1:E:1440:PHE:CZ	1:E:1563:GLN:HB2	2.49	0.47
1:E:2352:VAL:O	1:E:2356:LEU:HG	2.14	0.47
1:E:2500:ALA:HB2	1:E:2553:TYR:HD1	1.78	0.47
1:E:4021:LYS:O	1:E:4025:VAL:HG23	2.14	0.47
1:E:4704:LEU:HA	1:E:4774:LYS:HE2	1.95	0.47
1:G:1964:ARG:O	1:G:1968:LYS:HG3	2.14	0.47
1:G:3729:MET:HE3	1:G:3770:LEU:HD13	1.95	0.47
1:J:3103:ILE:O	1:J:3107:VAL:HG13	2.13	0.47
3:M:6:GLU:HA	3:M:21:SER:O	2.14	0.47
1:B:730:VAL:HA	1:B:1476:MET:CE	2.38	0.47
1:B:3051:ARG:HD2	1:B:3131:TYR:CE2	2.49	0.47
1:B:3445:TRP:HD1	1:B:3451:PHE:CE2	2.32	0.47
1:B:4023:MET:O	1:B:4027:LEU:HG	2.14	0.47
1:B:4704:LEU:HA	1:B:4774:LYS:HE2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:5003:HIS:HD2	1:B:5007:GLU:HB3	1.79	0.47
1:E:462:GLU:HG2	1:E:3710:LEU:HD13	1.96	0.47
1:E:1297:PHE:HA	1:E:1522:LEU:HD22	1.96	0.47
1:E:2694:GLU:OE1	1:E:2697:ARG:NH2	2.47	0.47
1:E:2823:ILE:HD12	1:E:2935:TYR:CD1	2.49	0.47
1:E:2888:ARG:O	1:E:2892:GLN:HG2	2.14	0.47
1:E:4000:MET:HE1	1:E:4061:PHE:CG	2.49	0.47
1:E:4586:PRO:HB3	1:E:4628:VAL:HG21	1.96	0.47
1:G:51:PRO:C	1:G:53:SER:H	2.22	0.47
1:G:2447:LYS:O	1:G:2451:LEU:HG	2.14	0.47
1:G:3445:TRP:HD1	1:G:3451:PHE:CE2	2.32	0.47
1:G:3548:GLU:HG2	1:G:3552:PHE:CE2	2.49	0.47
1:G:4651:THR:OG1	1:G:4803:HIS:NE2	2.32	0.47
1:G:4704:LEU:HA	1:G:4774:LYS:HE2	1.95	0.47
1:G:4927:ILE:HD12	1:J:4936:ILE:HD13	1.96	0.47
1:J:952:LYS:HG2	1:J:970:LEU:HA	1.96	0.47
1:J:1452:TRP:NE1	1:J:1527:MET:HE2	2.29	0.47
1:J:3047:ALA:HB1	1:J:3095:PHE:CE1	2.49	0.47
1:J:3309:SER:HA	1:J:3312:LEU:HG	1.95	0.47
1:B:652:ARG:HG2	1:B:750:LEU:HB3	1.95	0.47
1:B:867:LEU:HD12	1:B:871:ARG:HE	1.80	0.47
1:B:1095:VAL:O	1:B:1145:SER:OG	2.25	0.47
1:B:1229:ASN:HD22	1:B:1827:ARG:HG3	1.79	0.47
1:B:1714:LEU:O	1:B:1718:ILE:HG12	2.14	0.47
1:B:1866:ILE:O	1:B:1926:LEU:N	2.45	0.47
1:B:3137:LEU:HB3	1:B:3138:PRO:HD3	1.96	0.47
1:E:3103:ILE:O	1:E:3107:VAL:HG13	2.13	0.47
1:E:4989:MET:SD	1:E:4993:MET:HE2	2.54	0.47
1:G:1163:THR:HG22	1:G:1168:VAL:HG22	1.96	0.47
1:G:2376:LEU:O	1:G:2380:ILE:HG12	2.13	0.47
1:G:2694:GLU:OE1	1:G:2697:ARG:NH2	2.47	0.47
1:G:2886:TRP:CD1	1:G:2889:LYS:HE2	2.50	0.47
1:G:2888:ARG:O	1:G:2892:GLN:HG2	2.14	0.47
1:G:3086:GLU:HA	1:G:3089:LYS:HE3	1.96	0.47
1:G:3194:LEU:HD11	1:G:3275:PRO:HB2	1.96	0.47
1:J:40:GLU:O	1:J:114:SER:OG	2.32	0.47
1:J:998:ARG:HA	1:J:1001:VAL:HG22	1.95	0.47
1:J:2883:HIS:NE2	1:J:2906:VAL:O	2.46	0.47
1:J:3051:ARG:HD2	1:J:3131:TYR:CE2	2.49	0.47
1:J:3946:GLN:OE1	1:J:3949:ARG:NH2	2.48	0.47
1:J:5003:HIS:HD2	1:J:5007:GLU:HB3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:30:LEU:HD12	2:H:36:PHE:HD2	1.79	0.47
3:F:102:ASN:HB2	3:F:104:TYR:CE2	2.49	0.47
1:B:993:HIS:CE1	1:B:1027:LEU:HD11	2.49	0.47
1:B:2673:HIS:CE1	1:B:2677:LYS:HE2	2.48	0.47
1:B:3828:PHE:O	1:B:3832:ILE:HG12	2.15	0.47
1:E:952:LYS:HG2	1:E:970:LEU:HA	1.96	0.47
1:E:1452:TRP:NE1	1:E:1527:MET:HE2	2.29	0.47
1:E:2096:GLU:O	1:E:2100:HIS:ND1	2.48	0.47
1:E:2633:LEU:HB2	1:E:2689:LYS:HE2	1.96	0.47
1:E:3099:ALA:O	1:E:3103:ILE:HG12	2.14	0.47
1:E:5003:HIS:HD2	1:E:5007:GLU:HB3	1.79	0.47
1:G:1297:PHE:HA	1:G:1522:LEU:HD22	1.96	0.47
1:G:2747:ILE:HD11	1:G:2751:LEU:HD11	1.96	0.47
1:G:2823:ILE:HD12	1:G:2935:TYR:CD1	2.49	0.47
1:G:3946:GLN:OE1	1:G:3949:ARG:NH2	2.48	0.47
1:G:4580:TYR:HA	1:G:4632:LEU:H	1.79	0.47
1:J:1225:PRO:HG2	1:J:1228:ILE:HD12	1.95	0.47
1:J:2886:TRP:CD1	1:J:2889:LYS:HE2	2.50	0.47
1:J:4023:MET:O	1:J:4027:LEU:HG	2.15	0.47
2:A:7:ILE:HD11	2:A:73:LYS:HB2	1.96	0.47
3:F:6:GLU:HA	3:F:21:SER:O	2.14	0.47
3:K:102:ASN:HB2	3:K:104:TYR:CE2	2.49	0.47
1:B:1297:PHE:HA	1:B:1522:LEU:HD22	1.96	0.47
1:B:3159:ASP:HA	1:B:3162:GLN:HE21	1.78	0.47
1:B:3309:SER:HA	1:B:3312:LEU:HG	1.96	0.47
1:B:3428:ASN:O	1:B:3432:GLU:HG2	2.14	0.47
1:B:3442:PHE:HE1	1:B:3510:ILE:HG22	1.80	0.47
1:E:51:PRO:C	1:E:53:SER:H	2.22	0.47
1:E:525:LEU:O	1:E:529:LEU:HG	2.15	0.47
1:E:3086:GLU:HA	1:E:3089:LYS:HE3	1.96	0.47
1:E:3428:ASN:O	1:E:3432:GLU:HG2	2.14	0.47
1:G:1007:TYR:O	1:G:1017:ARG:NH2	2.48	0.47
1:G:1439:VAL:HB	1:G:1514:LEU:HB3	1.95	0.47
1:G:1741:GLU:O	1:G:1745:ILE:HG13	2.15	0.47
1:G:2096:GLU:O	1:G:2100:HIS:ND1	2.48	0.47
1:G:3639:THR:N	1:G:3640:PRO:HD2	2.29	0.47
1:J:2595:LEU:HB2	1:J:2600:ARG:NE	2.25	0.47
1:J:3034:LYS:O	1:J:3037:GLU:HG3	2.15	0.47
1:J:3828:PHE:O	1:J:3832:ILE:HG12	2.14	0.47
3:C:6:GLU:HA	3:C:21:SER:O	2.14	0.47
1:B:1452:TRP:CZ3	1:B:1550:PRO:HG3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1699:GLU:HG3	1:B:1810:LYS:NZ	2.30	0.47
1:B:1741:GLU:O	1:B:1745:ILE:HG13	2.15	0.47
1:B:1965:TYR:CZ	1:B:2031:LEU:HB2	2.50	0.47
1:B:4989:MET:SD	1:B:4993:MET:HE2	2.54	0.47
1:E:51:PRO:O	1:E:53:SER:N	2.47	0.47
1:E:867:LEU:HD12	1:E:871:ARG:HE	1.79	0.47
1:E:2447:LYS:O	1:E:2451:LEU:HG	2.14	0.47
1:E:3137:LEU:HB3	1:E:3138:PRO:HD3	1.96	0.47
1:E:3445:TRP:HD1	1:E:3451:PHE:CE2	2.32	0.47
1:E:3676:ASP:HA	1:E:3679:LYS:HE2	1.97	0.47
1:G:404:ILE:HD13	1:G:481:GLU:HG3	1.96	0.47
1:G:867:LEU:HD12	1:G:871:ARG:HE	1.80	0.47
1:G:993:HIS:CE1	1:G:1027:LEU:HD11	2.49	0.47
1:G:1822:GLY:HA3	1:G:1838:PHE:HZ	1.79	0.47
1:G:2352:VAL:O	1:G:2356:LEU:HG	2.14	0.47
1:G:3034:LYS:O	1:G:3037:GLU:HG3	2.15	0.47
1:G:3986:TRP:CD1	1:G:3986:TRP:H	2.33	0.47
1:J:931:THR:O	1:J:935:LEU:HG	2.14	0.47
1:J:1452:TRP:CZ3	1:J:1550:PRO:HG3	2.49	0.47
1:J:2247:GLN:HG3	1:J:2279:SER:HA	1.96	0.47
1:J:2694:GLU:OE1	1:J:2697:ARG:NH2	2.47	0.47
1:J:3445:TRP:HD1	1:J:3451:PHE:CE2	2.33	0.47
1:J:4725:LEU:HA	1:J:4737:ILE:HG21	1.97	0.47
3:C:102:ASN:HB2	3:C:104:TYR:CE2	2.50	0.47
3:K:105:ASN:ND2	3:K:108:GLY:H	2.12	0.47
1:B:525:LEU:O	1:B:529:LEU:HG	2.15	0.47
1:B:920:TYR:O	1:B:923:GLN:HG2	2.15	0.47
1:B:1100:MET:HB2	1:B:1143:TRP:CH2	2.50	0.47
1:B:2499:LYS:HA	1:B:2502:MET:HG3	1.96	0.47
1:B:2633:LEU:HB2	1:B:2689:LYS:HE2	1.96	0.47
1:B:2823:ILE:HD12	1:B:2935:TYR:CD1	2.49	0.47
1:B:2886:TRP:CD1	1:B:2889:LYS:HE2	2.50	0.47
1:B:3099:ALA:O	1:B:3103:ILE:HG12	2.14	0.47
1:B:3107:VAL:HG12	1:B:3175:LEU:HD23	1.96	0.47
1:B:3107:VAL:HG12	1:B:3175:LEU:HB3	1.96	0.47
1:B:3172:ILE:O	1:B:3175:LEU:HG	2.15	0.47
1:B:3194:LEU:HD11	1:B:3275:PRO:HB2	1.96	0.47
1:B:3639:THR:N	1:B:3640:PRO:HD2	2.29	0.47
1:B:3891:LEU:O	1:B:3896:ASN:ND2	2.36	0.47
1:B:4021:LYS:O	1:B:4025:VAL:HG23	2.14	0.47
1:B:4661:TYR:OH	1:B:4786:ASP:OD2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1067:SER:O	1:E:1071:ARG:HD2	2.14	0.47
1:E:1452:TRP:CZ3	1:E:1550:PRO:HG3	2.50	0.47
1:E:2312:MET:SD	1:E:2313:LEU:HD22	2.54	0.47
1:E:2747:ILE:HD11	1:E:2751:LEU:HD11	1.96	0.47
1:E:2792:ARG:HB2	1:E:2793:PRO:HD2	1.97	0.47
1:E:3047:ALA:HB1	1:E:3095:PHE:CE1	2.49	0.47
1:E:3107:VAL:HG12	1:E:3175:LEU:HD23	1.96	0.47
1:E:3172:ILE:O	1:E:3175:LEU:HG	2.15	0.47
1:E:3309:SER:HA	1:E:3312:LEU:HG	1.95	0.47
1:E:3548:GLU:HG2	1:E:3552:PHE:CE2	2.49	0.47
1:E:4020:GLN:HG2	1:E:4139:ILE:HD11	1.97	0.47
1:E:4023:MET:O	1:E:4027:LEU:HG	2.15	0.47
1:E:4088:ILE:HD12	1:E:4093:PHE:CD1	2.50	0.47
1:E:4936:ILE:HD13	1:J:4927:ILE:HD12	1.97	0.47
1:G:1440:PHE:CZ	1:G:1563:GLN:HB2	2.49	0.47
1:G:2439:GLU:O	1:G:2443:ILE:HG12	2.15	0.47
1:G:3051:ARG:HD2	1:G:3131:TYR:CE2	2.49	0.47
1:G:3099:ALA:O	1:G:3103:ILE:HG12	2.14	0.47
1:G:3107:VAL:HG12	1:G:3175:LEU:HB3	1.96	0.47
1:G:3172:ILE:O	1:G:3175:LEU:HG	2.15	0.47
1:G:3225:ARG:O	1:G:3229:ILE:HG23	2.15	0.47
1:G:3828:PHE:O	1:G:3832:ILE:HG12	2.15	0.47
1:G:4000:MET:HE1	1:G:4061:PHE:CG	2.49	0.47
1:J:993:HIS:CE1	1:J:1027:LEU:HD11	2.49	0.47
1:J:1440:PHE:CZ	1:J:1563:GLN:HB2	2.49	0.47
1:J:2633:LEU:HB2	1:J:2689:LYS:HE2	1.96	0.47
1:J:3099:ALA:O	1:J:3103:ILE:HG12	2.14	0.47
1:J:3137:LEU:HB3	1:J:3138:PRO:HD3	1.97	0.47
1:J:4953:ASP:O	1:J:4956:THR:OG1	2.28	0.47
2:A:30:LEU:HD12	2:A:36:PHE:HD2	1.79	0.47
2:D:30:LEU:HD12	2:D:36:PHE:HD2	1.80	0.47
1:B:45:ARG:HB2	1:B:137:LEU:HB2	1.97	0.47
1:B:998:ARG:HA	1:B:1001:VAL:HG22	1.95	0.47
1:B:1573:MET:HA	1:B:1573:MET:HE2	1.97	0.47
1:B:2247:GLN:HG3	1:B:2279:SER:HA	1.96	0.47
1:B:2439:GLU:O	1:B:2443:ILE:HG12	2.15	0.47
1:B:2747:ILE:HD11	1:B:2751:LEU:HD11	1.96	0.47
1:E:4094:GLN:HG3	1:E:4108:ILE:HG21	1.97	0.47
1:G:1452:TRP:CZ3	1:G:1550:PRO:HG3	2.49	0.47
1:G:1699:GLU:HG3	1:G:1810:LYS:NZ	2.30	0.47
1:G:2913:ALA:HA	1:G:2916:LYS:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3816:MET:O	1:G:3820:LEU:HG	2.15	0.47
1:G:4725:LEU:HA	1:G:4737:ILE:HG21	1.97	0.47
1:J:51:PRO:O	1:J:53:SER:N	2.47	0.47
1:J:985:VAL:HG11	1:J:1040:CYS:SG	2.55	0.47
1:J:1822:GLY:HA3	1:J:1838:PHE:HZ	1.79	0.47
1:J:2096:GLU:O	1:J:2100:HIS:ND1	2.48	0.47
1:J:2439:GLU:O	1:J:2443:ILE:HG12	2.15	0.47
1:J:2499:LYS:HA	1:J:2502:MET:HG3	1.96	0.47
1:J:4989:MET:SD	1:J:4993:MET:HE2	2.54	0.47
1:B:977:LEU:HD12	1:B:1044:ARG:HD3	1.97	0.47
1:B:1452:TRP:NE1	1:B:1527:MET:HE2	2.29	0.47
1:B:3180:ASN:OD1	1:B:3181:THR:N	2.48	0.47
1:B:3225:ARG:O	1:B:3229:ILE:HG23	2.15	0.47
1:B:3699:HIS:HA	1:B:3702:VAL:HG22	1.97	0.47
1:E:341:TYR:CE2	1:E:392:ARG:HB2	2.50	0.47
1:E:1100:MET:HB2	1:E:1143:TRP:CH2	2.50	0.47
1:E:1161:ILE:HG12	1:E:1177:THR:HG22	1.96	0.47
1:E:3729:MET:HE3	1:E:3770:LEU:HD13	1.95	0.47
1:E:3811:GLU:O	1:E:3814:GLN:HG3	2.14	0.47
1:G:1814:MET:HA	1:G:1817:GLU:HG2	1.97	0.47
1:G:1965:TYR:CZ	1:G:2031:LEU:HB2	2.50	0.47
1:G:2499:LYS:HA	1:G:2502:MET:HG3	1.96	0.47
1:J:1161:ILE:HG12	1:J:1177:THR:HG22	1.96	0.47
1:J:1528:THR:HG23	1:J:1539:PHE:CE1	2.46	0.47
1:J:3107:VAL:HG12	1:J:3175:LEU:HB3	1.96	0.47
1:J:3172:ILE:O	1:J:3175:LEU:HG	2.15	0.47
1:J:3442:PHE:HE1	1:J:3510:ILE:HG22	1.80	0.47
1:J:3540:TYR:CZ	1:J:3549:VAL:HG21	2.50	0.47
1:J:3811:GLU:O	1:J:3814:GLN:HG3	2.14	0.47
1:J:4020:GLN:HG2	1:J:4139:ILE:HD11	1.97	0.47
3:K:15:GLY:H	3:K:85:LEU:HB2	1.80	0.47
3:M:102:ASN:HB2	3:M:104:TYR:CE2	2.49	0.47
1:B:51:PRO:C	1:B:53:SER:H	2.22	0.47
1:B:1005:TRP:HE3	1:B:1021:LEU:HD11	1.80	0.47
1:B:1258:ALA:HB3	1:B:1271:ARG:HB3	1.96	0.47
1:B:2325:PRO:HB2	1:B:2421:ALA:HB1	1.97	0.47
1:B:2509:VAL:HG23	1:B:2510:TYR:H	1.79	0.47
1:B:2584:HIS:O	1:B:2588:ARG:HG3	2.15	0.47
1:B:2792:ARG:HB2	1:B:2793:PRO:HD2	1.97	0.47
1:B:3986:TRP:CD1	1:B:3986:TRP:H	2.33	0.47
1:E:977:LEU:HD12	1:E:1044:ARG:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1007:TYR:O	1:E:1017:ARG:NH2	2.48	0.47
1:E:1100:MET:SD	1:E:1194:LEU:HG	2.55	0.47
1:E:1699:GLU:HG3	1:E:1810:LYS:NZ	2.30	0.47
1:E:1822:GLY:HA3	1:E:1838:PHE:HZ	1.79	0.47
1:E:2886:TRP:CD1	1:E:2889:LYS:HE2	2.50	0.47
1:E:3003:LEU:HB2	1:E:3004:PRO:HD3	1.97	0.47
1:E:3699:HIS:HA	1:E:3702:VAL:HG22	1.97	0.47
1:G:525:LEU:O	1:G:529:LEU:HG	2.15	0.47
1:G:1619:ARG:HA	1:G:1626:TRP:HA	1.97	0.47
1:G:2792:ARG:HB2	1:G:2793:PRO:HD2	1.97	0.47
1:G:3290:GLU:OE1	1:G:3309:SER:N	2.44	0.47
1:G:3811:GLU:O	1:G:3814:GLN:HG3	2.14	0.47
1:G:4094:GLN:HG3	1:G:4108:ILE:HG21	1.97	0.47
1:J:341:TYR:CE2	1:J:392:ARG:HB2	2.50	0.47
1:J:891:TRP:HA	1:J:902:ARG:HB3	1.97	0.47
1:J:1229:ASN:HD22	1:J:1827:ARG:HG3	1.79	0.47
1:J:1245:PHE:CD2	1:J:1290:ARG:HG2	2.51	0.47
1:J:1439:VAL:HB	1:J:1514:LEU:HB3	1.95	0.47
1:J:1699:GLU:HG3	1:J:1810:LYS:NZ	2.30	0.47
1:J:2747:ILE:HD11	1:J:2751:LEU:HD11	1.96	0.47
1:J:3704:HIS:O	1:J:3708:THR:HG23	2.15	0.47
1:J:4000:MET:HE1	1:J:4061:PHE:CG	2.49	0.47
1:J:4088:ILE:HD12	1:J:4093:PHE:CD1	2.50	0.47
1:B:985:VAL:HG11	1:B:1040:CYS:SG	2.55	0.46
1:B:1067:SER:O	1:B:1071:ARG:HD2	2.14	0.46
1:B:3034:LYS:O	1:B:3037:GLU:HG3	2.15	0.46
1:B:3057:PHE:HB2	1:B:3060:ASP:HB2	1.97	0.46
1:B:3540:TYR:CZ	1:B:3549:VAL:HG21	2.50	0.46
1:B:3704:HIS:O	1:B:3708:THR:HG23	2.15	0.46
1:E:985:VAL:HG11	1:E:1040:CYS:SG	2.55	0.46
1:E:993:HIS:CE1	1:E:1027:LEU:HD11	2.49	0.46
1:E:1573:MET:HA	1:E:1573:MET:HE2	1.97	0.46
1:E:1699:GLU:HG3	1:E:1810:LYS:HZ2	1.81	0.46
1:E:1782:PHE:O	2:D:82:TYR:OH	2.24	0.46
1:E:3180:ASN:OD1	1:E:3181:THR:N	2.48	0.46
1:E:3225:ARG:O	1:E:3229:ILE:HG23	2.15	0.46
1:E:3727:ASP:HB3	1:E:3731:LYS:HZ1	1.80	0.46
1:G:893:TYR:H	1:G:962:SER:HB2	1.78	0.46
1:G:3107:VAL:HG12	1:G:3175:LEU:HD23	1.96	0.46
1:G:4989:MET:SD	1:G:4993:MET:HE2	2.54	0.46
1:J:404:ILE:HD13	1:J:481:GLU:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:867:LEU:HD12	1:J:871:ARG:HE	1.80	0.46
1:J:1007:TYR:O	1:J:1017:ARG:NH2	2.48	0.46
1:J:1452:TRP:CD1	1:J:1527:MET:HE2	2.50	0.46
1:J:1573:MET:HA	1:J:1573:MET:HE2	1.97	0.46
1:J:2509:VAL:HG23	1:J:2510:TYR:H	1.79	0.46
1:J:3548:GLU:HG2	1:J:3552:PHE:CE2	2.49	0.46
1:J:4666:VAL:HG11	1:J:4783:ILE:HD12	1.97	0.46
2:I:19:GLY:HA2	2:I:49:ARG:HD3	1.97	0.46
3:F:94:TYR:CD1	3:F:120:GLY:HA3	2.51	0.46
1:B:404:ILE:HD13	1:B:481:GLU:HG3	1.96	0.46
1:B:1822:GLY:HA3	1:B:1838:PHE:HZ	1.79	0.46
1:B:4088:ILE:HD12	1:B:4093:PHE:CD1	2.50	0.46
1:E:40:GLU:O	1:E:114:SER:OG	2.32	0.46
1:E:1005:TRP:HE3	1:E:1021:LEU:HD11	1.80	0.46
1:E:2389:ASP:OD2	1:E:2392:ARG:NE	2.49	0.46
1:E:2443:ILE:HD12	1:E:2454:ARG:HH11	1.80	0.46
1:E:3034:LYS:O	1:E:3037:GLU:HG3	2.15	0.46
1:E:3051:ARG:HD2	1:E:3131:TYR:CE2	2.49	0.46
1:E:3107:VAL:HG12	1:E:3175:LEU:HB3	1.96	0.46
1:G:995:VAL:HA	1:G:998:ARG:HG2	1.96	0.46
1:G:1100:MET:HB2	1:G:1143:TRP:CH2	2.50	0.46
1:G:1758:ARG:NH1	1:G:2037:ASP:OD1	2.49	0.46
1:G:3137:LEU:HB3	1:G:3138:PRO:HD3	1.96	0.46
1:G:3428:ASN:O	1:G:3432:GLU:HG2	2.14	0.46
1:G:3704:HIS:O	1:G:3708:THR:HG23	2.15	0.46
1:G:3886:ARG:CD	1:G:3889:GLN:HE21	2.28	0.46
1:G:4088:ILE:HD12	1:G:4093:PHE:CD1	2.50	0.46
1:G:4666:VAL:HG11	1:G:4783:ILE:HD12	1.97	0.46
1:J:3225:ARG:O	1:J:3229:ILE:HG23	2.15	0.46
1:J:3443:ILE:HG22	1:J:3605:HIS:ND1	2.31	0.46
1:B:1100:MET:SD	1:B:1194:LEU:HG	2.56	0.46
1:B:1758:ARG:NH1	1:B:2037:ASP:OD1	2.49	0.46
1:B:2096:GLU:O	1:B:2100:HIS:ND1	2.48	0.46
1:B:3017:PHE:HB2	1:B:3074:SER:HB2	1.98	0.46
1:B:3996:PHE:O	1:B:4000:MET:HG3	2.16	0.46
1:B:4105:GLY:O	1:B:4109:GLN:HG2	2.16	0.46
1:B:4835:LYS:HD3	1:B:4835:LYS:N	2.31	0.46
1:B:4936:ILE:HD13	1:E:4927:ILE:HD12	1.97	0.46
1:E:891:TRP:HA	1:E:902:ARG:HB3	1.97	0.46
1:E:920:TYR:O	1:E:923:GLN:HG2	2.15	0.46
1:E:1860:LYS:HG2	1:E:1864:LYS:HE2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2509:VAL:HG23	1:E:2510:TYR:H	1.79	0.46
1:E:3828:PHE:O	1:E:3832:ILE:HG12	2.15	0.46
1:G:1245:PHE:CD2	1:G:1290:ARG:HG2	2.50	0.46
1:G:3180:ASN:OD1	1:G:3181:THR:N	2.48	0.46
1:G:3540:TYR:CZ	1:G:3549:VAL:HG21	2.50	0.46
1:G:4105:GLY:O	1:G:4109:GLN:HG2	2.16	0.46
1:J:525:LEU:O	1:J:529:LEU:HG	2.15	0.46
1:J:1619:ARG:HA	1:J:1626:TRP:HA	1.97	0.46
1:J:1691:GLN:HE22	1:J:1803:PRO:HD2	1.81	0.46
1:J:1714:LEU:O	1:J:1718:ILE:HG12	2.14	0.46
1:J:3057:PHE:HB2	1:J:3060:ASP:HB2	1.97	0.46
3:C:94:TYR:CD1	3:C:120:GLY:HA3	2.51	0.46
3:M:15:GLY:H	3:M:85:LEU:HB2	1.80	0.46
3:M:94:TYR:CD1	3:M:120:GLY:HA3	2.50	0.46
1:B:917:GLU:OE2	3:C:101:PRO:HB2	2.16	0.46
1:B:1814:MET:HA	1:B:1817:GLU:HG2	1.97	0.46
1:B:1860:LYS:HG2	1:B:1864:LYS:HE2	1.98	0.46
1:B:3086:GLU:HA	1:B:3089:LYS:HE3	1.96	0.46
1:B:3816:MET:O	1:B:3820:LEU:HG	2.15	0.46
1:B:4020:GLN:HG2	1:B:4139:ILE:HD11	1.97	0.46
1:E:995:VAL:HA	1:E:998:ARG:HG2	1.96	0.46
1:E:1934:SER:O	1:E:1938:GLN:HG2	2.16	0.46
1:E:4779:LYS:HA	1:E:4782:VAL:HG22	1.98	0.46
1:G:356:TRP:N	1:G:379:HIS:O	2.38	0.46
1:G:1452:TRP:NE1	1:G:1527:MET:HE2	2.29	0.46
1:G:1573:MET:HE2	1:G:1573:MET:HA	1.97	0.46
1:G:1860:LYS:HG2	1:G:1864:LYS:HE2	1.98	0.46
1:G:2633:LEU:HB2	1:G:2689:LYS:HE2	1.96	0.46
1:G:3511:VAL:HG22	1:G:3516:LYS:NZ	2.31	0.46
1:J:730:VAL:HA	1:J:1476:MET:CE	2.37	0.46
1:J:844:ARG:HH12	1:J:1071:ARG:HH21	1.63	0.46
1:J:3180:ASN:OD1	1:J:3181:THR:N	2.48	0.46
1:J:3181:THR:O	1:J:3185:LYS:HG2	2.16	0.46
1:B:356:TRP:N	1:B:379:HIS:O	2.38	0.46
1:B:1007:TYR:O	1:B:1017:ARG:NH2	2.48	0.46
1:B:2892:GLN:O	1:B:2895:GLU:HG2	2.16	0.46
1:B:2906:VAL:HG23	1:B:2911:LEU:HB3	1.97	0.46
1:B:3568:SER:O	1:B:3571:TRP:NE1	2.49	0.46
1:B:4745:LEU:O	1:B:4748:LEU:HG	2.15	0.46
1:E:844:ARG:HH12	1:E:1071:ARG:HH21	1.63	0.46
1:E:1452:TRP:CD1	1:E:1527:MET:HE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1477:GLY:HA2	1:E:1483:VAL:HA	1.98	0.46
1:E:1708:ARG:O	1:E:1712:TYR:HD1	1.99	0.46
1:E:1965:TYR:CZ	1:E:2031:LEU:HB2	2.50	0.46
1:E:2499:LYS:HA	1:E:2502:MET:HG3	1.96	0.46
1:E:3443:ILE:HG22	1:E:3605:HIS:ND1	2.31	0.46
1:E:3529:ASP:O	1:E:3533:ILE:HG12	2.16	0.46
1:E:3704:HIS:O	1:E:3708:THR:HG23	2.15	0.46
1:E:3946:GLN:OE1	1:E:3949:ARG:NH2	2.48	0.46
1:E:3986:TRP:CD1	1:E:3986:TRP:H	2.33	0.46
1:G:985:VAL:HG11	1:G:1040:CYS:SG	2.55	0.46
1:G:1691:GLN:HE22	1:G:1803:PRO:HD2	1.81	0.46
1:G:2325:PRO:HB2	1:G:2421:ALA:HB1	1.97	0.46
1:G:3443:ILE:HG22	1:G:3605:HIS:ND1	2.31	0.46
1:G:3529:ASP:O	1:G:3533:ILE:HG12	2.16	0.46
1:G:4992:LEU:O	1:G:4996:ILE:HG13	2.16	0.46
1:J:231:LEU:HD11	1:J:245:VAL:HB	1.97	0.46
1:J:1005:TRP:HE3	1:J:1021:LEU:HD11	1.80	0.46
1:J:1100:MET:SD	1:J:1194:LEU:HG	2.56	0.46
1:J:1100:MET:HB2	1:J:1143:TRP:CH2	2.50	0.46
1:J:1741:GLU:O	1:J:1745:ILE:HG13	2.15	0.46
1:J:1934:SER:O	1:J:1938:GLN:HG2	2.16	0.46
1:J:2792:ARG:HB2	1:J:2793:PRO:HD2	1.97	0.46
1:J:3003:LEU:HB2	1:J:3004:PRO:HD3	1.97	0.46
1:J:3816:MET:O	1:J:3820:LEU:HG	2.15	0.46
3:C:15:GLY:H	3:C:85:LEU:HB2	1.80	0.46
1:B:276:TRP:HZ3	1:B:346:CYS:HA	1.81	0.46
1:B:920:TYR:HE1	3:C:99:ARG:HE	1.59	0.46
1:B:1002:ALA:HB1	3:C:1:GLN:HE21	1.80	0.46
1:B:1691:GLN:HE22	1:B:1803:PRO:HD2	1.81	0.46
1:B:4666:VAL:HG11	1:B:4783:ILE:HD12	1.97	0.46
1:E:1714:LEU:O	1:E:1718:ILE:HG12	2.14	0.46
1:E:1758:ARG:NH1	1:E:2037:ASP:OD1	2.49	0.46
1:E:2584:HIS:O	1:E:2588:ARG:HG3	2.15	0.46
1:E:2707:ALA:HB1	1:E:3009:TYR:HD1	1.81	0.46
1:E:2906:VAL:HG23	1:E:2911:LEU:HB3	1.97	0.46
1:E:3181:THR:O	1:E:3185:LYS:HG2	2.16	0.46
1:E:3996:PHE:O	1:E:4000:MET:HG3	2.16	0.46
1:E:4666:VAL:HG11	1:E:4783:ILE:HD12	1.97	0.46
1:E:4700:GLN:OE1	1:E:4703:ARG:NH1	2.49	0.46
1:E:4725:LEU:HA	1:E:4737:ILE:HG21	1.97	0.46
1:G:157:ARG:HH21	1:G:161:GLU:HB3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:341:TYR:CE2	1:G:392:ARG:HB2	2.50	0.46
1:G:960:MET:O	1:G:961:MET:HE2	2.16	0.46
1:G:1100:MET:SD	1:G:1194:LEU:HG	2.55	0.46
1:G:1699:GLU:HG3	1:G:1810:LYS:HZ2	1.79	0.46
1:G:2588:ARG:HA	1:G:2591:ARG:HE	1.81	0.46
1:G:2702:CYS:O	1:G:2706:ILE:HG13	2.16	0.46
1:G:3676:ASP:HA	1:G:3679:LYS:HE2	1.96	0.46
1:J:213:TYR:C	1:J:341:TYR:HB2	2.41	0.46
1:J:918:ARG:O	1:J:922:LEU:HG	2.16	0.46
1:J:960:MET:O	1:J:961:MET:HE2	2.16	0.46
1:J:996:TRP:NE1	3:K:113:GLU:HB3	2.30	0.46
1:J:1561:VAL:HG23	1:J:1562:ILE:N	2.31	0.46
1:J:1699:GLU:HG3	1:J:1810:LYS:HZ2	1.81	0.46
1:J:3290:GLU:OE1	1:J:3309:SER:N	2.44	0.46
1:J:3367:LYS:O	1:J:3371:LYS:HG2	2.16	0.46
1:J:3529:ASP:O	1:J:3533:ILE:HG12	2.16	0.46
2:D:19:GLY:HA2	2:D:49:ARG:HD3	1.97	0.46
1:B:1452:TRP:CD1	1:B:1527:MET:HE2	2.50	0.46
1:B:2529:ASP:HB3	1:B:2554:LEU:HD21	1.98	0.46
1:B:2748:PRO:HB2	1:B:2750:LYS:HG2	1.98	0.46
1:B:3752:SER:O	1:B:3756:LYS:HG3	2.16	0.46
1:B:4094:GLN:HG3	1:B:4108:ILE:HG21	1.97	0.46
1:E:1561:VAL:HG23	1:E:1562:ILE:N	2.31	0.46
1:E:2529:ASP:HB3	1:E:2554:LEU:HD21	1.98	0.46
1:E:2588:ARG:HA	1:E:2591:ARG:HE	1.81	0.46
1:E:2970:SER:HB3	1:E:2998:PHE:CE2	2.51	0.46
1:E:3442:PHE:HE1	1:E:3510:ILE:HG22	1.80	0.46
1:E:3568:SER:O	1:E:3571:TRP:NE1	2.49	0.46
1:E:4772:ASP:OD1	1:E:4772:ASP:N	2.49	0.46
1:G:45:ARG:HB2	1:G:137:LEU:HB2	1.97	0.46
1:G:891:TRP:HA	1:G:902:ARG:HB3	1.97	0.46
1:G:1452:TRP:CD1	1:G:1527:MET:HE2	2.50	0.46
1:G:1578:ALA:HA	1:G:1584:ARG:NH1	2.31	0.46
1:G:2624:ARG:HB3	1:G:2674:LEU:HD13	1.98	0.46
1:G:2957:PHE:HE1	1:G:2961:GLN:HE21	1.64	0.46
1:G:3367:LYS:O	1:G:3371:LYS:HG2	2.16	0.46
1:G:3996:PHE:O	1:G:4000:MET:HG3	2.16	0.46
1:J:1758:ARG:NH1	1:J:2037:ASP:OD1	2.49	0.46
1:J:1860:LYS:HG2	1:J:1864:LYS:HE2	1.98	0.46
1:J:1965:TYR:CZ	1:J:2031:LEU:HB2	2.50	0.46
1:J:2325:PRO:HB2	1:J:2421:ALA:HB1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2443:ILE:HD12	1:J:2454:ARG:HH11	1.80	0.46
1:J:2610:LEU:O	1:J:2614:ILE:HG12	2.16	0.46
1:J:2957:PHE:HE1	1:J:2961:GLN:HE21	1.64	0.46
1:J:3511:VAL:HG22	1:J:3516:LYS:NZ	2.31	0.46
1:J:3980:LEU:CD1	1:J:4030:LEU:HD21	2.46	0.46
1:J:3986:TRP:CD1	1:J:3986:TRP:H	2.33	0.46
1:J:4094:GLN:HG3	1:J:4108:ILE:HG21	1.97	0.46
1:J:4779:LYS:HA	1:J:4782:VAL:HG22	1.98	0.46
1:B:677:ALA:HB1	2:A:40:ARG:HB3	1.98	0.46
1:B:3443:ILE:HG22	1:B:3605:HIS:ND1	2.31	0.46
1:B:3511:VAL:HG22	1:B:3516:LYS:NZ	2.31	0.46
1:B:3529:ASP:O	1:B:3533:ILE:HG12	2.16	0.46
1:B:3676:ASP:HA	1:B:3679:LYS:HE2	1.97	0.46
1:B:4725:LEU:HA	1:B:4737:ILE:HG21	1.97	0.46
1:E:276:TRP:HZ3	1:E:346:CYS:HA	1.81	0.46
1:E:404:ILE:HD13	1:E:481:GLU:HG3	1.96	0.46
1:E:2247:GLN:HG3	1:E:2279:SER:HA	1.96	0.46
1:E:2439:GLU:O	1:E:2443:ILE:HG12	2.15	0.46
1:E:4673:ARG:HH12	1:E:4698:LYS:HB2	1.81	0.46
1:E:4745:LEU:O	1:E:4748:LEU:HG	2.15	0.46
1:G:224:HIS:HA	1:G:388:LEU:HD22	1.98	0.46
1:G:231:LEU:HD11	1:G:245:VAL:HB	1.97	0.46
1:G:276:TRP:HZ3	1:G:346:CYS:HA	1.81	0.46
1:G:1557:THR:HG22	1:G:1557:THR:O	2.16	0.46
1:G:1934:SER:O	1:G:1938:GLN:HG2	2.16	0.46
1:G:3354:LEU:HB2	1:G:3415:TYR:HE2	1.81	0.46
1:G:3442:PHE:HE1	1:G:3510:ILE:HG22	1.80	0.46
1:G:3568:SER:O	1:G:3571:TRP:NE1	2.49	0.46
1:G:4745:LEU:O	1:G:4748:LEU:HG	2.15	0.46
1:G:4835:LYS:HD3	1:G:4835:LYS:N	2.31	0.46
1:J:157:ARG:HH21	1:J:161:GLU:HB3	1.81	0.46
1:J:1087:ARG:HB3	1:J:1223:PHE:HA	1.98	0.46
1:J:3676:ASP:HA	1:J:3679:LYS:HE2	1.97	0.46
1:J:4745:LEU:O	1:J:4748:LEU:HG	2.15	0.46
1:J:4772:ASP:OD1	1:J:4772:ASP:N	2.49	0.46
2:A:19:GLY:HA2	2:A:49:ARG:HD3	1.97	0.46
2:I:30:LEU:HD12	2:I:36:PHE:HD2	1.79	0.46
3:C:105:ASN:ND2	3:C:108:GLY:H	2.14	0.46
1:B:157:ARG:HH21	1:B:161:GLU:HB3	1.81	0.46
1:B:231:LEU:HD11	1:B:245:VAL:HB	1.97	0.46
1:B:341:TYR:CE2	1:B:392:ARG:HB2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:797:HIS:HE1	1:B:1626:TRP:HD1	1.63	0.46
1:B:1708:ARG:O	1:B:1712:TYR:HD1	1.99	0.46
1:B:2389:ASP:OD2	1:B:2392:ARG:NE	2.49	0.46
1:B:2913:ALA:HA	1:B:2916:LYS:HB3	1.97	0.46
1:E:73:LEU:HG	1:E:77:ALA:CB	2.46	0.46
1:E:918:ARG:O	1:E:922:LEU:HG	2.16	0.46
1:E:2624:ARG:HH22	1:E:2912:THR:CG2	2.28	0.46
1:E:2913:ALA:HA	1:E:2916:LYS:HB3	1.97	0.46
1:E:3540:TYR:CZ	1:E:3549:VAL:HG21	2.50	0.46
1:E:3816:MET:O	1:E:3820:LEU:HG	2.15	0.46
1:G:426:ARG:HG3	1:G:431:PRO:HD3	1.97	0.46
1:G:484:LEU:HD11	1:G:540:PHE:CE2	2.51	0.46
1:G:835:ARG:NH2	1:G:1203:ASN:HD22	2.09	0.46
1:G:2584:HIS:O	1:G:2588:ARG:HG3	2.15	0.46
1:G:2624:ARG:HH22	1:G:2912:THR:CG2	2.28	0.46
1:G:2883:HIS:CE1	1:G:2907:PRO:HA	2.51	0.46
1:G:3057:PHE:HB2	1:G:3060:ASP:HB2	1.97	0.46
1:G:3181:THR:O	1:G:3185:LYS:HG2	2.15	0.46
1:G:4700:GLN:OE1	1:G:4703:ARG:NH1	2.49	0.46
1:J:45:ARG:HB2	1:J:137:LEU:HB2	1.97	0.46
1:J:276:TRP:HZ3	1:J:346:CYS:HA	1.81	0.46
1:J:2702:CYS:O	1:J:2706:ILE:HG13	2.16	0.46
1:J:2892:GLN:O	1:J:2895:GLU:HG2	2.16	0.46
1:J:4673:ARG:HH12	1:J:4698:LYS:HB2	1.81	0.46
3:M:75:LYS:HE3	3:M:77:THR:OG1	2.16	0.46
1:B:195:PHE:HZ	1:G:2359:ARG:HH11	1.64	0.46
1:B:891:TRP:HA	1:B:902:ARG:HB3	1.97	0.46
1:B:901:LYS:HD3	1:B:903:LEU:HD11	1.98	0.46
1:B:1245:PHE:CD2	1:B:1290:ARG:HG2	2.51	0.46
1:B:1578:ALA:HA	1:B:1584:ARG:NH1	2.31	0.46
1:E:213:TYR:C	1:E:341:TYR:HB2	2.41	0.46
1:E:1691:GLN:HE22	1:E:1803:PRO:HD2	1.81	0.46
1:E:3199:ALA:O	1:E:3283:ARG:NE	2.49	0.46
1:E:3367:LYS:O	1:E:3371:LYS:HG2	2.16	0.46
1:E:3592:ILE:HA	1:E:3595:ARG:HE	1.81	0.46
1:E:3980:LEU:CD1	1:E:4030:LEU:HD21	2.46	0.46
1:G:677:ALA:HB1	2:H:40:ARG:HB3	1.98	0.46
1:G:920:TYR:O	1:G:923:GLN:HG2	2.15	0.46
1:G:2389:ASP:OD2	1:G:2392:ARG:NE	2.49	0.46
1:G:2443:ILE:HD12	1:G:2454:ARG:HH11	1.80	0.46
1:G:3199:ALA:O	1:G:3283:ARG:NE	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:3978:GLN:O	1:G:3982:HIS:ND1	2.49	0.46
1:G:4020:GLN:HG2	1:G:4139:ILE:HD11	1.97	0.46
1:J:1557:THR:HG22	1:J:1557:THR:O	2.16	0.46
1:J:1561:VAL:HG23	1:J:1562:ILE:H	1.81	0.46
1:J:2588:ARG:HA	1:J:2591:ARG:HE	1.81	0.46
1:J:2748:PRO:HB2	1:J:2750:LYS:HG2	1.98	0.46
1:J:3199:ALA:O	1:J:3283:ARG:NE	2.49	0.46
1:J:3568:SER:O	1:J:3571:TRP:NE1	2.49	0.46
1:J:4227:GLU:HA	1:J:4230:LYS:HB2	1.98	0.46
1:J:4835:LYS:HD3	1:J:4835:LYS:N	2.31	0.46
3:C:75:LYS:HE3	3:C:77:THR:OG1	2.16	0.46
3:F:40:ALA:HB3	3:F:43:LYS:HB2	1.98	0.46
3:F:105:ASN:ND2	3:F:108:GLY:H	2.14	0.46
3:K:75:LYS:HE3	3:K:77:THR:OG1	2.16	0.46
1:B:913:LEU:HB3	1:B:917:GLU:CB	2.46	0.45
1:B:1857:GLU:O	1:B:1861:GLN:HG3	2.16	0.45
1:B:2595:LEU:HB2	1:B:2600:ARG:NE	2.25	0.45
1:B:3367:LYS:O	1:B:3371:LYS:HG2	2.16	0.45
1:E:14:LEU:HD21	1:E:204:PRO:HG3	1.98	0.45
1:E:1087:ARG:HB3	1:E:1223:PHE:HA	1.98	0.45
1:E:1245:PHE:CD2	1:E:1290:ARG:HG2	2.50	0.45
1:E:1561:VAL:HG23	1:E:1562:ILE:H	1.81	0.45
1:E:1857:GLU:O	1:E:1861:GLN:HG3	2.16	0.45
1:E:2325:PRO:HB2	1:E:2421:ALA:HB1	1.97	0.45
1:E:2610:LEU:O	1:E:2614:ILE:HG12	2.16	0.45
1:E:2748:PRO:HB2	1:E:2750:LYS:HG2	1.98	0.45
1:E:4661:TYR:OH	1:E:4786:ASP:OD2	2.30	0.45
1:E:4835:LYS:HD3	1:E:4835:LYS:N	2.31	0.45
1:G:901:LYS:HD3	1:G:903:LEU:HD11	1.98	0.45
1:G:2529:ASP:HB3	1:G:2554:LEU:HD21	1.98	0.45
1:G:2610:LEU:O	1:G:2614:ILE:HG12	2.16	0.45
1:G:2892:GLN:O	1:G:2895:GLU:HG2	2.16	0.45
1:G:2970:SER:HB3	1:G:2998:PHE:CE2	2.51	0.45
1:G:3017:PHE:HB2	1:G:3074:SER:HB2	1.98	0.45
1:J:73:LEU:HG	1:J:77:ALA:CB	2.46	0.45
1:J:920:TYR:O	1:J:923:GLN:HG2	2.16	0.45
1:J:1258:ALA:HB3	1:J:1271:ARG:HB3	1.96	0.45
1:J:2211:MET:HA	1:J:2214:VAL:HG12	1.98	0.45
1:J:2389:ASP:OD2	1:J:2392:ARG:NE	2.49	0.45
1:J:2913:ALA:HA	1:J:2916:LYS:HB3	1.97	0.45
1:J:3017:PHE:HB2	1:J:3074:SER:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3996:PHE:O	1:J:4000:MET:HG3	2.16	0.45
1:B:213:TYR:C	1:B:341:TYR:HB2	2.41	0.45
1:B:224:HIS:HA	1:B:388:LEU:HD22	1.98	0.45
1:B:426:ARG:HG3	1:B:431:PRO:HD3	1.97	0.45
1:B:1619:ARG:HA	1:B:1626:TRP:HA	1.97	0.45
1:B:2707:ALA:HB1	1:B:3009:TYR:HD1	1.81	0.45
1:B:2965:ARG:HA	1:B:2968:ASP:OD2	2.16	0.45
1:B:2970:SER:HB3	1:B:2998:PHE:CE2	2.51	0.45
1:B:3592:ILE:HA	1:B:3595:ARG:HE	1.81	0.45
1:E:157:ARG:HH21	1:E:161:GLU:HB3	1.81	0.45
1:E:231:LEU:HD11	1:E:245:VAL:HB	1.97	0.45
1:E:484:LEU:HD11	1:E:540:PHE:CE2	2.51	0.45
1:E:1578:ALA:HA	1:E:1584:ARG:NH1	2.31	0.45
1:E:1814:MET:HA	1:E:1817:GLU:HG2	1.97	0.45
1:E:2359:ARG:HH11	1:J:195:PHE:HZ	1.64	0.45
1:E:2803:GLU:HA	1:E:2806:ARG:HE	1.81	0.45
1:E:2892:GLN:O	1:E:2895:GLU:HG2	2.16	0.45
1:E:2965:ARG:HA	1:E:2968:ASP:OD2	2.16	0.45
1:E:3057:PHE:HB2	1:E:3060:ASP:HB2	1.97	0.45
1:G:213:TYR:C	1:G:341:TYR:HB2	2.41	0.45
1:G:573:GLU:CD	1:G:573:GLU:H	2.24	0.45
1:G:1005:TRP:HE3	1:G:1021:LEU:HD11	1.80	0.45
1:G:2509:VAL:HG23	1:G:2510:TYR:H	1.79	0.45
1:G:3003:LEU:HB2	1:G:3004:PRO:HD3	1.97	0.45
1:G:3592:ILE:HA	1:G:3595:ARG:HE	1.81	0.45
1:J:14:LEU:HD21	1:J:204:PRO:HG3	1.98	0.45
1:J:677:ALA:HB1	2:I:40:ARG:HB3	1.98	0.45
1:J:2584:HIS:O	1:J:2588:ARG:HG3	2.15	0.45
1:J:2707:ALA:HB1	1:J:3009:TYR:HD1	1.81	0.45
1:J:3354:LEU:HB2	1:J:3415:TYR:HE2	1.81	0.45
1:J:3699:HIS:HA	1:J:3702:VAL:HG22	1.97	0.45
1:J:3978:GLN:O	1:J:3982:HIS:ND1	2.49	0.45
3:K:94:TYR:CD1	3:K:120:GLY:HA3	2.50	0.45
1:B:73:LEU:HG	1:B:77:ALA:CB	2.46	0.45
1:B:484:LEU:HD11	1:B:540:PHE:CE2	2.51	0.45
1:B:918:ARG:O	1:B:922:LEU:HG	2.16	0.45
1:B:1561:VAL:HG23	1:B:1562:ILE:N	2.31	0.45
1:B:1934:SER:O	1:B:1938:GLN:HG2	2.16	0.45
1:B:2132:GLY:O	1:B:2136:ARG:HG3	2.16	0.45
1:B:2281:ILE:HG12	1:B:2282:ASP:OD1	2.17	0.45
1:B:3978:GLN:O	1:B:3982:HIS:ND1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:45:ARG:HB2	1:E:137:LEU:HB2	1.97	0.45
1:E:2615:ARG:NH1	1:E:2618:MET:HE1	2.32	0.45
1:E:2957:PHE:HE1	1:E:2961:GLN:HE21	1.64	0.45
1:E:4679:ARG:NH1	1:E:5017:ARG:HD2	2.31	0.45
1:E:4992:LEU:O	1:E:4996:ILE:HG13	2.16	0.45
1:G:40:GLU:O	1:G:114:SER:OG	2.32	0.45
1:G:913:LEU:HB3	1:G:917:GLU:CB	2.46	0.45
1:G:977:LEU:HD12	1:G:1044:ARG:HD3	1.97	0.45
1:G:1561:VAL:HG23	1:G:1562:ILE:N	2.31	0.45
1:G:2803:GLU:HA	1:G:2806:ARG:HE	1.81	0.45
1:G:4922:PHE:O	1:G:4927:ILE:HG12	2.17	0.45
1:J:360:ALA:HA	1:J:377:ILE:CD1	2.47	0.45
1:J:379:HIS:ND1	1:J:381:GLU:HG2	2.31	0.45
1:J:484:LEU:HD11	1:J:540:PHE:CE2	2.51	0.45
1:J:2803:GLU:HA	1:J:2806:ARG:HE	1.81	0.45
1:J:2883:HIS:CE1	1:J:2907:PRO:HA	2.51	0.45
1:J:4222:VAL:HB	1:J:4950:VAL:HG13	1.98	0.45
1:J:4700:GLN:OE1	1:J:4703:ARG:NH1	2.49	0.45
3:C:105:ASN:C	3:C:107:TRP:H	2.24	0.45
3:F:75:LYS:HE3	3:F:77:THR:OG1	2.16	0.45
3:K:101:PRO:HD2	3:K:104:TYR:O	2.16	0.45
3:M:40:ALA:HB3	3:M:43:LYS:HB2	1.99	0.45
3:M:101:PRO:HD2	3:M:104:TYR:O	2.17	0.45
1:B:360:ALA:HA	1:B:377:ILE:CD1	2.47	0.45
1:B:2610:LEU:O	1:B:2614:ILE:HG12	2.16	0.45
1:B:2624:ARG:HB3	1:B:2674:LEU:HD13	1.98	0.45
1:B:2751:LEU:HD12	1:B:2823:ILE:HD11	1.98	0.45
1:B:2803:GLU:HA	1:B:2806:ARG:HE	1.81	0.45
1:B:3003:LEU:HB2	1:B:3004:PRO:HD3	1.97	0.45
1:B:3199:ALA:O	1:B:3283:ARG:NE	2.49	0.45
1:B:4234:PHE:CE1	1:B:4985:LEU:HG	2.52	0.45
1:B:4673:ARG:HH12	1:B:4698:LYS:HB2	1.81	0.45
1:B:4700:GLN:OE1	1:B:4703:ARG:NH1	2.49	0.45
1:E:960:MET:O	1:E:961:MET:HE2	2.16	0.45
1:E:2132:GLY:O	1:E:2136:ARG:HG3	2.16	0.45
1:E:2292:GLU:OE1	1:E:2292:GLU:N	2.42	0.45
1:E:4105:GLY:O	1:E:4109:GLN:HG2	2.16	0.45
1:G:1477:GLY:HA2	1:G:1483:VAL:HA	1.98	0.45
1:G:2906:VAL:HG23	1:G:2911:LEU:HB3	1.97	0.45
1:G:4779:LYS:HA	1:G:4782:VAL:HG22	1.98	0.45
1:J:977:LEU:HD12	1:J:1044:ARG:HD3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:1708:ARG:O	1:J:1712:TYR:HD1	1.99	0.45
1:J:1814:MET:HA	1:J:1817:GLU:HG2	1.97	0.45
1:J:2615:ARG:NH1	1:J:2618:MET:HE1	2.32	0.45
1:J:2624:ARG:HB3	1:J:2674:LEU:HD13	1.98	0.45
1:J:2794:TYR:HE1	1:J:2802:LYS:HE2	1.81	0.45
1:J:3775:ALA:HA	1:J:3778:MET:HG3	1.98	0.45
1:J:4001:MET:SD	1:J:4002:LYS:N	2.90	0.45
1:J:4661:TYR:OH	1:J:4786:ASP:OD2	2.30	0.45
2:H:19:GLY:HA2	2:H:49:ARG:HD3	1.97	0.45
1:B:379:HIS:ND1	1:B:381:GLU:HG2	2.31	0.45
1:B:1043:VAL:O	1:B:1047:LEU:HG	2.17	0.45
1:B:1561:VAL:HG23	1:B:1562:ILE:H	1.81	0.45
1:B:2794:TYR:HE1	1:B:2802:LYS:HE2	1.81	0.45
1:B:4992:LEU:O	1:B:4996:ILE:HG13	2.16	0.45
1:E:1557:THR:O	1:E:1557:THR:HG22	2.16	0.45
1:E:1712:TYR:O	1:E:1716:ILE:HG13	2.16	0.45
1:E:2794:TYR:HE1	1:E:2802:LYS:HE2	1.82	0.45
1:E:3978:GLN:O	1:E:3982:HIS:ND1	2.49	0.45
1:E:4222:VAL:HB	1:E:4950:VAL:HG13	1.98	0.45
1:E:4227:GLU:HA	1:E:4230:LYS:HB2	1.98	0.45
1:E:4813:LEU:O	1:E:4816:ILE:HG12	2.17	0.45
1:G:918:ARG:O	1:G:922:LEU:HG	2.16	0.45
1:G:1043:VAL:O	1:G:1047:LEU:HG	2.17	0.45
1:G:1623:ARG:HA	1:G:1623:ARG:NH1	2.32	0.45
1:G:3527:PRO:HB2	1:G:3573:MET:SD	2.57	0.45
1:G:3752:SER:O	1:G:3756:LYS:HG3	2.16	0.45
1:G:3775:ALA:HA	1:G:3778:MET:HG3	1.98	0.45
1:G:4222:VAL:HB	1:G:4950:VAL:HG13	1.98	0.45
1:J:573:GLU:CD	1:J:573:GLU:H	2.24	0.45
1:J:719:LEU:C	1:J:730:VAL:HG12	2.42	0.45
1:J:901:LYS:HD3	1:J:903:LEU:HD11	1.98	0.45
1:J:1043:VAL:O	1:J:1047:LEU:HG	2.17	0.45
1:J:1857:GLU:O	1:J:1861:GLN:HG3	2.16	0.45
1:J:2965:ARG:HA	1:J:2968:ASP:OD2	2.16	0.45
1:J:3592:ILE:HA	1:J:3595:ARG:HE	1.81	0.45
3:F:15:GLY:H	3:F:85:LEU:HB2	1.80	0.45
3:F:101:PRO:HD2	3:F:104:TYR:O	2.17	0.45
1:B:2443:ILE:HD12	1:B:2454:ARG:HH11	1.80	0.45
1:B:2957:PHE:HE1	1:B:2961:GLN:HE21	1.64	0.45
1:B:3457:ASN:OD1	1:B:3458:PHE:N	2.50	0.45
1:E:1619:ARG:HA	1:E:1626:TRP:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1623:ARG:NH1	1:E:1623:ARG:HA	2.32	0.45
1:E:1730:MET:O	1:E:1733:GLU:HG2	2.17	0.45
1:E:3511:VAL:HG22	1:E:3516:LYS:NZ	2.31	0.45
1:E:3752:SER:O	1:E:3756:LYS:HG3	2.16	0.45
1:E:3935:TRP:NE1	1:J:80:GLU:OE1	2.33	0.45
1:G:14:LEU:HD21	1:G:204:PRO:HG3	1.98	0.45
1:G:73:LEU:HG	1:G:77:ALA:CB	2.46	0.45
1:G:603:LEU:HA	1:G:606:LEU:HD12	1.99	0.45
1:G:996:TRP:NE1	3:M:113:GLU:HB3	2.32	0.45
1:G:1708:ARG:O	1:G:1712:TYR:HD1	1.99	0.45
1:G:2619:LEU:HG	1:G:2623:LEU:HG	1.98	0.45
1:G:2965:ARG:HA	1:G:2968:ASP:OD2	2.16	0.45
1:G:3906:GLN:HB2	1:G:3912:THR:HA	1.99	0.45
1:J:2529:ASP:HB3	1:J:2554:LEU:HD21	1.98	0.45
1:J:4105:GLY:O	1:J:4109:GLN:HG2	2.16	0.45
1:J:4780:PHE:HA	1:J:4783:ILE:HG22	1.99	0.45
3:M:99:ARG:HD2	3:M:114:TYR:CD2	2.52	0.45
1:B:719:LEU:C	1:B:730:VAL:HG12	2.42	0.45
1:B:1623:ARG:NH1	1:B:1623:ARG:HA	2.32	0.45
1:B:2211:MET:HA	1:B:2214:VAL:HG12	1.98	0.45
1:B:2355:ARG:HD3	1:B:2358:ILE:HD11	1.98	0.45
1:B:2359:ARG:HH11	1:E:195:PHE:HZ	1.64	0.45
1:B:2588:ARG:HA	1:B:2591:ARG:HE	1.81	0.45
1:B:2619:LEU:HG	1:B:2623:LEU:HG	1.98	0.45
1:B:2702:CYS:O	1:B:2706:ILE:HG13	2.16	0.45
1:B:3181:THR:O	1:B:3185:LYS:HG2	2.16	0.45
1:B:4679:ARG:NH1	1:B:5017:ARG:HD2	2.31	0.45
1:E:426:ARG:HG3	1:E:431:PRO:HD3	1.97	0.45
1:E:719:LEU:C	1:E:730:VAL:HG12	2.42	0.45
1:E:1095:VAL:O	1:E:1145:SER:OG	2.25	0.45
1:E:2667:THR:HG23	1:E:2672:LEU:HD11	1.99	0.45
1:E:2751:LEU:HD12	1:E:2823:ILE:HD11	1.98	0.45
1:G:719:LEU:C	1:G:730:VAL:HG12	2.42	0.45
1:G:850:ASP:OD1	1:G:1025:ARG:NH2	2.44	0.45
1:G:1493:TYR:HB3	1:G:1540:PHE:CD2	2.52	0.45
1:G:1857:GLU:O	1:G:1861:GLN:HG3	2.16	0.45
1:G:2858:GLN:HB2	1:G:2859:PRO:HD3	1.99	0.45
1:G:3699:HIS:HA	1:G:3702:VAL:HG22	1.97	0.45
1:G:4227:GLU:HA	1:G:4230:LYS:HB2	1.98	0.45
1:G:4679:ARG:NH1	1:G:5017:ARG:HD2	2.31	0.45
1:G:4813:LEU:O	1:G:4816:ILE:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:426:ARG:HG3	1:J:431:PRO:HD3	1.97	0.45
1:J:917:GLU:OE2	3:K:101:PRO:HB2	2.16	0.45
1:J:920:TYR:CG	3:K:101:PRO:HG3	2.52	0.45
1:J:2132:GLY:O	1:J:2136:ARG:HG3	2.16	0.45
1:J:2751:LEU:HD12	1:J:2823:ILE:HD11	1.98	0.45
1:J:3384:LYS:HG2	1:J:3386:GLU:H	1.82	0.45
1:J:4992:LEU:O	1:J:4996:ILE:HG13	2.16	0.45
1:B:996:TRP:NE1	3:C:113:GLU:HB3	2.32	0.45
1:B:1712:TYR:O	1:B:1716:ILE:HG13	2.16	0.45
1:B:2615:ARG:NH1	1:B:2618:MET:HE1	2.32	0.45
1:B:2624:ARG:HH22	1:B:2912:THR:CG2	2.28	0.45
1:B:3245:VAL:HG13	1:B:3248:ARG:H	1.82	0.45
1:B:4927:ILE:HD12	1:G:4936:ILE:HD13	1.97	0.45
1:E:573:GLU:CD	1:E:573:GLU:H	2.24	0.45
1:E:1741:GLU:O	1:E:1745:ILE:HG13	2.15	0.45
1:E:2702:CYS:O	1:E:2706:ILE:HG13	2.16	0.45
1:E:2823:ILE:O	1:E:2825:LYS:NZ	2.49	0.45
1:E:3527:PRO:HB2	1:E:3573:MET:SD	2.57	0.45
1:E:3924:LEU:HD21	1:E:3984:ARG:HH21	1.81	0.45
1:E:4922:PHE:O	1:E:4927:ILE:HG12	2.17	0.45
1:G:844:ARG:HH12	1:G:1071:ARG:HH21	1.63	0.45
1:G:870:ILE:HB	1:G:1051:TYR:OH	2.17	0.45
1:G:1008:SER:HB2	1:G:1017:ARG:NE	2.28	0.45
1:G:1712:TYR:O	1:G:1716:ILE:HG13	2.16	0.45
1:G:2281:ILE:HG12	1:G:2282:ASP:OD1	2.17	0.45
1:G:2615:ARG:NH1	1:G:2618:MET:HE1	2.32	0.45
1:G:2667:THR:HG23	1:G:2672:LEU:HD11	1.99	0.45
1:G:2748:PRO:HB2	1:G:2750:LYS:HG2	1.98	0.45
1:G:2794:TYR:HE1	1:G:2802:LYS:HE2	1.82	0.45
1:G:2827:ARG:NE	1:G:2935:TYR:OH	2.27	0.45
1:G:4780:PHE:HA	1:G:4783:ILE:HG22	1.99	0.45
1:J:603:LEU:HA	1:J:606:LEU:HD12	1.99	0.45
1:J:1477:GLY:HA2	1:J:1483:VAL:HA	1.98	0.45
1:J:1493:TYR:HB3	1:J:1540:PHE:CD2	2.52	0.45
1:J:1578:ALA:HA	1:J:1584:ARG:NH1	2.31	0.45
1:J:3245:VAL:HG13	1:J:3248:ARG:H	1.82	0.45
1:J:3527:PRO:HB2	1:J:3573:MET:SD	2.57	0.45
1:J:3674:ILE:HG13	1:J:3732:SER:HB3	1.99	0.45
1:J:3906:GLN:HB2	1:J:3912:THR:HA	1.99	0.45
1:J:3924:LEU:HD21	1:J:3984:ARG:HH21	1.81	0.45
1:J:4234:PHE:CE1	1:J:4985:LEU:HG	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4813:LEU:O	1:J:4816:ILE:HG12	2.17	0.45
1:B:850:ASP:OD1	1:B:1025:ARG:NH2	2.44	0.45
1:B:1477:GLY:HA2	1:B:1483:VAL:HA	1.98	0.45
1:B:1569:GLN:HB2	1:B:1572:ILE:HD12	1.99	0.45
1:B:2499:LYS:O	1:B:2503:VAL:HG12	2.17	0.45
1:B:4227:GLU:HA	1:B:4230:LYS:HB2	1.98	0.45
1:E:363:ASP:HB3	1:E:366:ALA:HB3	1.98	0.45
1:E:603:LEU:HA	1:E:606:LEU:HD12	1.99	0.45
1:E:2502:MET:SD	1:E:2503:VAL:N	2.90	0.45
1:E:3934:TYR:OH	1:E:3998:HIS:HB3	2.17	0.45
1:G:39:ALA:O	1:G:111:HIS:NE2	2.50	0.45
1:G:371:VAL:HG12	1:G:373:LYS:HB2	1.99	0.45
1:G:1561:VAL:HG23	1:G:1562:ILE:H	1.81	0.45
1:G:2499:LYS:O	1:G:2503:VAL:HG12	2.17	0.45
1:G:2707:ALA:HB1	1:G:3009:TYR:HD1	1.81	0.45
1:G:2994:GLU:O	1:G:2998:PHE:HD1	2.00	0.45
1:J:224:HIS:HA	1:J:388:LEU:HD22	1.98	0.45
1:J:913:LEU:HB3	1:J:917:GLU:CB	2.46	0.45
1:J:1620:ALA:HB3	1:J:1624:LEU:HB2	1.99	0.45
1:J:2499:LYS:O	1:J:2503:VAL:HG12	2.17	0.45
1:J:2906:VAL:HG23	1:J:2911:LEU:HB3	1.97	0.45
1:J:4679:ARG:NH1	1:J:5017:ARG:HD2	2.31	0.45
1:B:573:GLU:CD	1:B:573:GLU:H	2.24	0.45
1:B:844:ARG:HH12	1:B:1071:ARG:HH21	1.63	0.45
1:B:870:ILE:HB	1:B:1051:TYR:OH	2.17	0.45
1:B:926:GLY:O	1:B:930:LYS:HG3	2.17	0.45
1:B:1087:ARG:HB3	1:B:1223:PHE:HA	1.98	0.45
1:B:2858:GLN:HB2	1:B:2859:PRO:HD3	1.99	0.45
1:B:3395:ARG:HG2	1:B:3450:ASN:OD1	2.17	0.45
1:B:3775:ALA:HA	1:B:3778:MET:HG3	1.98	0.45
1:B:4813:LEU:O	1:B:4816:ILE:HG12	2.17	0.45
1:B:4822:THR:O	1:B:4826:ILE:HG13	2.17	0.45
1:B:4922:PHE:O	1:B:4927:ILE:HG12	2.17	0.45
1:E:996:TRP:NE1	3:F:113:GLU:HB3	2.32	0.45
1:E:2281:ILE:HG12	1:E:2282:ASP:OD1	2.17	0.45
1:E:2883:HIS:CE1	1:E:2907:PRO:HA	2.51	0.45
1:E:4780:PHE:HA	1:E:4783:ILE:HG22	1.99	0.45
1:G:379:HIS:ND1	1:G:381:GLU:HG2	2.31	0.45
1:G:1043:VAL:HA	1:G:1046:LEU:HG	1.99	0.45
1:G:1087:ARG:HB3	1:G:1223:PHE:HA	1.98	0.45
1:G:1569:GLN:HB2	1:G:1572:ILE:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2694:GLU:O	1:G:2698:MET:HG3	2.17	0.45
1:G:3674:ILE:HG13	1:G:3732:SER:HB3	1.99	0.45
1:G:4673:ARG:HH12	1:G:4698:LYS:HB2	1.81	0.45
1:G:4772:ASP:OD1	1:G:4772:ASP:N	2.49	0.45
1:J:1154:ASP:HB3	1:J:1223:PHE:CE1	2.52	0.45
1:J:2694:GLU:O	1:J:2698:MET:HG3	2.17	0.45
1:J:3457:ASN:OD1	1:J:3458:PHE:N	2.50	0.45
1:B:603:LEU:HA	1:B:606:LEU:HD12	1.99	0.44
1:B:2502:MET:SD	1:B:2503:VAL:N	2.90	0.44
1:B:2823:ILE:O	1:B:2825:LYS:NZ	2.49	0.44
1:B:3980:LEU:CD1	1:B:4030:LEU:HD21	2.46	0.44
1:E:224:HIS:HA	1:E:388:LEU:HD22	1.98	0.44
1:E:1205:GLY:HA3	1:E:1225:PRO:HB2	1.99	0.44
1:E:3187:ARG:HD3	1:E:3271:GLU:HG3	1.99	0.44
1:E:3457:ASN:OD1	1:E:3458:PHE:N	2.50	0.44
1:G:2957:PHE:HE2	1:G:3034:LYS:HG3	1.82	0.44
1:G:3457:ASN:OD1	1:G:3458:PHE:N	2.50	0.44
1:J:1623:ARG:NH1	1:J:1623:ARG:HA	2.32	0.44
1:J:1712:TYR:O	1:J:1716:ILE:HG13	2.16	0.44
1:J:1730:MET:O	1:J:1733:GLU:HG2	2.17	0.44
1:J:2624:ARG:HH22	1:J:2912:THR:CG2	2.28	0.44
1:J:3187:ARG:HD3	1:J:3271:GLU:HG3	1.99	0.44
1:J:3752:SER:O	1:J:3756:LYS:HG3	2.16	0.44
3:M:105:ASN:ND2	3:M:108:GLY:H	2.14	0.44
1:B:1557:THR:HG22	1:B:1557:THR:O	2.16	0.44
1:B:2994:GLU:O	1:B:2998:PHE:HD1	2.00	0.44
1:B:3510:ILE:O	1:B:3514:LEU:HD23	2.17	0.44
1:B:4001:MET:SD	1:B:4002:LYS:N	2.90	0.44
1:B:4779:LYS:HA	1:B:4782:VAL:HG22	1.98	0.44
1:E:677:ALA:HB1	2:D:40:ARG:HB3	1.99	0.44
1:E:917:GLU:OE2	3:F:101:PRO:HB2	2.17	0.44
1:E:1154:ASP:HB3	1:E:1223:PHE:CE1	2.52	0.44
1:E:2121:PHE:O	1:E:3725:TYR:OH	2.35	0.44
1:E:2423:MET:HE1	1:E:2498:HIS:ND1	2.33	0.44
1:E:2858:GLN:HB2	1:E:2859:PRO:HD3	1.99	0.44
1:E:3284:TRP:HA	1:E:3287:ARG:HD3	2.00	0.44
1:E:3384:LYS:HG2	1:E:3386:GLU:H	1.82	0.44
1:E:3775:ALA:HA	1:E:3778:MET:HG3	1.98	0.44
1:E:4001:MET:SD	1:E:4002:LYS:N	2.90	0.44
1:G:475:GLN:HB3	1:G:533:ASN:HD22	1.82	0.44
1:G:730:VAL:HA	1:G:1476:MET:CE	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2978:GLU:OE1	1:G:3053:ARG:NH1	2.51	0.44
1:G:3384:LYS:HG2	1:G:3386:GLU:H	1.82	0.44
1:G:3395:ARG:HG2	1:G:3450:ASN:OD1	2.17	0.44
1:G:3944:GLU:O	1:G:3948:LYS:HG3	2.17	0.44
1:J:1043:VAL:HA	1:J:1046:LEU:HG	1.99	0.44
1:J:1431:THR:HG21	1:J:1523:ALA:HB2	1.99	0.44
1:J:2292:GLU:OE1	1:J:2292:GLU:N	2.42	0.44
1:J:2502:MET:SD	1:J:2503:VAL:N	2.90	0.44
1:J:2667:THR:HG23	1:J:2672:LEU:HD11	1.99	0.44
3:C:101:PRO:HD2	3:C:104:TYR:O	2.17	0.44
1:B:40:GLU:O	1:B:114:SER:OG	2.32	0.44
1:B:815:VAL:O	1:B:1007:TYR:OH	2.24	0.44
1:B:960:MET:O	1:B:961:MET:HE2	2.16	0.44
1:B:1008:SER:HB2	1:B:1017:ARG:NE	2.28	0.44
1:B:1205:GLY:HA3	1:B:1225:PRO:HB2	1.99	0.44
1:B:1620:ALA:HB3	1:B:1624:LEU:HB2	1.99	0.44
1:B:1782:PHE:HB2	2:A:37:ASP:OD2	2.18	0.44
1:B:1808:ARG:NH1	1:B:1853:ILE:O	2.49	0.44
1:B:2667:THR:HG23	1:B:2672:LEU:HD11	1.99	0.44
1:B:2957:PHE:HE2	1:B:3034:LYS:HG3	1.82	0.44
1:B:3046:LEU:HD11	1:B:3064:VAL:HG13	2.00	0.44
1:B:3527:PRO:HB2	1:B:3573:MET:SD	2.57	0.44
1:B:3934:TYR:OH	1:B:3998:HIS:HB3	2.17	0.44
1:E:39:ALA:O	1:E:111:HIS:NE2	2.50	0.44
1:E:206:CYS:HB2	1:E:271:GLY:O	2.17	0.44
1:E:870:ILE:HB	1:E:1051:TYR:OH	2.17	0.44
1:E:1493:TYR:HB3	1:E:1540:PHE:CD2	2.52	0.44
1:E:2619:LEU:HG	1:E:2623:LEU:HG	1.98	0.44
1:E:3354:LEU:HB2	1:E:3415:TYR:HE2	1.81	0.44
1:E:3395:ARG:HG2	1:E:3450:ASN:OD1	2.18	0.44
1:G:2142:TYR:CE2	1:G:2197:LEU:HB2	2.52	0.44
1:G:2336:ARG:HB2	1:G:2435:ARG:HD2	1.99	0.44
1:G:2355:ARG:HD3	1:G:2358:ILE:HD11	1.98	0.44
1:G:2595:LEU:HB2	1:G:2600:ARG:NE	2.25	0.44
1:G:4001:MET:SD	1:G:4002:LYS:N	2.90	0.44
1:G:4822:THR:O	1:G:4826:ILE:HG13	2.17	0.44
1:J:926:GLY:O	1:J:930:LYS:HG3	2.18	0.44
1:J:2355:ARG:HD3	1:J:2358:ILE:HD11	1.98	0.44
1:J:2423:MET:HE1	1:J:2498:HIS:ND1	2.33	0.44
1:J:2970:SER:HB3	1:J:2998:PHE:CE2	2.51	0.44
1:J:3284:TRP:HA	1:J:3287:ARG:HD3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3510:ILE:O	1:J:3514:LEU:HD23	2.18	0.44
1:J:3727:ASP:HB3	1:J:3731:LYS:HZ1	1.81	0.44
1:B:14:LEU:HD21	1:B:204:PRO:HG3	1.98	0.44
1:B:39:ALA:O	1:B:111:HIS:NE2	2.50	0.44
1:B:467:LYS:HE3	1:B:467:LYS:HB3	1.87	0.44
1:B:1493:TYR:HB3	1:B:1540:PHE:CD2	2.52	0.44
1:B:1730:MET:O	1:B:1733:GLU:HG2	2.17	0.44
1:B:4222:VAL:HB	1:B:4950:VAL:HG13	1.98	0.44
1:E:835:ARG:NH2	1:E:1203:ASN:HD22	2.09	0.44
1:E:2367:ALA:HB3	1:E:2426:TYR:CE1	2.53	0.44
1:E:2499:LYS:O	1:E:2503:VAL:HG12	2.17	0.44
1:E:2694:GLU:O	1:E:2698:MET:HG3	2.17	0.44
1:E:3046:LEU:HD11	1:E:3064:VAL:HG13	2.00	0.44
1:E:3206:LEU:HD12	1:E:3280:TYR:CD2	2.53	0.44
1:E:4234:PHE:CE1	1:E:4985:LEU:HG	2.52	0.44
1:G:360:ALA:HA	1:G:377:ILE:CD1	2.46	0.44
1:G:1154:ASP:HB3	1:G:1223:PHE:CE1	2.52	0.44
1:G:2211:MET:HA	1:G:2214:VAL:HG12	1.98	0.44
1:G:3051:ARG:HH22	1:G:3102:ASP:HB2	1.83	0.44
1:G:3245:VAL:HG13	1:G:3248:ARG:H	1.82	0.44
1:J:206:CYS:HB2	1:J:271:GLY:O	2.17	0.44
1:J:2142:TYR:CE2	1:J:2197:LEU:HB2	2.52	0.44
1:J:2281:ILE:HG12	1:J:2282:ASP:OD1	2.17	0.44
1:J:2994:GLU:O	1:J:2998:PHE:HD1	2.00	0.44
1:J:4822:THR:O	1:J:4826:ILE:HG13	2.17	0.44
1:J:4996:ILE:HD13	6:J:5103:CFF:C8	2.48	0.44
3:C:40:ALA:HB3	3:C:43:LYS:HB2	1.99	0.44
3:M:36:TRP:HB2	3:M:48:VAL:HB	1.99	0.44
1:B:206:CYS:HB2	1:B:271:GLY:O	2.17	0.44
1:B:1154:ASP:HB3	1:B:1223:PHE:CE1	2.53	0.44
1:B:1438:ARG:HG3	1:B:1513:ASP:HB3	2.00	0.44
1:E:874:LEU:O	1:E:878:ILE:HG12	2.18	0.44
1:E:1215:ALA:HA	1:E:1219:LEU:HB3	2.00	0.44
1:E:3017:PHE:HB2	1:E:3074:SER:HB2	1.98	0.44
1:G:206:CYS:HB2	1:G:271:GLY:O	2.17	0.44
1:G:926:GLY:O	1:G:930:LYS:HG3	2.17	0.44
1:G:1620:ALA:HB3	1:G:1624:LEU:HB2	1.99	0.44
1:G:2132:GLY:O	1:G:2136:ARG:HG3	2.16	0.44
1:G:3206:LEU:HD12	1:G:3280:TYR:CD2	2.53	0.44
1:G:3924:LEU:HD21	1:G:3984:ARG:HH21	1.81	0.44
1:J:2367:ALA:HB3	1:J:2426:TYR:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2858:GLN:HB2	1:J:2859:PRO:HD3	1.99	0.44
3:F:36:TRP:HB2	3:F:48:VAL:HB	1.99	0.44
1:B:475:GLN:HB3	1:B:533:ASN:HD22	1.82	0.44
1:B:920:TYR:CG	3:C:101:PRO:HG3	2.53	0.44
1:B:1814:MET:SD	1:B:1841:VAL:HG13	2.58	0.44
1:B:3089:LYS:O	1:B:3092:LEU:HG	2.18	0.44
1:B:3674:ILE:HG13	1:B:3732:SER:HB3	1.99	0.44
1:B:4071:ILE:O	1:B:4074:SER:OG	2.32	0.44
1:E:901:LYS:HD3	1:E:903:LEU:HD11	1.98	0.44
1:E:1431:THR:HG21	1:E:1523:ALA:HB2	1.99	0.44
1:E:2211:MET:HA	1:E:2214:VAL:HG12	1.98	0.44
1:E:2994:GLU:O	1:E:2998:PHE:HD1	2.00	0.44
1:E:3046:LEU:HD23	1:E:3071:LEU:HD12	2.00	0.44
1:E:4247:ILE:O	1:E:4251:ILE:HG13	2.18	0.44
1:E:4822:THR:O	1:E:4826:ILE:HG13	2.17	0.44
1:G:40:GLU:HG2	1:G:42:PHE:H	1.83	0.44
1:G:874:LEU:O	1:G:878:ILE:HG12	2.18	0.44
1:G:2751:LEU:HD12	1:G:2823:ILE:HD11	1.98	0.44
1:G:3923:LEU:HD11	1:G:3962:PHE:CE1	2.53	0.44
1:J:2859:PRO:HB2	1:J:2932:MET:SD	2.58	0.44
1:J:2957:PHE:HE2	1:J:3034:LYS:HG3	1.82	0.44
1:J:3537:LYS:HE2	1:J:3537:LYS:HB3	1.90	0.44
3:K:36:TRP:HB2	3:K:48:VAL:HB	1.99	0.44
3:K:99:ARG:HD2	3:K:114:TYR:CD2	2.53	0.44
3:K:105:ASN:C	3:K:107:TRP:H	2.26	0.44
3:M:100:VAL:HG22	3:M:105:ASN:HB2	2.00	0.44
1:B:1025:ARG:HG2	1:B:1026:LEU:HD12	2.00	0.44
1:B:2142:TYR:CE2	1:B:2197:LEU:HB2	2.52	0.44
1:B:3384:LYS:HG2	1:B:3386:GLU:H	1.82	0.44
1:E:292:ALA:HB2	1:E:312:THR:HG22	2.00	0.44
1:E:379:HIS:ND1	1:E:381:GLU:HG2	2.31	0.44
1:E:475:GLN:HB3	1:E:533:ASN:HD22	1.82	0.44
1:E:492:ASP:OD1	1:E:546:TRP:NE1	2.44	0.44
1:E:1043:VAL:O	1:E:1047:LEU:HG	2.17	0.44
1:E:1254:HIS:CD2	1:E:1283:LEU:HG	2.53	0.44
1:E:1438:ARG:HG3	1:E:1513:ASP:HB3	2.00	0.44
1:E:2624:ARG:HB3	1:E:2674:LEU:HD13	1.98	0.44
1:E:2874:MET:HG3	1:E:2937:VAL:CG2	2.48	0.44
1:E:3416:VAL:HG23	1:E:3423:TRP:HZ3	1.83	0.44
1:E:3674:ILE:HG13	1:E:3732:SER:HB3	1.99	0.44
1:G:1076:ARG:HG2	1:G:1605:TRP:CZ3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1215:ALA:HA	1:G:1219:LEU:HB3	2.00	0.44
1:G:2859:PRO:HB2	1:G:2932:MET:SD	2.58	0.44
1:G:4234:PHE:CE1	1:G:4985:LEU:HG	2.52	0.44
1:J:1076:ARG:HG2	1:J:1605:TRP:CZ3	2.53	0.44
1:J:2619:LEU:HG	1:J:2623:LEU:HG	1.98	0.44
1:J:2978:GLU:OE1	1:J:3053:ARG:NH1	2.51	0.44
1:J:3046:LEU:HD11	1:J:3064:VAL:HG13	2.00	0.44
1:J:3051:ARG:HH22	1:J:3102:ASP:HB2	1.82	0.44
3:C:99:ARG:HD2	3:C:114:TYR:CD2	2.52	0.44
3:F:99:ARG:HD2	3:F:114:TYR:CD2	2.52	0.44
3:M:105:ASN:C	3:M:107:TRP:H	2.26	0.44
1:B:1035:ASN:OD1	3:C:109:THR:OG1	2.36	0.44
1:B:2336:ARG:HB2	1:B:2435:ARG:HD2	1.99	0.44
1:B:2694:GLU:O	1:B:2698:MET:HG3	2.17	0.44
1:B:2874:MET:HG3	1:B:2937:VAL:CG2	2.48	0.44
1:B:3046:LEU:HD23	1:B:3071:LEU:HD12	2.00	0.44
1:B:3284:TRP:HA	1:B:3287:ARG:HD3	2.00	0.44
1:B:3354:LEU:HB2	1:B:3415:TYR:HE2	1.81	0.44
1:B:3955:MET:CE	1:B:4015:GLU:HG2	2.48	0.44
1:E:926:GLY:O	1:E:930:LYS:HG3	2.18	0.44
1:E:1786:LEU:HD22	2:D:87:HIS:CD2	2.52	0.44
1:E:2182:ILE:O	1:E:2186:MET:HG3	2.18	0.44
1:E:2957:PHE:HE2	1:E:3034:LYS:HG3	1.82	0.44
1:E:4996:ILE:HD13	6:E:5103:CFF:C8	2.48	0.44
1:G:871:ARG:NH1	1:G:922:LEU:HD22	2.33	0.44
1:G:917:GLU:HB3	3:M:104:TYR:OH	2.18	0.44
1:G:917:GLU:OE2	3:M:101:PRO:HB2	2.17	0.44
1:G:3187:ARG:HD3	1:G:3271:GLU:HG3	1.99	0.44
1:G:3233:PRO:HD2	1:G:3239:MET:SD	2.58	0.44
1:G:3962:PHE:O	1:G:3966:THR:HG23	2.18	0.44
1:J:516:LYS:HB2	1:J:516:LYS:HE2	1.82	0.44
1:J:870:ILE:HB	1:J:1051:TYR:OH	2.17	0.44
1:J:871:ARG:NH1	1:J:922:LEU:HD22	2.33	0.44
1:J:1438:ARG:HG3	1:J:1513:ASP:HB3	2.00	0.44
1:J:1730:MET:HE1	1:J:1772:ARG:HD3	2.00	0.44
1:J:2336:ARG:HB2	1:J:2435:ARG:HD2	1.99	0.44
1:J:2788:HIS:HE1	1:J:2790:MET:HB2	1.83	0.44
1:J:3089:LYS:O	1:J:3092:LEU:HG	2.18	0.44
1:J:3204:ALA:HB2	1:J:3304:CYS:SG	2.58	0.44
1:J:3934:TYR:OH	1:J:3998:HIS:HB3	2.17	0.44
1:J:4003:LEU:HB2	1:J:4013:LEU:HD13	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:36:TRP:HB2	3:C:48:VAL:HB	1.99	0.44
3:F:105:ASN:C	3:F:107:TRP:H	2.26	0.44
1:B:118:LEU:HA	1:B:137:LEU:HD23	2.00	0.44
1:B:835:ARG:NH2	1:B:1203:ASN:HD22	2.09	0.44
1:B:2367:ALA:HB3	1:B:2426:TYR:CE1	2.53	0.44
1:B:3104:GLU:O	1:B:3107:VAL:HG22	2.18	0.44
1:B:3206:LEU:HD12	1:B:3280:TYR:CD2	2.53	0.44
1:B:3416:VAL:HG23	1:B:3423:TRP:HZ3	1.83	0.44
1:B:3924:LEU:HD21	1:B:3984:ARG:HH21	1.81	0.44
1:B:3944:GLU:O	1:B:3948:LYS:HG3	2.17	0.44
1:E:913:LEU:HB3	1:E:917:GLU:CB	2.46	0.44
1:E:1515:VAL:HB	1:E:1532:ASN:HA	2.00	0.44
1:E:2978:GLU:OE1	1:E:3053:ARG:NH1	2.51	0.44
1:G:118:LEU:HA	1:G:137:LEU:HD23	2.00	0.44
1:G:195:PHE:HZ	1:J:2359:ARG:HH11	1.65	0.44
1:G:411:TYR:HB2	1:G:486:LEU:HD21	2.00	0.44
1:G:3089:LYS:O	1:G:3092:LEU:HG	2.18	0.44
1:G:3359:ILE:HG23	1:G:3437:MET:HE1	2.00	0.44
1:G:3510:ILE:O	1:G:3514:LEU:HD23	2.18	0.44
1:G:4247:ILE:O	1:G:4251:ILE:HG13	2.18	0.44
1:G:4865:LYS:HB3	1:G:4873:ASP:OD2	2.18	0.44
1:J:1569:GLN:HB2	1:J:1572:ILE:HD12	1.99	0.44
1:J:3206:LEU:HD12	1:J:3280:TYR:CD2	2.53	0.44
3:K:40:ALA:HB3	3:K:43:LYS:HB2	1.98	0.44
1:B:1215:ALA:HA	1:B:1219:LEU:HB3	2.00	0.43
1:B:1515:VAL:HB	1:B:1532:ASN:HA	2.00	0.43
1:B:3946:GLN:OE1	1:B:3949:ARG:NH2	2.48	0.43
1:B:4558:ASN:O	1:B:4562:LEU:HG	2.19	0.43
1:E:917:GLU:OE1	3:F:101:PRO:HB2	2.17	0.43
1:E:1025:ARG:HG2	1:E:1026:LEU:HD12	2.00	0.43
1:E:1727:ARG:HD3	1:E:1730:MET:SD	2.58	0.43
1:E:2142:TYR:CE2	1:E:2197:LEU:HB2	2.52	0.43
1:E:2920:ARG:HH11	1:E:2924:GLN:HE21	1.66	0.43
1:E:3051:ARG:HH22	1:E:3102:ASP:HB2	1.83	0.43
1:E:3245:VAL:HG13	1:E:3248:ARG:H	1.82	0.43
1:E:3944:GLU:O	1:E:3948:LYS:HG3	2.18	0.43
1:E:4003:LEU:HB2	1:E:4013:LEU:HD13	2.00	0.43
1:G:1025:ARG:HG2	1:G:1026:LEU:HD12	2.00	0.43
1:G:1035:ASN:OD1	3:M:109:THR:OG1	2.36	0.43
1:G:1431:THR:HG21	1:G:1523:ALA:HB2	1.99	0.43
1:G:1730:MET:O	1:G:1733:GLU:HG2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2423:MET:HE1	1:G:2498:HIS:ND1	2.32	0.43
1:G:2502:MET:SD	1:G:2503:VAL:N	2.90	0.43
1:G:2625:ARG:NE	1:G:2625:ARG:HA	2.33	0.43
1:G:2625:ARG:NH1	1:G:2906:VAL:HG12	2.33	0.43
1:G:2626:LEU:HD12	1:G:2626:LEU:HA	1.86	0.43
1:G:2788:HIS:HE1	1:G:2790:MET:HB2	1.83	0.43
1:G:2926:LEU:O	1:G:2930:LEU:HG	2.18	0.43
1:G:3046:LEU:HD23	1:G:3071:LEU:HD12	2.00	0.43
1:G:4652:LEU:O	1:G:4656:LEU:HG	2.18	0.43
1:J:39:ALA:O	1:J:111:HIS:NE2	2.50	0.43
1:J:356:TRP:N	1:J:379:HIS:O	2.38	0.43
1:J:1025:ARG:HG2	1:J:1026:LEU:HD12	2.00	0.43
1:J:1814:MET:SD	1:J:1841:VAL:HG13	2.58	0.43
1:J:2182:ILE:O	1:J:2186:MET:HG3	2.18	0.43
1:J:3944:GLU:O	1:J:3948:LYS:HG3	2.17	0.43
1:J:4865:LYS:HB3	1:J:4873:ASP:OD2	2.18	0.43
1:J:4922:PHE:O	1:J:4927:ILE:HG12	2.17	0.43
1:B:40:GLU:HG2	1:B:42:PHE:H	1.83	0.43
1:B:2625:ARG:HA	1:B:2625:ARG:NE	2.33	0.43
1:B:3051:ARG:HH22	1:B:3102:ASP:HB2	1.82	0.43
1:B:3347:SER:HB2	1:B:3414:ARG:NH2	2.34	0.43
1:B:3906:GLN:HB2	1:B:3912:THR:HA	1.99	0.43
1:B:4003:LEU:HB2	1:B:4013:LEU:HD13	2.00	0.43
1:B:4652:LEU:O	1:B:4656:LEU:HG	2.18	0.43
1:E:1076:ARG:HG2	1:E:1605:TRP:CZ3	2.53	0.43
1:G:1727:ARG:HD3	1:G:1730:MET:SD	2.58	0.43
1:G:3046:LEU:HD11	1:G:3064:VAL:HG13	2.00	0.43
1:G:3892:CYS:SG	1:G:3903:LEU:HD12	2.58	0.43
1:J:40:GLU:HG2	1:J:42:PHE:H	1.83	0.43
1:J:379:HIS:CE1	1:J:381:GLU:HG2	2.54	0.43
1:J:1254:HIS:CD2	1:J:1283:LEU:HG	2.53	0.43
1:J:3018:LEU:HD21	1:J:3150:HIS:NE2	2.33	0.43
1:J:3046:LEU:HD23	1:J:3071:LEU:HD12	2.00	0.43
1:J:3233:PRO:HD2	1:J:3239:MET:SD	2.58	0.43
3:F:47:LEU:O	3:F:62:SER:OG	2.37	0.43
1:B:292:ALA:HB2	1:B:312:THR:HG22	2.00	0.43
1:B:871:ARG:NH1	1:B:922:LEU:HD22	2.33	0.43
1:B:1748:PHE:HD1	1:B:1749:PRO:HD2	1.84	0.43
1:B:2182:ILE:O	1:B:2186:MET:HG3	2.18	0.43
1:B:2423:MET:HE1	1:B:2498:HIS:ND1	2.33	0.43
1:B:2978:GLU:OE1	1:B:3053:ARG:NH1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3187:ARG:HD3	1:B:3271:GLU:HG3	1.99	0.43
1:B:4865:LYS:HB3	1:B:4873:ASP:OD2	2.18	0.43
1:E:871:ARG:NH1	1:E:922:LEU:HD22	2.33	0.43
1:E:1569:GLN:HB2	1:E:1572:ILE:HD12	1.99	0.43
1:E:1620:ALA:HB3	1:E:1624:LEU:HB2	1.99	0.43
1:E:1778:SER:HB2	1:E:1798:LEU:HB2	2.01	0.43
1:E:1814:MET:SD	1:E:1841:VAL:HG13	2.58	0.43
1:E:2355:ARG:HD3	1:E:2358:ILE:HD11	1.98	0.43
1:E:2449:GLU:HA	1:E:2452:ARG:HD3	2.00	0.43
1:E:2821:TRP:CG	1:E:2874:MET:SD	3.12	0.43
1:E:3906:GLN:HB2	1:E:3912:THR:HA	1.99	0.43
1:G:917:GLU:OE1	3:M:101:PRO:HB2	2.17	0.43
1:G:1254:HIS:CD2	1:G:1283:LEU:HG	2.53	0.43
1:G:1748:PHE:HD1	1:G:1749:PRO:HD2	1.84	0.43
1:G:2755:ILE:HG22	1:G:2810:LYS:NZ	2.34	0.43
1:G:2821:TRP:CG	1:G:2874:MET:SD	3.12	0.43
1:G:2823:ILE:O	1:G:2825:LYS:NZ	2.49	0.43
1:G:2874:MET:HG3	1:G:2937:VAL:CG2	2.48	0.43
1:G:2970:SER:HA	1:G:2973:PHE:CD2	2.53	0.43
1:G:3104:GLU:O	1:G:3107:VAL:HG22	2.18	0.43
1:J:411:TYR:HB2	1:J:486:LEU:HD21	2.00	0.43
1:J:1205:GLY:HA3	1:J:1225:PRO:HB2	2.00	0.43
1:J:3104:GLU:O	1:J:3107:VAL:HG22	2.18	0.43
3:F:52:THR:OG1	3:F:56:SER:HB2	2.19	0.43
3:F:122:GLN:HE21	3:F:124:THR:HG1	1.61	0.43
1:B:874:LEU:O	1:B:878:ILE:HG12	2.18	0.43
1:B:2575:ARG:HB3	1:B:2578:MET:HG2	2.01	0.43
1:B:3437:MET:O	1:B:3441:ILE:HG13	2.18	0.43
1:E:379:HIS:CE1	1:E:381:GLU:HG2	2.54	0.43
1:E:3104:GLU:O	1:E:3107:VAL:HG22	2.18	0.43
1:E:3321:ARG:NH1	1:E:3325:ASN:OD1	2.51	0.43
1:E:4892:ARG:NH2	1:J:4918:ILE:HD13	2.34	0.43
1:G:43:GLY:HA2	1:G:443:LEU:HD23	2.00	0.43
1:G:470:SER:O	1:G:474:ARG:HG3	2.18	0.43
1:G:797:HIS:HE1	1:G:1626:TRP:HD1	1.63	0.43
1:G:1205:GLY:HA3	1:G:1225:PRO:HB2	1.99	0.43
1:G:1778:SER:HB2	1:G:1798:LEU:HB2	2.01	0.43
1:G:1782:PHE:HB2	2:H:37:ASP:OD2	2.18	0.43
1:G:1814:MET:SD	1:G:1841:VAL:HG13	2.58	0.43
1:G:2367:ALA:HB3	1:G:2426:TYR:CE1	2.53	0.43
1:G:4727:LYS:HD3	1:G:4728:HIS:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:874:LEU:HD21	1:J:1051:TYR:OH	2.19	0.43
1:J:1727:ARG:HD3	1:J:1730:MET:SD	2.58	0.43
1:J:4727:LYS:HD3	1:J:4728:HIS:CE1	2.54	0.43
3:C:71:ARG:CB	3:C:78:VAL:HG22	2.49	0.43
3:F:82:MET:HE2	3:F:82:MET:HA	2.01	0.43
3:F:94:TYR:HD1	3:F:120:GLY:HA3	1.84	0.43
3:K:47:LEU:O	3:K:62:SER:OG	2.37	0.43
3:K:94:TYR:HD1	3:K:120:GLY:HA3	1.84	0.43
1:B:43:GLY:HA2	1:B:443:LEU:HD23	2.00	0.43
1:B:247:TYR:CB	1:B:374:LYS:HB2	2.47	0.43
1:B:874:LEU:HD21	1:B:1051:TYR:OH	2.19	0.43
1:B:2821:TRP:CG	1:B:2874:MET:SD	3.12	0.43
1:B:2859:PRO:HB2	1:B:2932:MET:SD	2.58	0.43
1:B:3321:ARG:NH1	1:B:3325:ASN:OD1	2.51	0.43
1:B:3727:ASP:HB3	1:B:3731:LYS:HZ1	1.84	0.43
1:B:4780:PHE:HA	1:B:4783:ILE:HG22	1.99	0.43
1:E:43:GLY:HA2	1:E:443:LEU:HD23	2.00	0.43
1:E:1035:ASN:OD1	3:F:109:THR:OG1	2.36	0.43
1:E:1748:PHE:HD1	1:E:1749:PRO:HD2	1.84	0.43
1:E:2819:TRP:NE1	1:E:2881:ASN:OD1	2.42	0.43
1:E:4023:MET:HA	1:E:4023:MET:HE2	2.01	0.43
1:G:3284:TRP:HA	1:G:3287:ARG:HD3	2.00	0.43
1:J:118:LEU:HA	1:J:137:LEU:HD23	2.00	0.43
1:J:475:GLN:HB3	1:J:533:ASN:HD22	1.82	0.43
1:J:2449:GLU:HA	1:J:2452:ARG:HD3	2.00	0.43
1:J:2755:ILE:HG22	1:J:2810:LYS:NZ	2.34	0.43
1:J:2821:TRP:CG	1:J:2874:MET:SD	3.12	0.43
1:J:3347:SER:HB2	1:J:3414:ARG:NH2	2.34	0.43
1:J:3359:ILE:HG23	1:J:3437:MET:HE1	2.00	0.43
3:K:64:LYS:N	3:K:64:LYS:HD3	2.34	0.43
1:B:250:GLY:N	1:B:253:CYS:SG	2.92	0.43
1:B:913:LEU:HD13	3:C:104:TYR:OH	2.19	0.43
1:B:1043:VAL:HA	1:B:1046:LEU:HG	1.99	0.43
1:B:1698:LEU:HG	1:B:1712:TYR:CZ	2.54	0.43
1:B:2175:GLU:O	1:B:2179:ILE:HG12	2.19	0.43
1:B:2211:MET:HE3	1:B:2232:CYS:SG	2.58	0.43
1:B:2866:THR:O	1:B:2928:LYS:NZ	2.22	0.43
1:B:2920:ARG:HH11	1:B:2924:GLN:HE21	1.66	0.43
1:B:2978:GLU:CD	1:B:3053:ARG:HD2	2.44	0.43
1:B:4996:ILE:HD13	6:B:5103:CFF:C8	2.48	0.43
1:E:920:TYR:CG	3:F:101:PRO:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1043:VAL:HA	1:E:1046:LEU:HG	1.99	0.43
1:E:1782:PHE:HB2	2:D:37:ASP:OD2	2.18	0.43
1:E:2318:TYR:HA	1:E:2395:PRO:HA	2.01	0.43
1:E:2336:ARG:HB2	1:E:2435:ARG:HD2	1.99	0.43
1:E:3347:SER:HB2	1:E:3414:ARG:NH2	2.34	0.43
1:E:4654:ALA:O	1:E:4658:ILE:HG12	2.19	0.43
1:G:379:HIS:CE1	1:G:381:GLU:HG2	2.54	0.43
1:G:516:LYS:HE2	1:G:516:LYS:HB2	1.82	0.43
1:G:1438:ARG:HG3	1:G:1513:ASP:HB3	2.00	0.43
1:G:2182:ILE:O	1:G:2186:MET:HG3	2.18	0.43
1:J:43:GLY:HA2	1:J:443:LEU:HD23	2.00	0.43
1:J:470:SER:O	1:J:474:ARG:HG3	2.18	0.43
1:J:1095:VAL:O	1:J:1145:SER:OG	2.25	0.43
1:J:1130:GLN:HG2	1:J:1138:PRO:HA	2.00	0.43
1:J:1782:PHE:HB2	2:I:37:ASP:OD2	2.18	0.43
1:J:2121:PHE:CG	1:J:3701:LEU:HD13	2.54	0.43
1:J:2970:SER:HA	1:J:2973:PHE:CD2	2.53	0.43
1:J:4242:ILE:HA	1:J:4245:MET:HG2	2.00	0.43
1:J:4796:MET:O	1:J:4800:LEU:HG	2.19	0.43
2:I:41:ASP:OD1	2:I:42:ARG:N	2.52	0.43
3:C:52:THR:OG1	3:C:56:SER:HB2	2.19	0.43
3:C:94:TYR:HD1	3:C:120:GLY:HA3	1.84	0.43
3:M:82:MET:HE2	3:M:82:MET:HA	2.01	0.43
1:B:1727:ARG:HD3	1:B:1730:MET:SD	2.58	0.43
1:B:2755:ILE:HG22	1:B:2810:LYS:NZ	2.34	0.43
1:B:2866:THR:OG1	1:B:2867:LEU:N	2.50	0.43
1:B:4242:ILE:HA	1:B:4245:MET:HG2	2.00	0.43
1:B:4918:ILE:HD13	1:G:4892:ARG:NH2	2.33	0.43
1:E:470:SER:O	1:E:474:ARG:HG3	2.18	0.43
1:E:688:LEU:HD23	1:E:712:TYR:HD1	1.83	0.43
1:E:771:PHE:HB3	1:E:1472:VAL:HG23	2.01	0.43
1:E:3089:LYS:O	1:E:3092:LEU:HG	2.18	0.43
1:E:3510:ILE:O	1:E:3514:LEU:HD23	2.18	0.43
1:E:4698:LYS:HB2	1:E:4698:LYS:HE3	1.86	0.43
1:G:250:GLY:N	1:G:253:CYS:SG	2.92	0.43
1:G:874:LEU:HD21	1:G:1051:TYR:OH	2.19	0.43
1:G:2449:GLU:HA	1:G:2452:ARG:HD3	2.00	0.43
1:G:2754:PHE:HE1	1:G:2933:ASN:ND2	2.17	0.43
1:G:3437:MET:O	1:G:3441:ILE:HG13	2.18	0.43
1:G:3765:TYR:O	1:G:3769:ARG:HG3	2.18	0.43
1:G:3934:TYR:OH	1:G:3998:HIS:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4182:GLU:OE1	1:G:4983:HIS:NE2	2.52	0.43
1:G:4211:LYS:O	1:G:4215:ARG:HG3	2.19	0.43
1:J:292:ALA:HB2	1:J:312:THR:HG22	2.00	0.43
1:J:492:ASP:OD1	1:J:546:TRP:NE1	2.44	0.43
1:J:1215:ALA:HA	1:J:1219:LEU:HB3	2.00	0.43
1:J:2318:TYR:HA	1:J:2395:PRO:HA	2.01	0.43
1:J:3416:VAL:HG23	1:J:3423:TRP:HZ3	1.83	0.43
1:J:3437:MET:O	1:J:3441:ILE:HG13	2.18	0.43
1:J:4823:LEU:O	1:J:4827:LEU:HG	2.19	0.43
2:D:41:ASP:OD1	2:D:42:ARG:N	2.52	0.43
3:C:64:LYS:HD3	3:C:64:LYS:N	2.34	0.43
1:B:182:LEU:HD11	1:B:189:LEU:HB3	2.01	0.43
1:B:340:LYS:O	1:B:344:SER:OG	2.32	0.43
1:B:379:HIS:CE1	1:B:381:GLU:HG2	2.54	0.43
1:B:771:PHE:HB3	1:B:1472:VAL:HG23	2.01	0.43
1:B:1076:ARG:HG2	1:B:1605:TRP:CZ3	2.53	0.43
1:B:1254:HIS:CD2	1:B:1283:LEU:HG	2.53	0.43
1:B:1431:THR:HG21	1:B:1523:ALA:HB2	1.99	0.43
1:B:1778:SER:HB2	1:B:1798:LEU:HB2	2.01	0.43
1:B:2735:PHE:CG	1:B:2907:PRO:HG3	2.54	0.43
1:B:2926:LEU:O	1:B:2930:LEU:HG	2.19	0.43
1:B:3233:PRO:HD2	1:B:3239:MET:SD	2.58	0.43
1:B:3359:ILE:HG23	1:B:3437:MET:HE1	2.00	0.43
1:B:4247:ILE:O	1:B:4251:ILE:HG13	2.18	0.43
1:E:17:ASP:HB2	1:E:98:HIS:CE1	2.54	0.43
1:E:1965:TYR:CE2	1:E:2031:LEU:HD22	2.54	0.43
1:E:2211:MET:HE3	1:E:2232:CYS:SG	2.59	0.43
1:E:2625:ARG:NH1	1:E:2906:VAL:HG12	2.33	0.43
1:E:3233:PRO:HD2	1:E:3239:MET:SD	2.58	0.43
1:E:4211:LYS:O	1:E:4215:ARG:HG3	2.19	0.43
1:E:4558:ASN:O	1:E:4562:LEU:HG	2.18	0.43
1:E:4823:LEU:O	1:E:4827:LEU:HG	2.19	0.43
1:E:4865:LYS:HB3	1:E:4873:ASP:OD2	2.18	0.43
1:G:2575:ARG:HB3	1:G:2578:MET:HG2	2.01	0.43
1:G:2648:TYR:CE2	1:G:2706:ILE:HG12	2.54	0.43
1:G:4558:ASN:O	1:G:4562:LEU:HG	2.18	0.43
1:G:4930:ALA:HB1	1:J:4937:ILE:HD11	2.01	0.43
1:J:636:ASN:OD1	1:J:637:LEU:N	2.52	0.43
1:J:2625:ARG:NH1	1:J:2906:VAL:HG12	2.33	0.43
1:J:2874:MET:HG3	1:J:2937:VAL:CG2	2.48	0.43
1:J:3765:TYR:O	1:J:3769:ARG:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4211:LYS:O	1:J:4215:ARG:HG3	2.19	0.43
3:F:71:ARG:CB	3:F:78:VAL:HG22	2.49	0.43
3:M:47:LEU:O	3:M:62:SER:OG	2.37	0.43
1:B:360:ALA:HA	1:B:377:ILE:HD13	2.01	0.43
1:B:411:TYR:HB2	1:B:486:LEU:HD21	2.00	0.43
1:B:917:GLU:HB3	3:C:104:TYR:OH	2.18	0.43
1:B:973:SER:HA	1:B:1044:ARG:NH2	2.28	0.43
1:B:1495:VAL:HB	1:B:1500:PHE:CZ	2.54	0.43
1:B:1730:MET:HE1	1:B:1772:ARG:HD3	2.00	0.43
1:B:2001:PRO:O	1:B:2005:GLN:HG3	2.19	0.43
1:B:2648:TYR:CE2	1:B:2706:ILE:HG12	2.54	0.43
1:B:3342:ALA:HA	1:B:3345:ILE:HG22	2.01	0.43
1:E:118:LEU:HA	1:E:137:LEU:HD23	2.00	0.43
1:E:850:ASP:OD1	1:E:1025:ARG:NH2	2.44	0.43
1:E:894:GLY:HA3	1:E:903:LEU:HD22	2.01	0.43
1:E:1039:LEU:HD11	3:F:107:TRP:CZ2	2.54	0.43
1:E:1730:MET:HE1	1:E:1772:ARG:HD3	2.00	0.43
1:E:3018:LEU:HD21	1:E:3150:HIS:NE2	2.34	0.43
1:E:3068:LEU:HD23	1:E:3139:VAL:HG21	2.00	0.43
1:E:3069:HIS:O	1:E:3073:ARG:HG3	2.19	0.43
1:E:3281:LEU:HG	1:E:3315:LEU:HD12	2.01	0.43
1:E:3537:LYS:HE2	1:E:3537:LYS:HB3	1.90	0.43
1:G:3416:VAL:HG23	1:G:3423:TRP:HZ3	1.83	0.43
1:G:4822:THR:O	1:G:4825:THR:OG1	2.23	0.43
1:J:182:LEU:HD11	1:J:189:LEU:HB3	2.01	0.43
1:J:471:LEU:HD13	1:J:474:ARG:HH21	1.84	0.43
1:J:548:VAL:HG21	1:J:582:HIS:CD2	2.54	0.43
1:J:688:LEU:HD23	1:J:712:TYR:HD1	1.83	0.43
1:J:917:GLU:OE1	3:K:101:PRO:HB2	2.18	0.43
1:J:1000:ARG:HB3	1:J:1005:TRP:HB2	2.00	0.43
1:J:2754:PHE:HE1	1:J:2933:ASN:ND2	2.17	0.43
1:J:3068:LEU:HD23	1:J:3139:VAL:HG21	2.00	0.43
1:J:3342:ALA:HA	1:J:3345:ILE:HG22	2.01	0.43
1:J:3398:PHE:CD1	1:J:3451:PHE:HD1	2.37	0.43
2:A:29:MET:N	2:A:29:MET:SD	2.92	0.43
3:M:64:LYS:HD3	3:M:64:LYS:N	2.34	0.43
1:B:880:GLU:HA	1:B:967:PRO:HB2	2.01	0.43
1:B:1965:TYR:CE2	1:B:2031:LEU:HD22	2.54	0.43
1:B:2596:THR:HB	1:B:2599:GLN:HG3	2.01	0.43
1:B:4654:ALA:O	1:B:4658:ILE:HG12	2.19	0.43
1:B:4727:LYS:HD3	1:B:4728:HIS:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:40:GLU:HG2	1:E:42:PHE:H	1.83	0.43
1:E:322:LYS:HZ2	1:E:354:GLY:HA2	1.84	0.43
1:E:2351:ASN:O	1:E:2355:ARG:HG2	2.19	0.43
1:E:2735:PHE:CG	1:E:2907:PRO:HG3	2.54	0.43
1:E:2788:HIS:HE1	1:E:2790:MET:HB2	1.83	0.43
1:E:2806:ARG:CG	1:E:2810:LYS:HZ3	2.32	0.43
1:E:2859:PRO:HB2	1:E:2932:MET:SD	2.58	0.43
1:E:2926:LEU:O	1:E:2930:LEU:HG	2.19	0.43
1:E:3342:ALA:HA	1:E:3345:ILE:HG22	2.01	0.43
1:E:3670:GLU:O	1:E:3673:MET:HB2	2.19	0.43
1:E:3955:MET:CE	1:E:4015:GLU:HG2	2.48	0.43
1:G:548:VAL:HG21	1:G:582:HIS:CD2	2.54	0.43
1:G:1042:ALA:O	1:G:1045:THR:OG1	2.22	0.43
1:G:2025:GLU:HA	1:G:2028:ARG:HE	1.84	0.43
1:G:2121:PHE:CG	1:G:3701:LEU:HD13	2.54	0.43
1:G:3069:HIS:O	1:G:3073:ARG:HG3	2.19	0.43
1:G:3204:ALA:HB2	1:G:3304:CYS:SG	2.58	0.43
1:G:3723:MET:SD	1:G:3793:MET:HE1	2.59	0.43
1:G:3724:ALA:O	1:G:3728:ILE:HG13	2.19	0.43
1:G:4054:ASN:O	1:G:4058:ILE:HG13	2.19	0.43
1:G:4823:LEU:O	1:G:4827:LEU:HG	2.19	0.43
1:J:245:VAL:HG23	1:J:376:ALA:HB3	2.00	0.43
1:J:360:ALA:HA	1:J:377:ILE:HD13	2.01	0.43
1:J:1778:SER:HB2	1:J:1798:LEU:HB2	2.01	0.43
1:J:1965:TYR:CE2	1:J:2031:LEU:HD22	2.54	0.43
1:J:2025:GLU:HA	1:J:2028:ARG:HE	1.84	0.43
1:J:2742:THR:HG21	1:J:2815:ALA:N	2.34	0.43
1:J:2978:GLU:CD	1:J:3053:ARG:HD2	2.44	0.43
1:J:3395:ARG:HG2	1:J:3450:ASN:OD1	2.17	0.43
1:J:4054:ASN:O	1:J:4058:ILE:HG13	2.19	0.43
1:J:4654:ALA:O	1:J:4658:ILE:HG12	2.19	0.43
1:B:595:ARG:HH12	1:B:1643:GLU:CD	2.27	0.42
1:B:2351:ASN:O	1:B:2355:ARG:HG2	2.19	0.42
1:E:828:GLU:HG3	1:E:840:VAL:HG21	2.01	0.42
1:E:973:SER:HA	1:E:1044:ARG:NH2	2.28	0.42
1:E:1123:VAL:HG13	1:E:1132:TRP:HB3	2.01	0.42
1:E:1130:GLN:HG2	1:E:1138:PRO:HA	2.00	0.42
1:E:2740:VAL:HG12	1:E:2742:THR:HB	2.01	0.42
1:E:2755:ILE:HG22	1:E:2810:LYS:NZ	2.34	0.42
1:E:3204:ALA:HB2	1:E:3304:CYS:SG	2.58	0.42
1:E:3219:TYR:O	1:E:3227:ARG:NH2	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4080:TYR:CG	1:E:4096:ALA:HB2	2.54	0.42
1:G:17:ASP:HB2	1:G:98:HIS:CE1	2.54	0.42
1:G:547:VAL:O	1:G:551:LEU:HG	2.20	0.42
1:G:1000:ARG:HB3	1:G:1005:TRP:HB2	2.00	0.42
1:G:1039:LEU:HD11	3:M:107:TRP:CZ2	2.54	0.42
1:G:2318:TYR:HA	1:G:2395:PRO:HA	2.01	0.42
1:G:3018:LEU:HD21	1:G:3150:HIS:NE2	2.34	0.42
1:G:3068:LEU:HD23	1:G:3139:VAL:HG21	2.00	0.42
1:G:4003:LEU:HB2	1:G:4013:LEU:HD13	2.00	0.42
1:G:4160:LEU:HA	1:G:4163:PHE:HD2	1.84	0.42
1:G:4716:TRP:CD1	6:G:5103:CFF:C4	3.02	0.42
1:J:984:LEU:HD23	1:J:987:ARG:NH2	2.34	0.42
1:J:1748:PHE:HD1	1:J:1749:PRO:HD2	1.84	0.42
1:J:2211:MET:HE3	1:J:2232:CYS:SG	2.58	0.42
1:J:2625:ARG:HA	1:J:2625:ARG:NE	2.33	0.42
1:J:3670:GLU:O	1:J:3673:MET:HB2	2.19	0.42
1:J:4247:ILE:O	1:J:4251:ILE:HG13	2.18	0.42
1:J:4652:LEU:O	1:J:4656:LEU:HG	2.18	0.42
1:B:688:LEU:HD23	1:B:712:TYR:HD1	1.83	0.42
1:B:2128:TYR:CG	1:B:3673:MET:HE1	2.54	0.42
1:B:2449:GLU:HA	1:B:2452:ARG:HD3	2.00	0.42
1:B:2625:ARG:NH1	1:B:2906:VAL:HG12	2.33	0.42
1:B:2788:HIS:HE1	1:B:2790:MET:HB2	1.83	0.42
1:B:3204:ALA:HB2	1:B:3304:CYS:SG	2.58	0.42
1:B:3281:LEU:HG	1:B:3315:LEU:HD12	2.01	0.42
1:B:4772:ASP:N	1:B:4772:ASP:OD1	2.49	0.42
1:E:2175:GLU:O	1:E:2179:ILE:HG12	2.19	0.42
1:E:2648:TYR:CE2	1:E:2706:ILE:HG12	2.54	0.42
1:E:2821:TRP:CD1	1:E:2874:MET:SD	3.13	0.42
1:E:4796:MET:O	1:E:4800:LEU:HG	2.19	0.42
1:G:1495:VAL:HB	1:G:1500:PHE:CZ	2.54	0.42
1:G:1515:VAL:HB	1:G:1532:ASN:HA	2.00	0.42
1:G:2211:MET:HE3	1:G:2232:CYS:SG	2.58	0.42
1:G:2742:THR:HG21	1:G:2815:ALA:N	2.34	0.42
1:G:3164:SER:O	1:G:3168:THR:HG23	2.19	0.42
1:G:3670:GLU:O	1:G:3673:MET:HB2	2.19	0.42
1:G:3955:MET:CE	1:G:4015:GLU:HG2	2.48	0.42
1:G:4839:MET:HE3	1:J:4822:THR:HB	2.01	0.42
1:J:17:ASP:HB2	1:J:98:HIS:CE1	2.54	0.42
1:J:828:GLU:HG3	1:J:840:VAL:HG21	2.01	0.42
1:J:2821:TRP:CD1	1:J:2874:MET:SD	3.12	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:2920:ARG:HH11	1:J:2924:GLN:HE21	1.66	0.42
1:J:2926:LEU:O	1:J:2930:LEU:HG	2.19	0.42
1:J:3156:VAL:HG23	1:J:3157:ILE:HG13	2.01	0.42
1:J:3723:MET:SD	1:J:3793:MET:HE1	2.59	0.42
1:J:4546:VAL:HA	1:J:4549:VAL:HG22	2.01	0.42
2:A:41:ASP:OD1	2:A:42:ARG:N	2.52	0.42
2:H:41:ASP:OD1	2:H:42:ARG:N	2.52	0.42
1:B:470:SER:O	1:B:474:ARG:HG3	2.18	0.42
1:B:548:VAL:HG21	1:B:582:HIS:CD2	2.54	0.42
1:B:636:ASN:OD1	1:B:637:LEU:N	2.52	0.42
1:B:2754:PHE:HE1	1:B:2933:ASN:ND2	2.17	0.42
1:B:2958:GLY:O	1:B:2962:GLN:HG2	2.20	0.42
1:B:3724:ALA:O	1:B:3728:ILE:HG13	2.19	0.42
1:B:3765:TYR:O	1:B:3769:ARG:HG3	2.18	0.42
1:E:471:LEU:HD13	1:E:474:ARG:HH21	1.84	0.42
1:E:1128:ARG:HE	1:E:1130:GLN:NE2	2.17	0.42
1:E:1786:LEU:HD22	2:D:87:HIS:HD2	1.84	0.42
1:E:2754:PHE:HE1	1:E:2933:ASN:ND2	2.17	0.42
1:E:3164:SER:O	1:E:3168:THR:HG23	2.20	0.42
1:E:3437:MET:O	1:E:3441:ILE:HG13	2.18	0.42
1:E:3765:TYR:O	1:E:3769:ARG:HG3	2.18	0.42
1:E:3945:GLU:O	1:E:3949:ARG:HG3	2.19	0.42
1:E:4242:ILE:HA	1:E:4245:MET:HG2	2.00	0.42
1:E:4546:VAL:HA	1:E:4549:VAL:HG22	2.01	0.42
1:E:4727:LYS:HD3	1:E:4728:HIS:CE1	2.53	0.42
1:G:471:LEU:HD13	1:G:474:ARG:HH21	1.84	0.42
1:G:920:TYR:CG	3:M:101:PRO:HG3	2.53	0.42
1:G:984:LEU:HD23	1:G:987:ARG:NH2	2.34	0.42
1:G:1730:MET:HE1	1:G:1772:ARG:HD3	2.00	0.42
1:G:1808:ARG:NH1	1:G:1853:ILE:O	2.49	0.42
1:G:1965:TYR:CE2	1:G:2031:LEU:HD22	2.54	0.42
1:G:2978:GLU:CD	1:G:3053:ARG:HD2	2.44	0.42
1:G:3321:ARG:NH1	1:G:3325:ASN:OD1	2.51	0.42
1:G:3342:ALA:HA	1:G:3345:ILE:HG22	2.01	0.42
1:J:547:VAL:O	1:J:551:LEU:HG	2.20	0.42
1:J:2648:TYR:CE2	1:J:2706:ILE:HG12	2.54	0.42
1:J:3144:PHE:CD2	1:J:3197:LEU:HB3	2.55	0.42
1:J:3281:LEU:HG	1:J:3315:LEU:HD12	2.01	0.42
1:J:3321:ARG:NH1	1:J:3325:ASN:OD1	2.51	0.42
1:J:3955:MET:CE	1:J:4015:GLU:HG2	2.48	0.42
3:C:47:LEU:O	3:C:62:SER:OG	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:52:THR:OG1	3:K:56:SER:HB2	2.19	0.42
1:B:17:ASP:HB2	1:B:98:HIS:CE1	2.54	0.42
1:B:822:ARG:NH2	1:B:824:GLU:OE1	2.52	0.42
1:B:917:GLU:OE1	3:C:101:PRO:HB2	2.19	0.42
1:B:1247:PRO:HA	1:B:1598:GLN:HA	2.01	0.42
1:B:2121:PHE:CG	1:B:3701:LEU:HD13	2.54	0.42
1:B:2742:THR:HG21	1:B:2815:ALA:N	2.34	0.42
1:B:3068:LEU:HD23	1:B:3139:VAL:HG21	2.00	0.42
1:B:4160:LEU:HA	1:B:4163:PHE:HD2	1.84	0.42
1:E:46:LEU:HA	1:E:136:GLY:CA	2.49	0.42
1:E:548:VAL:HG21	1:E:582:HIS:CD2	2.54	0.42
1:E:1078:GLU:CD	1:E:1237:TRP:HE1	2.27	0.42
1:E:2121:PHE:CG	1:E:3701:LEU:HD13	2.54	0.42
1:E:2742:THR:HG21	1:E:2815:ALA:N	2.34	0.42
1:E:2970:SER:HA	1:E:2973:PHE:CD2	2.53	0.42
1:E:2978:GLU:CD	1:E:3053:ARG:HD2	2.44	0.42
1:E:4652:LEU:O	1:E:4656:LEU:HG	2.18	0.42
1:G:636:ASN:OD1	1:G:637:LEU:N	2.52	0.42
1:G:913:LEU:HD13	3:M:104:TYR:OH	2.19	0.42
1:G:2351:ASN:O	1:G:2355:ARG:HG2	2.19	0.42
1:G:2474:LEU:HD23	1:G:2499:LYS:NZ	2.35	0.42
1:G:2747:ILE:H	1:G:2814:LYS:HZ2	1.66	0.42
1:G:2821:TRP:CD1	1:G:2874:MET:SD	3.12	0.42
1:G:3660:ALA:O	1:G:3664:THR:OG1	2.34	0.42
1:G:4023:MET:HE2	1:G:4023:MET:HA	2.01	0.42
1:G:4541:TRP:O	1:G:4544:LEU:HG	2.20	0.42
1:G:4796:MET:O	1:G:4800:LEU:HG	2.19	0.42
1:J:850:ASP:OD1	1:J:1025:ARG:NH2	2.44	0.42
1:J:1123:VAL:HG13	1:J:1132:TRP:HB3	2.01	0.42
1:J:1786:LEU:HD22	2:I:87:HIS:CD2	2.55	0.42
1:J:2596:THR:HB	1:J:2599:GLN:HG3	2.01	0.42
1:J:2740:VAL:HG12	1:J:2742:THR:HB	2.01	0.42
1:J:3287:ARG:N	1:J:3287:ARG:HD2	2.35	0.42
1:J:3378:GLN:O	1:J:3381:LEU:HG	2.20	0.42
1:J:3963:ASN:O	1:J:3967:GLU:HG2	2.19	0.42
2:H:29:MET:SD	2:H:29:MET:N	2.92	0.42
3:C:82:MET:HE2	3:C:82:MET:HA	2.01	0.42
3:M:52:THR:OG1	3:M:56:SER:HB2	2.19	0.42
3:M:71:ARG:CB	3:M:78:VAL:HG22	2.49	0.42
1:B:46:LEU:HA	1:B:136:GLY:CA	2.49	0.42
1:B:245:VAL:HG23	1:B:376:ALA:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:914:PRO:HB2	1:B:916:PRO:HD2	2.02	0.42
1:B:1126:GLY:HA3	1:B:1143:TRP:CZ3	2.55	0.42
1:B:1658:ASP:OD1	1:B:1658:ASP:N	2.52	0.42
1:B:2474:LEU:HD23	1:B:2499:LYS:NZ	2.35	0.42
1:B:2821:TRP:CD1	1:B:2874:MET:SD	3.13	0.42
1:B:3018:LEU:HD21	1:B:3150:HIS:NE2	2.34	0.42
1:B:3069:HIS:O	1:B:3073:ARG:HG3	2.19	0.42
1:B:3164:SER:O	1:B:3168:THR:HG23	2.19	0.42
1:B:3287:ARG:N	1:B:3287:ARG:HD2	2.35	0.42
1:B:3723:MET:SD	1:B:3793:MET:HE1	2.59	0.42
1:E:914:PRO:HB2	1:E:916:PRO:HD2	2.02	0.42
1:E:917:GLU:HB3	3:F:104:TYR:OH	2.18	0.42
1:E:2575:ARG:HB3	1:E:2578:MET:HG2	2.01	0.42
1:E:3237:GLU:H	1:E:3237:GLU:CD	2.28	0.42
1:E:3287:ARG:N	1:E:3287:ARG:HD2	2.35	0.42
1:G:16:THR:O	1:G:98:HIS:ND1	2.53	0.42
1:G:822:ARG:NH2	1:G:824:GLU:OE1	2.52	0.42
1:G:914:PRO:HB2	1:G:916:PRO:HD2	2.02	0.42
1:G:1100:MET:HB2	1:G:1143:TRP:CZ2	2.55	0.42
1:G:2001:PRO:O	1:G:2005:GLN:HG3	2.19	0.42
1:G:2691:TYR:HA	1:G:2696:TYR:CE1	2.55	0.42
1:G:3144:PHE:CD2	1:G:3197:LEU:HB3	2.55	0.42
1:G:3287:ARG:HD2	1:G:3287:ARG:N	2.35	0.42
1:G:3347:SER:HB2	1:G:3414:ARG:NH2	2.34	0.42
1:G:4080:TYR:CG	1:G:4096:ALA:HB2	2.54	0.42
1:J:248:GLU:HG2	1:J:372:LEU:HB2	2.01	0.42
1:J:250:GLY:N	1:J:253:CYS:SG	2.92	0.42
1:J:914:PRO:HB2	1:J:916:PRO:HD2	2.02	0.42
1:J:1128:ARG:HE	1:J:1130:GLN:NE2	2.18	0.42
1:J:1515:VAL:HB	1:J:1532:ASN:HA	2.00	0.42
1:J:1526:LEU:HD23	1:J:1526:LEU:H	1.84	0.42
1:J:2879:ALA:HA	1:J:2882:TYR:HD2	1.84	0.42
1:J:3321:ARG:O	1:J:3324:VAL:HG12	2.20	0.42
1:J:3352:GLU:OE1	1:J:3352:GLU:N	2.49	0.42
2:D:29:MET:N	2:D:29:MET:SD	2.92	0.42
1:B:248:GLU:HG2	1:B:372:LEU:HB2	2.01	0.42
1:B:797:HIS:HE1	1:B:1626:TRP:CD1	2.37	0.42
1:B:1078:GLU:CD	1:B:1237:TRP:HE1	2.27	0.42
1:B:1130:GLN:HG2	1:B:1138:PRO:HA	2.00	0.42
1:B:1786:LEU:HD22	2:A:87:HIS:CD2	2.55	0.42
1:B:2883:HIS:CE1	1:B:2907:PRO:HA	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2970:SER:HA	1:B:2973:PHE:CD2	2.53	0.42
1:B:3670:GLU:O	1:B:3673:MET:HB2	2.19	0.42
1:B:3945:GLU:O	1:B:3949:ARG:HG3	2.19	0.42
1:B:4054:ASN:O	1:B:4058:ILE:HG13	2.19	0.42
1:B:4064:MET:HA	1:B:4103:PHE:HE1	1.85	0.42
1:B:4546:VAL:HA	1:B:4549:VAL:HG22	2.01	0.42
1:B:4937:ILE:HD11	1:E:4930:ALA:HB1	2.02	0.42
1:E:36:CYS:HB3	1:E:52:THR:HG21	2.02	0.42
1:E:182:LEU:HD11	1:E:189:LEU:HB3	2.01	0.42
1:E:411:TYR:HB2	1:E:486:LEU:HD21	2.00	0.42
1:E:468:LEU:O	1:E:472:ARG:HG2	2.20	0.42
1:E:880:GLU:HA	1:E:967:PRO:HB2	2.01	0.42
1:E:880:GLU:O	1:E:884:LEU:HG	2.20	0.42
1:E:1495:VAL:HB	1:E:1500:PHE:CZ	2.54	0.42
1:E:3359:ILE:HG23	1:E:3437:MET:HE1	2.00	0.42
1:E:3724:ALA:O	1:E:3728:ILE:HG13	2.19	0.42
1:E:4064:MET:HA	1:E:4103:PHE:HE1	1.85	0.42
1:G:292:ALA:HB2	1:G:312:THR:HG22	2.00	0.42
1:G:474:ARG:O	1:G:478:PHE:HD1	2.03	0.42
1:G:1526:LEU:H	1:G:1526:LEU:HD23	1.84	0.42
1:G:1698:LEU:HG	1:G:1712:TYR:CZ	2.54	0.42
1:G:1786:LEU:HD22	2:H:87:HIS:CD2	2.55	0.42
1:G:2175:GLU:O	1:G:2179:ILE:HG12	2.19	0.42
1:G:2735:PHE:CG	1:G:2907:PRO:HG3	2.54	0.42
1:G:2740:VAL:HG12	1:G:2742:THR:HB	2.01	0.42
1:G:3038:MET:O	1:G:3042:LEU:HD23	2.20	0.42
1:G:3923:LEU:HD22	1:G:3965:LEU:HD11	2.01	0.42
1:G:4013:LEU:O	1:G:4017:LEU:HG	2.20	0.42
1:G:4088:ILE:HG21	1:G:4125:PHE:HB3	2.01	0.42
1:G:4242:ILE:HA	1:G:4245:MET:HG2	2.00	0.42
1:J:917:GLU:HB3	3:K:104:TYR:OH	2.19	0.42
1:J:1698:LEU:HG	1:J:1712:TYR:CZ	2.54	0.42
1:J:2128:TYR:CG	1:J:3673:MET:HE1	2.54	0.42
1:J:2823:ILE:O	1:J:2825:LYS:NZ	2.49	0.42
1:J:4558:ASN:O	1:J:4562:LEU:HG	2.18	0.42
1:J:4658:ILE:CD1	1:J:4792:LEU:HB3	2.50	0.42
1:J:4859:PHE:HE1	1:J:4909:TYR:HB3	1.85	0.42
2:I:29:MET:N	2:I:29:MET:SD	2.92	0.42
3:F:64:LYS:N	3:F:64:LYS:HD3	2.34	0.42
3:K:82:MET:HE2	3:K:82:MET:HA	2.01	0.42
3:M:94:TYR:HD1	3:M:120:GLY:HA3	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:36:CYS:HB3	1:B:52:THR:HG21	2.02	0.42
1:B:1123:VAL:HG13	1:B:1132:TRP:HB3	2.01	0.42
1:B:2128:TYR:CB	1:B:3673:MET:HE1	2.50	0.42
1:B:2318:TYR:HA	1:B:2395:PRO:HA	2.01	0.42
1:B:2791:LEU:HD12	1:B:2791:LEU:HA	1.93	0.42
1:B:2914:LYS:HD2	1:B:2915:GLU:N	2.35	0.42
1:B:3144:PHE:CD2	1:B:3197:LEU:HB3	2.55	0.42
1:B:4003:LEU:HB3	1:B:4013:LEU:HB2	2.02	0.42
1:B:4013:LEU:O	1:B:4017:LEU:HG	2.20	0.42
1:E:372:LEU:H	1:E:372:LEU:HD22	1.84	0.42
1:E:547:VAL:O	1:E:551:LEU:HG	2.19	0.42
1:E:822:ARG:NH2	1:E:824:GLU:OE1	2.52	0.42
1:E:874:LEU:HD21	1:E:1051:TYR:OH	2.19	0.42
1:E:984:LEU:HD23	1:E:987:ARG:NH2	2.34	0.42
1:E:1932:PRO:O	1:E:1936:LYS:HG3	2.20	0.42
1:E:2025:GLU:HA	1:E:2028:ARG:HE	1.84	0.42
1:E:3321:ARG:O	1:E:3324:VAL:HG12	2.20	0.42
1:E:3378:GLN:O	1:E:3381:LEU:HG	2.19	0.42
1:E:3521:GLY:HA2	1:E:3524:MET:HG2	2.02	0.42
1:E:4003:LEU:HB3	1:E:4013:LEU:HB2	2.02	0.42
1:E:4054:ASN:O	1:E:4058:ILE:HG13	2.19	0.42
1:E:4658:ILE:CD1	1:E:4792:LEU:HB3	2.50	0.42
1:G:182:LEU:HD11	1:G:189:LEU:HB3	2.01	0.42
1:G:1130:GLN:HG2	1:G:1138:PRO:HA	2.00	0.42
1:G:2128:TYR:CG	1:G:3673:MET:HE1	2.54	0.42
1:G:2920:ARG:HH11	1:G:2924:GLN:HE21	1.66	0.42
1:G:4654:ALA:O	1:G:4658:ILE:HG12	2.19	0.42
1:J:468:LEU:O	1:J:472:ARG:HG2	2.20	0.42
1:J:771:PHE:HB3	1:J:1472:VAL:HG23	2.01	0.42
1:J:822:ARG:NH2	1:J:824:GLU:OE1	2.52	0.42
1:J:894:GLY:HA3	1:J:903:LEU:HD22	2.01	0.42
1:J:1088:TRP:HA	1:J:1224:GLU:O	2.20	0.42
1:J:1495:VAL:HB	1:J:1500:PHE:CZ	2.54	0.42
1:J:2175:GLU:O	1:J:2179:ILE:HG12	2.19	0.42
1:J:3038:MET:O	1:J:3042:LEU:HD23	2.20	0.42
1:J:3069:HIS:O	1:J:3073:ARG:HG3	2.19	0.42
1:J:3164:SER:O	1:J:3168:THR:HG23	2.19	0.42
3:F:100:VAL:HG22	3:F:105:ASN:HB2	2.00	0.42
1:B:371:VAL:HG12	1:B:373:LYS:HB2	2.01	0.42
1:B:828:GLU:HG3	1:B:840:VAL:HG21	2.01	0.42
1:B:1000:ARG:HB3	1:B:1005:TRP:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2158:CYS:O	1:B:2162:ILE:HG13	2.20	0.42
1:B:2626:LEU:CG	1:B:2640:PRO:HB3	2.50	0.42
1:B:2691:TYR:HA	1:B:2696:TYR:CE1	2.55	0.42
1:B:3450:ASN:HA	1:B:3453:ARG:HG2	2.02	0.42
1:B:3521:GLY:HA2	1:B:3524:MET:HG2	2.02	0.42
1:B:4080:TYR:CG	1:B:4096:ALA:HB2	2.54	0.42
1:B:4188:ARG:HD2	1:B:4191:GLU:HG3	2.02	0.42
1:B:4211:LYS:O	1:B:4215:ARG:HG3	2.19	0.42
1:B:4796:MET:O	1:B:4800:LEU:HG	2.19	0.42
1:B:4859:PHE:HE1	1:B:4909:TYR:HB3	1.85	0.42
1:E:516:LYS:HE2	1:E:516:LYS:HB2	1.82	0.42
1:E:1698:LEU:HG	1:E:1712:TYR:CZ	2.54	0.42
1:E:2625:ARG:HA	1:E:2625:ARG:NE	2.34	0.42
1:E:3156:VAL:HG23	1:E:3157:ILE:HG13	2.01	0.42
1:E:4124:ASN:OD1	1:E:4125:PHE:N	2.53	0.42
1:G:2128:TYR:CB	1:G:3673:MET:HE1	2.50	0.42
1:G:2158:CYS:O	1:G:2162:ILE:HG13	2.20	0.42
1:G:2605:ASP:HA	1:G:2608:MET:HG2	2.02	0.42
1:G:2819:TRP:NE1	1:G:2881:ASN:OD1	2.42	0.42
1:G:2914:LYS:HD2	1:G:2915:GLU:N	2.35	0.42
1:G:4802:GLY:HA2	1:G:4808:PHE:HB2	2.02	0.42
1:J:247:TYR:CB	1:J:374:LYS:HB2	2.47	0.42
1:J:874:LEU:O	1:J:878:ILE:HG12	2.18	0.42
1:J:880:GLU:O	1:J:884:LEU:HG	2.20	0.42
1:J:1078:GLU:CD	1:J:1237:TRP:HE1	2.27	0.42
1:J:2001:PRO:O	1:J:2005:GLN:HG3	2.19	0.42
1:J:2351:ASN:O	1:J:2355:ARG:HG2	2.19	0.42
1:J:2626:LEU:CG	1:J:2640:PRO:HB3	2.50	0.42
1:J:2735:PHE:CG	1:J:2907:PRO:HG3	2.54	0.42
1:J:3219:TYR:O	1:J:3227:ARG:NH2	2.38	0.42
1:J:4023:MET:HE2	1:J:4023:MET:HA	2.01	0.42
1:J:4080:TYR:CG	1:J:4096:ALA:HB2	2.54	0.42
3:C:4:LEU:HD22	3:C:118:GLY:HA3	2.01	0.42
1:B:471:LEU:HD13	1:B:474:ARG:HH21	1.84	0.42
1:B:1037:ASP:N	1:B:1037:ASP:OD1	2.53	0.42
1:B:1530:THR:HG23	1:B:1534:LYS:C	2.45	0.42
1:B:1666:THR:HG22	1:B:1670:TYR:CE2	2.55	0.42
1:B:1830:VAL:HB	1:B:1837:GLN:HG3	2.02	0.42
1:B:2025:GLU:HA	1:B:2028:ARG:HE	1.84	0.42
1:B:3237:GLU:H	1:B:3237:GLU:CD	2.28	0.42
1:B:3321:ARG:O	1:B:3324:VAL:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4023:MET:HA	1:B:4023:MET:HE2	2.01	0.42
1:B:4822:THR:HB	1:E:4839:MET:HE3	2.02	0.42
1:E:587:ILE:HD12	1:E:624:ASN:HB3	2.02	0.42
1:E:1000:ARG:HB3	1:E:1005:TRP:HB2	2.00	0.42
1:E:1037:ASP:OD1	1:E:1037:ASP:N	2.53	0.42
1:E:1088:TRP:HA	1:E:1224:GLU:O	2.20	0.42
1:E:2452:ARG:O	1:E:2456:ILE:HG13	2.20	0.42
1:E:2806:ARG:NH1	1:E:2810:LYS:HG3	2.35	0.42
1:E:3062:PRO:HA	1:E:3065:VAL:HG22	2.02	0.42
1:E:4088:ILE:HG21	1:E:4125:PHE:HB3	2.01	0.42
1:G:1088:TRP:HA	1:G:1224:GLU:O	2.20	0.42
1:G:1099:GLU:O	1:G:1100:MET:HE2	2.20	0.42
1:G:3156:VAL:HG23	1:G:3157:ILE:HG13	2.01	0.42
1:G:3349:ALA:HB1	1:G:3353:LEU:HD12	2.02	0.42
1:G:3450:ASN:HA	1:G:3453:ARG:HG2	2.02	0.42
1:G:3521:GLY:HA2	1:G:3524:MET:HG2	2.02	0.42
1:J:453:GLU:HA	1:J:454:PRO:HD3	1.96	0.42
1:J:1100:MET:HB2	1:J:1143:TRP:CZ2	2.55	0.42
1:J:2158:CYS:O	1:J:2162:ILE:HG13	2.20	0.42
1:J:2605:ASP:HA	1:J:2608:MET:HG2	2.02	0.42
1:J:2759:ALA:HB1	1:J:2806:ARG:HA	2.02	0.42
1:J:3219:TYR:CZ	1:J:3239:MET:HE1	2.55	0.42
1:J:3517:MET:SD	1:J:3517:MET:N	2.93	0.42
1:J:4003:LEU:HB3	1:J:4013:LEU:HB2	2.02	0.42
1:J:4182:GLU:OE1	1:J:4983:HIS:NE2	2.52	0.42
1:J:4691:GLN:HB2	1:J:4703:ARG:HH22	1.85	0.42
3:K:122:GLN:HE21	3:K:124:THR:HG1	1.61	0.42
1:B:1128:ARG:HE	1:B:1130:GLN:NE2	2.18	0.42
1:B:2598:ALA:O	1:B:2602:VAL:HG23	2.20	0.42
1:B:3349:ALA:HB1	1:B:3353:LEU:HD12	2.02	0.42
1:E:16:THR:O	1:E:98:HIS:ND1	2.53	0.42
1:E:467:LYS:HE3	1:E:467:LYS:HB3	1.87	0.42
1:E:1126:GLY:HA3	1:E:1143:TRP:CZ3	2.55	0.42
1:E:1247:PRO:HA	1:E:1598:GLN:HA	2.01	0.42
1:E:1658:ASP:OD1	1:E:1658:ASP:N	2.52	0.42
1:E:1808:ARG:NH1	1:E:1853:ILE:O	2.49	0.42
1:E:1830:VAL:HB	1:E:1837:GLN:HG3	2.02	0.42
1:E:2862:LEU:HD23	1:E:2864:GLY:H	1.85	0.42
1:E:3250:MET:HA	1:E:3253:ILE:HG22	2.02	0.42
1:E:3962:PHE:O	1:E:3966:THR:HG23	2.20	0.42
1:E:4541:TRP:O	1:E:4544:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:36:CYS:HB3	1:G:52:THR:HG21	2.02	0.42
1:G:48:PHE:HD2	1:G:50:GLU:OE1	2.03	0.42
1:G:688:LEU:HD23	1:G:712:TYR:HD1	1.83	0.42
1:G:984:LEU:HD23	1:G:987:ARG:HH21	1.85	0.42
1:G:3281:LEU:HG	1:G:3315:LEU:HD12	2.01	0.42
1:G:3321:ARG:O	1:G:3324:VAL:HG12	2.20	0.42
1:G:3432:GLU:O	1:G:3435:PHE:HB3	2.20	0.42
1:G:4003:LEU:HB3	1:G:4013:LEU:HB2	2.02	0.42
1:G:4064:MET:HA	1:G:4103:PHE:HE1	1.85	0.42
1:J:371:VAL:HG12	1:J:373:LYS:HB2	2.01	0.42
1:J:1099:GLU:O	1:J:1100:MET:HE2	2.20	0.42
1:J:1666:THR:HG22	1:J:1670:TYR:CE2	2.55	0.42
1:J:2121:PHE:O	1:J:3725:TYR:OH	2.35	0.42
1:J:2452:ARG:O	1:J:2456:ILE:HG13	2.20	0.42
1:J:2575:ARG:HB3	1:J:2578:MET:HG2	2.01	0.42
1:J:3670:GLU:OE1	1:J:3732:SER:HB3	2.20	0.42
1:J:3945:GLU:O	1:J:3949:ARG:HG3	2.19	0.42
1:J:4013:LEU:O	1:J:4017:LEU:HG	2.20	0.42
1:J:4064:MET:HA	1:J:4103:PHE:HE1	1.85	0.42
1:J:4124:ASN:OD1	1:J:4125:PHE:N	2.53	0.42
1:J:4160:LEU:HA	1:J:4163:PHE:HD2	1.84	0.42
1:B:880:GLU:O	1:B:884:LEU:HG	2.19	0.41
1:B:894:GLY:HA3	1:B:903:LEU:HD22	2.01	0.41
1:B:2230:THR:HG22	1:B:2234:ARG:HH11	1.85	0.41
1:B:2605:ASP:HA	1:B:2608:MET:HG2	2.02	0.41
1:B:2764:GLU:HA	1:B:2855:TYR:CE2	2.55	0.41
1:B:3352:GLU:OE1	1:B:3352:GLU:N	2.49	0.41
1:B:3378:GLN:O	1:B:3381:LEU:HG	2.20	0.41
1:B:4541:TRP:O	1:B:4544:LEU:HG	2.20	0.41
1:E:250:GLY:N	1:E:253:CYS:SG	2.92	0.41
1:E:541:SER:HA	1:E:574:VAL:HG12	2.02	0.41
1:E:913:LEU:HD13	3:F:104:TYR:OH	2.20	0.41
1:E:2691:TYR:HA	1:E:2696:TYR:CE1	2.55	0.41
1:E:2764:GLU:HA	1:E:2855:TYR:CE2	2.55	0.41
1:E:2823:ILE:HA	1:E:2936:ALA:O	2.20	0.41
1:E:3398:PHE:CD1	1:E:3451:PHE:HD1	2.37	0.41
1:E:3723:MET:SD	1:E:3793:MET:HE1	2.59	0.41
1:E:4859:PHE:HE1	1:E:4909:TYR:HB3	1.85	0.41
1:G:363:ASP:HB3	1:G:366:ALA:HB3	2.02	0.41
1:G:880:GLU:HA	1:G:967:PRO:HB2	2.01	0.41
1:G:1078:GLU:CD	1:G:1237:TRP:HE1	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1154:ASP:OD1	1:G:1159:THR:OG1	2.22	0.41
1:G:1666:THR:HG22	1:G:1670:TYR:CE2	2.55	0.41
1:G:2598:ALA:O	1:G:2602:VAL:HG23	2.20	0.41
1:G:3378:GLN:O	1:G:3381:LEU:HG	2.20	0.41
1:G:4546:VAL:HA	1:G:4549:VAL:HG22	2.01	0.41
1:J:2914:LYS:HD2	1:J:2915:GLU:N	2.35	0.41
2:H:30:LEU:N	2:H:34:LYS:O	2.51	0.41
3:F:4:LEU:HD22	3:F:118:GLY:HA3	2.01	0.41
3:K:71:ARG:CB	3:K:78:VAL:HG22	2.49	0.41
1:B:358:THR:HG21	1:B:382:GLY:HA2	2.01	0.41
1:B:2189:LYS:HA	1:B:2192:TYR:CZ	2.55	0.41
1:B:2740:VAL:HG12	1:B:2742:THR:HB	2.01	0.41
1:B:2760:GLU:HA	1:B:2802:LYS:NZ	2.35	0.41
1:B:2806:ARG:NH1	1:B:2810:LYS:HG3	2.35	0.41
1:B:2862:LEU:HD23	1:B:2864:GLY:H	1.85	0.41
1:B:3062:PRO:HA	1:B:3065:VAL:HG22	2.02	0.41
1:B:3449:HIS:HA	1:B:3452:LYS:HZ1	1.85	0.41
1:B:3533:ILE:O	1:B:3537:LYS:HG3	2.20	0.41
1:B:3996:PHE:HZ	1:B:4019:LEU:HG	1.85	0.41
1:B:4802:GLY:HA2	1:B:4808:PHE:HB2	2.02	0.41
1:B:4823:LEU:O	1:B:4827:LEU:HG	2.19	0.41
1:E:1099:GLU:O	1:E:1100:MET:HE2	2.20	0.41
1:E:1274:HIS:O	1:E:1559:GLN:NE2	2.53	0.41
1:E:2464:ASP:HA	1:E:2467:VAL:HG12	2.03	0.41
1:E:2760:GLU:HA	1:E:2802:LYS:NZ	2.35	0.41
1:E:2914:LYS:HD2	1:E:2915:GLU:N	2.35	0.41
1:E:3144:PHE:CD2	1:E:3197:LEU:HB3	2.55	0.41
1:E:3219:TYR:CZ	1:E:3239:MET:HE1	2.55	0.41
1:E:3604:TYR:O	1:E:3607:GLU:HG3	2.20	0.41
1:E:3996:PHE:HZ	1:E:4019:LEU:HG	1.85	0.41
1:E:4904:PRO:HB3	1:E:4913:ARG:HD3	2.02	0.41
1:G:358:THR:HG21	1:G:382:GLY:HA2	2.01	0.41
1:G:437:PRO:HB2	1:G:440:ALA:HB3	2.03	0.41
1:G:541:SER:HA	1:G:574:VAL:HG12	2.02	0.41
1:G:595:ARG:HH12	1:G:1643:GLU:CD	2.27	0.41
1:G:882:TRP:O	1:G:885:THR:OG1	2.33	0.41
1:G:894:GLY:HA3	1:G:903:LEU:HD22	2.01	0.41
1:G:1530:THR:HG23	1:G:1534:LYS:C	2.45	0.41
1:G:2115:GLU:CD	1:G:2115:GLU:H	2.28	0.41
1:G:2626:LEU:CG	1:G:2640:PRO:HB3	2.50	0.41
1:G:2759:ALA:HB1	1:G:2806:ARG:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:46:LEU:HA	1:J:136:GLY:CA	2.49	0.41
1:J:48:PHE:HD2	1:J:50:GLU:OE1	2.03	0.41
1:J:340:LYS:O	1:J:344:SER:OG	2.32	0.41
1:J:467:LYS:HE3	1:J:467:LYS:HB3	1.87	0.41
1:J:514:SER:O	1:J:518:ILE:HG13	2.20	0.41
1:J:917:GLU:HB3	3:K:104:TYR:HH	1.86	0.41
1:J:1126:GLY:HA3	1:J:1143:TRP:CZ3	2.55	0.41
1:J:2474:LEU:HD23	1:J:2499:LYS:NZ	2.35	0.41
1:J:2760:GLU:HA	1:J:2802:LYS:NZ	2.35	0.41
1:J:2764:GLU:HA	1:J:2855:TYR:CE2	2.55	0.41
1:J:2788:HIS:CD2	1:J:2789:PRO:HD2	2.55	0.41
1:J:2823:ILE:HA	1:J:2936:ALA:O	2.20	0.41
1:J:2862:LEU:HD23	1:J:2864:GLY:H	1.85	0.41
1:J:3432:GLU:O	1:J:3435:PHE:HB3	2.20	0.41
1:J:3531:ASP:O	1:J:3535:LEU:HD23	2.20	0.41
2:A:30:LEU:N	2:A:34:LYS:O	2.51	0.41
1:B:363:ASP:HB3	1:B:366:ALA:HB3	2.02	0.41
1:B:547:VAL:O	1:B:551:LEU:HG	2.20	0.41
1:B:984:LEU:HD23	1:B:987:ARG:NH2	2.34	0.41
1:B:1088:TRP:HA	1:B:1224:GLU:O	2.20	0.41
1:B:1101:ARG:NH1	1:B:1114:GLU:HB3	2.34	0.41
1:B:2121:PHE:O	1:B:3725:TYR:OH	2.35	0.41
1:B:3219:TYR:CZ	1:B:3239:MET:HE1	2.55	0.41
1:B:3398:PHE:CD1	1:B:3451:PHE:HD1	2.37	0.41
1:B:3670:GLU:OE1	1:B:3732:SER:HB3	2.20	0.41
1:B:4124:ASN:OD1	1:B:4125:PHE:N	2.53	0.41
1:B:4998:LYS:HG3	1:B:5003:HIS:CE1	2.56	0.41
1:E:453:GLU:HA	1:E:454:PRO:HD3	1.96	0.41
1:E:1078:GLU:HA	1:E:1237:TRP:CD1	2.55	0.41
1:E:1530:THR:HG23	1:E:1534:LYS:C	2.45	0.41
1:E:1666:THR:HG22	1:E:1670:TYR:CE2	2.55	0.41
1:E:2005:GLN:O	1:E:2009:LEU:HD23	2.21	0.41
1:E:2596:THR:HB	1:E:2599:GLN:HG3	2.01	0.41
1:E:2605:ASP:HA	1:E:2608:MET:HG2	2.02	0.41
1:E:2636:PHE:O	1:E:2640:PRO:HD2	2.21	0.41
1:E:2958:GLY:O	1:E:2962:GLN:HG2	2.20	0.41
1:E:3531:ASP:O	1:E:3535:LEU:HD23	2.20	0.41
1:E:3963:ASN:O	1:E:3967:GLU:HG2	2.19	0.41
1:E:4188:ARG:HD2	1:E:4191:GLU:HG3	2.02	0.41
1:G:771:PHE:HB3	1:G:1472:VAL:HG23	2.01	0.41
1:G:2189:LYS:HA	1:G:2192:TYR:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:2596:THR:HB	1:G:2599:GLN:HG3	2.01	0.41
1:G:3250:MET:HA	1:G:3253:ILE:HG22	2.02	0.41
1:G:3398:PHE:CD1	1:G:3451:PHE:HD1	2.37	0.41
1:G:3531:ASP:O	1:G:3535:LEU:HD23	2.20	0.41
1:G:4123:ILE:H	1:G:4123:ILE:HD12	1.85	0.41
1:J:36:CYS:HB3	1:J:52:THR:HG21	2.02	0.41
1:J:541:SER:HA	1:J:574:VAL:HG12	2.02	0.41
1:J:587:ILE:HD12	1:J:624:ASN:HB3	2.02	0.41
1:J:984:LEU:HD23	1:J:987:ARG:HH21	1.85	0.41
1:J:2368:LEU:HD11	1:J:2376:LEU:HD12	2.02	0.41
1:J:2691:TYR:HA	1:J:2696:TYR:CE1	2.55	0.41
1:J:3724:ALA:O	1:J:3728:ILE:HG13	2.19	0.41
1:J:3752:SER:HB2	1:J:3755:GLU:HG3	2.01	0.41
1:J:3996:PHE:HZ	1:J:4019:LEU:HG	1.85	0.41
1:J:4060:LYS:HA	1:J:4063:ASP:OD2	2.21	0.41
1:J:4088:ILE:HG21	1:J:4125:PHE:HB3	2.01	0.41
2:I:62:GLY:HA3	2:I:74:LEU:HD21	2.03	0.41
1:B:16:THR:O	1:B:98:HIS:ND1	2.53	0.41
1:B:48:PHE:HD2	1:B:50:GLU:OE1	2.03	0.41
1:B:113:HIS:NE2	1:B:402:ARG:HB3	2.35	0.41
1:B:474:ARG:O	1:B:478:PHE:HD1	2.03	0.41
1:B:984:LEU:O	1:B:988:LEU:HG	2.21	0.41
1:B:1100:MET:HB2	1:B:1143:TRP:CZ2	2.55	0.41
1:B:1274:HIS:O	1:B:1559:GLN:NE2	2.53	0.41
1:B:1498:GLY:HA2	1:B:1501:VAL:HG12	2.03	0.41
1:B:1927:LEU:HD22	1:B:2101:MET:HG3	2.03	0.41
1:B:1932:PRO:O	1:B:1936:LYS:HG3	2.20	0.41
1:B:2452:ARG:O	1:B:2456:ILE:HG13	2.20	0.41
1:B:2636:PHE:O	1:B:2640:PRO:HD2	2.21	0.41
1:B:3156:VAL:HG23	1:B:3157:ILE:HG13	2.02	0.41
1:B:3537:LYS:HE2	1:B:3537:LYS:HB3	1.90	0.41
1:B:3963:ASN:O	1:B:3967:GLU:HG2	2.19	0.41
1:B:4088:ILE:HG21	1:B:4125:PHE:HB3	2.01	0.41
1:B:4123:ILE:H	1:B:4123:ILE:HD12	1.85	0.41
1:E:2128:TYR:CG	1:E:3673:MET:HE1	2.54	0.41
1:E:2438:PRO:HB2	1:E:2443:ILE:HD11	2.03	0.41
1:E:2474:LEU:HD23	1:E:2499:LYS:NZ	2.35	0.41
1:E:3222:LYS:HD2	1:E:3226:GLU:CD	2.45	0.41
1:E:3670:GLU:OE1	1:E:3732:SER:HB3	2.20	0.41
1:E:3752:SER:HB2	1:E:3755:GLU:HG3	2.01	0.41
1:G:46:LEU:HA	1:G:136:GLY:CA	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:468:LEU:O	1:G:472:ARG:HG2	2.20	0.41
1:G:797:HIS:HE1	1:G:1626:TRP:CD1	2.37	0.41
1:G:1078:GLU:HA	1:G:1237:TRP:CD1	2.55	0.41
1:G:2005:GLN:O	1:G:2009:LEU:HD23	2.21	0.41
1:G:3963:ASN:O	1:G:3967:GLU:HG2	2.21	0.41
1:G:3996:PHE:HZ	1:G:4019:LEU:HG	1.85	0.41
1:G:4996:ILE:HD13	6:G:5103:CFF:C8	2.51	0.41
1:J:100:THR:HG21	1:J:162:LYS:HD3	2.03	0.41
1:J:973:SER:HA	1:J:1044:ARG:NH2	2.28	0.41
1:J:3604:TYR:O	1:J:3607:GLU:HG3	2.20	0.41
1:J:3660:ALA:O	1:J:3664:THR:OG1	2.34	0.41
1:J:4802:GLY:HA2	1:J:4808:PHE:HB2	2.02	0.41
1:J:4904:PRO:HB3	1:J:4913:ARG:HD3	2.02	0.41
1:B:437:PRO:HB2	1:B:440:ALA:HB3	2.03	0.41
1:B:514:SER:O	1:B:518:ILE:HG13	2.20	0.41
1:B:587:ILE:HD12	1:B:624:ASN:HB3	2.02	0.41
1:B:871:ARG:HH11	1:B:922:LEU:HD22	1.86	0.41
1:B:1526:LEU:HD23	1:B:1526:LEU:H	1.84	0.41
1:B:2005:GLN:O	1:B:2009:LEU:HD23	2.21	0.41
1:B:2558:VAL:O	1:B:2562:ILE:HG12	2.21	0.41
1:B:2823:ILE:HA	1:B:2936:ALA:O	2.20	0.41
1:B:2950:SER:HA	1:B:2953:LYS:HB2	2.03	0.41
1:B:3038:MET:O	1:B:3042:LEU:HD23	2.20	0.41
1:B:3413:ILE:HD11	1:B:3512:ALA:HB2	2.03	0.41
1:B:3604:TYR:O	1:B:3607:GLU:HG3	2.20	0.41
1:B:3660:ALA:O	1:B:3664:THR:OG1	2.34	0.41
1:B:3752:SER:HB2	1:B:3755:GLU:HG3	2.01	0.41
1:B:4651:THR:OG1	1:B:4803:HIS:NE2	2.32	0.41
1:B:4658:ILE:CD1	1:B:4792:LEU:HB3	2.50	0.41
1:B:4904:PRO:HB3	1:B:4913:ARG:HD3	2.02	0.41
1:E:360:ALA:HB3	1:E:375:LYS:HB3	2.03	0.41
1:E:984:LEU:HD23	1:E:987:ARG:HH21	1.85	0.41
1:E:1100:MET:HB2	1:E:1143:TRP:CZ2	2.55	0.41
1:E:1758:ARG:NH1	1:E:2037:ASP:HA	2.36	0.41
1:E:1927:LEU:HD22	1:E:2101:MET:HG3	2.02	0.41
1:E:3391:GLU:HA	1:E:3394:VAL:HG22	2.03	0.41
1:E:3450:ASN:HA	1:E:3453:ARG:HG2	2.02	0.41
1:E:3782:MET:HE2	1:E:3782:MET:HB3	1.96	0.41
1:E:4691:GLN:HB2	1:E:4703:ARG:HH22	1.85	0.41
1:G:871:ARG:HD3	1:G:925:SER:HB2	2.02	0.41
1:G:1126:GLY:HA3	1:G:1143:TRP:CZ3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1247:PRO:HA	1:G:1598:GLN:HA	2.01	0.41
1:G:1274:HIS:O	1:G:1559:GLN:NE2	2.53	0.41
1:G:1498:GLY:HA2	1:G:1501:VAL:HG12	2.03	0.41
1:G:2273:LEU:HD11	1:G:2334:PHE:HB2	2.03	0.41
1:G:2368:LEU:HD11	1:G:2376:LEU:HD12	2.02	0.41
1:G:2764:GLU:HA	1:G:2855:TYR:CE2	2.55	0.41
1:G:3062:PRO:HA	1:G:3065:VAL:HG22	2.02	0.41
1:G:3945:GLU:O	1:G:3949:ARG:HG3	2.19	0.41
1:G:4124:ASN:OD1	1:G:4125:PHE:N	2.53	0.41
1:G:4642:ALA:O	1:G:4646:LEU:HD23	2.21	0.41
1:G:4658:ILE:CD1	1:G:4792:LEU:HB3	2.50	0.41
1:J:363:ASP:HB3	1:J:366:ALA:HB3	2.02	0.41
1:J:1035:ASN:OD1	3:K:109:THR:OG1	2.37	0.41
1:J:1530:THR:HG23	1:J:1534:LYS:C	2.45	0.41
1:J:2273:LEU:HD11	1:J:2334:PHE:HB2	2.03	0.41
1:J:2464:ASP:HA	1:J:2467:VAL:HG12	2.03	0.41
1:J:2866:THR:O	1:J:2867:LEU:HB2	2.21	0.41
1:J:3962:PHE:O	1:J:3966:THR:HG23	2.20	0.41
1:J:4642:ALA:O	1:J:4646:LEU:HD23	2.21	0.41
2:D:62:GLY:HA3	2:D:74:LEU:HD21	2.03	0.41
1:B:119:SER:OG	1:B:120:CYS:N	2.54	0.41
1:B:3015:LEU:HD21	1:B:3025:LEU:HD12	2.03	0.41
1:B:3250:MET:HA	1:B:3253:ILE:HG22	2.02	0.41
1:E:100:THR:HG21	1:E:162:LYS:HD3	2.03	0.41
1:E:358:THR:HG21	1:E:382:GLY:HA2	2.02	0.41
1:E:664:PHE:CE1	1:E:746:CYS:HB2	2.56	0.41
1:E:3131:TYR:CE2	1:E:3136:LEU:HG	2.56	0.41
1:E:3785:ALA:HA	1:E:3787:LYS:HE2	2.03	0.41
1:E:4013:LEU:O	1:E:4017:LEU:HG	2.20	0.41
1:E:4060:LYS:HA	1:E:4063:ASP:OD2	2.21	0.41
1:E:4698:LYS:HG3	1:E:4699:GLY:N	2.36	0.41
1:G:113:HIS:NE2	1:G:402:ARG:HB3	2.35	0.41
1:G:880:GLU:O	1:G:884:LEU:HG	2.19	0.41
1:G:2230:THR:HG22	1:G:2234:ARG:HH11	1.85	0.41
1:G:3400:VAL:HG23	1:G:3403:ARG:HH21	1.84	0.41
1:G:3413:ILE:HD11	1:G:3512:ALA:HB2	2.03	0.41
1:G:3533:ILE:O	1:G:3537:LYS:HG3	2.20	0.41
1:G:3752:SER:HB2	1:G:3755:GLU:HG3	2.01	0.41
1:G:4698:LYS:HG3	1:G:4699:GLY:N	2.36	0.41
1:G:4904:PRO:HB3	1:G:4913:ARG:HD3	2.02	0.41
1:J:113:HIS:NE2	1:J:402:ARG:HB3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:358:THR:HG21	1:J:382:GLY:HA2	2.01	0.41
1:J:437:PRO:HB2	1:J:440:ALA:HB3	2.03	0.41
1:J:474:ARG:O	1:J:478:PHE:HD1	2.03	0.41
1:J:835:ARG:NH2	1:J:1203:ASN:HD22	2.09	0.41
1:J:880:GLU:HA	1:J:967:PRO:HB2	2.01	0.41
1:J:1288:PHE:HB2	1:J:1600:LEU:HB2	2.03	0.41
1:J:2950:SER:HA	1:J:2953:LYS:HB2	2.03	0.41
1:J:2958:GLY:O	1:J:2962:GLN:HG2	2.20	0.41
1:J:3062:PRO:HA	1:J:3065:VAL:HG22	2.02	0.41
1:J:3349:ALA:HB1	1:J:3353:LEU:HD12	2.02	0.41
1:J:3384:LYS:HG2	1:J:3386:GLU:N	2.36	0.41
1:J:4188:ARG:HD2	1:J:4191:GLU:HG3	2.02	0.41
1:B:2866:THR:O	1:B:2867:LEU:HB2	2.21	0.41
1:B:4060:LYS:HA	1:B:4063:ASP:OD2	2.21	0.41
1:E:1534:LYS:HE3	1:E:1534:LYS:HB2	1.95	0.41
1:E:1683:HIS:CG	1:E:1797:ARG:HH21	2.39	0.41
1:E:2001:PRO:O	1:E:2005:GLN:HG3	2.19	0.41
1:E:2368:LEU:HD11	1:E:2376:LEU:HD12	2.02	0.41
1:E:3038:MET:O	1:E:3042:LEU:HD23	2.20	0.41
1:E:3244:PRO:HB2	1:E:3248:ARG:HE	1.86	0.41
1:E:3413:ILE:HD11	1:E:3512:ALA:HB2	2.03	0.41
1:E:3533:ILE:O	1:E:3537:LYS:HG3	2.20	0.41
1:E:3923:LEU:HD11	1:E:3962:PHE:CZ	2.56	0.41
1:E:4642:ALA:O	1:E:4646:LEU:HD23	2.21	0.41
1:G:828:GLU:HG3	1:G:840:VAL:HG21	2.01	0.41
1:G:1123:VAL:HG13	1:G:1132:TRP:HB3	2.01	0.41
1:G:1128:ARG:HE	1:G:1130:GLN:NE2	2.17	0.41
1:G:1927:LEU:HD22	1:G:2101:MET:HG3	2.02	0.41
1:G:2866:THR:HG21	1:G:2872:GLN:NE2	2.36	0.41
1:G:3237:GLU:H	1:G:3237:GLU:CD	2.28	0.41
1:G:3244:PRO:HB2	1:G:3248:ARG:HE	1.86	0.41
1:G:3522:LEU:HA	1:G:3525:CYS:SG	2.61	0.41
1:G:3779:VAL:O	1:G:3783:ILE:HG13	2.21	0.41
1:G:4060:LYS:HA	1:G:4063:ASP:OD2	2.21	0.41
1:G:4243:PHE:HE2	1:G:4668:LEU:HA	1.86	0.41
1:J:16:THR:O	1:J:98:HIS:ND1	2.53	0.41
1:J:664:PHE:CE1	1:J:746:CYS:HB2	2.56	0.41
1:J:1247:PRO:HA	1:J:1598:GLN:HA	2.01	0.41
1:J:1932:PRO:O	1:J:1936:LYS:HG3	2.20	0.41
1:J:2598:ALA:O	1:J:2602:VAL:HG23	2.20	0.41
1:J:3413:ILE:HD11	1:J:3512:ALA:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4698:LYS:HG3	1:J:4699:GLY:N	2.36	0.41
2:A:62:GLY:HA3	2:A:74:LEU:HD21	2.03	0.41
3:C:100:VAL:HG22	3:C:105:ASN:HB2	2.02	0.41
1:B:659:TYR:CE2	1:B:661:LYS:HB2	2.56	0.41
1:B:984:LEU:HD23	1:B:987:ARG:HH21	1.85	0.41
1:B:1288:PHE:HB2	1:B:1600:LEU:HB2	2.03	0.41
1:B:1293:LEU:HD11	1:B:1594:ARG:HG2	2.03	0.41
1:B:2438:PRO:HB2	1:B:2443:ILE:HD11	2.03	0.41
1:B:2694:GLU:O	1:B:2697:ARG:HG3	2.20	0.41
1:B:2788:HIS:CD2	1:B:2789:PRO:HD2	2.55	0.41
1:B:3923:LEU:HD11	1:B:3962:PHE:CZ	2.56	0.41
1:B:4698:LYS:HG3	1:B:4699:GLY:N	2.36	0.41
1:B:4892:ARG:NH2	1:E:4918:ILE:HD13	2.35	0.41
1:E:437:PRO:HB2	1:E:440:ALA:HB3	2.02	0.41
1:E:1079:LYS:HE3	1:E:1107:PRO:HB3	2.03	0.41
1:E:1526:LEU:HD23	1:E:1526:LEU:H	1.84	0.41
1:E:2158:CYS:O	1:E:2162:ILE:HG13	2.20	0.41
1:E:2866:THR:O	1:E:2867:LEU:HB2	2.21	0.41
1:E:3015:LEU:HD21	1:E:3025:LEU:HD12	2.03	0.41
1:E:3432:GLU:O	1:E:3435:PHE:HB3	2.20	0.41
1:E:4664:LEU:HD22	1:E:4665:LYS:HD3	2.03	0.41
1:G:984:LEU:O	1:G:988:LEU:HG	2.21	0.41
1:G:1932:PRO:O	1:G:1936:LYS:HG3	2.20	0.41
1:G:2452:ARG:O	1:G:2456:ILE:HG13	2.20	0.41
1:G:2464:ASP:HA	1:G:2467:VAL:HG12	2.03	0.41
1:G:2814:LYS:HA	1:G:2817:ILE:HG12	2.03	0.41
1:G:2823:ILE:HA	1:G:2936:ALA:O	2.20	0.41
1:G:3604:TYR:O	1:G:3607:GLU:HG3	2.20	0.41
1:G:3891:LEU:O	1:G:3896:ASN:ND2	2.47	0.41
1:J:1037:ASP:OD1	1:J:1037:ASP:N	2.53	0.41
1:J:1683:HIS:CG	1:J:1797:ARG:HH21	2.39	0.41
1:J:2005:GLN:O	1:J:2009:LEU:HD23	2.21	0.41
1:J:2333:ASP:HA	1:J:2336:ARG:HG2	2.02	0.41
1:J:2515:GLN:O	1:J:2519:LEU:HG	2.21	0.41
1:J:2819:TRP:NE1	1:J:2881:ASN:OD1	2.42	0.41
1:J:3237:GLU:H	1:J:3237:GLU:CD	2.28	0.41
1:J:3391:GLU:HA	1:J:3394:VAL:HG22	2.03	0.41
1:J:3782:MET:HE2	1:J:3782:MET:HB3	1.96	0.41
1:J:3923:LEU:HD11	1:J:3962:PHE:CZ	2.56	0.41
1:J:4123:ILE:H	1:J:4123:ILE:HD12	1.85	0.41
1:J:4243:PHE:HE2	1:J:4668:LEU:HA	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4541:TRP:O	1:J:4544:LEU:HG	2.20	0.41
1:J:4960:ILE:HB	1:J:4983:HIS:HB3	2.03	0.41
3:K:100:VAL:HG22	3:K:105:ASN:HB2	2.03	0.41
1:B:77:ALA:HB2	1:G:3935:TRP:CZ2	2.56	0.41
1:B:468:LEU:O	1:B:472:ARG:HG2	2.20	0.41
1:B:667:MET:HB2	1:B:790:ARG:HB2	2.03	0.41
1:B:684:VAL:HG13	1:B:781:VAL:HG12	2.03	0.41
1:B:1042:ALA:O	1:B:1046:LEU:HG	2.21	0.41
1:B:1078:GLU:HA	1:B:1237:TRP:CD1	2.55	0.41
1:B:1099:GLU:O	1:B:1100:MET:HE2	2.20	0.41
1:B:1683:HIS:CG	1:B:1797:ARG:HH21	2.39	0.41
1:B:1737:PRO:HG2	1:B:1769:THR:HG22	2.03	0.41
1:B:1758:ARG:NH1	1:B:2037:ASP:HA	2.36	0.41
1:B:2115:GLU:H	1:B:2115:GLU:CD	2.29	0.41
1:B:2230:THR:O	1:B:2234:ARG:HG3	2.21	0.41
1:B:2273:LEU:HD11	1:B:2334:PHE:HB2	2.03	0.41
1:B:2368:LEU:HD11	1:B:2376:LEU:HD12	2.02	0.41
1:B:2819:TRP:NE1	1:B:2881:ASN:OD1	2.42	0.41
1:B:2866:THR:HG21	1:B:2872:GLN:NE2	2.36	0.41
1:B:3131:TYR:CE2	1:B:3136:LEU:HG	2.56	0.41
1:B:3391:GLU:HA	1:B:3394:VAL:HG22	2.03	0.41
1:B:3400:VAL:HG23	1:B:3403:ARG:HH21	1.84	0.41
1:B:3432:GLU:O	1:B:3435:PHE:HB3	2.20	0.41
1:B:3531:ASP:O	1:B:3535:LEU:HD23	2.20	0.41
1:B:3962:PHE:HZ	1:B:3992:PHE:CE2	2.39	0.41
1:B:3962:PHE:O	1:B:3966:THR:HG23	2.20	0.41
1:B:4664:LEU:HD22	1:B:4665:LYS:HD3	2.03	0.41
1:E:113:HIS:NE2	1:E:402:ARG:HB3	2.35	0.41
1:E:172:VAL:HG22	1:E:179:TYR:HA	2.03	0.41
1:E:445:LEU:HD21	1:E:522:LEU:HD23	2.03	0.41
1:E:514:SER:O	1:E:518:ILE:HG13	2.20	0.41
1:E:636:ASN:OD1	1:E:637:LEU:N	2.52	0.41
1:E:710:ASP:OD1	1:E:711:LEU:N	2.54	0.41
1:E:733:PRO:HG2	1:E:762:CYS:HB3	2.03	0.41
1:E:816:LEU:HB2	1:E:819:GLU:HB2	2.03	0.41
1:E:871:ARG:HD3	1:E:925:SER:HB2	2.02	0.41
1:E:1110:ARG:HH22	1:E:1601:MET:HE1	1.85	0.41
1:E:1288:PHE:HB2	1:E:1600:LEU:HB2	2.03	0.41
1:E:1737:PRO:HG2	1:E:1769:THR:HG22	2.03	0.41
1:E:1780:PRO:HD3	1:E:1801:ALA:H	1.86	0.41
1:E:2128:TYR:CB	1:E:3673:MET:HE1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2189:LYS:HA	1:E:2192:TYR:CZ	2.55	0.41
1:E:2230:THR:HG22	1:E:2234:ARG:HH11	1.85	0.41
1:E:2515:GLN:O	1:E:2519:LEU:HG	2.21	0.41
1:E:2558:VAL:O	1:E:2562:ILE:HG12	2.21	0.41
1:E:2598:ALA:O	1:E:2602:VAL:HG23	2.20	0.41
1:E:2694:GLU:O	1:E:2697:ARG:HG3	2.20	0.41
1:E:2866:THR:HG21	1:E:2872:GLN:NE2	2.36	0.41
1:E:2879:ALA:HA	1:E:2882:TYR:HD2	1.85	0.41
1:E:2950:SER:HA	1:E:2953:LYS:HB2	2.03	0.41
1:E:3191:GLY:HA2	1:E:3194:LEU:HG	2.03	0.41
1:E:3400:VAL:HG23	1:E:3403:ARG:HH21	1.84	0.41
1:E:3935:TRP:CZ2	1:J:77:ALA:HB2	2.56	0.41
1:E:4160:LEU:HA	1:E:4163:PHE:HD2	1.84	0.41
1:E:4802:GLY:HA2	1:E:4808:PHE:HB2	2.02	0.41
1:E:4998:LYS:HG3	1:E:5003:HIS:CE1	2.56	0.41
1:G:57:ASN:HA	1:G:308:HIS:CD2	2.56	0.41
1:G:514:SER:O	1:G:518:ILE:HG13	2.20	0.41
1:G:667:MET:HB2	1:G:790:ARG:HB2	2.03	0.41
1:G:1079:LYS:HE3	1:G:1107:PRO:HB3	2.03	0.41
1:G:1288:PHE:HB2	1:G:1600:LEU:HB2	2.03	0.41
1:G:2515:GLN:O	1:G:2519:LEU:HG	2.21	0.41
1:G:2716:ASP:OD1	1:G:2716:ASP:N	2.54	0.41
1:G:2760:GLU:HA	1:G:2802:LYS:NZ	2.35	0.41
1:G:2862:LEU:HD23	1:G:2864:GLY:H	1.85	0.41
1:G:2950:SER:HA	1:G:2953:LYS:HB2	2.03	0.41
1:G:2958:GLY:O	1:G:2962:GLN:HG2	2.19	0.41
1:G:3219:TYR:CZ	1:G:3239:MET:HE1	2.55	0.41
1:G:3670:GLU:OE1	1:G:3732:SER:HB3	2.20	0.41
1:G:4664:LEU:HD22	1:G:4665:LYS:HD3	2.03	0.41
1:G:4859:PHE:HE1	1:G:4909:TYR:HB3	1.85	0.41
1:G:4960:ILE:HB	1:G:4983:HIS:HB3	2.03	0.41
1:J:866:HIS:HB3	1:J:870:ILE:HG12	2.03	0.41
1:J:984:LEU:O	1:J:988:LEU:HG	2.21	0.41
1:J:1078:GLU:HA	1:J:1237:TRP:CD1	2.55	0.41
1:J:1079:LYS:HE3	1:J:1107:PRO:HB3	2.03	0.41
1:J:1478:ASP:OD1	1:J:1482:ASN:N	2.53	0.41
1:J:2636:PHE:O	1:J:2640:PRO:HD2	2.21	0.41
1:J:2866:THR:HG21	1:J:2872:GLN:NE2	2.36	0.41
1:J:3015:LEU:HD21	1:J:3025:LEU:HD12	2.03	0.41
1:J:3222:LYS:HD2	1:J:3226:GLU:CD	2.45	0.41
1:J:3250:MET:HA	1:J:3253:ILE:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:3450:ASN:HA	1:J:3453:ARG:HG2	2.02	0.41
1:J:4664:LEU:HD22	1:J:4665:LYS:HD3	2.03	0.41
2:D:30:LEU:N	2:D:34:LYS:O	2.50	0.41
3:K:4:LEU:HD22	3:K:118:GLY:HA3	2.01	0.41
3:M:4:LEU:HD22	3:M:118:GLY:HA3	2.01	0.41
1:B:14:LEU:HD21	1:B:165:VAL:HG12	2.03	0.41
1:B:541:SER:HA	1:B:574:VAL:HG12	2.02	0.41
1:B:1240:LYS:HE2	1:B:1240:LYS:HB3	1.93	0.41
1:B:1459:GLN:HE22	1:B:1469:VAL:HA	1.87	0.41
1:B:2295:LEU:HA	1:B:2298:VAL:HG12	2.03	0.41
1:B:3522:LEU:HA	1:B:3525:CYS:SG	2.61	0.41
1:B:3935:TRP:CZ2	1:E:77:ALA:HB2	2.56	0.41
1:E:659:TYR:CE2	1:E:661:LYS:HB2	2.56	0.41
1:E:1147:ASP:CG	1:E:1165:ASN:HD21	2.29	0.41
1:E:2788:HIS:CD2	1:E:2789:PRO:HD2	2.55	0.41
1:E:2814:LYS:HA	1:E:2817:ILE:HG12	2.03	0.41
1:E:3522:LEU:HA	1:E:3525:CYS:SG	2.61	0.41
1:G:219:VAL:HG12	1:G:261:ARG:HB2	2.03	0.41
1:G:221:ARG:NH2	1:G:255:HIS:O	2.49	0.41
1:G:467:LYS:HE3	1:G:467:LYS:HB3	1.87	0.41
1:G:2333:ASP:HA	1:G:2336:ARG:HG2	2.02	0.41
1:G:2636:PHE:O	1:G:2640:PRO:HD2	2.21	0.41
1:G:2788:HIS:CD2	1:G:2789:PRO:HD2	2.55	0.41
1:G:4998:LYS:HG3	1:G:5003:HIS:CE1	2.56	0.41
1:J:445:LEU:HD21	1:J:522:LEU:HD23	2.03	0.41
1:J:1718:ILE:HG13	1:J:1719:HIS:ND1	2.36	0.41
1:J:2230:THR:HG22	1:J:2234:ARG:HH11	1.85	0.41
1:J:2558:VAL:O	1:J:2562:ILE:HG12	2.21	0.41
1:J:2866:THR:OG1	1:J:2867:LEU:N	2.50	0.41
1:J:3172:ILE:HG21	1:J:3194:LEU:HD23	2.03	0.41
1:J:4026:MET:HE3	1:J:4026:MET:HB3	1.98	0.41
1:B:266:ARG:NH2	1:B:269:TRP:O	2.54	0.40
1:B:1079:LYS:HE3	1:B:1107:PRO:HB3	2.03	0.40
1:B:1110:ARG:HH22	1:B:1601:MET:HE1	1.85	0.40
1:B:1466:LEU:O	1:B:1469:VAL:HG22	2.21	0.40
1:B:1478:ASP:OD1	1:B:1482:ASN:N	2.53	0.40
1:B:2303:ALA:O	1:B:2307:LEU:HD23	2.22	0.40
1:B:2333:ASP:HA	1:B:2336:ARG:HG2	2.02	0.40
1:B:2620:GLN:HA	1:B:2623:LEU:HD12	2.04	0.40
1:B:3785:ALA:HA	1:B:3787:LYS:HE2	2.03	0.40
1:B:4642:ALA:O	1:B:4646:LEU:HD23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:266:ARG:NH2	1:E:269:TRP:O	2.54	0.40
1:E:1466:LEU:O	1:E:1469:VAL:HG22	2.21	0.40
1:E:1718:ILE:HG13	1:E:1719:HIS:ND1	2.36	0.40
1:E:2230:THR:O	1:E:2234:ARG:HG3	2.21	0.40
1:E:4243:PHE:HE2	1:E:4668:LEU:HA	1.86	0.40
1:E:4567:LEU:HD13	1:E:4815:ASP:HB3	2.03	0.40
1:G:535:ALA:O	1:G:539:LEU:HG	2.21	0.40
1:G:587:ILE:HD12	1:G:624:ASN:HB3	2.02	0.40
1:G:973:SER:HA	1:G:1044:ARG:NH2	2.28	0.40
1:G:2303:ALA:O	1:G:2307:LEU:HD23	2.22	0.40
1:G:2558:VAL:O	1:G:2562:ILE:HG12	2.21	0.40
1:G:2866:THR:O	1:G:2867:LEU:HB2	2.21	0.40
1:G:3015:LEU:HD21	1:G:3025:LEU:HD12	2.03	0.40
1:G:3131:TYR:CE2	1:G:3136:LEU:HG	2.56	0.40
1:G:3398:PHE:HA	1:G:3401:LEU:HG	2.03	0.40
1:G:3727:ASP:HB3	1:G:3731:LYS:HZ1	1.86	0.40
1:G:4040:ILE:O	1:G:4044:MET:HG2	2.22	0.40
1:J:535:ALA:O	1:J:539:LEU:HG	2.21	0.40
1:J:1293:LEU:HD11	1:J:1594:ARG:HG2	2.03	0.40
1:J:1293:LEU:HD21	1:J:1594:ARG:HD3	2.03	0.40
1:J:1658:ASP:OD1	1:J:1658:ASP:N	2.52	0.40
1:J:2694:GLU:O	1:J:2697:ARG:HG3	2.20	0.40
1:J:3521:GLY:HA2	1:J:3524:MET:HG2	2.02	0.40
1:J:3533:ILE:O	1:J:3537:LYS:HG3	2.20	0.40
2:D:23:VAL:HB	2:D:45:PRO:HB2	2.03	0.40
2:I:23:VAL:HB	2:I:45:PRO:HB2	2.03	0.40
1:B:871:ARG:HD3	1:B:925:SER:HB2	2.02	0.40
1:B:927:GLU:HA	1:B:930:LYS:HD2	2.02	0.40
1:B:1434:TYR:HA	1:B:1518:CYS:O	2.22	0.40
1:B:2247:GLN:NE2	1:B:2281:ILE:O	2.38	0.40
1:B:2464:ASP:HA	1:B:2467:VAL:HG12	2.03	0.40
1:B:2470:ILE:HB	1:B:2502:MET:CE	2.52	0.40
1:B:3222:LYS:HD2	1:B:3226:GLU:CD	2.45	0.40
1:B:3244:PRO:HB2	1:B:3248:ARG:HE	1.86	0.40
1:B:3540:TYR:HB3	1:B:3604:TYR:CD2	2.56	0.40
1:B:4661:TYR:OH	1:B:4788:SER:HB2	2.21	0.40
1:B:4960:ILE:HB	1:B:4983:HIS:HB3	2.03	0.40
1:E:595:ARG:HH12	1:E:1643:GLU:CD	2.27	0.40
1:E:2121:PHE:CZ	1:E:3701:LEU:HB2	2.56	0.40
1:E:3349:ALA:HB1	1:E:3353:LEU:HD12	2.02	0.40
1:E:4123:ILE:H	1:E:4123:ILE:HD12	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4182:GLU:OE1	1:E:4983:HIS:NE2	2.52	0.40
1:G:439:GLU:HG2	1:G:440:ALA:N	2.36	0.40
1:G:1110:ARG:HH22	1:G:1601:MET:HE1	1.85	0.40
1:G:1570:LYS:O	1:G:1572:ILE:HG13	2.22	0.40
1:G:1718:ILE:HG13	1:G:1719:HIS:ND1	2.36	0.40
1:G:1786:LEU:HD22	2:H:87:HIS:HD2	1.87	0.40
1:G:2438:PRO:HB2	1:G:2443:ILE:HD11	2.03	0.40
1:G:2470:ILE:HB	1:G:2502:MET:CE	2.52	0.40
1:G:2620:GLN:HA	1:G:2623:LEU:HD12	2.04	0.40
1:G:2694:GLU:O	1:G:2697:ARG:HG3	2.20	0.40
1:G:3384:LYS:HG2	1:G:3386:GLU:N	2.36	0.40
1:G:3517:MET:SD	1:G:3517:MET:N	2.93	0.40
1:G:4168:GLU:O	1:G:4172:GLU:HG2	2.22	0.40
1:J:871:ARG:HH11	1:J:922:LEU:HD22	1.86	0.40
1:J:1274:HIS:O	1:J:1559:GLN:NE2	2.53	0.40
1:J:1570:LYS:O	1:J:1572:ILE:HG13	2.21	0.40
1:J:2128:TYR:CB	1:J:3673:MET:HE1	2.50	0.40
1:J:2962:GLN:O	1:J:2966:TRP:HD1	2.05	0.40
1:J:3540:TYR:HB3	1:J:3604:TYR:CD2	2.56	0.40
1:J:4661:TYR:OH	1:J:4788:SER:HB2	2.21	0.40
3:C:85:LEU:HB3	3:C:125:VAL:HG13	2.03	0.40
3:M:85:LEU:HB3	3:M:125:VAL:HG13	2.03	0.40
1:B:172:VAL:HG22	1:B:179:TYR:HA	2.03	0.40
1:B:710:ASP:OD1	1:B:711:LEU:N	2.54	0.40
1:B:1119:GLU:HA	1:B:1133:HIS:CE1	2.56	0.40
1:B:2369:ARG:HD2	1:B:2369:ARG:HA	1.95	0.40
1:B:2759:ALA:HB1	1:B:2806:ARG:HA	2.02	0.40
1:B:3191:GLY:HA2	1:B:3194:LEU:HG	2.03	0.40
1:E:219:VAL:HG12	1:E:261:ARG:HB2	2.03	0.40
1:E:927:GLU:HA	1:E:930:LYS:HD2	2.02	0.40
1:E:1123:VAL:CG1	1:E:1132:TRP:HB3	2.52	0.40
1:E:1427:ILE:HD13	1:E:1427:ILE:HA	1.93	0.40
1:E:1434:TYR:HA	1:E:1518:CYS:O	2.22	0.40
1:E:1478:ASP:OD1	1:E:1482:ASN:N	2.52	0.40
1:E:1497:GLY:HA2	1:E:1500:PHE:HD2	1.86	0.40
1:E:1498:GLY:HA2	1:E:1501:VAL:HG12	2.03	0.40
1:E:2295:LEU:HA	1:E:2298:VAL:HG12	2.03	0.40
1:E:2738:ARG:H	1:E:2738:ARG:HD3	1.87	0.40
1:E:2759:ALA:HB1	1:E:2806:ARG:HA	2.02	0.40
1:E:2765:LYS:HA	1:E:2765:LYS:HD3	1.87	0.40
1:E:3540:TYR:HB3	1:E:3604:TYR:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:67:PHE:HE2	1:G:118:LEU:HB2	1.86	0.40
1:G:363:ASP:CG	1:G:366:ALA:H	2.29	0.40
1:G:659:TYR:CE2	1:G:661:LYS:HB2	2.56	0.40
1:G:927:GLU:HA	1:G:930:LYS:HD2	2.02	0.40
1:G:1101:ARG:HB3	1:G:1123:VAL:HG21	2.04	0.40
1:G:1293:LEU:HD11	1:G:1594:ARG:HG2	2.03	0.40
1:G:1466:LEU:O	1:G:1469:VAL:HG22	2.21	0.40
1:G:2121:PHE:CZ	1:G:3701:LEU:HB2	2.57	0.40
1:G:2230:THR:O	1:G:2234:ARG:HG3	2.21	0.40
1:G:3222:LYS:HD2	1:G:3226:GLU:CD	2.45	0.40
1:G:3391:GLU:HA	1:G:3394:VAL:HG22	2.03	0.40
1:G:3445:TRP:HD1	1:G:3451:PHE:CD2	2.40	0.40
1:G:3795:SER:OG	1:G:3799:LYS:NZ	2.52	0.40
1:G:4128:PHE:HA	1:G:4131:ARG:NE	2.36	0.40
1:G:4188:ARG:HD2	1:G:4191:GLU:HG3	2.02	0.40
1:G:4661:TYR:OH	1:G:4786:ASP:OD2	2.30	0.40
1:G:4691:GLN:HB2	1:G:4703:ARG:HH22	1.85	0.40
1:J:871:ARG:HD3	1:J:925:SER:HB2	2.03	0.40
1:J:1740:PRO:HA	1:J:1743:ARG:HG2	2.03	0.40
1:J:2189:LYS:HA	1:J:2192:TYR:CZ	2.55	0.40
1:J:2230:THR:O	1:J:2234:ARG:HG3	2.21	0.40
1:J:3400:VAL:HG23	1:J:3403:ARG:HH21	1.84	0.40
1:J:3445:TRP:HD1	1:J:3451:PHE:CD2	2.40	0.40
1:J:4168:GLU:O	1:J:4172:GLU:HG2	2.22	0.40
1:J:4867:GLU:OE1	1:J:4872:PRO:HD2	2.22	0.40
1:B:487:VAL:O	1:B:491:ILE:HG13	2.22	0.40
1:B:1123:VAL:CG1	1:B:1132:TRP:HB3	2.52	0.40
1:B:1147:ASP:CG	1:B:1165:ASN:HD21	2.29	0.40
1:B:2155:LEU:HD12	1:B:2188:ASN:HD22	1.87	0.40
1:B:2806:ARG:CG	1:B:2810:LYS:HZ3	2.32	0.40
1:B:2962:GLN:O	1:B:2966:TRP:HD1	2.05	0.40
1:B:3696:ASP:OD2	1:B:3773:ARG:NH2	2.54	0.40
1:B:4668:LEU:O	1:B:4672:LYS:HG3	2.21	0.40
1:B:4691:GLN:HB2	1:B:4703:ARG:HH22	1.85	0.40
1:B:4867:GLU:OE1	1:B:4872:PRO:HD2	2.22	0.40
1:E:535:ALA:O	1:E:539:LEU:HG	2.21	0.40
1:E:1440:PHE:HZ	1:E:1563:GLN:HB2	1.87	0.40
1:E:4128:PHE:HA	1:E:4131:ARG:NE	2.36	0.40
1:E:4661:TYR:OH	1:E:4788:SER:HB2	2.21	0.40
1:E:4937:ILE:HD11	1:J:4930:ALA:HB1	2.03	0.40
1:G:664:PHE:CE1	1:G:746:CYS:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1042:ALA:O	1:G:1046:LEU:HG	2.21	0.40
1:G:1830:VAL:HB	1:G:1837:GLN:HG3	2.02	0.40
1:G:2740:VAL:HG11	1:G:2815:ALA:HA	2.04	0.40
1:G:2948:THR:O	1:G:2953:LYS:HE3	2.22	0.40
1:G:3546:ASP:N	1:G:3546:ASP:OD1	2.55	0.40
1:G:4668:LEU:O	1:G:4672:LYS:HG3	2.21	0.40
1:J:34:LYS:C	1:J:35:LEU:HD12	2.47	0.40
1:J:595:ARG:HH12	1:J:1643:GLU:CD	2.27	0.40
1:J:733:PRO:HG2	1:J:762:CYS:HB3	2.03	0.40
1:J:1123:VAL:CG1	1:J:1132:TRP:HB3	2.52	0.40
1:J:1147:ASP:CG	1:J:1165:ASN:HD21	2.30	0.40
1:J:1440:PHE:HZ	1:J:1563:GLN:HB2	1.87	0.40
1:J:1808:ARG:NH1	1:J:1853:ILE:O	2.49	0.40
1:J:2470:ILE:HB	1:J:2502:MET:CE	2.52	0.40
1:J:2716:ASP:OD1	1:J:2716:ASP:N	2.54	0.40
1:J:2765:LYS:HD3	1:J:2765:LYS:HA	1.87	0.40
1:J:3398:PHE:HA	1:J:3401:LEU:HG	2.03	0.40
1:J:3785:ALA:HA	1:J:3787:LYS:HE2	2.03	0.40
1:J:4668:LEU:O	1:J:4672:LYS:HG3	2.21	0.40
2:H:8:SER:O	2:H:70:GLN:HG3	2.21	0.40
2:H:62:GLY:HA3	2:H:74:LEU:HD21	2.03	0.40
3:F:85:LEU:HB3	3:F:125:VAL:HG13	2.04	0.40
3:K:85:LEU:HB3	3:K:125:VAL:HG13	2.03	0.40
1:B:34:LYS:C	1:B:35:LEU:HD12	2.47	0.40
1:B:67:PHE:HE2	1:B:118:LEU:HB2	1.86	0.40
1:B:246:TYR:HD1	1:B:375:LYS:HA	1.85	0.40
1:B:363:ASP:HA	1:B:364:PRO:HD2	1.96	0.40
1:B:451:TYR:OH	1:B:474:ARG:HD2	2.22	0.40
1:B:816:LEU:HB2	1:B:819:GLU:HB2	2.03	0.40
1:B:1780:PRO:HD3	1:B:1801:ALA:H	1.86	0.40
1:B:2948:THR:O	1:B:2953:LYS:HE3	2.22	0.40
1:E:48:PHE:HD2	1:E:50:GLU:OE1	2.03	0.40
1:E:67:PHE:HE2	1:E:118:LEU:HB2	1.86	0.40
1:E:119:SER:OG	1:E:120:CYS:N	2.54	0.40
1:E:1042:ALA:O	1:E:1046:LEU:HG	2.21	0.40
1:E:1293:LEU:HD21	1:E:1594:ARG:HD3	2.03	0.40
1:E:1459:GLN:HE22	1:E:1469:VAL:HA	1.87	0.40
1:E:1944:GLU:HG3	1:E:2126:ARG:NH1	2.37	0.40
1:E:2716:ASP:OD1	1:E:2716:ASP:N	2.54	0.40
1:E:3172:ILE:HG21	1:E:3194:LEU:HD23	2.03	0.40
1:E:3962:PHE:HZ	1:E:3992:PHE:CE2	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:4960:ILE:HB	1:E:4983:HIS:HB3	2.03	0.40
1:G:100:THR:HG21	1:G:162:LYS:HD3	2.03	0.40
1:G:445:LEU:HD21	1:G:522:LEU:HD23	2.03	0.40
1:G:516:LYS:NZ	1:G:555:GLU:HG3	2.37	0.40
1:G:710:ASP:OD1	1:G:711:LEU:N	2.54	0.40
1:G:871:ARG:HH11	1:G:922:LEU:HD22	1.86	0.40
1:G:1658:ASP:OD1	1:G:1658:ASP:N	2.52	0.40
1:G:1758:ARG:NH1	1:G:2037:ASP:HA	2.36	0.40
1:G:1944:GLU:HG3	1:G:2126:ARG:NH1	2.37	0.40
1:G:2155:LEU:HD12	1:G:2188:ASN:HD22	1.87	0.40
1:G:2928:LYS:HA	1:G:2928:LYS:HD3	1.85	0.40
1:J:659:TYR:CE2	1:J:661:LYS:HB2	2.56	0.40
1:J:1042:ALA:O	1:J:1046:LEU:HG	2.21	0.40
1:J:1101:ARG:HB3	1:J:1123:VAL:HG21	2.04	0.40
1:J:1498:GLY:HA2	1:J:1501:VAL:HG12	2.03	0.40
1:J:2121:PHE:CZ	1:J:3701:LEU:HB2	2.56	0.40
1:J:2627:VAL:HG22	1:J:2678:LEU:HD13	2.04	0.40
1:J:2991:HIS:O	1:J:2995:ILE:HG13	2.22	0.40
1:J:3021:PRO:HD3	1:J:3036:LYS:NZ	2.34	0.40
1:J:3131:TYR:CE2	1:J:3136:LEU:HG	2.56	0.40
1:J:3779:VAL:O	1:J:3783:ILE:HG13	2.21	0.40
1:J:4040:ILE:O	1:J:4044:MET:HG2	2.22	0.40
1:J:4998:LYS:HG3	1:J:5003:HIS:CE1	2.56	0.40
2:I:48:PHE:CZ	2:I:55:VAL:HG12	2.57	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	B	4280/5027 (85%)	4178 (98%)	100 (2%)	2 (0%)	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	4280/5027 (85%)	4178 (98%)	100 (2%)	2 (0%)	100	100
1	G	4280/5027 (85%)	4178 (98%)	100 (2%)	2 (0%)	100	100
1	J	4280/5027 (85%)	4178 (98%)	100 (2%)	2 (0%)	100	100
2	A	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
2	D	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
2	H	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
2	I	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
3	C	124/137 (90%)	117 (94%)	7 (6%)	0	100	100
3	F	124/137 (90%)	117 (94%)	7 (6%)	0	100	100
3	K	124/137 (90%)	117 (94%)	7 (6%)	0	100	100
3	M	124/137 (90%)	117 (94%)	7 (6%)	0	100	100
All	All	18036/21084 (86%)	17584 (98%)	444 (2%)	8 (0%)	100	100

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	2867	LEU
1	E	2867	LEU
1	G	2867	LEU
1	J	2867	LEU
1	B	52	THR
1	E	52	THR
1	G	52	THR
1	J	52	THR

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	3659/4270 (86%)	3659 (100%)	0	100	100
1	E	3659/4270 (86%)	3659 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	G	3659/4270 (86%)	3659 (100%)	0	100	100
1	J	3659/4270 (86%)	3659 (100%)	0	100	100
2	A	88/88 (100%)	88 (100%)	0	100	100
2	D	88/88 (100%)	88 (100%)	0	100	100
2	H	88/88 (100%)	88 (100%)	0	100	100
2	I	88/88 (100%)	88 (100%)	0	100	100
3	C	104/114 (91%)	104 (100%)	0	100	100
3	F	104/114 (91%)	104 (100%)	0	100	100
3	K	104/114 (91%)	104 (100%)	0	100	100
3	M	104/114 (91%)	104 (100%)	0	100	100
All	All	15404/17888 (86%)	15404 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (166) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	71	GLN
1	B	405	HIS
1	B	647	ASN
1	B	797	HIS
1	B	879	HIS
1	B	1066	GLN
1	B	1127	HIS
1	B	1203	ASN
1	B	1206	GLN
1	B	1229	ASN
1	B	1296	GLN
1	B	1459	GLN
1	B	1586	ASN
1	B	1691	GLN
1	B	1776	HIS
1	B	2035	HIS
1	B	2268	GLN
1	B	2308	GLN
1	B	2414	ASN
1	B	2772	GLN
1	B	2892	GLN

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Mol	Chain	Res	Type
1	B	2961	GLN
1	B	3008	GLN
1	B	3013	HIS
1	B	3033	ASN
1	B	3146	HIS
1	B	3162	GLN
1	B	3611	HIS
1	B	3833	GLN
1	B	3882	GLN
1	B	3889	GLN
1	B	3927	GLN
1	B	4043	GLN
1	B	4714	ASN
1	B	4753	HIS
1	B	5003	HIS
1	E	405	HIS
1	E	797	HIS
1	E	879	HIS
1	E	1066	GLN
1	E	1127	HIS
1	E	1203	ASN
1	E	1206	GLN
1	E	1229	ASN
1	E	1296	GLN
1	E	1459	GLN
1	E	1541	GLN
1	E	1586	ASN
1	E	1691	GLN
1	E	1776	HIS
1	E	2035	HIS
1	E	2268	GLN
1	E	2414	ASN
1	E	2772	GLN
1	E	2892	GLN
1	E	3008	GLN
1	E	3013	HIS
1	E	3033	ASN
1	E	3146	HIS
1	E	3162	GLN
1	E	3611	HIS
1	E	3833	GLN
1	E	3882	GLN

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Mol	Chain	Res	Type
1	E	3889	GLN
1	E	3897	ASN
1	E	3927	GLN
1	E	4043	GLN
1	E	4714	ASN
1	E	5003	HIS
1	G	405	HIS
1	G	647	ASN
1	G	797	HIS
1	G	879	HIS
1	G	1066	GLN
1	G	1127	HIS
1	G	1130	GLN
1	G	1203	ASN
1	G	1206	GLN
1	G	1229	ASN
1	G	1296	GLN
1	G	1459	GLN
1	G	1691	GLN
1	G	1776	HIS
1	G	1970	GLN
1	G	2035	HIS
1	G	2268	GLN
1	G	2414	ASN
1	G	2772	GLN
1	G	2892	GLN
1	G	3008	GLN
1	G	3013	HIS
1	G	3033	ASN
1	G	3146	HIS
1	G	3162	GLN
1	G	3611	HIS
1	G	3833	GLN
1	G	3882	GLN
1	G	3889	GLN
1	G	3927	GLN
1	G	4043	GLN
1	G	4714	ASN
1	G	4753	HIS
1	G	4886	HIS
1	J	405	HIS
1	J	647	ASN

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Mol	Chain	Res	Type
1	J	797	HIS
1	J	879	HIS
1	J	1066	GLN
1	J	1127	HIS
1	J	1203	ASN
1	J	1206	GLN
1	J	1229	ASN
1	J	1296	GLN
1	J	1459	GLN
1	J	1541	GLN
1	J	1691	GLN
1	J	1776	HIS
1	J	2035	HIS
1	J	2268	GLN
1	J	2308	GLN
1	J	2414	ASN
1	J	2772	GLN
1	J	2892	GLN
1	J	3008	GLN
1	J	3013	HIS
1	J	3033	ASN
1	J	3146	HIS
1	J	3162	GLN
1	J	3611	HIS
1	J	3833	GLN
1	J	3882	GLN
1	J	3889	GLN
1	J	3927	GLN
1	J	4043	GLN
1	J	4714	ASN
1	J	5003	HIS
2	A	65	GLN
2	A	87	HIS
2	D	65	GLN
2	D	87	HIS
2	H	65	GLN
2	H	87	HIS
2	I	65	GLN
2	I	87	HIS
3	C	1	GLN
3	C	3	GLN
3	C	81	GLN

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Mol	Chain	Res	Type
3	C	105	ASN
3	C	111	ASN
3	C	119	GLN
3	C	122	GLN
3	F	1	GLN
3	F	3	GLN
3	F	81	GLN
3	F	105	ASN
3	F	111	ASN
3	F	119	GLN
3	F	122	GLN
3	K	1	GLN
3	K	3	GLN
3	K	81	GLN
3	K	119	GLN
3	K	122	GLN
3	M	1	GLN
3	M	81	GLN
3	M	122	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 16 ligands modelled in this entry, 8 are monoatomic - leaving 8 for Mogul analysis.

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	$\# Z > 2$
6	CFF	B	5103	-	15,15,15	0.50	0	23,23,23	0.71	1 (4%)
5	ATP	B	5102	-	32,33,33	0.27	0	48,52,52	0.31	0
6	CFF	J	5103	-	15,15,15	0.51	0	23,23,23	0.72	1 (4%)
6	CFF	G	5103	-	15,15,15	1.67	4 (26%)	23,23,23	1.76	5 (21%)
5	ATP	J	5102	-	32,33,33	0.27	0	48,52,52	0.31	0
5	ATP	G	5102	-	32,33,33	0.26	0	48,52,52	0.31	0
5	ATP	E	5102	-	32,33,33	0.26	0	48,52,52	0.31	0
6	CFF	E	5103	-	15,15,15	0.50	0	23,23,23	0.72	1 (4%)

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
6	CFF	B	5103	-	-	-	0/2/2/2
5	ATP	B	5102	-	-	5/22/38/38	0/3/3/3
6	CFF	J	5103	-	-	-	0/2/2/2
6	CFF	G	5103	-	-	-	0/2/2/2
5	ATP	J	5102	-	-	5/22/38/38	0/3/3/3
5	ATP	G	5102	-	-	5/22/38/38	0/3/3/3
5	ATP	E	5102	-	-	5/22/38/38	0/3/3/3
6	CFF	E	5103	-	-	-	0/2/2/2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	G	5103	CFF	C5-N7	-2.91	1.33	1.38
6	G	5103	CFF	C4-N3	-2.80	1.33	1.38
6	G	5103	CFF	C5-C4	2.69	1.45	1.37
6	G	5103	CFF	C5-C6	2.08	1.48	1.43

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	5103	CFF	N3-C2-N1	4.23	122.42	117.14
6	G	5103	CFF	C6-N1-C2	-2.91	120.92	125.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	5103	CFF	N3-C4-N9	2.84	130.74	126.27
6	G	5103	CFF	C5-C4-N9	-2.45	107.24	112.10
6	J	5103	CFF	C12-N3-C2	2.29	121.31	117.33
6	E	5103	CFF	C12-N3-C2	2.27	121.29	117.33
6	B	5103	CFF	C12-N3-C2	2.26	121.27	117.33
6	G	5103	CFF	C6-C5-C4	-2.12	120.25	122.92

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	5102	ATP	PB-O3B-PG-O2G
5	B	5102	ATP	PB-O3B-PG-O3G
5	B	5102	ATP	C5'-O5'-PA-O1A
5	B	5102	ATP	C5'-O5'-PA-O2A
5	B	5102	ATP	C5'-O5'-PA-O3A
5	E	5102	ATP	PB-O3B-PG-O2G
5	E	5102	ATP	PB-O3B-PG-O3G
5	E	5102	ATP	C5'-O5'-PA-O1A
5	E	5102	ATP	C5'-O5'-PA-O2A
5	E	5102	ATP	C5'-O5'-PA-O3A
5	G	5102	ATP	PB-O3B-PG-O2G
5	G	5102	ATP	PB-O3B-PG-O3G
5	G	5102	ATP	C5'-O5'-PA-O1A
5	G	5102	ATP	C5'-O5'-PA-O2A
5	G	5102	ATP	C5'-O5'-PA-O3A
5	J	5102	ATP	PB-O3B-PG-O2G
5	J	5102	ATP	PB-O3B-PG-O3G
5	J	5102	ATP	C5'-O5'-PA-O1A
5	J	5102	ATP	C5'-O5'-PA-O2A
5	J	5102	ATP	C5'-O5'-PA-O3A

There are no ring outliers.

8 monomers are involved in 11 short contacts:

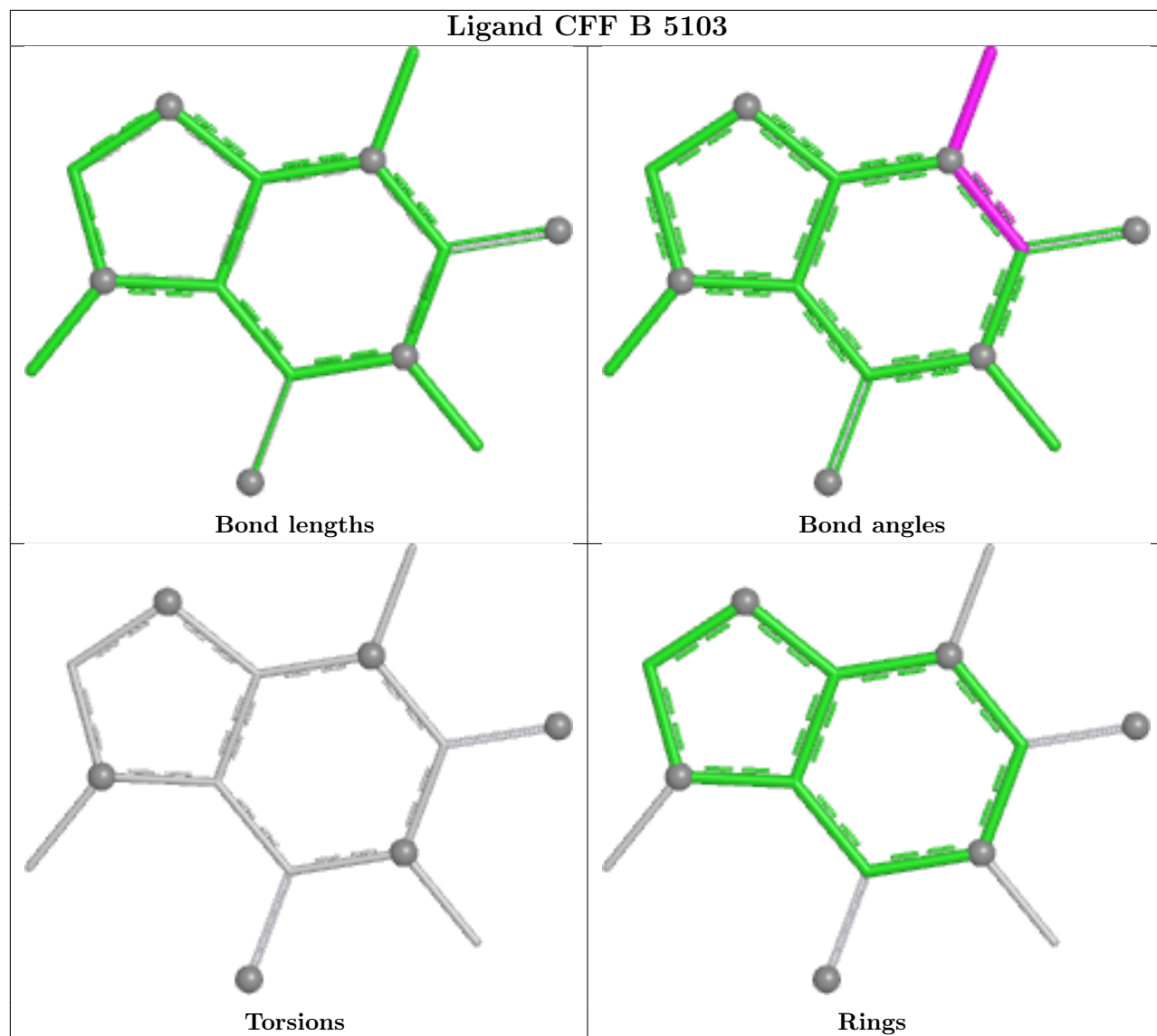
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	B	5103	CFF	1	0
5	B	5102	ATP	1	0
6	J	5103	CFF	1	0
6	G	5103	CFF	4	0
5	J	5102	ATP	1	0

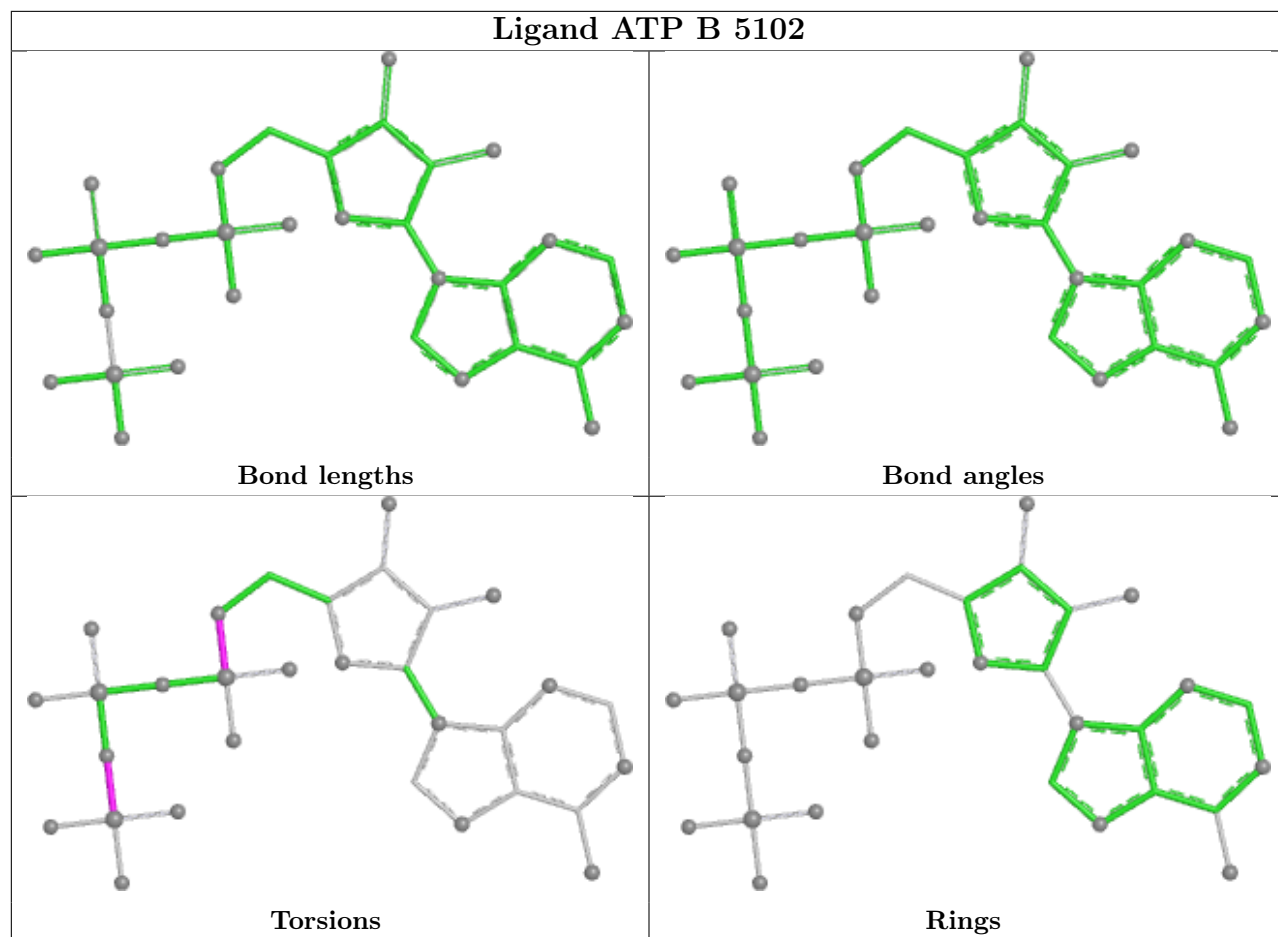
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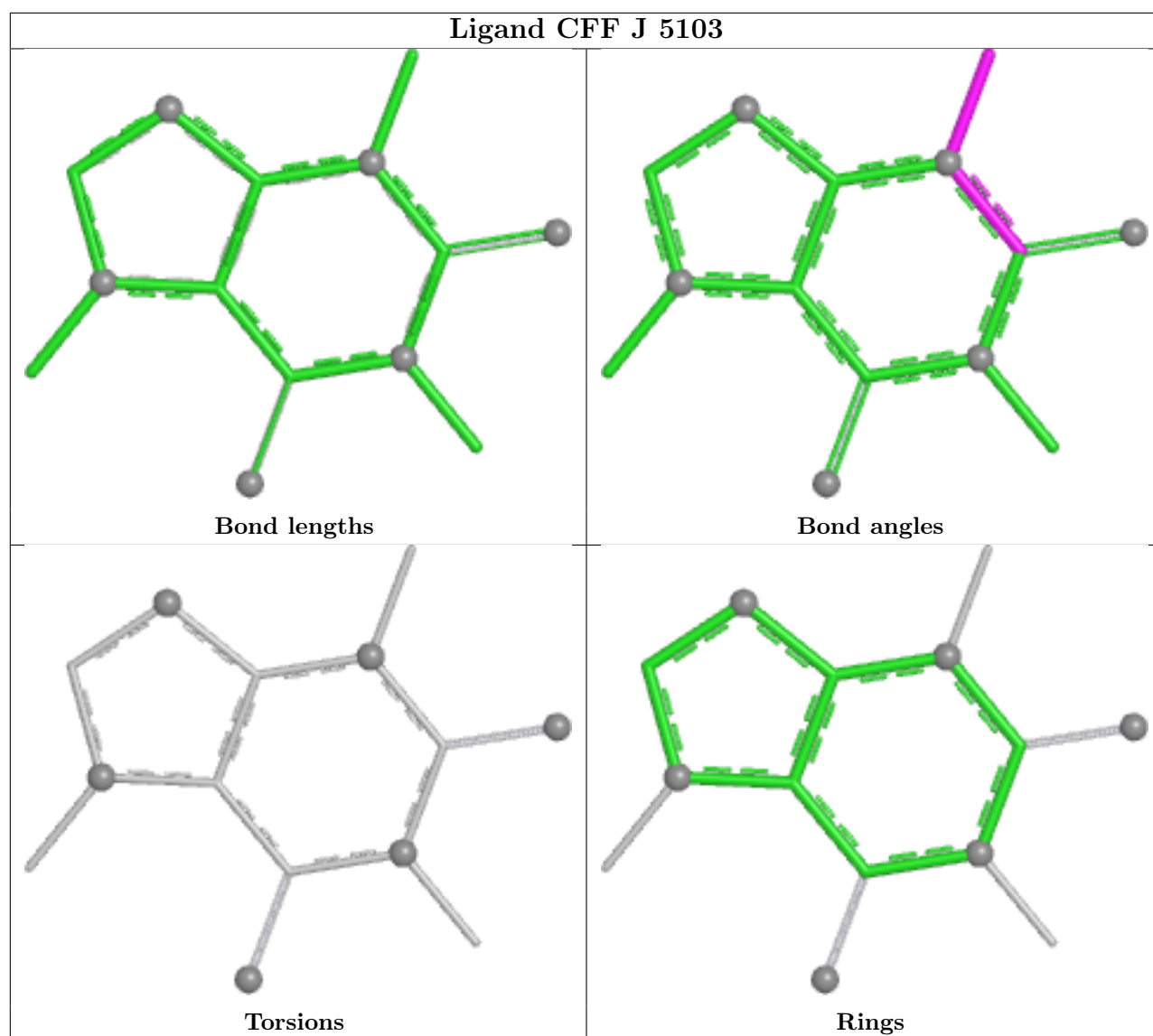
Continued from previous page...

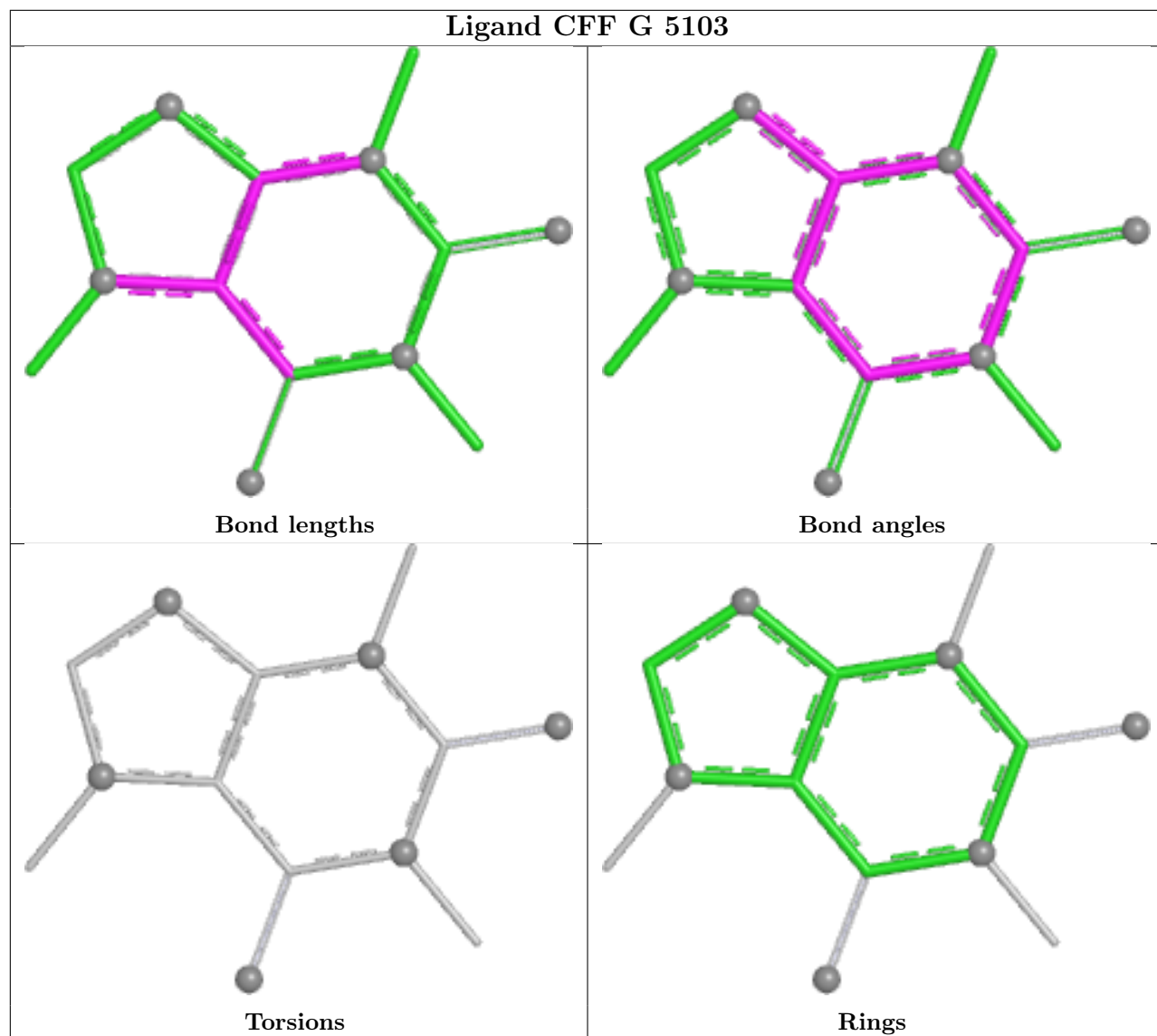
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	G	5102	ATP	1	0
5	E	5102	ATP	1	0
6	E	5103	CFF	1	0

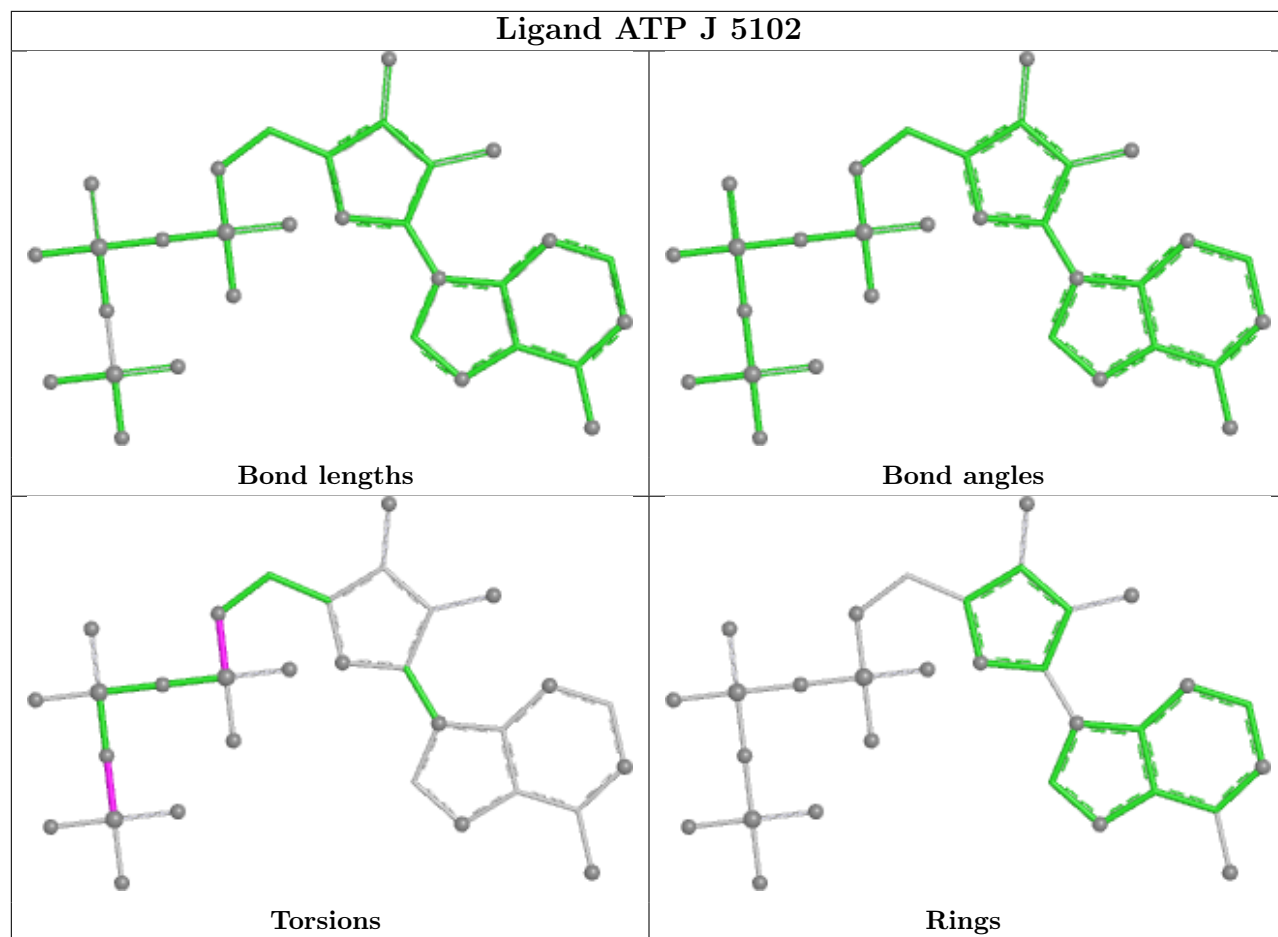
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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.

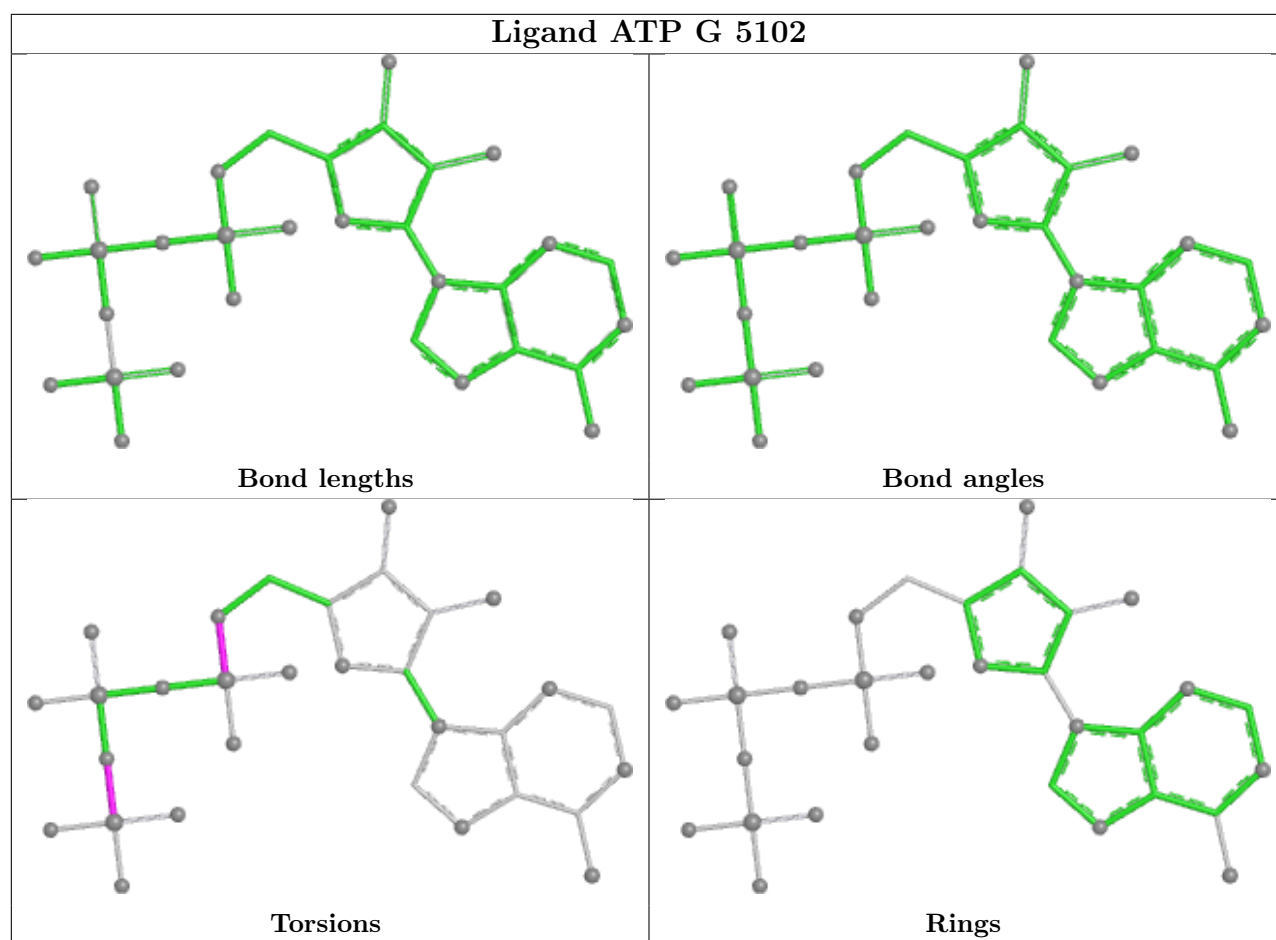


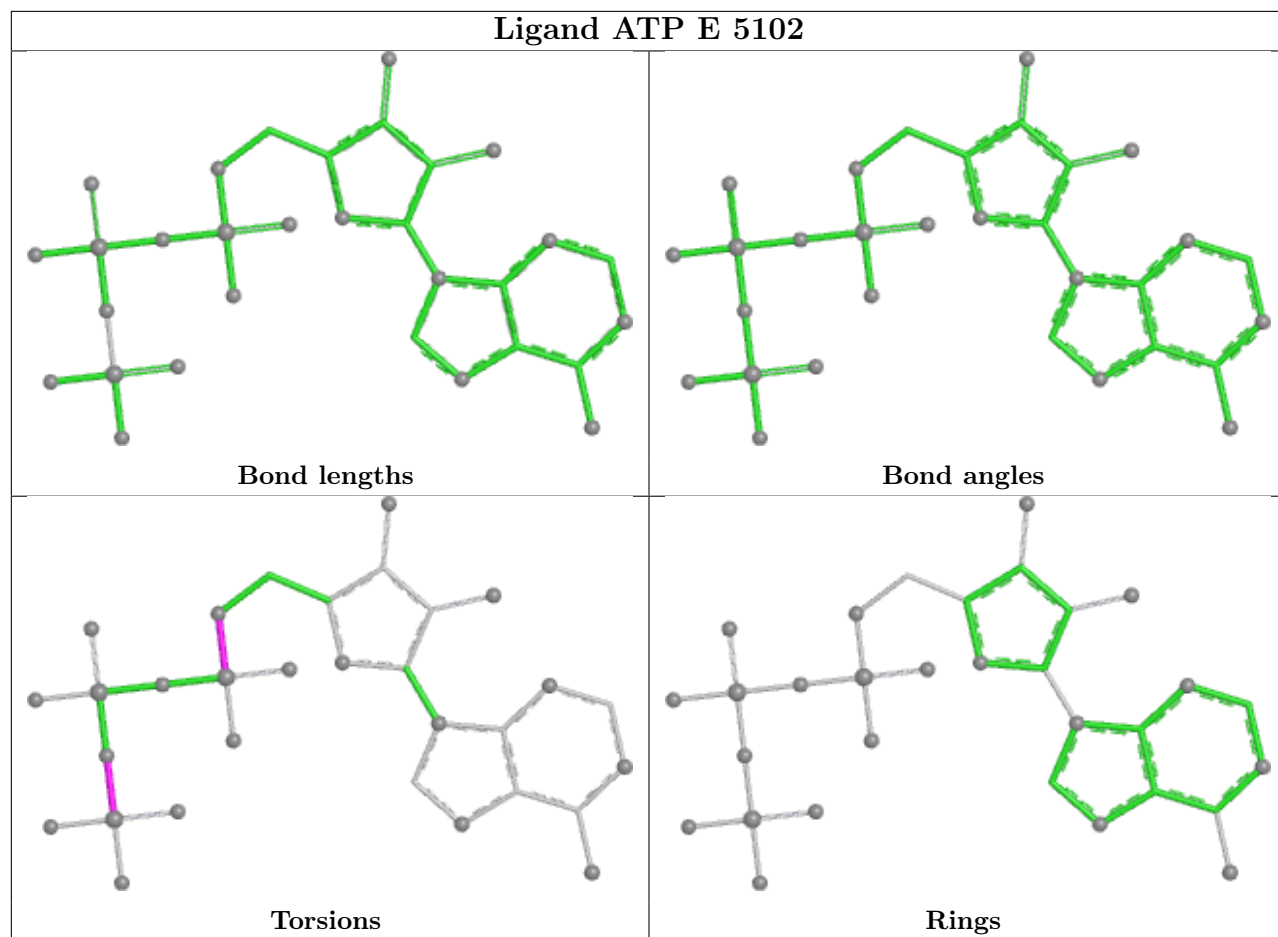


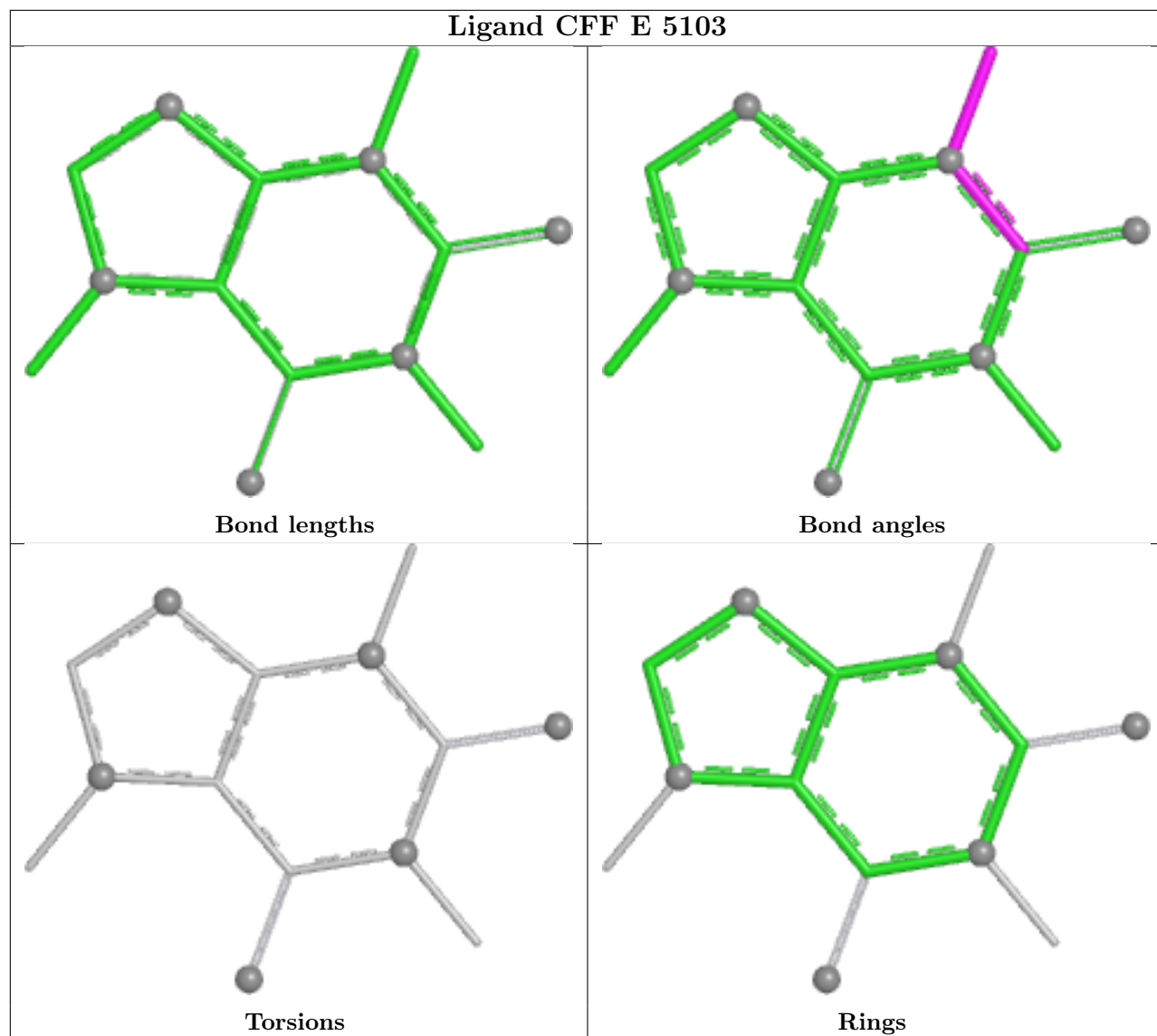












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

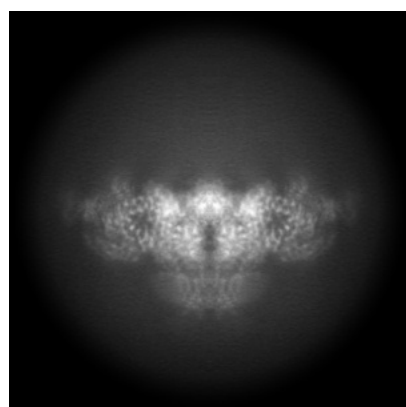
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-19467. These allow visual inspection of the internal detail of the map and identification of artifacts.

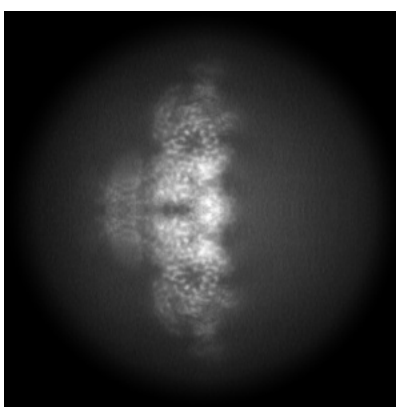
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

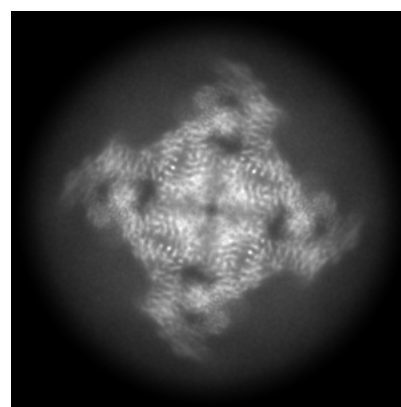
6.1.1 Primary map



X



Y

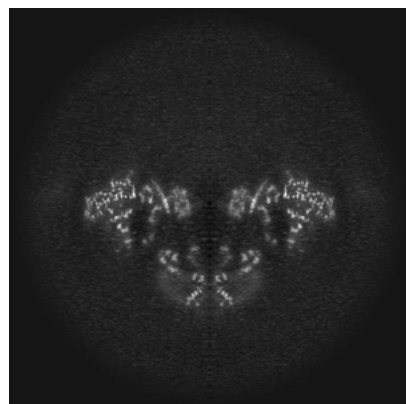


Z

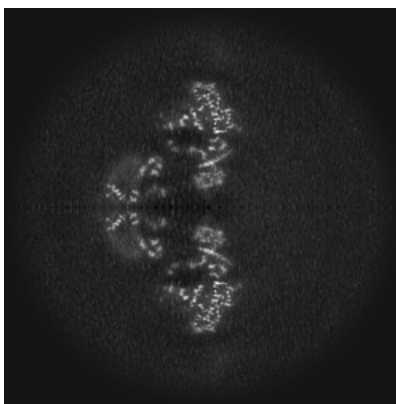
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

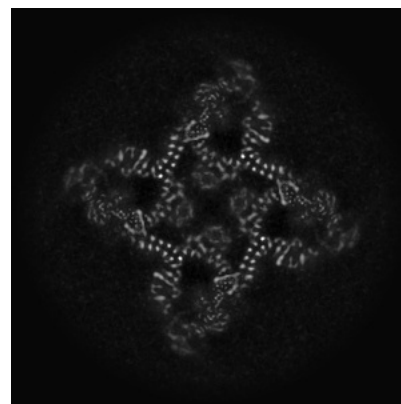
6.2.1 Primary map



X Index: 168



Y Index: 168

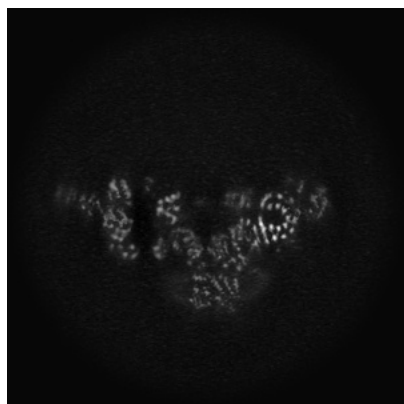


Z Index: 168

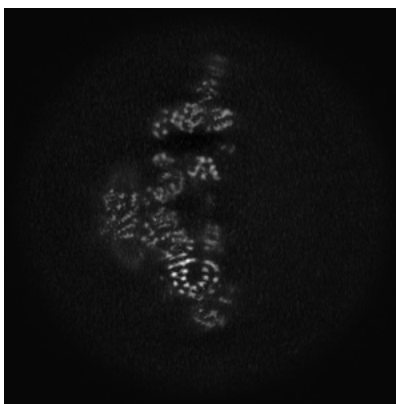
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

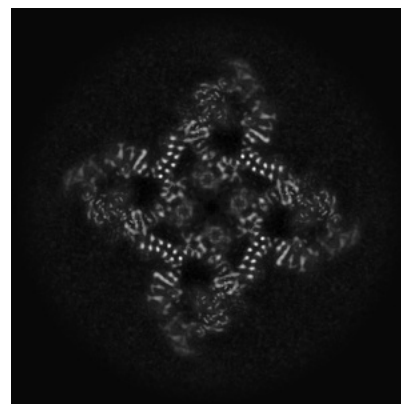
6.3.1 Primary map



X Index: 157



Y Index: 157

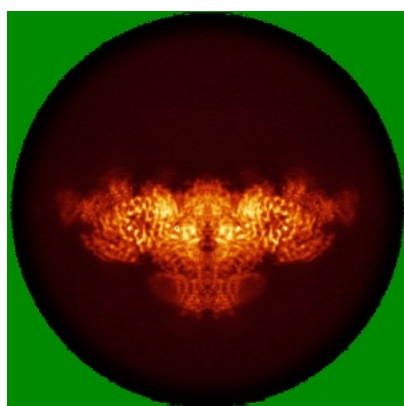


Z Index: 167

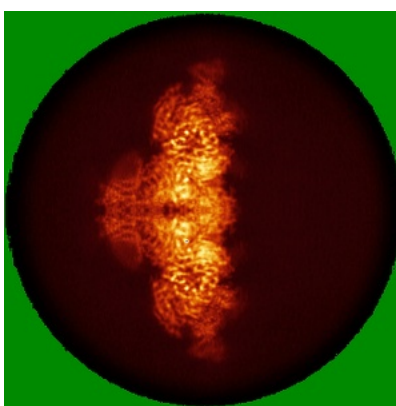
The images above show the largest variance slices of the map in three orthogonal directions.

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

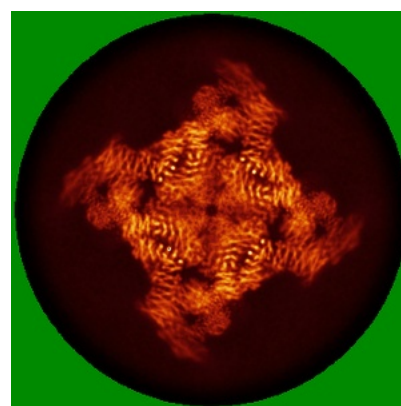
6.4.1 Primary map



X



Y

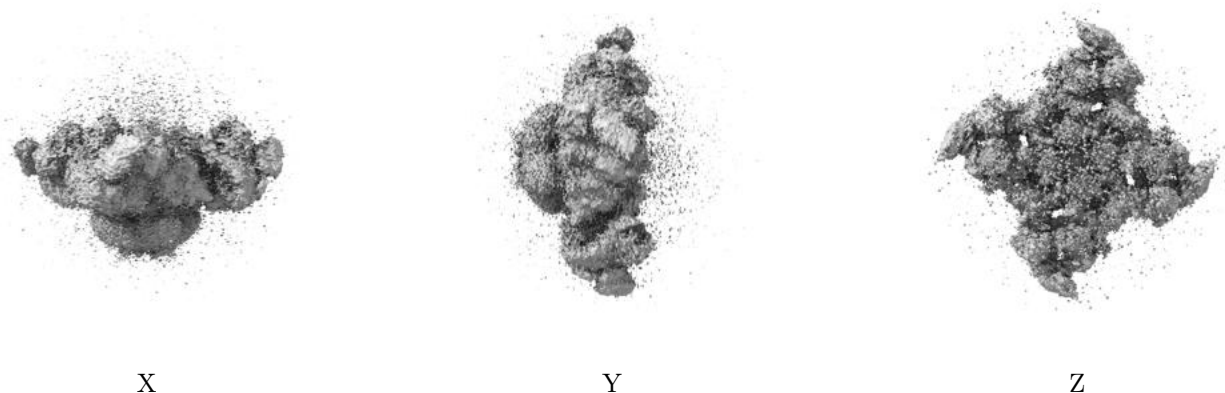


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.28. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

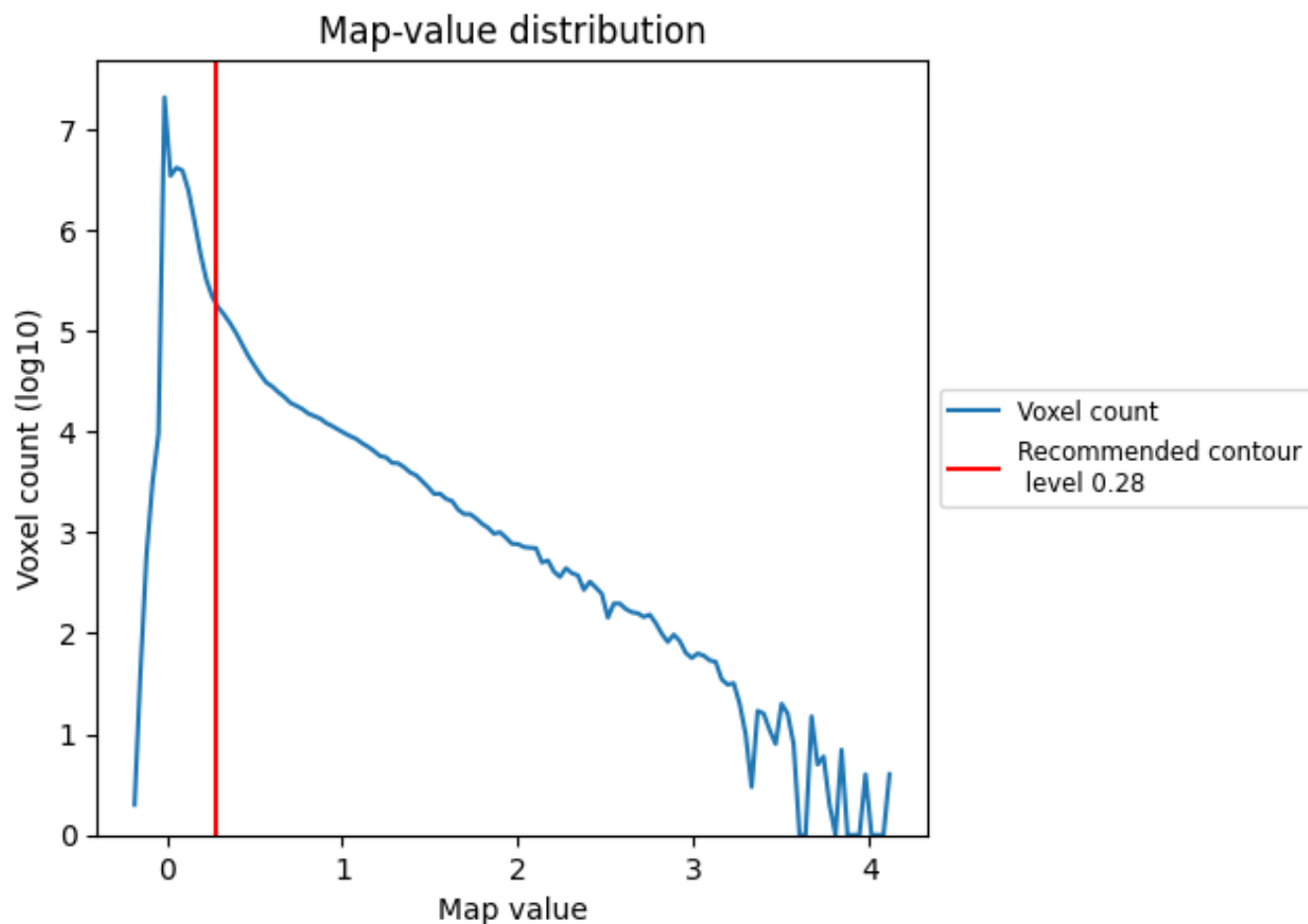
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

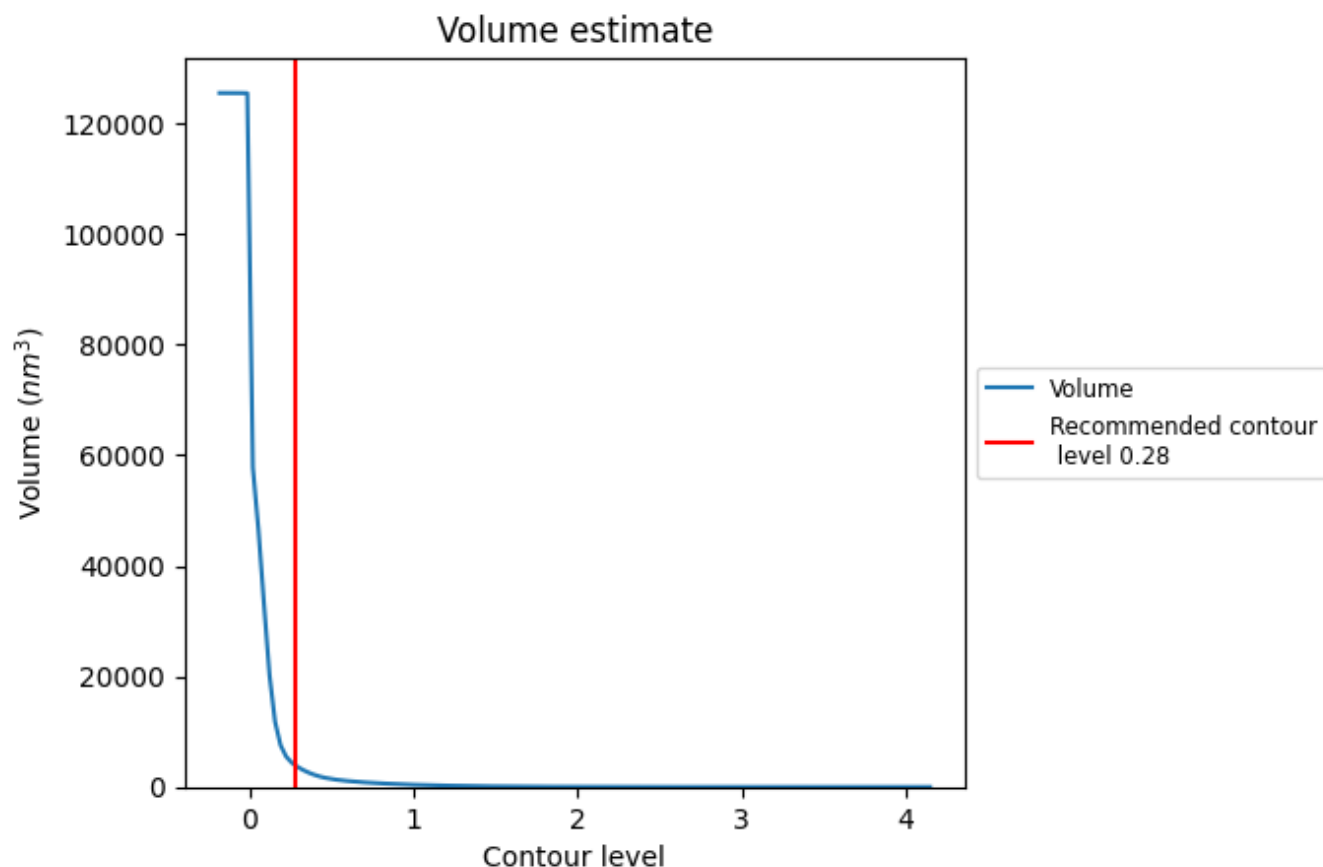
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

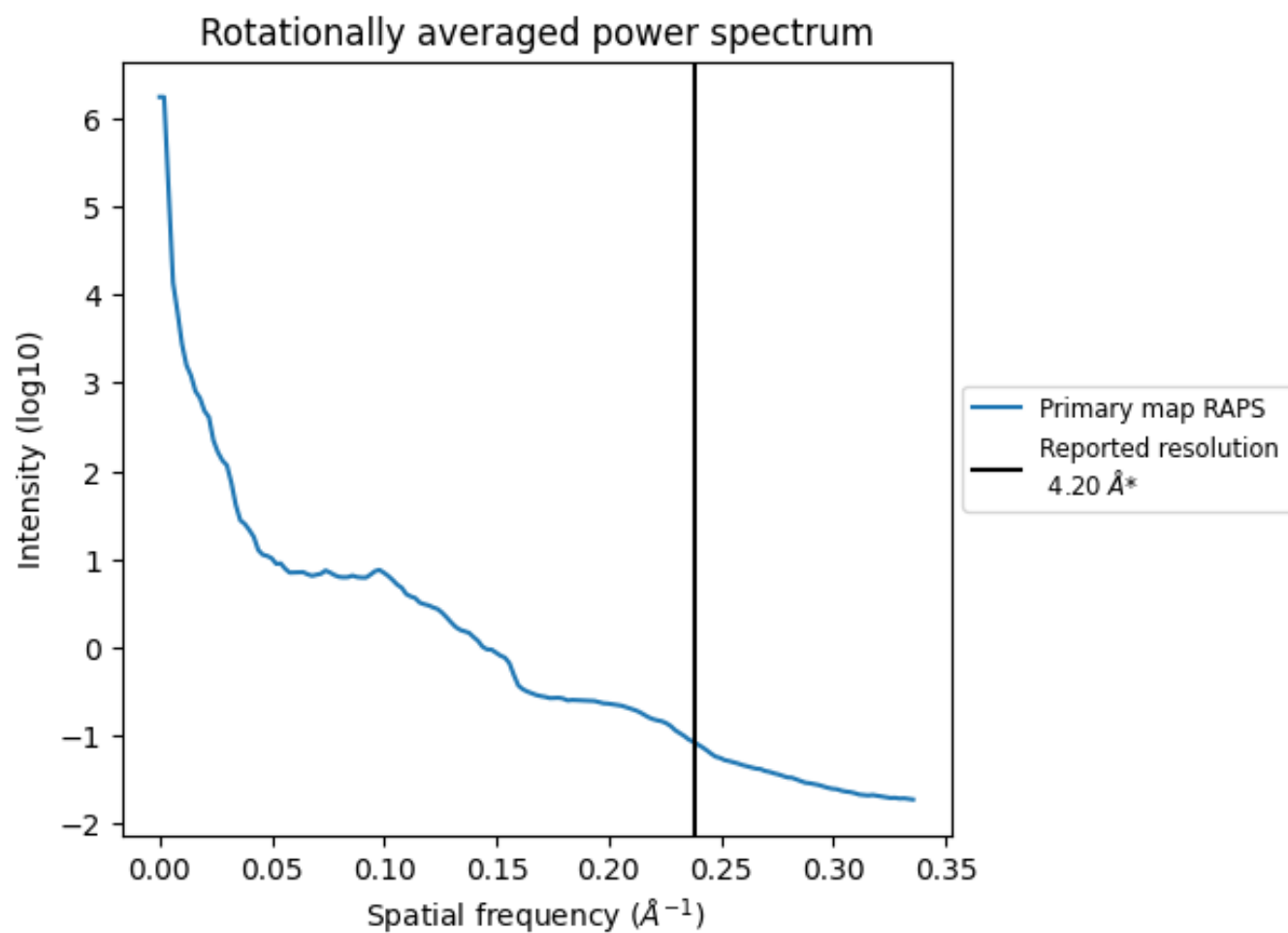
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3900 nm^3 ; this corresponds to an approximate mass of 3523 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

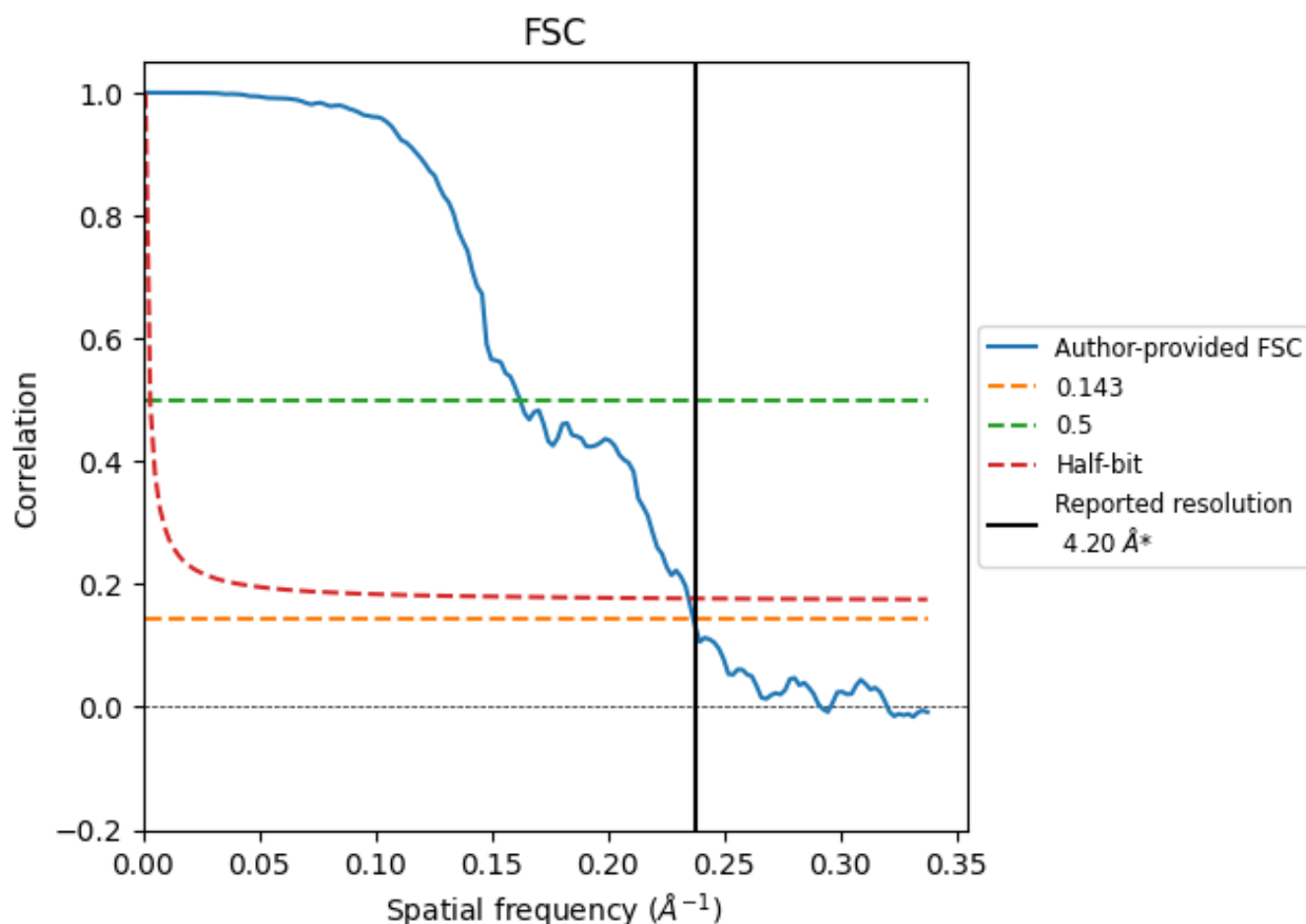


*Reported resolution corresponds to spatial frequency of 0.238 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.238 Å⁻¹

8.2 Resolution estimates [i](#)

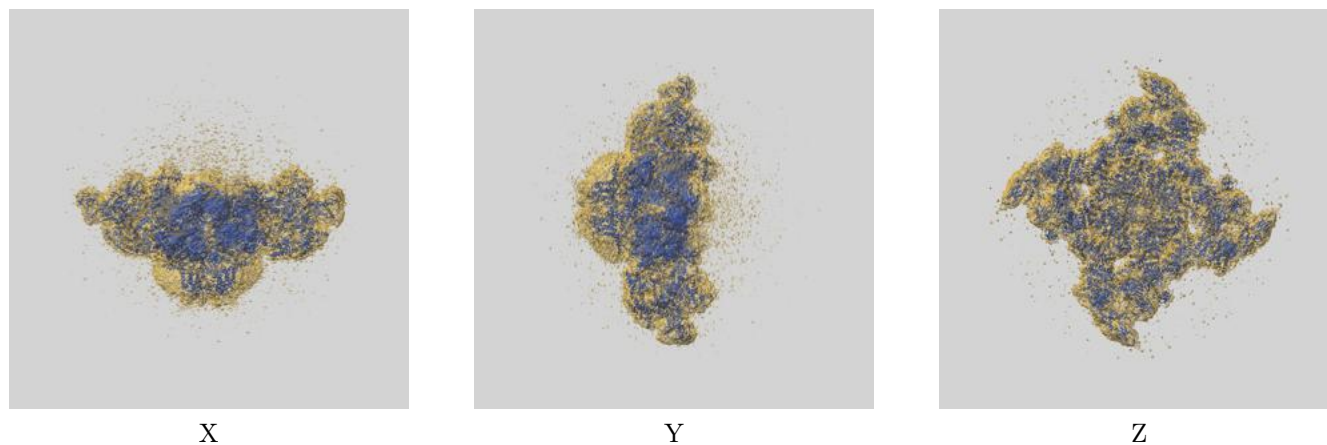
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.20	-	-
Author-provided FSC curve	4.22	6.17	4.26
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

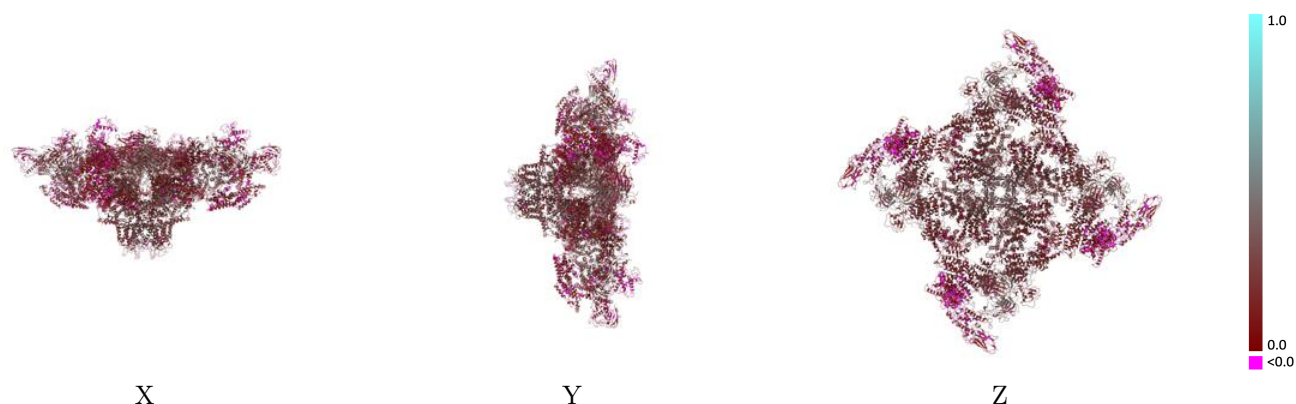
This section contains information regarding the fit between EMDB map EMD-19467 and PDB model 8RRW. Per-residue inclusion information can be found in section [3](#) on page [8](#).

9.1 Map-model overlay [i](#)



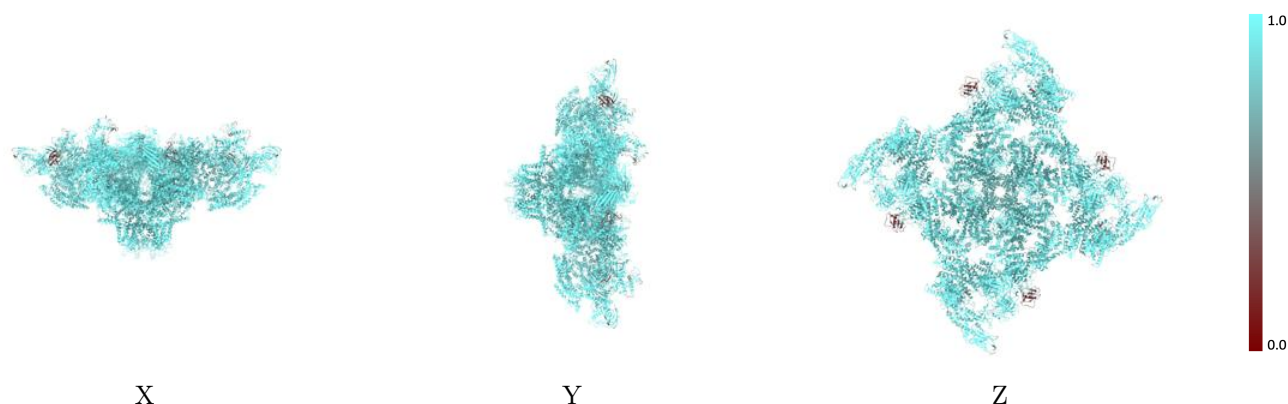
The images above show the 3D surface view of the map at the recommended contour level 0.28 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



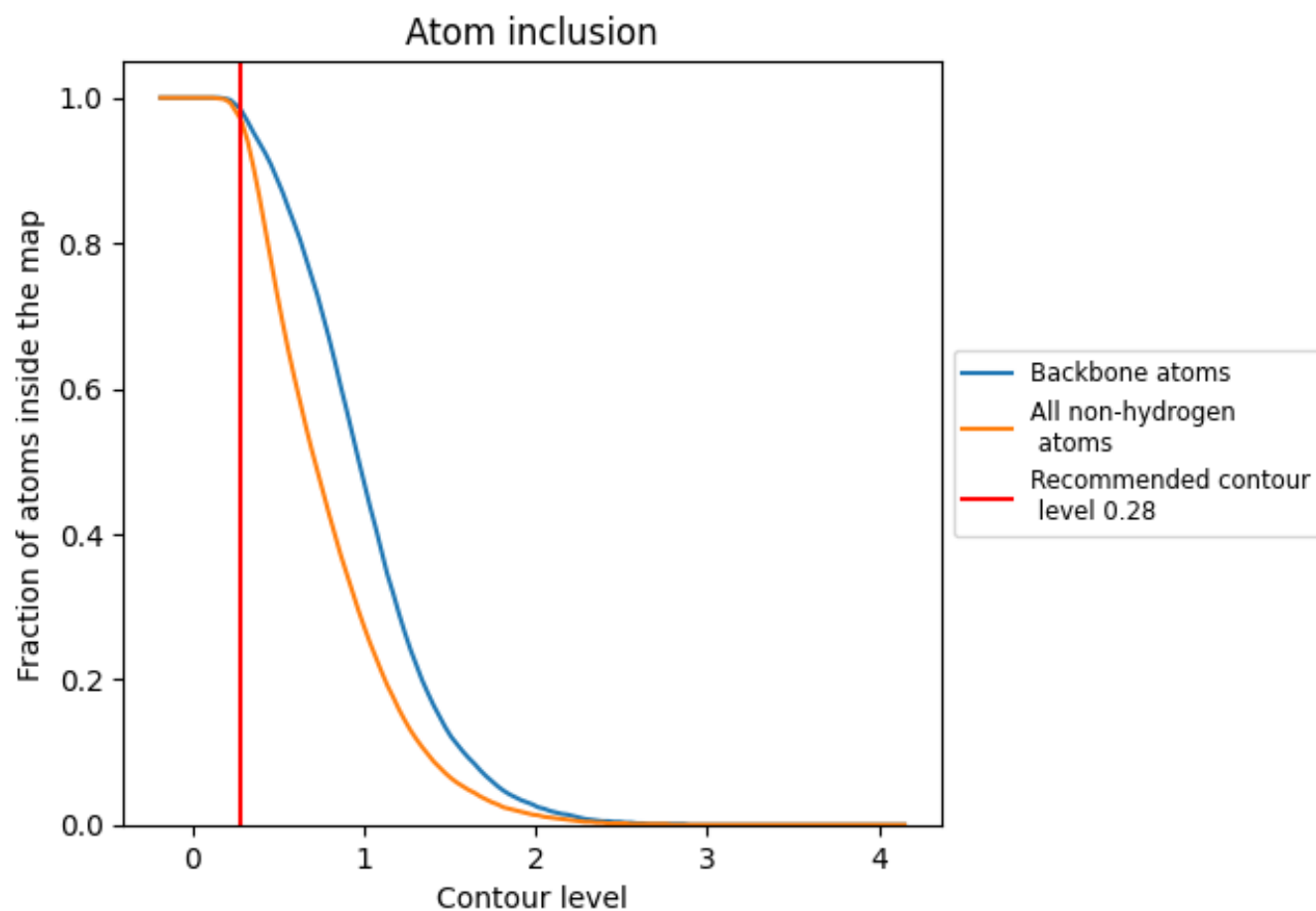
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.28).

9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 97% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.28) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9720	0.2010
A	0.5280	0.2090
B	0.9840	0.2030
C	0.9250	0.1360
D	0.5240	0.2080
E	0.9840	0.2030
F	0.9240	0.1370
G	0.9840	0.2030
H	0.5320	0.2130
I	0.5300	0.2090
J	0.9840	0.2030
K	0.9250	0.1380
M	0.9250	0.1360

1.0

0.0

<0.0