



## Full wwPDB EM Validation Report ⓘ

Nov 3, 2024 – 08:48 pm GMT

PDB ID : 8RRU  
EMDB ID : EMD-19465  
Title : Structure of RyR1 reconstituted into lipid liposomes in primed state in complex with FKBP and Nb9657.  
Authors : Li, C.; Efremov, R.G.  
Deposited on : 2024-01-23  
Resolution : 4.70 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](mailto: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>.

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

EMDB validation analysis : 0.0.1.dev113  
Mogul : 1.8.4, CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

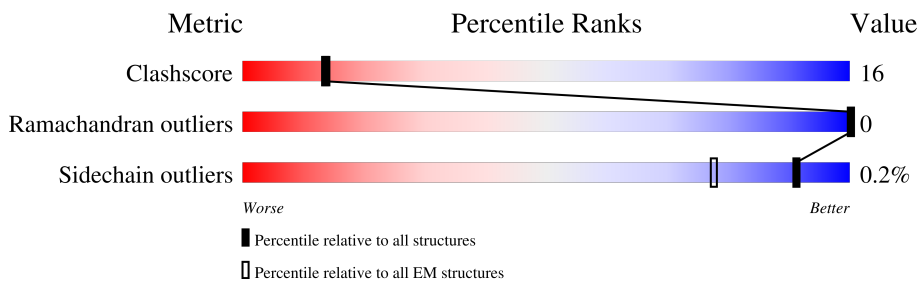
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 4.70 Å.

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







Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion  $< 40\%$ ). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	107	
1	D	107	
1	H	107	
1	I	107	
2	B	5027	
2	E	5027	
2	G	5027	
2	J	5027	

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Mol	Chain	Length	Quality of chain
3	C	137	 48% 43% 8%
3	F	137	 46% 45% 8%
3	K	137	 47% 44% 8%
3	M	137	 47% 44% 8%

## 2 Entry composition i

There are 7 unique types of molecules in this entry. The entry contains 143907 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 Peptidyl-prolyl cis-trans isomerase FKBP1B.

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

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 2 is a protein called Ryanodine receptor 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	4319	34143	21748	5888	6283	224	1	0
2	E	4319	34143	21748	5888	6283	224	1	0
2	G	4319	34150	21752	5888	6285	225	1	0
2	J	4319	34143	21748	5888	6283	224	1	0

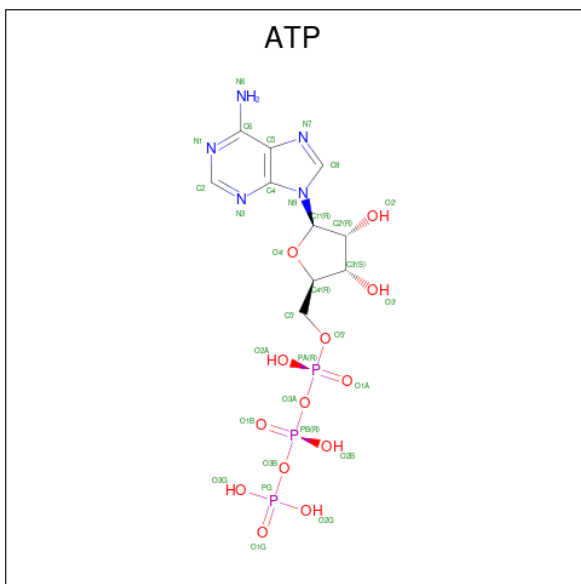
- Molecule 3 is a protein called Nanobody 9657.

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 (three-letter code: 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 (three-letter code: ATP) (formula: C<sub>10</sub>H<sub>16</sub>N<sub>5</sub>O<sub>13</sub>P<sub>3</sub>) (labeled as "Ligand of Interest" by depositor).



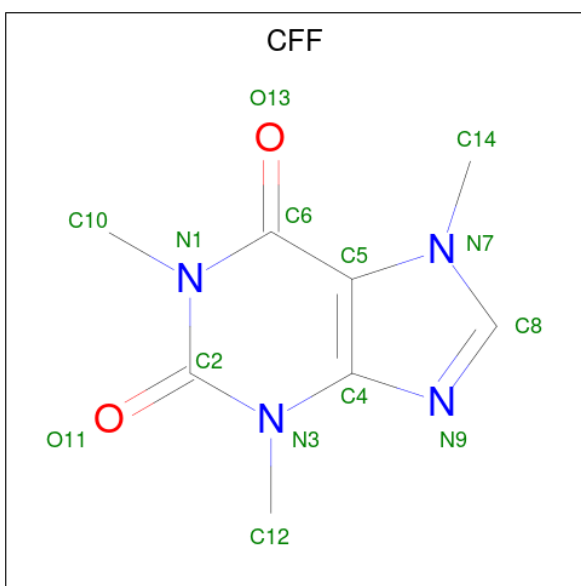
Mol	Chain	Residues	Atoms					AltConf
5	B	1	Total	C	N	O	P	0
			31	10	5	13	3	

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

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



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

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

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

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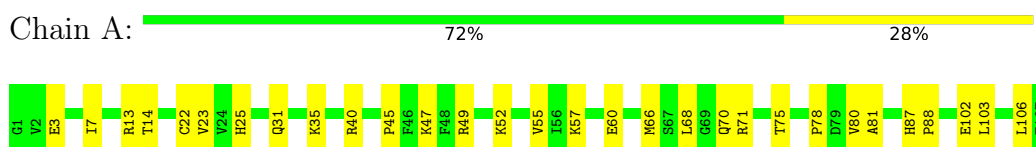
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<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>		<b>AltConf</b>
7	E	1	Total 1	Ca 1	0
7	G	1	Total 1	Ca 1	0
7	J	1	Total 1	Ca 1	0

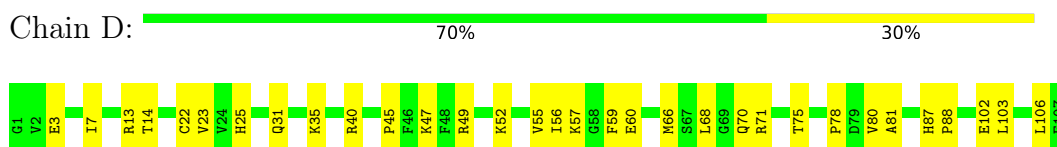
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

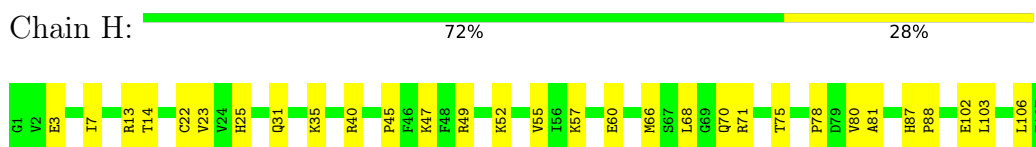
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



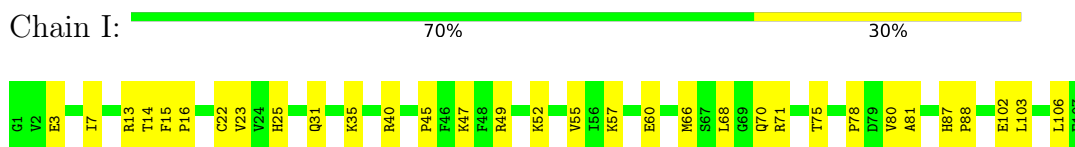
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



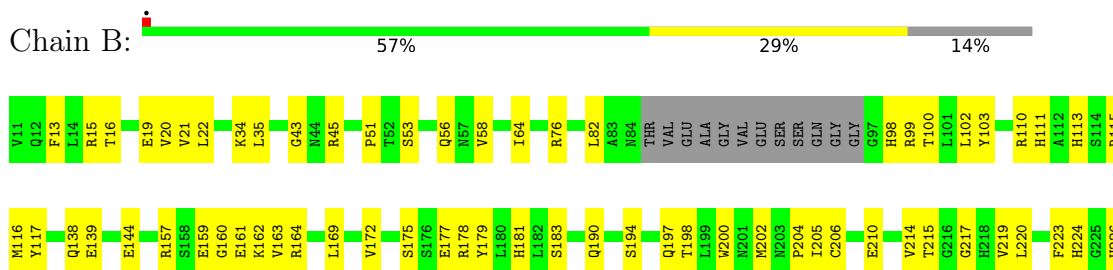
- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



- Molecule 1: Peptidyl-prolyl cis-trans isomerase FKBP1B



- Molecule 2: Ryanodine receptor 1













V2214	H2125	V1841	M1730	G1621	R1508	ASP	LYS	R1290	S1171	D1070	L984	E876
L2215	R2126	L1849	L1731	E1622	L1514	VAL	GLU	L1291	S1175	R1071	Y985	M877
G2216	Q2127	V1850	E1733	R1623	L1614	VAL	GLY	S1292	E1176	V1072	I878	M879
GLY	LYS	G1851	R1823	L1624	C1518	PRO	THR	L1293	T1177	R1073	H993	H879
GLY	LEU	M1852	Y1734	G1625	C1519	ALA	PRO	P1294	E1178	F1074	W996	R886
ASP	GLU	I1853	I1735	W1626	L1519	ASP	GLY	F1297	A1179	F1075	R1000	I887
I1922	A1627	F1854	P1740	A1627	L1522	N1420	THR	H1298	F1179	E1076	E1000	W891
L1927	M1637	D1858	R1743	M1637	A1523	R1421	PRO	Q1299	E1181	A1077	W1005	T892
L1934	A1638	L1639	R1743	A1638	A1523	D1422	PRO	H1299	I1182	E1078	S1006	Y893
S1934	L1639	D1423	P1749	H1640	M1527	D1423	GLN	T1304	I1188	T1082	Y1007	G894
LEU	H1640	I1641	P1749	I1641	K1547	E1425	VAL	ALA	E1188	V1083	S1008	R897
M1939	M1645	F1549	R1758	I1645	L1548	I1426	GLU	ALA	L1189	G1086	I1013	K901
L1943	I1866	F1549	R1759	M1644	P1550	T1431	ALA	THR	C1192	R1087	I1016	R902
E1944	F1871	M1645	P1763	E1644	V1551	T1432	GLN	PRO	C1192	G1087	R1016	R903
Y1945	F1871	R1646	P1763	R1646	I1562	T1432	ALA	PRO	C1192	R1087	R1017	L904
F1946	F1871	C1647	P1763	M1648	E1565	Y1434	VAL	ALA	P1196	F1092	M1018	H904
VAL	E1874	M1648	L1771	M1648	F1553	Y1434	ARG	PRO	P1196	E1093	M1018	P905
E1950	G1874	G1874	L1771	M1648	V1554	Y1435	ALA	PRO	W1199	A1094	L1021	C906
R1964	G1874	G1874	R1772	E1652	L1555	V1439	ALA	GLY	G1200	V1095	P1022	L907
Y1965	G1874	G1874	R1772	L1653	P1556	V1439	ASN	LEU	D1207	M1100	W1022	H911
V1966	G1874	G1874	H1776	L1653	P1556	Q1443	GLU	LEU	D1207	R1101	P1023	S912
PRO	G1874	G1874	V1783	R1656	Q1559	C1447	LYS	GLN	D1207	M1100	L1026	L913
GLU	G1874	G1874	V1783	R1656	N1560	C1447	ASP	PRO	S1210	R1101	L1027	E917
GLU	G1874	G1874	L1786	R1661	V1561	V1448	ALA	ALA	S1210	W1104	K1032	L929
GLU	G1874	G1874	P1787	F1662	I1562	V1448	THR	ALA	F1223	G1116	R1036	K930
GLU	G1874	G1874	ALA	H1663	E1565	W1450	THR	ASP	A1227	G1116	Q1041	T931
GLU	G1874	G1874	ALA	S1664	E1565	G1451	THR	ASP	A1227	G1116	A1042	L932
GLU	G1874	G1874	GLY	H1665	K1568	W1452	LYS	PRO	W1234	Y1122	V1043	L932
GLU	G1874	G1874	VAL	Y1670	Q1588	T1464	LYS	ALA	W1234	M1125	T1044	L932
GLU	G1874	G1874	ALA	R1671	L1570	P1465	LYS	ALA	W1237	M1125	R1044	A934
GLU	G1874	G1874	ALA	E1793	M1571	M1462	ARG	GLU	W1237	R1128	L1046	C937
GLU	G1874	G1874	E1793	V1673	I1572	M1462	GLY	PRO	Q1244	G1128	T1046	H938
ASP	ASP	ASP	R1797	V1673	M1573	M1476	PHE	ASP	F1245	Q1130	L1046	V939
GLU	GLU	GLU	P1800	L1676	P1574	G1477	LEU	PRO	E1246	R1131	L1047	G940
GLU	GLU	GLU	P1800	L1676	L1575	G1477	PHE	ASP	P1247	W1132	L1047	E947
GLU	GLU	GLU	P1800	R1680	L1575	D1478	LYS	TYR	W1248	H1133	G1048	L950
LYS	LYS	LYS	L1804	R1680	A1578	M1482	ALA	GLU	P1249	Y1049	Y1051	K951
GLU	GLU	GLU	R1808	L1694	M1579	V1483	LYS	ASN	H1252	G1050	Y1051	E947
ASP	ASP	ASP	D1809	L1698	F1580	H1484	LYS	LEU	H1252	Y1051	Y1051	L950
GLU	GLU	GLU	K1810	L1703	R1584	S1485	ALA	ARG	E1256	I1053	I1053	K951
GLU	GLU	GLU	M1814	L1703	R1584	S1485	ALA	SER	V1257	E1094	E1094	Y959
GLU	GLU	GLU	M1814	P1704	L1594	C1489	MET	SER	V1257	M1152	P1056	Y959
GLU	GLU	GLU	L1815	P1704	L1594	C1489	MET	GLY	M1260	M1152	P1056	Y959
GLU	GLU	GLU	G1816	R1708	L1596	M1494	THR	ALA	D1261	D1154	ASP	P969
LYS	LYS	LYS	G1816	R1708	Q1598	W1495	PRO	TRP	D1261	D1154	ASP	L970
GLU	GLU	GLU	R1827	Y1711	Q1598	W1496	ALA	GLY	P1268	T1156	GLN	D971
ASP	ASP	ASP	D1828	Y1711	P1609	W1496	ALA	GLY	C1269	E1157	GLN	L972
ALA	ALA	ALA	P1829	D1713	F1612	G1497	THR	ALA	C1269	E1157	VAL	R976
GLY	GLY	GLY	V1830	L1714	F1612	G1498	PRO	GLY	L1270	T1158	GLU	L977
LYS	LYS	LYS	L1715	L1715	E1616	V1501	ALA	GLY	R1271	T1159	GLN	L977
GLU	GLU	GLU	E1835	L1715	E1616	V1501	ALA	LEU	L1272	T1160	VAL	R976
GLU	GLU	GLU	F1836	H1718	E1616	S1502	LEU	LYS	A1273	I1161	GLU	L977
GLU	GLU	GLU	Q1837	H1719	T1617	P1503	ARG	PRO	H1274	I1162	M1065	L977
GLU	GLU	GLU	F1838	H1719	T1617	G1504	THR	GLY	L1287	T1163	Q1066	L977
ALA	ALA	ALA	R1839	R1618	R1618	G1504	LEU	GLY	F1288	L1164	S1067	P979
PRO	PRO	PRO	P1840	R1727	A1620	GLY	PRO	ALA	L1289	L1164	R1068	A980
							HIS	ALA		V1168	W1069	Q981









S2685	L2554	L2376	Y2192	Q2107	Q2036	GLU	K1810	L1703	M1599	F1500	ALA
H2688	C2555	L2377	Q2193	E2108	L2039	GLU	M1814	P1704	P1609	V1501	LEU
Y2691	L2559	I2380	N2196	D2109	A2040	GLU	L1815	R1708	F1612	S1502	PRO
E2694	L2469	E2381	L2197	Y2110	L2045	GLU	G1816	R1709	F1615	P1503	ARG
L2696	L2470	E2382	N2198	Q2111	LEU	LYS	R1827	Y1711	V1615	GLN	PRO
L2697	S2471	A2383	R2199	S2113	GLY	ASP	D1828	Y1712	E1616	GLY	HIS
L2698	L2472	A2384	A2200	S2114	ALA	ALA	P1829	D1713	T1617	GLY	ASP
L2699	P2473	R2385	G2202	E2115	GLU	GLU	L1830	L1714	R1618	VAL	VAL
M2700	P2395	P2386	M2203	E2116	GLU	LYS	R1619	L1715	R1619	PRO	PRO
C2702	GLY	P2477	H2204	V2117	GLU	GLU	E1835	I1718	A1620	ALA	ALA
I2706	VAL	V2478	M2208	F2121	PRO	PRO	F1836	H1719	G1621	ASP	ASP
A2709	ARG	K2297	S2122	S2122	GLU	GLU	Q1837	R1727	E1622	M1420	M1420
L2710	ARG	V2298	L2123	L2123	GLU	GLU	F1838	R1727	R1623	R1421	R1421
L2711	ASP	V2299	M2211	L2124	GLU	ALA	V1839	M1730	L1624	D1422	D1422
Y2714	ARG	A2303	N2212	H2125	GLU	PRO	G1840	M1730	G1625	D1423	D1423
V2715	ARG	G2304	N2213	R2126	THR	GLU	V1841	L1731	V1626	P1424	P1424
E2724	GLU	C2305	V2214	Q2127	SER	GLY	F1854	S1732	A1627	E1425	E1425
K2725	HIS	G2306	L2215	Y2128	LEU	GLU	L1849	E1733	M1637	I1426	I1426
L2611	LEU	L2307	G2216	E2133	SER	LYS	Y1734	Y1734	M1637	S1536	S1536
L2612	GLY	L2307	GLY	R2133	GLY	GLY	M1851	I1735	A1638	K1547	T1431
L2613	GLU	L2313	GLU	L2134	ARG	ASP	G1852	I1735	L1639	L1547	T1432
L2614	PRO	Y2318	THR	R2135	LEU	ASP	I1853	P1740	H1640	L1548	Y1433
L2615	PRO	L2321	L2223	L2136	SER	L1927	F1854	R1743	I1641	Y1434	Y1434
L2616	PRO	I2321	L2223	L2137	LEU	LEU	D1888	R1743	P1642	Y1435	Y1435
L2617	GLU	G2322	L2223	L2138	LEU	LEU	I1862	P1749	E1643	V1448	V1448
L2618	GLU	W2323	T2230	L2139	LEU	GLU	M1865	R1758	A1638	V1449	V1449
L2619	GLU	N2324	R2234	R2140	THR	THR	I1866	R1759	N1645	G1451	G1451
L2620	GLU	P2325	R2234	I2144	VAL	VAL	M1866	R1759	C1647	M1452	M1452
L2621	GLU	R2330	R2234	V2149	ARG	ARG	I1874	P1763	M1648	Y1453	Y1453
L2622	GLU	D2333	Y2238	T2152	VAL	VAL	G1874	E1776	E1652	T1462	T1462
L2623	GLU	F2334	L2242	T2152	VAL	VAL	GLU	L1771	F1662	M1462	M1462
L2624	GLU	L2335	Q2245	L2156	LYS	LYS	GLU	R1772	H1663	Q1569	Q1569
L2625	GLU	R2335	N2246	E2157	GLU	GLU	GLU	P1773	R1656	V1561	V1561
L2626	GLU	R2336	Q2246	R2163	GLU	GLU	GLU	H1776	F1664	I1562	I1562
L2627	GLU	F2340	Q2247	V2168	PRO	PRO	GLU	V1783	S1664	F1563	F1563
L2628	GLU	N2351	L2254	Q2173	GLU	GLU	GLU	L1786	H1665	F1564	F1564
L2629	GLU	V2352	S2255	E2174	LEU	LEU	GLU	P1787	T1666	T1462	T1462
L2630	GLU	V2353	L2254	E2175	LEU	LEU	GLU	ALA	Y1670	G1477	G1477
L2631	GLU	R2355	Y2256	N2176	PRO	PRO	GLU	ALA	R1671	D1478	D1478
L2632	GLU	L2356	L2257	M2177	ALA	ALA	GLU	GLY	A1672	M1482	M1482
L2633	GLU	L2357	L2258	M2178	GLU	GLU	GLU	VAL	V1673	P1574	P1574
L2634	GLU	L2357	S2261	M2179	GLU	GLU	GLU	ALA	L1673	L1575	L1575
L2635	GLU	L2358	Q2262	L2179	GLU	GLU	GLU	E1793	L1676	H1484	H1484
L2636	GLU	R2359	G2262	Q2180	GLU	GLU	GLU	ALA	A1578	S1485	S1485
L2637	GLU	K2360	L2263	M1981	GLU	GLU	GLU	ALA	L1676	A1578	A1578
L2638	GLU	F2364	G2264	R1982	ASP	ASP	GLU	GLY	R1680	M1579	M1579
L2639	GLU	F2364	L2265	R1982	GLU	GLU	GLU	VAL	H1683	F1580	F1580
L2640	GLU	A2367	M2266	F2012	GLU	GLU	GLU	ALA	R1584	R1584	R1584
L2641	GLU	L2368	Q2268	K2013	GLU	GLU	GLU	ALA	H1694	M1495	M1495
L2642	GLU	S2374	P2272	L2031	LYS	LYS	GLU	ALA	L1694	W1496	W1496
L2643	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	G1497	G1497
L2644	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2645	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2646	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2647	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2648	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2649	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2650	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2651	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2652	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2653	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2654	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2655	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2656	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2657	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2658	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2659	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
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L2662	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2663	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
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L2665	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2666	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2667	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2668	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2669	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2670	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2671	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2672	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2673	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2674	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2675	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2676	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2677	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2678	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2679	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2680	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2681	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2682	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2683	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2684	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2685	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2686	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2687	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
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L2693	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2694	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2695	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
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L2699	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2700	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2701	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2702	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2703	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2704	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2705	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2706	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2707	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2708	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2709	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2710	GLU	G2375	L2273	H2035	GLU	GLU	GLU	ALA	L1698	D1499	D1499
L2711	GLU	G2375	L2273	H2035	GLU						





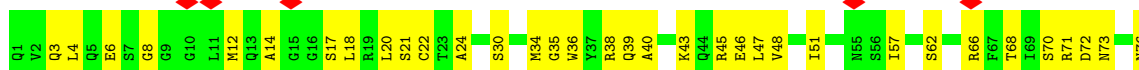


L3110	L3024	F2929	G1N	S2776	A2699	D2482	ASP	V2298	S2122	PRO	GLU
R3111	L3025	Y2935	THR	Y2777	M2700	L2485	ARG	V2299	L2123	GLU	ALA
LEU	H3030	Y2936	ALA	P2701	C2702	L2486	ARG	A2303	L2124	GLU	PRD
GLY	A3031	R2939	GLN	N2780	C2702	K2489	GLU	G2304	H2125	THR	GLU
LYS	S3032	R2939	THR	V2781	I2706	K2489	HIS	C2305	R2126	THR	GLY
VAL	S3033	GLY	TVR	D2782	I2706	A2482	PHE	G2306	Q2127	SER	GLU
SER	H3034	LEU	ASP	E2783	A2709	S2483	GLY	L2307	Y2128	LEU	GLU
GLN	E3035	LYS	PRO	K2786	L2710	F2494	GLY	E2133	E2133	SER	LYS
ALA	E3036	LYS	ARG	P2787	L2711	V2495	GLU	L2134	L2134	SER	GLU
ARG	K3036	MET	GLU	P2789	P2711	P2496	PRO	L2135	L2135	ARG	ASP
THR	E3037	GLU	GLY	H2788	Y2714	H2497	PRO	R2136	R2136	LEU	L1922
GLN	S3041	L2946	Y2855	V2715	V2715	K2499	GLU	A2137	A2137	SER	L1927
VAL	L3042	S2950	I2856	E2724	E2724	K2500	GLU	P2139	P2139	LEU	S1934
L3044	L3043	S2950	L2791	K2725	K2725	S2501	GLU	R2140	R2140	LEU	M1939
F3044	C3044	K2953	L2791	K2725	K2725	G2502	GLU	R2141	R2141	LEU	M1939
G3045	K3045	R2954	L2822	ALA	R2508	R2508	VAL	I2144	I2144	VAL	L1943
L3049	L3049	R2955	L2823	THR	V2509	V2509	LEU	V2149	V2149	LEU	E1944
V3050	V3050	A2956	R2624	VAL	Y2510	Y2510	VAL	T2152	T2152	VAL	F1946
R3051	R3051	F2957	R2825	ASP	G2511	G2511	VAL	Q2245	Q2245	LYS	E1950
L3054	L3054	G2958	L2826	ASP	V2627	V2627	VAL	Q2247	Q2247	GLU	L1951
F3057	F3057	E2799	V2627	ALA	M2639	M2639	GLU	R2163	R2163	LYS	E1963
D3060	D3060	E2799	M2639	GLY	L2841	L2841	GLU	F2251	F2251	PRO	R1964
L3065	L3065	D2800	L2841	P2737	K2642	K2642	GLU	V2168	V2168	PRO	R1964
H3068	H3068	D2801	R2642	R2738	L2643	L2643	GLU	Q2173	Q2173	GLU	Y1965
H3069	H3069	K2802	R2643	P2739	L2644	L2644	GLU	S2256	S2256	GLU	V1966
L3070	L3070	E2803	L2645	V2740	T2645	T2645	GLU	Y2257	Y2257	LEU	L1969
L3071	L3071	R2806	R2650	V2745	R2650	R2650	GLU	E2174	E2174	LEU	L1969
L3072	L3072	R2809	Y2655	I2746	Y2655	Y2655	GLU	E2175	E2175	PRO	S1975
L3073	L3073	K2810	L2656	I2747	L2656	L2656	GLU	L2258	L2258	ALA	S1975
L3074	L3074	R2813	S2668	P2748	S2668	S2668	GLU	S2261	S2261	GLU	A1978
L3075	L3075	K2814	E2669	E2748	E2669	E2669	GLU	G2262	G2262	GLU	L1979
D3076	D3076	A2815	R2750	K2750	R2750	R2750	GLU	I2263	I2263	ALA	L1980
T3079	T3079	K2815	L2751	L2751	L2751	L2751	GLU	G2264	G2264	GLU	L1980
S3080	S3080	D2819	D2752	D2752	D2752	D2752	GLU	L2265	L2265	PRO	M1981
G3084	G3084	E2820	S2753	S2753	S2753	S2753	GLU	G2266	G2266	PRO	R1982
V3088	V3088	W2821	L2754	L2754	L2754	L2754	GLU	M2267	M2267	GLU	F2012
V3088	V3088	W2821	L2755	L2755	L2755	L2755	GLU	Q2268	Q2268	GLU	K2013
L3175	L3175	E2824	K2757	K2757	K2757	K2757	GLU	P2272	P2272	GLU	L2031
L3175	L3175	K2825	W2880	W2880	W2880	W2880	GLU	L2273	L2273	GLU	H2035
L3175	L3175	A2826	G2681	G2681	G2681	G2681	GLU	A2277	A2277	GLU	Q2036
L3176	L3176	R2827	D2684	D2684	D2684	D2684	GLU	S2279	S2279	GLU	L2039
L3176	L3176	E2828	S2685	S2685	S2685	S2685	GLU	L2286	L2286	GLU	A2040
L3183	L3183	C2829	H2688	H2688	H2688	H2688	GLU	A2287	A2287	GLU	Q2045
L3183	L3183	E2830	H2688	H2688	H2688	H2688	GLU	L2288	L2288	GLU	LEU
L3186	L3186	GLU	Y2691	Y2691	Y2691	Y2691	GLU	Q2291	Q2291	GLU	GLY
R3187	R3187	THR	E2694	E2694	E2694	E2694	GLU	E2292	E2292	GLU	GLY
L3190	L3190	THR	L2885	L2885	L2885	L2885	GLU	Q2293	Q2293	GLU	GLU
L3190	L3190	GLU	Y2696	Y2696	Y2696	Y2696	GLU	H2294	H2294	GLU	GLU
G3191	G3191	LYS	R2698	R2698	R2698	R2698	GLU	M2297	M2297	GLU	GLU
E3192	E3192	LYS	Q2924	Q2924	Q2924	Q2924	GLU	K2297	K2297	GLU	GLU
L3194	L3194	ILE	K2928	K2928	K2928	K2928	GLU	M2298	M2298	GLU	GLU

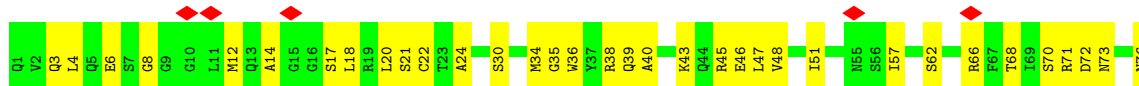




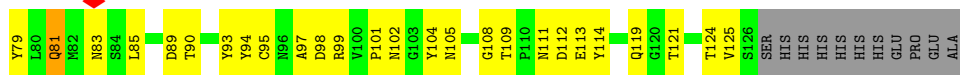
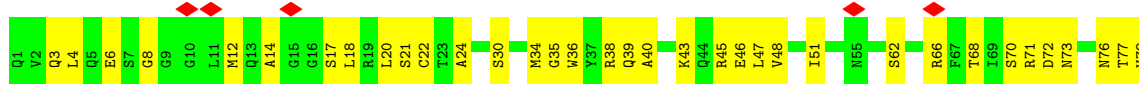
• Molecule 3: Nanobody 9657



• Molecule 3: Nanobody 9657

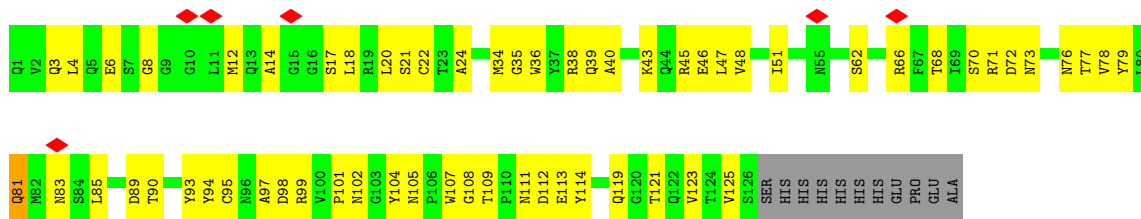


• Molecule 3: Nanobody 9657



• Molecule 3: Nanobody 9657







## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	16530	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	3.003	Depositor
Minimum map value	-0.117	Depositor
Average map value	0.044	Depositor
Map value standard deviation	0.094	Depositor
Recommended contour level	0.2	Depositor
Map size ( $\text{\AA}$ )	504.0, 504.0, 504.0	wwPDB
Map dimensions	336, 336, 336	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.5, 1.5, 1.5	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: ATP, CA, ZN, CFF

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.25	0/834	0.54	0/1123
1	D	0.25	0/834	0.54	0/1123
1	H	0.25	0/834	0.54	0/1123
1	I	0.25	0/834	0.54	0/1123
2	B	0.25	0/34916	0.51	1/47328 (0.0%)
2	E	0.25	0/34916	0.51	1/47328 (0.0%)
2	G	0.25	0/34923	0.51	1/47336 (0.0%)
2	J	0.25	0/34916	0.51	1/47328 (0.0%)
3	C	0.26	0/987	0.56	0/1340
3	F	0.26	0/987	0.56	0/1340
3	K	0.26	0/987	0.56	0/1340
3	M	0.26	0/987	0.56	0/1340
All	All	0.25	0/146955	0.51	4/199172 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1503	PRO	N-CA-CB	5.77	110.23	103.30
2	E	1503	PRO	N-CA-CB	5.77	110.23	103.30
2	G	1503	PRO	N-CA-CB	5.77	110.23	103.30
2	J	1503	PRO	N-CA-CB	5.77	110.23	103.30

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	A	818	0	824	26	0
1	D	818	0	824	28	0
1	H	818	0	824	29	0
1	I	818	0	824	28	0
2	B	34143	0	33531	1049	0
2	E	34143	0	33531	1047	0
2	G	34150	0	33542	1050	0
2	J	34143	0	33531	1042	0
3	C	967	0	916	58	0
3	F	967	0	916	59	0
3	K	967	0	916	58	0
3	M	967	0	916	57	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	0	0
6	E	14	0	10	0	0
6	G	14	0	10	0	0
6	J	14	0	10	0	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	143907	0	141183	4467	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 (4467) 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)
2:E:3416:VAL:HG11	2:E:3516:LYS:HD3	1.51	0.93
2:E:248:GLU:HB2	2:E:373:LYS:HD2	1.51	0.92
2:B:248:GLU:HB2	2:B:373:LYS:HD2	1.52	0.91
2:J:3416:VAL:HG11	2:J:3516:LYS:HD3	1.51	0.91
2:B:3416:VAL:HG11	2:B:3516:LYS:HD3	1.51	0.91
2:G:3416:VAL:HG11	2:G:3516:LYS:HD3	1.51	0.90
2:J:3889:GLN:HB2	2:J:3967:GLU:HG3	1.54	0.90
2:G:3889:GLN:HB2	2:G:3967:GLU:HG3	1.56	0.88
2:J:248:GLU:HB2	2:J:373:LYS:HD2	1.55	0.87
2:E:3889:GLN:HB2	2:E:3967:GLU:HG3	1.56	0.86
2:B:3889:GLN:HB2	2:B:3967:GLU:HG3	1.55	0.86
2:J:3889:GLN:HB3	2:J:3964:SER:HA	1.58	0.84
2:G:360:ALA:HB2	2:G:377:ILE:HG21	1.60	0.83
2:G:2423:MET:HE1	2:G:2494:PHE:HA	1.61	0.83
2:B:3889:GLN:HB3	2:B:3964:SER:HA	1.60	0.83
3:K:105:ASN:HD21	3:K:111:ASN:HB2	1.43	0.83
3:F:105:ASN:HD21	3:F:111:ASN:HB2	1.44	0.83
2:J:2423:MET:HE1	2:J:2494:PHE:HA	1.61	0.82
2:G:3889:GLN:HB3	2:G:3964:SER:HA	1.60	0.82
3:M:105:ASN:HD21	3:M:111:ASN:HB2	1.44	0.82
3:F:34:MET:HG2	3:F:71:ARG:HG3	1.62	0.81
2:B:2423:MET:HE1	2:B:2494:PHE:HA	1.61	0.81
2:E:3889:GLN:HB3	2:E:3964:SER:HA	1.60	0.81
3:C:105:ASN:HD21	3:C:111:ASN:HB2	1.45	0.81
2:E:1160:ILE:HB	2:E:1179:PHE:HB2	1.63	0.81
2:B:1160:ILE:HB	2:B:1179:PHE:HB2	1.63	0.81
2:B:1008:SER:HB2	2:B:1017:ARG:HE	1.47	0.80
2:J:1160:ILE:HB	2:J:1179:PHE:HB2	1.63	0.80
2:E:665:GLU:HB3	2:E:792:LEU:HB2	1.64	0.80
2:J:665:GLU:HB3	2:J:792:LEU:HB2	1.64	0.79
3:K:34:MET:HG2	3:K:71:ARG:HG3	1.62	0.79
3:M:34:MET:HG2	3:M:71:ARG:HG3	1.63	0.79
2:G:1160:ILE:HB	2:G:1179:PHE:HB2	1.63	0.79
2:G:1476:MET:H	2:G:1485:SER:HB2	1.47	0.79
2:G:360:ALA:HA	2:G:377:ILE:HD13	1.64	0.79
3:K:111:ASN:HA	3:K:114:TYR:HD2	1.47	0.79
2:G:1008:SER:HB2	2:G:1017:ARG:HE	1.47	0.79
2:B:1476:MET:H	2:B:1485:SER:HB2	1.47	0.79
2:J:1008:SER:HB2	2:J:1017:ARG:HE	1.47	0.79
2:E:2423:MET:HE1	2:E:2494:PHE:HA	1.65	0.78
1:I:14:THR:HG22	1:I:106:LEU:HD23	1.65	0.78
2:E:246:TYR:HB2	2:E:373:LYS:HE3	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:THR:HG22	1:A:106:LEU:HD23	1.65	0.78
2:B:665:GLU:HB3	2:B:792:LEU:HB2	1.64	0.78
2:J:4024:VAL:HG11	2:J:4142:ASN:HB3	1.65	0.78
2:B:246:TYR:HB2	2:B:373:LYS:HE3	1.64	0.78
2:G:665:GLU:HB3	2:G:792:LEU:HB2	1.64	0.78
3:C:34:MET:HG2	3:C:71:ARG:HG3	1.63	0.78
2:G:748:LEU:HD13	2:G:755:ILE:HG12	1.66	0.78
3:C:111:ASN:HA	3:C:114:TYR:HD2	1.48	0.78
2:J:1476:MET:H	2:J:1485:SER:HB2	1.47	0.78
1:I:23:VAL:HG12	1:I:47:LYS:HG2	1.66	0.77
1:H:14:THR:HG22	1:H:106:LEU:HD23	1.65	0.77
2:E:226:HIS:HE1	2:E:229:GLU:HG2	1.50	0.77
2:E:1476:MET:H	2:E:1485:SER:HB2	1.47	0.77
1:I:88:PRO:HD2	2:J:1786:LEU:HB3	1.66	0.77
2:B:748:LEU:HD13	2:B:755:ILE:HG12	1.66	0.77
2:J:246:TYR:HB2	2:J:373:LYS:HE3	1.66	0.77
2:J:4904:PRO:HD3	2:J:4913:ARG:HH21	1.50	0.77
1:D:14:THR:HG22	1:D:106:LEU:HD23	1.65	0.77
2:G:226:HIS:HE1	2:G:229:GLU:HG2	1.50	0.77
1:A:23:VAL:HG12	1:A:47:LYS:HG2	1.66	0.77
2:B:4024:VAL:HG11	2:B:4142:ASN:HB3	1.67	0.77
2:E:1008:SER:HB2	2:E:1017:ARG:HE	1.47	0.77
1:D:23:VAL:HG12	1:D:47:LYS:HG2	1.66	0.76
2:J:748:LEU:HD13	2:J:755:ILE:HG12	1.66	0.76
3:F:111:ASN:HA	3:F:114:TYR:HD2	1.47	0.76
2:B:226:HIS:HE1	2:B:229:GLU:HG2	1.50	0.76
2:E:748:LEU:HD13	2:E:755:ILE:HG12	1.66	0.76
2:J:2277:ALA:HB2	2:J:2334:PHE:CE1	2.21	0.76
1:D:88:PRO:HD2	2:E:1786:LEU:HB3	1.68	0.76
2:G:2265:LEU:HD21	2:G:2272:PRO:HD2	1.68	0.76
2:G:4024:VAL:HG11	2:G:4142:ASN:HB3	1.67	0.76
2:J:2265:LEU:HD21	2:J:2272:PRO:HD2	1.68	0.76
2:E:2277:ALA:HB2	2:E:2334:PHE:CE1	2.21	0.76
1:H:23:VAL:HG12	1:H:47:LYS:HG2	1.66	0.76
2:B:2277:ALA:HB2	2:B:2334:PHE:CE1	2.21	0.76
2:B:2336:ARG:HB2	2:B:2435:ARG:HD3	1.68	0.76
2:E:2265:LEU:HD21	2:E:2272:PRO:HD2	1.68	0.76
2:E:4904:PRO:HD3	2:E:4913:ARG:HH21	1.50	0.76
3:M:111:ASN:HA	3:M:114:TYR:HD2	1.49	0.76
2:G:2277:ALA:HB2	2:G:2334:PHE:CE1	2.21	0.75
2:B:4904:PRO:HD3	2:B:4913:ARG:HH21	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:226:HIS:HE1	2:J:229:GLU:HG2	1.50	0.75
2:B:3514:LEU:HD22	2:B:3518:LEU:HD22	1.68	0.75
2:E:348:VAL:HB	2:E:357:LEU:HD22	1.69	0.75
2:G:4904:PRO:HD3	2:G:4913:ARG:HH21	1.50	0.75
2:G:2336:ARG:HB2	2:G:2435:ARG:HD3	1.68	0.75
2:G:3514:LEU:HD22	2:G:3518:LEU:HD22	1.68	0.75
2:B:2265:LEU:HD21	2:B:2272:PRO:HD2	1.68	0.75
2:E:4024:VAL:HG11	2:E:4142:ASN:HB3	1.67	0.75
2:B:4027:LEU:HD13	2:B:4146:LEU:HD13	1.69	0.75
1:A:88:PRO:HD2	2:B:1786:LEU:HB3	1.66	0.75
2:E:3514:LEU:HD22	2:E:3518:LEU:HD22	1.68	0.74
2:E:4027:LEU:HD13	2:E:4146:LEU:HD13	1.69	0.74
2:J:2336:ARG:HB2	2:J:2435:ARG:HD3	1.68	0.74
2:J:348:VAL:HB	2:J:357:LEU:HD22	1.69	0.74
2:G:4027:LEU:HD13	2:G:4146:LEU:HD13	1.69	0.74
2:B:348:VAL:HB	2:B:357:LEU:HD22	1.69	0.73
2:J:3514:LEU:HD22	2:J:3518:LEU:HD22	1.68	0.73
3:C:24:ALA:HB3	3:C:76:ASN:HB3	1.71	0.73
2:E:2336:ARG:HB2	2:E:2435:ARG:HD3	1.68	0.73
2:G:348:VAL:HB	2:G:357:LEU:HD22	1.69	0.73
2:J:2277:ALA:HB2	2:J:2334:PHE:HE1	1.54	0.73
2:B:2277:ALA:HB2	2:B:2334:PHE:HE1	1.54	0.73
2:B:940:GLY:H	2:B:1051:TYR:HA	1.54	0.73
2:G:913:LEU:HB3	2:G:917:GLU:HB2	1.71	0.73
3:K:24:ALA:HB3	3:K:76:ASN:HB3	1.71	0.72
3:M:24:ALA:HB3	3:M:76:ASN:HB3	1.71	0.72
2:B:3145:GLN:HA	2:B:3196:ARG:HH21	1.55	0.72
2:G:2277:ALA:HB2	2:G:2334:PHE:HE1	1.54	0.72
2:G:3145:GLN:HA	2:G:3196:ARG:HH21	1.55	0.72
2:J:1152:MET:HB3	2:J:1223:PHE:CE2	2.25	0.72
2:B:355:LEU:HB3	2:B:378:LEU:HB3	1.72	0.72
2:J:4027:LEU:HD13	2:J:4146:LEU:HD13	1.71	0.72
3:F:70:SER:HB3	3:F:79:TYR:HB2	1.71	0.72
2:J:1158:ASN:HB3	2:J:1182:ILE:H	1.54	0.72
2:E:940:GLY:H	2:E:1051:TYR:HA	1.54	0.72
2:E:1158:ASN:HB3	2:E:1182:ILE:H	1.54	0.72
2:G:247:TYR:HB2	2:G:374:LYS:HB2	1.72	0.72
2:E:1561:VAL:HG22	2:E:1562:ILE:HG23	1.72	0.71
2:E:3145:GLN:HA	2:E:3196:ARG:HH21	1.55	0.71
2:J:913:LEU:HB3	2:J:917:GLU:HB2	1.71	0.71
2:B:1152:MET:HB3	2:B:1223:PHE:CE2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:70:SER:HB3	3:C:79:TYR:HB2	1.71	0.71
2:G:355:LEU:HB3	2:G:378:LEU:HB3	1.72	0.71
2:J:3145:GLN:HA	2:J:3196:ARG:HH21	1.55	0.71
3:K:70:SER:HB3	3:K:79:TYR:HB2	1.71	0.71
2:E:1152:MET:HB3	2:E:1223:PHE:CE2	2.25	0.71
2:G:940:GLY:H	2:G:1051:TYR:HA	1.54	0.71
2:B:234:SER:HB3	2:B:242:ARG:HA	1.73	0.71
2:E:35:LEU:HG	2:E:51:PRO:HA	1.73	0.71
3:C:39:GLN:HB2	3:C:45:ARG:HE	1.56	0.71
2:E:913:LEU:HB3	2:E:917:GLU:HB2	1.71	0.71
2:E:2277:ALA:HB2	2:E:2334:PHE:HE1	1.54	0.71
2:G:1152:MET:HB3	2:G:1223:PHE:CE2	2.25	0.71
2:G:1158:ASN:HB3	2:G:1182:ILE:H	1.54	0.71
2:J:234:SER:HB3	2:J:242:ARG:HA	1.73	0.71
2:J:4945:ASP:O	2:J:4949:GLN:NE2	2.23	0.71
3:F:39:GLN:HB2	3:F:45:ARG:HE	1.56	0.71
3:K:39:GLN:HB2	3:K:45:ARG:HE	1.56	0.71
2:B:35:LEU:HG	2:B:51:PRO:HA	1.73	0.71
2:B:1158:ASN:HB3	2:B:1182:ILE:H	1.54	0.71
2:G:214:VAL:HG13	2:G:274:LEU:HB3	1.73	0.71
2:G:234:SER:HB3	2:G:242:ARG:HA	1.73	0.71
3:F:24:ALA:HB3	3:F:76:ASN:HB3	1.71	0.71
1:H:88:PRO:HD2	2:G:1786:LEU:HB3	1.71	0.71
2:E:355:LEU:HB3	2:E:378:LEU:HB3	1.72	0.71
2:G:4945:ASP:O	2:G:4949:GLN:NE2	2.23	0.71
2:E:234:SER:HB3	2:E:242:ARG:HA	1.73	0.70
2:E:2288:LEU:O	2:E:3849:ARG:NH1	2.24	0.70
2:G:2288:LEU:O	2:G:3849:ARG:NH1	2.24	0.70
2:J:35:LEU:HG	2:J:51:PRO:HA	1.73	0.70
3:F:40:ALA:HB3	3:F:43:LYS:HB2	1.73	0.70
3:M:70:SER:HB3	3:M:79:TYR:HB2	1.71	0.70
2:B:1561:VAL:HG22	2:B:1562:ILE:HG23	1.72	0.70
2:B:2288:LEU:O	2:B:3849:ARG:NH1	2.24	0.70
2:E:551:LEU:HD13	2:E:589:LEU:HD11	1.73	0.70
2:J:214:VAL:HG13	2:J:274:LEU:HB3	1.73	0.70
2:J:1561:VAL:HG22	2:J:1562:ILE:HG23	1.72	0.70
2:J:940:GLY:H	2:J:1051:TYR:HA	1.54	0.70
2:B:913:LEU:HB3	2:B:917:GLU:HB2	1.71	0.70
2:B:4945:ASP:O	2:B:4949:GLN:NE2	2.23	0.70
2:J:551:LEU:HD13	2:J:589:LEU:HD11	1.73	0.70
2:J:4090:LYS:HE3	2:J:4117:ALA:HB2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3270:ILE:HG22	2:B:3334:TRP:HZ3	1.57	0.70
2:E:4090:LYS:HG2	2:E:4123:ILE:HD11	1.74	0.70
2:J:355:LEU:HB3	2:J:378:LEU:HB3	1.72	0.70
2:J:2288:LEU:O	2:J:3849:ARG:NH1	2.24	0.70
2:J:4090:LYS:HG2	2:J:4123:ILE:HD11	1.74	0.70
2:B:3842:LEU:HB2	2:B:3929:SER:HB2	1.73	0.70
2:B:3769:ARG:O	2:B:3773:ARG:NH1	2.25	0.70
2:E:4945:ASP:O	2:E:4949:GLN:NE2	2.23	0.70
2:G:1561:VAL:HG22	2:G:1562:ILE:HG23	1.72	0.70
2:G:3270:ILE:HG22	2:G:3334:TRP:HZ3	1.57	0.70
2:J:3031:ALA:O	2:J:3036:LYS:NZ	2.24	0.70
2:B:5015:GLN:HA	2:B:5017:ARG:HH21	1.57	0.70
2:G:5015:GLN:HA	2:G:5017:ARG:HH21	1.57	0.70
2:J:3842:LEU:HB2	2:J:3929:SER:HB2	1.73	0.70
2:B:4090:LYS:HG2	2:B:4123:ILE:HD11	1.74	0.70
2:E:3270:ILE:HG22	2:E:3334:TRP:HZ3	1.57	0.70
2:G:35:LEU:HG	2:G:51:PRO:HA	1.73	0.70
2:G:3355:HIS:HA	2:G:3359:ILE:HD12	1.74	0.70
2:G:3986:TRP:NE1	2:G:4047:MET:HB3	2.07	0.70
3:M:39:GLN:HB2	3:M:45:ARG:HE	1.56	0.70
2:G:4090:LYS:HG2	2:G:4123:ILE:HD11	1.74	0.70
2:J:3355:HIS:HA	2:J:3359:ILE:HD12	1.74	0.70
2:G:3769:ARG:O	2:G:3773:ARG:NH1	2.25	0.69
2:J:3986:TRP:NE1	2:J:4047:MET:HB3	2.07	0.69
2:E:3842:LEU:HB2	2:E:3929:SER:HB2	1.73	0.69
2:G:3842:LEU:HB2	2:G:3929:SER:HB2	1.73	0.69
2:B:2359:ARG:HH22	2:G:177:GLU:HB2	1.56	0.69
2:B:3986:TRP:NE1	2:B:4047:MET:HB3	2.07	0.69
2:E:5015:GLN:HA	2:E:5017:ARG:HH21	1.57	0.69
2:G:4090:LYS:HE3	2:G:4117:ALA:HB2	1.74	0.69
2:J:226:HIS:CE1	2:J:229:GLU:HG2	2.28	0.69
2:J:2536:LEU:HD13	2:J:2541:PHE:HB3	1.75	0.69
3:K:40:ALA:HB3	3:K:43:LYS:HB2	1.73	0.69
2:B:177:GLU:HB2	2:E:2359:ARG:HH22	1.56	0.69
2:G:2536:LEU:HD13	2:G:2541:PHE:HB3	1.75	0.69
2:J:5015:GLN:HA	2:J:5017:ARG:HH21	1.57	0.69
3:C:40:ALA:HB3	3:C:43:LYS:HB2	1.73	0.69
2:E:214:VAL:HG13	2:E:274:LEU:HB3	1.73	0.69
2:B:4090:LYS:HE3	2:B:4117:ALA:HB2	1.74	0.69
2:E:3986:TRP:NE1	2:E:4047:MET:HB3	2.07	0.69
2:B:226:HIS:CE1	2:B:229:GLU:HG2	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2536:LEU:HD13	2:E:2541:PHE:HB3	1.75	0.69
2:G:551:LEU:HD13	2:G:589:LEU:HD11	1.73	0.69
2:J:3769:ARG:O	2:J:3773:ARG:NH1	2.25	0.69
2:B:2536:LEU:HD13	2:B:2541:PHE:HB3	1.75	0.69
2:E:226:HIS:CE1	2:E:229:GLU:HG2	2.28	0.69
2:E:4090:LYS:HE3	2:E:4117:ALA:HB2	1.74	0.69
3:M:40:ALA:HB3	3:M:43:LYS:HB2	1.73	0.69
2:B:551:LEU:HD13	2:B:589:LEU:HD11	1.73	0.68
2:G:2359:ARG:HH22	2:J:177:GLU:HB2	1.56	0.68
2:J:247:TYR:HB2	2:J:374:LYS:HB2	1.74	0.68
2:B:823:LEU:HD11	2:B:1626:TRP:HB3	1.75	0.68
2:B:3355:HIS:HA	2:B:3359:ILE:HD12	1.74	0.68
2:E:3355:HIS:HA	2:E:3359:ILE:HD12	1.74	0.68
2:E:3769:ARG:O	2:E:3773:ARG:NH1	2.25	0.68
2:E:4248:ALA:HA	2:E:4251:ILE:HG22	1.76	0.68
2:J:3270:ILE:HG22	2:J:3334:TRP:HZ3	1.57	0.68
2:B:214:VAL:HG13	2:B:274:LEU:HB3	1.73	0.68
2:E:247:TYR:HB2	2:E:374:LYS:HB2	1.75	0.68
2:G:226:HIS:CE1	2:G:229:GLU:HG2	2.28	0.68
2:G:358:THR:HG21	2:G:382:GLY:HA2	1.73	0.68
2:B:247:TYR:HB2	2:B:374:LYS:HB2	1.75	0.68
2:G:633:LEU:HB3	2:G:1639:LEU:HD11	1.76	0.68
2:E:177:GLU:HB2	2:J:2359:ARG:HH22	1.57	0.68
2:G:246:TYR:CD2	2:G:373:LYS:HE3	2.29	0.68
2:B:4248:ALA:HA	2:B:4251:ILE:HG22	1.76	0.68
2:E:2645:THR:HB	2:E:2702:CYS:HA	1.75	0.68
2:B:3031:ALA:O	2:B:3036:LYS:NZ	2.24	0.67
2:E:2624:ARG:NH2	2:E:2915:GLU:OE2	2.27	0.67
2:G:2645:THR:HB	2:G:2702:CYS:HA	1.75	0.67
2:B:917:GLU:OE1	3:C:101:PRO:HB2	1.95	0.67
2:G:840:VAL:HG12	2:G:1199:VAL:HG12	1.77	0.67
2:G:2624:ARG:NH2	2:G:2915:GLU:OE2	2.27	0.67
2:B:633:LEU:HB3	2:B:1639:LEU:HD11	1.76	0.67
2:G:248:GLU:HB2	2:G:373:LYS:CD	2.25	0.67
2:J:823:LEU:HD11	2:J:1626:TRP:HB3	1.75	0.67
2:J:2645:THR:HB	2:J:2702:CYS:HA	1.76	0.67
2:E:633:LEU:HB3	2:E:1639:LEU:HD11	1.76	0.67
2:G:917:GLU:OE1	3:M:101:PRO:HB2	1.94	0.67
2:G:2265:LEU:O	2:G:2268:GLN:HG3	1.94	0.67
2:J:4081:VAL:HG12	2:J:4088:ILE:HD13	1.76	0.67
2:B:2645:THR:HB	2:B:2702:CYS:HA	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2902:HIS:HB3	2:B:2905:LEU:HG	1.76	0.67
2:G:1733:GLU:HG2	2:G:2201:LEU:HD23	1.77	0.67
2:G:4081:VAL:HG12	2:G:4088:ILE:HD13	1.76	0.67
2:J:2196:ASN:OD1	2:J:2199:ARG:NH2	2.28	0.67
2:B:840:VAL:HG12	2:B:1199:VAL:HG12	1.77	0.67
2:B:2196:ASN:OD1	2:B:2199:ARG:NH2	2.28	0.67
2:E:2902:HIS:HB3	2:E:2905:LEU:HG	1.76	0.67
2:J:2265:LEU:O	2:J:2268:GLN:HG3	1.94	0.67
2:B:4081:VAL:HG12	2:B:4088:ILE:HD13	1.76	0.67
2:E:823:LEU:HD11	2:E:1626:TRP:HB3	1.75	0.67
2:E:2117:VAL:HG11	2:E:3700:GLN:HE22	1.60	0.67
2:E:2196:ASN:OD1	2:E:2199:ARG:NH2	2.28	0.67
2:G:823:LEU:HD11	2:G:1626:TRP:HB3	1.75	0.67
2:B:2117:VAL:HG11	2:B:3700:GLN:HE22	1.60	0.67
2:B:2265:LEU:O	2:B:2268:GLN:HG3	1.94	0.67
2:B:2624:ARG:NH2	2:B:2915:GLU:OE2	2.27	0.67
2:J:1733:GLU:HG2	2:J:2201:LEU:HD23	1.77	0.67
2:J:2624:ARG:NH2	2:J:2915:GLU:OE2	2.27	0.67
2:J:840:VAL:HG12	2:J:1199:VAL:HG12	1.77	0.67
2:B:1163:THR:HG22	2:B:1168:VAL:HA	1.76	0.66
2:E:2265:LEU:O	2:E:2268:GLN:HG3	1.94	0.66
2:G:1163:THR:HG22	2:G:1168:VAL:HA	1.76	0.66
2:G:4248:ALA:HA	2:G:4251:ILE:HG22	1.76	0.66
2:B:3995:VAL:HG23	2:B:3999:MET:HE1	1.77	0.66
2:J:1163:THR:HG22	2:J:1168:VAL:HA	1.76	0.66
2:E:840:VAL:HG12	2:E:1199:VAL:HG12	1.77	0.66
2:G:3031:ALA:O	2:G:3036:LYS:NZ	2.24	0.66
2:G:2196:ASN:OD1	2:G:2199:ARG:NH2	2.28	0.66
2:G:2970:SER:HA	2:G:2973:PHE:CE2	2.31	0.66
2:J:633:LEU:HB3	2:J:1639:LEU:HD11	1.76	0.66
1:A:71:ARG:HG3	1:A:102:GLU:HB2	1.78	0.66
1:H:71:ARG:HG3	1:H:102:GLU:HB2	1.78	0.66
2:B:2970:SER:HA	2:B:2973:PHE:CE2	2.31	0.66
2:J:2970:SER:HA	2:J:2973:PHE:CE2	2.31	0.66
2:B:3316:LEU:HD22	2:B:3346:VAL:HA	1.78	0.66
2:B:1733:GLU:HG2	2:B:2201:LEU:HD23	1.77	0.66
2:E:1291:LEU:HD13	2:E:1595:LEU:HD11	1.78	0.66
2:E:3316:LEU:HD22	2:E:3346:VAL:HA	1.78	0.66
2:J:1291:LEU:HD13	2:J:1595:LEU:HD11	1.78	0.66
1:I:71:ARG:HG3	1:I:102:GLU:HB2	1.78	0.66
2:E:3031:ALA:O	2:E:3036:LYS:NZ	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3936:TYR:HA	2:J:76:ARG:HH22	1.61	0.66
1:D:71:ARG:HG3	1:D:102:GLU:HB2	1.78	0.66
2:B:2321:ILE:HG21	2:B:2422:ILE:HD11	1.78	0.66
2:B:3334:TRP:CD1	2:B:3337:ARG:HB2	2.31	0.66
2:J:3316:LEU:HD22	2:J:3346:VAL:HA	1.78	0.66
2:E:1163:THR:HG22	2:E:1168:VAL:HA	1.76	0.65
2:E:2321:ILE:HG21	2:E:2422:ILE:HD11	1.78	0.65
2:G:2117:VAL:HG11	2:G:3700:GLN:HE22	1.60	0.65
2:G:2867:LEU:HD21	2:G:2871:LEU:HB3	1.78	0.65
2:G:3995:VAL:HG23	2:G:3999:MET:HE1	1.78	0.65
2:J:4248:ALA:HA	2:J:4251:ILE:HG22	1.76	0.65
2:G:2902:HIS:HB3	2:G:2905:LEU:HG	1.76	0.65
2:J:2902:HIS:HB3	2:J:2905:LEU:HG	1.76	0.65
2:J:917:GLU:OE1	3:K:101:PRO:HB2	1.96	0.65
2:J:2117:VAL:HG11	2:J:3700:GLN:HE22	1.60	0.65
2:E:1733:GLU:HG2	2:E:2201:LEU:HD23	1.77	0.65
2:J:2867:LEU:HD21	2:J:2871:LEU:HB3	1.78	0.65
2:E:917:GLU:OE1	3:F:101:PRO:HB2	1.96	0.65
2:E:4081:VAL:HG12	2:E:4088:ILE:HD13	1.76	0.65
2:B:1291:LEU:HD13	2:B:1595:LEU:HD11	1.78	0.65
2:J:2321:ILE:HG21	2:J:2422:ILE:HD11	1.79	0.65
2:E:76:ARG:HH22	2:J:3936:TYR:HA	1.61	0.65
2:E:2867:LEU:HD21	2:E:2871:LEU:HB3	1.78	0.65
2:B:1095:VAL:HB	2:B:1199:VAL:HG23	1.79	0.64
2:B:2305:CYS:HB2	2:B:2324:ASN:HB3	1.79	0.64
2:B:2867:LEU:HD21	2:B:2871:LEU:HB3	1.78	0.64
2:G:1291:LEU:HD13	2:G:1595:LEU:HD11	1.78	0.64
2:G:2321:ILE:HG21	2:G:2422:ILE:HD11	1.78	0.64
2:G:3334:TRP:CD1	2:G:3337:ARG:HB2	2.31	0.64
3:K:111:ASN:HA	3:K:114:TYR:CD2	2.31	0.64
2:B:76:ARG:HH22	2:E:3936:TYR:HA	1.62	0.64
2:E:3334:TRP:CD1	2:E:3337:ARG:HB2	2.31	0.64
2:G:3316:LEU:HD22	2:G:3346:VAL:HA	1.78	0.64
3:F:22:CYS:HB3	3:F:78:VAL:HB	1.79	0.64
3:K:22:CYS:HB3	3:K:78:VAL:HB	1.79	0.64
2:E:2970:SER:HA	2:E:2973:PHE:CE2	2.31	0.64
2:J:3334:TRP:CD1	2:J:3337:ARG:HB2	2.31	0.64
2:J:4151:SER:HA	2:J:4160:LEU:HD21	1.79	0.64
2:G:2305:CYS:HB2	2:G:2324:ASN:HB3	1.79	0.64
2:G:248:GLU:HB2	2:G:373:LYS:HD2	1.79	0.64
2:G:4151:SER:HA	2:G:4160:LEU:HD21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:23:VAL:HB	1:D:45:PRO:HB2	1.80	0.64
2:B:3936:TYR:HA	2:G:76:ARG:HH22	1.61	0.64
2:G:1122:TYR:HE2	2:G:1182:ILE:HG12	1.63	0.64
3:F:111:ASN:HA	3:F:114:TYR:CD2	2.32	0.64
2:E:2305:CYS:HB2	2:E:2324:ASN:HB3	1.79	0.64
2:G:2827:ARG:NH2	2:G:2935:TYR:OH	2.32	0.63
2:J:3995:VAL:HG23	2:J:3999:MET:HE1	1.78	0.63
1:A:23:VAL:HB	1:A:45:PRO:HB2	1.80	0.63
2:B:2199:ARG:NH2	2:B:2245:GLN:OE1	2.31	0.63
2:E:2340:PHE:HB3	2:E:2435:ARG:HH21	1.63	0.63
2:G:4722:ARG:NH2	2:G:4726:ASP:OD1	2.31	0.63
2:J:1122:TYR:HE2	2:J:1182:ILE:HG12	1.63	0.63
2:J:2199:ARG:NH2	2:J:2245:GLN:OE1	2.32	0.63
2:B:870:ILE:HG13	2:B:873:LYS:HD2	1.80	0.63
2:B:2418:LEU:O	2:B:2422:ILE:HG12	1.99	0.63
2:J:2827:ARG:NH2	2:J:2935:TYR:OH	2.32	0.63
2:B:2364:PHE:HD1	2:B:2429:LEU:HD21	1.64	0.63
2:E:574:VAL:HA	2:E:577:ILE:HG22	1.81	0.63
2:E:870:ILE:HG13	2:E:873:LYS:HD2	1.80	0.63
2:E:1095:VAL:HB	2:E:1199:VAL:HG23	1.79	0.63
2:G:650:VAL:HB	2:G:750:LEU:HD11	1.80	0.63
2:J:4722:ARG:NH2	2:J:4726:ASP:OD1	2.31	0.63
3:C:111:ASN:HA	3:C:114:TYR:CD2	2.32	0.63
3:M:22:CYS:HB3	3:M:78:VAL:HB	1.79	0.63
2:E:1122:TYR:HE2	2:E:1182:ILE:HG12	1.63	0.63
2:J:1095:VAL:HB	2:J:1199:VAL:HG23	1.79	0.63
3:C:22:CYS:HB3	3:C:78:VAL:HB	1.79	0.63
2:B:1122:TYR:HE2	2:B:1182:ILE:HG12	1.63	0.63
2:E:2199:ARG:NH2	2:E:2245:GLN:OE1	2.31	0.63
2:E:2364:PHE:HD1	2:E:2429:LEU:HD21	1.64	0.63
2:E:4151:SER:HA	2:E:4160:LEU:HD21	1.79	0.63
2:G:2340:PHE:HB3	2:G:2435:ARG:HH21	1.63	0.63
1:H:23:VAL:HB	1:H:45:PRO:HB2	1.80	0.63
2:E:4152:GLU:OE1	2:E:4192:ARG:NH1	2.32	0.63
2:E:4722:ARG:NH2	2:E:4726:ASP:OD1	2.31	0.63
2:B:2340:PHE:HB3	2:B:2435:ARG:HH21	1.64	0.63
2:E:2177:LEU:HD13	2:E:2180:GLN:HE21	1.63	0.63
2:E:2418:LEU:O	2:E:2422:ILE:HG12	1.99	0.63
2:G:870:ILE:HG13	2:G:873:LYS:HD2	1.80	0.63
1:I:23:VAL:HB	1:I:45:PRO:HB2	1.80	0.63
2:G:1095:VAL:HB	2:G:1199:VAL:HG23	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2827:ARG:NH2	2:B:2935:TYR:OH	2.32	0.62
2:B:4152:GLU:OE1	2:B:4192:ARG:NH1	2.32	0.62
2:J:2305:CYS:HB2	2:J:2324:ASN:HB3	1.79	0.62
2:B:4151:SER:HA	2:B:4160:LEU:HD21	1.79	0.62
2:G:2199:ARG:NH2	2:G:2245:GLN:OE1	2.32	0.62
2:J:870:ILE:HG13	2:J:873:LYS:HD2	1.80	0.62
2:J:2368:LEU:HD11	2:J:2376:LEU:HD12	1.82	0.62
2:E:3227:ARG:HB3	2:E:3232:LEU:HB2	1.82	0.62
2:E:4087:LEU:HD12	2:E:4122:MET:HG3	1.81	0.62
2:G:2368:LEU:HD11	2:G:2376:LEU:HD12	1.82	0.62
2:G:2418:LEU:O	2:G:2422:ILE:HG12	1.99	0.62
2:J:3227:ARG:HB3	2:J:3232:LEU:HB2	1.81	0.62
2:B:2177:LEU:HD13	2:B:2180:GLN:HE21	1.63	0.62
2:E:2749:GLU:HG3	2:E:2752:ASP:HB2	1.81	0.62
2:E:3050:VAL:HG11	2:E:3068:LEU:HD11	1.82	0.62
2:G:574:VAL:HA	2:G:577:ILE:HG22	1.81	0.62
2:G:2177:LEU:HD13	2:G:2180:GLN:HE21	1.63	0.62
2:G:3050:VAL:HG11	2:G:3068:LEU:HD11	1.82	0.62
2:G:3227:ARG:HB3	2:G:3232:LEU:HB2	1.81	0.62
2:B:574:VAL:HA	2:B:577:ILE:HG22	1.81	0.62
2:B:2368:LEU:HD11	2:B:2376:LEU:HD12	1.82	0.62
2:B:2916:LYS:HD3	2:B:2920:ARG:HH21	1.64	0.62
2:G:2364:PHE:HD1	2:G:2429:LEU:HD21	1.64	0.62
2:J:894:GLY:HA3	2:J:903:LEU:HD13	1.82	0.62
2:B:650:VAL:HB	2:B:750:LEU:HD11	1.80	0.62
2:B:4722:ARG:NH2	2:B:4726:ASP:OD1	2.31	0.62
2:E:2368:LEU:HD11	2:E:2376:LEU:HD12	1.82	0.62
2:J:2418:LEU:O	2:J:2422:ILE:HG12	1.99	0.62
2:B:894:GLY:HA3	2:B:903:LEU:HD13	1.82	0.62
2:B:3227:ARG:HB3	2:B:3232:LEU:HB2	1.82	0.62
2:E:894:GLY:HA3	2:E:903:LEU:HD13	1.82	0.62
2:E:2827:ARG:NH2	2:E:2935:TYR:OH	2.32	0.62
2:G:246:TYR:HB2	2:G:373:LYS:HE3	1.80	0.62
2:G:365:LYS:HE2	2:G:369:LEU:HD11	1.81	0.62
2:J:360:ALA:HA	2:J:377:ILE:HD13	1.80	0.62
2:E:2163:ARG:NH2	2:E:2201:LEU:O	2.33	0.62
2:G:2163:ARG:NH2	2:G:2201:LEU:O	2.33	0.62
2:J:2177:LEU:HD13	2:J:2180:GLN:HE21	1.63	0.62
2:J:2749:GLU:HG3	2:J:2752:ASP:HB2	1.81	0.62
2:J:4087:LEU:HD12	2:J:4122:MET:HG3	1.81	0.62
3:M:111:ASN:HA	3:M:114:TYR:CD2	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2916:LYS:HD3	2:E:2920:ARG:HH21	1.64	0.62
2:G:894:GLY:HA3	2:G:903:LEU:HD13	1.82	0.62
2:J:22:LEU:HG	2:J:202:MET:HG3	1.82	0.62
2:E:22:LEU:HG	2:E:202:MET:HG3	1.82	0.61
2:G:22:LEU:HG	2:G:202:MET:HG3	1.82	0.61
2:G:4152:GLU:OE1	2:G:4192:ARG:NH1	2.32	0.61
2:J:650:VAL:HB	2:J:750:LEU:HD11	1.80	0.61
2:B:2163:ARG:NH2	2:B:2201:LEU:O	2.33	0.61
2:B:3050:VAL:HG11	2:B:3068:LEU:HD11	1.82	0.61
2:J:2340:PHE:HB3	2:J:2435:ARG:HH21	1.64	0.61
2:J:3050:VAL:HG11	2:J:3068:LEU:HD11	1.82	0.61
2:J:3343:GLN:NE2	2:J:3471:THR:OG1	2.33	0.61
2:J:4152:GLU:OE1	2:J:4192:ARG:NH1	2.32	0.61
2:B:792:LEU:HA	2:B:798:GLY:HA3	1.82	0.61
2:B:3965:LEU:HA	2:B:3968:TYR:CD2	2.35	0.61
2:G:2971:GLN:HA	2:G:2974:ILE:HG12	1.82	0.61
2:G:4071:ILE:HD13	2:G:4103:PHE:HE2	1.65	0.61
2:J:574:VAL:HA	2:J:577:ILE:HG22	1.81	0.61
2:J:2627:VAL:HG22	2:J:2678:LEU:HD21	1.82	0.61
2:B:252:VAL:HG21	2:B:257:ARG:HD3	1.83	0.61
2:B:3802:ILE:O	2:B:3806:ASN:ND2	2.33	0.61
2:B:4071:ILE:HD13	2:B:4103:PHE:HE2	1.65	0.61
2:E:2627:VAL:HG22	2:E:2678:LEU:HD21	1.82	0.61
2:G:2916:LYS:HD3	2:G:2920:ARG:HH21	1.64	0.61
2:G:3802:ILE:O	2:G:3806:ASN:ND2	2.33	0.61
2:G:4087:LEU:HD12	2:G:4122:MET:HG3	1.81	0.61
2:E:252:VAL:HG21	2:E:257:ARG:HD3	1.83	0.61
2:E:2578:MET:O	2:E:2582:MET:HG2	2.01	0.61
2:E:3965:LEU:HA	2:E:3968:TYR:CD2	2.35	0.61
2:B:22:LEU:HG	2:B:202:MET:HG3	1.82	0.61
2:E:650:VAL:HB	2:E:750:LEU:HD11	1.80	0.61
2:G:3065:VAL:O	2:G:3069:HIS:ND1	2.34	0.61
2:G:3343:GLN:NE2	2:G:3471:THR:OG1	2.33	0.61
2:J:747:CYS:SG	2:J:756:SER:HB2	2.41	0.61
2:J:2163:ARG:NH2	2:J:2201:LEU:O	2.33	0.61
2:J:2364:PHE:HD1	2:J:2429:LEU:HD21	1.64	0.61
2:J:4090:LYS:HB3	2:J:4112:LEU:HD11	1.82	0.61
2:E:747:CYS:SG	2:E:756:SER:HB2	2.41	0.61
2:E:3802:ILE:O	2:E:3806:ASN:ND2	2.33	0.61
2:J:252:VAL:HG21	2:J:257:ARG:HD3	1.83	0.61
3:C:4:LEU:HD21	3:C:97:ALA:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3965:LEU:HA	2:G:3968:TYR:CD2	2.35	0.61
2:J:2578:MET:O	2:J:2582:MET:HG2	2.01	0.61
2:J:3802:ILE:O	2:J:3806:ASN:ND2	2.33	0.61
2:B:2578:MET:O	2:B:2582:MET:HG2	2.01	0.61
2:E:1477:GLY:HA2	2:E:1483:VAL:HA	1.83	0.61
2:E:4071:ILE:HD13	2:E:4103:PHE:HE2	1.65	0.61
2:G:1619:ARG:HA	2:G:1626:TRP:HA	1.83	0.61
2:J:2916:LYS:HD3	2:J:2920:ARG:HH21	1.64	0.61
2:E:2971:GLN:HA	2:E:2974:ILE:HG12	1.82	0.61
2:E:3065:VAL:O	2:E:3069:HIS:ND1	2.34	0.61
2:G:252:VAL:HG21	2:G:257:ARG:HD3	1.83	0.61
2:G:2749:GLU:HG3	2:G:2752:ASP:HB2	1.81	0.61
2:J:792:LEU:HA	2:J:798:GLY:HA3	1.82	0.61
2:J:3065:VAL:O	2:J:3069:HIS:ND1	2.34	0.61
2:J:4071:ILE:HD13	2:J:4103:PHE:HE2	1.65	0.61
2:B:2971:GLN:HA	2:B:2974:ILE:HG12	1.82	0.60
2:B:3065:VAL:O	2:B:3069:HIS:ND1	2.34	0.60
2:B:3343:GLN:NE2	2:B:3471:THR:OG1	2.33	0.60
2:B:4087:LEU:HD12	2:B:4122:MET:HG3	1.81	0.60
2:G:172:VAL:HG22	2:G:179:TYR:HE1	1.66	0.60
3:F:4:LEU:HD21	3:F:97:ALA:HB2	1.84	0.60
2:B:2627:VAL:HG22	2:B:2678:LEU:HD21	1.82	0.60
2:E:3343:GLN:NE2	2:E:3471:THR:OG1	2.33	0.60
2:E:4090:LYS:HB3	2:E:4112:LEU:HD11	1.82	0.60
2:B:645:ARG:HE	2:B:824:GLU:HG3	1.67	0.60
2:G:792:LEU:HA	2:G:798:GLY:HA3	1.82	0.60
2:G:2627:VAL:HG22	2:G:2678:LEU:HD21	1.82	0.60
2:G:4090:LYS:HB3	2:G:4112:LEU:HD11	1.82	0.60
2:B:4090:LYS:HB3	2:B:4112:LEU:HD11	1.82	0.60
2:E:792:LEU:HA	2:E:798:GLY:HA3	1.82	0.60
2:G:2881:ASN:HA	2:G:2884:ASN:ND2	2.17	0.60
2:J:2971:GLN:HA	2:J:2974:ILE:HG12	1.82	0.60
2:B:3410:PRO:O	2:B:3414:ARG:NH1	2.34	0.60
2:E:2715:VAL:HG11	2:E:2950:SER:HB2	1.84	0.60
2:E:2881:ASN:HA	2:E:2884:ASN:ND2	2.17	0.60
2:G:233:ILE:HA	2:G:245:VAL:HG12	1.84	0.60
2:G:246:TYR:HB2	2:G:373:LYS:CE	2.31	0.60
2:G:3110:LEU:HD11	2:G:3186:LEU:HD23	1.83	0.60
2:J:1619:ARG:HA	2:J:1626:TRP:HA	1.83	0.60
2:B:1451:GLY:HA3	2:B:1494:MET:HA	1.84	0.60
2:B:2749:GLU:HG3	2:B:2752:ASP:HB2	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2967:MET:HG3	2:B:3045:LYS:HD3	1.84	0.60
2:E:172:VAL:HG22	2:E:179:TYR:HE1	1.66	0.60
2:E:574:VAL:O	2:E:578:ILE:HG12	2.02	0.60
2:E:1619:ARG:HA	2:E:1626:TRP:HA	1.83	0.60
2:E:3110:LEU:HD11	2:E:3186:LEU:HD23	1.83	0.60
2:E:4189:ARG:NH1	2:E:5032:TYR:OH	2.35	0.60
2:G:1451:GLY:HA3	2:G:1494:MET:HA	1.84	0.60
2:J:172:VAL:HG22	2:J:179:TYR:HE1	1.66	0.60
2:J:4189:ARG:NH1	2:J:5032:TYR:OH	2.35	0.60
3:M:51:ILE:HG12	3:M:71:ARG:NH2	2.17	0.60
2:B:747:CYS:SG	2:B:756:SER:HB2	2.41	0.60
2:E:233:ILE:HA	2:E:245:VAL:HG12	1.84	0.60
2:E:2437:ALA:HB3	2:E:2508:ARG:HG3	1.83	0.60
2:E:3410:PRO:O	2:E:3414:ARG:NH1	2.34	0.60
2:E:3713:LYS:HZ1	2:E:3716:LEU:HD12	1.67	0.60
2:G:1477:GLY:HA2	2:G:1483:VAL:HA	1.83	0.60
2:J:3312:LEU:HD11	2:J:3348:ARG:HB2	1.84	0.60
2:B:233:ILE:HA	2:B:245:VAL:HG12	1.84	0.60
2:J:233:ILE:HA	2:J:245:VAL:HG12	1.84	0.60
2:J:2881:ASN:HA	2:J:2884:ASN:ND2	2.17	0.60
3:C:51:ILE:HG12	3:C:71:ARG:NH2	2.17	0.60
3:K:4:LEU:HD21	3:K:97:ALA:HB2	1.83	0.60
2:B:985:VAL:HG22	2:B:1043:VAL:HG21	1.84	0.60
2:B:2715:VAL:HG11	2:B:2950:SER:HB2	1.84	0.60
2:G:2437:ALA:HB3	2:G:2508:ARG:HG3	1.83	0.60
3:M:4:LEU:HD21	3:M:97:ALA:HB2	1.83	0.60
2:B:937:CYS:HB3	2:B:1053:ILE:HB	1.84	0.59
2:B:1023:PRO:HD2	2:B:1026:LEU:HD12	1.84	0.59
2:B:1619:ARG:HA	2:B:1626:TRP:HA	1.83	0.59
2:E:3834:ALA:O	2:E:3838:THR:HG23	2.02	0.59
2:E:4978:HIS:ND1	2:E:4982:GLU:OE1	2.35	0.59
2:G:645:ARG:HE	2:G:824:GLU:HG3	1.67	0.59
2:G:747:CYS:SG	2:G:756:SER:HB2	2.41	0.59
2:G:2967:MET:HG3	2:G:3045:LYS:HD3	1.84	0.59
2:J:574:VAL:O	2:J:578:ILE:HG12	2.02	0.59
2:J:2967:MET:HG3	2:J:3045:LYS:HD3	1.84	0.59
3:F:51:ILE:HG12	3:F:71:ARG:NH2	2.17	0.59
2:E:277:GLY:HA2	2:E:315:CYS:HB2	1.84	0.59
2:E:985:VAL:HG22	2:E:1043:VAL:HG21	1.84	0.59
2:E:1979:LEU:HD23	2:E:1982:ARG:HH12	1.68	0.59
2:J:1154:ASP:OD2	2:J:1159:THR:OG1	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:172:VAL:HG22	2:B:179:TYR:HE1	1.66	0.59
2:B:1154:ASP:OD2	2:B:1159:THR:OG1	2.20	0.59
2:B:3256:LEU:HD22	2:B:3266:MET:HE2	1.83	0.59
2:E:3312:LEU:HD11	2:E:3348:ARG:HB2	1.84	0.59
2:G:1154:ASP:OD2	2:G:1159:THR:OG1	2.20	0.59
2:G:3410:PRO:O	2:G:3414:ARG:NH1	2.34	0.59
2:B:2437:ALA:HB3	2:B:2508:ARG:HG3	1.83	0.59
2:B:2881:ASN:HA	2:B:2884:ASN:ND2	2.17	0.59
2:B:3834:ALA:O	2:B:3838:THR:HG23	2.02	0.59
2:G:1023:PRO:HD2	2:G:1026:LEU:HD12	1.85	0.59
2:G:3312:LEU:HD11	2:G:3348:ARG:HB2	1.84	0.59
2:G:4189:ARG:NH1	2:G:5032:TYR:OH	2.35	0.59
2:E:940:GLY:O	2:E:1050:GLY:O	2.21	0.59
2:E:1154:ASP:OD2	2:E:1159:THR:OG1	2.20	0.59
2:E:3157:ILE:HG23	2:E:3161:VAL:HG12	1.85	0.59
2:G:246:TYR:CD1	2:G:375:LYS:HA	2.36	0.59
2:G:2578:MET:O	2:G:2582:MET:HG2	2.01	0.59
2:G:4953:ASP:HA	2:G:4956:THR:HG22	1.84	0.59
2:J:645:ARG:HE	2:J:824:GLU:HG3	1.67	0.59
2:J:1477:GLY:HA2	2:J:1483:VAL:HA	1.83	0.59
2:B:940:GLY:O	2:B:1050:GLY:O	2.21	0.59
2:B:4189:ARG:NH1	2:B:5032:TYR:OH	2.35	0.59
2:E:1257:VAL:HG13	2:E:1270:LEU:HD21	1.85	0.59
2:E:3110:LEU:HD13	2:E:3183:VAL:HG12	1.84	0.59
2:J:985:VAL:HG22	2:J:1043:VAL:HG21	1.84	0.59
2:J:2715:VAL:HG11	2:J:2950:SER:HB2	1.84	0.59
2:B:1477:GLY:HA2	2:B:1483:VAL:HA	1.83	0.59
2:B:2095:GLN:NE2	2:B:2127:GLN:O	2.36	0.59
2:B:3110:LEU:HD11	2:B:3186:LEU:HD23	1.83	0.59
2:E:2967:MET:HG3	2:E:3045:LYS:HD3	1.84	0.59
2:E:3256:LEU:HD22	2:E:3266:MET:HE2	1.85	0.59
2:G:172:VAL:HG22	2:G:179:TYR:CE1	2.38	0.59
2:J:2437:ALA:HB3	2:J:2508:ARG:HG3	1.83	0.59
2:J:3410:PRO:O	2:J:3414:ARG:NH1	2.34	0.59
2:B:277:GLY:HA2	2:B:315:CYS:HB2	1.84	0.59
2:B:1257:VAL:HG13	2:B:1270:LEU:HD21	1.85	0.59
2:E:1451:GLY:HA3	2:E:1494:MET:HA	1.84	0.59
2:G:277:GLY:HA2	2:G:315:CYS:HB2	1.84	0.59
2:J:3110:LEU:HD11	2:J:3186:LEU:HD23	1.83	0.59
2:B:1719:HIS:CD2	2:B:1800:PRO:HB2	2.38	0.59
2:E:2095:GLN:NE2	2:E:2127:GLN:O	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:597:HIS:HB3	2:G:1661:ARG:HH11	1.68	0.59
2:G:3043:PHE:HD1	2:G:3071:LEU:HB3	1.68	0.59
2:G:3157:ILE:HG23	2:G:3161:VAL:HG12	1.85	0.59
3:C:12:MET:HB3	3:C:18:LEU:HD11	1.85	0.59
3:K:51:ILE:HG12	3:K:71:ARG:NH2	2.17	0.59
2:B:635:THR:HB	2:B:1637:MET:SD	2.43	0.59
2:B:1871:PHE:HZ	2:B:2094:LEU:HD13	1.68	0.59
2:B:1979:LEU:HD23	2:B:1982:ARG:HH12	1.67	0.59
2:B:3157:ILE:HG23	2:B:3161:VAL:HG12	1.85	0.59
2:G:635:THR:HB	2:G:1637:MET:SD	2.43	0.59
2:G:985:VAL:HG22	2:G:1043:VAL:HG21	1.84	0.59
2:G:2095:GLN:NE2	2:G:2127:GLN:O	2.36	0.59
2:J:1979:LEU:HD23	2:J:1982:ARG:HH12	1.67	0.59
2:J:2095:GLN:NE2	2:J:2127:GLN:O	2.36	0.59
2:J:3043:PHE:HD1	2:J:3071:LEU:HB3	1.68	0.59
2:B:574:VAL:O	2:B:578:ILE:HG12	2.02	0.58
2:E:635:THR:HB	2:E:1637:MET:SD	2.43	0.58
2:J:597:HIS:HB3	2:J:1661:ARG:HH11	1.68	0.58
2:J:635:THR:HB	2:J:1637:MET:SD	2.43	0.58
2:J:1451:GLY:HA3	2:J:1494:MET:HA	1.84	0.58
2:J:2013:LYS:NZ	2:J:3664:THR:OG1	2.34	0.58
2:J:3110:LEU:HD13	2:J:3183:VAL:HG12	1.84	0.58
2:J:3157:ILE:HG23	2:J:3161:VAL:HG12	1.85	0.58
2:B:3110:LEU:HD13	2:B:3183:VAL:HG12	1.84	0.58
2:E:1269:CYS:HB3	2:E:1565:GLU:HG3	1.85	0.58
2:G:574:VAL:O	2:G:578:ILE:HG12	2.02	0.58
2:G:1260:MET:N	2:G:1260:MET:SD	2.76	0.58
2:G:1719:HIS:CD2	2:G:1800:PRO:HB2	2.38	0.58
2:J:277:GLY:HA2	2:J:315:CYS:HB2	1.85	0.58
2:J:1260:MET:N	2:J:1260:MET:SD	2.76	0.58
2:B:2321:ILE:HD13	2:B:2422:ILE:HD11	1.85	0.58
2:E:937:CYS:HB3	2:E:1053:ILE:HB	1.84	0.58
2:G:2321:ILE:HD13	2:G:2422:ILE:HD11	1.86	0.58
2:J:1269:CYS:HB3	2:J:1565:GLU:HG3	1.85	0.58
2:B:929:LEU:HA	2:B:932:LEU:HD12	1.85	0.58
2:E:1023:PRO:HD2	2:E:1026:LEU:HD12	1.85	0.58
2:G:248:GLU:HA	2:G:373:LYS:HA	1.85	0.58
2:G:2715:VAL:HG11	2:G:2950:SER:HB2	1.84	0.58
2:J:940:GLY:O	2:J:1050:GLY:O	2.21	0.58
2:J:3965:LEU:HA	2:J:3968:TYR:CD2	2.37	0.58
3:F:12:MET:HB3	3:F:18:LEU:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:12:MET:HB3	3:M:18:LEU:HD11	1.85	0.58
2:B:3768:SER:HA	2:B:3771:HIS:CD2	2.39	0.58
2:G:2175:GLU:HA	2:G:2178:MET:HE2	1.86	0.58
2:G:3110:LEU:HD13	2:G:3183:VAL:HG12	1.84	0.58
1:A:68:LEU:HD21	1:A:106:LEU:H	1.69	0.58
1:H:68:LEU:HD21	1:H:106:LEU:H	1.69	0.58
2:B:162:LYS:NZ	2:E:3984:ARG:HH12	2.02	0.58
2:B:600:LEU:HD11	2:B:1662:PHE:CE1	2.38	0.58
2:B:1260:MET:N	2:B:1260:MET:SD	2.76	0.58
2:E:600:LEU:HD11	2:E:1662:PHE:CE1	2.38	0.58
2:E:1260:MET:SD	2:E:1260:MET:N	2.76	0.58
2:E:1719:HIS:CD2	2:E:1800:PRO:HB2	2.38	0.58
2:E:3043:PHE:HD1	2:E:3071:LEU:HB3	1.68	0.58
2:G:600:LEU:HD11	2:G:1662:PHE:CE1	2.38	0.58
2:G:3768:SER:HA	2:G:3771:HIS:CD2	2.38	0.58
2:J:1023:PRO:HD2	2:J:1026:LEU:HD12	1.85	0.58
2:J:1041:GLN:OE1	2:J:1044:ARG:NH1	2.37	0.58
2:J:1871:PHE:HZ	2:J:2094:LEU:HD13	1.68	0.58
2:J:2247:GLN:HG3	2:J:2279:SER:HA	1.85	0.58
3:K:12:MET:HB3	3:K:18:LEU:HD11	1.85	0.58
1:D:49:ARG:HD2	1:D:52:LYS:HE3	1.86	0.58
2:B:223:PHE:O	2:B:388:LEU:HB2	2.04	0.58
2:B:597:HIS:HB3	2:B:1661:ARG:HH11	1.68	0.58
2:B:3041:SER:O	2:B:3045:LYS:HG3	2.04	0.58
2:B:4978:HIS:ND1	2:B:4982:GLU:OE1	2.35	0.58
2:E:223:PHE:O	2:E:388:LEU:HB2	2.04	0.58
2:E:2354:VAL:HG11	2:E:2453:ILE:HD12	1.86	0.58
2:G:937:CYS:HB3	2:G:1053:ILE:HB	1.84	0.58
2:G:940:GLY:O	2:G:1050:GLY:O	2.21	0.58
2:G:3834:ALA:O	2:G:3838:THR:HG23	2.02	0.58
2:J:1257:VAL:HG13	2:J:1270:LEU:HD21	1.85	0.58
2:J:2354:VAL:HG11	2:J:2453:ILE:HD12	1.86	0.58
2:J:2710:LEU:HD12	2:J:2711:PRO:HD2	1.86	0.58
2:J:3674:ILE:HG13	2:J:3732:SER:HB2	1.86	0.58
2:J:4953:ASP:HA	2:J:4956:THR:HG22	1.84	0.58
3:M:105:ASN:ND2	3:M:111:ASN:HB2	2.15	0.58
2:E:162:LYS:NZ	2:J:3984:ARG:HH12	2.02	0.58
2:E:2247:GLN:HG3	2:E:2279:SER:HA	1.85	0.58
2:E:3768:SER:HA	2:E:3771:HIS:CD2	2.39	0.58
2:G:2261:SER:HB2	2:G:2273:LEU:HD22	1.86	0.58
2:G:3256:LEU:HD22	2:G:3266:MET:HE2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3514:LEU:HD21	2:G:3602:VAL:HG11	1.85	0.58
2:J:2273:LEU:HG	2:J:2334:PHE:CZ	2.39	0.58
1:I:49:ARG:HD2	1:I:52:LYS:HE3	1.86	0.58
2:B:1041:GLN:OE1	2:B:1044:ARG:NH1	2.37	0.58
2:B:1269:CYS:HB3	2:B:1565:GLU:HG3	1.85	0.58
2:B:2273:LEU:HG	2:B:2334:PHE:CZ	2.39	0.58
2:B:4953:ASP:HA	2:B:4956:THR:HG22	1.85	0.58
2:E:2710:LEU:HD12	2:E:2711:PRO:HD2	1.86	0.58
2:E:3674:ILE:HG13	2:E:3732:SER:HB2	1.86	0.58
2:G:246:TYR:HD1	2:G:375:LYS:HA	1.69	0.58
2:G:1979:LEU:HD23	2:G:1982:ARG:HH12	1.67	0.58
2:G:2291:GLN:HG2	2:G:2293:GLN:HG2	1.86	0.58
2:G:3041:SER:O	2:G:3045:LYS:HG3	2.04	0.58
2:G:4949:GLN:HA	2:G:4952:GLU:HG3	1.86	0.58
2:J:469:ARG:O	2:J:473:ASN:ND2	2.37	0.58
2:J:1005:TRP:HB3	2:J:1021:LEU:HD22	1.86	0.58
2:B:469:ARG:O	2:B:473:ASN:ND2	2.37	0.58
2:B:657:THR:HB	2:B:1007:TYR:H	1.69	0.58
2:B:2107:GLN:NE2	2:B:3679:LYS:O	2.37	0.58
2:B:3312:LEU:HD11	2:B:3348:ARG:HB2	1.84	0.58
2:B:3514:LEU:HD21	2:B:3602:VAL:HG11	1.85	0.58
2:E:657:THR:HB	2:E:1007:TYR:H	1.69	0.58
2:E:668:VAL:HG22	2:E:789:VAL:HG12	1.85	0.58
2:E:929:LEU:HA	2:E:932:LEU:HD12	1.85	0.58
2:E:3245:VAL:HG12	2:E:3248:ARG:HE	1.69	0.58
2:G:223:PHE:O	2:G:388:LEU:HB2	2.04	0.58
2:G:1257:VAL:HG13	2:G:1270:LEU:HD21	1.85	0.58
2:G:2175:GLU:O	2:G:2179:ILE:HG12	2.03	0.58
2:G:3937:TYR:O	2:G:4002:LYS:NZ	2.37	0.58
2:J:668:VAL:HG22	2:J:789:VAL:HG12	1.85	0.58
2:J:2420:HIS:HA	2:J:2423:MET:HG2	1.86	0.58
3:M:66:ARG:HD2	3:M:83:ASN:HB3	1.86	0.58
2:B:668:VAL:HG22	2:B:789:VAL:HG12	1.85	0.57
2:B:2354:VAL:HG11	2:B:2453:ILE:HD12	1.86	0.57
2:E:172:VAL:HG22	2:E:179:TYR:CE1	2.38	0.57
2:E:1871:PHE:HZ	2:E:2094:LEU:HD13	1.68	0.57
2:G:1871:PHE:HZ	2:G:2094:LEU:HD13	1.68	0.57
2:G:3984:ARG:HH12	2:J:162:LYS:NZ	2.01	0.57
2:J:1719:HIS:CD2	2:J:1800:PRO:HB2	2.38	0.57
2:J:3834:ALA:O	2:J:3838:THR:HG23	2.02	0.57
2:J:3937:TYR:O	2:J:4002:LYS:NZ	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:K:105:ASN:ND2	3:K:111:ASN:HB2	2.16	0.57
2:B:3713:LYS:HZ1	2:B:3716:LEU:HD12	1.69	0.57
2:E:645:ARG:HE	2:E:824:GLU:HG3	1.67	0.57
2:E:2420:HIS:HA	2:E:2423:MET:HG2	1.86	0.57
2:E:3041:SER:O	2:E:3045:LYS:HG3	2.04	0.57
2:G:1005:TRP:HB3	2:G:1021:LEU:HD22	1.86	0.57
2:G:1269:CYS:HB3	2:G:1565:GLU:HG3	1.85	0.57
2:G:2354:VAL:HG11	2:G:2453:ILE:HD12	1.86	0.57
2:G:3866:ILE:HD13	2:G:3868:ARG:HE	1.69	0.57
2:J:172:VAL:HG22	2:J:179:TYR:CE1	2.38	0.57
2:J:3245:VAL:HG12	2:J:3248:ARG:HE	1.69	0.57
1:I:68:LEU:HD21	1:I:106:LEU:H	1.69	0.57
2:B:1005:TRP:HB3	2:B:1021:LEU:HD22	1.86	0.57
2:B:2247:GLN:HG3	2:B:2279:SER:HA	1.85	0.57
2:B:3043:PHE:HD1	2:B:3071:LEU:HB3	1.68	0.57
2:B:3172:ILE:HD13	2:B:3194:LEU:HB2	1.86	0.57
2:E:2107:GLN:NE2	2:E:3679:LYS:O	2.37	0.57
2:E:3512:ALA:HA	2:E:3516:LYS:HG2	1.87	0.57
2:G:668:VAL:HG22	2:G:789:VAL:HG12	1.85	0.57
2:J:2175:GLU:O	2:J:2179:ILE:HG12	2.03	0.57
2:J:2623:LEU:O	2:J:2627:VAL:HG23	2.04	0.57
2:B:2261:SER:HB2	2:B:2273:LEU:HD22	1.86	0.57
2:B:3036:LYS:HD2	2:B:3079:THR:HG21	1.86	0.57
2:B:4949:GLN:HA	2:B:4952:GLU:HG3	1.86	0.57
2:E:248:GLU:CB	2:E:373:LYS:HD2	2.30	0.57
2:E:1455:PRO:HG3	2:E:1549:PHE:HE1	1.69	0.57
2:E:3937:TYR:O	2:E:4002:LYS:NZ	2.37	0.57
2:G:2623:LEU:O	2:G:2627:VAL:HG23	2.04	0.57
2:J:3768:SER:HA	2:J:3771:HIS:CD2	2.39	0.57
3:C:66:ARG:HD2	3:C:83:ASN:HB3	1.86	0.57
2:B:870:ILE:HD11	2:B:1049:TYR:HB3	1.87	0.57
2:B:1455:PRO:HG3	2:B:1549:PHE:HE1	1.69	0.57
2:B:1727:ARG:O	2:B:1731:LEU:HG	2.05	0.57
2:B:3245:VAL:HG12	2:B:3248:ARG:HE	1.69	0.57
2:E:2175:GLU:O	2:E:2179:ILE:HG12	2.03	0.57
2:E:3036:LYS:HD2	2:E:3079:THR:HG21	1.86	0.57
2:G:929:LEU:HA	2:G:932:LEU:HD12	1.85	0.57
2:G:3674:ILE:HG13	2:G:3732:SER:HB2	1.86	0.57
2:J:293:LEU:HD13	2:J:378:LEU:HD12	1.86	0.57
2:J:3866:ILE:HD13	2:J:3868:ARG:HE	1.69	0.57
2:B:2175:GLU:O	2:B:2179:ILE:HG12	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2710:LEU:HD12	2:B:2711:PRO:HD2	1.86	0.57
2:E:1041:GLN:OE1	2:E:1044:ARG:NH1	2.37	0.57
2:G:1041:GLN:OE1	2:G:1044:ARG:NH1	2.37	0.57
2:J:3041:SER:O	2:J:3045:LYS:HG3	2.04	0.57
2:J:3512:ALA:HA	2:J:3516:LYS:HG2	1.87	0.57
2:J:4949:GLN:HA	2:J:4952:GLU:HG3	1.86	0.57
1:A:49:ARG:HD2	1:A:52:LYS:HE3	1.86	0.57
1:D:68:LEU:HD21	1:D:106:LEU:H	1.69	0.57
1:H:49:ARG:HD2	1:H:52:LYS:HE3	1.86	0.57
2:B:2291:GLN:HG2	2:B:2293:GLN:HG2	1.86	0.57
2:B:3984:ARG:HH12	2:G:162:LYS:NZ	2.02	0.57
2:E:2273:LEU:HG	2:E:2334:PHE:CZ	2.39	0.57
2:E:2321:ILE:HD13	2:E:2422:ILE:HD11	1.85	0.57
2:E:3514:LEU:HD21	2:E:3602:VAL:HG11	1.85	0.57
2:G:2258:LEU:HD23	2:G:2297:LYS:HE3	1.87	0.57
2:G:2420:HIS:HA	2:G:2423:MET:HG2	1.86	0.57
2:G:2710:LEU:HD12	2:G:2711:PRO:HD2	1.86	0.57
2:G:3512:ALA:HA	2:G:3516:LYS:HG2	1.87	0.57
2:J:280:LEU:HD21	2:J:316:PHE:HE2	1.70	0.57
2:J:929:LEU:HA	2:J:932:LEU:HD12	1.85	0.57
2:J:937:CYS:HB3	2:J:1053:ILE:HB	1.84	0.57
2:J:2261:SER:HB2	2:J:2273:LEU:HD22	1.86	0.57
2:B:172:VAL:HG22	2:B:179:TYR:CE1	2.38	0.57
2:E:469:ARG:O	2:E:473:ASN:ND2	2.37	0.57
2:G:2273:LEU:HG	2:G:2334:PHE:CZ	2.39	0.57
2:G:3245:VAL:HG12	2:G:3248:ARG:HE	1.69	0.57
2:J:600:LEU:HD11	2:J:1662:PHE:CE1	2.38	0.57
2:J:3172:ILE:HD13	2:J:3194:LEU:HB2	1.86	0.57
2:E:597:HIS:HB3	2:E:1661:ARG:HH11	1.68	0.57
2:E:618:GLN:NE2	2:E:1672:ALA:O	2.38	0.57
2:E:1727:ARG:O	2:E:1731:LEU:HG	2.05	0.57
2:E:2013:LYS:NZ	2:E:3664:THR:OG1	2.34	0.57
2:G:280:LEU:HD21	2:G:316:PHE:HE2	1.70	0.57
2:G:657:THR:HB	2:G:1007:TYR:H	1.69	0.57
2:J:657:THR:HB	2:J:1007:TYR:H	1.69	0.57
2:J:2321:ILE:HD13	2:J:2422:ILE:HD11	1.85	0.57
2:J:3514:LEU:HD21	2:J:3602:VAL:HG11	1.85	0.57
1:H:78:PRO:HA	1:H:81:ALA:HB3	1.87	0.57
2:E:4953:ASP:HA	2:E:4956:THR:HG22	1.84	0.57
2:G:2122:SER:HA	2:G:2125:HIS:ND1	2.20	0.57
2:G:2470:ILE:HG22	2:G:2525:GLY:HA3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2107:GLN:NE2	2:J:3679:LYS:O	2.37	0.57
3:M:51:ILE:O	3:M:71:ARG:NH2	2.35	0.57
2:B:293:LEU:HD13	2:B:378:LEU:HD12	1.86	0.56
2:B:2623:LEU:O	2:B:2627:VAL:HG23	2.05	0.56
2:B:3674:ILE:HG13	2:B:3732:SER:HB2	1.86	0.56
2:E:1005:TRP:HB3	2:E:1021:LEU:HD22	1.86	0.56
2:E:2623:LEU:O	2:E:2627:VAL:HG23	2.05	0.56
2:E:3843:ASP:H	2:E:3874:VAL:CG2	2.18	0.56
2:G:1727:ARG:O	2:G:1731:LEU:HG	2.05	0.56
2:G:3767:GLN:HE22	2:G:3806:ASN:HB2	1.70	0.56
2:G:3843:ASP:H	2:G:3874:VAL:CG2	2.18	0.56
2:J:2122:SER:HA	2:J:2125:HIS:ND1	2.20	0.56
2:J:2291:GLN:HG2	2:J:2293:GLN:HG2	1.86	0.56
3:K:51:ILE:O	3:K:71:ARG:NH2	2.35	0.56
2:B:3512:ALA:HA	2:B:3516:LYS:HG2	1.87	0.56
2:E:2470:ILE:HG22	2:E:2525:GLY:HA3	1.87	0.56
2:E:4679:ARG:NH1	2:E:4715:TYR:OH	2.38	0.56
2:G:870:ILE:HD11	2:G:1049:TYR:HB3	1.87	0.56
2:G:2107:GLN:NE2	2:G:3679:LYS:O	2.37	0.56
2:B:280:LEU:HD21	2:B:316:PHE:HE2	1.70	0.56
2:B:618:GLN:NE2	2:B:1672:ALA:O	2.38	0.56
2:B:1159:THR:HA	2:B:1180:ARG:HA	1.86	0.56
2:B:3524:MET:HA	2:B:3582:ARG:HH12	1.71	0.56
2:E:3866:ILE:HD13	2:E:3868:ARG:HE	1.69	0.56
2:E:4949:GLN:HA	2:E:4952:GLU:HG3	1.86	0.56
2:G:469:ARG:O	2:G:473:ASN:ND2	2.37	0.56
2:G:4978:HIS:ND1	2:G:4982:GLU:OE1	2.35	0.56
2:J:870:ILE:HD11	2:J:1049:TYR:HB3	1.87	0.56
2:J:2258:LEU:HD23	2:J:2297:LYS:HE3	1.87	0.56
2:J:3036:LYS:HD2	2:J:3079:THR:HG21	1.86	0.56
2:J:4978:HIS:ND1	2:J:4982:GLU:OE1	2.35	0.56
3:C:51:ILE:O	3:C:71:ARG:NH2	2.35	0.56
3:K:66:ARG:HD2	3:K:83:ASN:HB3	1.86	0.56
2:B:638:ILE:HG21	2:B:702:TRP:HE1	1.70	0.56
2:B:2470:ILE:HG22	2:B:2525:GLY:HA3	1.87	0.56
2:B:3866:ILE:HD13	2:B:3868:ARG:HE	1.69	0.56
2:E:280:LEU:HD21	2:E:316:PHE:HE2	1.70	0.56
2:E:2122:SER:HA	2:E:2125:HIS:ND1	2.20	0.56
2:E:3172:ILE:HD13	2:E:3194:LEU:HB2	1.86	0.56
2:G:618:GLN:NE2	2:G:1672:ALA:O	2.38	0.56
2:G:2247:GLN:HG3	2:G:2279:SER:HA	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:68:LEU:HG	1:H:103:LEU:HG	1.88	0.56
2:E:638:ILE:HG21	2:E:702:TRP:HE1	1.70	0.56
2:G:638:ILE:HG21	2:G:702:TRP:HE1	1.70	0.56
2:G:2013:LYS:NZ	2:G:3664:THR:OG1	2.34	0.56
2:J:223:PHE:O	2:J:388:LEU:HB2	2.04	0.56
2:J:1159:THR:HA	2:J:1180:ARG:HA	1.86	0.56
2:J:1455:PRO:HG3	2:J:1549:PHE:HE1	1.69	0.56
2:J:4147:LEU:HD21	2:J:4164:LEU:HA	1.88	0.56
2:J:4679:ARG:NH1	2:J:4715:TYR:OH	2.38	0.56
2:B:2258:LEU:HD23	2:B:2297:LYS:HE3	1.87	0.56
2:B:3843:ASP:H	2:B:3874:VAL:CG2	2.18	0.56
2:E:1159:THR:HA	2:E:1180:ARG:HA	1.86	0.56
2:G:293:LEU:HD13	2:G:378:LEU:HD12	1.86	0.56
2:G:3172:ILE:HD13	2:G:3194:LEU:HB2	1.86	0.56
2:G:3986:TRP:HE1	2:G:4047:MET:HB3	1.70	0.56
2:J:497:TYR:HB2	2:J:503:PHE:CZ	2.41	0.56
2:J:3843:ASP:H	2:J:3874:VAL:CG2	2.18	0.56
2:B:1005:TRP:HE1	2:B:1016:ARG:HH21	1.53	0.56
2:B:2420:HIS:HA	2:B:2423:MET:HG2	1.86	0.56
2:B:3036:LYS:HD3	2:B:3076:ASP:HB3	1.88	0.56
2:B:4147:LEU:HD21	2:B:4164:LEU:HA	1.88	0.56
2:E:497:TYR:HB2	2:E:503:PHE:CZ	2.41	0.56
2:E:783:PHE:HB2	2:E:787:VAL:HG21	1.88	0.56
2:G:372:LEU:O	2:G:374:LYS:HG3	2.05	0.56
2:B:2677:LYS:HE3	2:B:2909:ASP:HB2	1.87	0.56
2:B:3767:GLN:HE22	2:B:3806:ASN:HB2	1.70	0.56
2:B:4679:ARG:NH1	2:B:4715:TYR:OH	2.38	0.56
2:E:2291:GLN:HG2	2:E:2293:GLN:HG2	1.86	0.56
2:E:2423:MET:HE3	2:E:2494:PHE:CD2	2.41	0.56
2:G:1455:PRO:HG3	2:G:1549:PHE:HE1	1.69	0.56
2:J:3767:GLN:HE22	2:J:3806:ASN:HB2	1.70	0.56
3:C:38:ARG:HB3	3:C:93:TYR:CD1	2.41	0.56
3:M:47:LEU:O	3:M:62:SER:OG	2.24	0.56
2:B:497:TYR:HB2	2:B:503:PHE:CZ	2.41	0.56
2:B:3937:TYR:O	2:B:4002:LYS:NZ	2.37	0.56
2:E:2261:SER:HB2	2:E:2273:LEU:HD22	1.86	0.56
2:J:2470:ILE:HG22	2:J:2525:GLY:HA3	1.86	0.56
2:J:2677:LYS:HE3	2:J:2909:ASP:HB2	1.87	0.56
2:J:3036:LYS:HD3	2:J:3076:ASP:HB3	1.88	0.56
3:F:66:ARG:HD2	3:F:83:ASN:HB3	1.86	0.56
2:B:2794:TYR:HA	2:B:2797:PHE:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3590:GLU:O	2:B:3594:ARG:HG2	2.06	0.56
2:E:1005:TRP:HE1	2:E:1016:ARG:HH21	1.53	0.56
2:G:4679:ARG:NH1	2:G:4715:TYR:OH	2.38	0.56
2:J:618:GLN:NE2	2:J:1672:ALA:O	2.38	0.56
1:I:68:LEU:HG	1:I:103:LEU:HG	1.88	0.55
2:E:293:LEU:HD13	2:E:378:LEU:HD12	1.86	0.55
2:E:2258:LEU:HD23	2:E:2297:LYS:HE3	1.87	0.55
2:E:3524:MET:HA	2:E:3582:ARG:HH12	1.71	0.55
2:E:5004:THR:HG22	2:E:5007:GLU:HG2	1.88	0.55
2:G:232:THR:HG22	2:G:258:SER:HB3	1.88	0.55
2:G:1159:THR:HA	2:G:1180:ARG:HA	1.86	0.55
2:G:3524:MET:HA	2:G:3582:ARG:HH12	1.71	0.55
2:J:232:THR:HG22	2:J:258:SER:HB3	1.88	0.55
2:J:3245:VAL:HG12	2:J:3248:ARG:NE	2.21	0.55
1:A:78:PRO:HA	1:A:81:ALA:HB3	1.87	0.55
2:E:3397:GLU:HA	2:E:3400:VAL:HG12	1.88	0.55
2:G:636:ASN:HB3	2:G:702:TRP:HZ2	1.72	0.55
2:G:783:PHE:HB2	2:G:787:VAL:HG21	1.88	0.55
2:G:2724:GLU:HG3	2:G:2725:LYS:HG3	1.88	0.55
2:G:2794:TYR:HA	2:G:2797:PHE:HB3	1.88	0.55
2:G:3036:LYS:HD2	2:G:3079:THR:HG21	1.86	0.55
2:G:3904:ARG:NH1	2:G:3976:ASN:OD1	2.33	0.55
2:G:4147:LEU:HD21	2:G:4164:LEU:HA	1.88	0.55
2:J:2794:TYR:HA	2:J:2797:PHE:HB3	1.89	0.55
2:J:3805:LEU:HB3	2:J:3890:LEU:HD21	1.88	0.55
3:F:38:ARG:HB3	3:F:93:TYR:CD1	2.41	0.55
3:M:38:ARG:HB3	3:M:93:TYR:CD1	2.41	0.55
1:I:78:PRO:HA	1:I:81:ALA:HB3	1.87	0.55
2:E:360:ALA:HA	2:E:377:ILE:HD13	1.87	0.55
2:E:2794:TYR:HA	2:E:2797:PHE:HB3	1.89	0.55
2:E:3093:ARG:O	2:E:3097:GLU:HG2	2.07	0.55
2:G:103:TYR:HB2	2:G:160:GLY:H	1.72	0.55
2:G:1032:LYS:HB3	2:G:1036:ARG:HH22	1.71	0.55
2:J:1727:ARG:O	2:J:1731:LEU:HG	2.05	0.55
2:J:1740:PRO:HA	2:J:1743:ARG:HG2	1.89	0.55
2:B:636:ASN:HB3	2:B:702:TRP:HZ2	1.72	0.55
2:B:2585:THR:HA	2:B:2588:ARG:HD3	1.88	0.55
2:E:3843:ASP:H	2:E:3874:VAL:HG23	1.71	0.55
2:E:3904:ARG:NH1	2:E:3976:ASN:OD1	2.33	0.55
2:G:2677:LYS:HE3	2:G:2909:ASP:HB2	1.87	0.55
2:G:3093:ARG:O	2:G:3097:GLU:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4211:LYS:NZ	5:G:5102:ATP:O3G	2.39	0.55
2:G:4241:THR:O	2:G:4245:MET:HG2	2.07	0.55
2:J:1005:TRP:HE1	2:J:1016:ARG:HH21	1.53	0.55
2:J:3397:GLU:HA	2:J:3400:VAL:HG12	1.89	0.55
2:J:3843:ASP:H	2:J:3874:VAL:HG23	1.71	0.55
2:J:3986:TRP:HE1	2:J:4047:MET:HB3	1.71	0.55
1:D:68:LEU:HG	1:D:103:LEU:HG	1.88	0.55
2:B:2122:SER:O	2:B:2125:HIS:ND1	2.40	0.55
2:B:2122:SER:HA	2:B:2125:HIS:ND1	2.20	0.55
2:B:3397:GLU:HA	2:B:3400:VAL:HG12	1.89	0.55
2:E:3036:LYS:HD3	2:E:3076:ASP:HB3	1.88	0.55
2:E:3590:GLU:O	2:E:3594:ARG:HG2	2.07	0.55
2:G:497:TYR:HB2	2:G:503:PHE:CZ	2.41	0.55
2:G:897:ARG:HD3	2:G:905:PRO:HD3	1.88	0.55
2:G:1740:PRO:HA	2:G:1743:ARG:HG2	1.89	0.55
2:G:3196:ARG:NH1	2:G:3196:ARG:HA	2.22	0.55
3:F:47:LEU:O	3:F:62:SER:OG	2.24	0.55
3:F:105:ASN:ND2	3:F:111:ASN:HB2	2.16	0.55
3:K:38:ARG:HB3	3:K:93:TYR:CD1	2.41	0.55
1:A:35:LYS:HE2	2:B:636:ASN:ND2	2.21	0.55
2:B:2724:GLU:HG3	2:B:2725:LYS:HG3	1.88	0.55
2:B:3093:ARG:O	2:B:3097:GLU:HG2	2.07	0.55
2:E:647:ASN:HD22	2:E:822:ARG:HG2	1.71	0.55
2:E:870:ILE:HD11	2:E:1049:TYR:HB3	1.87	0.55
2:E:897:ARG:HD3	2:E:905:PRO:HD3	1.88	0.55
2:E:3805:LEU:HB3	2:E:3890:LEU:HD21	1.88	0.55
2:G:2122:SER:O	2:G:2125:HIS:ND1	2.40	0.55
2:G:3036:LYS:HD3	2:G:3076:ASP:HB3	1.88	0.55
2:J:103:TYR:HB2	2:J:160:GLY:H	1.72	0.55
2:J:4241:THR:O	2:J:4245:MET:HG2	2.07	0.55
3:C:47:LEU:O	3:C:62:SER:OG	2.24	0.55
2:B:360:ALA:HA	2:B:377:ILE:HD13	1.88	0.55
2:B:1849:LEU:HG	2:B:1945:TYR:CE1	2.42	0.55
2:B:4241:THR:O	2:B:4245:MET:HG2	2.07	0.55
2:J:3256:LEU:HD22	2:J:3266:MET:HE2	1.88	0.55
2:J:3349:ALA:HB1	2:J:3353:LEU:HD22	1.89	0.55
2:B:3196:ARG:NH1	2:B:3196:ARG:HA	2.22	0.55
2:E:2711:PRO:HG2	2:E:2714:TYR:HB2	1.89	0.55
2:E:3196:ARG:NH1	2:E:3196:ARG:HA	2.22	0.55
2:E:3245:VAL:HG12	2:E:3248:ARG:NE	2.21	0.55
2:E:4241:THR:O	2:E:4245:MET:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2754:PHE:HE2	2:G:2813:LEU:HD11	1.72	0.55
2:G:3843:ASP:H	2:G:3874:VAL:HG23	1.71	0.55
2:J:636:ASN:HB3	2:J:702:TRP:HZ2	1.72	0.55
2:J:1032:LYS:HB3	2:J:1036:ARG:HH22	1.71	0.55
2:J:1518:CYS:HB3	2:J:1527:MET:HE1	1.89	0.55
2:J:3416:VAL:HG23	2:J:3423:TRP:HZ3	1.72	0.55
2:J:3961:VAL:O	2:J:3965:LEU:HG	2.06	0.55
3:C:111:ASN:O	3:C:114:TYR:HB2	2.07	0.55
3:F:111:ASN:O	3:F:114:TYR:HB2	2.07	0.55
3:K:47:LEU:O	3:K:62:SER:OG	2.24	0.55
2:B:783:PHE:HB2	2:B:787:VAL:HG21	1.88	0.55
2:B:2754:PHE:HE2	2:B:2813:LEU:HD11	1.72	0.55
2:B:3904:ARG:NH1	2:B:3976:ASN:OD1	2.33	0.55
2:B:3986:TRP:HE1	2:B:4047:MET:HB3	1.70	0.55
2:G:3805:LEU:HB3	2:G:3890:LEU:HD21	1.88	0.55
3:C:72:ASP:OD1	3:C:77:THR:OG1	2.25	0.55
2:B:2013:LYS:NZ	2:B:3664:THR:OG1	2.34	0.55
2:B:3843:ASP:H	2:B:3874:VAL:HG23	1.71	0.55
2:E:1849:LEU:HG	2:E:1945:TYR:CE1	2.42	0.55
2:E:2544:THR:HG22	2:E:2546:MET:H	1.72	0.55
2:G:3590:GLU:O	2:G:3594:ARG:HG2	2.07	0.55
2:J:647:ASN:HD22	2:J:822:ARG:HG2	1.71	0.55
2:J:2175:GLU:HA	2:J:2178:MET:HE2	1.89	0.55
2:J:5004:THR:HG22	2:J:5007:GLU:HG2	1.88	0.55
3:C:6:GLU:HG3	3:C:121:THR:HG23	1.88	0.55
3:C:34:MET:HE3	3:C:35:GLY:O	2.07	0.55
2:B:232:THR:HG22	2:B:258:SER:HB3	1.88	0.54
2:B:2544:THR:HG22	2:B:2546:MET:H	1.72	0.54
2:B:2711:PRO:HG2	2:B:2714:TYR:HB2	1.89	0.54
2:B:3416:VAL:HG23	2:B:3423:TRP:HZ3	1.72	0.54
2:E:103:TYR:HB2	2:E:160:GLY:H	1.72	0.54
2:E:316:PHE:HB3	2:E:346:CYS:HB2	1.90	0.54
2:E:2724:GLU:HG3	2:E:2725:LYS:HG3	1.88	0.54
2:E:3416:VAL:HG23	2:E:3423:TRP:HZ3	1.72	0.54
2:E:4147:LEU:HD21	2:E:4164:LEU:HA	1.88	0.54
2:G:1849:LEU:HG	2:G:1945:TYR:CE1	2.42	0.54
2:J:897:ARG:HD3	2:J:905:PRO:HD3	1.88	0.54
2:J:2585:THR:HA	2:J:2588:ARG:HD3	1.88	0.54
2:J:3196:ARG:NH1	2:J:3196:ARG:HA	2.22	0.54
3:K:34:MET:HE3	3:K:35:GLY:O	2.07	0.54
1:D:78:PRO:HA	1:D:81:ALA:HB3	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:365:LYS:HE2	2:B:369:LEU:HD11	1.89	0.54
2:B:647:ASN:HD22	2:B:822:ARG:HG2	1.71	0.54
2:B:3245:VAL:HG12	2:B:3248:ARG:NE	2.21	0.54
2:E:2677:LYS:HE3	2:E:2909:ASP:HB2	1.87	0.54
2:E:3986:TRP:HE1	2:E:4047:MET:HB3	1.70	0.54
2:G:2599:GLN:O	2:G:2603:ILE:HG12	2.07	0.54
2:G:3189:ALA:O	2:G:3192:GLU:HG2	2.07	0.54
2:G:3245:VAL:HG12	2:G:3248:ARG:NE	2.21	0.54
2:J:638:ILE:HG21	2:J:702:TRP:HE1	1.71	0.54
2:J:3107:VAL:HA	2:J:3175:LEU:HD21	1.89	0.54
2:J:3590:GLU:O	2:J:3594:ARG:HG2	2.07	0.54
3:C:71:ARG:HD2	3:C:72:ASP:N	2.23	0.54
2:B:897:ARG:HD3	2:B:905:PRO:HD3	1.88	0.54
2:B:1032:LYS:HB3	2:B:1036:ARG:HH22	1.71	0.54
2:B:2863:SER:HA	2:B:2928:LYS:HG3	1.90	0.54
2:B:3107:VAL:HA	2:B:3175:LEU:HD21	1.89	0.54
2:E:2122:SER:O	2:E:2125:HIS:ND1	2.40	0.54
2:E:2585:THR:HA	2:E:2588:ARG:HD3	1.89	0.54
2:E:3349:ALA:HB1	2:E:3353:LEU:HD22	1.89	0.54
3:K:6:GLU:HG3	3:K:121:THR:HG23	1.88	0.54
2:B:2599:GLN:O	2:B:2603:ILE:HG12	2.07	0.54
2:B:3805:LEU:HB3	2:B:3890:LEU:HD21	1.88	0.54
2:E:365:LYS:HE2	2:E:369:LEU:HD11	1.88	0.54
2:E:636:ASN:HB3	2:E:702:TRP:HZ2	1.72	0.54
2:E:2189:LYS:HA	2:E:2192:TYR:CZ	2.43	0.54
2:E:2685:SER:HA	2:E:2688:HIS:CD2	2.43	0.54
2:E:3767:GLN:HE22	2:E:3806:ASN:HB2	1.70	0.54
2:G:5004:THR:HG22	2:G:5007:GLU:HG2	1.88	0.54
2:J:3093:ARG:O	2:J:3097:GLU:HG2	2.07	0.54
3:M:111:ASN:O	3:M:114:TYR:HB2	2.07	0.54
1:D:35:LYS:HE2	2:E:636:ASN:ND2	2.23	0.54
2:B:316:PHE:HB3	2:B:346:CYS:HB2	1.90	0.54
2:E:1740:PRO:HA	2:E:1743:ARG:HG2	1.89	0.54
2:G:3397:GLU:HA	2:G:3400:VAL:HG12	1.89	0.54
2:J:2685:SER:HA	2:J:2688:HIS:CD2	2.42	0.54
2:J:2724:GLU:HG3	2:J:2725:LYS:HG3	1.88	0.54
3:F:71:ARG:HD2	3:F:72:ASP:N	2.23	0.54
3:K:71:ARG:HD2	3:K:72:ASP:N	2.23	0.54
3:K:72:ASP:OD1	3:K:77:THR:OG1	2.25	0.54
1:A:68:LEU:HG	1:A:103:LEU:HG	1.88	0.54
1:I:35:LYS:HE2	2:J:636:ASN:ND2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:232:THR:HG22	2:E:258:SER:HB3	1.88	0.54
2:E:545:ASP:OD1	2:E:582:HIS:NE2	2.40	0.54
2:E:1032:LYS:HB3	2:E:1036:ARG:HH22	1.71	0.54
2:E:1771:LEU:HD11	2:E:2149:VAL:HG12	1.90	0.54
2:E:2863:SER:HA	2:E:2928:LYS:HG3	1.90	0.54
2:J:545:ASP:OD1	2:J:582:HIS:NE2	2.40	0.54
2:J:2189:LYS:HA	2:J:2192:TYR:CZ	2.43	0.54
3:C:105:ASN:ND2	3:C:111:ASN:HB2	2.17	0.54
3:F:6:GLU:HG3	3:F:121:THR:HG23	1.88	0.54
3:F:51:ILE:O	3:F:71:ARG:NH2	2.35	0.54
3:K:111:ASN:O	3:K:114:TYR:HB2	2.07	0.54
2:B:1740:PRO:HA	2:B:1743:ARG:HG2	1.89	0.54
2:B:2685:SER:HA	2:B:2688:HIS:CD2	2.42	0.54
2:B:3057:PHE:HB2	2:B:3060:ASP:HB2	1.90	0.54
2:E:875:ALA:O	2:E:879:HIS:ND1	2.41	0.54
2:G:647:ASN:HD22	2:G:822:ARG:HG2	1.71	0.54
2:G:1005:TRP:HE1	2:G:1016:ARG:HH21	1.53	0.54
2:G:2330:ARG:O	2:G:2334:PHE:HD2	1.90	0.54
2:J:394:GLN:HG2	2:J:396:GLU:H	1.73	0.54
2:J:783:PHE:HB2	2:J:787:VAL:HG21	1.88	0.54
2:J:2599:GLN:O	2:J:2603:ILE:HG12	2.07	0.54
3:C:36:TRP:HB3	3:C:48:VAL:HB	1.90	0.54
2:B:1130:GLN:HG2	2:B:1138:PRO:HA	1.90	0.54
2:B:4767:TRP:O	2:B:4771:ILE:HG12	2.08	0.54
2:E:2330:ARG:O	2:E:2334:PHE:HD2	1.90	0.54
2:E:2599:GLN:O	2:E:2603:ILE:HG12	2.07	0.54
2:E:3057:PHE:HB2	2:E:3060:ASP:HB2	1.90	0.54
2:G:2685:SER:HA	2:G:2688:HIS:CD2	2.43	0.54
2:G:3189:ALA:HA	2:G:3192:GLU:HG2	1.89	0.54
2:G:3416:VAL:HG23	2:G:3423:TRP:HZ3	1.72	0.54
2:G:4767:TRP:O	2:G:4771:ILE:HG12	2.08	0.54
2:J:875:ALA:O	2:J:879:HIS:ND1	2.41	0.54
2:J:2544:THR:HG22	2:J:2546:MET:H	1.72	0.54
2:J:2863:SER:HA	2:J:2928:LYS:HG3	1.90	0.54
2:J:3589:PRO:HA	2:J:3592:ILE:HD12	1.90	0.54
2:E:3589:PRO:HA	2:E:3592:ILE:HD12	1.90	0.54
2:G:2585:THR:HA	2:G:2588:ARG:HD3	1.89	0.54
2:J:2122:SER:O	2:J:2125:HIS:ND1	2.40	0.54
2:J:3197:LEU:O	2:J:3201:MET:HG2	2.08	0.54
2:J:3533:ILE:HG22	2:J:3537:LYS:NZ	2.23	0.54
2:B:2175:GLU:HA	2:B:2178:MET:HE2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3533:ILE:HG22	2:B:3537:LYS:NZ	2.23	0.54
2:B:5004:THR:HG22	2:B:5007:GLU:HG2	1.88	0.54
2:E:867:LEU:O	2:E:871:ARG:HB3	2.08	0.54
2:E:1130:GLN:HG2	2:E:1138:PRO:HA	1.90	0.54
2:E:2258:LEU:HD21	2:E:2298:VAL:HG13	1.90	0.54
2:E:3547:GLU:O	2:E:3551:GLU:HG2	2.08	0.54
2:E:4767:TRP:O	2:E:4771:ILE:HG12	2.08	0.54
2:G:867:LEU:O	2:G:871:ARG:HB3	2.08	0.54
2:J:3524:MET:HA	2:J:3582:ARG:HH12	1.71	0.54
2:J:3865:VAL:HG12	2:J:3867:ASN:H	1.73	0.54
3:M:34:MET:HE3	3:M:35:GLY:O	2.08	0.54
2:B:1122:TYR:HD2	2:B:1160:ILE:HD12	1.73	0.53
2:B:1771:LEU:HD11	2:B:2149:VAL:HG12	1.90	0.53
2:B:2238:TYR:O	2:B:2242:ILE:HG12	2.08	0.53
2:B:2950:SER:HA	2:B:2953:LYS:HB2	1.90	0.53
2:E:1294:PRO:HB2	2:E:1547:LYS:HB2	1.91	0.53
2:G:875:ALA:O	2:G:879:HIS:ND1	2.41	0.53
2:G:1771:LEU:HD11	2:G:2149:VAL:HG12	1.90	0.53
2:G:2544:THR:HG22	2:G:2546:MET:H	1.72	0.53
2:G:3107:VAL:HA	2:G:3175:LEU:HD21	1.89	0.53
2:J:1849:LEU:HG	2:J:1945:TYR:CE1	2.42	0.53
2:J:2973:PHE:HA	2:J:2976:HIS:ND1	2.24	0.53
3:F:34:MET:HE3	3:F:35:GLY:O	2.07	0.53
2:B:545:ASP:OD1	2:B:582:HIS:NE2	2.40	0.53
2:B:1294:PRO:HB2	2:B:1547:LYS:HB2	1.91	0.53
2:B:1698:LEU:HG	2:B:1712:TYR:CZ	2.43	0.53
2:B:2189:LYS:HA	2:B:2192:TYR:CZ	2.43	0.53
2:B:3865:VAL:HG12	2:B:3867:ASN:H	1.73	0.53
2:E:3996:PHE:HA	2:E:3999:MET:HE2	1.90	0.53
2:G:1698:LEU:HG	2:G:1712:TYR:CZ	2.43	0.53
2:G:2950:SER:HA	2:G:2953:LYS:HB2	1.90	0.53
2:G:3197:LEU:O	2:G:3201:MET:HG2	2.08	0.53
2:G:4024:VAL:O	2:G:4027:LEU:HG	2.09	0.53
2:J:2258:LEU:HD21	2:J:2298:VAL:HG13	1.90	0.53
2:J:2330:ARG:O	2:J:2334:PHE:HD2	1.90	0.53
2:J:2711:PRO:HG2	2:J:2714:TYR:HB2	1.89	0.53
3:F:109:THR:HA	3:F:112:ASP:HB2	1.91	0.53
3:M:6:GLU:HG3	3:M:121:THR:HG23	1.88	0.53
2:B:224:HIS:HB2	2:B:226:HIS:CE1	2.43	0.53
2:B:2330:ARG:O	2:B:2334:PHE:HD2	1.90	0.53
2:B:3592:ILE:HG12	2:B:3595:ARG:HH21	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1122:TYR:HD2	2:E:1160:ILE:HD12	1.73	0.53
2:E:2973:PHE:HA	2:E:2976:HIS:ND1	2.24	0.53
2:G:224:HIS:HB2	2:G:226:HIS:CE1	2.43	0.53
2:G:1862:ILE:O	2:G:1866:ILE:HG12	2.09	0.53
2:G:2711:PRO:HG2	2:G:2714:TYR:HB2	1.89	0.53
2:G:3349:ALA:HB1	2:G:3353:LEU:HD22	1.89	0.53
2:G:3752:SER:HB2	2:G:3755:GLU:HG3	1.90	0.53
2:J:224:HIS:HB2	2:J:226:HIS:CE1	2.44	0.53
2:J:867:LEU:O	2:J:871:ARG:HB3	2.08	0.53
2:J:1862:ILE:O	2:J:1866:ILE:HG12	2.09	0.53
2:J:3547:GLU:O	2:J:3551:GLU:HG2	2.08	0.53
2:J:3592:ILE:HG12	2:J:3595:ARG:HH21	1.73	0.53
3:F:36:TRP:HB3	3:F:48:VAL:HB	1.90	0.53
3:M:38:ARG:HG3	3:M:46:GLU:HG3	1.91	0.53
2:E:3107:VAL:HA	2:E:3175:LEU:HD21	1.89	0.53
2:G:668:VAL:O	2:G:741:GLU:N	2.41	0.53
2:J:1698:LEU:HG	2:J:1712:TYR:CZ	2.43	0.53
2:J:1771:LEU:HD11	2:J:2149:VAL:HG12	1.90	0.53
2:B:668:VAL:O	2:B:741:GLU:N	2.41	0.53
2:B:3197:LEU:O	2:B:3201:MET:HG2	2.08	0.53
2:B:3349:ALA:HB1	2:B:3353:LEU:HD22	1.89	0.53
2:E:394:GLN:HG2	2:E:396:GLU:H	1.73	0.53
2:E:668:VAL:O	2:E:741:GLU:N	2.41	0.53
2:E:1518:CYS:HB3	2:E:1527:MET:HE1	1.91	0.53
2:E:2754:PHE:HE2	2:E:2813:LEU:HD11	1.72	0.53
2:G:316:PHE:HB3	2:G:346:CYS:HB2	1.90	0.53
2:G:394:GLN:HG2	2:G:396:GLU:H	1.73	0.53
2:G:1122:TYR:HD2	2:G:1160:ILE:HD12	1.73	0.53
2:G:3533:ILE:HG22	2:G:3537:LYS:NZ	2.23	0.53
2:G:3547:GLU:O	2:G:3551:GLU:HG2	2.08	0.53
2:J:316:PHE:HB3	2:J:346:CYS:HB2	1.90	0.53
2:J:668:VAL:O	2:J:741:GLU:N	2.41	0.53
2:J:3057:PHE:HB2	2:J:3060:ASP:HB2	1.90	0.53
2:J:4024:VAL:HA	2:J:4027:LEU:HG	1.91	0.53
2:J:4207:MET:HG2	2:J:4208:PRO:HD2	1.91	0.53
3:M:71:ARG:HD2	3:M:72:ASP:N	2.23	0.53
2:B:103:TYR:HB2	2:B:160:GLY:H	1.72	0.53
2:B:3589:PRO:HA	2:B:3592:ILE:HD12	1.90	0.53
2:B:4024:VAL:O	2:B:4027:LEU:HG	2.09	0.53
2:E:1087:ARG:HG2	2:E:1154:ASP:OD1	2.09	0.53
2:E:4024:VAL:O	2:E:4027:LEU:HG	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:2863:SER:HA	2:G:2928:LYS:HG3	1.90	0.53
2:G:4961:CYS:HA	2:G:5025:GLY:H	1.74	0.53
2:J:248:GLU:CB	2:J:373:LYS:HD2	2.32	0.53
2:J:2754:PHE:HE2	2:J:2813:LEU:HD11	1.72	0.53
2:E:224:HIS:HB2	2:E:226:HIS:CE1	2.43	0.53
2:J:1087:ARG:HG2	2:J:1154:ASP:OD1	2.09	0.53
2:J:3904:ARG:NH1	2:J:3976:ASN:OD1	2.33	0.53
2:J:4767:TRP:O	2:J:4771:ILE:HG12	2.08	0.53
3:K:109:THR:HA	3:K:112:ASP:HB2	1.90	0.53
3:M:36:TRP:HB3	3:M:48:VAL:HB	1.90	0.53
2:B:394:GLN:HG2	2:B:396:GLU:H	1.73	0.53
2:B:1087:ARG:HG2	2:B:1154:ASP:OD1	2.09	0.53
2:B:2751:LEU:O	2:B:2755:ILE:HG12	2.09	0.53
2:B:3752:SER:HB2	2:B:3755:GLU:HG3	1.90	0.53
2:B:4211:LYS:NZ	5:B:5102:ATP:O3G	2.39	0.53
2:E:3197:LEU:O	2:E:3201:MET:HG2	2.08	0.53
2:E:3533:ILE:HG22	2:E:3537:LYS:NZ	2.23	0.53
2:G:530:ILE:HD11	2:G:563:VAL:HG23	1.91	0.53
2:G:663:TYR:HD1	2:G:747:CYS:HB3	1.74	0.53
2:G:1294:PRO:HB2	2:G:1547:LYS:HB2	1.90	0.53
2:G:2189:LYS:HA	2:G:2192:TYR:CZ	2.43	0.53
2:G:2973:PHE:HA	2:G:2976:HIS:ND1	2.24	0.53
2:J:4024:VAL:O	2:J:4027:LEU:HG	2.09	0.53
2:B:530:ILE:HD11	2:B:563:VAL:HG23	1.91	0.53
2:B:2230:THR:HG22	2:B:2234:ARG:HH11	1.74	0.53
2:B:4680:LYS:HB3	2:B:4686:LEU:HD22	1.91	0.53
2:E:663:TYR:HD1	2:E:747:CYS:HB3	1.74	0.53
2:E:1698:LEU:HG	2:E:1712:TYR:CZ	2.43	0.53
2:E:3865:VAL:HG12	2:E:3867:ASN:H	1.73	0.53
2:G:210:GLU:HG2	2:G:273:HIS:HE2	1.74	0.53
2:G:1130:GLN:HG2	2:G:1138:PRO:HA	1.90	0.53
2:G:1763:PRO:HB3	2:G:1950:GLU:HG2	1.91	0.53
2:G:2238:TYR:O	2:G:2242:ILE:HG12	2.08	0.53
2:J:1294:PRO:HB2	2:J:1547:LYS:HB2	1.90	0.53
2:J:2751:LEU:O	2:J:2755:ILE:HG12	2.09	0.53
1:D:22:CYS:SG	1:D:106:LEU:HD13	2.49	0.53
2:B:722:TRP:CE2	2:B:727:ALA:HB2	2.44	0.53
2:B:875:ALA:O	2:B:879:HIS:ND1	2.41	0.53
2:B:1862:ILE:O	2:B:1866:ILE:HG12	2.09	0.53
2:B:4626:ASN:N	2:B:4629:TYR:HH	2.08	0.53
2:E:2152:THR:O	2:E:2156:LEU:HG	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:722:TRP:CE2	2:G:727:ALA:HB2	2.44	0.53
2:G:4207:MET:HG2	2:G:4208:PRO:HD2	1.91	0.53
2:G:4680:LYS:HB3	2:G:4686:LEU:HD22	1.91	0.53
2:J:663:TYR:HD1	2:J:747:CYS:HB3	1.74	0.53
2:J:2123:LEU:O	2:J:2127:GLN:HG2	2.09	0.53
2:J:2152:THR:O	2:J:2156:LEU:HG	2.09	0.53
2:J:2238:TYR:O	2:J:2242:ILE:HG12	2.08	0.53
2:J:2950:SER:HA	2:J:2953:LYS:HB2	1.90	0.53
2:B:248:GLU:CB	2:B:373:LYS:HD2	2.31	0.52
2:B:3961:VAL:O	2:B:3965:LEU:HG	2.09	0.52
2:E:2230:THR:HG22	2:E:2234:ARG:HH11	1.74	0.52
2:E:2238:TYR:O	2:E:2242:ILE:HG12	2.08	0.52
2:E:3752:SER:HB2	2:E:3755:GLU:HG3	1.90	0.52
2:E:4211:LYS:NZ	5:E:5102:ATP:O3G	2.39	0.52
2:G:753:PRO:O	2:G:769:GLU:HA	2.09	0.52
2:G:3592:ILE:HG12	2:G:3595:ARG:HH21	1.73	0.52
2:J:4809:PHE:HA	2:J:4812:HIS:HD2	1.74	0.52
3:C:38:ARG:HG3	3:C:46:GLU:HG3	1.91	0.52
2:B:2258:LEU:HD21	2:B:2298:VAL:HG13	1.90	0.52
2:E:578:ILE:HG13	2:E:606:LEU:HD22	1.91	0.52
2:E:2175:GLU:HA	2:E:2178:MET:HE2	1.92	0.52
2:E:3775:ALA:HA	2:E:3778:MET:HG3	1.92	0.52
2:G:545:ASP:OD1	2:G:582:HIS:NE2	2.40	0.52
2:G:2152:THR:O	2:G:2156:LEU:HG	2.09	0.52
2:G:3057:PHE:HB2	2:G:3060:ASP:HB2	1.90	0.52
2:J:421:PHE:HB3	2:J:431:PRO:HB3	1.91	0.52
2:J:753:PRO:O	2:J:769:GLU:HA	2.09	0.52
2:J:1130:GLN:HG2	2:J:1138:PRO:HA	1.90	0.52
2:J:3752:SER:HB2	2:J:3755:GLU:HG3	1.90	0.52
2:J:4211:LYS:NZ	5:J:5102:ATP:O3G	2.39	0.52
3:M:89:ASP:HB2	3:M:125:VAL:HG21	1.92	0.52
1:A:22:CYS:SG	1:A:106:LEU:HD13	2.49	0.52
2:B:2123:LEU:O	2:B:2127:GLN:HG2	2.09	0.52
2:B:2323:TRP:CZ2	2:B:2422:ILE:HG23	2.44	0.52
2:B:3003:LEU:HB2	2:B:3004:PRO:HD3	1.92	0.52
2:B:3547:GLU:O	2:B:3551:GLU:HG2	2.08	0.52
2:B:4961:CYS:HA	2:B:5025:GLY:H	1.73	0.52
2:E:349:GLN:HE21	2:E:354:GLY:HA2	1.75	0.52
2:E:753:PRO:O	2:E:769:GLU:HA	2.09	0.52
2:E:951:LYS:HD2	2:E:970:LEU:HD22	1.91	0.52
2:E:4207:MET:HG2	2:E:4208:PRO:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:349:GLN:HE21	2:G:354:GLY:HA2	1.75	0.52
2:G:3589:PRO:HA	2:G:3592:ILE:HD12	1.90	0.52
2:J:578:ILE:HG13	2:J:606:LEU:HD22	1.91	0.52
2:J:2626:LEU:HD22	2:J:2640:PRO:HB3	1.92	0.52
2:J:2781:VAL:HA	2:J:2789:PRO:HB2	1.92	0.52
2:J:4961:CYS:HA	2:J:5025:GLY:H	1.73	0.52
3:F:72:ASP:OD1	3:F:77:THR:OG1	2.25	0.52
2:B:1763:PRO:HB3	2:B:1950:GLU:HG2	1.91	0.52
2:E:1104:TRP:HB3	2:E:1188:PHE:HB3	1.91	0.52
2:E:1862:ILE:O	2:E:1866:ILE:HG12	2.09	0.52
2:E:2323:TRP:CZ2	2:E:2422:ILE:HG23	2.44	0.52
2:E:3003:LEU:HB2	2:E:3004:PRO:HD3	1.92	0.52
2:E:4626:ASN:N	2:E:4629:TYR:HH	2.08	0.52
2:G:1122:TYR:CE2	2:G:1182:ILE:HG12	2.45	0.52
2:G:2781:VAL:HA	2:G:2789:PRO:HB2	1.92	0.52
2:J:642:THR:HG21	2:J:1615:VAL:HG21	1.92	0.52
2:J:951:LYS:HD2	2:J:970:LEU:HD22	1.91	0.52
3:C:102:ASN:HB2	3:C:104:TYR:CE2	2.44	0.52
3:K:36:TRP:HB3	3:K:48:VAL:HB	1.90	0.52
3:K:38:ARG:HG3	3:K:46:GLU:HG3	1.91	0.52
1:I:22:CYS:SG	1:I:106:LEU:HD13	2.49	0.52
2:B:246:TYR:HB2	2:B:373:LYS:CE	2.39	0.52
2:B:2973:PHE:HA	2:B:2976:HIS:ND1	2.24	0.52
2:E:1763:PRO:HB3	2:E:1950:GLU:HG2	1.91	0.52
2:E:2123:LEU:O	2:E:2127:GLN:HG2	2.09	0.52
2:E:3166:TYR:OH	2:E:3240:CYS:HB2	2.10	0.52
2:E:3592:ILE:HG12	2:E:3595:ARG:HH21	1.73	0.52
2:G:553:ARG:HA	2:G:553:ARG:NH1	2.25	0.52
2:G:2751:LEU:O	2:G:2755:ILE:HG12	2.09	0.52
2:G:3713:LYS:HZ1	2:G:3716:LEU:HD12	1.74	0.52
2:J:553:ARG:NH1	2:J:553:ARG:HA	2.25	0.52
2:J:1122:TYR:HD2	2:J:1160:ILE:HD12	1.73	0.52
2:J:3166:TYR:OH	2:J:3240:CYS:HB2	2.10	0.52
2:J:4017:LEU:HD12	2:J:4135:PRO:HB2	1.92	0.52
2:J:4626:ASN:N	2:J:4629:TYR:HH	2.08	0.52
3:K:89:ASP:HB2	3:K:125:VAL:HG21	1.92	0.52
2:B:578:ILE:HG13	2:B:606:LEU:HD22	1.91	0.52
2:B:663:TYR:HD1	2:B:747:CYS:HB3	1.74	0.52
2:B:867:LEU:O	2:B:871:ARG:HB3	2.08	0.52
2:B:2330:ARG:O	2:B:2334:PHE:CD2	2.63	0.52
2:E:981:GLN:O	2:E:985:VAL:HG23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1453:VAL:HG22	2:E:1551:ALA:HB2	1.91	0.52
2:E:2950:SER:HA	2:E:2953:LYS:HB2	1.90	0.52
2:E:3961:VAL:O	2:E:3965:LEU:HG	2.09	0.52
2:E:4666:VAL:O	2:E:4670:ILE:HG12	2.10	0.52
2:G:421:PHE:HB3	2:G:431:PRO:HB3	1.91	0.52
2:G:981:GLN:O	2:G:985:VAL:HG23	2.10	0.52
2:G:2258:LEU:HD21	2:G:2298:VAL:HG13	1.90	0.52
2:G:3455:GLU:OE1	2:G:3456:GLN:NE2	2.43	0.52
2:G:3961:VAL:O	2:G:3965:LEU:HG	2.10	0.52
2:G:4017:LEU:HD12	2:G:4135:PRO:HB2	1.92	0.52
2:J:349:GLN:HE21	2:J:354:GLY:HA2	1.75	0.52
2:J:1453:VAL:HG22	2:J:1551:ALA:HB2	1.91	0.52
2:J:2175:GLU:HA	2:J:2178:MET:CE	2.39	0.52
2:J:2230:THR:HG22	2:J:2234:ARG:HH11	1.74	0.52
3:M:102:ASN:HB2	3:M:104:TYR:CE2	2.44	0.52
2:B:753:PRO:O	2:B:769:GLU:HA	2.09	0.52
2:B:1453:VAL:HG22	2:B:1551:ALA:HB2	1.91	0.52
2:B:2175:GLU:HA	2:B:2178:MET:CE	2.39	0.52
2:B:3586:ALA:HA	2:B:3591:LYS:HD2	1.92	0.52
2:E:972:LEU:HB2	2:E:1044:ARG:HE	1.74	0.52
2:E:2751:LEU:O	2:E:2755:ILE:HG12	2.09	0.52
2:E:3455:GLU:OE1	2:E:3456:GLN:NE2	2.43	0.52
2:G:660:GLY:HA2	2:G:750:LEU:HB2	1.92	0.52
2:G:1087:ARG:HG2	2:G:1154:ASP:OD1	2.09	0.52
2:G:2230:THR:HG22	2:G:2234:ARG:HH11	1.74	0.52
2:G:2330:ARG:O	2:G:2334:PHE:CD2	2.63	0.52
2:G:2626:LEU:HD22	2:G:2640:PRO:HB3	1.91	0.52
2:G:2888:ARG:NH1	2:G:2892:GLN:OE1	2.43	0.52
2:G:3166:TYR:OH	2:G:3240:CYS:HB2	2.10	0.52
2:J:1763:PRO:HB3	2:J:1950:GLU:HG2	1.91	0.52
2:J:2611:CYS:O	2:J:2650:ARG:NH1	2.43	0.52
3:F:21:SER:HA	3:F:78:VAL:O	2.10	0.52
1:H:35:LYS:HE2	2:G:636:ASN:ND2	2.24	0.52
2:B:951:LYS:HD2	2:B:970:LEU:HD22	1.91	0.52
2:B:3346:VAL:HG11	2:B:3414:ARG:HE	1.75	0.52
2:B:3775:ALA:HA	2:B:3778:MET:HG3	1.92	0.52
2:E:210:GLU:HG2	2:E:273:HIS:HE2	1.74	0.52
2:E:3467:MET:HA	2:E:3467:MET:HE3	1.92	0.52
2:E:4680:LYS:HB3	2:E:4686:LEU:HD22	1.91	0.52
2:E:4878:ASP:OD1	2:E:4880:MET:HG3	2.10	0.52
2:G:3865:VAL:HG12	2:G:3867:ASN:H	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4878:ASP:OD1	2:G:4880:MET:HG3	2.10	0.52
2:J:246:TYR:CD1	2:J:375:LYS:HA	2.45	0.52
2:J:950:LEU:HD22	2:J:969:PRO:HB2	1.92	0.52
2:J:1498:GLY:HA2	2:J:1501:VAL:HG12	1.92	0.52
2:J:2323:TRP:CZ2	2:J:2422:ILE:HG23	2.44	0.52
2:J:3003:LEU:HB2	2:J:3004:PRO:HD3	1.92	0.52
2:J:3467:MET:HE3	2:J:3467:MET:HA	1.92	0.52
3:K:102:ASN:HB2	3:K:104:TYR:CE2	2.45	0.52
1:H:87:HIS:NE2	2:G:1786:LEU:HB2	2.25	0.52
2:B:349:GLN:HE21	2:B:354:GLY:HA2	1.75	0.52
2:B:972:LEU:HB2	2:B:1044:ARG:HE	1.75	0.52
2:E:248:GLU:HA	2:E:372:LEU:C	2.30	0.52
2:E:596:ASN:ND2	2:E:599:VAL:HG23	2.25	0.52
2:E:660:GLY:HA2	2:E:750:LEU:HB2	1.92	0.52
2:E:1008:SER:HB2	2:E:1017:ARG:NE	2.22	0.52
2:E:2175:GLU:HA	2:E:2178:MET:CE	2.39	0.52
2:E:4809:PHE:HA	2:E:4812:HIS:HD2	1.74	0.52
2:G:972:LEU:HB2	2:G:1044:ARG:HE	1.74	0.52
2:G:2123:LEU:O	2:G:2127:GLN:HG2	2.09	0.52
2:G:3346:VAL:HG11	2:G:3414:ARG:HE	1.75	0.52
2:J:660:GLY:HA2	2:J:750:LEU:HB2	1.92	0.52
2:J:1104:TRP:HB3	2:J:1188:PHE:HB3	1.91	0.52
2:J:1663:HIS:HE2	2:J:1711:TYR:HE1	1.58	0.52
3:C:21:SER:HA	3:C:78:VAL:O	2.10	0.52
3:C:109:THR:HA	3:C:112:ASP:HB2	1.92	0.52
2:B:553:ARG:NH1	2:B:553:ARG:HA	2.25	0.52
2:B:660:GLY:HA2	2:B:750:LEU:HB2	1.92	0.52
2:B:790:ARG:HG2	2:B:1624:LEU:O	2.10	0.52
2:B:1104:TRP:HB3	2:B:1188:PHE:HB3	1.91	0.52
2:B:1447:CYS:HB3	2:B:1555:LEU:HB3	1.91	0.52
2:B:3455:GLU:OE1	2:B:3456:GLN:NE2	2.43	0.52
2:E:421:PHE:HB3	2:E:431:PRO:HB3	1.91	0.52
2:E:1042:ALA:O	2:E:1046:LEU:HG	2.11	0.52
2:E:2888:ARG:NH1	2:E:2892:GLN:OE1	2.43	0.52
2:E:3368:ARG:O	2:E:3372:VAL:HG23	2.10	0.52
2:E:4961:CYS:HA	2:E:5025:GLY:H	1.74	0.52
2:G:548:VAL:HG21	2:G:582:HIS:CD2	2.45	0.52
2:G:1975:SER:O	2:G:1979:LEU:HG	2.10	0.52
2:G:3003:LEU:HB2	2:G:3004:PRO:HD3	1.92	0.52
2:G:4809:PHE:HA	2:G:4812:HIS:HD2	1.74	0.52
2:J:548:VAL:HG21	2:J:582:HIS:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:722:TRP:CE2	2:J:727:ALA:HB2	2.44	0.52
1:H:22:CYS:SG	1:H:106:LEU:HD13	2.49	0.51
2:B:206:CYS:SG	2:B:271:GLY:N	2.79	0.51
2:B:421:PHE:HB3	2:B:431:PRO:HB3	1.91	0.51
2:B:3166:TYR:OH	2:B:3240:CYS:HB2	2.10	0.51
2:B:4207:MET:HG2	2:B:4208:PRO:HD2	1.91	0.51
2:E:553:ARG:NH1	2:E:553:ARG:HA	2.25	0.51
2:E:722:TRP:CE2	2:E:727:ALA:HB2	2.44	0.51
2:E:2299:VAL:HG12	2:E:2360:LYS:HD2	1.92	0.51
2:E:3586:ALA:HA	2:E:3591:LYS:HD2	1.92	0.51
2:G:596:ASN:ND2	2:G:599:VAL:HG23	2.25	0.51
2:G:642:THR:HG21	2:G:1615:VAL:HG21	1.92	0.51
2:G:858:THR:HG21	2:G:931:THR:HG22	1.92	0.51
2:G:950:LEU:HD22	2:G:969:PRO:HB2	1.92	0.51
2:G:1008:SER:HB2	2:G:1017:ARG:NE	2.22	0.51
2:G:1453:VAL:HG22	2:G:1551:ALA:HB2	1.91	0.51
2:G:1519:LEU:HD11	2:G:1572:ILE:HD13	1.93	0.51
2:G:4626:ASN:N	2:G:4629:TYR:HH	2.08	0.51
2:J:1042:ALA:O	2:J:1046:LEU:HG	2.11	0.51
2:J:4666:VAL:O	2:J:4670:ILE:HG12	2.10	0.51
2:B:100:THR:HG21	2:B:162:LYS:HD3	1.92	0.51
2:B:904:HIS:CD2	2:B:907:LEU:H	2.29	0.51
2:B:1245:PHE:HB2	2:B:1290:ARG:HH21	1.76	0.51
2:B:1519:LEU:HD11	2:B:1572:ILE:HD13	1.93	0.51
2:B:2152:THR:O	2:B:2156:LEU:HG	2.09	0.51
2:B:2792:ARG:H	2:B:2797:PHE:HD1	1.59	0.51
2:B:2888:ARG:NH1	2:B:2892:GLN:OE1	2.43	0.51
2:E:1749:PRO:HG2	2:E:1759:ARG:HD2	1.92	0.51
2:E:2626:LEU:HD22	2:E:2640:PRO:HB3	1.91	0.51
2:E:3313:ASN:OD1	2:E:3353:LEU:HD21	2.11	0.51
2:G:100:THR:HG21	2:G:162:LYS:HD3	1.92	0.51
2:G:645:ARG:HD3	2:G:826:ILE:HD13	1.93	0.51
2:G:1498:GLY:HA2	2:G:1501:VAL:HG12	1.92	0.51
2:J:530:ILE:HD11	2:J:563:VAL:HG23	1.91	0.51
2:J:981:GLN:O	2:J:985:VAL:HG23	2.10	0.51
2:J:1749:PRO:HG2	2:J:1759:ARG:HD2	1.92	0.51
2:J:3324:VAL:O	2:J:3327:LEU:HD22	2.11	0.51
2:J:3455:GLU:OE1	2:J:3456:GLN:NE2	2.43	0.51
2:J:4680:LYS:HB3	2:J:4686:LEU:HD22	1.91	0.51
3:F:38:ARG:HG3	3:F:46:GLU:HG3	1.91	0.51
2:B:981:GLN:O	2:B:985:VAL:HG23	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4017:LEU:HD12	2:B:4135:PRO:HB2	1.92	0.51
2:B:4878:ASP:OD1	2:B:4880:MET:HG3	2.10	0.51
2:E:100:THR:HG21	2:E:162:LYS:HD3	1.92	0.51
2:E:645:ARG:HD3	2:E:826:ILE:HD13	1.93	0.51
2:E:1694:LEU:HD13	2:E:1715:LEU:HG	1.92	0.51
2:G:1663:HIS:HE2	2:G:1711:TYR:HE1	1.58	0.51
2:G:2323:TRP:CZ2	2:G:2422:ILE:HG23	2.44	0.51
2:G:3250:MET:HA	2:G:3253:ILE:HG22	1.92	0.51
2:G:3313:ASN:OD1	2:G:3353:LEU:HD21	2.11	0.51
2:G:4666:VAL:O	2:G:4670:ILE:HG12	2.10	0.51
2:J:1676:LEU:HD23	2:J:2168:VAL:HG22	1.93	0.51
3:F:102:ASN:HB2	3:F:104:TYR:CE2	2.45	0.51
2:B:219:VAL:HG12	2:B:261:ARG:HB2	1.93	0.51
2:B:2611:CYS:O	2:B:2650:ARG:NH1	2.43	0.51
2:B:3767:GLN:NE2	2:B:3806:ASN:HB2	2.26	0.51
2:E:1245:PHE:HB2	2:E:1290:ARG:HH21	1.76	0.51
2:E:3250:MET:HA	2:E:3253:ILE:HG22	1.92	0.51
2:G:790:ARG:HG2	2:G:1624:LEU:O	2.10	0.51
2:G:904:HIS:CD2	2:G:907:LEU:H	2.29	0.51
2:G:1749:PRO:HG2	2:G:1759:ARG:HD2	1.92	0.51
2:G:2974:ILE:HD13	2:G:3049:LEU:HD13	1.93	0.51
2:J:100:THR:HG21	2:J:162:LYS:HD3	1.92	0.51
2:J:2299:VAL:HG12	2:J:2360:LYS:HD2	1.92	0.51
2:J:2974:ILE:HD13	2:J:3049:LEU:HD13	1.93	0.51
2:J:3368:ARG:O	2:J:3372:VAL:HG23	2.10	0.51
2:J:3887:PHE:O	2:J:3891:LEU:HG	2.11	0.51
3:K:21:SER:HA	3:K:78:VAL:O	2.10	0.51
1:H:3:GLU:HB3	1:H:75:THR:HG22	1.93	0.51
2:B:645:ARG:HD3	2:B:826:ILE:HD13	1.93	0.51
2:B:1676:LEU:HD23	2:B:2168:VAL:HG22	1.93	0.51
2:B:1749:PRO:HG2	2:B:1759:ARG:HD2	1.92	0.51
2:B:3546:ASP:OD1	2:B:3547:GLU:N	2.44	0.51
2:B:4809:PHE:HA	2:B:4812:HIS:HD2	1.74	0.51
2:E:219:VAL:HG12	2:E:261:ARG:HB2	1.93	0.51
2:E:1676:LEU:HD23	2:E:2168:VAL:HG22	1.93	0.51
2:G:1708:ARG:HH12	2:G:1841:VAL:HG23	1.76	0.51
2:G:2175:GLU:HA	2:G:2178:MET:CE	2.39	0.51
2:G:2299:VAL:HG12	2:G:2360:LYS:HD2	1.92	0.51
2:G:3335:MET:HB3	2:G:3403:ARG:HD2	1.93	0.51
2:G:4846:VAL:O	2:G:4850:LEU:HG	2.11	0.51
2:J:1975:SER:O	2:J:1979:LEU:HG	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3335:MET:HB3	2:J:3403:ARG:HD2	1.93	0.51
2:J:4846:VAL:O	2:J:4850:LEU:HG	2.11	0.51
2:B:2299:VAL:HG12	2:B:2360:LYS:HD2	1.92	0.51
2:E:530:ILE:HD11	2:E:563:VAL:HG23	1.91	0.51
2:E:1519:LEU:HD11	2:E:1572:ILE:HD13	1.93	0.51
2:E:3346:VAL:HG11	2:E:3414:ARG:HE	1.75	0.51
2:E:3887:PHE:O	2:E:3891:LEU:HG	2.11	0.51
2:G:578:ILE:HG13	2:G:606:LEU:HD22	1.91	0.51
2:G:1013:ILE:H	2:G:1013:ILE:HD12	1.76	0.51
2:G:1104:TRP:HB3	2:G:1188:PHE:HB3	1.91	0.51
2:G:1245:PHE:HB2	2:G:1290:ARG:HH21	1.76	0.51
2:G:1694:LEU:HD13	2:G:1715:LEU:HG	1.92	0.51
2:G:3586:ALA:HA	2:G:3591:LYS:HD2	1.92	0.51
2:G:3767:GLN:NE2	2:G:3806:ASN:HB2	2.26	0.51
2:G:3775:ALA:HA	2:G:3778:MET:HG3	1.92	0.51
2:G:3967:GLU:O	2:G:3970:GLN:HG2	2.11	0.51
2:J:169:LEU:HB2	2:J:202:MET:HE3	1.93	0.51
2:J:470:SER:HA	2:J:473:ASN:HD21	1.76	0.51
2:J:1447:CYS:HB3	2:J:1555:LEU:HB3	1.91	0.51
2:J:2012:PHE:CZ	2:J:2031:LEU:HD23	2.46	0.51
2:J:2888:ARG:NH1	2:J:2892:GLN:OE1	2.43	0.51
2:J:3250:MET:HA	2:J:3253:ILE:HG22	1.92	0.51
2:J:3360:PRO:O	2:J:3364:ARG:HG2	2.11	0.51
2:J:3775:ALA:HA	2:J:3778:MET:HG3	1.92	0.51
2:J:4878:ASP:OD1	2:J:4880:MET:HG3	2.10	0.51
3:C:89:ASP:HB2	3:C:125:VAL:HG21	1.92	0.51
2:B:111:HIS:CE1	2:B:113:HIS:HB3	2.46	0.51
2:B:642:THR:HG21	2:B:1615:VAL:HG21	1.92	0.51
2:B:1663:HIS:HE2	2:B:1711:TYR:HE1	1.58	0.51
2:B:2323:TRP:HZ2	2:B:2422:ILE:HG23	1.75	0.51
2:B:2781:VAL:HA	2:B:2789:PRO:HB2	1.92	0.51
2:B:3368:ARG:O	2:B:3372:VAL:HG23	2.10	0.51
2:B:4666:VAL:O	2:B:4670:ILE:HG12	2.10	0.51
2:E:246:TYR:CD1	2:E:375:LYS:HA	2.46	0.51
2:E:276:TRP:CE2	2:E:339:ILE:HG12	2.46	0.51
2:E:2330:ARG:O	2:E:2334:PHE:CD2	2.63	0.51
2:E:2757:LYS:HZ2	2:E:2929:PHE:HZ	1.59	0.51
2:E:2974:ILE:HD13	2:E:3049:LEU:HD13	1.93	0.51
2:E:4852:THR:HG21	2:E:4883:TYR:HA	1.93	0.51
2:G:111:HIS:CE1	2:G:113:HIS:HB3	2.46	0.51
2:G:470:SER:HA	2:G:473:ASN:HD21	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3324:VAL:O	2:G:3327:LEU:HD22	2.11	0.51
2:J:904:HIS:CD2	2:J:907:LEU:H	2.29	0.51
2:J:972:LEU:HB2	2:J:1044:ARG:HE	1.75	0.51
2:J:1245:PHE:HB2	2:J:1290:ARG:HH21	1.76	0.51
2:J:1448:VAL:HG12	2:J:1554:VAL:HG23	1.93	0.51
2:J:4780:PHE:HA	2:J:4783:ILE:HG22	1.93	0.51
3:C:17:SER:HA	3:C:83:ASN:HA	1.93	0.51
3:C:71:ARG:HH11	3:C:73:ASN:N	2.09	0.51
2:B:210:GLU:HG2	2:B:273:HIS:NE2	2.26	0.51
2:B:596:ASN:ND2	2:B:599:VAL:HG23	2.25	0.51
2:B:1013:ILE:H	2:B:1013:ILE:HD12	1.76	0.51
2:B:3313:ASN:OD1	2:B:3353:LEU:HD21	2.11	0.51
2:B:3514:LEU:O	2:B:3518:LEU:HB3	2.11	0.51
2:E:206:CYS:SG	2:E:271:GLY:N	2.79	0.51
2:E:858:THR:HG21	2:E:931:THR:HG22	1.92	0.51
2:E:1447:CYS:HB3	2:E:1555:LEU:HB3	1.91	0.51
2:E:2781:VAL:HA	2:E:2789:PRO:HB2	1.92	0.51
2:E:2792:ARG:H	2:E:2797:PHE:HD1	1.59	0.51
2:E:4846:VAL:O	2:E:4850:LEU:HG	2.11	0.51
2:G:219:VAL:HG12	2:G:261:ARG:HB2	1.93	0.51
2:G:951:LYS:HD2	2:G:970:LEU:HD22	1.91	0.51
2:G:1042:ALA:O	2:G:1046:LEU:HG	2.11	0.51
2:J:276:TRP:CE2	2:J:339:ILE:HG12	2.46	0.51
2:J:645:ARG:HD3	2:J:826:ILE:HD13	1.93	0.51
2:J:2330:ARG:O	2:J:2334:PHE:CD2	2.63	0.51
2:J:2799:GLU:O	2:J:2803:GLU:HG2	2.11	0.51
2:J:3313:ASN:OD1	2:J:3353:LEU:HD21	2.11	0.51
2:J:3384:LYS:HG2	2:J:3386:GLU:H	1.76	0.51
2:J:3713:LYS:HZ1	2:J:3717:ASP:H	1.59	0.51
3:F:8:GLY:HA3	3:F:20:LEU:HA	1.93	0.51
3:F:71:ARG:HH11	3:F:73:ASN:N	2.09	0.51
2:B:2626:LEU:HD22	2:B:2640:PRO:HB3	1.92	0.51
2:B:3250:MET:HA	2:B:3253:ILE:HG22	1.92	0.51
2:B:3335:MET:HB3	2:B:3403:ARG:HD2	1.92	0.51
2:B:3887:PHE:O	2:B:3891:LEU:HG	2.11	0.51
2:E:229:GLU:OE2	2:E:374:LYS:HD2	2.11	0.51
2:E:1498:GLY:HA2	2:E:1501:VAL:HG12	1.92	0.51
2:E:2611:CYS:O	2:E:2650:ARG:NH1	2.43	0.51
2:E:4017:LEU:HD12	2:E:4135:PRO:HB2	1.92	0.51
2:G:229:GLU:OE2	2:G:374:LYS:HD2	2.11	0.51
2:G:2012:PHE:CZ	2:G:2031:LEU:HD23	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3368:ARG:O	2:G:3372:VAL:HG23	2.10	0.51
2:G:3467:MET:HE3	2:G:3467:MET:HA	1.93	0.51
2:G:4204:GLN:HE21	2:G:4248:ALA:HB3	1.76	0.51
2:J:229:GLU:OE2	2:J:374:LYS:HD2	2.11	0.51
2:J:596:ASN:HD22	2:J:599:VAL:HG23	1.76	0.51
2:J:1694:LEU:HB3	2:J:1715:LEU:HD12	1.93	0.51
2:J:3080:VAL:O	2:J:3084:GLY:HA3	2.11	0.51
2:J:3346:VAL:HG11	2:J:3414:ARG:HE	1.75	0.51
2:J:3546:ASP:OD1	2:J:3547:GLU:N	2.44	0.51
2:J:3553:LEU:HB3	2:J:3593:VAL:HG12	1.92	0.51
3:M:21:SER:HA	3:M:78:VAL:O	2.10	0.51
1:H:68:LEU:HA	1:H:103:LEU:HB3	1.93	0.51
2:B:229:GLU:OE2	2:B:374:LYS:HD2	2.10	0.51
2:B:470:SER:HA	2:B:473:ASN:HD21	1.76	0.51
2:B:596:ASN:HD22	2:B:599:VAL:HG23	1.76	0.51
2:B:858:THR:HG21	2:B:931:THR:HG22	1.92	0.51
2:B:2974:ILE:HD13	2:B:3049:LEU:HD13	1.93	0.51
2:B:3967:GLU:O	2:B:3970:GLN:HG2	2.11	0.51
2:B:3984:ARG:HH12	2:G:162:LYS:HZ2	1.57	0.51
2:E:470:SER:HA	2:E:473:ASN:HD21	1.76	0.51
2:E:904:HIS:CD2	2:E:907:LEU:H	2.29	0.51
2:E:1013:ILE:HD12	2:E:1013:ILE:H	1.76	0.51
2:E:1708:ARG:HH12	2:E:1841:VAL:HG23	1.76	0.51
2:G:2323:TRP:HZ2	2:G:2422:ILE:HG23	1.76	0.51
2:G:2792:ARG:H	2:G:2797:PHE:HD1	1.59	0.51
2:G:3360:PRO:O	2:G:3364:ARG:HG2	2.11	0.51
2:J:210:GLU:HG2	2:J:273:HIS:NE2	2.26	0.51
2:J:1519:LEU:HD11	2:J:1572:ILE:HD13	1.93	0.51
1:D:3:GLU:HB3	1:D:75:THR:HG22	1.93	0.50
2:B:276:TRP:CE2	2:B:339:ILE:HG12	2.46	0.50
2:B:1042:ALA:O	2:B:1046:LEU:HG	2.11	0.50
2:B:1975:SER:O	2:B:1979:LEU:HG	2.10	0.50
2:B:4852:THR:HG21	2:B:4883:TYR:HA	1.93	0.50
2:E:950:LEU:HD22	2:E:969:PRO:HB2	1.92	0.50
2:E:1694:LEU:HB3	2:E:1715:LEU:HD12	1.93	0.50
2:E:2355:ARG:O	2:E:2359:ARG:HG2	2.12	0.50
2:E:2799:GLU:O	2:E:2803:GLU:HG2	2.11	0.50
2:E:3360:PRO:O	2:E:3364:ARG:HG2	2.11	0.50
2:G:596:ASN:HD22	2:G:599:VAL:HG23	1.76	0.50
2:G:2380:ILE:O	2:G:2384:ILE:HG13	2.11	0.50
2:G:3887:PHE:O	2:G:3891:LEU:HG	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:492:ASP:OD1	2:J:546:TRP:NE1	2.40	0.50
2:J:2380:ILE:O	2:J:2384:ILE:HG13	2.11	0.50
2:J:2757:LYS:HZ2	2:J:2929:PHE:HZ	1.60	0.50
3:C:8:GLY:HA3	3:C:20:LEU:HA	1.93	0.50
3:F:89:ASP:HB2	3:F:125:VAL:HG21	1.92	0.50
1:D:68:LEU:HA	1:D:103:LEU:HB3	1.94	0.50
2:B:548:VAL:HG21	2:B:582:HIS:CD2	2.45	0.50
2:B:2012:PHE:CZ	2:B:2031:LEU:HD23	2.46	0.50
2:B:2136:ARG:O	2:B:2139:PRO:HD2	2.11	0.50
2:B:3080:VAL:O	2:B:3084:GLY:HA3	2.11	0.50
2:E:790:ARG:HG2	2:E:1624:LEU:O	2.11	0.50
2:E:2012:PHE:CZ	2:E:2031:LEU:HD23	2.46	0.50
2:E:2136:ARG:O	2:E:2139:PRO:HD2	2.11	0.50
2:E:3051:ARG:NH2	2:E:3101:GLU:OE2	2.45	0.50
2:E:3080:VAL:O	2:E:3084:GLY:HA3	2.11	0.50
2:E:3324:VAL:O	2:E:3327:LEU:HD22	2.11	0.50
2:G:1447:CYS:HB3	2:G:1555:LEU:HB3	1.91	0.50
2:G:3051:ARG:NH2	2:G:3101:GLU:OE2	2.45	0.50
2:J:1708:ARG:HH12	2:J:1841:VAL:HG23	1.76	0.50
2:J:2323:TRP:HZ2	2:J:2422:ILE:HG23	1.75	0.50
2:J:2382:GLU:O	2:J:2385:ARG:HG2	2.12	0.50
2:J:3586:ALA:HA	2:J:3591:LYS:HD2	1.92	0.50
1:I:3:GLU:HB3	1:I:75:THR:HG22	1.93	0.50
2:B:758:ARG:HH22	2:B:802:PHE:HB2	1.77	0.50
2:B:1708:ARG:HH12	2:B:1841:VAL:HG23	1.76	0.50
2:B:3051:ARG:NH2	2:B:3101:GLU:OE2	2.45	0.50
2:B:4904:PRO:HB2	2:B:4910:GLU:HA	1.94	0.50
2:E:58:VAL:HG12	2:E:305:CYS:HA	1.93	0.50
2:E:103:TYR:HB2	2:E:159:GLU:HA	1.93	0.50
2:E:111:HIS:CE1	2:E:113:HIS:HB3	2.46	0.50
2:E:1448:VAL:HG12	2:E:1554:VAL:HG23	1.93	0.50
2:E:3553:LEU:HB3	2:E:3593:VAL:HG12	1.92	0.50
2:E:3767:GLN:NE2	2:E:3806:ASN:HB2	2.26	0.50
2:E:3967:GLU:O	2:E:3970:GLN:HG2	2.11	0.50
2:E:4780:PHE:HA	2:E:4783:ILE:HG22	1.93	0.50
2:G:2924:GLN:O	2:G:2928:LYS:HG2	2.12	0.50
2:G:3788:GLY:HA3	2:G:3834:ALA:HB3	1.93	0.50
2:J:219:VAL:HG12	2:J:261:ARG:HB2	1.93	0.50
2:J:1694:LEU:HD13	2:J:1715:LEU:HG	1.92	0.50
2:J:4204:GLN:HE21	2:J:4248:ALA:HB3	1.76	0.50
3:K:68:THR:HG1	3:K:81:GLN:HB3	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:M:71:ARG:HH11	3:M:73:ASN:N	2.09	0.50
2:B:246:TYR:CD1	2:B:375:LYS:HA	2.46	0.50
2:B:248:GLU:HA	2:B:372:LEU:C	2.31	0.50
2:B:3788:GLY:HA3	2:B:3834:ALA:HB3	1.94	0.50
2:E:642:THR:HG21	2:E:1615:VAL:HG21	1.92	0.50
2:E:2323:TRP:HZ2	2:E:2422:ILE:HG23	1.75	0.50
2:E:3514:LEU:O	2:E:3518:LEU:HB3	2.11	0.50
2:E:4904:PRO:HB2	2:E:4910:GLU:HA	1.94	0.50
2:G:2382:GLU:O	2:G:2385:ARG:HG2	2.12	0.50
2:G:3514:LEU:O	2:G:3518:LEU:HB3	2.11	0.50
2:G:3553:LEU:HB3	2:G:3593:VAL:HG12	1.92	0.50
2:G:3906:GLN:HB3	2:G:3909:ASN:HD22	1.77	0.50
2:G:4780:PHE:HA	2:G:4783:ILE:HG22	1.93	0.50
2:J:1013:ILE:H	2:J:1013:ILE:HD12	1.76	0.50
2:J:2792:ARG:H	2:J:2797:PHE:HD1	1.59	0.50
2:J:4044:MET:O	2:J:4048:LEU:HG	2.12	0.50
2:B:58:VAL:HG12	2:B:305:CYS:HA	1.93	0.50
2:B:280:LEU:HD21	2:B:316:PHE:CE2	2.47	0.50
2:B:950:LEU:HD22	2:B:969:PRO:HB2	1.92	0.50
2:B:1735:ILE:HD11	2:B:2156:LEU:HD11	1.93	0.50
2:B:3324:VAL:O	2:B:3327:LEU:HD22	2.11	0.50
2:B:3906:GLN:HB3	2:B:3909:ASN:HD22	1.77	0.50
2:B:4204:GLN:HE21	2:B:4248:ALA:HB3	1.76	0.50
2:E:548:VAL:HG21	2:E:582:HIS:CD2	2.45	0.50
2:E:592:LYS:HG2	2:E:1580:PHE:CE1	2.47	0.50
2:E:1177:THR:OG1	2:E:1180:ARG:NH2	2.45	0.50
2:E:2124:LEU:HG	2:E:2128:TYR:CE2	2.47	0.50
2:G:1676:LEU:HD23	2:G:2168:VAL:HG22	1.93	0.50
2:G:1694:LEU:HB3	2:G:1715:LEU:HD12	1.93	0.50
2:G:4852:THR:HG21	2:G:4883:TYR:HA	1.93	0.50
2:J:596:ASN:ND2	2:J:599:VAL:HG23	2.25	0.50
2:J:1122:TYR:CE2	2:J:1182:ILE:HG12	2.44	0.50
2:J:3767:GLN:NE2	2:J:3806:ASN:HB2	2.26	0.50
1:A:68:LEU:HA	1:A:103:LEU:HB3	1.94	0.50
1:I:68:LEU:HA	1:I:103:LEU:HB3	1.93	0.50
2:B:2382:GLU:O	2:B:2385:ARG:HG2	2.12	0.50
2:B:3540:TYR:HB3	2:B:3604:TYR:CD2	2.47	0.50
2:E:169:LEU:HB2	2:E:202:MET:HE3	1.94	0.50
2:E:2382:GLU:O	2:E:2385:ARG:HG2	2.12	0.50
2:G:103:TYR:HB2	2:G:159:GLU:HA	1.93	0.50
2:G:276:TRP:CE2	2:G:339:ILE:HG12	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:993:HIS:CE1	2:G:1027:LEU:HD11	2.47	0.50
2:G:1448:VAL:HG12	2:G:1554:VAL:HG23	1.93	0.50
2:G:1653:LEU:HA	2:G:1656:ARG:HB2	1.94	0.50
2:J:592:LYS:HG2	2:J:1580:PHE:CE1	2.47	0.50
2:J:3261:ALA:HB1	2:J:3265:GLU:HB2	1.94	0.50
3:F:68:THR:HG1	3:F:81:GLN:HB3	1.76	0.50
3:K:8:GLY:HA3	3:K:20:LEU:HA	1.93	0.50
3:K:17:SER:HA	3:K:83:ASN:HA	1.93	0.50
3:K:71:ARG:HH11	3:K:73:ASN:N	2.09	0.50
2:B:1008:SER:HB2	2:B:1017:ARG:NE	2.22	0.50
2:B:1694:LEU:HB3	2:B:1715:LEU:HD12	1.93	0.50
2:B:1694:LEU:HD13	2:B:1715:LEU:HG	1.92	0.50
2:B:2124:LEU:HG	2:B:2128:TYR:CE2	2.47	0.50
2:B:3378:GLN:HA	2:B:3381:LEU:HD23	1.94	0.50
2:B:3553:LEU:HB3	2:B:3593:VAL:HG12	1.92	0.50
2:E:1975:SER:O	2:E:1979:LEU:HG	2.10	0.50
2:E:3261:ALA:HB1	2:E:3265:GLU:HB2	1.94	0.50
2:G:210:GLU:HG2	2:G:273:HIS:NE2	2.26	0.50
2:G:1578:ALA:HA	2:G:1584:ARG:HH12	1.77	0.50
2:G:3547:GLU:HA	2:G:3550:ARG:HD2	1.94	0.50
2:J:111:HIS:CE1	2:J:113:HIS:HB3	2.46	0.50
2:J:758:ARG:HH22	2:J:802:PHE:HB2	1.77	0.50
2:J:2669:GLU:HA	2:J:2672:LEU:HD13	1.94	0.50
2:J:3051:ARG:NH2	2:J:3101:GLU:OE2	2.45	0.50
1:D:25:HIS:CE1	1:D:45:PRO:HB3	2.47	0.50
2:B:169:LEU:HB2	2:B:202:MET:HE3	1.94	0.50
2:B:1177:THR:OG1	2:B:1180:ARG:NH2	2.45	0.50
2:B:2924:GLN:O	2:B:2928:LYS:HG2	2.12	0.50
2:B:3360:PRO:O	2:B:3364:ARG:HG2	2.11	0.50
2:B:3467:MET:HA	2:B:3467:MET:HE3	1.93	0.50
2:E:210:GLU:HG2	2:E:273:HIS:NE2	2.26	0.50
2:E:3442:PHE:HB2	2:E:3513:THR:HG21	1.94	0.50
2:E:4097:MET:HE2	2:E:4108:ILE:HG23	1.94	0.50
2:E:4204:GLN:HE21	2:E:4248:ALA:HB3	1.76	0.50
2:J:790:ARG:HG2	2:J:1624:LEU:O	2.11	0.50
2:J:3514:LEU:O	2:J:3518:LEU:HB3	2.11	0.50
2:J:3906:GLN:HB3	2:J:3909:ASN:HD22	1.77	0.50
3:F:71:ARG:HA	3:F:77:THR:O	2.12	0.50
1:A:25:HIS:CE1	1:A:45:PRO:HB3	2.47	0.50
2:B:1498:GLY:HA2	2:B:1501:VAL:HG12	1.92	0.50
2:B:3900:GLN:HB3	2:B:3976:ASN:ND2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4780:PHE:HA	2:B:4783:ILE:HG22	1.93	0.50
2:B:4846:VAL:O	2:B:4850:LEU:HG	2.11	0.50
2:E:246:TYR:CB	2:E:373:LYS:HE3	2.39	0.50
2:G:58:VAL:HG12	2:G:305:CYS:HA	1.93	0.50
2:G:206:CYS:SG	2:G:271:GLY:N	2.79	0.50
2:G:214:VAL:HA	2:G:341:TYR:HD1	1.76	0.50
2:G:2124:LEU:HG	2:G:2128:TYR:CE2	2.47	0.50
2:G:3080:VAL:O	2:G:3084:GLY:HA3	2.11	0.50
2:G:3384:LYS:HG2	2:G:3386:GLU:H	1.76	0.50
2:G:3900:GLN:HB3	2:G:3976:ASN:ND2	2.27	0.50
2:J:745:SER:HB2	2:J:758:ARG:HB3	1.94	0.50
2:J:993:HIS:CE1	2:J:1027:LEU:HD11	2.47	0.50
2:J:1177:THR:OG1	2:J:1180:ARG:NH2	2.45	0.50
2:J:1653:LEU:HA	2:J:1656:ARG:HB2	1.94	0.50
2:J:1680:ARG:HA	2:J:1797:ARG:HD3	1.94	0.50
3:M:17:SER:HA	3:M:83:ASN:HA	1.93	0.50
3:M:38:ARG:HH21	3:M:62:SER:HB2	1.76	0.50
3:M:71:ARG:HA	3:M:77:THR:O	2.12	0.50
3:M:72:ASP:OD1	3:M:77:THR:OG1	2.25	0.50
2:B:993:HIS:CE1	2:B:1027:LEU:HD11	2.47	0.49
2:B:4044:MET:O	2:B:4048:LEU:HG	2.12	0.49
2:E:1663:HIS:HE2	2:E:1711:TYR:HE1	1.58	0.49
2:E:2619:LEU:O	2:E:2623:LEU:HG	2.12	0.49
2:E:3378:GLN:HA	2:E:3381:LEU:HD23	1.94	0.49
2:E:3540:TYR:HB3	2:E:3604:TYR:CD2	2.47	0.49
2:G:2355:ARG:O	2:G:2359:ARG:HG2	2.11	0.49
2:G:2611:CYS:O	2:G:2650:ARG:NH1	2.43	0.49
2:G:3546:ASP:OD1	2:G:3547:GLU:N	2.44	0.49
2:G:4904:PRO:HB2	2:G:4910:GLU:HA	1.94	0.49
2:J:15:ARG:HB3	2:J:98:HIS:HB3	1.94	0.49
2:J:858:THR:HG21	2:J:931:THR:HG22	1.92	0.49
2:J:2355:ARG:O	2:J:2359:ARG:HG2	2.11	0.49
3:M:109:THR:HA	3:M:112:ASP:HB2	1.94	0.49
1:H:25:HIS:CE1	1:H:45:PRO:HB3	2.47	0.49
2:B:2355:ARG:O	2:B:2359:ARG:HG2	2.12	0.49
2:B:2619:LEU:O	2:B:2623:LEU:HG	2.12	0.49
2:E:280:LEU:HD21	2:E:316:PHE:CE2	2.47	0.49
2:E:3335:MET:HB3	2:E:3403:ARG:HD2	1.93	0.49
2:E:3788:GLY:HA3	2:E:3834:ALA:HB3	1.94	0.49
2:G:886:ARG:HB3	2:G:891:TRP:HB3	1.95	0.49
2:J:1578:ALA:HA	2:J:1584:ARG:HH12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3442:PHE:HB2	2:J:3513:THR:HG21	1.94	0.49
3:M:68:THR:HG1	3:M:81:GLN:HB3	1.77	0.49
2:B:15:ARG:HB3	2:B:98:HIS:HB3	1.94	0.49
2:B:2799:GLU:O	2:B:2803:GLU:HG2	2.11	0.49
2:B:4024:VAL:HA	2:B:4027:LEU:HG	1.94	0.49
2:B:4577:LEU:HD21	2:B:4806:ASN:HB3	1.94	0.49
2:E:596:ASN:HD22	2:E:599:VAL:HG23	1.76	0.49
2:E:842:PRO:HD3	2:E:1073:ARG:HB2	1.93	0.49
2:G:758:ARG:HH22	2:G:802:PHE:HB2	1.77	0.49
2:G:3540:TYR:HB3	2:G:3604:TYR:CD2	2.47	0.49
2:J:58:VAL:HG12	2:J:305:CYS:HA	1.93	0.49
2:J:842:PRO:HD3	2:J:1073:ARG:HB2	1.93	0.49
2:J:1431:THR:HG21	2:J:1523:ALA:HB2	1.94	0.49
2:J:2124:LEU:HG	2:J:2128:TYR:CE2	2.47	0.49
2:J:4055:VAL:O	2:J:4059:LEU:HG	2.12	0.49
2:J:4090:LYS:HB2	2:J:4121:GLU:HG2	1.95	0.49
2:J:4852:THR:HG21	2:J:4883:TYR:HA	1.93	0.49
2:J:4904:PRO:HB2	2:J:4910:GLU:HA	1.94	0.49
3:C:38:ARG:HH21	3:C:62:SER:HB2	1.77	0.49
3:C:71:ARG:HA	3:C:77:THR:O	2.12	0.49
1:D:40:ARG:HD2	2:E:677:ALA:O	2.12	0.49
2:B:842:PRO:HD3	2:B:1073:ARG:HB2	1.93	0.49
2:B:3007:ASN:OD1	2:B:3070:ILE:HG13	2.13	0.49
2:B:3384:LYS:HG2	2:B:3386:GLU:H	1.76	0.49
2:B:4055:VAL:O	2:B:4059:LEU:HG	2.12	0.49
2:E:19:GLU:HB3	2:E:205:ILE:HB	1.94	0.49
2:E:947:GLU:HA	2:E:950:LEU:HD12	1.94	0.49
2:E:2380:ILE:O	2:E:2384:ILE:HG13	2.11	0.49
2:G:1431:THR:HG21	2:G:1523:ALA:HB2	1.94	0.49
2:G:1680:ARG:HA	2:G:1797:ARG:HD3	1.94	0.49
2:G:2136:ARG:O	2:G:2139:PRO:HD2	2.11	0.49
2:G:4055:VAL:O	2:G:4059:LEU:HG	2.12	0.49
2:G:4090:LYS:HB2	2:G:4121:GLU:HG2	1.95	0.49
2:J:206:CYS:SG	2:J:271:GLY:N	2.79	0.49
2:J:1735:ILE:HD11	2:J:2156:LEU:HD11	1.93	0.49
2:J:3967:GLU:O	2:J:3970:GLN:HG2	2.12	0.49
3:F:38:ARG:HH21	3:F:62:SER:HB2	1.77	0.49
3:M:8:GLY:HA3	3:M:20:LEU:HA	1.93	0.49
2:B:1448:VAL:HG12	2:B:1554:VAL:HG23	1.93	0.49
2:B:1680:ARG:HA	2:B:1797:ARG:HD3	1.94	0.49
2:B:2527:LEU:HD11	2:B:2531:ARG:HE	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2739:PRO:HG3	2:B:2888:ARG:HG2	1.94	0.49
2:E:252:VAL:HA	2:E:255:HIS:ND1	2.28	0.49
2:E:993:HIS:CE1	2:E:1027:LEU:HD11	2.47	0.49
2:E:3384:LYS:HG2	2:E:3386:GLU:H	1.77	0.49
2:E:4021:LYS:O	2:E:4025:VAL:HG23	2.13	0.49
2:G:19:GLU:HB3	2:G:205:ILE:HB	1.94	0.49
2:G:592:LYS:HG2	2:G:1580:PHE:CE1	2.47	0.49
2:G:1735:ILE:HD11	2:G:2156:LEU:HD11	1.93	0.49
2:G:3525:CYS:HA	2:G:3595:ARG:NH1	2.27	0.49
2:G:4024:VAL:HA	2:G:4027:LEU:HG	1.94	0.49
2:J:2924:GLN:O	2:J:2928:LYS:HG2	2.12	0.49
2:J:3547:GLU:HA	2:J:3550:ARG:HD2	1.94	0.49
3:F:17:SER:HA	3:F:83:ASN:HA	1.93	0.49
1:I:25:HIS:CE1	1:I:45:PRO:HB3	2.47	0.49
2:B:103:TYR:HB2	2:B:159:GLU:HA	1.93	0.49
2:B:1518:CYS:HB3	2:B:1527:MET:HE1	1.95	0.49
2:B:2960:LEU:HD23	2:B:2963:LEU:HD12	1.95	0.49
2:B:3261:ALA:HB1	2:B:3265:GLU:HB2	1.94	0.49
2:B:3547:GLU:HA	2:B:3550:ARG:HD2	1.94	0.49
2:B:4090:LYS:HB2	2:B:4121:GLU:HG2	1.95	0.49
2:E:886:ARG:HB3	2:E:891:TRP:HB3	1.95	0.49
2:E:1680:ARG:HA	2:E:1797:ARG:HD3	1.94	0.49
2:E:1735:ILE:HD11	2:E:2156:LEU:HD11	1.93	0.49
2:E:2739:PRO:HG3	2:E:2888:ARG:HG2	1.94	0.49
2:E:2924:GLN:O	2:E:2928:LYS:HG2	2.12	0.49
2:E:3546:ASP:OD1	2:E:3547:GLU:N	2.44	0.49
2:E:3900:GLN:HB3	2:E:3976:ASN:ND2	2.27	0.49
2:E:4901:ILE:HB	2:E:4913:ARG:NH1	2.27	0.49
2:G:947:GLU:HA	2:G:950:LEU:HD12	1.94	0.49
2:G:1703:LEU:HD12	2:G:1704:PRO:HD2	1.95	0.49
2:G:2183:GLY:HA2	2:G:2186:MET:HE1	1.94	0.49
2:G:2757:LYS:HZ2	2:G:2929:PHE:HZ	1.60	0.49
2:G:3261:ALA:HB1	2:G:3265:GLU:HB2	1.94	0.49
2:G:3378:GLN:HA	2:G:3381:LEU:HD23	1.94	0.49
2:J:365:LYS:HE2	2:J:369:LEU:HD11	1.94	0.49
2:J:2136:ARG:O	2:J:2139:PRO:HD2	2.11	0.49
2:J:2458:ARG:HG2	2:J:2510:TYR:CE1	2.48	0.49
2:J:3378:GLN:HA	2:J:3381:LEU:HD23	1.94	0.49
2:J:3540:TYR:HB3	2:J:3604:TYR:CD2	2.47	0.49
3:K:71:ARG:HA	3:K:77:THR:O	2.12	0.49
1:A:3:GLU:HB3	1:A:75:THR:HG22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:745:SER:HB2	2:B:758:ARG:HB3	1.94	0.49
2:B:3788:GLY:HA2	2:B:3835:LEU:HG	1.95	0.49
2:E:745:SER:HB2	2:E:758:ARG:HB3	1.94	0.49
2:E:3547:GLU:HA	2:E:3550:ARG:HD2	1.94	0.49
2:G:2134:LEU:O	2:G:2138:LEU:HG	2.13	0.49
2:G:2303:ALA:O	2:G:2307:LEU:HG	2.12	0.49
2:G:2527:LEU:HD22	2:G:2582:MET:HE2	1.94	0.49
2:G:2799:GLU:O	2:G:2803:GLU:HG2	2.11	0.49
2:G:4901:ILE:HB	2:G:4913:ARG:NH1	2.27	0.49
2:J:103:TYR:HB2	2:J:159:GLU:HA	1.93	0.49
2:J:886:ARG:HB3	2:J:891:TRP:HB3	1.95	0.49
2:J:2204:HIS:O	2:J:2208:MET:HG2	2.13	0.49
2:J:3753:PHE:O	2:J:3757:GLU:HG2	2.13	0.49
2:J:3788:GLY:HA3	2:J:3834:ALA:HB3	1.94	0.49
2:J:4021:LYS:O	2:J:4025:VAL:HG23	2.12	0.49
3:K:38:ARG:HH21	3:K:62:SER:HB2	1.76	0.49
1:A:87:HIS:NE2	2:B:1786:LEU:HB2	2.28	0.49
2:B:214:VAL:HA	2:B:341:TYR:HD1	1.76	0.49
2:B:2494:PHE:HE1	2:B:2499:LYS:HG3	1.78	0.49
2:B:3525:CYS:HA	2:B:3595:ARG:NH1	2.27	0.49
2:B:4904:PRO:HG3	2:B:4913:ARG:HB3	1.95	0.49
2:E:758:ARG:HH22	2:E:802:PHE:HB2	1.77	0.49
2:E:1431:THR:HG21	2:E:1523:ALA:HB2	1.94	0.49
2:E:3906:GLN:HB3	2:E:3909:ASN:HD22	1.77	0.49
2:E:4044:MET:O	2:E:4048:LEU:HG	2.12	0.49
2:G:2888:ARG:HH11	2:G:2891:LYS:NZ	2.11	0.49
2:G:4044:MET:O	2:G:4048:LEU:HG	2.12	0.49
2:G:4577:LEU:HD21	2:G:4806:ASN:HB3	1.95	0.49
2:G:4904:PRO:HG3	2:G:4913:ARG:HB3	1.95	0.49
2:J:2423:MET:HE3	2:J:2494:PHE:CD2	2.47	0.49
2:J:2595:LEU:HB2	2:J:2600:ARG:HG3	1.95	0.49
2:B:592:LYS:HG2	2:B:1580:PHE:CE1	2.47	0.49
2:B:947:GLU:HA	2:B:950:LEU:HD12	1.94	0.49
2:B:1653:LEU:HA	2:B:1656:ARG:HB2	1.94	0.49
2:B:2303:ALA:O	2:B:2307:LEU:HG	2.12	0.49
2:B:2522:LEU:HA	2:B:2526:PHE:HB2	1.95	0.49
2:B:4062:PHE:O	2:B:4066:LEU:HG	2.13	0.49
2:B:4901:ILE:HB	2:B:4913:ARG:NH1	2.27	0.49
2:E:15:ARG:HB3	2:E:98:HIS:HB3	1.94	0.49
2:E:2204:HIS:O	2:E:2208:MET:HG2	2.13	0.49
2:E:4090:LYS:HB2	2:E:4121:GLU:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:169:LEU:HB2	2:G:202:MET:HE3	1.95	0.49
2:G:2364:PHE:CD1	2:G:2429:LEU:HD21	2.47	0.49
2:G:2619:LEU:O	2:G:2623:LEU:HG	2.12	0.49
2:G:2960:LEU:HD23	2:G:2963:LEU:HD12	1.95	0.49
2:G:3007:ASN:OD1	2:G:3070:ILE:HG13	2.13	0.49
2:G:3788:GLY:HA2	2:G:3835:LEU:HG	1.95	0.49
2:J:1703:LEU:HD12	2:J:1704:PRO:HD2	1.95	0.49
2:J:2619:LEU:O	2:J:2623:LEU:HG	2.13	0.49
2:J:2739:PRO:HG3	2:J:2888:ARG:HG2	1.94	0.49
2:J:4914:VAL:O	2:J:4918:ILE:HG12	2.13	0.49
2:B:1122:TYR:CE2	2:B:1182:ILE:HG12	2.45	0.49
2:B:2380:ILE:O	2:B:2384:ILE:HG13	2.11	0.49
2:E:2960:LEU:HD23	2:E:2963:LEU:HD12	1.95	0.49
2:E:3007:ASN:OD1	2:E:3070:ILE:HG13	2.13	0.49
2:E:3525:CYS:HA	2:E:3595:ARG:NH1	2.28	0.49
2:E:3601:ALA:O	2:E:3605:HIS:ND1	2.46	0.49
2:E:4024:VAL:HA	2:E:4027:LEU:HG	1.95	0.49
2:G:842:PRO:HD3	2:G:1073:ARG:HB2	1.93	0.49
2:G:2669:GLU:HA	2:G:2672:LEU:HD13	1.94	0.49
2:G:4680:LYS:O	2:G:4685:GLY:N	2.43	0.49
2:J:248:GLU:HB2	2:J:373:LYS:CD	2.37	0.49
2:J:252:VAL:HA	2:J:255:HIS:ND1	2.28	0.49
3:C:68:THR:HG1	3:C:81:GLN:HB3	1.78	0.49
3:M:38:ARG:HE	3:M:62:SER:HB2	1.78	0.49
2:B:661:LYS:HB3	2:B:808:TYR:HA	1.94	0.48
2:B:886:ARG:HB3	2:B:891:TRP:HB3	1.95	0.48
2:B:3442:PHE:HB2	2:B:3513:THR:HG21	1.94	0.48
2:B:4021:LYS:O	2:B:4025:VAL:HG23	2.13	0.48
2:B:4040:ILE:HD11	2:B:4044:MET:HE3	1.95	0.48
2:E:1122:TYR:CE2	2:E:1182:ILE:HG12	2.45	0.48
2:G:2177:LEU:HD13	2:G:2180:GLN:NE2	2.28	0.48
2:G:2522:LEU:HA	2:G:2526:PHE:HB2	1.95	0.48
2:G:3753:PHE:O	2:G:3757:GLU:HG2	2.13	0.48
2:G:4040:ILE:HD11	2:G:4044:MET:HE3	1.94	0.48
2:J:2134:LEU:O	2:J:2138:LEU:HG	2.13	0.48
2:J:2303:ALA:O	2:J:2307:LEU:HG	2.12	0.48
2:J:2881:ASN:HA	2:J:2884:ASN:HD21	1.78	0.48
2:J:3900:GLN:HB3	2:J:3976:ASN:ND2	2.27	0.48
1:H:40:ARG:HD2	2:G:677:ALA:O	2.13	0.48
1:I:40:ARG:HD2	2:J:677:ALA:O	2.14	0.48
2:B:1578:ALA:HA	2:B:1584:ARG:HH12	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3516:LYS:HG3	2:B:3517:MET:N	2.29	0.48
2:E:1758:ARG:HH22	2:E:2036:GLN:HG3	1.79	0.48
2:E:2881:ASN:HA	2:E:2884:ASN:HD21	1.78	0.48
2:E:2888:ARG:HH11	2:E:2891:LYS:NZ	2.11	0.48
2:G:280:LEU:HD21	2:G:316:PHE:CE2	2.47	0.48
2:G:661:LYS:HB3	2:G:808:TYR:HA	1.95	0.48
2:G:3072:ALA:HB1	2:G:3143:LEU:HD13	1.95	0.48
2:G:3442:PHE:HB2	2:G:3513:THR:HG21	1.94	0.48
2:G:3601:ALA:O	2:G:3605:HIS:ND1	2.46	0.48
2:G:4914:VAL:O	2:G:4918:ILE:HG12	2.13	0.48
2:J:246:TYR:HB2	2:J:373:LYS:CE	2.40	0.48
2:J:268:SER:HB3	2:J:269:TRP:HE3	1.78	0.48
2:J:3007:ASN:OD1	2:J:3070:ILE:HG13	2.13	0.48
2:J:3790:THR:OG1	2:J:3838:THR:OG1	2.21	0.48
2:J:4062:PHE:O	2:J:4066:LEU:HG	2.13	0.48
2:B:252:VAL:HA	2:B:255:HIS:ND1	2.28	0.48
2:B:2134:LEU:O	2:B:2138:LEU:HG	2.13	0.48
2:B:3780:LEU:HD11	2:B:3816:MET:HB2	1.95	0.48
2:E:214:VAL:HA	2:E:341:TYR:HD1	1.76	0.48
2:E:1256:GLU:OE1	2:E:1271:ARG:NH2	2.46	0.48
2:E:1653:LEU:HA	2:E:1656:ARG:HB2	1.94	0.48
2:E:2303:ALA:O	2:E:2307:LEU:HG	2.12	0.48
2:E:3753:PHE:O	2:E:3757:GLU:HG2	2.13	0.48
2:E:4062:PHE:O	2:E:4066:LEU:HG	2.13	0.48
2:G:3651:ASN:O	2:G:3655:GLU:HG2	2.14	0.48
2:J:110:ARG:HD2	2:J:115:ARG:HH21	1.79	0.48
2:J:214:VAL:HA	2:J:341:TYR:HD1	1.76	0.48
2:J:3525:CYS:HA	2:J:3595:ARG:NH1	2.27	0.48
2:J:3651:ASN:O	2:J:3655:GLU:HG2	2.14	0.48
2:J:4040:ILE:HD11	2:J:4044:MET:HE3	1.95	0.48
2:J:4097:MET:HE2	2:J:4108:ILE:HG23	1.95	0.48
3:C:68:THR:OG1	3:C:81:GLN:HB3	2.14	0.48
3:F:38:ARG:HE	3:F:62:SER:HB2	1.78	0.48
3:M:68:THR:OG1	3:M:81:GLN:HB3	2.14	0.48
3:M:99:ARG:HD3	3:M:114:TYR:CD2	2.48	0.48
2:B:268:SER:HB3	2:B:269:TRP:HE3	1.78	0.48
2:B:2669:GLU:HA	2:B:2672:LEU:HD13	1.94	0.48
2:B:2747:ILE:HD12	2:B:2748:PRO:HD2	1.95	0.48
2:B:2757:LYS:HZ2	2:B:2929:PHE:HZ	1.61	0.48
2:B:3753:PHE:O	2:B:3757:GLU:HG2	2.13	0.48
2:E:661:LYS:HB3	2:E:808:TYR:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1835:GLU:HG2	2:E:1836:PHE:N	2.29	0.48
2:E:2747:ILE:HD12	2:E:2748:PRO:HD2	1.95	0.48
2:E:3780:LEU:HD11	2:E:3816:MET:HB2	1.96	0.48
2:G:1177:THR:OG1	2:G:1180:ARG:NH2	2.45	0.48
2:G:2204:HIS:O	2:G:2208:MET:HG2	2.13	0.48
2:G:2458:ARG:HG2	2:G:2510:TYR:CE1	2.48	0.48
2:G:2624:ARG:HH22	2:G:2912:THR:HG22	1.78	0.48
2:G:2739:PRO:HG3	2:G:2888:ARG:HG2	1.94	0.48
2:J:947:GLU:HA	2:J:950:LEU:HD12	1.94	0.48
2:J:2489:LYS:HB3	2:J:2492:ALA:HB3	1.95	0.48
2:J:2522:LEU:HA	2:J:2526:PHE:HB2	1.95	0.48
2:J:4901:ILE:HB	2:J:4913:ARG:NH1	2.27	0.48
3:K:4:LEU:HD22	3:K:95:CYS:O	2.14	0.48
1:D:87:HIS:NE2	2:E:1786:LEU:HB2	2.27	0.48
2:B:597:HIS:HB2	2:B:1665:HIS:CE1	2.49	0.48
2:B:2323:TRP:CZ2	2:B:2422:ILE:HD12	2.49	0.48
2:B:2888:ARG:HH11	2:B:2891:LYS:NZ	2.11	0.48
2:B:3072:ALA:HB1	2:B:3143:LEU:HD13	1.95	0.48
2:B:4680:LYS:O	2:B:4685:GLY:N	2.43	0.48
2:E:1703:LEU:HD12	2:E:1704:PRO:HD2	1.95	0.48
2:E:2527:LEU:HD11	2:E:2531:ARG:HE	1.77	0.48
2:G:45:ARG:HH22	2:G:443:LEU:HD21	1.79	0.48
2:G:2489:LYS:HB3	2:G:2492:ALA:HB3	1.95	0.48
2:G:2759:ALA:HB2	2:G:2810:LYS:HZ1	1.79	0.48
2:J:1835:GLU:HG2	2:J:1836:PHE:N	2.29	0.48
2:J:2960:LEU:HD23	2:J:2963:LEU:HD12	1.95	0.48
2:J:3788:GLY:HA2	2:J:3835:LEU:HG	1.95	0.48
3:F:68:THR:OG1	3:F:81:GLN:HB3	2.14	0.48
3:K:99:ARG:HD3	3:K:114:TYR:CD2	2.49	0.48
1:I:87:HIS:NE2	2:J:1786:LEU:HB2	2.28	0.48
2:B:19:GLU:HB3	2:B:205:ILE:HB	1.94	0.48
2:B:217:GLY:N	2:B:262:LEU:O	2.46	0.48
2:B:1927:LEU:O	2:B:2104:ARG:NH2	2.42	0.48
2:B:2458:ARG:HG2	2:B:2510:TYR:CE1	2.48	0.48
2:E:2494:PHE:HE1	2:E:2499:LYS:HG3	1.78	0.48
2:E:2522:LEU:HA	2:E:2526:PHE:HB2	1.95	0.48
2:E:2595:LEU:HB2	2:E:2600:ARG:HG3	1.95	0.48
2:G:2376:LEU:O	2:G:2380:ILE:HG12	2.14	0.48
2:G:2494:PHE:HE1	2:G:2499:LYS:HG3	1.78	0.48
2:G:3173:TYR:CD2	2:G:3243:ILE:HG12	2.49	0.48
2:J:246:TYR:CB	2:J:373:LYS:HE3	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2177:LEU:HD13	2:J:2180:GLN:NE2	2.28	0.48
2:J:2527:LEU:HD11	2:J:2531:ARG:HE	1.77	0.48
2:J:4211:LYS:O	2:J:4214:LYS:HG3	2.14	0.48
2:B:1703:LEU:HD12	2:B:1704:PRO:HD2	1.95	0.48
2:B:3731:LYS:O	2:B:3735:LEU:HG	2.14	0.48
2:B:4914:VAL:O	2:B:4918:ILE:HG12	2.13	0.48
2:E:2458:ARG:HG2	2:E:2510:TYR:CE1	2.48	0.48
2:E:3516:LYS:HG3	2:E:3517:MET:N	2.28	0.48
2:E:3651:ASN:O	2:E:3655:GLU:HG2	2.14	0.48
2:E:4914:VAL:O	2:E:4918:ILE:HG12	2.13	0.48
2:E:4958:CYS:SG	2:E:4959:PHE:N	2.87	0.48
2:G:3516:LYS:HG3	2:G:3517:MET:N	2.29	0.48
2:G:3984:ARG:HH12	2:J:162:LYS:HZ2	1.59	0.48
2:G:3992:PHE:HA	2:G:3995:VAL:HG22	1.96	0.48
2:G:4021:LYS:O	2:G:4025:VAL:HG23	2.13	0.48
2:J:3731:LYS:O	2:J:3735:LEU:HG	2.14	0.48
2:J:3780:LEU:HD11	2:J:3816:MET:HB2	1.95	0.48
3:K:68:THR:OG1	3:K:81:GLN:HB3	2.14	0.48
1:A:40:ARG:HD2	2:B:677:ALA:O	2.13	0.48
2:B:246:TYR:CB	2:B:373:LYS:HE3	2.39	0.48
2:B:3601:ALA:O	2:B:3605:HIS:ND1	2.46	0.48
2:B:3651:ASN:O	2:B:3655:GLU:HG2	2.14	0.48
2:B:3752:SER:O	2:B:3756:LYS:HG3	2.14	0.48
2:B:4992:LEU:O	2:B:4996:ILE:HG13	2.14	0.48
2:E:2177:LEU:HD13	2:E:2180:GLN:NE2	2.28	0.48
2:E:3103:ILE:O	2:E:3107:VAL:HG13	2.14	0.48
2:E:3995:VAL:HG23	2:E:3999:MET:HE1	1.94	0.48
2:E:4055:VAL:O	2:E:4059:LEU:HG	2.12	0.48
2:G:217:GLY:N	2:G:262:LEU:O	2.47	0.48
2:G:252:VAL:HA	2:G:255:HIS:ND1	2.28	0.48
2:G:1274:HIS:N	2:G:1559:GLN:O	2.47	0.48
2:G:1518:CYS:HB3	2:G:1527:MET:HE1	1.96	0.48
2:G:2881:ASN:HA	2:G:2884:ASN:HD21	1.78	0.48
2:G:3445:TRP:CE2	2:G:3509:LEU:HG	2.49	0.48
2:G:3752:SER:O	2:G:3756:LYS:HG3	2.14	0.48
2:G:4062:PHE:O	2:G:4066:LEU:HG	2.13	0.48
2:J:1758:ARG:HH22	2:J:2036:GLN:HG3	1.78	0.48
2:J:2968:ASP:HA	2:J:2971:GLN:HG2	1.96	0.48
2:J:3072:ALA:HB1	2:J:3143:LEU:HD13	1.95	0.48
2:J:3601:ALA:O	2:J:3605:HIS:ND1	2.46	0.48
2:J:3850:GLN:NE2	2:J:3872:GLU:OE1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:4577:LEU:HD21	2:J:4806:ASN:HB3	1.95	0.48
3:C:4:LEU:HD22	3:C:95:CYS:O	2.14	0.48
3:C:99:ARG:HD3	3:C:114:TYR:CD2	2.48	0.48
1:I:55:VAL:HG23	2:J:1783:VAL:HB	1.96	0.48
2:B:1431:THR:HG21	2:B:1523:ALA:HB2	1.94	0.48
2:B:2364:PHE:CD1	2:B:2429:LEU:HD21	2.47	0.48
2:B:3312:LEU:HB2	2:B:3345:ILE:HD11	1.96	0.48
2:B:3992:PHE:HA	2:B:3995:VAL:HG22	1.96	0.48
2:E:823:LEU:HB2	2:E:1617:THR:HB	1.96	0.48
2:E:2377:LEU:HD22	2:E:2468:GLY:HA3	1.96	0.48
2:E:2489:LYS:HB3	2:E:2492:ALA:HB3	1.95	0.48
2:E:2669:GLU:HA	2:E:2672:LEU:HD13	1.94	0.48
2:G:360:ALA:O	2:G:361:ALA:C	2.52	0.48
2:G:2109:ASP:HA	2:G:3694:LYS:HD2	1.96	0.48
2:G:2313:LEU:HG	2:G:2318:TYR:HB2	1.96	0.48
2:G:4000:MET:SD	2:G:4001:MET:N	2.87	0.48
2:G:4992:LEU:O	2:G:4996:ILE:HG13	2.14	0.48
2:J:45:ARG:HH22	2:J:443:LEU:HD21	1.79	0.48
2:J:280:LEU:HD21	2:J:316:PHE:CE2	2.47	0.48
2:J:661:LYS:HB3	2:J:808:TYR:HA	1.95	0.48
2:J:2109:ASP:HA	2:J:3694:LYS:HD2	1.96	0.48
2:J:2376:LEU:O	2:J:2380:ILE:HG12	2.14	0.48
2:J:2888:ARG:HH11	2:J:2891:LYS:NZ	2.11	0.48
2:J:3992:PHE:HA	2:J:3995:VAL:HG22	1.96	0.48
3:K:38:ARG:HE	3:K:62:SER:HB2	1.78	0.48
2:B:1641:ILE:HB	2:B:1644:GLU:HB2	1.96	0.48
2:B:4958:CYS:SG	2:B:4959:PHE:N	2.87	0.48
2:B:5014:TYR:HD1	2:B:5019:TRP:HZ3	1.62	0.48
2:E:3445:TRP:CE2	2:E:3509:LEU:HG	2.49	0.48
2:E:5014:TYR:HD1	2:E:5019:TRP:HZ3	1.62	0.48
2:G:268:SER:HB3	2:G:269:TRP:HE3	1.78	0.48
2:G:535:ALA:O	2:G:539:LEU:HG	2.14	0.48
2:G:2323:TRP:CZ2	2:G:2422:ILE:HD12	2.49	0.48
2:G:2527:LEU:HD11	2:G:2531:ARG:HE	1.77	0.48
2:G:2595:LEU:HB2	2:G:2600:ARG:HG3	1.95	0.48
2:G:3951:PHE:HB3	2:G:3955:MET:HE1	1.96	0.48
2:G:4211:LYS:O	2:G:4214:LYS:HG3	2.14	0.48
2:J:823:LEU:HB2	2:J:1617:THR:HB	1.96	0.48
2:J:939:VAL:HA	2:J:1051:TYR:HB3	1.96	0.48
2:J:2313:LEU:HG	2:J:2318:TYR:HB2	1.96	0.48
2:J:2323:TRP:CZ2	2:J:2422:ILE:HD12	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:4000:MET:SD	2:J:4001:MET:N	2.87	0.48
2:J:4680:LYS:O	2:J:4685:GLY:N	2.43	0.48
2:J:5014:TYR:HD1	2:J:5019:TRP:HZ3	1.62	0.48
3:F:4:LEU:HD22	3:F:95:CYS:O	2.14	0.48
3:F:99:ARG:HD3	3:F:114:TYR:CD2	2.49	0.48
2:B:1081:TYR:CZ	2:B:1234:VAL:HG13	2.49	0.47
2:B:2377:LEU:HD22	2:B:2468:GLY:HA3	1.96	0.47
2:B:3173:TYR:CD2	2:B:3243:ILE:HG12	2.49	0.47
2:B:3445:TRP:CE2	2:B:3509:LEU:HG	2.49	0.47
2:E:3278:CYS:SG	2:E:3341:PHE:HB3	2.54	0.47
2:E:3731:LYS:O	2:E:3735:LEU:HG	2.14	0.47
2:E:4040:ILE:HD11	2:E:4044:MET:HE3	1.96	0.47
2:G:15:ARG:HB3	2:G:98:HIS:HB3	1.94	0.47
2:G:758:ARG:HH11	2:G:761:GLY:HA2	1.79	0.47
2:G:2679:PHE:HB2	2:G:2706:ILE:HG21	1.96	0.47
2:G:3780:LEU:HD11	2:G:3816:MET:HB2	1.96	0.47
2:G:5014:TYR:HD1	2:G:5019:TRP:HZ3	1.62	0.47
2:J:1274:HIS:N	2:J:1559:GLN:O	2.47	0.47
2:J:2624:ARG:HH22	2:J:2912:THR:HG22	1.78	0.47
2:J:2747:ILE:HD12	2:J:2748:PRO:HD2	1.95	0.47
2:J:3103:ILE:O	2:J:3107:VAL:HG13	2.14	0.47
2:J:3413:ILE:HA	2:J:3516:LYS:HZ1	1.77	0.47
2:B:1274:HIS:N	2:B:1559:GLN:O	2.47	0.47
2:B:2527:LEU:HB2	2:B:2582:MET:HE1	1.95	0.47
2:B:3850:GLN:NE2	2:B:3872:GLU:OE1	2.47	0.47
2:E:110:ARG:HD2	2:E:115:ARG:HH21	1.79	0.47
2:E:246:TYR:HB2	2:E:373:LYS:CE	2.39	0.47
2:E:2538:THR:O	2:E:2542:SER:N	2.47	0.47
2:E:3072:ALA:HB1	2:E:3143:LEU:HD13	1.95	0.47
2:E:3725:TYR:HA	2:E:3728:ILE:HG12	1.96	0.47
2:E:3788:GLY:HA2	2:E:3835:LEU:HG	1.95	0.47
2:E:4000:MET:SD	2:E:4001:MET:N	2.87	0.47
2:E:4577:LEU:HD21	2:E:4806:ASN:HB3	1.95	0.47
2:E:4992:LEU:O	2:E:4996:ILE:HG13	2.14	0.47
2:G:664:PHE:CZ	2:G:779:PRO:HB3	2.50	0.47
2:G:745:SER:HB2	2:G:758:ARG:HB3	1.94	0.47
2:G:1081:TYR:CZ	2:G:1234:VAL:HG13	2.49	0.47
2:G:2747:ILE:HD12	2:G:2748:PRO:HD2	1.95	0.47
2:G:3850:GLN:NE2	2:G:3872:GLU:OE1	2.47	0.47
2:G:4222:VAL:HG11	2:G:4950:VAL:HA	1.96	0.47
2:J:535:ALA:O	2:J:539:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1641:ILE:HB	2:J:1644:GLU:HB2	1.96	0.47
2:J:2203:MET:SD	2:J:2204:HIS:N	2.87	0.47
2:J:3173:TYR:CD2	2:J:3243:ILE:HG12	2.49	0.47
3:M:4:LEU:HD22	3:M:95:CYS:O	2.14	0.47
2:B:1078:GLU:HB3	2:B:1081:TYR:CD2	2.50	0.47
2:B:2204:HIS:O	2:B:2208:MET:HG2	2.13	0.47
2:B:2376:LEU:O	2:B:2380:ILE:HG12	2.14	0.47
2:E:1578:ALA:HA	2:E:1584:ARG:HH12	1.77	0.47
2:E:2474:LEU:HD21	2:E:2494:PHE:CD1	2.50	0.47
2:E:2624:ARG:HH22	2:E:2912:THR:HG22	1.78	0.47
2:E:3173:TYR:CD2	2:E:3243:ILE:HG12	2.49	0.47
2:G:3312:LEU:HB2	2:G:3345:ILE:HD11	1.96	0.47
2:J:901:LYS:HD3	2:J:903:LEU:HD11	1.97	0.47
2:J:2494:PHE:HE1	2:J:2499:LYS:HG3	1.78	0.47
2:J:2668:SER:O	2:J:2672:LEU:HD12	2.15	0.47
2:J:2869:ARG:NH2	2:J:2870[B]:GLU:HG3	2.30	0.47
2:J:3278:CYS:SG	2:J:3341:PHE:HB3	2.54	0.47
2:J:3445:TRP:CE2	2:J:3509:LEU:HG	2.49	0.47
3:C:38:ARG:HE	3:C:62:SER:HB2	1.78	0.47
2:B:758:ARG:HH11	2:B:761:GLY:HA2	1.79	0.47
2:B:2177:LEU:HD13	2:B:2180:GLN:NE2	2.28	0.47
2:B:2321:ILE:HD11	2:B:2418:LEU:HB2	1.97	0.47
2:B:2474:LEU:HD21	2:B:2494:PHE:CD1	2.50	0.47
2:B:2869:ARG:NH2	2:B:2870[B]:GLU:HG3	2.30	0.47
2:E:597:HIS:HB2	2:E:1665:HIS:CE1	2.49	0.47
2:E:1274:HIS:N	2:E:1559:GLN:O	2.47	0.47
2:E:2134:LEU:O	2:E:2138:LEU:HG	2.13	0.47
2:E:2376:LEU:O	2:E:2380:ILE:HG12	2.14	0.47
2:E:2668:SER:O	2:E:2672:LEU:HD12	2.15	0.47
2:E:3512:ALA:HA	2:E:3516:LYS:HE3	1.97	0.47
2:G:1641:ILE:HB	2:G:1644:GLU:HB2	1.96	0.47
2:G:2474:LEU:HD21	2:G:2494:PHE:CD1	2.50	0.47
2:J:217:GLY:N	2:J:262:LEU:O	2.46	0.47
2:J:597:HIS:HB2	2:J:1665:HIS:CE1	2.49	0.47
2:J:1256:GLU:OE1	2:J:1271:ARG:NH2	2.46	0.47
1:A:68:LEU:C	1:A:70:GLN:H	2.18	0.47
2:B:308:HIS:O	2:B:312:THR:OG1	2.25	0.47
2:B:1808:ARG:HD3	2:B:1854:PHE:HA	1.96	0.47
2:B:2959:PHE:O	2:B:2963:LEU:HG	2.15	0.47
2:B:3103:ILE:O	2:B:3107:VAL:HG13	2.14	0.47
2:E:460:GLN:HB2	2:E:463:GLU:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:669:ASP:O	2:E:740:PRO:HB3	2.15	0.47
2:E:939:VAL:HA	2:E:1051:TYR:HB3	1.96	0.47
2:E:2203:MET:SD	2:E:2204:HIS:N	2.87	0.47
2:E:2968:ASP:HA	2:E:2971:GLN:HG2	1.96	0.47
2:E:3514:LEU:HA	2:E:3518:LEU:HB2	1.97	0.47
2:G:110:ARG:HD2	2:G:115:ARG:HH21	1.79	0.47
2:G:2512:ILE:HG21	2:G:2518:LEU:HB2	1.96	0.47
2:G:2538:THR:O	2:G:2542:SER:N	2.47	0.47
2:J:2321:ILE:HD11	2:J:2418:LEU:HB2	1.97	0.47
2:J:2474:LEU:HD21	2:J:2494:PHE:CD1	2.50	0.47
2:J:3178:THR:O	2:J:3187:ARG:NH2	2.48	0.47
2:J:4992:LEU:O	2:J:4996:ILE:HG13	2.14	0.47
1:A:55:VAL:HG23	2:B:1783:VAL:HB	1.95	0.47
1:D:68:LEU:C	1:D:70:GLN:H	2.18	0.47
2:B:1835:GLU:HG2	2:B:1836:PHE:N	2.29	0.47
2:B:2624:ARG:HH22	2:B:2912:THR:HG22	1.78	0.47
2:B:4000:MET:SD	2:B:4001:MET:N	2.87	0.47
2:B:4097:MET:HE2	2:B:4108:ILE:HG23	1.97	0.47
2:B:4222:VAL:HG11	2:B:4950:VAL:HA	1.97	0.47
2:E:501:ALA:O	2:E:505:GLU:HG2	2.15	0.47
2:E:1078:GLU:HB3	2:E:1081:TYR:CD2	2.50	0.47
2:E:2323:TRP:CZ2	2:E:2422:ILE:HD12	2.49	0.47
2:E:3289:PRO:HG3	2:E:3303:PRO:HG2	1.97	0.47
2:E:4211:LYS:O	2:E:4214:LYS:HG3	2.14	0.47
2:G:102:LEU:HD13	2:G:160:GLY:HA2	1.97	0.47
2:G:460:GLN:HB2	2:G:463:GLU:HG2	1.96	0.47
2:G:823:LEU:HB2	2:G:1617:THR:HB	1.96	0.47
2:G:901:LYS:HD3	2:G:903:LEU:HD11	1.97	0.47
2:G:939:VAL:HA	2:G:1051:TYR:HB3	1.97	0.47
2:G:1758:ARG:NH2	2:G:2040:ALA:HB2	2.30	0.47
2:G:1758:ARG:HH22	2:G:2036:GLN:HG3	1.78	0.47
2:G:1835:GLU:HG2	2:G:1836:PHE:N	2.29	0.47
2:G:2203:MET:SD	2:G:2204:HIS:N	2.87	0.47
2:G:2740:VAL:HG21	2:G:2819:TRP:HE1	1.80	0.47
2:G:2959:PHE:O	2:G:2963:LEU:HG	2.15	0.47
2:G:2960:LEU:O	2:G:2964:LEU:HG	2.15	0.47
2:G:3278:CYS:SG	2:G:3341:PHE:HB3	2.54	0.47
2:J:669:ASP:O	2:J:740:PRO:HB3	2.15	0.47
2:J:2679:PHE:HB2	2:J:2706:ILE:HG21	1.96	0.47
2:J:2960:LEU:O	2:J:2964:LEU:HG	2.15	0.47
2:J:4904:PRO:HG3	2:J:4913:ARG:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:45:ARG:HH22	2:B:443:LEU:HD21	1.79	0.47
2:B:460:GLN:HB2	2:B:463:GLU:HG2	1.96	0.47
2:B:664:PHE:CZ	2:B:779:PRO:HB3	2.50	0.47
2:B:1158:ASN:HB3	2:B:1182:ILE:N	2.28	0.47
2:B:2203:MET:SD	2:B:2204:HIS:N	2.87	0.47
2:B:2595:LEU:HB2	2:B:2600:ARG:HG3	1.95	0.47
2:B:2960:LEU:O	2:B:2964:LEU:HG	2.15	0.47
2:B:3155:ASP:O	2:B:3158:LEU:HD22	2.15	0.47
2:B:3172:ILE:HG23	2:B:3194:LEU:HD12	1.97	0.47
2:B:3512:ALA:HA	2:B:3516:LYS:HE3	1.97	0.47
2:B:4184:MET:HA	2:B:4190:ILE:HD13	1.97	0.47
2:B:4640:GLU:HB3	2:B:4641:PRO:HD3	1.97	0.47
2:B:4960:ILE:HG13	2:B:4983:HIS:HB3	1.97	0.47
2:E:45:ARG:HH22	2:E:443:LEU:HD21	1.79	0.47
2:E:144:GLU:HG3	2:E:175:SER:HB2	1.97	0.47
2:E:268:SER:HB3	2:E:269:TRP:HE3	1.78	0.47
2:E:492:ASP:OD1	2:E:546:TRP:NE1	2.40	0.47
2:E:595:ARG:HB3	2:E:1662:PHE:CE1	2.50	0.47
2:E:1081:TYR:CZ	2:E:1234:VAL:HG13	2.49	0.47
2:E:1289:LEU:HB2	2:E:1552:VAL:HG23	1.97	0.47
2:E:1808:ARG:HD3	2:E:1854:PHE:HA	1.96	0.47
2:E:1927:LEU:O	2:E:2104:ARG:NH2	2.42	0.47
2:E:2313:LEU:HG	2:E:2318:TYR:HB2	1.96	0.47
2:E:2527:LEU:HB2	2:E:2582:MET:HE1	1.96	0.47
2:E:2821:TRP:HD1	2:E:2939:ARG:HA	1.79	0.47
2:E:2879:ALA:HA	2:E:2882:TYR:CD2	2.50	0.47
2:E:2888:ARG:HH11	2:E:2891:LYS:HZ1	1.61	0.47
2:E:2960:LEU:O	2:E:2964:LEU:HG	2.15	0.47
2:E:4904:PRO:HG3	2:E:4913:ARG:HB3	1.95	0.47
2:G:492:ASP:OD1	2:G:546:TRP:NE1	2.40	0.47
2:G:597:HIS:HB2	2:G:1665:HIS:CE1	2.49	0.47
2:G:1951:LEU:HD11	2:G:2134:LEU:HA	1.97	0.47
2:G:2321:ILE:HD11	2:G:2418:LEU:HB2	1.97	0.47
2:G:2668:SER:O	2:G:2672:LEU:HD12	2.15	0.47
2:G:2869:ARG:NH2	2:G:2870[B]:GLU:HG3	2.30	0.47
2:G:3103:ILE:O	2:G:3107:VAL:HG13	2.14	0.47
2:G:3178:THR:O	2:G:3187:ARG:NH2	2.48	0.47
2:G:3262:ARG:HG2	2:G:3329:ILE:HD11	1.97	0.47
2:G:4184:MET:HA	2:G:4190:ILE:HD13	1.97	0.47
2:G:4192:ARG:HB2	2:G:5028:PHE:CZ	2.49	0.47
2:J:102:LEU:HD13	2:J:160:GLY:HA2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:341:TYR:CE2	2:J:392:ARG:HB2	2.50	0.47
2:J:595:ARG:HB3	2:J:1662:PHE:CE1	2.50	0.47
2:J:1927:LEU:O	2:J:2104:ARG:NH2	2.42	0.47
2:J:2959:PHE:O	2:J:2963:LEU:HG	2.15	0.47
2:J:3514:LEU:HA	2:J:3518:LEU:HB2	1.97	0.47
2:J:3752:SER:O	2:J:3756:LYS:HG3	2.14	0.47
3:C:6:GLU:OE1	3:C:22:CYS:HB2	2.15	0.47
2:B:492:ASP:OD1	2:B:546:TRP:NE1	2.40	0.47
2:B:1758:ARG:HH22	2:B:2036:GLN:HG3	1.78	0.47
2:B:2423:MET:HE3	2:B:2494:PHE:CD2	2.50	0.47
2:B:2676:ARG:HH12	2:B:2955:PHE:HB2	1.80	0.47
2:B:2740:VAL:HG21	2:B:2819:TRP:HE1	1.80	0.47
2:B:2881:ASN:HA	2:B:2884:ASN:HD21	1.78	0.47
2:B:2968:ASP:HA	2:B:2971:GLN:HG2	1.96	0.47
2:B:3278:CYS:SG	2:B:3341:PHE:HB3	2.54	0.47
2:B:3725:TYR:HA	2:B:3728:ILE:HG12	1.96	0.47
2:B:4192:ARG:HB2	2:B:5028:PHE:CZ	2.50	0.47
2:E:341:TYR:CE2	2:E:392:ARG:HB2	2.50	0.47
2:E:2512:ILE:HG21	2:E:2518:LEU:HB2	1.96	0.47
2:E:2679:PHE:HB2	2:E:2706:ILE:HG21	1.96	0.47
2:E:3850:GLN:NE2	2:E:3872:GLU:OE1	2.47	0.47
2:G:341:TYR:CE2	2:G:392:ARG:HB2	2.50	0.47
2:G:2423:MET:HE3	2:G:2494:PHE:CD2	2.50	0.47
2:G:4640:GLU:HB3	2:G:4641:PRO:HD3	1.97	0.47
2:G:4960:ILE:HG13	2:G:4983:HIS:HB3	1.97	0.47
2:J:13:PHE:HA	2:J:164:ARG:HA	1.97	0.47
2:J:1261:ASP:HA	2:J:1268:PRO:HA	1.97	0.47
2:J:2512:ILE:HG21	2:J:2518:LEU:HB2	1.96	0.47
2:J:2527:LEU:HD22	2:J:2582:MET:HE2	1.97	0.47
2:J:4640:GLU:HB3	2:J:4641:PRO:HD3	1.97	0.47
2:B:102:LEU:HD13	2:B:160:GLY:HA2	1.97	0.47
2:B:181:HIS:HA	2:B:198:THR:HB	1.97	0.47
2:B:535:ALA:O	2:B:539:LEU:HG	2.14	0.47
2:B:669:ASP:O	2:B:740:PRO:HB3	2.15	0.47
2:B:901:LYS:HD3	2:B:903:LEU:HD11	1.97	0.47
2:B:1619:ARG:NH2	2:B:1621:GLY:O	2.48	0.47
2:B:1951:LEU:HD11	2:B:2134:LEU:HA	1.97	0.47
2:B:3699:HIS:CD2	2:B:3773:ARG:HG2	2.50	0.47
2:E:246:TYR:HD1	2:E:375:LYS:HA	1.80	0.47
2:E:369:LEU:HB2	2:E:371:VAL:HG23	1.97	0.47
2:E:758:ARG:HH11	2:E:761:GLY:HA2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2211:MET:HA	2:E:2214:VAL:HG12	1.97	0.47
2:E:3102:ASP:HA	2:E:3105:LYS:HE2	1.97	0.47
2:E:3172:ILE:HG23	2:E:3194:LEU:HD12	1.97	0.47
2:E:4182:GLU:HG2	2:E:5028:PHE:HE2	1.80	0.47
2:E:4184:MET:HA	2:E:4190:ILE:HD13	1.97	0.47
2:G:1808:ARG:HD3	2:G:1854:PHE:HA	1.96	0.47
2:G:2968:ASP:HA	2:G:2971:GLN:HG2	1.96	0.47
2:G:3155:ASP:O	2:G:3158:LEU:HD22	2.15	0.47
2:G:3731:LYS:O	2:G:3735:LEU:HG	2.14	0.47
2:G:4582:VAL:HG11	2:J:4860:ARG:NH1	2.30	0.47
2:J:19:GLU:HB3	2:J:205:ILE:HB	1.94	0.47
2:J:790:ARG:HD3	2:J:1627:ALA:HB2	1.97	0.47
2:J:1289:LEU:HB2	2:J:1552:VAL:HG23	1.97	0.47
2:J:4234:PHE:CE1	2:J:4985:LEU:HD23	2.50	0.47
3:F:6:GLU:OE1	3:F:22:CYS:HB2	2.15	0.47
2:B:178:ARG:HH11	2:B:194:SER:HA	1.80	0.47
2:B:2888:ARG:O	2:B:2892:GLN:HG2	2.15	0.47
2:B:3790:THR:OG1	2:B:3838:THR:OG1	2.21	0.47
2:B:4211:LYS:O	2:B:4214:LYS:HG3	2.14	0.47
2:E:664:PHE:CZ	2:E:779:PRO:HB3	2.50	0.47
2:E:1641:ILE:HB	2:E:1644:GLU:HB2	1.96	0.47
2:E:2321:ILE:HD11	2:E:2418:LEU:HB2	1.97	0.47
2:E:4640:GLU:HB3	2:E:4641:PRO:HD3	1.97	0.47
2:E:4673:ARG:NH2	2:E:4702:ASP:OD1	2.47	0.47
2:E:4860:ARG:NH1	2:J:4582:VAL:HG11	2.30	0.47
2:G:1237:TRP:CH2	2:G:1652:GLU:HG3	2.50	0.47
2:G:1287:LEU:HG	2:G:1289:LEU:HG	1.97	0.47
2:G:2676:ARG:HH12	2:G:2955:PHE:HB2	1.80	0.47
2:G:2888:ARG:O	2:G:2892:GLN:HG2	2.15	0.47
2:G:3102:ASP:HA	2:G:3105:LYS:HE2	1.97	0.47
2:G:3514:LEU:HA	2:G:3518:LEU:HB2	1.97	0.47
2:G:3699:HIS:CD2	2:G:3773:ARG:HG2	2.50	0.47
2:J:215:THR:HG22	2:J:273:HIS:HA	1.97	0.47
2:J:664:PHE:CZ	2:J:779:PRO:HB3	2.50	0.47
2:J:1808:ARG:HD3	2:J:1854:PHE:HA	1.96	0.47
2:J:3246:LEU:HA	2:J:3249:LEU:HD12	1.97	0.47
2:J:3516:LYS:HG3	2:J:3517:MET:N	2.28	0.47
2:J:3989:VAL:HA	2:J:3992:PHE:HD2	1.80	0.47
1:I:68:LEU:C	1:I:70:GLN:H	2.18	0.46
2:B:823:LEU:HB2	2:B:1617:THR:HB	1.96	0.46
2:B:1758:ARG:NH2	2:B:2040:ALA:HB2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1849:LEU:HG	2:B:1945:TYR:CZ	2.51	0.46
2:B:2313:LEU:HG	2:B:2318:TYR:HB2	1.96	0.46
2:B:2489:LYS:HB3	2:B:2492:ALA:HB3	1.96	0.46
2:B:2821:TRP:HD1	2:B:2939:ARG:HA	1.80	0.46
2:B:3172:ILE:HG13	2:B:3175:LEU:HD12	1.97	0.46
2:E:3155:ASP:O	2:E:3158:LEU:HD22	2.15	0.46
2:E:3752:SER:O	2:E:3756:LYS:HG3	2.14	0.46
2:G:13:PHE:HA	2:G:164:ARG:HA	1.97	0.46
2:G:1289:LEU:HB2	2:G:1552:VAL:HG23	1.97	0.46
2:G:2291:GLN:OE1	2:G:2291:GLN:N	2.40	0.46
2:J:116:MET:HB2	2:J:139:GLU:HA	1.97	0.46
2:J:1078:GLU:HB3	2:J:1081:TYR:CD2	2.50	0.46
2:J:2479:LEU:HA	2:J:2485:LEU:HA	1.97	0.46
2:J:3312:LEU:HB2	2:J:3345:ILE:HD11	1.96	0.46
2:J:4182:GLU:HG2	2:J:5028:PHE:HE2	1.80	0.46
2:B:144:GLU:HG3	2:B:175:SER:HB2	1.97	0.46
2:B:299:LEU:HD11	2:B:376:ALA:HB3	1.97	0.46
2:B:642:THR:O	2:B:782:SER:HA	2.15	0.46
2:B:1000:ARG:HH12	3:C:114:TYR:HA	1.80	0.46
2:B:1287:LEU:HG	2:B:1289:LEU:HG	1.98	0.46
2:B:2109:ASP:HA	2:B:3694:LYS:HD2	1.96	0.46
2:B:2512:ILE:HG21	2:B:2518:LEU:HB2	1.96	0.46
2:B:2668:SER:O	2:B:2672:LEU:HD12	2.15	0.46
2:B:3102:ASP:HA	2:B:3105:LYS:HE2	1.97	0.46
2:E:535:ALA:O	2:E:539:LEU:HG	2.14	0.46
2:E:940:GLY:N	2:E:1051:TYR:HA	2.28	0.46
2:E:2869:ARG:NH2	2:E:2870[B]:GLU:HG3	2.29	0.46
2:E:3992:PHE:HA	2:E:3995:VAL:HG22	1.96	0.46
2:G:1849:LEU:HG	2:G:1945:TYR:CZ	2.51	0.46
2:G:2377:LEU:HD22	2:G:2468:GLY:HA3	1.96	0.46
2:G:4234:PHE:CE1	2:G:4985:LEU:HD23	2.50	0.46
2:J:181:HIS:HA	2:J:198:THR:HB	1.97	0.46
2:J:501:ALA:O	2:J:505:GLU:HG2	2.15	0.46
2:J:758:ARG:HH11	2:J:761:GLY:HA2	1.80	0.46
2:J:1158:ASN:HB3	2:J:1182:ILE:N	2.28	0.46
2:J:2740:VAL:HG21	2:J:2819:TRP:HE1	1.80	0.46
2:J:3155:ASP:O	2:J:3158:LEU:HD22	2.15	0.46
2:J:3289:PRO:HG3	2:J:3303:PRO:HG2	1.97	0.46
2:B:110:ARG:HD2	2:B:115:ARG:HH21	1.79	0.46
2:B:341:TYR:CE2	2:B:392:ARG:HB2	2.50	0.46
2:B:2479:LEU:HA	2:B:2485:LEU:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3289:PRO:HG3	2:B:3303:PRO:HG2	1.97	0.46
2:B:4649:LEU:O	2:B:4653:VAL:HG23	2.16	0.46
2:E:116:MET:HB2	2:E:139:GLU:HA	1.97	0.46
2:E:2109:ASP:HA	2:E:3694:LYS:HD2	1.96	0.46
2:E:2777:TYR:HB2	2:E:2791:LEU:O	2.16	0.46
2:E:3246:LEU:HA	2:E:3249:LEU:HD12	1.97	0.46
2:E:3312:LEU:HB2	2:E:3345:ILE:HD11	1.96	0.46
2:E:4192:ARG:HB2	2:E:5028:PHE:CZ	2.50	0.46
2:E:4222:VAL:HG11	2:E:4950:VAL:HA	1.97	0.46
2:E:4546:VAL:HA	2:E:4549:VAL:HG22	1.97	0.46
2:E:4680:LYS:O	2:E:4685:GLY:N	2.43	0.46
2:G:790:ARG:HD3	2:G:1627:ALA:HB2	1.97	0.46
2:G:3989:VAL:HA	2:G:3992:PHE:HD2	1.80	0.46
2:G:4551:PHE:HZ	2:G:4656:LEU:HD22	1.81	0.46
2:J:178:ARG:HH11	2:J:194:SER:HA	1.80	0.46
2:J:3512:ALA:HA	2:J:3516:LYS:HE3	1.97	0.46
1:I:31:GLN:NE2	2:J:1299:GLN:HB3	2.31	0.46
2:B:595:ARG:HB3	2:B:1662:PHE:CE1	2.50	0.46
2:B:939:VAL:HA	2:B:1051:TYR:HB3	1.97	0.46
2:B:1289:LEU:HB2	2:B:1552:VAL:HG23	1.96	0.46
2:B:2538:THR:O	2:B:2542:SER:N	2.47	0.46
2:B:2679:PHE:HB2	2:B:2706:ILE:HG21	1.96	0.46
2:B:4546:VAL:HA	2:B:4549:VAL:HG22	1.97	0.46
2:E:102:LEU:HD13	2:E:160:GLY:HA2	1.97	0.46
2:E:215:THR:HG22	2:E:273:HIS:HA	1.97	0.46
2:E:217:GLY:N	2:E:262:LEU:O	2.47	0.46
2:E:1758:ARG:NH2	2:E:2040:ALA:HB2	2.30	0.46
2:E:1830:VAL:HB	2:E:1837:GLN:HG3	1.98	0.46
2:E:3639:THR:N	2:E:3640:PRO:HD2	2.31	0.46
2:G:3172:ILE:HG23	2:G:3194:LEU:HD12	1.97	0.46
2:G:3639:THR:N	2:G:3640:PRO:HD2	2.31	0.46
2:G:4649:LEU:O	2:G:4653:VAL:HG23	2.15	0.46
2:J:1830:VAL:HB	2:J:1837:GLN:HG3	1.98	0.46
2:J:3725:TYR:HA	2:J:3728:ILE:HG12	1.96	0.46
2:J:4958:CYS:SG	2:J:4959:PHE:N	2.87	0.46
2:B:661:LYS:HA	2:B:749:ASP:HA	1.97	0.46
2:B:790:ARG:HD3	2:B:1627:ALA:HB2	1.97	0.46
2:B:1092:PHE:CZ	2:B:1200:GLY:HA3	2.51	0.46
2:B:1122:TYR:CE1	2:B:1133:HIS:CD2	3.04	0.46
2:B:1237:TRP:CH2	2:B:1652:GLU:HG3	2.50	0.46
2:B:2181:SER:O	2:B:2185:ILE:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2777:TYR:HB2	2:B:2791:LEU:O	2.16	0.46
2:B:3178:THR:O	2:B:3187:ARG:NH2	2.48	0.46
2:E:901:LYS:HD3	2:E:903:LEU:HD11	1.96	0.46
2:E:2527:LEU:HD22	2:E:2582:MET:HE2	1.98	0.46
2:E:3699:HIS:CD2	2:E:3773:ARG:HG2	2.50	0.46
2:G:501:ALA:O	2:G:505:GLU:HG2	2.15	0.46
2:G:835:ARG:HB3	2:G:838:HIS:HE1	1.81	0.46
2:G:3852:LYS:O	2:G:3856:LEU:HG	2.15	0.46
2:G:3998:HIS:O	2:G:4001:MET:HG2	2.16	0.46
2:J:1116:GLY:HA3	2:J:1132:TRP:HB3	1.98	0.46
2:J:2211:MET:HA	2:J:2214:VAL:HG12	1.98	0.46
2:J:2777:TYR:HB2	2:J:2791:LEU:O	2.16	0.46
2:J:2788:HIS:HB3	2:J:2791:LEU:HD13	1.98	0.46
2:J:3962:PHE:O	2:J:3966:THR:HG23	2.15	0.46
2:J:4192:ARG:HB2	2:J:5028:PHE:CZ	2.50	0.46
2:J:4551:PHE:HZ	2:J:4656:LEU:HD22	1.81	0.46
2:J:4649:LEU:O	2:J:4653:VAL:HG23	2.16	0.46
3:M:6:GLU:OE1	3:M:22:CYS:HB2	2.15	0.46
2:B:292:ALA:HB2	2:B:312:THR:HG22	1.98	0.46
2:B:2788:HIS:HB3	2:B:2791:LEU:HD13	1.98	0.46
2:B:2879:ALA:HA	2:B:2882:TYR:CD2	2.50	0.46
2:B:3262:ARG:HG2	2:B:3329:ILE:HD11	1.97	0.46
2:B:3852:LYS:O	2:B:3856:LEU:HG	2.15	0.46
2:E:308:HIS:O	2:E:312:THR:OG1	2.25	0.46
2:E:642:THR:O	2:E:782:SER:HA	2.15	0.46
2:E:1619:ARG:NH2	2:E:1621:GLY:O	2.48	0.46
2:E:1849:LEU:HG	2:E:1945:TYR:CZ	2.51	0.46
2:E:2759:ALA:HB2	2:E:2810:LYS:HZ1	1.80	0.46
2:E:2788:HIS:HB3	2:E:2791:LEU:HD13	1.98	0.46
2:G:181:HIS:HA	2:G:198:THR:HB	1.97	0.46
2:G:583:ILE:HD13	2:G:621:ILE:HG13	1.98	0.46
2:G:669:ASP:O	2:G:740:PRO:HB3	2.15	0.46
2:G:1078:GLU:HB3	2:G:1081:TYR:CD2	2.50	0.46
2:G:1158:ASN:HB3	2:G:1182:ILE:N	2.28	0.46
2:G:1261:ASP:HA	2:G:1268:PRO:HA	1.97	0.46
2:G:1758:ARG:HH12	2:G:2036:GLN:HG3	1.81	0.46
2:J:1081:TYR:CZ	2:J:1234:VAL:HG13	2.49	0.46
2:J:1237:TRP:CH2	2:J:1652:GLU:HG3	2.50	0.46
2:J:1287:LEU:HG	2:J:1289:LEU:HG	1.98	0.46
2:J:1758:ARG:HH12	2:J:2036:GLN:HG3	1.81	0.46
2:J:2538:THR:O	2:J:2542:SER:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:4184:MET:HA	2:J:4190:ILE:HD13	1.97	0.46
2:B:1478:ASP:OD1	2:B:1482:ASN:N	2.48	0.46
2:B:1622:GLU:OE2	2:B:1623:ARG:NH1	2.47	0.46
2:B:1830:VAL:HB	2:B:1837:GLN:HG3	1.98	0.46
2:B:2538:THR:HG23	2:B:2541:PHE:H	1.81	0.46
2:B:3021:PRO:HG3	2:B:3036:LYS:HZ1	1.80	0.46
2:B:3041:SER:HB3	2:B:3088:VAL:HG22	1.98	0.46
2:B:3989:VAL:HA	2:B:3992:PHE:HD2	1.80	0.46
2:B:4182:GLU:HG2	2:B:5028:PHE:HE2	1.80	0.46
2:B:4897:ILE:O	2:B:4901:ILE:HG13	2.15	0.46
2:E:178:ARG:HH11	2:E:194:SER:HA	1.81	0.46
2:E:636:ASN:HB3	2:E:702:TRP:CZ2	2.50	0.46
2:E:1758:ARG:HH12	2:E:2036:GLN:HG3	1.81	0.46
2:E:1951:LEU:HD11	2:E:2134:LEU:HA	1.97	0.46
2:E:2676:ARG:HH12	2:E:2955:PHE:HB2	1.80	0.46
2:E:3178:THR:O	2:E:3187:ARG:NH2	2.48	0.46
2:G:595:ARG:HB3	2:G:1662:PHE:CE1	2.50	0.46
2:G:1619:ARG:NH2	2:G:1621:GLY:O	2.48	0.46
2:G:2181:SER:O	2:G:2185:ILE:HG12	2.16	0.46
2:G:2788:HIS:HB3	2:G:2791:LEU:HD13	1.98	0.46
2:G:3375:GLU:HA	2:G:3378:GLN:OE1	2.16	0.46
2:G:3725:TYR:HA	2:G:3728:ILE:HG12	1.96	0.46
2:G:4061:PHE:CE2	2:G:4065:PHE:HE2	2.33	0.46
2:G:4897:ILE:O	2:G:4901:ILE:HG13	2.15	0.46
2:J:248:GLU:HA	2:J:372:LEU:C	2.36	0.46
2:J:292:ALA:HB2	2:J:312:THR:HG22	1.98	0.46
2:J:1008:SER:HB2	2:J:1017:ARG:NE	2.22	0.46
2:J:1092:PHE:CZ	2:J:1200:GLY:HA3	2.51	0.46
2:J:1619:ARG:NH2	2:J:1621:GLY:O	2.48	0.46
2:J:1951:LEU:HD11	2:J:2134:LEU:HA	1.97	0.46
2:J:2377:LEU:HD22	2:J:2468:GLY:HA3	1.96	0.46
2:J:2676:ARG:NH1	2:J:2955:PHE:HB2	2.31	0.46
2:J:2821:TRP:HD1	2:J:2939:ARG:HA	1.79	0.46
2:J:2879:ALA:HA	2:J:2882:TYR:CD2	2.50	0.46
2:J:3041:SER:HB3	2:J:3088:VAL:HG22	1.98	0.46
2:B:246:TYR:HD1	2:B:375:LYS:HA	1.80	0.46
2:B:3413:ILE:HA	2:B:3516:LYS:HZ1	1.80	0.46
2:B:3514:LEU:HA	2:B:3518:LEU:HB2	1.97	0.46
2:E:181:HIS:HA	2:E:198:THR:HB	1.97	0.46
2:E:347:PHE:CE1	2:E:387:ALA:HB2	2.51	0.46
2:E:2559:LEU:O	2:E:2563:THR:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2676:ARG:NH1	2:E:2955:PHE:HB2	2.31	0.46
2:E:2888:ARG:O	2:E:2892:GLN:HG2	2.15	0.46
2:E:2959:PHE:O	2:E:2963:LEU:HG	2.15	0.46
2:E:3175:LEU:HD13	2:E:3190:LEU:HD13	1.98	0.46
2:E:3937:TYR:HA	2:E:3940:LYS:HD3	1.98	0.46
2:E:3989:VAL:O	2:E:3993:LEU:HG	2.16	0.46
2:E:4061:PHE:CE2	2:E:4065:PHE:HE2	2.33	0.46
2:E:4234:PHE:CE1	2:E:4985:LEU:HD23	2.50	0.46
2:E:4551:PHE:HZ	2:E:4656:LEU:HD22	1.81	0.46
2:G:1122:TYR:CE1	2:G:1133:HIS:CD2	3.04	0.46
2:G:1830:VAL:HB	2:G:1837:GLN:HG3	1.98	0.46
2:G:2538:THR:HG23	2:G:2541:PHE:H	1.81	0.46
2:G:2879:ALA:HA	2:G:2882:TYR:CD2	2.50	0.46
2:G:3512:ALA:HA	2:G:3516:LYS:HE3	1.97	0.46
2:J:969:PRO:HG2	2:J:971:ASP:HB2	1.98	0.46
2:J:2559:LEU:O	2:J:2563:THR:HG23	2.16	0.46
2:J:3102:ASP:HA	2:J:3105:LYS:HE2	1.97	0.46
2:J:3219:TYR:O	2:J:3227:ARG:NH2	2.49	0.46
2:J:3808:GLY:HA3	2:J:3893:GLU:HB3	1.97	0.46
2:J:3833:GLN:O	2:J:3837:GLN:HG2	2.16	0.46
3:M:34:MET:HE1	3:M:95:CYS:SG	2.56	0.46
2:B:13:PHE:HA	2:B:164:ARG:HA	1.97	0.46
2:B:501:ALA:O	2:B:505:GLU:HG2	2.15	0.46
2:B:1261:ASP:HA	2:B:1268:PRO:HA	1.97	0.46
2:B:3639:THR:N	2:B:3640:PRO:HD2	2.31	0.46
2:B:3937:TYR:HA	2:B:3940:LYS:HD3	1.98	0.46
2:B:3989:VAL:O	2:B:3993:LEU:HG	2.16	0.46
2:B:4234:PHE:CE1	2:B:4985:LEU:HD23	2.50	0.46
2:E:1116:GLY:HA3	2:E:1132:TRP:HB3	1.98	0.46
2:E:1156:THR:OG1	2:E:1157:GLU:OE1	2.34	0.46
2:E:3034:LYS:HA	2:E:3037:GLU:HG3	1.98	0.46
2:E:3041:SER:HB3	2:E:3088:VAL:HG22	1.98	0.46
2:E:3262:ARG:HG2	2:E:3329:ILE:HD11	1.97	0.46
2:E:3833:GLN:O	2:E:3837:GLN:HG2	2.16	0.46
2:E:3989:VAL:HA	2:E:3992:PHE:HD2	1.80	0.46
2:G:116:MET:HB2	2:G:139:GLU:HA	1.97	0.46
2:G:178:ARG:HH11	2:G:194:SER:HA	1.80	0.46
2:G:642:THR:O	2:G:782:SER:HA	2.15	0.46
2:G:2431:ASP:HB2	2:G:2501:SER:HB2	1.98	0.46
2:G:2809:ILE:H	2:G:2809:ILE:HD12	1.81	0.46
2:G:3034:LYS:HA	2:G:3037:GLU:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3041:SER:HB3	2:G:3088:VAL:HG22	1.98	0.46
2:G:3219:TYR:O	2:G:3227:ARG:NH2	2.49	0.46
2:G:4958:CYS:SG	2:G:4959:PHE:N	2.87	0.46
2:J:722:TRP:CZ2	2:J:727:ALA:HB2	2.51	0.46
2:J:1433:TYR:CZ	2:J:1578:ALA:HB2	2.51	0.46
2:J:3262:ARG:HG2	2:J:3329:ILE:HD11	1.97	0.46
2:J:3852:LYS:O	2:J:3856:LEU:HG	2.15	0.46
2:J:4222:VAL:HG11	2:J:4950:VAL:HA	1.96	0.46
3:M:98:ASP:N	3:M:98:ASP:OD1	2.49	0.46
1:H:68:LEU:C	1:H:70:GLN:H	2.18	0.46
2:B:116:MET:HB2	2:B:139:GLU:HA	1.97	0.46
2:B:347:PHE:CE1	2:B:387:ALA:HB2	2.51	0.46
2:B:2809:ILE:H	2:B:2809:ILE:HD12	1.81	0.46
2:B:3175:LEU:HD13	2:B:3190:LEU:HD13	1.98	0.46
2:B:5003:HIS:HA	2:B:5007:GLU:OE2	2.16	0.46
2:E:13:PHE:HA	2:E:164:ARG:HA	1.97	0.46
2:E:360:ALA:O	2:E:361:ALA:C	2.54	0.46
2:E:1237:TRP:CH2	2:E:1652:GLU:HG3	2.50	0.46
2:E:1297:PHE:CD2	2:E:1522:LEU:HA	2.51	0.46
2:E:1435:TYR:CE1	2:E:1518:CYS:HB2	2.52	0.46
2:E:2740:VAL:HG21	2:E:2819:TRP:HE1	1.80	0.46
2:E:4720:VAL:O	2:E:4724:VAL:HG23	2.16	0.46
2:E:4897:ILE:O	2:E:4901:ILE:HG13	2.15	0.46
2:G:551:LEU:HB3	2:G:589:LEU:HD21	1.98	0.46
2:G:661:LYS:HA	2:G:749:ASP:HA	1.97	0.46
2:G:1433:TYR:CZ	2:G:1578:ALA:HB2	2.51	0.46
2:G:1500:PHE:HE1	2:G:1536:SER:HG	1.64	0.46
2:G:3102:ASP:O	2:G:3106:MET:HG2	2.16	0.46
2:G:3226:GLU:HA	2:G:3229:ILE:HG22	1.99	0.46
2:G:4182:GLU:HG2	2:G:5028:PHE:HE2	1.80	0.46
2:G:4738:ALA:HA	2:G:4743:MET:SD	2.56	0.46
2:J:144:GLU:HG3	2:J:175:SER:HB2	1.97	0.46
2:J:347:PHE:CE1	2:J:387:ALA:HB2	2.51	0.46
2:J:363:ASP:HB3	2:J:366:ALA:HB3	1.98	0.46
2:J:460:GLN:HB2	2:J:463:GLU:HG2	1.96	0.46
2:J:583:ILE:HD13	2:J:621:ILE:HG13	1.98	0.46
2:J:1006:SER:OG	2:J:1017:ARG:NH2	2.49	0.46
2:J:3172:ILE:HG13	2:J:3175:LEU:HD12	1.97	0.46
2:J:3713:LYS:HZ1	2:J:3716:LEU:HD12	1.81	0.46
2:J:4738:ALA:HA	2:J:4743:MET:SD	2.56	0.46
2:J:4897:ILE:O	2:J:4901:ILE:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:215:THR:HG22	2:B:273:HIS:HA	1.97	0.45
2:B:541:SER:HA	2:B:574:VAL:HG12	1.98	0.45
2:B:551:LEU:HB3	2:B:589:LEU:HD21	1.98	0.45
2:B:583:ILE:HD13	2:B:621:ILE:HG13	1.98	0.45
2:B:1116:GLY:HA3	2:B:1132:TRP:HB3	1.98	0.45
2:B:2121:PHE:CE1	2:B:3701:LEU:HD22	2.51	0.45
2:B:2211:MET:HA	2:B:2214:VAL:HG12	1.97	0.45
2:B:2559:LEU:O	2:B:2563:THR:HG23	2.16	0.45
2:B:3219:TYR:O	2:B:3227:ARG:NH2	2.49	0.45
2:B:3545:THR:HG23	2:B:3548:GLU:H	1.81	0.45
2:B:3808:GLY:HA3	2:B:3893:GLU:HB3	1.97	0.45
2:B:4061:PHE:CE2	2:B:4065:PHE:HE2	2.33	0.45
2:B:4551:PHE:HZ	2:B:4656:LEU:HD22	1.81	0.45
2:B:4582:VAL:HG11	2:G:4860:ARG:NH1	2.31	0.45
2:E:583:ILE:HD13	2:E:621:ILE:HG13	1.98	0.45
2:E:1006:SER:OG	2:E:1017:ARG:NH2	2.49	0.45
2:E:1287:LEU:HG	2:E:1289:LEU:HG	1.98	0.45
2:E:2197:LEU:O	2:E:2201:LEU:HG	2.16	0.45
2:G:215:THR:HG22	2:G:273:HIS:HA	1.97	0.45
2:G:347:PHE:CE1	2:G:387:ALA:HB2	2.51	0.45
2:G:497:TYR:HB2	2:G:503:PHE:CE1	2.52	0.45
2:G:722:TRP:CZ2	2:G:727:ALA:HB2	2.51	0.45
2:G:1000:ARG:HH12	3:M:114:TYR:HA	1.81	0.45
2:G:2138:LEU:HB2	2:G:2139:PRO:HD3	1.99	0.45
2:J:246:TYR:HD1	2:J:375:LYS:HA	1.81	0.45
2:J:1156:THR:OG1	2:J:1157:GLU:OE1	2.34	0.45
2:J:2676:ARG:HH12	2:J:2955:PHE:HB2	1.80	0.45
2:J:3410:PRO:HA	2:J:3413:ILE:HD12	1.99	0.45
2:J:3639:THR:N	2:J:3640:PRO:HD2	2.31	0.45
2:J:3699:HIS:CD2	2:J:3773:ARG:HG2	2.50	0.45
2:J:4061:PHE:CE2	2:J:4065:PHE:HE2	2.33	0.45
2:B:497:TYR:HB2	2:B:503:PHE:CE1	2.52	0.45
2:E:1261:ASP:HA	2:E:1268:PRO:HA	1.97	0.45
2:E:2035:HIS:O	2:E:2039:LEU:HG	2.17	0.45
2:E:3226:GLU:HA	2:E:3229:ILE:HG22	1.98	0.45
2:E:3802:ILE:HD11	2:E:3887:PHE:HB2	1.98	0.45
2:E:4960:ILE:HG13	2:E:4983:HIS:HB3	1.97	0.45
2:G:1297:PHE:CD2	2:G:1522:LEU:HA	2.51	0.45
2:G:2035:HIS:O	2:G:2039:LEU:HG	2.17	0.45
2:G:2680:TRP:HZ3	2:G:2962:GLN:HG3	1.82	0.45
2:G:3289:PRO:HG3	2:G:3303:PRO:HG2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3713:LYS:HZ1	2:G:3717:ASP:H	1.64	0.45
2:G:3790:THR:OG1	2:G:3838:THR:OG1	2.21	0.45
2:G:3802:ILE:HD11	2:G:3887:PHE:HB2	1.98	0.45
2:J:835:ARG:HB3	2:J:838:HIS:HE1	1.81	0.45
2:J:1758:ARG:NH2	2:J:2040:ALA:HB2	2.30	0.45
2:J:1804:LEU:HB3	2:J:1853:ILE:HG21	1.99	0.45
2:J:2121:PHE:CE1	2:J:3701:LEU:HD22	2.51	0.45
2:J:2197:LEU:O	2:J:2201:LEU:HG	2.16	0.45
2:J:2381:GLU:HB3	2:J:2385:ARG:HH21	1.81	0.45
2:J:2527:LEU:HB2	2:J:2582:MET:HE1	1.97	0.45
2:J:4960:ILE:HG13	2:J:4983:HIS:HB3	1.97	0.45
3:C:98:ASP:N	3:C:98:ASP:OD1	2.49	0.45
3:F:71:ARG:CG	3:F:78:VAL:HG22	2.46	0.45
3:F:98:ASP:OD1	3:F:98:ASP:N	2.49	0.45
2:B:20:VAL:HA	2:B:204:PRO:HA	1.98	0.45
2:B:369:LEU:HB2	2:B:371:VAL:HG23	1.99	0.45
2:B:636:ASN:HB3	2:B:702:TRP:CZ2	2.50	0.45
2:B:993:HIS:CE1	2:B:1027:LEU:HD21	2.52	0.45
2:B:2138:LEU:HB2	2:B:2139:PRO:HD3	1.98	0.45
2:B:2182:ILE:HG22	2:B:2186:MET:HE1	1.98	0.45
2:B:2431:ASP:HB2	2:B:2501:SER:HB2	1.98	0.45
2:B:2676:ARG:NH1	2:B:2955:PHE:HB2	2.31	0.45
2:B:4738:ALA:HA	2:B:4743:MET:SD	2.56	0.45
2:E:34:LYS:H	2:E:53:SER:HB2	1.82	0.45
2:E:969:PRO:HG2	2:E:971:ASP:HB2	1.98	0.45
2:E:2479:LEU:HA	2:E:2485:LEU:HA	1.97	0.45
2:E:3852:LYS:O	2:E:3856:LEU:HG	2.15	0.45
2:E:4649:LEU:O	2:E:4653:VAL:HG23	2.16	0.45
2:G:363:ASP:HB3	2:G:366:ALA:HB3	1.97	0.45
2:G:993:HIS:CE1	2:G:1027:LEU:HD21	2.52	0.45
2:G:1116:GLY:HA3	2:G:1132:TRP:HB3	1.98	0.45
2:G:2381:GLU:HB3	2:G:2385:ARG:HH21	1.81	0.45
2:G:2479:LEU:HA	2:G:2485:LEU:HA	1.97	0.45
2:G:3410:PRO:HA	2:G:3413:ILE:HD12	1.99	0.45
2:G:3808:GLY:HA3	2:G:3893:GLU:HB3	1.97	0.45
2:G:3833:GLN:O	2:G:3837:GLN:HG2	2.16	0.45
2:J:1101:ARG:HG3	2:J:1125:ASN:HB2	1.99	0.45
2:J:3102:ASP:O	2:J:3106:MET:HG2	2.16	0.45
3:F:66:ARG:HH11	3:F:83:ASN:HB3	1.81	0.45
1:A:31:GLN:NE2	2:B:1299:GLN:HB3	2.31	0.45
2:B:280:LEU:O	2:B:313:SER:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:940:GLY:N	2:B:1051:TYR:HA	2.28	0.45
2:B:1006:SER:OG	2:B:1017:ARG:NH2	2.49	0.45
2:B:1433:TYR:CZ	2:B:1578:ALA:HB2	2.51	0.45
2:B:2101:MET:SD	2:B:2104:ARG:NH2	2.89	0.45
2:B:2197:LEU:O	2:B:2201:LEU:HG	2.16	0.45
2:B:3246:LEU:HA	2:B:3249:LEU:HD12	1.97	0.45
2:B:3375:GLU:HA	2:B:3378:GLN:OE1	2.16	0.45
2:B:3563:VAL:HG12	2:B:3569:LEU:HG	1.99	0.45
2:E:268:SER:HB3	2:E:269:TRP:CE3	2.52	0.45
2:E:299:LEU:HD11	2:E:376:ALA:HB3	1.97	0.45
2:E:1122:TYR:CE1	2:E:1133:HIS:CD2	3.04	0.45
2:E:1478:ASP:OD1	2:E:1482:ASN:N	2.48	0.45
2:E:1622:GLU:OE2	2:E:1623:ARG:NH1	2.47	0.45
2:E:2126:ARG:NH2	2:E:2133:GLU:OE2	2.48	0.45
2:E:2354:VAL:HA	2:E:2357:LEU:HG	1.99	0.45
2:E:2364:PHE:CD1	2:E:2429:LEU:HD21	2.47	0.45
2:E:3563:VAL:HG12	2:E:3569:LEU:HG	1.99	0.45
2:E:5003:HIS:HA	2:E:5007:GLU:OE2	2.16	0.45
2:G:636:ASN:HB3	2:G:702:TRP:CZ2	2.50	0.45
2:G:1104:TRP:CE2	2:G:1153:ILE:HB	2.51	0.45
2:G:3246:LEU:HA	2:G:3249:LEU:HD12	1.97	0.45
2:G:3989:VAL:O	2:G:3993:LEU:HG	2.16	0.45
2:J:20:VAL:HA	2:J:204:PRO:HA	1.98	0.45
2:J:661:LYS:HA	2:J:749:ASP:HA	1.97	0.45
2:J:1297:PHE:CD2	2:J:1522:LEU:HA	2.51	0.45
2:J:2035:HIS:O	2:J:2039:LEU:HG	2.17	0.45
2:J:2431:ASP:HB2	2:J:2501:SER:HB2	1.98	0.45
2:J:2680:TRP:HZ3	2:J:2962:GLN:HG3	1.82	0.45
2:J:2888:ARG:O	2:J:2892:GLN:HG2	2.15	0.45
2:J:3172:ILE:HG23	2:J:3194:LEU:HD12	1.97	0.45
2:J:3989:VAL:O	2:J:3993:LEU:HG	2.16	0.45
3:M:107:TRP:HE3	3:M:111:ASN:HD21	1.64	0.45
2:B:550:LYS:HA	2:B:553:ARG:HG2	1.99	0.45
2:B:1086:GLY:H	2:B:1156:THR:HG23	1.82	0.45
2:B:1758:ARG:HH12	2:B:2036:GLN:HG3	1.81	0.45
2:B:2680:TRP:HZ3	2:B:2962:GLN:HG3	1.82	0.45
2:B:3051:ARG:HH22	2:B:3102:ASP:HB2	1.82	0.45
2:B:3068:LEU:HD13	2:B:3139:VAL:HG21	1.99	0.45
2:B:3538:THR:O	2:B:3542:LEU:HG	2.17	0.45
2:B:4694:ASP:N	2:B:4694:ASP:OD1	2.50	0.45
2:E:292:ALA:HB2	2:E:312:THR:HG22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:497:TYR:HB2	2:E:503:PHE:CE1	2.52	0.45
2:E:551:LEU:HB3	2:E:589:LEU:HD21	1.98	0.45
2:E:661:LYS:HA	2:E:749:ASP:HA	1.97	0.45
2:E:790:ARG:HD3	2:E:1627:ALA:HB2	1.97	0.45
2:E:993:HIS:CE1	2:E:1027:LEU:HD21	2.52	0.45
2:E:1101:ARG:HG3	2:E:1125:ASN:HB2	1.99	0.45
2:E:1433:TYR:CZ	2:E:1578:ALA:HB2	2.51	0.45
2:E:2181:SER:O	2:E:2185:ILE:HG12	2.16	0.45
2:E:2604:GLU:HG2	2:E:2639:MET:HG2	1.99	0.45
2:E:3051:ARG:HH22	2:E:3102:ASP:HB2	1.82	0.45
2:E:3192:GLU:O	2:E:3196:ARG:HG2	2.17	0.45
2:E:3808:GLY:HA3	2:E:3893:GLU:HB3	1.97	0.45
2:G:308:HIS:O	2:G:312:THR:OG1	2.25	0.45
2:G:541:SER:HA	2:G:574:VAL:HG12	1.98	0.45
2:G:795:GLY:HA3	2:G:812:HIS:CE1	2.51	0.45
2:G:1256:GLU:OE1	2:G:1271:ARG:NH2	2.46	0.45
2:G:2448:GLY:O	2:G:2452:ARG:HG2	2.17	0.45
2:G:2676:ARG:NH1	2:G:2955:PHE:HB2	2.31	0.45
2:G:2777:TYR:HB2	2:G:2791:LEU:O	2.16	0.45
2:G:2821:TRP:HD1	2:G:2939:ARG:HA	1.80	0.45
2:G:3538:THR:O	2:G:3542:LEU:HG	2.17	0.45
2:G:3545:THR:HG23	2:G:3548:GLU:H	1.81	0.45
2:G:3766:GLN:HG2	2:G:3769:ARG:NH2	2.32	0.45
2:G:4546:VAL:HA	2:G:4549:VAL:HG22	1.97	0.45
2:J:360:ALA:O	2:J:361:ALA:C	2.53	0.45
2:J:551:LEU:HB3	2:J:589:LEU:HD21	1.98	0.45
2:J:636:ASN:HB3	2:J:702:TRP:CZ2	2.50	0.45
2:J:642:THR:O	2:J:782:SER:HA	2.15	0.45
2:J:1104:TRP:CE2	2:J:1153:ILE:HB	2.51	0.45
2:J:1122:TYR:CE1	2:J:1133:HIS:CD2	3.04	0.45
2:J:1849:LEU:HG	2:J:1945:TYR:CZ	2.51	0.45
2:J:2181:SER:O	2:J:2185:ILE:HG12	2.16	0.45
2:J:3563:VAL:HG12	2:J:3569:LEU:HG	1.99	0.45
2:J:3766:GLN:HG2	2:J:3769:ARG:NH2	2.32	0.45
2:J:3951:PHE:HB3	2:J:3955:MET:HE1	1.99	0.45
2:B:268:SER:HB3	2:B:269:TRP:CE3	2.52	0.45
2:B:877:ASN:HD22	2:B:1045:THR:HG23	1.82	0.45
2:B:1101:ARG:HG3	2:B:1125:ASN:HB2	1.99	0.45
2:B:2112:GLN:O	2:B:2114:PRO:HD3	2.17	0.45
2:B:3102:ASP:O	2:B:3106:MET:HG2	2.16	0.45
2:B:3192:GLU:O	2:B:3196:ARG:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3833:GLN:O	2:B:3837:GLN:HG2	2.16	0.45
2:B:4720:VAL:O	2:B:4724:VAL:HG23	2.16	0.45
2:E:1758:ARG:NH2	2:E:2036:GLN:HG3	2.31	0.45
2:E:2138:LEU:HB2	2:E:2139:PRO:HD3	1.99	0.45
2:E:2381:GLU:HB3	2:E:2385:ARG:HH21	1.81	0.45
2:E:2809:ILE:H	2:E:2809:ILE:HD12	1.81	0.45
2:G:144:GLU:HG3	2:G:175:SER:HB2	1.97	0.45
2:G:1092:PHE:CZ	2:G:1200:GLY:HA3	2.51	0.45
2:G:2112:GLN:O	2:G:2114:PRO:HD3	2.17	0.45
2:G:2211:MET:HA	2:G:2214:VAL:HG12	1.97	0.45
2:G:2559:LEU:O	2:G:2563:THR:HG23	2.16	0.45
2:G:5003:HIS:HA	2:G:5007:GLU:OE2	2.16	0.45
2:J:2112:GLN:O	2:J:2114:PRO:HD3	2.17	0.45
2:J:2138:LEU:HB2	2:J:2139:PRO:HD3	1.99	0.45
2:J:3034:LYS:HA	2:J:3037:GLU:HG3	1.98	0.45
2:J:4546:VAL:HA	2:J:4549:VAL:HG22	1.97	0.45
2:J:4675:LYS:O	2:J:4679:ARG:HG2	2.17	0.45
2:B:2354:VAL:HA	2:B:2357:LEU:HG	1.99	0.45
2:B:3226:GLU:HA	2:B:3229:ILE:HG22	1.99	0.45
2:B:3802:ILE:HD11	2:B:3887:PHE:HB2	1.98	0.45
2:E:1104:TRP:CE2	2:E:1153:ILE:HB	2.51	0.45
2:E:2431:ASP:HB2	2:E:2501:SER:HB2	1.98	0.45
2:E:2538:THR:HG23	2:E:2541:PHE:H	1.81	0.45
2:G:550:LYS:HA	2:G:553:ARG:HG2	1.99	0.45
2:G:1006:SER:OG	2:G:1017:ARG:NH2	2.49	0.45
2:G:1478:ASP:OD1	2:G:1482:ASN:N	2.48	0.45
2:G:4694:ASP:OD1	2:G:4694:ASP:N	2.50	0.45
2:G:4733:GLY:HA3	2:G:4736:ARG:HH11	1.82	0.45
2:J:280:LEU:O	2:J:313:SER:HA	2.17	0.45
2:J:497:TYR:HB2	2:J:503:PHE:CE1	2.52	0.45
2:J:550:LYS:HA	2:J:553:ARG:HG2	1.99	0.45
2:J:1435:TYR:CE1	2:J:1518:CYS:HB2	2.52	0.45
3:K:6:GLU:OE1	3:K:22:CYS:HB2	2.15	0.45
3:K:71:ARG:CG	3:K:78:VAL:HG22	2.46	0.45
2:B:34:LYS:H	2:B:53:SER:HB2	1.82	0.45
2:B:835:ARG:HB3	2:B:838:HIS:HE1	1.81	0.45
2:B:1758:ARG:NH2	2:B:2036:GLN:HG3	2.31	0.45
2:B:2291:GLN:OE1	2:B:2291:GLN:N	2.40	0.45
2:B:2604:GLU:HG2	2:B:2639:MET:HG2	1.99	0.45
2:B:3900:GLN:HB3	2:B:3976:ASN:HD21	1.82	0.45
2:E:483:MET:O	2:E:486:LEU:HG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:541:SER:HA	2:E:574:VAL:HG12	1.98	0.45
2:E:722:TRP:CZ2	2:E:727:ALA:HB2	2.51	0.45
2:E:1730:MET:HE2	2:E:1773:PRO:HD2	1.98	0.45
2:E:1810:LYS:O	2:E:1814:MET:HG2	2.17	0.45
2:E:3014:CYS:SG	2:E:3074:SER:HB3	2.57	0.45
2:E:3375:GLU:HA	2:E:3378:GLN:OE1	2.16	0.45
2:E:3410:PRO:HA	2:E:3413:ILE:HD12	1.99	0.45
2:G:181:HIS:ND1	2:G:198:THR:OG1	2.50	0.45
2:G:877:ASN:HD22	2:G:1045:THR:HG23	1.82	0.45
2:G:3014:CYS:SG	2:G:3074:SER:HB3	2.57	0.45
2:G:3018:LEU:HB2	2:G:3074:SER:HA	1.99	0.45
2:G:3568:SER:HA	2:G:3571:TRP:CD1	2.52	0.45
2:J:795:GLY:HA3	2:J:812:HIS:CE1	2.51	0.45
2:J:1227:ALA:HA	2:J:1827:ARG:HH22	1.82	0.45
2:J:2759:ALA:HB2	2:J:2810:LYS:HZ1	1.81	0.45
2:J:3014:CYS:SG	2:J:3074:SER:HB3	2.57	0.45
2:J:3051:ARG:HH22	2:J:3102:ASP:HB2	1.82	0.45
2:J:4720:VAL:O	2:J:4724:VAL:HG23	2.16	0.45
2:J:5003:HIS:HA	2:J:5007:GLU:OE2	2.16	0.45
3:C:66:ARG:HH11	3:C:83:ASN:HB3	1.82	0.45
1:H:7:ILE:O	2:G:719:LEU:HD11	2.17	0.45
2:B:722:TRP:CZ2	2:B:727:ALA:HB2	2.51	0.45
2:B:795:GLY:HA3	2:B:812:HIS:CE1	2.51	0.45
2:B:984:LEU:HB2	2:B:1055:PRO:HG3	1.99	0.45
2:B:1104:TRP:CE2	2:B:1153:ILE:HB	2.51	0.45
2:B:1733:GLU:HG2	2:B:2201:LEU:HA	1.99	0.45
2:B:2738:ARG:NH2	2:B:2888:ARG:HH21	2.15	0.45
2:B:3014:CYS:SG	2:B:3074:SER:HB3	2.57	0.45
2:E:20:VAL:HA	2:E:204:PRO:HA	1.98	0.45
2:E:533:ASN:HB3	2:E:536:ASN:HB2	1.99	0.45
2:E:893:TYR:HA	2:E:904:HIS:H	1.82	0.45
2:E:1086:GLY:H	2:E:1156:THR:HG23	1.82	0.45
2:E:2448:GLY:O	2:E:2452:ARG:HG2	2.17	0.45
2:E:3219:TYR:O	2:E:3227:ARG:NH2	2.49	0.45
2:E:3538:THR:O	2:E:3542:LEU:HG	2.17	0.45
2:E:3790:THR:OG1	2:E:3838:THR:OG1	2.21	0.45
2:E:4071:ILE:HD13	2:E:4103:PHE:CE2	2.50	0.45
2:G:280:LEU:O	2:G:313:SER:HA	2.17	0.45
2:G:893:TYR:HA	2:G:904:HIS:H	1.82	0.45
2:G:1431:THR:O	2:G:1431:THR:HG22	2.17	0.45
2:G:1622:GLU:OE2	2:G:1623:ARG:NH1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1804:LEU:HB3	2:G:1853:ILE:HG21	1.99	0.45
2:G:2121:PHE:CE1	2:G:3701:LEU:HD22	2.51	0.45
2:G:2261:SER:HA	2:G:2265:LEU:HD23	1.99	0.45
2:G:2956:ALA:O	2:G:2960:LEU:HG	2.17	0.45
2:G:3051:ARG:HH22	2:G:3102:ASP:HB2	1.82	0.45
2:G:3175:LEU:HD13	2:G:3190:LEU:HD13	1.98	0.45
2:G:3563:VAL:HG12	2:G:3569:LEU:HG	1.99	0.45
2:J:893:TYR:HA	2:J:904:HIS:H	1.82	0.45
2:J:1071:ARG:HB3	2:J:1196:PRO:HG3	1.99	0.45
2:J:1431:THR:O	2:J:1431:THR:HG22	2.17	0.45
2:J:1622:GLU:OE2	2:J:1623:ARG:NH1	2.47	0.45
2:J:1758:ARG:NH2	2:J:2036:GLN:HG3	2.31	0.45
2:J:2809:ILE:H	2:J:2809:ILE:HD12	1.81	0.45
2:J:3226:GLU:HA	2:J:3229:ILE:HG22	1.99	0.45
2:J:3516:LYS:HG3	2:J:3517:MET:H	1.82	0.45
2:J:3937:TYR:HA	2:J:3940:LYS:HD3	1.98	0.45
1:H:55:VAL:HG23	2:G:1783:VAL:HB	1.99	0.45
2:B:533:ASN:HB3	2:B:536:ASN:HB2	1.99	0.45
2:B:766:GLY:HA3	2:B:1476:MET:HE1	1.99	0.45
2:B:893:TYR:HA	2:B:904:HIS:H	1.82	0.45
2:B:969:PRO:HG2	2:B:971:ASP:HB2	1.98	0.45
2:B:1018:ASN:HB3	2:B:1021:LEU:HD23	1.99	0.45
2:B:1156:THR:OG1	2:B:1157:GLU:OE1	2.34	0.45
2:B:2759:ALA:HB2	2:B:2810:LYS:HZ1	1.82	0.45
2:B:3514:LEU:HD12	2:B:3606:LEU:HD22	1.99	0.45
2:E:280:LEU:O	2:E:313:SER:HA	2.17	0.45
2:E:550:LYS:HA	2:E:553:ARG:HG2	1.99	0.45
2:E:877:ASN:HD22	2:E:1045:THR:HG23	1.82	0.45
2:E:2642:LYS:HA	2:E:2645:THR:HG22	1.99	0.45
2:E:3018:LEU:HB2	2:E:3074:SER:HA	1.99	0.45
2:E:3350:ARG:HB2	2:E:3353:LEU:HD13	1.99	0.45
2:G:483:MET:O	2:G:486:LEU:HG	2.17	0.45
2:G:969:PRO:HG2	2:G:971:ASP:HB2	1.98	0.45
2:G:1101:ARG:HG3	2:G:1125:ASN:HB2	1.99	0.45
2:G:1420:ASN:HB2	2:G:1570:LYS:HD2	1.99	0.45
2:G:1435:TYR:CE1	2:G:1518:CYS:HB2	2.52	0.45
2:G:3350:ARG:HB2	2:G:3353:LEU:HD13	1.99	0.45
2:J:34:LYS:H	2:J:53:SER:HB2	1.82	0.45
2:J:1171:SER:OG	2:J:1175:SER:N	2.50	0.45
2:J:1730:MET:CE	2:J:1773:PRO:HD2	2.47	0.45
2:J:2912:THR:HG23	2:J:2914:LYS:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2957:PHE:O	2:J:2961:GLN:HG3	2.17	0.45
2:J:3375:GLU:HA	2:J:3378:GLN:OE1	2.16	0.45
3:C:51:ILE:HG23	3:C:71:ARG:HE	1.82	0.45
3:M:71:ARG:CG	3:M:78:VAL:HG22	2.46	0.45
1:A:13:ARG:HG3	1:A:14:THR:N	2.33	0.44
2:B:1065:ASN:ND2	2:B:1462:MET:HG3	2.33	0.44
2:B:1431:THR:O	2:B:1431:THR:HG22	2.17	0.44
2:B:1435:TYR:CE1	2:B:1518:CYS:HB2	2.52	0.44
2:B:2035:HIS:O	2:B:2039:LEU:HG	2.17	0.44
2:B:3034:LYS:HA	2:B:3037:GLU:HG3	1.98	0.44
2:B:4675:LYS:O	2:B:4679:ARG:HG2	2.17	0.44
2:B:4860:ARG:NH1	2:E:4582:VAL:HG11	2.31	0.44
2:E:215:THR:HB	2:E:271:GLY:O	2.17	0.44
2:E:1092:PHE:CZ	2:E:1200:GLY:HA3	2.51	0.44
2:E:1804:LEU:HB3	2:E:1853:ILE:HG21	1.99	0.44
2:E:2261:SER:HA	2:E:2265:LEU:HD23	1.99	0.44
2:E:3172:ILE:HG13	2:E:3175:LEU:HD12	1.97	0.44
2:E:4738:ALA:HA	2:E:4743:MET:SD	2.56	0.44
2:E:4746:ALA:O	2:E:4749:GLU:HG2	2.18	0.44
2:G:1730:MET:CE	2:G:1773:PRO:HD2	2.47	0.44
2:G:2751:LEU:HD23	2:G:2751:LEU:H	1.83	0.44
2:G:3172:ILE:HG13	2:G:3175:LEU:HD12	1.97	0.44
2:G:3313:ASN:HD21	2:G:3353:LEU:HD11	1.82	0.44
2:G:3514:LEU:HD12	2:G:3606:LEU:HD22	1.99	0.44
2:J:1086:GLY:H	2:J:1156:THR:HG23	1.82	0.44
2:J:2261:SER:HA	2:J:2265:LEU:HD23	1.99	0.44
2:J:2538:THR:HG23	2:J:2541:PHE:H	1.81	0.44
2:J:3068:LEU:HD13	2:J:3139:VAL:HG21	1.99	0.44
2:J:4694:ASP:N	2:J:4694:ASP:OD1	2.50	0.44
3:M:51:ILE:HG23	3:M:71:ARG:HE	1.82	0.44
3:M:66:ARG:HH11	3:M:83:ASN:HB3	1.81	0.44
1:H:13:ARG:HG3	1:H:14:THR:H	1.83	0.44
1:H:31:GLN:NE2	2:G:1299:GLN:HB3	2.32	0.44
2:B:2448:GLY:O	2:B:2452:ARG:HG2	2.17	0.44
2:B:2621:HIS:O	2:B:2624:ARG:HG2	2.17	0.44
2:B:3018:LEU:HB2	2:B:3074:SER:HA	1.99	0.44
2:B:3350:ARG:HB2	2:B:3353:LEU:HD13	1.99	0.44
2:B:3766:GLN:HG2	2:B:3769:ARG:NH2	2.32	0.44
2:B:4071:ILE:HD13	2:B:4103:PHE:CE2	2.50	0.44
2:E:1065:ASN:ND2	2:E:1462:MET:HG3	2.33	0.44
2:E:2964:LEU:O	2:E:2967:MET:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2965:ARG:HA	2:E:2968:ASP:OD2	2.17	0.44
2:E:3102:ASP:O	2:E:3106:MET:HG2	2.16	0.44
2:E:3604:TYR:O	2:E:3607:GLU:HG3	2.18	0.44
2:E:4184:MET:HG3	2:E:5021:PHE:HA	1.99	0.44
2:G:268:SER:HB3	2:G:269:TRP:CE3	2.52	0.44
2:G:1730:MET:HE2	2:G:1773:PRO:HD2	1.99	0.44
2:G:2261:SER:HB3	2:G:2273:LEU:HB2	1.99	0.44
2:G:3192:GLU:O	2:G:3196:ARG:HG2	2.17	0.44
2:G:3229:ILE:HG23	2:G:3230:LEU:HD22	2.00	0.44
2:G:3516:LYS:HG3	2:G:3517:MET:SD	2.58	0.44
2:G:3900:GLN:HB3	2:G:3976:ASN:HD21	1.82	0.44
2:G:4235:VAL:HG11	2:G:5019:TRP:CH2	2.52	0.44
2:J:560:ILE:HA	2:J:563:VAL:HG12	2.00	0.44
2:J:2965:ARG:HA	2:J:2968:ASP:OD2	2.17	0.44
2:J:3192:GLU:O	2:J:3196:ARG:HG2	2.17	0.44
2:J:3313:ASN:HD21	2:J:3353:LEU:HD11	1.82	0.44
2:J:3538:THR:O	2:J:3542:LEU:HG	2.16	0.44
2:J:4063:ASP:O	2:J:4067:LYS:HG3	2.17	0.44
1:A:66:MET:SD	1:A:103:LEU:HB2	2.58	0.44
1:H:13:ARG:HG3	1:H:14:THR:N	2.33	0.44
2:B:183:SER:N	2:B:190:GLN:O	2.45	0.44
2:B:1730:MET:HE2	2:B:1773:PRO:HD2	1.98	0.44
2:B:2352:VAL:O	2:B:2356:LEU:HG	2.18	0.44
2:B:2367:ALA:HB3	2:B:2426:TYR:CE1	2.53	0.44
2:B:2956:ALA:O	2:B:2960:LEU:HG	2.17	0.44
2:B:2957:PHE:O	2:B:2961:GLN:HG3	2.17	0.44
2:B:2981:VAL:HA	2:B:2985:ARG:HD2	2.00	0.44
2:B:3223:SER:HB3	2:B:3225:ARG:NH1	2.33	0.44
2:B:4184:MET:HG3	2:B:5021:PHE:HA	1.99	0.44
2:E:984:LEU:HB2	2:E:1055:PRO:HG3	1.99	0.44
2:E:3313:ASN:HD21	2:E:3353:LEU:HD11	1.82	0.44
2:E:3545:THR:HG23	2:E:3548:GLU:H	1.81	0.44
2:G:2122:SER:O	2:G:2126:ARG:HG3	2.18	0.44
2:G:3068:LEU:HD13	2:G:3139:VAL:HG21	1.99	0.44
2:G:3648:ARG:O	2:G:3652:MET:HG2	2.18	0.44
2:G:3937:TYR:HA	2:G:3940:LYS:HD3	1.98	0.44
2:G:4675:LYS:O	2:G:4679:ARG:HG2	2.17	0.44
2:J:215:THR:HB	2:J:271:GLY:O	2.17	0.44
2:J:1661:ARG:O	2:J:1665:HIS:HD2	2.01	0.44
2:J:2981:VAL:HA	2:J:2985:ARG:HD2	2.00	0.44
2:J:3175:LEU:HD13	2:J:3190:LEU:HD13	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3350:ARG:HB2	2:J:3353:LEU:HD13	1.99	0.44
2:J:3516:LYS:HG3	2:J:3517:MET:SD	2.58	0.44
2:J:4848:VAL:O	2:J:4852:THR:HG23	2.18	0.44
3:K:66:ARG:HH11	3:K:83:ASN:HB3	1.81	0.44
2:B:483:MET:O	2:B:486:LEU:HG	2.17	0.44
2:B:1644:GLU:HB3	2:B:1646:ARG:HG2	1.99	0.44
2:B:1683:HIS:NE2	2:B:1798:LEU:O	2.43	0.44
2:B:2261:SER:HA	2:B:2265:LEU:HD23	1.99	0.44
2:B:2299:VAL:HG11	2:B:2356:LEU:HB3	1.99	0.44
2:B:2965:ARG:HA	2:B:2968:ASP:OD2	2.17	0.44
2:B:3070:ILE:HD13	2:B:3073:ARG:NH1	2.33	0.44
2:B:3410:PRO:HA	2:B:3413:ILE:HD12	1.99	0.44
2:B:3579:LEU:HD12	2:B:3580:PRO:HD2	2.00	0.44
2:B:4688:ILE:HG22	2:B:4689:THR:HG23	2.00	0.44
2:B:4733:GLY:HA3	2:B:4736:ARG:HH11	1.82	0.44
2:E:2121:PHE:CE1	2:E:3701:LEU:HD22	2.51	0.44
2:E:2482:ASP:N	2:E:2482:ASP:OD1	2.51	0.44
2:E:3068:LEU:HD13	2:E:3139:VAL:HG21	1.99	0.44
2:E:4235:VAL:HG11	2:E:5019:TRP:CH2	2.52	0.44
2:G:547:VAL:O	2:G:551:LEU:HG	2.18	0.44
2:G:1171:SER:OG	2:G:1175:SER:N	2.50	0.44
2:G:1758:ARG:NH2	2:G:2036:GLN:HG3	2.31	0.44
2:G:1810:LYS:O	2:G:1814:MET:HG2	2.17	0.44
2:J:683:ARG:HG2	2:J:717:ASP:HB3	2.00	0.44
2:J:1776:HIS:NE2	2:J:2157:GLU:OE2	2.46	0.44
2:J:1810:LYS:O	2:J:1814:MET:HG2	2.17	0.44
2:J:2126:ARG:NH2	2:J:2133:GLU:OE2	2.48	0.44
2:J:2261:SER:HB3	2:J:2273:LEU:HB2	2.00	0.44
2:J:2325:PRO:CG	2:J:2422:ILE:HD13	2.48	0.44
2:J:2367:ALA:HB3	2:J:2426:TYR:CE1	2.53	0.44
2:J:2642:LYS:HA	2:J:2645:THR:HG22	1.99	0.44
2:J:3405:LEU:HG	2:J:3409:TYR:CE1	2.53	0.44
2:J:3802:ILE:HD11	2:J:3887:PHE:HB2	1.98	0.44
2:J:4046:ASP:O	2:J:4049:VAL:HG22	2.18	0.44
2:J:4688:ILE:HG22	2:J:4689:THR:HG23	2.00	0.44
1:I:66:MET:SD	1:I:103:LEU:HB2	2.58	0.44
2:B:683:ARG:HG2	2:B:717:ASP:HB3	2.00	0.44
2:B:1071:ARG:HB3	2:B:1196:PRO:HG3	1.99	0.44
2:B:1256:GLU:OE1	2:B:1271:ARG:NH2	2.46	0.44
2:B:1297:PHE:CD2	2:B:1522:LEU:HA	2.51	0.44
2:E:2291:GLN:CG	2:E:2293:GLN:HG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2738:ARG:NH2	2:E:2888:ARG:HH21	2.15	0.44
2:E:2956:ALA:O	2:E:2960:LEU:HG	2.17	0.44
2:E:2957:PHE:O	2:E:2961:GLN:HG3	2.17	0.44
2:E:2981:VAL:HA	2:E:2985:ARG:HD2	2.00	0.44
2:E:3579:LEU:HD12	2:E:3580:PRO:HD2	1.99	0.44
2:E:4541:TRP:CE3	2:E:4544:LEU:HD21	2.53	0.44
2:E:4675:LYS:O	2:E:4679:ARG:HG2	2.17	0.44
2:E:4733:GLY:HA3	2:E:4736:ARG:HH11	1.82	0.44
2:G:292:ALA:HB2	2:G:312:THR:HG22	1.97	0.44
2:G:1443:GLN:HE22	2:G:1556:PRO:HA	1.82	0.44
2:G:1568:LYS:HE2	2:G:1574:PRO:HD3	1.99	0.44
2:G:2621:HIS:O	2:G:2624:ARG:HG2	2.17	0.44
2:G:3512:ALA:HB1	2:G:3517:MET:HE1	2.00	0.44
2:G:3516:LYS:HG3	2:G:3517:MET:H	1.82	0.44
2:G:4063:ASP:O	2:G:4067:LYS:HG3	2.17	0.44
2:J:993:HIS:CE1	2:J:1027:LEU:HD21	2.52	0.44
2:J:1423:ASP:OD2	2:J:1426:ILE:HG12	2.18	0.44
2:J:2964:LEU:O	2:J:2967:MET:HB3	2.18	0.44
2:J:3354:LEU:HD22	2:J:3423:TRP:CZ2	2.52	0.44
2:J:3604:TYR:O	2:J:3607:GLU:HG3	2.18	0.44
2:J:3648:ARG:O	2:J:3652:MET:HG2	2.18	0.44
2:J:4541:TRP:CE3	2:J:4544:LEU:HD21	2.53	0.44
3:C:71:ARG:CG	3:C:78:VAL:HG22	2.46	0.44
2:B:1227:ALA:HA	2:B:1827:ARG:HH22	1.82	0.44
2:B:1420:ASN:HB2	2:B:1570:LYS:HD2	1.99	0.44
2:B:1449:TRP:HB2	2:B:1553:PHE:HB2	1.99	0.44
2:B:2482:ASP:N	2:B:2482:ASP:OD1	2.51	0.44
2:B:2595:LEU:CB	2:B:2600:ARG:HG3	2.48	0.44
2:B:3313:ASN:HD21	2:B:3353:LEU:HD11	1.82	0.44
2:B:4848:VAL:O	2:B:4852:THR:HG23	2.18	0.44
2:E:560:ILE:HA	2:E:563:VAL:HG12	2.00	0.44
2:E:683:ARG:HG2	2:E:717:ASP:HB3	2.00	0.44
2:E:835:ARG:HB3	2:E:838:HIS:HE1	1.81	0.44
2:E:1431:THR:O	2:E:1431:THR:HG22	2.17	0.44
2:E:3512:ALA:HB1	2:E:3517:MET:HE1	2.00	0.44
2:E:3648:ARG:O	2:E:3652:MET:HG2	2.18	0.44
2:E:3766:GLN:HG2	2:E:3769:ARG:NH2	2.32	0.44
2:E:3900:GLN:HB3	2:E:3976:ASN:HD21	1.82	0.44
2:E:3921:ASP:O	2:E:3925:ARG:HG3	2.18	0.44
2:E:4046:ASP:O	2:E:4049:VAL:HG22	2.18	0.44
2:G:20:VAL:HA	2:G:204:PRO:HA	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:533:ASN:HB3	2:G:536:ASN:HB2	1.99	0.44
2:G:683:ARG:HG2	2:G:717:ASP:HB3	2.00	0.44
2:G:1071:ARG:HB3	2:G:1196:PRO:HG3	1.99	0.44
2:G:1086:GLY:H	2:G:1156:THR:HG23	1.82	0.44
2:G:2197:LEU:O	2:G:2201:LEU:HG	2.16	0.44
2:G:2738:ARG:NH2	2:G:2888:ARG:HH21	2.15	0.44
2:G:2912:THR:HG23	2:G:2914:LYS:HG3	1.99	0.44
2:G:3533:ILE:HG22	2:G:3537:LYS:HZ3	1.83	0.44
2:J:533:ASN:HB3	2:J:536:ASN:HB2	1.99	0.44
2:J:2354:VAL:HA	2:J:2357:LEU:HG	1.99	0.44
2:J:2469:ILE:HD12	2:J:2472:LEU:HD12	1.99	0.44
2:B:2469:ILE:HD12	2:B:2472:LEU:HD12	1.99	0.44
2:B:2697:ARG:NH2	2:B:2698:MET:HB3	2.33	0.44
2:B:2965:ARG:O	2:B:2969:ILE:HG13	2.18	0.44
2:B:4541:TRP:CE3	2:B:4544:LEU:HD21	2.53	0.44
2:B:4746:ALA:O	2:B:4749:GLU:HG2	2.18	0.44
2:E:363:ASP:HB3	2:E:366:ALA:HB3	1.99	0.44
2:E:795:GLY:HA3	2:E:812:HIS:CE1	2.51	0.44
2:E:1071:ARG:HB3	2:E:1196:PRO:HG3	1.99	0.44
2:E:1423:ASP:OD2	2:E:1426:ILE:HG12	2.18	0.44
2:E:2367:ALA:HB3	2:E:2426:TYR:CE1	2.53	0.44
2:E:3169:LEU:HA	2:E:3172:ILE:HG22	2.00	0.44
2:E:3516:LYS:HG3	2:E:3517:MET:SD	2.58	0.44
2:E:4063:ASP:O	2:E:4067:LYS:HG3	2.17	0.44
2:E:4688:ILE:HG22	2:E:4689:THR:HG23	2.00	0.44
2:E:4694:ASP:N	2:E:4694:ASP:OD1	2.50	0.44
2:G:1156:THR:OG1	2:G:1157:GLU:OE1	2.34	0.44
2:G:1714:LEU:O	2:G:1718:ILE:HG12	2.18	0.44
2:G:2595:LEU:CB	2:G:2600:ARG:HG3	2.48	0.44
2:G:2697:ARG:NH2	2:G:2698:MET:HB3	2.33	0.44
2:G:2957:PHE:O	2:G:2961:GLN:HG3	2.17	0.44
2:G:3223:SER:HB3	2:G:3225:ARG:NH1	2.33	0.44
2:G:3604:TYR:O	2:G:3607:GLU:HG3	2.18	0.44
2:J:547:VAL:O	2:J:551:LEU:HG	2.18	0.44
2:J:1065:ASN:ND2	2:J:1462:MET:HG3	2.33	0.44
2:J:1161:ILE:HG13	2:J:1177:THR:HG22	2.00	0.44
2:J:1478:ASP:OD1	2:J:1482:ASN:N	2.48	0.44
2:J:1714:LEU:O	2:J:1718:ILE:HG12	2.18	0.44
2:J:1733:GLU:HG2	2:J:2201:LEU:HA	1.99	0.44
2:J:3018:LEU:HB2	2:J:3074:SER:HA	1.99	0.44
2:J:3229:ILE:HG23	2:J:3230:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:3579:LEU:HD12	2:J:3580:PRO:HD2	1.99	0.44
2:J:4202:ARG:HA	2:J:4990:PHE:HZ	1.83	0.44
2:J:4235:VAL:HG11	2:J:5019:TRP:CH2	2.52	0.44
2:B:214:VAL:HA	2:B:341:TYR:CD1	2.53	0.44
2:B:1623:ARG:HD3	2:B:1623:ARG:H	1.83	0.44
2:B:2325:PRO:CG	2:B:2422:ILE:HD13	2.48	0.44
2:B:2423:MET:HE2	2:B:2498:HIS:CD2	2.53	0.44
2:B:3405:LEU:HG	2:B:3409:TYR:CE1	2.53	0.44
2:B:3512:ALA:HB1	2:B:3517:MET:HE1	2.00	0.44
2:B:3648:ARG:O	2:B:3652:MET:HG2	2.18	0.44
2:B:4913:ARG:NH2	2:E:4888:TYR:OH	2.51	0.44
2:E:2112:GLN:O	2:E:2114:PRO:HD3	2.17	0.44
2:E:2469:ILE:HD12	2:E:2472:LEU:HD12	1.99	0.44
2:E:3042:LEU:HA	2:E:3045:LYS:HD2	2.00	0.44
2:E:3354:LEU:HD22	2:E:3423:TRP:CZ2	2.52	0.44
2:E:3568:SER:HA	2:E:3571:TRP:CD1	2.52	0.44
2:E:4027:LEU:HD12	2:E:4028:LEU:N	2.33	0.44
2:G:34:LYS:H	2:G:53:SER:HB2	1.82	0.44
2:G:977:LEU:HD11	2:G:1044:ARG:HG2	2.00	0.44
2:G:1065:ASN:ND2	2:G:1462:MET:HG3	2.33	0.44
2:G:1077:ALA:HB3	2:G:1189:LEU:HD22	2.00	0.44
2:G:1839:VAL:HG21	2:G:1934:SER:HB2	2.00	0.44
2:G:2352:VAL:O	2:G:2356:LEU:HG	2.18	0.44
2:G:2759:ALA:HA	2:G:2809:ILE:HG12	2.00	0.44
2:G:3405:LEU:HG	2:G:3409:TYR:CE1	2.53	0.44
2:G:3579:LEU:HD12	2:G:3580:PRO:HD2	1.99	0.44
2:G:4541:TRP:CE3	2:G:4544:LEU:HD21	2.53	0.44
2:J:483:MET:O	2:J:486:LEU:HG	2.17	0.44
2:J:541:SER:HA	2:J:574:VAL:HG12	1.98	0.44
2:J:877:ASN:HD22	2:J:1045:THR:HG23	1.82	0.44
2:J:977:LEU:HD11	2:J:1044:ARG:HG2	2.00	0.44
2:J:1018:ASN:HB3	2:J:1021:LEU:HD23	1.99	0.44
2:J:2595:LEU:CB	2:J:2600:ARG:HG3	2.48	0.44
2:J:2604:GLU:HG2	2:J:2639:MET:HG2	1.99	0.44
2:J:2738:ARG:HH22	2:J:2888:ARG:HH21	1.66	0.44
2:J:3514:LEU:HD12	2:J:3606:LEU:HD22	1.99	0.44
2:J:3568:SER:HA	2:J:3571:TRP:CD1	2.52	0.44
2:J:3900:GLN:HB3	2:J:3976:ASN:HD21	1.82	0.44
3:C:3:GLN:HE21	3:C:119:GLN:HE22	1.66	0.44
3:K:51:ILE:HG23	3:K:71:ARG:HE	1.82	0.44
3:M:3:GLN:HE21	3:M:119:GLN:HE22	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3:GLU:HB3	1:A:75:THR:CG2	2.48	0.44
1:H:3:GLU:HB3	1:H:75:THR:CG2	2.48	0.44
1:I:13:ARG:HG3	1:I:14:THR:H	1.83	0.44
2:B:181:HIS:ND1	2:B:198:THR:OG1	2.50	0.44
2:B:977:LEU:HD11	2:B:1044:ARG:HG2	2.00	0.44
2:B:1810:LYS:O	2:B:1814:MET:HG2	2.17	0.44
2:B:2381:GLU:HB3	2:B:2385:ARG:HH21	1.82	0.44
2:B:2642:LYS:HA	2:B:2645:THR:HG22	1.99	0.44
2:B:2759:ALA:HA	2:B:2809:ILE:HG12	2.00	0.44
2:B:3375:GLU:O	2:B:3379:LEU:HD23	2.18	0.44
2:E:82:LEU:HD11	2:E:144:GLU:HB3	2.00	0.44
2:E:214:VAL:HA	2:E:341:TYR:CD1	2.53	0.44
2:E:977:LEU:HD11	2:E:1044:ARG:HG2	2.00	0.44
2:E:1227:ALA:HA	2:E:1827:ARG:HH22	1.82	0.44
2:E:1443:GLN:HE22	2:E:1556:PRO:HA	1.82	0.44
2:E:1644:GLU:HB3	2:E:1646:ARG:HG2	1.99	0.44
2:E:1730:MET:CE	2:E:1773:PRO:HD2	2.47	0.44
2:E:2680:TRP:HZ3	2:E:2962:GLN:HG3	1.82	0.44
2:E:3070:ILE:HD13	2:E:3073:ARG:NH1	2.33	0.44
2:E:3405:LEU:HG	2:E:3409:TYR:CE1	2.53	0.44
2:E:3533:ILE:HG22	2:E:3537:LYS:HZ3	1.82	0.44
2:E:4848:VAL:O	2:E:4852:THR:HG23	2.18	0.44
2:G:1927:LEU:O	2:G:2104:ARG:NH2	2.42	0.44
2:G:2354:VAL:HA	2:G:2357:LEU:HG	1.99	0.44
2:G:2367:ALA:HB3	2:G:2426:TYR:CE1	2.53	0.44
2:G:2604:GLU:HG2	2:G:2639:MET:HG2	1.99	0.44
2:G:2965:ARG:O	2:G:2969:ILE:HG13	2.18	0.44
2:G:2981:VAL:HA	2:G:2985:ARG:HD2	2.00	0.44
2:G:3070:ILE:HD13	2:G:3073:ARG:NH1	2.33	0.44
2:G:3413:ILE:HG12	2:G:3516:LYS:HZ1	1.83	0.44
2:G:4097:MET:HE3	2:G:4108:ILE:HA	2.00	0.44
2:G:4097:MET:HE2	2:G:4108:ILE:HG23	2.00	0.44
2:G:4184:MET:HG3	2:G:5021:PHE:HA	1.99	0.44
2:G:4720:VAL:O	2:G:4724:VAL:HG23	2.16	0.44
2:G:4848:VAL:O	2:G:4852:THR:HG23	2.18	0.44
2:G:4904:PRO:HD3	2:G:4913:ARG:NH2	2.28	0.44
2:J:1077:ALA:HB3	2:J:1189:LEU:HD22	2.00	0.44
2:J:1839:VAL:HG21	2:J:1934:SER:HB2	2.00	0.44
2:J:2122:SER:O	2:J:2126:ARG:HG3	2.18	0.44
2:J:2448:GLY:O	2:J:2452:ARG:HG2	2.17	0.44
2:J:2621:HIS:O	2:J:2624:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2738:ARG:NH2	2:J:2888:ARG:HH21	2.15	0.44
2:J:3169:LEU:HA	2:J:3172:ILE:HG22	2.00	0.44
2:J:3545:THR:HG23	2:J:3548:GLU:H	1.81	0.44
3:M:105:ASN:ND2	3:M:108:GLY:O	2.51	0.44
1:D:3:GLU:HB3	1:D:75:THR:CG2	2.48	0.43
1:H:7:ILE:HB	1:H:71:ARG:O	2.18	0.43
2:B:215:THR:HB	2:B:271:GLY:O	2.17	0.43
2:B:1661:ARG:O	2:B:1665:HIS:HD2	2.01	0.43
2:B:1804:LEU:HB3	2:B:1853:ILE:HG21	1.99	0.43
2:B:3042:LEU:HA	2:B:3045:LYS:HD2	2.00	0.43
2:B:3354:LEU:HD22	2:B:3423:TRP:CZ2	2.52	0.43
2:E:1077:ALA:HB3	2:E:1189:LEU:HD22	2.00	0.43
2:E:1171:SER:OG	2:E:1175:SER:N	2.50	0.43
2:E:1244:GLN:OE1	2:E:1646:ARG:NH1	2.51	0.43
2:E:1568:LYS:HE2	2:E:1574:PRO:HD3	1.99	0.43
2:E:1661:ARG:O	2:E:1665:HIS:HD2	2.00	0.43
2:E:1758:ARG:NH1	2:E:2036:GLN:HG3	2.34	0.43
2:E:3021:PRO:HG3	2:E:3036:LYS:HZ1	1.83	0.43
2:E:3391:GLU:HA	2:E:3394:VAL:HG22	2.00	0.43
2:G:680:THR:HG23	2:G:784:SER:HB2	2.00	0.43
2:G:1161:ILE:HG13	2:G:1177:THR:HG22	2.00	0.43
2:G:1227:ALA:HA	2:G:1827:ARG:HH22	1.82	0.43
2:G:2423:MET:HE2	2:G:2498:HIS:CD2	2.53	0.43
2:G:2469:ILE:HD12	2:G:2472:LEU:HD12	1.99	0.43
2:G:2496:PRO:HB3	2:G:2550:LEU:HD23	2.00	0.43
2:G:2965:ARG:HA	2:G:2968:ASP:OD2	2.17	0.43
2:G:3354:LEU:HD22	2:G:3423:TRP:CZ2	2.53	0.43
2:J:1302:ARG:H	2:J:1302:ARG:HG2	1.68	0.43
2:J:2352:VAL:O	2:J:2356:LEU:HG	2.18	0.43
2:J:2477:PRO:HG2	2:J:2536:LEU:HD11	2.00	0.43
2:J:2482:ASP:N	2:J:2482:ASP:OD1	2.51	0.43
2:J:2956:ALA:O	2:J:2960:LEU:HG	2.17	0.43
2:J:3921:ASP:O	2:J:3925:ARG:HG3	2.18	0.43
3:K:36:TRP:NE1	3:K:93:TYR:HB3	2.33	0.43
1:D:13:ARG:HG3	1:D:14:THR:H	1.83	0.43
2:B:64:ILE:C	2:B:111:HIS:HE2	2.22	0.43
2:B:111:HIS:HE1	2:B:113:HIS:HB3	1.83	0.43
2:B:363:ASP:HB3	2:B:366:ALA:HB3	1.99	0.43
2:B:560:ILE:HA	2:B:563:VAL:HG12	2.00	0.43
2:B:1077:ALA:HB3	2:B:1189:LEU:HD22	2.00	0.43
2:B:1171:SER:OG	2:B:1175:SER:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1647:CYS:O	2:B:1648:MET:SD	2.77	0.43
2:B:2964:LEU:O	2:B:2967:MET:HB3	2.18	0.43
2:B:3229:ILE:HG23	2:B:3230:LEU:HD22	2.00	0.43
2:B:3516:LYS:HG3	2:B:3517:MET:SD	2.58	0.43
2:B:3568:SER:HA	2:B:3571:TRP:CD1	2.52	0.43
2:B:3921:ASP:O	2:B:3925:ARG:HG3	2.18	0.43
2:B:4673:ARG:NH2	2:B:4702:ASP:OD1	2.47	0.43
2:E:21:VAL:HB	2:E:205:ILE:HD11	2.00	0.43
2:E:111:HIS:HE1	2:E:113:HIS:HB3	1.83	0.43
2:E:2299:VAL:HG11	2:E:2356:LEU:HB3	1.99	0.43
2:E:2577:ILE:HG13	2:E:2578:MET:N	2.33	0.43
2:E:2621:HIS:O	2:E:2624:ARG:HG2	2.17	0.43
2:E:2738:ARG:HH22	2:E:2888:ARG:HH21	1.66	0.43
2:E:4243:PHE:O	2:E:4247:ILE:HG12	2.18	0.43
2:E:4998:LYS:HB2	2:E:4998:LYS:HE3	1.82	0.43
2:G:214:VAL:HA	2:G:341:TYR:CD1	2.53	0.43
2:G:1423:ASP:OD2	2:G:1426:ILE:HG12	2.18	0.43
2:G:2101:MET:SD	2:G:2104:ARG:NH2	2.89	0.43
2:G:2477:PRO:HG2	2:G:2536:LEU:HD11	2.00	0.43
2:G:2577:ILE:HG13	2:G:2578:MET:N	2.33	0.43
2:G:2642:LYS:HA	2:G:2645:THR:HG22	1.99	0.43
2:G:2768:PHE:HB2	2:G:2857:PRO:HD2	2.00	0.43
2:G:3145:GLN:HA	2:G:3196:ARG:NH2	2.30	0.43
2:G:4202:ARG:HA	2:G:4990:PHE:HZ	1.83	0.43
2:J:2496:PRO:HB3	2:J:2550:LEU:HD23	2.00	0.43
3:K:51:ILE:C	3:K:71:ARG:HH21	2.20	0.43
1:A:7:ILE:HB	1:A:71:ARG:O	2.19	0.43
1:D:66:MET:SD	1:D:103:LEU:HB2	2.58	0.43
2:B:1808:ARG:HG3	2:B:1854:PHE:CE1	2.53	0.43
2:B:2122:SER:O	2:B:2126:ARG:HG3	2.18	0.43
2:B:2577:ILE:HG13	2:B:2578:MET:N	2.33	0.43
2:B:2912:THR:HG23	2:B:2914:LYS:HG3	1.99	0.43
2:B:3145:GLN:HA	2:B:3196:ARG:NH2	2.30	0.43
2:B:3604:TYR:O	2:B:3607:GLU:HG3	2.18	0.43
2:B:4063:ASP:O	2:B:4067:LYS:HG3	2.17	0.43
2:B:4202:ARG:HA	2:B:4990:PHE:HZ	1.83	0.43
2:B:4235:VAL:HG11	2:B:5019:TRP:CH2	2.52	0.43
2:B:4555:LEU:HD22	2:B:4562:LEU:HD11	2.01	0.43
2:E:547:VAL:O	2:E:551:LEU:HG	2.18	0.43
2:E:590:LEU:HG	2:E:599:VAL:HG11	2.01	0.43
2:E:680:THR:HG23	2:E:784:SER:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:887:ILE:HD13	2:E:959:TYR:HB3	2.00	0.43
2:E:1623:ARG:HD3	2:E:1623:ARG:H	1.83	0.43
2:E:1733:GLU:HG2	2:E:2201:LEU:HA	1.99	0.43
2:E:1808:ARG:HG3	2:E:1854:PHE:CE1	2.53	0.43
2:E:2352:VAL:O	2:E:2356:LEU:HG	2.18	0.43
2:E:3223:SER:HB3	2:E:3225:ARG:NH1	2.33	0.43
2:E:3445:TRP:CE2	2:E:3452:LYS:HG2	2.53	0.43
2:E:3514:LEU:HD12	2:E:3606:LEU:HD22	1.99	0.43
2:E:3516:LYS:HG3	2:E:3517:MET:H	1.82	0.43
2:E:3951:PHE:HB3	2:E:3955:MET:HE1	2.00	0.43
2:E:3962:PHE:O	2:E:3966:THR:HG23	2.19	0.43
2:E:4202:ARG:HA	2:E:4990:PHE:HZ	1.83	0.43
2:G:82:LEU:HD11	2:G:144:GLU:HB3	2.00	0.43
2:G:1644:GLU:HB3	2:G:1646:ARG:HG2	1.99	0.43
2:G:2964:LEU:O	2:G:2967:MET:HB3	2.18	0.43
2:G:3042:LEU:HA	2:G:3045:LYS:HD2	2.00	0.43
2:G:4027:LEU:HD12	2:G:4028:LEU:N	2.33	0.43
2:G:4046:ASP:O	2:G:4049:VAL:HG22	2.18	0.43
2:G:4688:ILE:HG22	2:G:4689:THR:HG23	2.00	0.43
2:J:682:LEU:HD22	2:J:738:LEU:HD22	2.01	0.43
2:J:984:LEU:HB2	2:J:1055:PRO:HG3	1.99	0.43
2:J:2888:ARG:HH11	2:J:2891:LYS:HZ1	1.65	0.43
2:J:3512:ALA:HB1	2:J:3517:MET:HE1	2.00	0.43
2:J:3533:ILE:HG22	2:J:3537:LYS:HZ3	1.83	0.43
2:J:4546:VAL:HG22	2:J:4550:LYS:HE3	2.00	0.43
3:F:3:GLN:HE21	3:F:119:GLN:HE22	1.66	0.43
3:K:3:GLN:HE21	3:K:119:GLN:HE22	1.66	0.43
1:A:13:ARG:HG3	1:A:14:THR:H	1.83	0.43
1:H:66:MET:SD	1:H:103:LEU:HB2	2.58	0.43
1:I:13:ARG:HG3	1:I:14:THR:N	2.33	0.43
2:B:680:THR:HG23	2:B:784:SER:HB2	2.00	0.43
2:B:1154:ASP:O	2:B:1158:ASN:N	2.52	0.43
2:B:1244:GLN:OE1	2:B:1646:ARG:NH1	2.51	0.43
2:B:1248:VAL:HG22	2:B:1599:MET:HE3	2.01	0.43
2:B:2454:ARG:O	2:B:2458:ARG:HG3	2.19	0.43
2:B:3098:SER:O	2:B:3101:GLU:HG3	2.19	0.43
2:B:3516:LYS:HG3	2:B:3517:MET:H	1.82	0.43
2:B:3720:TYR:O	2:B:3723:MET:HG3	2.19	0.43
2:E:1420:ASN:HB2	2:E:1570:LYS:HD2	1.99	0.43
2:E:2325:PRO:CG	2:E:2422:ILE:HD13	2.48	0.43
2:E:2555:CYS:SG	2:E:2599:GLN:HG2	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2694:GLU:CD	2:E:2697:ARG:HH21	2.22	0.43
2:E:2751:LEU:H	2:E:2751:LEU:HD23	1.83	0.43
2:E:3203:VAL:HG23	2:E:3214:ASN:HD22	1.84	0.43
2:E:3895:HIS:H	2:E:3970:GLN:NE2	2.17	0.43
2:E:4049:VAL:HG12	2:E:4163:PHE:CZ	2.54	0.43
2:E:4802:GLY:HA2	2:E:4808:PHE:HB2	2.01	0.43
2:G:590:LEU:HG	2:G:599:VAL:HG11	2.01	0.43
2:G:2299:VAL:HG11	2:G:2356:LEU:HB3	1.99	0.43
2:G:2325:PRO:CG	2:G:2422:ILE:HD13	2.48	0.43
2:G:4746:ALA:O	2:G:4749:GLU:HG2	2.18	0.43
2:J:181:HIS:ND1	2:J:198:THR:OG1	2.50	0.43
2:J:268:SER:HB3	2:J:269:TRP:CE3	2.52	0.43
2:J:688:LEU:HD11	2:J:774:ASP:O	2.19	0.43
2:J:1244:GLN:OE1	2:J:1646:ARG:NH1	2.51	0.43
2:J:1443:GLN:HE22	2:J:1556:PRO:HA	1.82	0.43
2:J:1449:TRP:HB2	2:J:1553:PHE:HB2	1.99	0.43
2:J:1647:CYS:O	2:J:1648:MET:SD	2.77	0.43
2:J:2291:GLN:CG	2:J:2293:GLN:HG2	2.48	0.43
2:J:2299:VAL:HG11	2:J:2356:LEU:HB3	1.99	0.43
2:J:2555:CYS:SG	2:J:2599:GLN:HG2	2.59	0.43
2:J:2751:LEU:HD23	2:J:2751:LEU:H	1.83	0.43
2:J:3042:LEU:HA	2:J:3045:LYS:HD2	2.00	0.43
2:J:3070:ILE:HD13	2:J:3073:ARG:NH1	2.33	0.43
2:J:3203:VAL:HG23	2:J:3214:ASN:HD22	1.84	0.43
2:J:3223:SER:HB3	2:J:3225:ARG:NH1	2.33	0.43
1:I:7:ILE:HB	1:I:71:ARG:O	2.18	0.43
2:B:547:VAL:O	2:B:551:LEU:HG	2.18	0.43
2:B:590:LEU:HG	2:B:599:VAL:HG11	2.01	0.43
2:B:598:LYS:O	2:B:602:VAL:HG23	2.19	0.43
2:B:1443:GLN:HE22	2:B:1556:PRO:HA	1.82	0.43
2:B:1568:LYS:HE2	2:B:1574:PRO:HD3	1.99	0.43
2:B:1714:LEU:O	2:B:1718:ILE:HG12	2.18	0.43
2:B:1730:MET:CE	2:B:1773:PRO:HD2	2.47	0.43
2:B:2291:GLN:CG	2:B:2293:GLN:HG2	2.48	0.43
2:B:2738:ARG:HH22	2:B:2888:ARG:HH21	1.66	0.43
2:B:2768:PHE:HB2	2:B:2857:PRO:HD2	2.00	0.43
2:B:3187:ARG:NH2	2:B:3268:HIS:HB2	2.34	0.43
2:B:3895:HIS:H	2:B:3970:GLN:NE2	2.17	0.43
2:B:4049:VAL:HG12	2:B:4163:PHE:CZ	2.54	0.43
2:E:682:LEU:HD22	2:E:738:LEU:HD22	2.01	0.43
2:E:1647:CYS:O	2:E:1648:MET:SD	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1839:VAL:HG21	2:E:1934:SER:HB2	2.00	0.43
2:E:2122:SER:O	2:E:2126:ARG:HG3	2.18	0.43
2:E:2912:THR:HG23	2:E:2914:LYS:HG3	1.99	0.43
2:G:1609:PRO:HB2	2:G:1612:PHE:CZ	2.54	0.43
2:G:2291:GLN:CG	2:G:2293:GLN:HG2	2.48	0.43
2:G:2555:CYS:SG	2:G:2599:GLN:HG2	2.59	0.43
2:G:3428:ASN:HD21	2:G:3430:ASN:HB2	1.83	0.43
2:G:4243:PHE:O	2:G:4247:ILE:HG12	2.18	0.43
2:J:64:ILE:C	2:J:111:HIS:HE2	2.22	0.43
2:J:1609:PRO:HB2	2:J:1612:PHE:CZ	2.54	0.43
2:J:2680:TRP:CZ3	2:J:2962:GLN:HG3	2.54	0.43
2:J:3187:ARG:NH2	2:J:3268:HIS:HB2	2.34	0.43
2:J:4184:MET:HG3	2:J:5021:PHE:HA	1.99	0.43
2:J:4584:ASP:HA	2:J:4628:VAL:HA	2.01	0.43
2:J:4746:ALA:O	2:J:4749:GLU:HG2	2.18	0.43
2:B:1087:ARG:HG2	2:B:1154:ASP:HA	2.01	0.43
2:B:1609:PRO:HB2	2:B:1612:PHE:CZ	2.54	0.43
2:B:2680:TRP:CZ3	2:B:2962:GLN:HG3	2.54	0.43
2:E:22:LEU:HB3	2:E:200:TRP:CE3	2.54	0.43
2:E:64:ILE:C	2:E:111:HIS:HE2	2.22	0.43
2:E:157:ARG:HH21	2:E:161:GLU:HB3	1.83	0.43
2:E:284:HIS:CE1	2:E:286:THR:HB	2.54	0.43
2:E:598:LYS:O	2:E:602:VAL:HG23	2.19	0.43
2:E:1449:TRP:HB2	2:E:1553:PHE:HB2	1.99	0.43
2:E:1609:PRO:HB2	2:E:1612:PHE:CZ	2.54	0.43
2:E:1714:LEU:O	2:E:1718:ILE:HG12	2.18	0.43
2:E:2920:ARG:O	2:E:2924:GLN:HG2	2.19	0.43
2:E:3098:SER:O	2:E:3101:GLU:HG3	2.19	0.43
2:E:4181:ILE:HG13	2:E:4182:GLU:N	2.34	0.43
2:E:4584:ASP:HA	2:E:4628:VAL:HA	2.01	0.43
2:G:157:ARG:HH21	2:G:161:GLU:HB3	1.83	0.43
2:G:284:HIS:HE1	2:G:286:THR:HB	1.84	0.43
2:G:911:HIS:HB2	2:G:913:LEU:HG	2.01	0.43
2:G:1018:ASN:HB3	2:G:1021:LEU:HD23	1.99	0.43
2:G:1075:PHE:HB2	2:G:1192:CYS:SG	2.59	0.43
2:G:1421:ARG:O	2:G:1570:LYS:NZ	2.52	0.43
2:G:1776:HIS:NE2	2:G:2157:GLU:OE2	2.46	0.43
2:G:3098:SER:O	2:G:3101:GLU:HG3	2.19	0.43
2:J:220:LEU:CD1	2:J:390:LEU:HB3	2.49	0.43
2:J:680:THR:HG23	2:J:784:SER:HB2	2.00	0.43
2:J:1644:GLU:HB3	2:J:1646:ARG:HG2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2101:MET:SD	2:J:2104:ARG:NH2	2.89	0.43
2:J:3145:GLN:HA	2:J:3196:ARG:NH2	2.30	0.43
2:J:3391:GLU:HA	2:J:3394:VAL:HG22	2.00	0.43
2:J:3428:ASN:HD21	2:J:3430:ASN:HB2	1.84	0.43
2:J:4576:ILE:HG21	2:J:4643:LEU:HB2	2.01	0.43
2:J:4928:LEU:O	2:J:4932:ILE:HG12	2.19	0.43
3:C:36:TRP:NE1	3:C:93:TYR:HB3	2.33	0.43
3:C:107:TRP:HE3	3:C:111:ASN:HD21	1.66	0.43
3:F:36:TRP:NE1	3:F:93:TYR:HB3	2.33	0.43
2:B:117:TYR:N	2:B:138:GLN:O	2.52	0.43
2:B:284:HIS:CE1	2:B:286:THR:HB	2.54	0.43
2:B:688:LEU:HD11	2:B:774:ASP:O	2.19	0.43
2:B:1423:ASP:OD2	2:B:1426:ILE:HG12	2.18	0.43
2:B:1575:LEU:O	2:B:1579:MET:HG2	2.19	0.43
2:B:2261:SER:HB3	2:B:2273:LEU:HB2	1.99	0.43
2:B:3391:GLU:HA	2:B:3394:VAL:HG22	2.00	0.43
2:B:4552:LEU:HD22	2:B:4663:CYS:SG	2.59	0.43
2:B:4802:GLY:HA2	2:B:4808:PHE:HB2	2.01	0.43
2:B:4928:LEU:O	2:B:4932:ILE:HG12	2.19	0.43
2:E:688:LEU:HD11	2:E:774:ASP:O	2.19	0.43
2:E:1018:ASN:HB3	2:E:1021:LEU:HD23	1.99	0.43
2:E:1249:PRO:HG2	2:E:1252:HIS:HB2	2.01	0.43
2:E:3368:ARG:HA	2:E:3371:LYS:HG2	2.00	0.43
2:E:4576:ILE:HG21	2:E:4643:LEU:HB2	2.01	0.43
2:G:984:LEU:HB2	2:G:1055:PRO:HG3	1.99	0.43
2:G:1733:GLU:HG2	2:G:2201:LEU:HA	1.99	0.43
2:G:2920:ARG:O	2:G:2924:GLN:HG2	2.19	0.43
2:G:3203:VAL:HG23	2:G:3214:ASN:HD22	1.84	0.43
2:G:3962:PHE:O	2:G:3966:THR:HG23	2.19	0.43
2:G:4552:LEU:HD22	2:G:4663:CYS:SG	2.59	0.43
2:J:887:ILE:HD13	2:J:959:TYR:HB3	2.00	0.43
2:J:1249:PRO:HG2	2:J:1252:HIS:HB2	2.01	0.43
2:J:1730:MET:HE2	2:J:1773:PRO:HD2	2.01	0.43
2:J:1758:ARG:NH1	2:J:2036:GLN:HG3	2.33	0.43
2:J:2364:PHE:CD1	2:J:2429:LEU:HD21	2.47	0.43
2:J:3302:PRO:HA	2:J:3303:PRO:HD3	1.93	0.43
2:J:4733:GLY:HA3	2:J:4736:ARG:HH11	1.82	0.43
3:F:36:TRP:CZ3	3:F:78:VAL:HG11	2.54	0.43
3:M:36:TRP:NE1	3:M:93:TYR:HB3	2.33	0.43
1:D:13:ARG:HG3	1:D:14:THR:N	2.33	0.43
2:B:82:LEU:HD11	2:B:144:GLU:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:531:ARG:NH2	2:B:562:GLU:OE2	2.50	0.43
2:B:1249:PRO:HG2	2:B:1252:HIS:HB2	2.01	0.43
2:B:1421:ARG:O	2:B:1570:LYS:NZ	2.52	0.43
2:B:2496:PRO:HB3	2:B:2550:LEU:HD23	2.00	0.43
2:B:2555:CYS:SG	2:B:2599:GLN:HG2	2.59	0.43
2:B:3166:TYR:HE2	2:B:3239:MET:HG3	1.84	0.43
2:B:3169:LEU:HA	2:B:3172:ILE:HG22	2.00	0.43
2:B:3592:ILE:HG12	2:B:3595:ARG:NH2	2.34	0.43
2:B:4027:LEU:HD12	2:B:4028:LEU:N	2.33	0.43
2:E:1154:ASP:O	2:E:1158:ASN:N	2.52	0.43
2:E:2261:SER:HB3	2:E:2273:LEU:HB2	1.99	0.43
2:E:2357:LEU:HD13	2:E:2364:PHE:HZ	1.84	0.43
2:E:2454:ARG:O	2:E:2458:ARG:HG3	2.19	0.43
2:E:2759:ALA:HA	2:E:2809:ILE:HG12	2.00	0.43
2:E:3015:LEU:HD23	2:E:3025:LEU:HD11	2.01	0.43
2:E:3229:ILE:HG23	2:E:3230:LEU:HD22	2.00	0.43
2:E:4546:VAL:HG22	2:E:4550:LYS:HE3	2.00	0.43
2:G:22:LEU:HB3	2:G:200:TRP:CE3	2.54	0.43
2:G:215:THR:HB	2:G:271:GLY:O	2.17	0.43
2:G:551:LEU:HD23	2:G:560:ILE:HG13	2.01	0.43
2:G:560:ILE:HA	2:G:563:VAL:HG12	2.00	0.43
2:G:1449:TRP:HB2	2:G:1553:PHE:HB2	1.99	0.43
2:G:2527:LEU:HB2	2:G:2582:MET:HE1	2.00	0.43
2:G:2738:ARG:HH22	2:G:2888:ARG:HH21	1.66	0.43
2:J:911:HIS:HB2	2:J:913:LEU:HG	2.01	0.43
2:J:1420:ASN:HB2	2:J:1570:LYS:HD2	1.99	0.43
2:J:2694:GLU:CD	2:J:2697:ARG:HH21	2.22	0.43
2:J:2697:ARG:NH2	2:J:2698:MET:HB3	2.33	0.43
2:J:2920:ARG:O	2:J:2924:GLN:HG2	2.19	0.43
2:J:3098:SER:O	2:J:3101:GLU:HG3	2.19	0.43
3:F:51:ILE:C	3:F:71:ARG:HH21	2.19	0.43
1:I:3:GLU:HB3	1:I:75:THR:CG2	2.48	0.43
2:B:220:LEU:CD1	2:B:390:LEU:HB3	2.49	0.43
2:B:284:HIS:HE1	2:B:286:THR:HB	1.84	0.43
2:B:360:ALA:O	2:B:361:ALA:C	2.54	0.43
2:B:835:ARG:HB3	2:B:838:HIS:CE1	2.54	0.43
2:B:1758:ARG:NH1	2:B:2036:GLN:HG3	2.34	0.43
2:B:2691:TYR:HA	2:B:2696:TYR:CE1	2.54	0.43
2:B:2920:ARG:O	2:B:2924:GLN:HG2	2.19	0.43
2:B:3368:ARG:HA	2:B:3371:LYS:HG2	2.00	0.43
2:B:3886:ARG:HD2	2:B:3889:GLN:HE21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1575:LEU:O	2:E:1579:MET:HG2	2.19	0.43
2:E:2251:PHE:CE1	2:E:2254:LEU:HD22	2.54	0.43
2:E:2273:LEU:HG	2:E:2334:PHE:CE2	2.54	0.43
2:E:2691:TYR:HA	2:E:2696:TYR:CE1	2.54	0.43
2:E:2965:ARG:O	2:E:2969:ILE:HG13	2.18	0.43
2:E:3166:TYR:HE2	2:E:3239:MET:HG3	1.84	0.43
2:E:4928:LEU:O	2:E:4932:ILE:HG12	2.19	0.43
2:G:64:ILE:C	2:G:111:HIS:HE2	2.22	0.43
2:G:598:LYS:O	2:G:602:VAL:HG23	2.19	0.43
2:G:887:ILE:HD13	2:G:959:TYR:HB3	2.00	0.43
2:G:1647:CYS:O	2:G:1648:MET:SD	2.77	0.43
2:G:2454:ARG:O	2:G:2458:ARG:HG3	2.19	0.43
2:G:2680:TRP:CZ3	2:G:2962:GLN:HG3	2.54	0.43
2:G:2691:TYR:HA	2:G:2696:TYR:CE1	2.54	0.43
2:G:3886:ARG:HD2	2:G:3889:GLN:HE21	1.84	0.43
2:G:4576:ILE:HG21	2:G:4643:LEU:HB2	2.01	0.43
2:G:4802:GLY:HA2	2:G:4808:PHE:HB2	2.01	0.43
2:G:4928:LEU:O	2:G:4932:ILE:HG12	2.19	0.43
2:J:590:LEU:HG	2:J:599:VAL:HG11	2.01	0.43
2:J:1568:LYS:HE2	2:J:1574:PRO:HD3	1.99	0.43
2:J:2768:PHE:HB2	2:J:2857:PRO:HD2	2.00	0.43
2:J:3368:ARG:HA	2:J:3371:LYS:HG2	2.00	0.43
2:J:3445:TRP:CE2	2:J:3452:LYS:HG2	2.53	0.43
2:J:3592:ILE:HG12	2:J:3595:ARG:NH2	2.34	0.43
2:J:4181:ILE:HG13	2:J:4182:GLU:N	2.34	0.43
2:J:4225:GLY:O	2:J:4230:LYS:NZ	2.52	0.43
2:J:4552:LEU:HD22	2:J:4663:CYS:SG	2.59	0.43
3:F:51:ILE:HG23	3:F:71:ARG:HE	1.82	0.43
2:B:1161:ILE:HG13	2:B:1177:THR:HG22	2.00	0.43
2:B:1207:ASP:OD1	2:B:1210:SER:HB3	2.19	0.43
2:B:2477:PRO:HG2	2:B:2536:LEU:HD11	2.00	0.43
2:B:4888:TYR:OH	2:G:4913:ARG:NH2	2.52	0.43
2:E:220:LEU:CD1	2:E:390:LEU:HB3	2.49	0.43
2:E:360:ALA:HA	2:E:377:ILE:CD1	2.48	0.43
2:E:766:GLY:HA3	2:E:1476:MET:HE1	2.01	0.43
2:E:2595:LEU:CB	2:E:2600:ARG:HG3	2.48	0.43
2:E:2754:PHE:HB2	2:E:2935:TYR:OH	2.19	0.43
2:E:3023:LYS:HZ3	2:E:3025:LEU:HB2	1.84	0.43
2:E:3144:PHE:HA	2:E:3147:ILE:HG12	2.00	0.43
2:E:3449:HIS:HA	2:E:3452:LYS:HE2	2.01	0.43
2:E:3720:TYR:O	2:E:3723:MET:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:3886:ARG:HD2	2:E:3889:GLN:HE21	1.84	0.43
2:E:4552:LEU:HD22	2:E:4663:CYS:SG	2.59	0.43
2:G:682:LEU:HD22	2:G:738:LEU:HD22	2.01	0.43
2:G:688:LEU:HD11	2:G:774:ASP:O	2.19	0.43
2:G:835:ARG:HB3	2:G:838:HIS:CE1	2.54	0.43
2:G:1249:PRO:HG2	2:G:1252:HIS:HB2	2.01	0.43
2:G:1758:ARG:NH1	2:G:2036:GLN:HG3	2.33	0.43
2:G:1808:ARG:HG3	2:G:1854:PHE:CE1	2.53	0.43
2:G:3169:LEU:HA	2:G:3172:ILE:HG22	2.00	0.43
2:G:3375:GLU:O	2:G:3379:LEU:HD23	2.18	0.43
2:G:3866:ILE:HG23	2:G:3868:ARG:HG3	2.01	0.43
2:G:4150:LEU:O	2:G:4154:VAL:HG12	2.19	0.43
2:J:22:LEU:HB3	2:J:200:TRP:CE3	2.54	0.43
2:J:1000:ARG:HH12	3:K:114:TYR:HA	1.83	0.43
2:J:2212:VAL:HG22	2:J:2256:TYR:CZ	2.54	0.43
2:J:2336:ARG:HB2	2:J:2435:ARG:CD	2.45	0.43
2:J:3015:LEU:HD23	2:J:3025:LEU:HD11	2.01	0.43
2:J:3144:PHE:HA	2:J:3147:ILE:HG12	2.00	0.43
2:J:3362:ILE:HD12	2:J:3362:ILE:HA	1.91	0.43
2:J:4802:GLY:HA2	2:J:4808:PHE:HB2	2.01	0.43
3:K:36:TRP:CZ3	3:K:78:VAL:HG11	2.54	0.43
3:K:98:ASP:N	3:K:98:ASP:OD1	2.49	0.43
1:D:55:VAL:HG23	2:E:1783:VAL:HB	2.00	0.42
2:B:21:VAL:HB	2:B:205:ILE:HD11	2.00	0.42
2:B:887:ILE:HD13	2:B:959:TYR:HB3	2.00	0.42
2:B:3069:HIS:HD2	2:B:3142:THR:HB	1.84	0.42
2:B:3203:VAL:HG23	2:B:3214:ASN:HD22	1.84	0.42
2:B:3445:TRP:CE2	2:B:3452:LYS:HG2	2.53	0.42
2:B:4225:GLY:O	2:B:4230:LYS:NZ	2.52	0.42
2:B:4243:PHE:O	2:B:4247:ILE:HG12	2.18	0.42
2:E:551:LEU:HD23	2:E:560:ILE:HG13	2.01	0.42
2:E:790:ARG:HA	2:E:1626:TRP:O	2.19	0.42
2:E:1421:ARG:O	2:E:1570:LYS:NZ	2.52	0.42
2:E:2212:VAL:HG22	2:E:2256:TYR:CZ	2.54	0.42
2:E:2496:PRO:HB3	2:E:2550:LEU:HD23	2.00	0.42
2:E:3428:ASN:HD21	2:E:3430:ASN:HB2	1.83	0.42
2:E:4661:TYR:HA	2:E:4664:LEU:HD23	2.01	0.42
2:E:5012:LYS:O	2:E:5016:GLU:HG2	2.19	0.42
2:G:21:VAL:HB	2:G:205:ILE:HD11	2.00	0.42
2:G:220:LEU:CD1	2:G:390:LEU:HB3	2.49	0.42
2:G:284:HIS:CE1	2:G:286:THR:HB	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:1207:ASP:OD1	2:G:1210:SER:HB3	2.19	0.42
2:G:1439:VAL:HB	2:G:1514:LEU:HB2	2.01	0.42
2:G:1575:LEU:O	2:G:1579:MET:HG2	2.19	0.42
2:G:2189:LYS:NZ	2:G:2193:GLN:OE1	2.33	0.42
2:G:2482:ASP:N	2:G:2482:ASP:OD1	2.51	0.42
2:G:3166:TYR:HE2	2:G:3239:MET:HG3	1.84	0.42
2:G:3187:ARG:NH2	2:G:3268:HIS:HB2	2.34	0.42
2:G:3413:ILE:HA	2:G:3516:LYS:NZ	2.34	0.42
2:G:3895:HIS:H	2:G:3970:GLN:NE2	2.16	0.42
2:G:3921:ASP:O	2:G:3925:ARG:HG3	2.18	0.42
2:J:214:VAL:HA	2:J:341:TYR:CD1	2.53	0.42
2:J:551:LEU:HD23	2:J:560:ILE:HG13	2.01	0.42
2:J:2173:GLN:O	2:J:2177:LEU:HD23	2.19	0.42
2:J:2577:ILE:HG13	2:J:2578:MET:N	2.33	0.42
2:J:2621:HIS:HA	2:J:2624:ARG:HD3	2.02	0.42
2:J:3375:GLU:O	2:J:3379:LEU:HD23	2.18	0.42
2:J:3713:LYS:NZ	2:J:3717:ASP:OD1	2.52	0.42
2:J:3886:ARG:HD2	2:J:3889:GLN:HE21	1.84	0.42
2:J:4150:LEU:O	2:J:4154:VAL:HG12	2.19	0.42
2:B:22:LEU:HB3	2:B:200:TRP:CE3	2.54	0.42
2:B:790:ARG:HA	2:B:1626:TRP:O	2.19	0.42
2:B:1776:HIS:NE2	2:B:2157:GLU:OE2	2.46	0.42
2:B:3962:PHE:O	2:B:3966:THR:HG23	2.18	0.42
2:B:4546:VAL:HG22	2:B:4550:LYS:HE3	2.00	0.42
2:E:1207:ASP:OD1	2:E:1210:SER:HB3	2.19	0.42
2:E:2101:MET:SD	2:E:2104:ARG:NH2	2.89	0.42
2:E:3375:GLU:O	2:E:3379:LEU:HD23	2.18	0.42
2:E:3390:GLY:O	2:E:3394:VAL:HG13	2.20	0.42
2:E:4068:LEU:O	2:E:4072:VAL:HG23	2.20	0.42
2:E:4225:GLY:O	2:E:4230:LYS:NZ	2.52	0.42
2:G:480:GLU:OE2	2:G:481:GLU:HG2	2.19	0.42
2:G:1623:ARG:H	2:G:1623:ARG:HD3	1.83	0.42
2:G:2621:HIS:HA	2:G:2624:ARG:HD3	2.02	0.42
2:G:2954:ARG:NH1	2:G:3030:HIS:O	2.52	0.42
2:G:3341:PHE:O	2:G:3344:PRO:HD2	2.19	0.42
2:G:3391:GLU:HA	2:G:3394:VAL:HG22	2.00	0.42
2:G:3713:LYS:NZ	2:G:3717:ASP:OD1	2.52	0.42
2:G:4147:LEU:HD23	2:G:4171:LEU:CD2	2.50	0.42
2:J:284:HIS:CE1	2:J:286:THR:HB	2.54	0.42
2:J:365:LYS:O	2:J:369:LEU:HG	2.19	0.42
2:J:598:LYS:O	2:J:602:VAL:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:1808:ARG:HG3	2:J:1854:PHE:CE1	2.53	0.42
2:J:2691:TYR:HA	2:J:2696:TYR:CE1	2.54	0.42
2:J:3449:HIS:HA	2:J:3452:LYS:HE2	2.01	0.42
2:J:3720:TYR:O	2:J:3723:MET:HG3	2.19	0.42
2:J:4147:LEU:HD23	2:J:4171:LEU:CD2	2.49	0.42
2:J:4243:PHE:O	2:J:4247:ILE:HG12	2.18	0.42
2:B:157:ARG:HH21	2:B:161:GLU:HB3	1.83	0.42
2:B:972:LEU:HB2	2:B:1044:ARG:HH21	1.85	0.42
2:B:1866:ILE:HD12	2:B:1939:MET:SD	2.59	0.42
2:B:2751:LEU:HD23	2:B:2751:LEU:H	1.83	0.42
2:B:3054:VAL:HG21	2:B:3131:TYR:HB2	2.02	0.42
2:B:3341:PHE:O	2:B:3344:PRO:HD2	2.19	0.42
2:B:4068:LEU:O	2:B:4072:VAL:HG23	2.20	0.42
2:E:365:LYS:O	2:E:369:LEU:HG	2.19	0.42
2:E:1087:ARG:HG2	2:E:1154:ASP:HA	2.01	0.42
2:E:1158:ASN:HB3	2:E:1182:ILE:N	2.28	0.42
2:E:2697:ARG:NH2	2:E:2698:MET:HB3	2.33	0.42
2:E:2996:LYS:HD3	2:E:2996:LYS:HA	1.84	0.42
2:E:3187:ARG:NH2	2:E:3268:HIS:HB2	2.34	0.42
2:E:3252:ASP:O	2:E:3256:LEU:HG	2.19	0.42
2:E:3341:PHE:O	2:E:3344:PRO:HD2	2.19	0.42
2:E:3379:LEU:HD12	2:E:3387:ALA:HA	2.01	0.42
2:E:4147:LEU:HD23	2:E:4171:LEU:CD2	2.49	0.42
2:G:111:HIS:HE1	2:G:113:HIS:HB3	1.83	0.42
2:G:1244:GLN:OE1	2:G:1646:ARG:NH1	2.51	0.42
2:G:2212:VAL:HG22	2:G:2256:TYR:CZ	2.54	0.42
2:G:2775:TRP:CE2	2:G:2786:LYS:HE2	2.54	0.42
2:G:4049:VAL:HG12	2:G:4163:PHE:CZ	2.54	0.42
2:G:4181:ILE:HG13	2:G:4182:GLU:N	2.34	0.42
2:G:4555:LEU:HD22	2:G:4562:LEU:HD11	2.00	0.42
2:J:21:VAL:HB	2:J:205:ILE:HD11	2.00	0.42
2:J:82:LEU:HD11	2:J:144:GLU:HB3	2.00	0.42
2:J:1083:VAL:HG23	2:J:1155:LEU:HD11	2.01	0.42
2:J:1087:ARG:HG2	2:J:1154:ASP:HA	2.01	0.42
2:J:1293:LEU:HD11	2:J:1594:ARG:HG2	2.01	0.42
2:J:1500:PHE:HE1	2:J:1536:SER:HG	1.67	0.42
2:J:1623:ARG:HD3	2:J:1623:ARG:H	1.83	0.42
2:J:3886:ARG:HA	2:J:3889:GLN:HE21	1.84	0.42
2:J:4049:VAL:HG12	2:J:4163:PHE:CZ	2.54	0.42
1:D:7:ILE:HB	1:D:71:ARG:O	2.18	0.42
2:B:911:HIS:HB2	2:B:913:LEU:HG	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1075:PHE:HB2	2:B:1192:CYS:SG	2.59	0.42
2:B:1839:VAL:HG21	2:B:1934:SER:HB2	2.00	0.42
2:B:2694:GLU:OE2	2:B:2697:ARG:NH2	2.52	0.42
2:B:2754:PHE:HB2	2:B:2935:TYR:OH	2.19	0.42
2:B:2954:ARG:NH1	2:B:3030:HIS:O	2.52	0.42
2:B:3428:ASN:HD21	2:B:3430:ASN:HB2	1.84	0.42
2:B:3754:GLU:O	2:B:3758:MET:HG2	2.19	0.42
2:B:3886:ARG:HA	2:B:3889:GLN:HE21	1.84	0.42
2:B:4046:ASP:O	2:B:4049:VAL:HG22	2.18	0.42
2:E:480:GLU:OE2	2:E:481:GLU:HG2	2.19	0.42
2:E:911:HIS:HB2	2:E:913:LEU:HG	2.01	0.42
2:E:1161:ILE:HG13	2:E:1177:THR:HG22	2.00	0.42
2:E:2694:GLU:OE2	2:E:2697:ARG:NH2	2.52	0.42
2:E:2775:TRP:CE2	2:E:2786:LYS:HE2	2.54	0.42
2:E:2954:ARG:NH1	2:E:3030:HIS:O	2.52	0.42
2:E:3069:HIS:HD2	2:E:3142:THR:HB	1.84	0.42
2:E:4555:LEU:HD22	2:E:4562:LEU:HD11	2.00	0.42
2:G:358:THR:O	2:G:377:ILE:HG12	2.19	0.42
2:G:766:GLY:HA3	2:G:1476:MET:HE1	2.01	0.42
2:G:1083:VAL:HG23	2:G:1155:LEU:HD11	2.01	0.42
2:G:1293:LEU:HD11	2:G:1594:ARG:HG2	2.01	0.42
2:G:2173:GLN:O	2:G:2177:LEU:HD23	2.19	0.42
2:G:2251:PHE:CE1	2:G:2254:LEU:HD22	2.54	0.42
2:G:3069:HIS:HD2	2:G:3142:THR:HB	1.84	0.42
2:G:3144:PHE:HA	2:G:3147:ILE:HG12	2.00	0.42
2:G:3449:HIS:HA	2:G:3452:LYS:HE2	2.02	0.42
2:G:3720:TYR:O	2:G:3723:MET:HG3	2.19	0.42
2:G:4682:GLU:HA	2:G:4724:VAL:HG22	2.02	0.42
2:J:531:ARG:NH2	2:J:562:GLU:OE2	2.50	0.42
2:J:849:THR:O	2:J:852:VAL:HG22	2.20	0.42
2:J:1727:ARG:NH1	2:J:1851:MET:O	2.52	0.42
2:J:1816:GLY:HA2	2:J:1865:MET:CE	2.50	0.42
2:J:2137:ALA:O	2:J:2140:ARG:HG2	2.20	0.42
2:J:2273:LEU:HG	2:J:2334:PHE:CE2	2.54	0.42
2:J:2694:GLU:OE2	2:J:2697:ARG:NH2	2.52	0.42
2:J:2759:ALA:HA	2:J:2809:ILE:HG12	2.00	0.42
2:J:2954:ARG:NH1	2:J:3030:HIS:O	2.52	0.42
2:J:3195:ALA:HB2	2:J:3275:PRO:HB3	2.02	0.42
2:J:3284:TRP:HB3	2:J:3305:THR:HG21	2.02	0.42
2:J:4068:LEU:O	2:J:4072:VAL:HG23	2.20	0.42
2:J:4147:LEU:HD22	2:J:4167:ALA:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:360:ALA:HA	2:B:377:ILE:CD1	2.49	0.42
2:B:480:GLU:OE2	2:B:481:GLU:HG2	2.19	0.42
2:B:2126:ARG:NH2	2:B:2133:GLU:OE2	2.48	0.42
2:B:2527:LEU:HD22	2:B:2582:MET:HE2	1.99	0.42
2:B:4147:LEU:HD22	2:B:4167:ALA:HB3	2.02	0.42
2:B:4994:TYR:O	2:B:4998:LYS:HG2	2.20	0.42
2:E:181:HIS:ND1	2:E:198:THR:OG1	2.50	0.42
2:E:849:THR:O	2:E:852:VAL:HG22	2.20	0.42
2:E:1727:ARG:NH1	2:E:1851:MET:O	2.52	0.42
2:E:2173:GLN:O	2:E:2177:LEU:HD23	2.19	0.42
2:E:3413:ILE:HG12	2:E:3516:LYS:HZ1	1.84	0.42
2:E:3885:PHE:O	2:E:3889:GLN:HG2	2.20	0.42
2:G:849:THR:O	2:G:852:VAL:HG22	2.20	0.42
2:G:1128:ARG:HH21	2:G:1132:TRP:HZ2	1.67	0.42
2:G:1661:ARG:O	2:G:1665:HIS:HD2	2.00	0.42
2:G:1670:TYR:HA	2:G:1673:VAL:HG22	2.01	0.42
2:G:1727:ARG:NH1	2:G:1851:MET:O	2.53	0.42
2:G:2137:ALA:O	2:G:2140:ARG:HG2	2.20	0.42
2:G:2357:LEU:HD13	2:G:2364:PHE:HZ	1.84	0.42
2:G:2374:SER:OG	2:G:2375:GLY:N	2.53	0.42
2:G:3445:TRP:CE2	2:G:3452:LYS:HG2	2.53	0.42
2:G:3553:LEU:HD23	2:G:3593:VAL:HA	2.01	0.42
2:G:4147:LEU:HD22	2:G:4167:ALA:HB3	2.02	0.42
2:G:4225:GLY:O	2:G:4230:LYS:NZ	2.52	0.42
2:J:284:HIS:HE1	2:J:286:THR:HB	1.84	0.42
2:J:972:LEU:HB2	2:J:1044:ARG:HH21	1.85	0.42
2:J:1075:PHE:HB2	2:J:1192:CYS:SG	2.59	0.42
2:J:1154:ASP:O	2:J:1158:ASN:N	2.52	0.42
2:J:1207:ASP:OD1	2:J:1210:SER:HB3	2.19	0.42
2:J:1421:ARG:O	2:J:1570:LYS:NZ	2.52	0.42
2:J:2454:ARG:O	2:J:2458:ARG:HG3	2.19	0.42
2:J:4181:ILE:HG13	2:J:4182:GLU:H	1.84	0.42
3:F:14:ALA:HA	3:F:85:LEU:HB2	2.02	0.42
2:B:551:LEU:HD23	2:B:560:ILE:HG13	2.01	0.42
2:B:682:LEU:HD22	2:B:738:LEU:HD22	2.01	0.42
2:B:1854:PHE:HD1	2:B:1858:ASP:HB3	1.85	0.42
2:B:3284:TRP:HB3	2:B:3305:THR:HG21	2.02	0.42
2:B:3449:HIS:HA	2:B:3452:LYS:HE2	2.01	0.42
2:B:4147:LEU:HD23	2:B:4171:LEU:CD2	2.49	0.42
2:B:5012:LYS:O	2:B:5016:GLU:HG2	2.19	0.42
2:E:103:TYR:CZ	2:E:163:VAL:HG12	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:341:TYR:HE2	2:E:392:ARG:HB2	1.85	0.42
2:E:472:ARG:NH1	2:E:475:GLN:OE1	2.53	0.42
2:E:1075:PHE:HB2	2:E:1192:CYS:SG	2.59	0.42
2:E:1816:GLY:HA2	2:E:1865:MET:CE	2.50	0.42
2:E:2182:ILE:HG22	2:E:2186:MET:HE1	2.02	0.42
2:E:2477:PRO:HG2	2:E:2536:LEU:HD11	2.00	0.42
2:E:2878:LEU:HG	2:E:2882:TYR:CZ	2.54	0.42
2:E:3413:ILE:HA	2:E:3516:LYS:NZ	2.34	0.42
2:E:3592:ILE:HG12	2:E:3595:ARG:NH2	2.34	0.42
2:E:4204:GLN:NE2	2:E:4248:ALA:HB3	2.35	0.42
2:E:4682:GLU:HA	2:E:4724:VAL:HG22	2.02	0.42
2:G:790:ARG:HA	2:G:1626:TRP:O	2.19	0.42
2:G:972:LEU:HB2	2:G:1044:ARG:HH21	1.85	0.42
2:G:1066:GLN:HA	2:G:1069:TRP:CH2	2.55	0.42
2:G:2754:PHE:HB2	2:G:2935:TYR:OH	2.19	0.42
2:G:2878:LEU:HG	2:G:2882:TYR:CZ	2.54	0.42
2:G:3023:LYS:HZ3	2:G:3025:LEU:HB2	1.84	0.42
2:G:3054:VAL:HG21	2:G:3131:TYR:HB2	2.02	0.42
2:G:3368:ARG:HA	2:G:3371:LYS:HG2	2.00	0.42
2:G:3962:PHE:HA	2:G:3965:LEU:HD12	2.01	0.42
2:G:4546:VAL:HG22	2:G:4550:LYS:HE3	2.00	0.42
2:J:157:ARG:HH21	2:J:161:GLU:HB3	1.83	0.42
2:J:835:ARG:HB3	2:J:838:HIS:CE1	2.54	0.42
2:J:1439:VAL:HB	2:J:1514:LEU:HB2	2.01	0.42
2:J:1575:LEU:O	2:J:1579:MET:HG2	2.19	0.42
2:J:2747:ILE:HD13	2:J:2814:LYS:HA	2.02	0.42
2:J:2754:PHE:HB2	2:J:2935:TYR:OH	2.19	0.42
2:J:2775:TRP:CE2	2:J:2786:LYS:HE2	2.54	0.42
2:J:2965:ARG:O	2:J:2969:ILE:HG13	2.18	0.42
2:J:3054:VAL:HG21	2:J:3131:TYR:HB2	2.02	0.42
2:J:3252:ASP:O	2:J:3256:LEU:HG	2.19	0.42
2:J:4555:LEU:HD22	2:J:4562:LEU:HD11	2.00	0.42
2:J:4682:GLU:HA	2:J:4724:VAL:HG22	2.02	0.42
1:D:31:GLN:NE2	2:E:1299:GLN:HB3	2.34	0.42
2:B:365:LYS:O	2:B:369:LEU:HG	2.19	0.42
2:B:515:TRP:CZ3	2:B:555:GLU:HG2	2.55	0.42
2:B:1157:GLU:O	2:B:1159:THR:HG23	2.20	0.42
2:B:1771:LEU:HD12	2:B:2144:ILE:HD11	2.02	0.42
2:B:2374:SER:OG	2:B:2375:GLY:N	2.53	0.42
2:B:2431:ASP:O	2:B:2435:ARG:HG2	2.20	0.42
2:B:2747:ILE:HD13	2:B:2814:LYS:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2815:ALA:HB1	2:B:2881:ASN:ND2	2.35	0.42
2:B:3015:LEU:HD23	2:B:3025:LEU:HD11	2.01	0.42
2:B:3144:PHE:HA	2:B:3147:ILE:HG12	2.00	0.42
2:B:3187:ARG:NH1	2:B:3267:PRO:HB2	2.35	0.42
2:B:3866:ILE:HG23	2:B:3868:ARG:HG3	2.00	0.42
2:B:3885:PHE:O	2:B:3889:GLN:HG2	2.20	0.42
2:B:3951:PHE:HB3	2:B:3955:MET:HE1	2.02	0.42
2:B:4154:VAL:O	2:B:4154:VAL:HG13	2.20	0.42
2:B:4181:ILE:HG13	2:B:4182:GLU:N	2.34	0.42
2:B:4682:GLU:HA	2:B:4724:VAL:HG22	2.02	0.42
2:E:972:LEU:HB2	2:E:1044:ARG:HH21	1.85	0.42
2:E:1293:LEU:HD11	2:E:1594:ARG:HG2	2.01	0.42
2:E:1866:ILE:HD12	2:E:1939:MET:SD	2.59	0.42
2:E:2137:ALA:O	2:E:2140:ARG:HG2	2.20	0.42
2:E:2815:ALA:HB1	2:E:2881:ASN:ND2	2.35	0.42
2:E:3886:ARG:HA	2:E:3889:GLN:HE21	1.84	0.42
2:G:246:TYR:HD2	2:G:373:LYS:HE3	1.78	0.42
2:G:487:VAL:O	2:G:491:ILE:HG13	2.20	0.42
2:G:595:ARG:HH22	2:G:1641:ILE:HG23	1.85	0.42
2:G:1154:ASP:O	2:G:1158:ASN:N	2.52	0.42
2:G:3195:ALA:HB2	2:G:3275:PRO:HB3	2.02	0.42
2:G:4584:ASP:HA	2:G:4628:VAL:HA	2.01	0.42
2:G:4994:TYR:O	2:G:4998:LYS:HG2	2.20	0.42
2:J:299:LEU:HD11	2:J:376:ALA:HB3	2.01	0.42
2:J:487:VAL:O	2:J:491:ILE:HG13	2.20	0.42
2:J:790:ARG:HA	2:J:1626:TRP:O	2.19	0.42
2:J:1854:PHE:HD1	2:J:1858:ASP:HB3	1.85	0.42
2:J:2263:ILE:O	2:J:2267:MET:HG2	2.20	0.42
2:J:3144:PHE:CE2	2:J:3197:LEU:HB3	2.54	0.42
2:J:3390:GLY:O	2:J:3394:VAL:HG13	2.20	0.42
2:J:4071:ILE:HD13	2:J:4103:PHE:CE2	2.50	0.42
2:J:4661:TYR:HA	2:J:4664:LEU:HD23	2.01	0.42
3:C:105:ASN:ND2	3:C:108:GLY:O	2.52	0.42
2:B:2251:PHE:CE1	2:B:2254:LEU:HD22	2.54	0.42
2:B:2273:LEU:HG	2:B:2334:PHE:CE2	2.54	0.42
2:B:2694:GLU:CD	2:B:2697:ARG:HH21	2.22	0.42
2:B:3413:ILE:HA	2:B:3516:LYS:NZ	2.34	0.42
2:E:583:ILE:O	2:E:587:ILE:HG13	2.20	0.42
2:E:1000:ARG:HH12	3:F:114:TYR:HA	1.84	0.42
2:E:2431:ASP:O	2:E:2435:ARG:HG2	2.20	0.42
2:E:2747:ILE:HD13	2:E:2814:LYS:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:117:TYR:N	2:G:138:GLN:O	2.51	0.42
2:G:515:TRP:CZ3	2:G:555:GLU:HG2	2.55	0.42
2:G:548:VAL:HA	2:G:551:LEU:HG	2.02	0.42
2:G:1100:MET:CE	2:G:1192:CYS:HB2	2.50	0.42
2:G:1432:THR:OG1	2:G:1519:LEU:HG	2.20	0.42
2:G:1496:TRP:CZ2	2:G:1498:GLY:HA3	2.55	0.42
2:G:1771:LEU:HD12	2:G:2144:ILE:HD11	2.02	0.42
2:G:2977:LEU:HA	2:G:2980:VAL:HG22	2.02	0.42
2:G:3284:TRP:HB3	2:G:3305:THR:HG21	2.02	0.42
2:G:3754:GLU:O	2:G:3758:MET:HG2	2.19	0.42
2:G:3885:PHE:O	2:G:3889:GLN:HG2	2.20	0.42
2:G:4068:LEU:O	2:G:4072:VAL:HG23	2.20	0.42
2:G:4197:ILE:HG21	2:G:4202:ARG:HH11	1.85	0.42
2:J:111:HIS:HE1	2:J:113:HIS:HB3	1.83	0.42
2:J:647:ASN:ND2	2:J:822:ARG:HG2	2.35	0.42
2:J:2878:LEU:HG	2:J:2882:TYR:CZ	2.54	0.42
2:J:3166:TYR:HE2	2:J:3239:MET:HG3	1.84	0.42
2:J:3341:PHE:O	2:J:3344:PRO:HD2	2.19	0.42
2:J:3413:ILE:HA	2:J:3516:LYS:NZ	2.34	0.42
2:J:3553:LEU:HD23	2:J:3593:VAL:HA	2.01	0.42
2:J:3713:LYS:NZ	2:J:3716:LEU:HD12	2.35	0.42
3:C:14:ALA:HA	3:C:85:LEU:HB2	2.02	0.42
3:C:36:TRP:CZ3	3:C:78:VAL:HG11	2.54	0.42
3:M:36:TRP:CZ3	3:M:78:VAL:HG11	2.54	0.42
2:B:583:ILE:O	2:B:587:ILE:HG13	2.20	0.42
2:B:2110:TYR:HB2	2:B:3695:PRO:HD2	2.02	0.42
2:B:2212:VAL:HG22	2:B:2256:TYR:CZ	2.54	0.42
2:B:2445:ALA:HB1	2:B:2447:LYS:HE2	2.02	0.42
2:B:2621:HIS:HA	2:B:2624:ARG:HD3	2.02	0.42
2:B:2775:TRP:CE2	2:B:2786:LYS:HE2	2.54	0.42
2:B:2977:LEU:HA	2:B:2980:VAL:HG22	2.02	0.42
2:B:3023:LYS:HZ3	2:B:3025:LEU:HB2	1.84	0.42
2:B:3144:PHE:CE2	2:B:3197:LEU:HB3	2.54	0.42
2:E:835:ARG:HB3	2:E:838:HIS:CE1	2.54	0.42
2:E:1435:TYR:HE1	2:E:1452:TRP:CZ2	2.38	0.42
2:E:1698:LEU:HG	2:E:1712:TYR:CE1	2.55	0.42
2:E:1733:GLU:OE2	2:E:2163:ARG:NH2	2.53	0.42
2:E:1854:PHE:HD1	2:E:1858:ASP:HB3	1.85	0.42
2:E:1965:TYR:O	2:E:1969:LEU:HD23	2.20	0.42
2:E:2700:MET:CE	2:E:3004:PRO:HB2	2.50	0.42
2:E:2737:PRO:HB2	2:E:2884:ASN:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:4150:LEU:O	2:E:4154:VAL:HG12	2.19	0.42
2:E:4879:MET:HE1	2:J:4580:TYR:HB2	2.02	0.42
2:G:103:TYR:CZ	2:G:163:VAL:HG12	2.55	0.42
2:G:210:GLU:HG2	2:G:273:HIS:CD2	2.55	0.42
2:G:664:PHE:HA	2:G:800:PHE:HE1	1.85	0.42
2:G:1854:PHE:HD1	2:G:1858:ASP:HB3	1.85	0.42
2:G:1866:ILE:HD12	2:G:1939:MET:SD	2.59	0.42
2:G:2747:ILE:HD13	2:G:2814:LYS:HA	2.02	0.42
2:G:2911:LEU:HD13	2:G:2915:GLU:HG3	2.02	0.42
2:G:3015:LEU:HD23	2:G:3025:LEU:HD11	2.01	0.42
2:G:3510:ILE:HG21	2:G:3606:LEU:HD22	2.02	0.42
2:G:3886:ARG:HA	2:G:3889:GLN:HE21	1.84	0.42
2:G:3892:CYS:O	2:G:3970:GLN:NE2	2.53	0.42
2:G:4071:ILE:HD13	2:G:4103:PHE:CE2	2.50	0.42
2:G:4154:VAL:O	2:G:4154:VAL:HG13	2.20	0.42
2:G:4181:ILE:HG13	2:G:4182:GLU:H	1.84	0.42
2:J:372:LEU:O	2:J:374:LYS:HG3	2.20	0.42
2:J:548:VAL:HA	2:J:551:LEU:HG	2.02	0.42
2:J:1866:ILE:HD12	2:J:1939:MET:SD	2.59	0.42
2:J:2183:GLY:HA2	2:J:2186:MET:HE1	2.01	0.42
2:J:2423:MET:HE2	2:J:2498:HIS:CD2	2.55	0.42
2:J:2815:ALA:HB1	2:J:2881:ASN:ND2	2.35	0.42
2:J:2911:LEU:HD13	2:J:2915:GLU:HG3	2.01	0.42
2:J:3069:HIS:HD2	2:J:3142:THR:HB	1.84	0.42
2:J:3379:LEU:HD12	2:J:3387:ALA:HA	2.02	0.42
2:J:3866:ILE:HG23	2:J:3868:ARG:HG3	2.00	0.42
2:J:4027:LEU:HD12	2:J:4028:LEU:N	2.34	0.42
2:B:424:LYS:HE2	2:B:424:LYS:HB2	1.90	0.42
2:B:548:VAL:HA	2:B:551:LEU:HG	2.02	0.42
2:B:1147:ASP:HB3	2:B:1164:LEU:HD11	2.02	0.42
2:B:1432:THR:OG1	2:B:1519:LEU:HG	2.20	0.42
2:B:1727:ARG:NH1	2:B:1851:MET:O	2.52	0.42
2:B:3195:ALA:HB2	2:B:3275:PRO:HB3	2.02	0.42
2:B:3252:ASP:O	2:B:3256:LEU:HG	2.19	0.42
2:B:4851:TYR:HA	2:B:4854:VAL:HG22	2.01	0.42
2:E:223:PHE:CD2	2:E:230:CYS:HB3	2.55	0.42
2:E:647:ASN:ND2	2:E:822:ARG:HG2	2.35	0.42
2:E:2223:ILE:HD12	2:E:2223:ILE:HA	1.94	0.42
2:E:2230:THR:O	2:E:2234:ARG:HG3	2.20	0.42
2:E:2263:ILE:O	2:E:2267:MET:HG2	2.20	0.42
2:E:2977:LEU:HA	2:E:2980:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:3054:VAL:HG21	2:E:3131:TYR:HB2	2.02	0.42
2:E:3195:ALA:HB2	2:E:3275:PRO:HB3	2.02	0.42
2:E:3284:TRP:HB3	2:E:3305:THR:HG21	2.02	0.42
2:E:3510:ILE:HG21	2:E:3606:LEU:HD22	2.02	0.42
2:E:3579:LEU:HD23	2:E:3582:ARG:HA	2.02	0.42
2:G:1071:ARG:HA	2:G:1071:ARG:HD3	1.83	0.42
2:G:1087:ARG:HG2	2:G:1154:ASP:HA	2.01	0.42
2:G:1157:GLU:O	2:G:1159:THR:HG23	2.20	0.42
2:G:1423:ASP:OD2	2:G:1425:GLU:HG2	2.20	0.42
2:G:1963:GLU:HA	2:G:1966:VAL:HG12	2.02	0.42
2:G:2456:ILE:O	2:G:2460:LEU:HD23	2.20	0.42
2:G:4062:PHE:CZ	2:G:4139:ILE:HG23	2.54	0.42
2:J:515:TRP:CZ3	2:J:555:GLU:HG2	2.55	0.42
2:J:1698:LEU:HG	2:J:1712:TYR:CE1	2.55	0.42
2:J:4062:PHE:CZ	2:J:4139:ILE:HG23	2.54	0.42
2:J:4154:VAL:HG13	2:J:4154:VAL:O	2.20	0.42
2:J:4998:LYS:HB2	2:J:4998:LYS:HE3	1.82	0.42
2:B:103:TYR:CZ	2:B:163:VAL:HG12	2.55	0.41
2:B:1083:VAL:HG23	2:B:1155:LEU:HD11	2.01	0.41
2:B:1496:TRP:CZ2	2:B:1498:GLY:HA3	2.55	0.41
2:B:1670:TYR:HA	2:B:1673:VAL:HG22	2.01	0.41
2:B:1733:GLU:OE2	2:B:2163:ARG:NH2	2.53	0.41
2:B:1943:LEU:HA	2:B:1946:PHE:CD2	2.55	0.41
2:B:1978:ALA:O	2:B:1981:MET:HG2	2.20	0.41
2:B:2003:GLN:H	2:B:2003:GLN:CD	2.24	0.41
2:B:2137:ALA:O	2:B:2140:ARG:HG2	2.20	0.41
2:B:2173:GLN:O	2:B:2177:LEU:HD23	2.19	0.41
2:B:2962:GLN:OE1	2:B:2965:ARG:HD3	2.20	0.41
2:B:3510:ILE:HG21	2:B:3606:LEU:HD22	2.02	0.41
2:B:3553:LEU:HD23	2:B:3593:VAL:HA	2.01	0.41
2:B:3962:PHE:HA	2:B:3965:LEU:HD12	2.01	0.41
2:B:4097:MET:HE3	2:B:4108:ILE:HA	2.02	0.41
2:B:4181:ILE:HD11	2:B:4988:TYR:CD2	2.55	0.41
2:B:4230:LYS:HB2	2:B:4230:LYS:HZ3	1.85	0.41
2:E:515:TRP:CZ3	2:E:555:GLU:HG2	2.55	0.41
2:E:728:ARG:NH2	2:E:1489:CYS:SG	2.93	0.41
2:E:744:VAL:HG22	2:E:759:ILE:HD12	2.02	0.41
2:E:1066:GLN:HA	2:E:1069:TRP:CH2	2.55	0.41
2:E:2351:ASN:O	2:E:2355:ARG:HD3	2.20	0.41
2:E:2906:VAL:HG23	2:E:2911:LEU:HB3	2.02	0.41
2:E:3144:PHE:CE2	2:E:3197:LEU:HB3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:3866:ILE:HG23	2:E:3868:ARG:HG3	2.00	0.41
2:E:4994:TYR:O	2:E:4998:LYS:HG2	2.20	0.41
2:G:583:ILE:O	2:G:587:ILE:HG13	2.20	0.41
2:G:2273:LEU:HG	2:G:2334:PHE:CE2	2.54	0.41
2:G:2815:ALA:HB1	2:G:2881:ASN:ND2	2.35	0.41
2:G:3187:ARG:NH1	2:G:3267:PRO:HB2	2.35	0.41
2:G:4181:ILE:HD11	2:G:4988:TYR:CD2	2.55	0.41
2:J:103:TYR:CZ	2:J:163:VAL:HG12	2.55	0.41
2:J:1733:GLU:OE2	2:J:2163:ARG:NH2	2.53	0.41
2:J:1965:TYR:O	2:J:1969:LEU:HD23	2.20	0.41
2:J:2906:VAL:HG23	2:J:2911:LEU:HB3	2.02	0.41
2:J:2978:GLU:HA	2:J:2981:VAL:HG12	2.02	0.41
2:J:3187:ARG:NH1	2:J:3267:PRO:HB2	2.35	0.41
2:J:3510:ILE:HG21	2:J:3606:LEU:HD22	2.02	0.41
2:J:3885:PHE:O	2:J:3889:GLN:HG2	2.20	0.41
2:J:4197:ILE:HG21	2:J:4202:ARG:HH11	1.85	0.41
3:M:51:ILE:C	3:M:71:ARG:HH21	2.19	0.41
1:A:55:VAL:HG13	1:A:60:GLU:HB2	2.02	0.41
2:B:595:ARG:HH22	2:B:1641:ILE:HG23	1.85	0.41
2:B:728:ARG:NH2	2:B:1489:CYS:SG	2.93	0.41
2:B:891:TRP:HA	2:B:902:ARG:HB3	2.01	0.41
2:B:1698:LEU:HG	2:B:1712:TYR:CE1	2.55	0.41
2:B:1816:GLY:HA2	2:B:1865:MET:CE	2.50	0.41
2:B:2351:ASN:O	2:B:2355:ARG:HD3	2.20	0.41
2:B:4576:ILE:HG21	2:B:4643:LEU:HB2	2.01	0.41
2:B:4661:TYR:HA	2:B:4664:LEU:HD23	2.01	0.41
2:E:733:PRO:HB2	2:E:762:CYS:SG	2.60	0.41
2:E:1147:ASP:HB3	2:E:1164:LEU:HD11	2.02	0.41
2:E:1423:ASP:OD2	2:E:1425:GLU:HG2	2.20	0.41
2:E:1943:LEU:HA	2:E:1946:PHE:CD2	2.55	0.41
2:E:2768:PHE:HB2	2:E:2857:PRO:HD2	2.00	0.41
2:E:3187:ARG:NH1	2:E:3267:PRO:HB2	2.35	0.41
2:E:3335:MET:CB	2:E:3403:ARG:HD2	2.50	0.41
2:E:4779:LYS:HB2	2:E:4779:LYS:HE3	1.88	0.41
2:E:4851:TYR:HA	2:E:4854:VAL:HG22	2.01	0.41
2:G:449:ILE:O	2:G:453:GLU:HG3	2.21	0.41
2:G:1248:VAL:HG22	2:G:1599:MET:HE3	2.01	0.41
2:G:2110:TYR:HB2	2:G:3695:PRO:HD2	2.02	0.41
2:G:2126:ARG:NH2	2:G:2133:GLU:OE2	2.48	0.41
2:G:2737:PRO:HB2	2:G:2884:ASN:O	2.20	0.41
2:G:3335:MET:CB	2:G:3403:ARG:HD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3592:ILE:HG12	2:G:3595:ARG:NH2	2.34	0.41
2:G:4162:ASN:O	2:G:4166:LEU:HG	2.20	0.41
2:G:4899:ASP:OD1	2:G:4899:ASP:N	2.54	0.41
2:G:4998:LYS:HB2	2:G:4998:LYS:HE3	1.82	0.41
2:J:733:PRO:HB2	2:J:762:CYS:SG	2.60	0.41
2:J:1100:MET:CE	2:J:1192:CYS:HB2	2.50	0.41
2:J:1435:TYR:HE1	2:J:1452:TRP:CZ2	2.38	0.41
2:J:2251:PHE:CE1	2:J:2254:LEU:HD22	2.54	0.41
2:J:2445:ALA:HB1	2:J:2447:LYS:HE2	2.02	0.41
2:J:3579:LEU:HD23	2:J:3582:ARG:HA	2.02	0.41
2:J:4097:MET:HE3	2:J:4108:ILE:HA	2.02	0.41
3:C:34:MET:HE1	3:C:95:CYS:SG	2.60	0.41
3:C:51:ILE:C	3:C:71:ARG:HH21	2.19	0.41
1:D:7:ILE:O	2:E:736:HIS:HA	2.20	0.41
1:I:57:LYS:HD2	1:I:80:VAL:HG12	2.03	0.41
2:B:210:GLU:HG2	2:B:273:HIS:CD2	2.55	0.41
2:B:472:ARG:HA	2:B:472:ARG:HD3	1.93	0.41
2:B:472:ARG:NH1	2:B:475:GLN:OE1	2.53	0.41
2:B:487:VAL:O	2:B:491:ILE:HG13	2.20	0.41
2:B:1175:SER:HB2	2:B:1180:ARG:NH2	2.36	0.41
2:B:1500:PHE:HE1	2:B:1536:SER:HG	1.68	0.41
2:B:1561:VAL:HG13	2:B:1562:ILE:N	2.35	0.41
2:B:2611:CYS:SG	2:B:2643:LEU:HD11	2.61	0.41
2:B:2700:MET:CE	2:B:3004:PRO:HB2	2.50	0.41
2:B:2878:LEU:HG	2:B:2882:TYR:CZ	2.54	0.41
2:B:4150:LEU:O	2:B:4154:VAL:HG12	2.19	0.41
2:B:4204:GLN:NE2	2:B:4248:ALA:HB3	2.35	0.41
2:E:16:THR:HG23	2:E:99:ARG:O	2.21	0.41
2:E:487:VAL:O	2:E:491:ILE:HG13	2.20	0.41
2:E:548:VAL:HA	2:E:551:LEU:HG	2.02	0.41
2:E:2110:TYR:HB2	2:E:3695:PRO:HD2	2.02	0.41
2:E:2374:SER:OG	2:E:2375:GLY:N	2.53	0.41
2:E:2537:ASP:OD2	2:E:2592:GLY:HA3	2.21	0.41
2:E:2621:HIS:HA	2:E:2624:ARG:HD3	2.01	0.41
2:E:4147:LEU:HD22	2:E:4167:ALA:HB3	2.02	0.41
2:E:4154:VAL:HG13	2:E:4154:VAL:O	2.20	0.41
2:G:363:ASP:HA	2:G:364:PRO:HD2	1.96	0.41
2:G:1175:SER:HB2	2:G:1180:ARG:NH2	2.35	0.41
2:G:2351:ASN:O	2:G:2355:ARG:HD3	2.20	0.41
2:G:2694:GLU:OE2	2:G:2697:ARG:NH2	2.52	0.41
2:G:2906:VAL:HG23	2:G:2911:LEU:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3400:VAL:HG23	2:G:3403:ARG:HE	1.86	0.41
2:J:472:ARG:NH1	2:J:475:GLN:OE1	2.53	0.41
2:J:480:GLU:OE2	2:J:481:GLU:HG2	2.19	0.41
2:J:728:ARG:NH2	2:J:1489:CYS:SG	2.93	0.41
2:J:766:GLY:HA3	2:J:1476:MET:HE1	2.02	0.41
2:J:1071:ARG:HA	2:J:1071:ARG:HD3	1.83	0.41
2:J:1561:VAL:HG13	2:J:1562:ILE:N	2.35	0.41
2:J:2977:LEU:HA	2:J:2980:VAL:HG22	2.02	0.41
2:J:2996:LYS:HD3	2:J:2996:LYS:HA	1.84	0.41
2:J:3805:LEU:HD23	2:J:3812:VAL:HG23	2.03	0.41
2:B:16:THR:HG23	2:B:99:ARG:O	2.20	0.41
2:B:1043:VAL:O	2:B:1047:LEU:HG	2.21	0.41
2:B:1066:GLN:HA	2:B:1069:TRP:CH2	2.55	0.41
2:B:1293:LEU:HD11	2:B:1594:ARG:HG2	2.01	0.41
2:B:1466:LEU:HD12	2:B:1466:LEU:HA	1.94	0.41
2:B:2230:THR:O	2:B:2234:ARG:HG3	2.20	0.41
2:B:2263:ILE:O	2:B:2267:MET:HG2	2.20	0.41
2:B:2456:ILE:O	2:B:2460:LEU:HD23	2.20	0.41
2:B:2906:VAL:HG23	2:B:2911:LEU:HB3	2.02	0.41
2:B:3427:PRO:HG3	2:B:3579:LEU:HD21	2.02	0.41
2:B:4062:PHE:CZ	2:B:4139:ILE:HG23	2.54	0.41
2:B:4181:ILE:HG13	2:B:4182:GLU:H	1.84	0.41
2:B:4197:ILE:HG21	2:B:4202:ARG:HH11	1.85	0.41
2:B:4584:ASP:HA	2:B:4628:VAL:HA	2.01	0.41
2:E:1043:VAL:HA	2:E:1046:LEU:HG	2.03	0.41
2:E:1043:VAL:O	2:E:1047:LEU:HG	2.21	0.41
2:E:1175:SER:HB2	2:E:1180:ARG:NH2	2.35	0.41
2:E:2445:ALA:HB1	2:E:2447:LYS:HE2	2.02	0.41
2:E:2978:GLU:HA	2:E:2981:VAL:HG12	2.02	0.41
2:E:3413:ILE:HA	2:E:3516:LYS:HZ1	1.85	0.41
2:E:4062:PHE:CZ	2:E:4139:ILE:HG23	2.54	0.41
2:E:4087:LEU:HB3	2:E:4122:MET:SD	2.60	0.41
2:E:4958:CYS:N	2:E:4975:PHE:HE1	2.19	0.41
2:G:472:ARG:NH1	2:G:475:GLN:OE1	2.53	0.41
2:G:839:LEU:HD13	2:G:1075:PHE:CG	2.56	0.41
2:G:1435:TYR:HE1	2:G:1452:TRP:CZ2	2.38	0.41
2:G:2445:ALA:HB1	2:G:2447:LYS:HE2	2.02	0.41
2:G:2694:GLU:CD	2:G:2697:ARG:HH21	2.22	0.41
2:G:3144:PHE:CE2	2:G:3197:LEU:HB3	2.54	0.41
2:G:3593:VAL:HG23	2:G:3594:ARG:HE	1.85	0.41
2:G:3805:LEU:HD23	2:G:3812:VAL:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:4661:TYR:HA	2:G:4664:LEU:HD23	2.01	0.41
2:J:872:GLU:O	2:J:876:GLU:HG2	2.21	0.41
2:J:1128:ARG:HH21	2:J:1132:TRP:HZ2	1.67	0.41
2:J:2251:PHE:CG	2:J:2286:LEU:HD22	2.56	0.41
2:J:3335:MET:CB	2:J:3403:ARG:HD2	2.50	0.41
2:J:5012:LYS:O	2:J:5016:GLU:HG2	2.19	0.41
1:A:57:LYS:HD2	1:A:80:VAL:HG12	2.03	0.41
1:D:55:VAL:HG13	1:D:60:GLU:HB2	2.02	0.41
1:D:57:LYS:HD2	1:D:80:VAL:HG12	2.03	0.41
2:B:277:GLY:N	2:B:316:PHE:O	2.44	0.41
2:B:358:THR:HG21	2:B:382:GLY:HA2	2.03	0.41
2:B:733:PRO:HB2	2:B:762:CYS:SG	2.60	0.41
2:B:1439:VAL:HB	2:B:1514:LEU:HB2	2.01	0.41
2:B:1963:GLU:HA	2:B:1966:VAL:HG12	2.02	0.41
2:B:1965:TYR:O	2:B:1969:LEU:HD23	2.20	0.41
2:B:2336:ARG:HB2	2:B:2435:ARG:CD	2.45	0.41
2:B:2357:LEU:HD13	2:B:2364:PHE:HZ	1.84	0.41
2:B:3843:ASP:HB3	2:B:3846:ALA:HB3	2.02	0.41
2:E:839:LEU:HD13	2:E:1075:PHE:CG	2.56	0.41
2:E:891:TRP:HA	2:E:902:ARG:HB3	2.01	0.41
2:E:3427:PRO:HG3	2:E:3579:LEU:HD21	2.02	0.41
2:E:4181:ILE:HG13	2:E:4182:GLU:H	1.84	0.41
2:G:16:THR:HG23	2:G:99:ARG:O	2.21	0.41
2:G:657:THR:O	2:G:1007:TYR:N	2.54	0.41
2:G:1067:SER:HA	2:G:1070:ASP:HB2	2.03	0.41
2:G:1122:TYR:HE1	2:G:1133:HIS:CD2	2.39	0.41
2:G:1561:VAL:HG13	2:G:1562:ILE:N	2.36	0.41
2:G:1816:GLY:HA2	2:G:1865:MET:CE	2.50	0.41
2:G:1943:LEU:HA	2:G:1946:PHE:CD2	2.56	0.41
2:G:1978:ALA:O	2:G:1981:MET:HG2	2.20	0.41
2:G:2336:ARG:HB2	2:G:2435:ARG:CD	2.45	0.41
2:G:4888:TYR:OH	2:J:4913:ARG:NH2	2.53	0.41
2:G:4945:ASP:HB3	2:G:4949:GLN:HE22	1.86	0.41
2:J:308:HIS:O	2:J:312:THR:OG1	2.25	0.41
2:J:1147:ASP:HB3	2:J:1164:LEU:HD11	2.02	0.41
2:J:1175:SER:HB2	2:J:1180:ARG:NH2	2.35	0.41
2:J:1248:VAL:HG22	2:J:1599:MET:HE3	2.03	0.41
2:J:1496:TRP:CZ2	2:J:1498:GLY:HA3	2.55	0.41
2:J:1639:LEU:HD23	2:J:1653:LEU:HD11	2.02	0.41
2:J:2357:LEU:HD13	2:J:2364:PHE:HZ	1.84	0.41
2:J:2426:TYR:O	2:J:2430:ILE:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:4204:GLN:NE2	2:J:4248:ALA:HB3	2.35	0.41
3:F:105:ASN:ND2	3:F:108:GLY:O	2.54	0.41
2:B:657:THR:O	2:B:1007:TYR:N	2.54	0.41
2:B:664:PHE:HA	2:B:800:PHE:HE1	1.85	0.41
2:B:744:VAL:HG22	2:B:759:ILE:HD12	2.02	0.41
2:B:872:GLU:O	2:B:876:GLU:HG2	2.21	0.41
2:E:548:VAL:HG21	2:E:582:HIS:HD2	1.86	0.41
2:E:664:PHE:HA	2:E:800:PHE:HE1	1.85	0.41
2:E:1496:TRP:CZ2	2:E:1498:GLY:HA3	2.55	0.41
2:E:1561:VAL:HG13	2:E:1562:ILE:N	2.35	0.41
2:E:2456:ILE:O	2:E:2460:LEU:HD23	2.20	0.41
2:E:3892:CYS:O	2:E:3970:GLN:NE2	2.54	0.41
2:E:3986:TRP:CZ3	2:E:3989:VAL:HG11	2.56	0.41
2:E:4197:ILE:HG21	2:E:4202:ARG:HH11	1.85	0.41
2:G:1698:LEU:HG	2:G:1712:TYR:CE1	2.55	0.41
2:G:3427:PRO:HG3	2:G:3579:LEU:HD21	2.02	0.41
2:G:4580:TYR:HB2	2:J:4879:MET:HE1	2.02	0.41
2:J:223:PHE:CD2	2:J:230:CYS:HB3	2.55	0.41
2:J:646:PRO:O	2:J:821:LEU:HD11	2.21	0.41
2:J:839:LEU:HD13	2:J:1075:PHE:CG	2.56	0.41
2:J:2431:ASP:O	2:J:2435:ARG:HG2	2.20	0.41
2:J:4088:ILE:HG23	2:J:4123:ILE:HB	2.03	0.41
3:F:107:TRP:HE3	3:F:111:ASN:HD21	1.68	0.41
3:K:14:ALA:HA	3:K:85:LEU:HB2	2.02	0.41
2:B:248:GLU:HB2	2:B:373:LYS:CD	2.37	0.41
2:B:341:TYR:HE2	2:B:392:ARG:HB2	1.85	0.41
2:B:615:ARG:HH12	2:B:1676:LEU:HB2	1.86	0.41
2:B:849:THR:O	2:B:852:VAL:HG22	2.20	0.41
2:B:1100:MET:CE	2:B:1192:CYS:HB2	2.50	0.41
2:B:2333:ASP:HA	2:B:2336:ARG:NE	2.36	0.41
2:B:2537:ASP:OD2	2:B:2592:GLY:HA3	2.21	0.41
2:B:3032:SER:HB2	2:B:3035:GLU:HG3	2.03	0.41
2:B:3986:TRP:CZ3	2:B:3989:VAL:HG11	2.56	0.41
2:E:872:GLU:O	2:E:876:GLU:HG2	2.21	0.41
2:E:1128:ARG:HH21	2:E:1132:TRP:HZ2	1.67	0.41
2:E:1154:ASP:HB2	2:E:1159:THR:H	1.86	0.41
2:E:1272:LEU:HD22	2:E:1289:LEU:HD11	2.03	0.41
2:E:2251:PHE:CG	2:E:2286:LEU:HD22	2.56	0.41
2:E:2680:TRP:CZ3	2:E:2962:GLN:HG3	2.54	0.41
2:E:2911:LEU:HD13	2:E:2915:GLU:HG3	2.02	0.41
2:E:3051:ARG:HA	2:E:3131:TYR:OH	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:3754:GLU:O	2:E:3758:MET:HG2	2.19	0.41
2:E:3962:PHE:HA	2:E:3965:LEU:HD12	2.01	0.41
2:E:4162:ASN:O	2:E:4166:LEU:HG	2.20	0.41
2:E:4181:ILE:HD11	2:E:4988:TYR:CD2	2.55	0.41
2:E:4880:MET:SD	2:E:4881:THR:N	2.94	0.41
2:E:4913:ARG:NH2	2:J:4888:TYR:OH	2.53	0.41
2:G:299:LEU:HD11	2:G:376:ALA:HB3	2.02	0.41
2:G:1043:VAL:O	2:G:1047:LEU:HG	2.21	0.41
2:G:1965:TYR:O	2:G:1969:LEU:HD23	2.20	0.41
2:G:2431:ASP:O	2:G:2435:ARG:HG2	2.20	0.41
2:G:2755:ILE:HD12	2:G:2813:LEU:HG	2.02	0.41
2:G:3252:ASP:O	2:G:3256:LEU:HG	2.19	0.41
2:G:3302:PRO:HA	2:G:3303:PRO:HD3	1.94	0.41
2:G:3567:PRO:O	2:G:3570:ARG:HB3	2.21	0.41
2:J:210:GLU:HG2	2:J:273:HIS:CD2	2.55	0.41
2:J:220:LEU:HD12	2:J:390:LEU:HB3	2.03	0.41
2:J:1653:LEU:HD23	2:J:1660:GLN:HB2	2.03	0.41
2:J:1771:LEU:HD12	2:J:2144:ILE:HD11	2.02	0.41
2:J:2333:ASP:HA	2:J:2336:ARG:NE	2.36	0.41
2:J:2456:ILE:O	2:J:2460:LEU:HD23	2.20	0.41
2:J:2655:TYR:HB2	2:J:2709:ALA:O	2.21	0.41
2:J:2962:GLN:OE1	2:J:2965:ARG:HD3	2.20	0.41
2:J:3051:ARG:HA	2:J:3131:TYR:OH	2.21	0.41
2:J:3315:LEU:HD22	2:J:3345:ILE:HG12	2.02	0.41
2:J:4548:ARG:O	2:J:4552:LEU:HG	2.21	0.41
3:M:14:ALA:HA	3:M:85:LEU:HB2	2.02	0.41
1:I:15:PHE:HA	1:I:16:PRO:HD3	1.95	0.41
2:B:223:PHE:CD2	2:B:230:CYS:HB3	2.55	0.41
2:B:372:LEU:O	2:B:374:LYS:HG3	2.21	0.41
2:B:870:ILE:O	2:B:874:LEU:HG	2.20	0.41
2:B:1639:LEU:HD23	2:B:1653:LEU:HD11	2.03	0.41
2:B:1653:LEU:HD23	2:B:1660:GLN:HB2	2.03	0.41
2:B:2655:TYR:HB2	2:B:2709:ALA:O	2.21	0.41
2:B:2962:GLN:HA	2:B:2965:ARG:HG2	2.03	0.41
2:B:3392:LEU:HA	2:B:3395:ARG:HD2	2.02	0.41
2:B:3400:VAL:HG23	2:B:3403:ARG:HE	1.85	0.41
2:B:3428:ASN:ND2	2:B:3430:ASN:HB2	2.36	0.41
2:B:3713:LYS:NZ	2:B:3716:LEU:HD12	2.35	0.41
2:B:3805:LEU:HD23	2:B:3812:VAL:HG23	2.03	0.41
2:B:4880:MET:SD	2:B:4881:THR:N	2.94	0.41
2:E:43:GLY:H	2:E:443:LEU:HD23	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:615:ARG:HH12	2:E:1676:LEU:HB2	1.86	0.41
2:E:646:PRO:O	2:E:821:LEU:HD11	2.21	0.41
2:E:1067:SER:HA	2:E:1070:ASP:HB2	2.03	0.41
2:E:1247:PRO:HA	2:E:1598:GLN:HA	2.03	0.41
2:E:1443:GLN:HG2	2:E:1561:VAL:HG23	2.03	0.41
2:E:1771:LEU:HD12	2:E:2144:ILE:HD11	2.02	0.41
2:E:1776:HIS:NE2	2:E:2157:GLU:OE2	2.46	0.41
2:E:1978:ALA:O	2:E:1981:MET:HG2	2.20	0.41
2:E:2655:TYR:HB2	2:E:2709:ALA:O	2.21	0.41
2:E:2673:HIS:NE2	2:E:2677:LYS:HE2	2.36	0.41
2:E:2858:GLN:HB2	2:E:2859:PRO:HD3	2.02	0.41
2:E:2962:GLN:OE1	2:E:2965:ARG:HD3	2.20	0.41
2:E:3553:LEU:HD23	2:E:3593:VAL:HA	2.01	0.41
2:E:3674:ILE:HD13	2:E:3674:ILE:HA	1.95	0.41
2:E:3843:ASP:HB3	2:E:3846:ALA:HB3	2.02	0.41
2:E:3951:PHE:O	2:E:3955:MET:HE2	2.21	0.41
2:G:733:PRO:HB2	2:G:762:CYS:SG	2.60	0.41
2:G:2700:MET:CE	2:G:3004:PRO:HB2	2.50	0.41
2:G:3032:SER:HB2	2:G:3035:GLU:HG3	2.03	0.41
2:G:3051:ARG:HA	2:G:3131:TYR:OH	2.21	0.41
2:G:3428:ASN:ND2	2:G:3430:ASN:HB2	2.36	0.41
2:G:3579:LEU:HD23	2:G:3582:ARG:HA	2.02	0.41
2:G:4204:GLN:NE2	2:G:4248:ALA:HB3	2.35	0.41
2:G:5012:LYS:O	2:G:5016:GLU:HG2	2.19	0.41
2:J:595:ARG:HH22	2:J:1641:ILE:HG23	1.85	0.41
2:J:870:ILE:O	2:J:874:LEU:HG	2.20	0.41
2:J:1066:GLN:HA	2:J:1069:TRP:CH2	2.55	0.41
2:J:1157:GLU:O	2:J:1159:THR:HG23	2.20	0.41
2:J:1423:ASP:OD2	2:J:1425:GLU:HG2	2.20	0.41
2:J:1443:GLN:HG2	2:J:1561:VAL:HG23	2.03	0.41
2:J:2223:ILE:HD12	2:J:2223:ILE:HA	1.94	0.41
2:J:2374:SER:OG	2:J:2375:GLY:N	2.53	0.41
2:J:2537:ASP:OD2	2:J:2592:GLY:HA3	2.21	0.41
2:J:2611:CYS:SG	2:J:2643:LEU:HD11	2.60	0.41
2:J:3593:VAL:HG23	2:J:3594:ARG:HE	1.85	0.41
2:J:4087:LEU:HB3	2:J:4122:MET:SD	2.61	0.41
2:J:4181:ILE:HD11	2:J:4988:TYR:CD2	2.55	0.41
2:J:4945:ASP:HB3	2:J:4949:GLN:HE22	1.86	0.41
3:K:85:LEU:HD23	3:K:85:LEU:HA	1.90	0.41
1:I:40:ARG:H	1:I:40:ARG:HG2	1.73	0.41
2:B:449:ILE:O	2:B:453:GLU:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:687:ALA:HB2	2:B:780:VAL:HG11	2.03	0.41
2:B:1302:ARG:H	2:B:1302:ARG:HG2	1.68	0.41
2:B:1435:TYR:HE1	2:B:1452:TRP:CZ2	2.38	0.41
2:B:2001:PRO:HA	2:B:2002:PRO:HD3	1.99	0.41
2:B:2251:PHE:CG	2:B:2286:LEU:HD22	2.56	0.41
2:B:2737:PRO:HB2	2:B:2884:ASN:O	2.20	0.41
2:B:2911:LEU:HD13	2:B:2915:GLU:HG3	2.02	0.41
2:B:3315:LEU:HD22	2:B:3345:ILE:HG12	2.02	0.41
2:B:3335:MET:CB	2:B:3403:ARG:HD2	2.50	0.41
2:B:3352:GLU:HA	2:B:3355:HIS:NE2	2.36	0.41
2:B:3379:LEU:HD12	2:B:3387:ALA:HA	2.02	0.41
2:B:3390:GLY:O	2:B:3394:VAL:HG13	2.20	0.41
2:B:3413:ILE:HG12	2:B:3516:LYS:HZ1	1.86	0.41
2:B:3892:CYS:O	2:B:3970:GLN:NE2	2.53	0.41
2:B:4049:VAL:HG12	2:B:4163:PHE:CE2	2.56	0.41
2:E:220:LEU:HD12	2:E:390:LEU:HB3	2.03	0.41
2:E:284:HIS:HE1	2:E:286:THR:HB	1.84	0.41
2:E:592:LYS:HE2	2:E:592:LYS:HB3	1.92	0.41
2:E:595:ARG:HH22	2:E:1641:ILE:HG23	1.85	0.41
2:E:870:ILE:O	2:E:874:LEU:HG	2.20	0.41
2:E:1083:VAL:HG23	2:E:1155:LEU:HD11	2.01	0.41
2:E:1100:MET:CE	2:E:1192:CYS:HB2	2.50	0.41
2:E:1157:GLU:O	2:E:1159:THR:HG23	2.20	0.41
2:E:1439:VAL:HB	2:E:1514:LEU:HB2	2.01	0.41
2:E:1670:TYR:HA	2:E:1673:VAL:HG22	2.01	0.41
2:E:1963:GLU:HA	2:E:1966:VAL:HG12	2.02	0.41
2:E:2333:ASP:HA	2:E:2336:ARG:NE	2.36	0.41
2:E:3137:LEU:HB3	2:E:3138:PRO:HD3	2.03	0.41
2:E:3871:GLY:O	2:E:3949:ARG:NH2	2.54	0.41
2:E:4548:ARG:O	2:E:4552:LEU:HG	2.21	0.41
2:G:223:PHE:CD2	2:G:230:CYS:HB3	2.55	0.41
2:G:424:LYS:HE2	2:G:424:LYS:HB2	1.90	0.41
2:G:531:ARG:NH2	2:G:562:GLU:OE2	2.50	0.41
2:G:728:ARG:NH2	2:G:1489:CYS:SG	2.93	0.41
2:G:891:TRP:HA	2:G:902:ARG:HB3	2.01	0.41
2:G:996:TRP:HZ2	3:M:113:GLU:HG3	1.86	0.41
2:G:1093:GLU:HB2	2:G:1148:VAL:HG12	2.03	0.41
2:G:1547:LYS:NZ	2:G:1642:PRO:O	2.54	0.41
2:G:2263:ILE:O	2:G:2267:MET:HG2	2.20	0.41
2:G:2655:TYR:HB2	2:G:2709:ALA:O	2.21	0.41
2:G:2888:ARG:HH11	2:G:2891:LYS:HZ1	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:3137:LEU:HB3	2:G:3138:PRO:HD3	2.02	0.41
2:G:3202:PRO:HA	2:G:3283:ARG:NH2	2.36	0.41
2:G:3379:LEU:HD12	2:G:3387:ALA:HA	2.02	0.41
2:G:3392:LEU:HA	2:G:3395:ARG:HD2	2.02	0.41
2:G:3713:LYS:NZ	2:G:3716:LEU:HD12	2.35	0.41
2:G:3871:GLY:O	2:G:3949:ARG:NH2	2.54	0.41
2:G:3992:PHE:O	2:G:3996:PHE:HD1	2.04	0.41
2:G:4049:VAL:HG12	2:G:4163:PHE:CE2	2.56	0.41
2:G:4779:LYS:HB2	2:G:4779:LYS:HE3	1.88	0.41
2:G:4904:PRO:HG3	2:G:4913:ARG:HE	1.85	0.41
2:J:16:THR:HG23	2:J:99:ARG:O	2.20	0.41
2:J:664:PHE:HA	2:J:800:PHE:HE1	1.85	0.41
2:J:744:VAL:HG22	2:J:759:ILE:HD12	2.03	0.41
2:J:1067:SER:HA	2:J:1070:ASP:HB2	2.03	0.41
2:J:1154:ASP:HB2	2:J:1159:THR:H	1.86	0.41
2:J:1670:TYR:HA	2:J:1673:VAL:HG22	2.01	0.41
2:J:1808:ARG:HD2	2:J:1858:ASP:OD2	2.21	0.41
2:J:1943:LEU:HA	2:J:1946:PHE:CD2	2.56	0.41
2:J:1963:GLU:HA	2:J:1966:VAL:HG12	2.02	0.41
2:J:2096:GLU:HB3	2:J:2100:HIS:CE1	2.56	0.41
2:J:2230:THR:O	2:J:2234:ARG:HG3	2.20	0.41
2:J:3706:SER:OG	2:J:3778:MET:HB3	2.21	0.41
2:J:3871:GLY:O	2:J:3949:ARG:NH2	2.54	0.41
2:J:3986:TRP:CZ3	2:J:3989:VAL:HG11	2.56	0.41
2:J:4162:ASN:O	2:J:4166:LEU:HG	2.20	0.41
2:J:4851:TYR:HA	2:J:4854:VAL:HG22	2.01	0.41
2:J:4958:CYS:N	2:J:4975:PHE:HE1	2.19	0.41
3:K:81:GLN:HB3	3:K:81:GLN:HE21	1.73	0.41
2:B:646:PRO:O	2:B:821:LEU:HD11	2.21	0.41
2:B:839:LEU:HD13	2:B:1075:PHE:CG	2.56	0.41
2:B:1423:ASP:OD2	2:B:1425:GLU:HG2	2.20	0.41
2:B:1443:GLN:HG2	2:B:1561:VAL:HG23	2.03	0.41
2:B:2096:GLU:HB3	2:B:2100:HIS:CE1	2.56	0.41
2:B:2681:GLY:HA2	2:B:2684:ASP:OD2	2.21	0.41
2:B:2858:GLN:HB2	2:B:2859:PRO:HD3	2.02	0.41
2:B:3137:LEU:HB3	2:B:3138:PRO:HD3	2.02	0.41
2:B:4899:ASP:N	2:B:4899:ASP:OD1	2.54	0.41
2:E:657:THR:O	2:E:1007:TYR:N	2.54	0.41
2:E:2755:ILE:HD12	2:E:2813:LEU:HG	2.02	0.41
2:E:3593:VAL:HG23	2:E:3594:ARG:HE	1.85	0.41
2:E:3845:ASN:OD1	2:E:3846:ALA:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:3986:TRP:CD1	2:E:4047:MET:HB3	2.56	0.41
2:G:56:GLN:O	2:G:308:HIS:HA	2.21	0.41
2:G:1115:LEU:HB3	2:G:1123:VAL:HG11	2.03	0.41
2:G:1154:ASP:HB2	2:G:1159:THR:H	1.86	0.41
2:G:2096:GLU:HB3	2:G:2100:HIS:CE1	2.56	0.41
2:G:2230:THR:O	2:G:2234:ARG:HG3	2.20	0.41
2:G:2962:GLN:HA	2:G:2965:ARG:HG2	2.03	0.41
2:G:2962:GLN:OE1	2:G:2965:ARG:HD3	2.20	0.41
2:G:3843:ASP:HB3	2:G:3846:ALA:HB3	2.02	0.41
2:G:4548:ARG:O	2:G:4552:LEU:HG	2.21	0.41
2:G:4880:MET:SD	2:G:4881:THR:N	2.94	0.41
2:J:117:TYR:N	2:J:138:GLN:O	2.52	0.41
2:J:615:ARG:HH12	2:J:1676:LEU:HB2	1.86	0.41
2:J:891:TRP:HA	2:J:902:ARG:HB3	2.01	0.41
2:J:996:TRP:HZ2	3:K:113:GLU:HG3	1.86	0.41
2:J:1432:THR:OG1	2:J:1519:LEU:HG	2.20	0.41
2:J:1730:MET:HE2	2:J:1772:ARG:HD2	2.03	0.41
2:J:1978:ALA:O	2:J:1981:MET:HG2	2.20	0.41
2:J:2737:PRO:HB2	2:J:2884:ASN:O	2.20	0.41
2:J:2768:PHE:HA	2:J:2771:ILE:HG22	2.03	0.41
2:J:3023:LYS:HZ3	2:J:3025:LEU:HB2	1.85	0.41
2:J:3427:PRO:HG3	2:J:3579:LEU:HD21	2.02	0.41
2:J:3567:PRO:O	2:J:3570:ARG:HB3	2.21	0.41
2:J:3754:GLU:O	2:J:3758:MET:HG2	2.19	0.41
2:J:3986:TRP:CD1	2:J:4047:MET:HB3	2.56	0.41
2:J:4898:GLY:HA2	2:J:4913:ARG:HH12	1.86	0.41
2:J:4994:TYR:O	2:J:4998:LYS:HG2	2.20	0.41
3:C:22:CYS:O	3:C:77:THR:HA	2.21	0.41
3:C:57:ILE:HD12	3:C:57:ILE:HA	1.93	0.41
3:F:30:SER:HB3	3:F:99:ARG:HB3	2.03	0.41
3:F:57:ILE:HD12	3:F:57:ILE:HA	1.93	0.41
3:K:22:CYS:O	3:K:77:THR:HA	2.21	0.41
3:K:105:ASN:ND2	3:K:108:GLY:O	2.54	0.41
3:M:39:GLN:HB3	3:M:94:TYR:HE2	1.86	0.41
1:H:57:LYS:HD2	1:H:80:VAL:HG12	2.03	0.40
1:I:55:VAL:HG13	1:I:60:GLU:HB2	2.02	0.40
2:B:56:GLN:O	2:B:308:HIS:HA	2.21	0.40
2:B:179:TYR:CD2	2:B:197:GLN:HB3	2.56	0.40
2:B:375:LYS:HE2	2:B:375:LYS:HB2	1.95	0.40
2:B:871:ARG:NH1	2:B:922:LEU:HB3	2.36	0.40
2:B:1104:TRP:CZ2	2:B:1153:ILE:HB	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1128:ARG:HH21	2:B:1132:TRP:HZ2	1.67	0.40
2:B:2163:ARG:HA	2:B:2166:LEU:HG	2.03	0.40
2:B:2810:LYS:HB3	2:B:2814:LYS:NZ	2.37	0.40
2:B:2978:GLU:HA	2:B:2981:VAL:HG12	2.02	0.40
2:B:2996:LYS:HA	2:B:2996:LYS:HD3	1.84	0.40
2:B:3337:ARG:O	2:B:3340:VAL:HB	2.22	0.40
2:B:3713:LYS:HZ1	2:B:3717:ASP:H	1.69	0.40
2:B:3833:GLN:O	2:B:3836:MET:HG3	2.22	0.40
2:B:4087:LEU:HB3	2:B:4122:MET:SD	2.61	0.40
2:B:4162:ASN:O	2:B:4166:LEU:HG	2.20	0.40
2:E:320:LYS:HE2	2:E:347:PHE:CE2	2.56	0.40
2:E:358:THR:HG21	2:E:382:GLY:HA2	2.03	0.40
2:E:897:ARG:HH12	3:F:104:TYR:HB3	1.86	0.40
2:E:937:CYS:HB3	2:E:1053:ILE:CB	2.51	0.40
2:E:2096:GLU:HB3	2:E:2100:HIS:CE1	2.56	0.40
2:E:3713:LYS:NZ	2:E:3717:ASP:OD1	2.52	0.40
2:E:3962:PHE:CD1	2:E:3965:LEU:HD12	2.56	0.40
2:E:4041:ALA:O	2:E:4045:VAL:HG23	2.22	0.40
2:E:4097:MET:HE3	2:E:4108:ILE:HA	2.03	0.40
2:G:341:TYR:HE2	2:G:392:ARG:HB2	1.85	0.40
2:G:646:PRO:O	2:G:821:LEU:HD11	2.21	0.40
2:G:870:ILE:O	2:G:874:LEU:HG	2.20	0.40
2:G:1443:GLN:HG2	2:G:1561:VAL:HG23	2.03	0.40
2:G:1808:ARG:HD2	2:G:1858:ASP:OD2	2.21	0.40
2:G:1828:ASP:OD1	2:G:1828:ASP:N	2.54	0.40
2:G:3021:PRO:HG3	2:G:3036:LYS:HZ1	1.86	0.40
2:G:3390:GLY:O	2:G:3394:VAL:HG13	2.20	0.40
2:G:3962:PHE:CD1	2:G:3965:LEU:HD12	2.56	0.40
2:G:4023:MET:N	2:G:4023:MET:HE2	2.37	0.40
2:G:4087:LEU:HB3	2:G:4122:MET:SD	2.61	0.40
2:J:103:TYR:HA	2:J:150:MET:HG3	2.03	0.40
2:J:1115:LEU:HB3	2:J:1123:VAL:HG11	2.03	0.40
2:J:1122:TYR:HE1	2:J:1133:HIS:CD2	2.39	0.40
2:J:2673:HIS:NE2	2:J:2677:LYS:HE2	2.36	0.40
2:J:2700:MET:CE	2:J:3004:PRO:HB2	2.50	0.40
2:J:2755:ILE:HD12	2:J:2813:LEU:HG	2.02	0.40
2:J:4904:PRO:HG3	2:J:4913:ARG:HE	1.85	0.40
3:C:39:GLN:HB3	3:C:94:TYR:HE2	1.86	0.40
3:M:39:GLN:OE1	3:M:45:ARG:HB2	2.21	0.40
2:B:162:LYS:HZ2	2:E:3984:ARG:HH12	1.66	0.40
2:B:220:LEU:HD12	2:B:390:LEU:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:667:MET:HE3	2:B:790:ARG:HE	1.85	0.40
2:B:1105:ALA:HB2	2:B:1191:VAL:HG11	2.04	0.40
2:B:3202:PRO:HA	2:B:3283:ARG:NH2	2.36	0.40
2:B:3567:PRO:O	2:B:3570:ARG:HB3	2.21	0.40
2:B:3579:LEU:HD23	2:B:3582:ARG:HA	2.02	0.40
2:E:210:GLU:HG2	2:E:273:HIS:CD2	2.55	0.40
2:E:1980:LEU:HD22	2:E:1998:PHE:CG	2.56	0.40
2:E:2611:CYS:SG	2:E:2643:LEU:HD11	2.61	0.40
2:E:3316:LEU:HB2	2:E:3345:ILE:HG23	2.03	0.40
2:E:3567:PRO:O	2:E:3570:ARG:HB3	2.21	0.40
2:E:3805:LEU:HD23	2:E:3812:VAL:HG23	2.03	0.40
2:E:4899:ASP:OD1	2:E:4899:ASP:N	2.54	0.40
2:E:4991:PHE:HE2	2:E:5010:VAL:HG11	1.86	0.40
2:G:181:HIS:HB2	2:G:196:MET:O	2.22	0.40
2:G:320:LYS:HE2	2:G:347:PHE:CE2	2.56	0.40
2:G:1043:VAL:HA	2:G:1046:LEU:HG	2.03	0.40
2:G:1147:ASP:HB3	2:G:1164:LEU:HD11	2.02	0.40
2:G:1247:PRO:HA	2:G:1598:GLN:HA	2.03	0.40
2:G:4041:ALA:O	2:G:4045:VAL:HG23	2.22	0.40
2:G:4851:TYR:HA	2:G:4854:VAL:HG22	2.01	0.40
2:J:56:GLN:O	2:J:308:HIS:HA	2.21	0.40
2:J:583:ILE:O	2:J:587:ILE:HG13	2.20	0.40
2:J:937:CYS:HB3	2:J:1053:ILE:CB	2.51	0.40
2:J:1104:TRP:CZ2	2:J:1153:ILE:HB	2.56	0.40
2:J:3428:ASN:ND2	2:J:3430:ASN:HB2	2.36	0.40
2:J:4059:LEU:HD13	2:J:4167:ALA:HB2	2.04	0.40
2:J:4880:MET:SD	2:J:4881:THR:N	2.94	0.40
3:F:39:GLN:HB3	3:F:94:TYR:HE2	1.86	0.40
3:F:90:THR:HG23	3:F:124:THR:HA	2.03	0.40
3:K:30:SER:HB3	3:K:99:ARG:HB3	2.03	0.40
3:K:39:GLN:HB3	3:K:94:TYR:HE2	1.86	0.40
1:D:56:ILE:HG13	1:D:59:PHE:H	1.87	0.40
1:H:55:VAL:HG13	1:H:60:GLU:HB2	2.02	0.40
2:B:43:GLY:H	2:B:443:LEU:HD23	1.86	0.40
2:B:647:ASN:ND2	2:B:822:ARG:HG2	2.35	0.40
2:B:1043:VAL:HA	2:B:1046:LEU:HG	2.03	0.40
2:B:1115:LEU:HB3	2:B:1123:VAL:HG11	2.03	0.40
2:B:1247:PRO:HA	2:B:1598:GLN:HA	2.03	0.40
2:B:1828:ASP:OD1	2:B:1828:ASP:N	2.54	0.40
2:B:3511:VAL:O	2:B:3515:LYS:HB3	2.22	0.40
2:B:3992:PHE:O	2:B:3996:PHE:HD1	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:4088:ILE:HG23	2:B:4123:ILE:HB	2.03	0.40
2:E:117:TYR:N	2:E:138:GLN:O	2.52	0.40
2:E:372:LEU:O	2:E:374:LYS:HG3	2.21	0.40
2:E:449:ILE:O	2:E:453:GLU:HG3	2.21	0.40
2:E:1432:THR:OG1	2:E:1519:LEU:HG	2.20	0.40
2:E:2426:TYR:O	2:E:2430:ILE:HG12	2.21	0.40
2:E:2681:GLY:HA2	2:E:2684:ASP:OD2	2.21	0.40
2:E:2962:GLN:HA	2:E:2965:ARG:HG2	2.03	0.40
2:E:3202:PRO:HA	2:E:3283:ARG:NH2	2.36	0.40
2:E:3352:GLU:HA	2:E:3355:HIS:NE2	2.36	0.40
2:E:3384:LYS:NZ	2:E:3386:GLU:HB3	2.36	0.40
2:E:3706:SER:OG	2:E:3778:MET:HB3	2.21	0.40
2:E:3833:GLN:O	2:E:3836:MET:HG3	2.22	0.40
2:E:4945:ASP:HB3	2:E:4949:GLN:HE22	1.86	0.40
2:G:544:LEU:HD21	2:G:578:ILE:HD13	2.04	0.40
2:G:647:ASN:ND2	2:G:822:ARG:HG2	2.35	0.40
2:G:872:GLU:O	2:G:876:GLU:HG2	2.21	0.40
2:G:1269:CYS:SG	2:G:1563:GLN:NE2	2.95	0.40
2:G:1272:LEU:HD22	2:G:1289:LEU:HD11	2.03	0.40
2:G:1639:LEU:HD23	2:G:1653:LEU:HD11	2.02	0.40
2:G:1683:HIS:NE2	2:G:1798:LEU:O	2.43	0.40
2:G:2113:SER:HB3	2:G:2116:LEU:HB3	2.04	0.40
2:G:2251:PHE:CG	2:G:2286:LEU:HD22	2.56	0.40
2:G:2333:ASP:HA	2:G:2336:ARG:NE	2.36	0.40
2:G:2550:LEU:O	2:G:2554:LEU:HG	2.22	0.40
2:G:2611:CYS:SG	2:G:2643:LEU:HD11	2.60	0.40
2:G:2858:GLN:HB2	2:G:2859:PRO:HD3	2.02	0.40
2:G:3845:ASN:OD1	2:G:3846:ALA:N	2.55	0.40
2:G:3916:ILE:O	2:G:3920:VAL:HG23	2.22	0.40
2:G:4898:GLY:HA2	2:G:4913:ARG:HH12	1.86	0.40
2:J:341:TYR:HE2	2:J:392:ARG:HB2	1.85	0.40
2:J:424:LYS:HB2	2:J:424:LYS:HE2	1.90	0.40
2:J:657:THR:O	2:J:1007:TYR:N	2.54	0.40
2:J:2110:TYR:HB2	2:J:3695:PRO:HD2	2.02	0.40
2:J:2113:SER:HB3	2:J:2116:LEU:HB3	2.04	0.40
2:J:3032:SER:HB2	2:J:3035:GLU:HG3	2.03	0.40
2:J:3316:LEU:HB2	2:J:3345:ILE:HG23	2.03	0.40
2:J:3336:LYS:O	2:J:3340:VAL:HG23	2.22	0.40
2:J:3400:VAL:HG23	2:J:3403:ARG:HE	1.86	0.40
2:J:3843:ASP:HB3	2:J:3846:ALA:HB3	2.02	0.40
2:J:3951:PHE:O	2:J:3955:MET:HE2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:4049:VAL:HG12	2:J:4163:PHE:CE2	2.56	0.40
3:C:30:SER:HB3	3:C:99:ARG:HB3	2.04	0.40
1:H:7:ILE:O	2:G:736:HIS:HA	2.22	0.40
1:H:7:ILE:HA	2:G:719:LEU:HD11	2.03	0.40
2:B:320:LYS:HE2	2:B:347:PHE:CE2	2.56	0.40
2:B:1272:LEU:HD22	2:B:1289:LEU:HD11	2.03	0.40
2:B:2469:ILE:HG13	2:B:2502:MET:HE3	2.03	0.40
2:B:3343:GLN:OE1	2:B:3414:ARG:NH1	2.55	0.40
2:B:3593:VAL:HG23	2:B:3594:ARG:HE	1.85	0.40
2:B:3845:ASN:OD1	2:B:3846:ALA:N	2.54	0.40
2:B:3871:GLY:O	2:B:3949:ARG:NH2	2.54	0.40
2:B:3996:PHE:HA	2:B:3999:MET:HG2	2.04	0.40
2:B:4904:PRO:HG3	2:B:4913:ARG:HE	1.85	0.40
2:E:150:MET:HB2	2:E:169:LEU:HD13	2.03	0.40
2:E:424:LYS:HB2	2:E:424:LYS:HE2	1.90	0.40
2:E:453:GLU:HA	2:E:454:PRO:HD3	1.97	0.40
2:E:1639:LEU:HD23	2:E:1653:LEU:HD11	2.02	0.40
2:E:1828:ASP:OD1	2:E:1828:ASP:N	2.54	0.40
2:E:2495:VAL:HG22	2:E:2498:HIS:CD2	2.57	0.40
2:E:3392:LEU:HA	2:E:3395:ARG:HD2	2.02	0.40
2:E:3992:PHE:O	2:E:3996:PHE:HD1	2.04	0.40
2:E:4013:LEU:O	2:E:4017:LEU:HG	2.21	0.40
2:E:4088:ILE:HG23	2:E:4123:ILE:HB	2.03	0.40
2:G:365:LYS:O	2:G:369:LEU:HG	2.21	0.40
2:G:687:ALA:HB2	2:G:780:VAL:HG11	2.03	0.40
2:G:744:VAL:HG22	2:G:759:ILE:HD12	2.02	0.40
2:G:1105:ALA:HB2	2:G:1191:VAL:HG11	2.04	0.40
2:G:1662:PHE:O	2:G:1666:THR:HG23	2.22	0.40
2:J:119:SER:N	2:J:136:GLY:O	2.48	0.40
2:J:179:TYR:CD2	2:J:197:GLN:HB3	2.56	0.40
2:J:449:ILE:O	2:J:453:GLU:HG3	2.21	0.40
2:J:1247:PRO:HA	2:J:1598:GLN:HA	2.03	0.40
2:J:2495:VAL:HG22	2:J:2498:HIS:CD2	2.56	0.40
2:J:2681:GLY:HA2	2:J:2684:ASP:OD2	2.21	0.40
2:J:3137:LEU:HB3	2:J:3138:PRO:HD3	2.02	0.40
2:J:3833:GLN:O	2:J:3836:MET:HG3	2.22	0.40
2:J:3895:HIS:H	2:J:3970:GLN:NE2	2.19	0.40
2:J:4991:PHE:HE2	2:J:5010:VAL:HG11	1.86	0.40
3:F:22:CYS:O	3:F:77:THR:HA	2.21	0.40
3:F:90:THR:HA	3:F:123:VAL:O	2.22	0.40
3:K:90:THR:HG23	3:K:124:THR:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1067:SER:HA	2:B:1070:ASP:HB2	2.03	0.40
2:B:1547:LYS:NZ	2:B:1642:PRO:O	2.54	0.40
2:B:2470:ILE:HD13	2:B:2526:PHE:HE1	1.87	0.40
2:B:2550:LEU:O	2:B:2554:LEU:HG	2.22	0.40
2:B:3051:ARG:HA	2:B:3131:TYR:OH	2.21	0.40
2:B:3384:LYS:NZ	2:B:3386:GLU:HB3	2.36	0.40
2:B:3951:PHE:O	2:B:3955:MET:HE2	2.21	0.40
2:B:4059:LEU:HD13	2:B:4167:ALA:HB2	2.04	0.40
2:E:531:ARG:NH2	2:E:562:GLU:OE2	2.50	0.40
2:E:996:TRP:CZ3	2:E:1021:LEU:HA	2.57	0.40
2:E:1093:GLU:HB2	2:E:1148:VAL:HG12	2.03	0.40
2:E:1422:ASP:OD1	2:E:1422:ASP:N	2.49	0.40
2:E:2583:LEU:HD13	2:E:2619:LEU:HD23	2.03	0.40
2:E:3032:SER:HB2	2:E:3035:GLU:HG3	2.03	0.40
2:E:3315:LEU:HD22	2:E:3345:ILE:HG12	2.03	0.40
2:E:3713:LYS:NZ	2:E:3716:LEU:HD12	2.35	0.40
2:E:3791:GLY:H	2:E:3794:VAL:HG12	1.87	0.40
2:E:4049:VAL:HG12	2:E:4163:PHE:CE2	2.56	0.40
2:E:4898:GLY:HA2	2:E:4913:ARG:HH12	1.86	0.40
2:E:4904:PRO:HD3	2:E:4913:ARG:NH2	2.28	0.40
2:G:103:TYR:HA	2:G:150:MET:HG3	2.03	0.40
2:G:179:TYR:CD2	2:G:197:GLN:HB3	2.56	0.40
2:G:220:LEU:HD12	2:G:390:LEU:HB3	2.03	0.40
2:G:552:ASP:OD1	2:G:592:LYS:NZ	2.46	0.40
2:G:3315:LEU:HD22	2:G:3345:ILE:HG12	2.02	0.40
2:G:3986:TRP:CD1	2:G:4047:MET:HB3	2.56	0.40
2:J:320:LYS:HE2	2:J:347:PHE:CE2	2.57	0.40
2:J:1043:VAL:HA	2:J:1046:LEU:HG	2.03	0.40
2:J:1547:LYS:NZ	2:J:1642:PRO:O	2.54	0.40
2:J:1662:PHE:O	2:J:1666:THR:HG23	2.22	0.40
2:J:2762:THR:HA	2:J:2765:LYS:NZ	2.37	0.40
2:J:3511:VAL:O	2:J:3515:LYS:HB3	2.22	0.40
2:J:3845:ASN:OD1	2:J:3846:ALA:N	2.54	0.40
2:J:3992:PHE:O	2:J:3996:PHE:HD1	2.04	0.40
2:J:3996:PHE:HA	2:J:3999:MET:HG2	2.04	0.40
2:J:4968:PHE:O	2:J:4974:GLY:HA3	2.22	0.40
3:C:39:GLN:OE1	3:C:45:ARG:HB2	2.22	0.40
3:M:90:THR:HA	3:M:123:VAL:O	2.22	0.40

There are no symmetry-related clashes.



## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
1	D	105/107 (98%)	100 (95%)	5 (5%)	0	100	100
1	H	105/107 (98%)	100 (95%)	5 (5%)	0	100	100
1	I	105/107 (98%)	101 (96%)	4 (4%)	0	100	100
2	B	4280/5027 (85%)	4144 (97%)	136 (3%)	0	100	100
2	E	4280/5027 (85%)	4142 (97%)	138 (3%)	0	100	100
2	G	4280/5027 (85%)	4142 (97%)	138 (3%)	0	100	100
2	J	4280/5027 (85%)	4140 (97%)	140 (3%)	0	100	100
3	C	124/137 (90%)	116 (94%)	8 (6%)	0	100	100
3	F	124/137 (90%)	116 (94%)	8 (6%)	0	100	100
3	K	124/137 (90%)	116 (94%)	8 (6%)	0	100	100
3	M	124/137 (90%)	116 (94%)	8 (6%)	0	100	100
All	All	18036/21084 (86%)	17434 (97%)	602 (3%)	0	100	100

There are no Ramachandran outliers to report.

### 5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	88/88 (100%)	88 (100%)	0	100	100
1	D	88/88 (100%)	88 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	H	88/88 (100%)	88 (100%)	0	100	100
1	I	88/88 (100%)	88 (100%)	0	100	100
2	B	3672/4270 (86%)	3665 (100%)	7 (0%)	92	94
2	E	3672/4270 (86%)	3665 (100%)	7 (0%)	92	94
2	G	3674/4270 (86%)	3667 (100%)	7 (0%)	92	94
2	J	3672/4270 (86%)	3665 (100%)	7 (0%)	92	94
3	C	104/114 (91%)	103 (99%)	1 (1%)	73	82
3	F	104/114 (91%)	103 (99%)	1 (1%)	73	82
3	K	104/114 (91%)	103 (99%)	1 (1%)	73	82
3	M	104/114 (91%)	103 (99%)	1 (1%)	73	82
All	All	15458/17888 (86%)	15426 (100%)	32 (0%)	91	94

All (32) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B	796	ARG
2	B	1623	ARG
2	B	2806	ARG
2	B	2827	ARG
2	B	2914	LYS
2	B	3262	ARG
2	B	4214	LYS
2	E	796	ARG
2	E	1623	ARG
2	E	2806	ARG
2	E	2827	ARG
2	E	2914	LYS
2	E	3262	ARG
2	E	4214	LYS
2	G	796	ARG
2	G	1623	ARG
2	G	2806	ARG
2	G	2827	ARG
2	G	2914	LYS
2	G	3262	ARG
2	G	4214	LYS
2	J	796	ARG
2	J	1623	ARG

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Mol	Chain	Res	Type
2	J	2806	ARG
2	J	2827	ARG
2	J	2914	LYS
2	J	3262	ARG
2	J	4214	LYS
3	C	81	GLN
3	F	81	GLN
3	K	81	GLN
3	M	81	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (79) such sidechains are listed below:

Mol	Chain	Res	Type
2	B	473	ASN
2	B	993	HIS
2	B	2180	GLN
2	B	2498	HIS
2	B	2688	HIS
2	B	3343	GLN
2	B	3700	GLN
2	B	3767	GLN
2	B	3806	ASN
2	B	3889	GLN
2	B	3960	GLN
2	B	3970	GLN
2	B	4009	GLN
2	B	4204	GLN
2	B	4949	GLN
2	E	399	GLN
2	E	473	ASN
2	E	647	ASN
2	E	993	HIS
2	E	2180	GLN
2	E	2498	HIS
2	E	3343	GLN
2	E	3700	GLN
2	E	3806	ASN
2	E	3889	GLN
2	E	3960	GLN
2	E	3970	GLN
2	E	4009	GLN
2	E	4204	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	E	4949	GLN
2	G	473	ASN
2	G	647	ASN
2	G	993	HIS
2	G	1563	GLN
2	G	2180	GLN
2	G	2498	HIS
2	G	3146	HIS
2	G	3343	GLN
2	G	3700	GLN
2	G	3806	ASN
2	G	3889	GLN
2	G	3960	GLN
2	G	3970	GLN
2	G	4009	GLN
2	G	4204	GLN
2	G	4949	GLN
2	J	399	GLN
2	J	473	ASN
2	J	647	ASN
2	J	877	ASN
2	J	993	HIS
2	J	2180	GLN
2	J	2498	HIS
2	J	2688	HIS
2	J	3343	GLN
2	J	3700	GLN
2	J	3806	ASN
2	J	3889	GLN
2	J	3960	GLN
2	J	3970	GLN
2	J	4009	GLN
2	J	4204	GLN
2	J	4949	GLN
3	C	3	GLN
3	C	5	GLN
3	C	73	ASN
3	C	111	ASN
3	F	3	GLN
3	F	5	GLN
3	F	73	ASN
3	F	111	ASN

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
3	K	3	GLN
3	K	5	GLN
3	K	73	ASN
3	K	111	ASN
3	M	3	GLN
3	M	5	GLN
3	M	73	ASN
3	M	111	ASN

### 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	$\# Z  > 2$
5	ATP	E	5102	-	26,33,33	0.60	0	31,52,52	0.79	2 (6%)
6	CFF	B	5103	-	8,15,15	1.02	0	8,23,23	2.44	2 (25%)
6	CFF	G	5103	-	8,15,15	1.03	0	8,23,23	2.43	2 (25%)
5	ATP	J	5102	-	26,33,33	0.60	0	31,52,52	0.80	2 (6%)
6	CFF	J	5103	-	8,15,15	1.01	0	8,23,23	2.43	2 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
5	ATP	G	5102	-	26,33,33	0.60	0	31,52,52	0.79	2 (6%)
6	CFF	E	5103	-	8,15,15	1.03	0	8,23,23	2.42	2 (25%)
5	ATP	B	5102	-	26,33,33	0.60	0	31,52,52	0.79	2 (6%)

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
5	ATP	E	5102	-	-	5/18/38/38	0/3/3/3
6	CFF	B	5103	-	-	-	0/2/2/2
6	CFF	G	5103	-	-	-	0/2/2/2
5	ATP	J	5102	-	-	5/18/38/38	0/3/3/3
6	CFF	J	5103	-	-	-	0/2/2/2
5	ATP	G	5102	-	-	5/18/38/38	0/3/3/3
6	CFF	E	5103	-	-	-	0/2/2/2
5	ATP	B	5102	-	-	5/18/38/38	0/3/3/3

There are no bond length outliers.

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	G	5103	CFF	C5-C6-N1	-5.77	112.05	118.20
6	B	5103	CFF	C5-C6-N1	-5.76	112.06	118.20
6	J	5103	CFF	C5-C6-N1	-5.76	112.06	118.20
6	E	5103	CFF	C5-C6-N1	-5.75	112.07	118.20
6	B	5103	CFF	C4-C5-C6	3.53	122.22	119.96
6	G	5103	CFF	C4-C5-C6	3.45	122.18	119.96
6	J	5103	CFF	C4-C5-C6	3.45	122.18	119.96
6	E	5103	CFF	C4-C5-C6	3.42	122.16	119.96
5	J	5102	ATP	C5-C6-N6	2.34	123.91	120.35
5	E	5102	ATP	C5-C6-N6	2.32	123.88	120.35
5	B	5102	ATP	C5-C6-N6	2.31	123.86	120.35
5	G	5102	ATP	C5-C6-N6	2.28	123.81	120.35
5	B	5102	ATP	PB-O3B-PG	2.05	139.87	132.83
5	E	5102	ATP	PB-O3B-PG	2.04	139.83	132.83
5	G	5102	ATP	PB-O3B-PG	2.04	139.83	132.83
5	J	5102	ATP	PB-O3B-PG	2.04	139.83	132.83

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	5102	ATP	C5'-O5'-PA-O1A
5	B	5102	ATP	C5'-O5'-PA-O2A
5	E	5102	ATP	C5'-O5'-PA-O1A
5	E	5102	ATP	C5'-O5'-PA-O2A
5	G	5102	ATP	C5'-O5'-PA-O1A
5	G	5102	ATP	C5'-O5'-PA-O2A
5	J	5102	ATP	C5'-O5'-PA-O1A
5	J	5102	ATP	C5'-O5'-PA-O2A
5	B	5102	ATP	C4'-C5'-O5'-PA
5	E	5102	ATP	C4'-C5'-O5'-PA
5	G	5102	ATP	C4'-C5'-O5'-PA
5	J	5102	ATP	C4'-C5'-O5'-PA
5	B	5102	ATP	O4'-C4'-C5'-O5'
5	E	5102	ATP	O4'-C4'-C5'-O5'
5	G	5102	ATP	O4'-C4'-C5'-O5'
5	J	5102	ATP	O4'-C4'-C5'-O5'
5	B	5102	ATP	C5'-O5'-PA-O3A
5	E	5102	ATP	C5'-O5'-PA-O3A
5	G	5102	ATP	C5'-O5'-PA-O3A
5	J	5102	ATP	C5'-O5'-PA-O3A

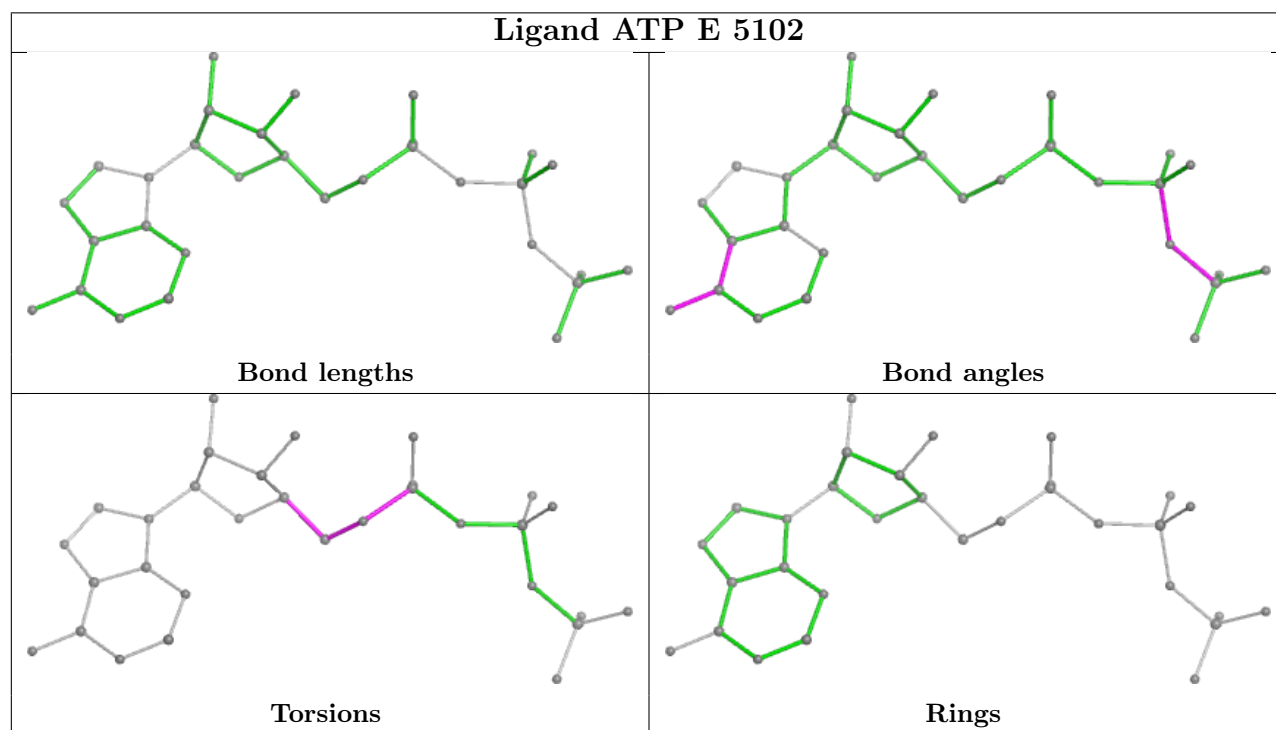
There are no ring outliers.

4 monomers are involved in 4 short contacts:

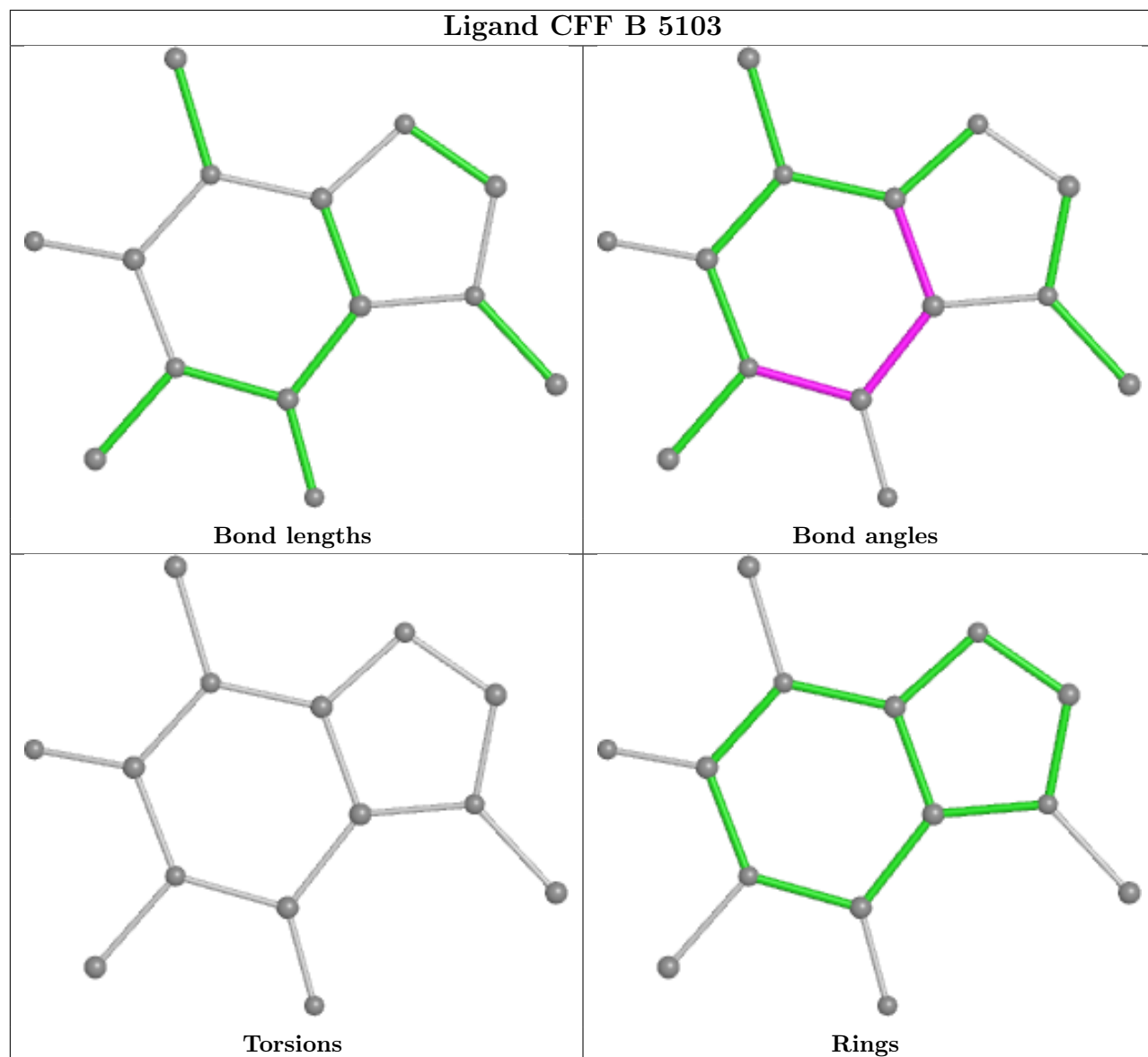
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	E	5102	ATP	1	0
5	J	5102	ATP	1	0
5	G	5102	ATP	1	0
5	B	5102	ATP	1	0

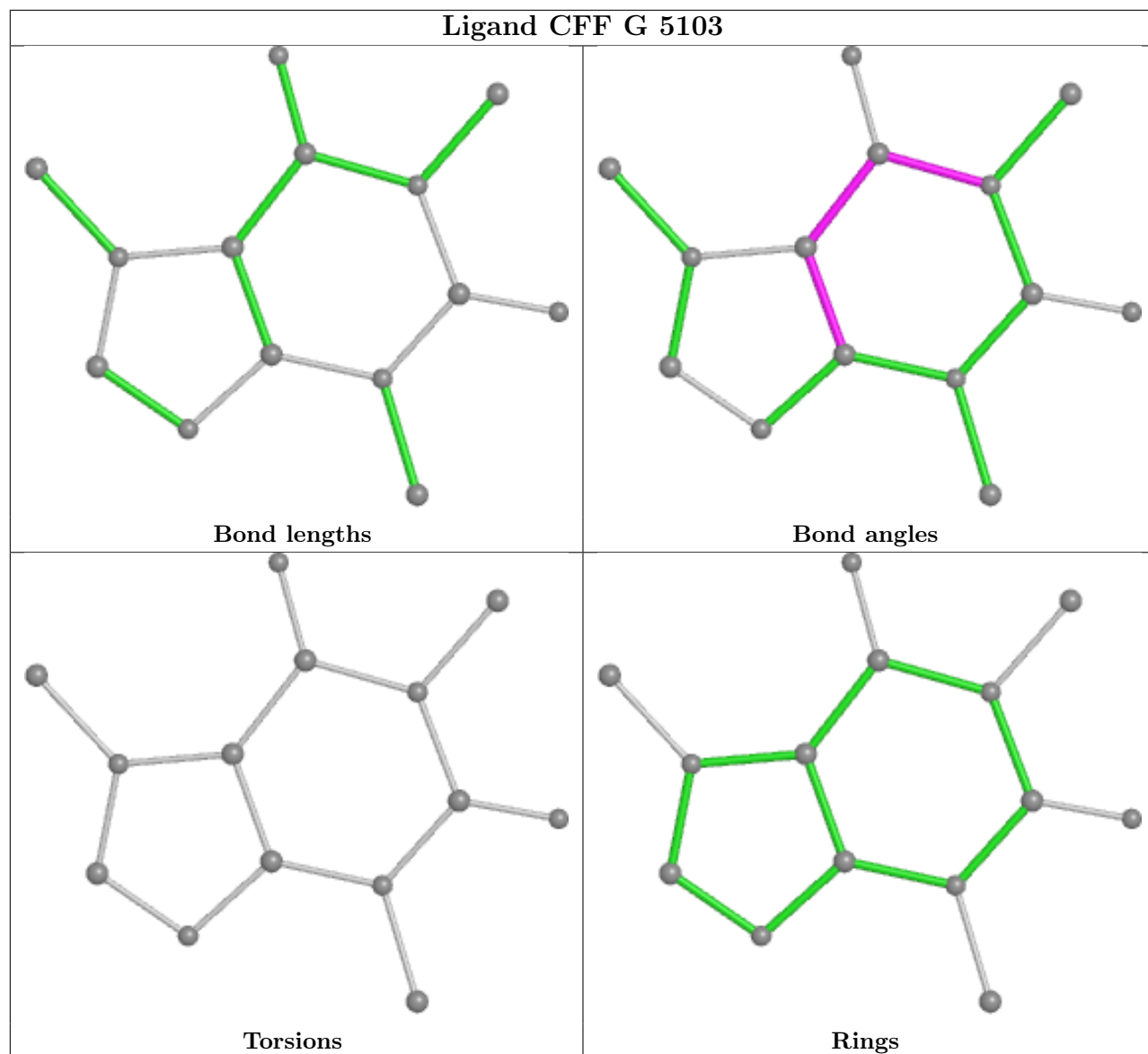
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

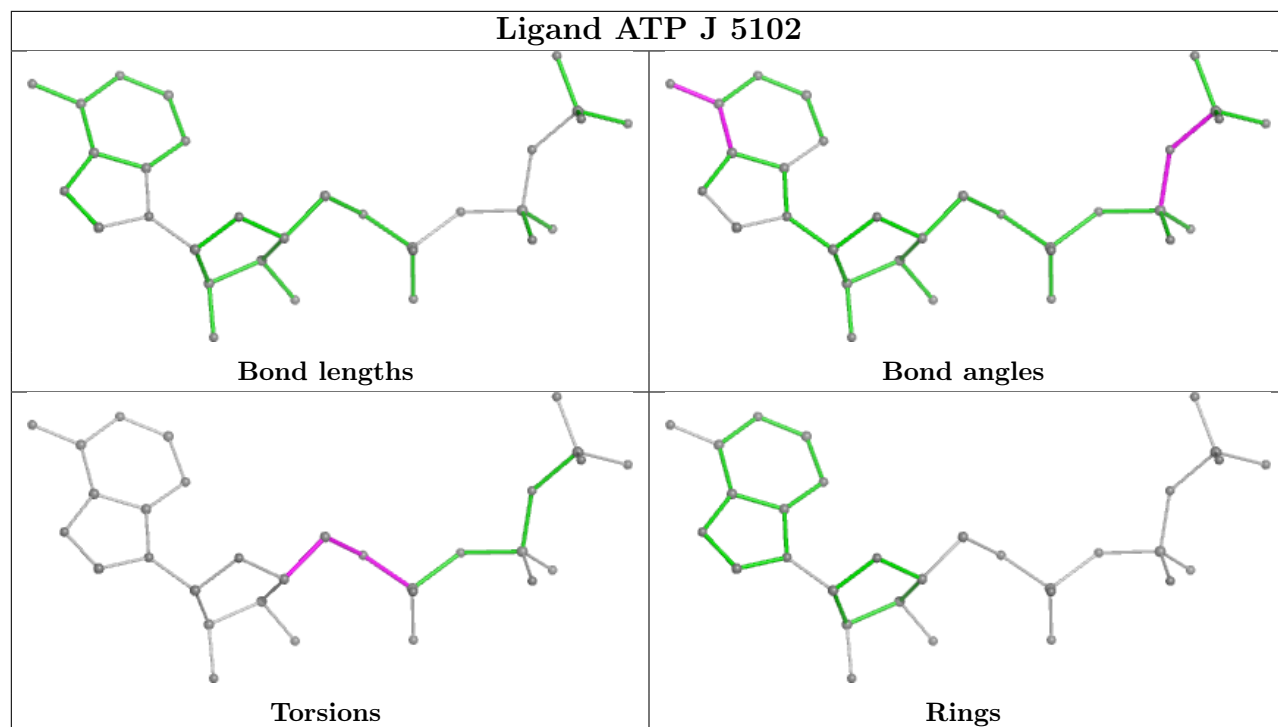
The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

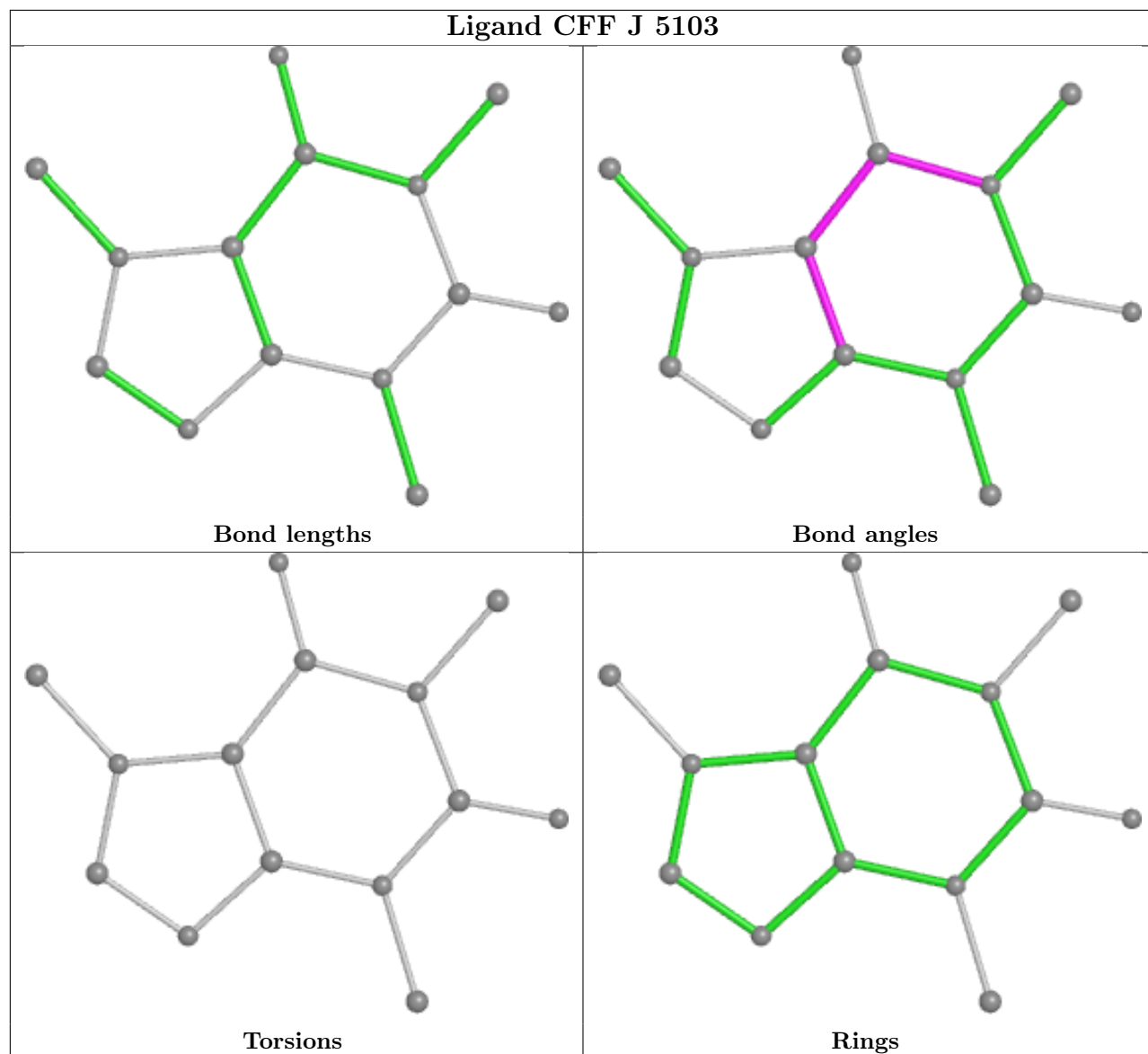


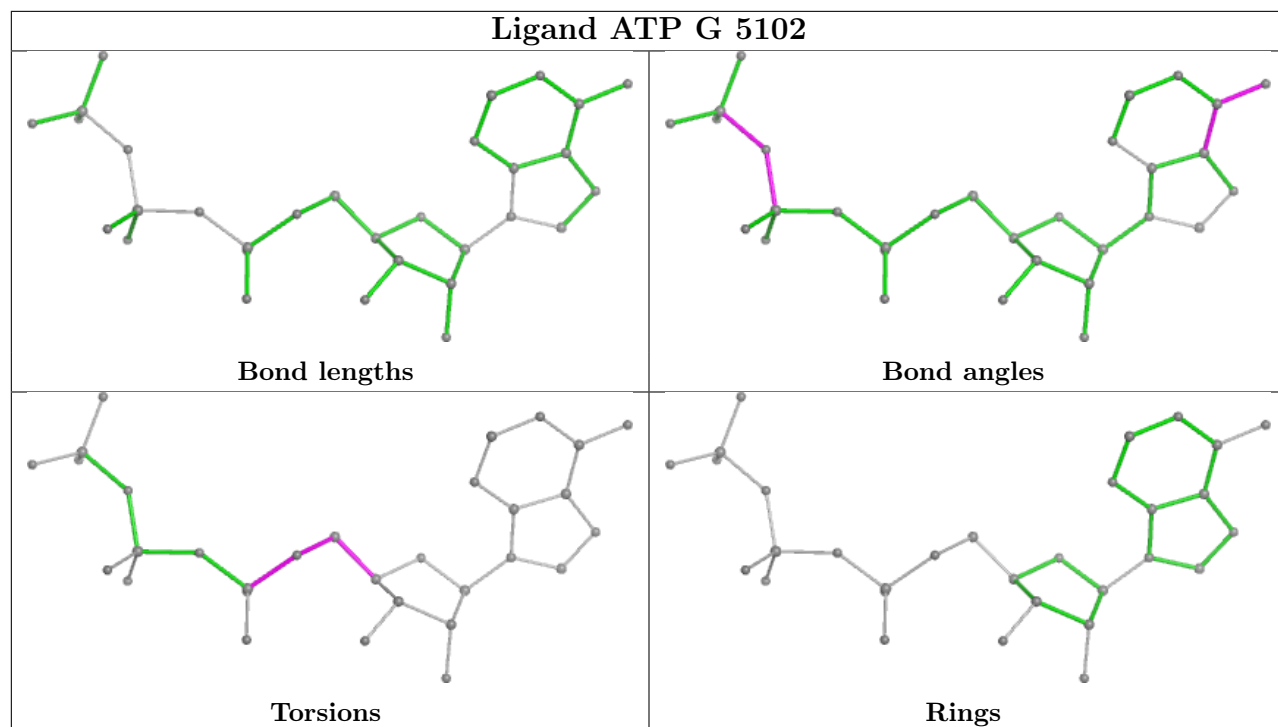


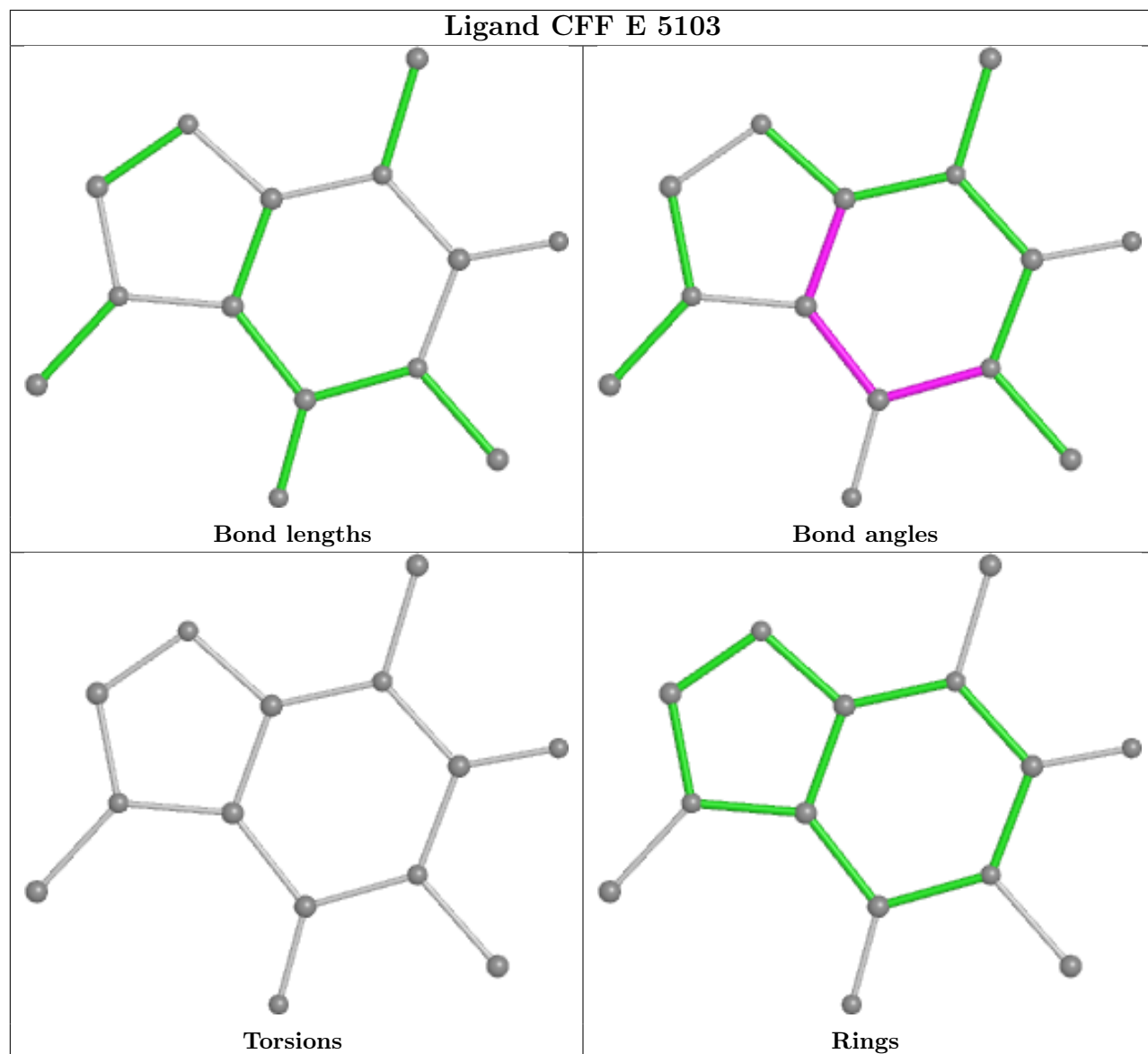


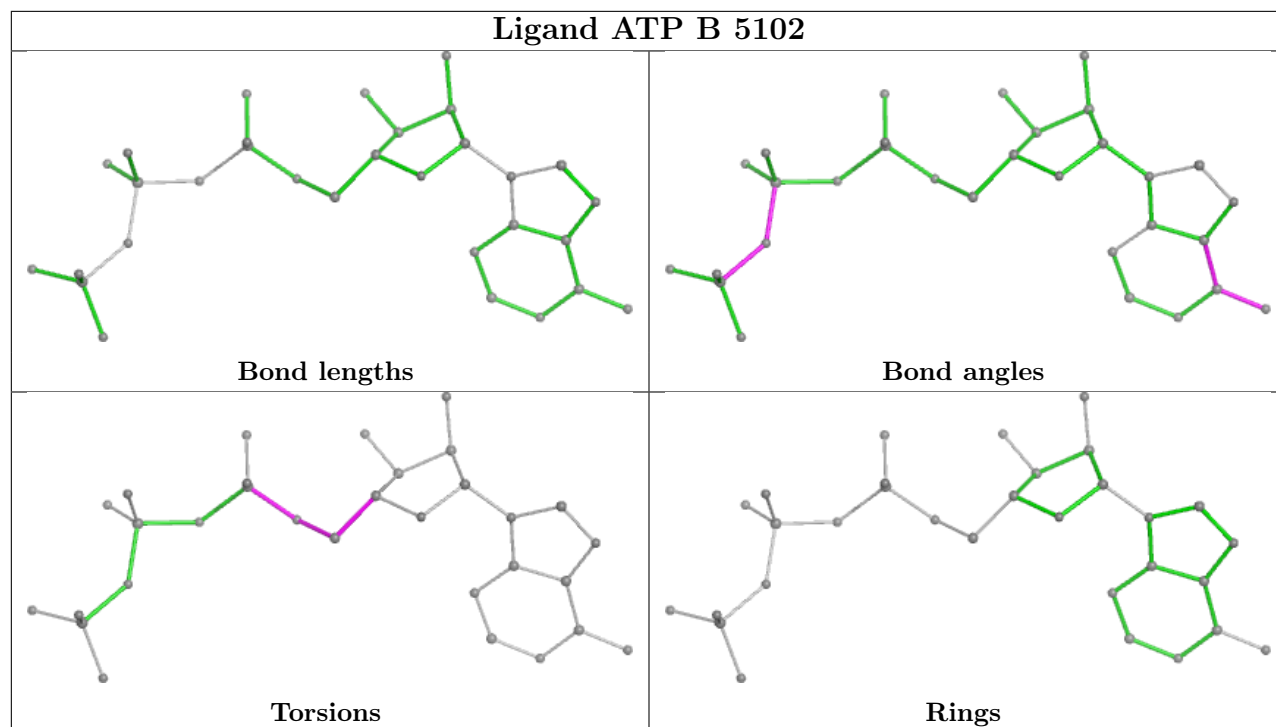












## 5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [\(i\)](#)

There are no chain breaks in this entry.

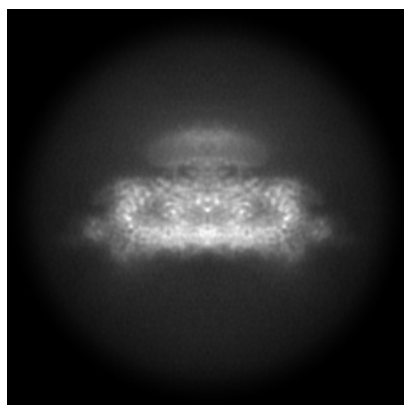
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-19465. These allow visual inspection of the internal detail of the map and identification of artifacts.

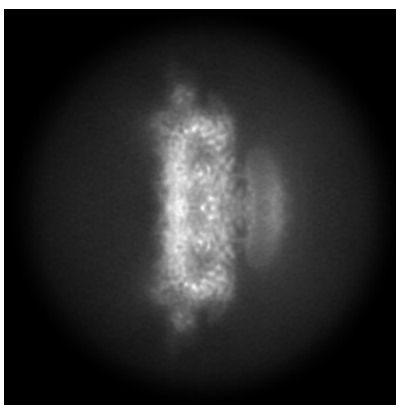
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

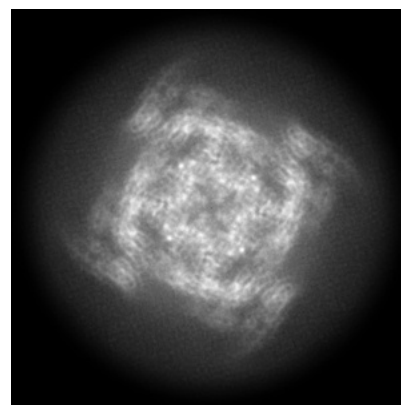
#### 6.1.1 Primary map



X



Y

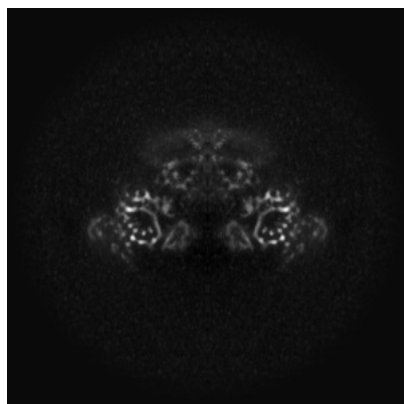


Z

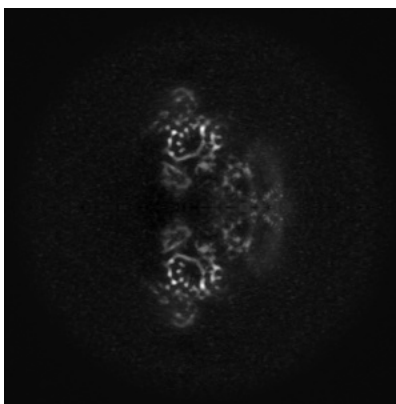
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

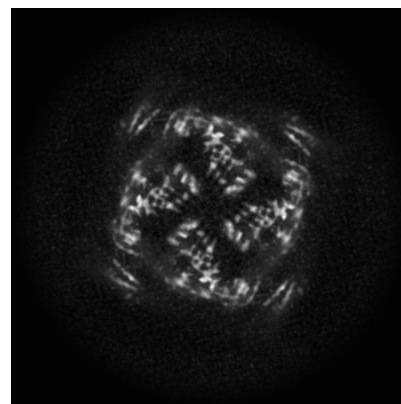
#### 6.2.1 Primary map



X Index: 168



Y Index: 168



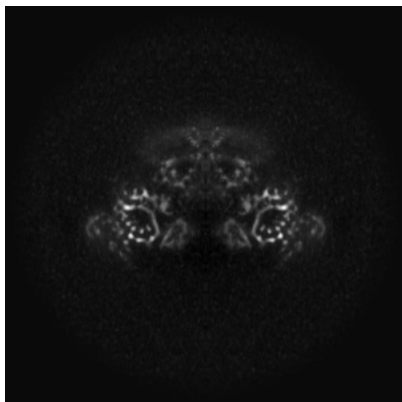
Z Index: 168



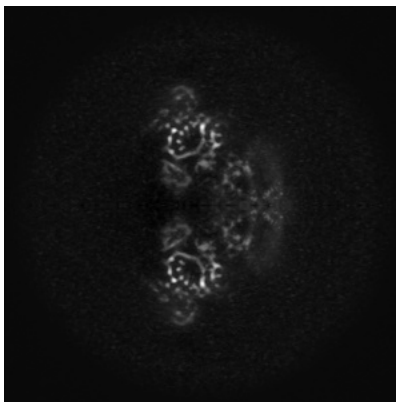
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

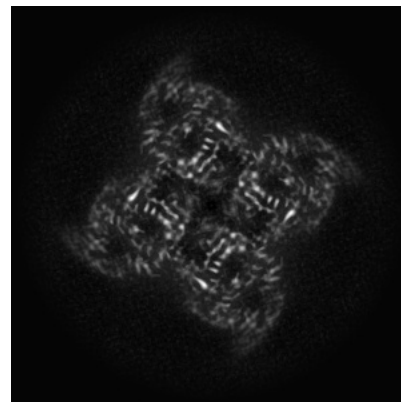
### 6.3.1 Primary map



X Index: 168



Y Index: 168

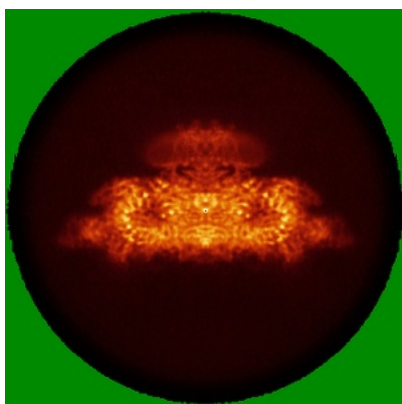


Z Index: 145

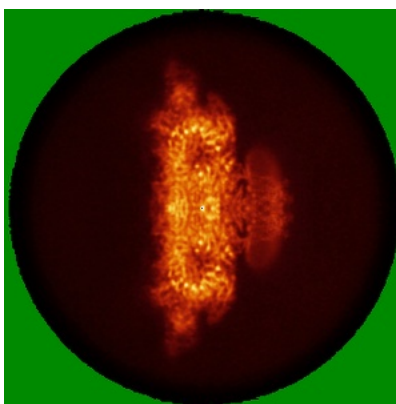
The images above show the largest variance slices of the map in three orthogonal directions.

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

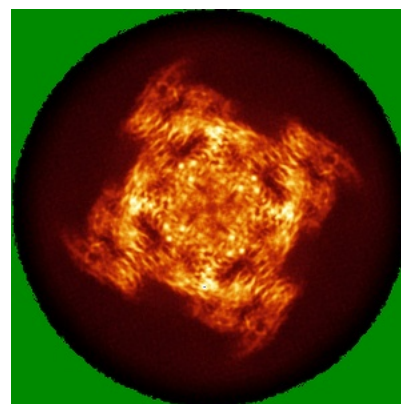
### 6.4.1 Primary map



X



Y

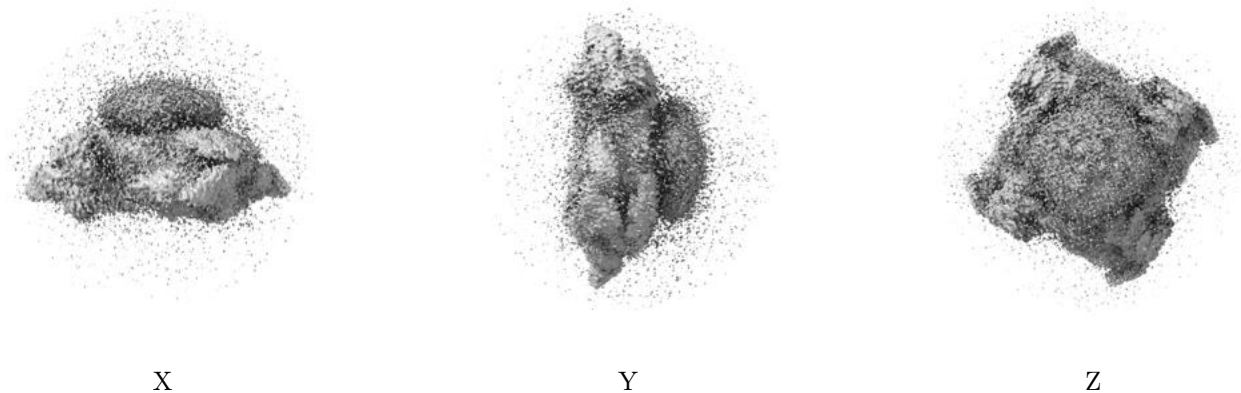


Z

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 0.2. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

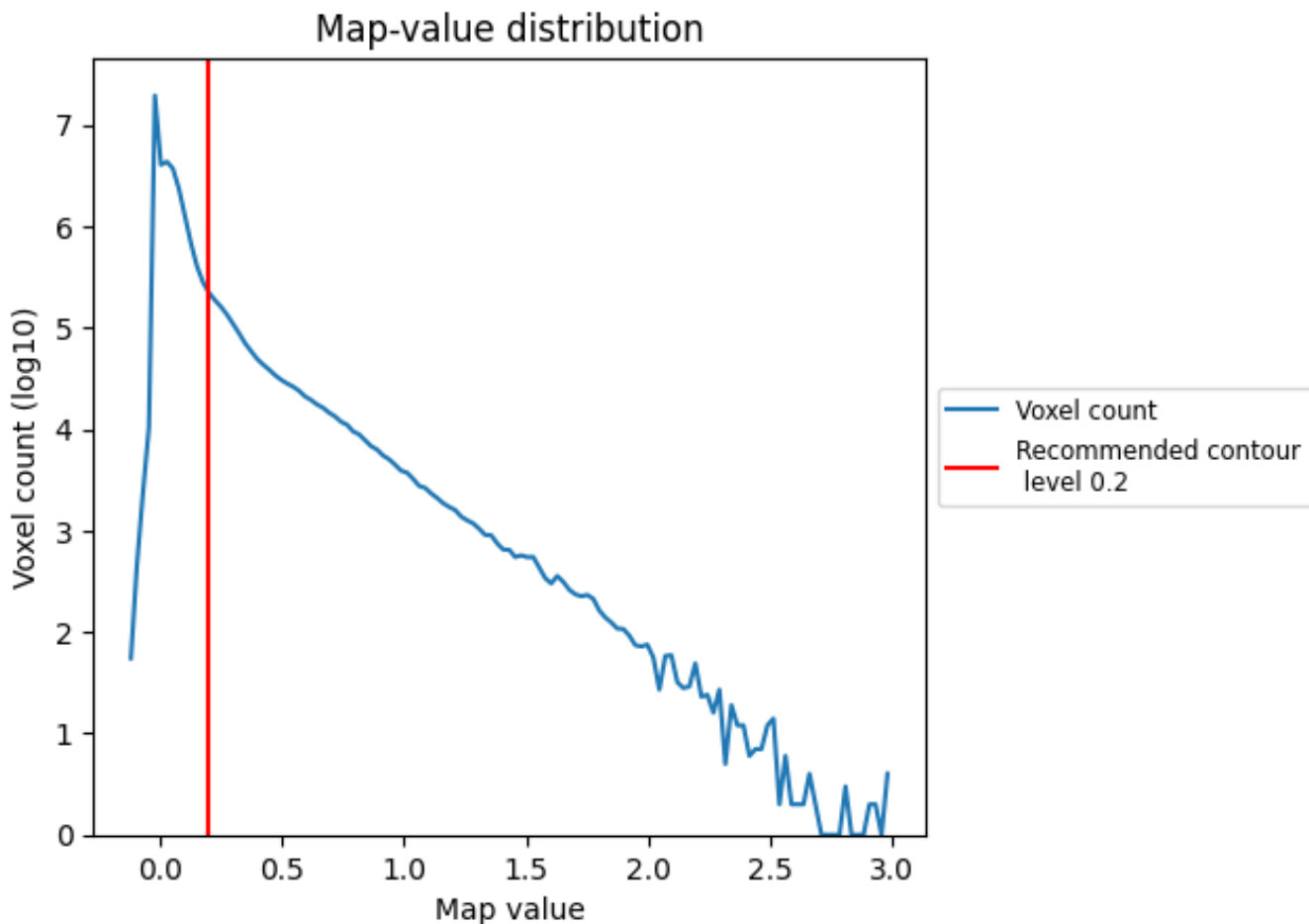
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

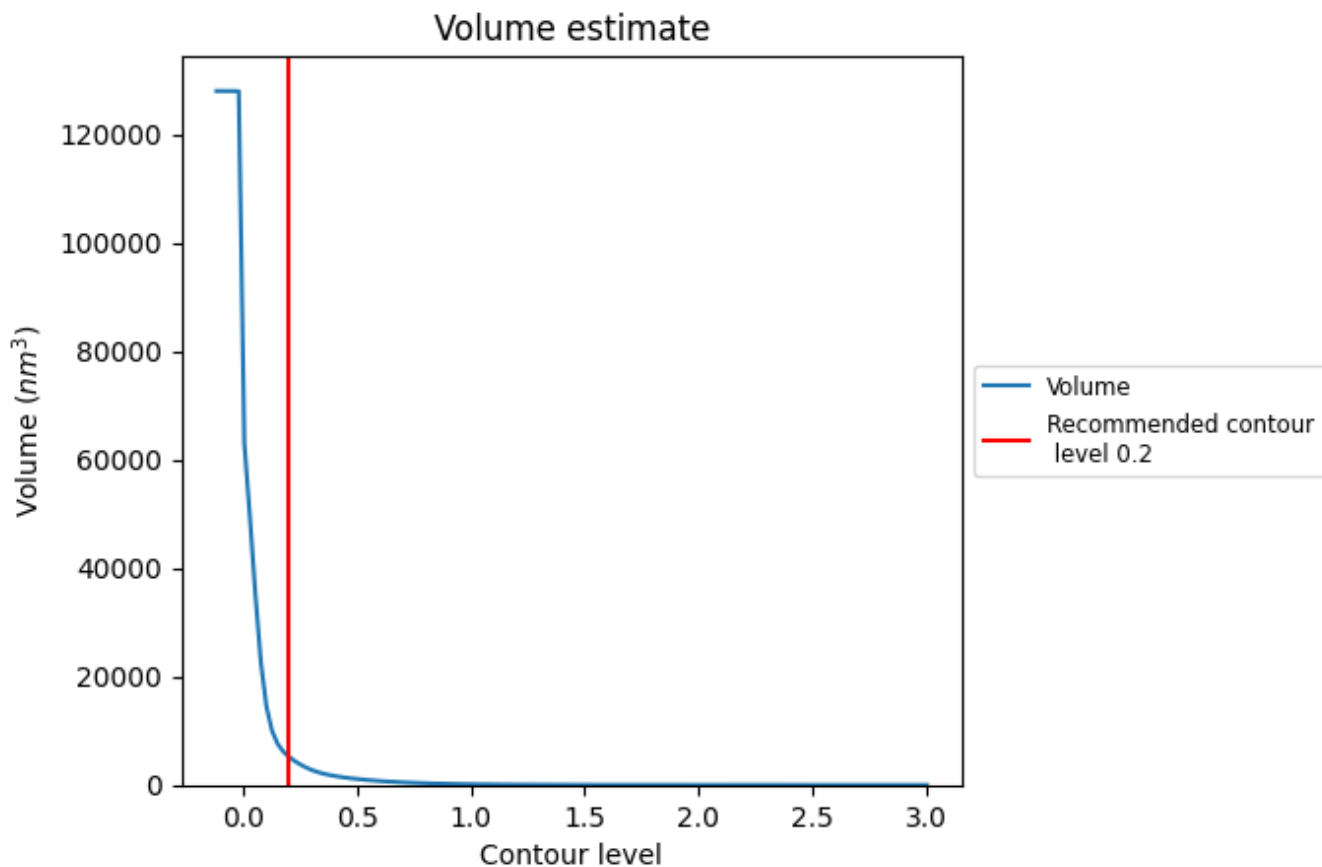
This section contains the results of statistical analysis of the map.

### 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.

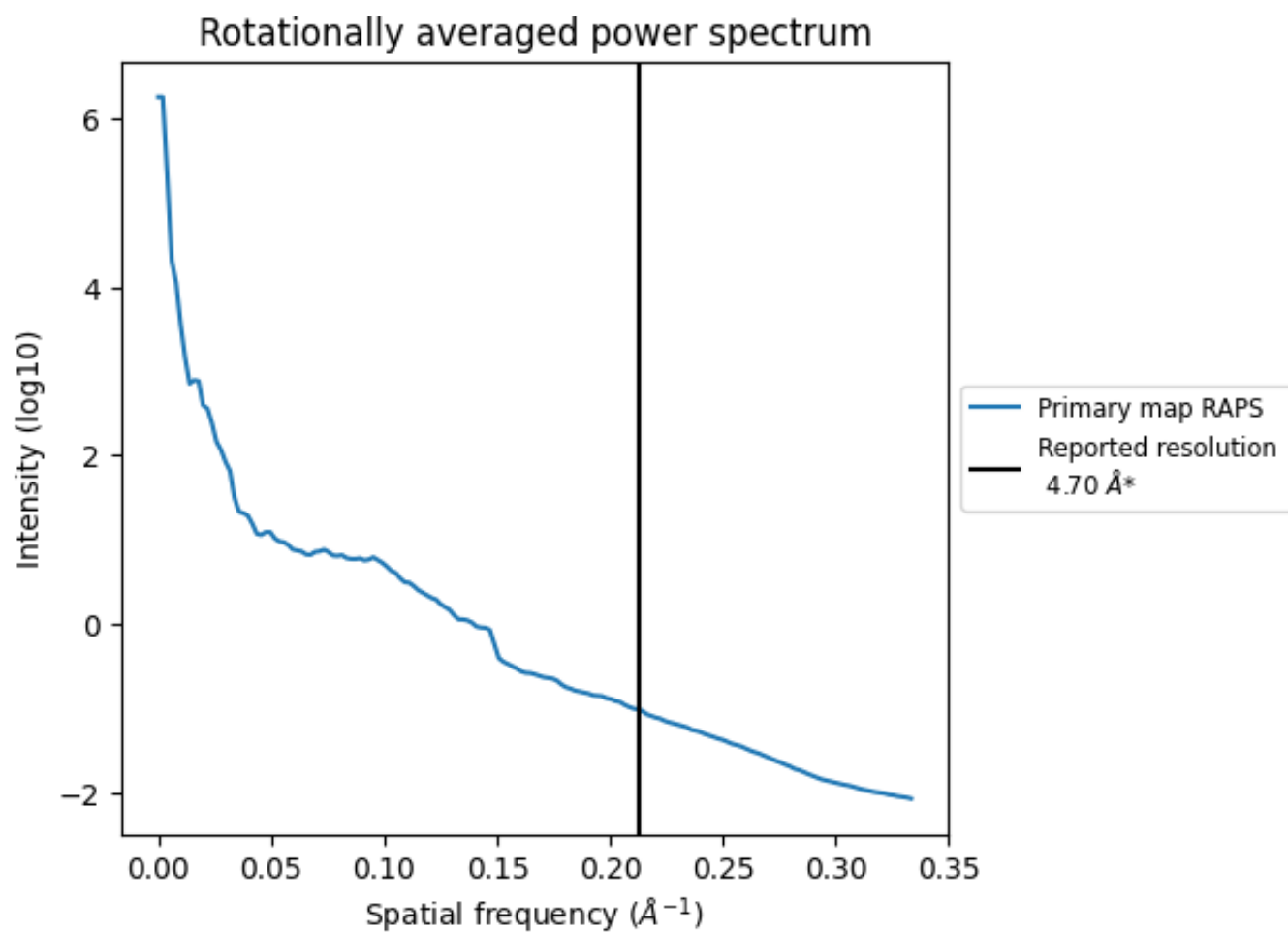
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is  $5220 \text{ nm}^3$ ; this corresponds to an approximate mass of 4715 kDa.

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

### 7.3 Rotationally averaged power spectrum [\(i\)](#)

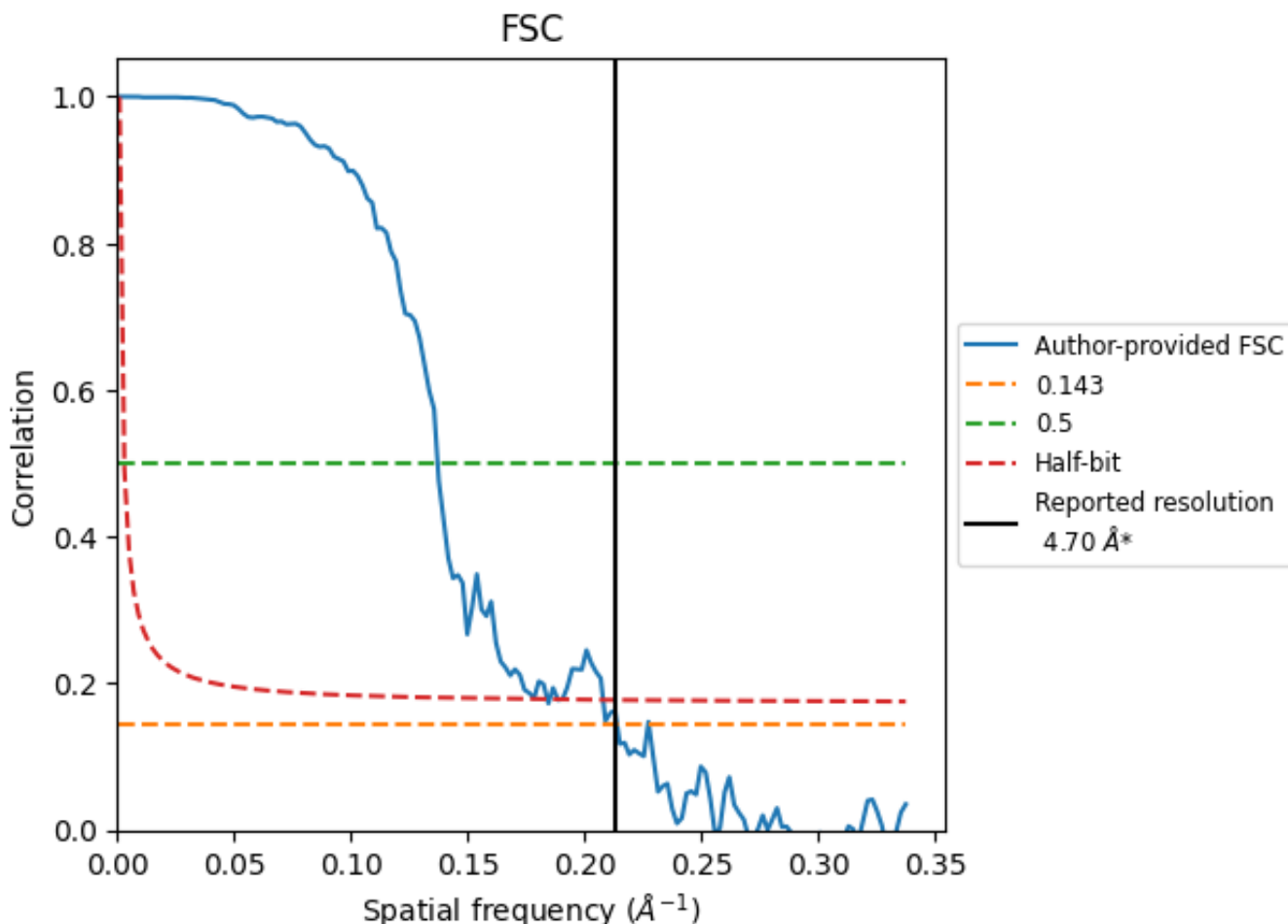


\*Reported resolution corresponds to spatial frequency of 0.213 Å<sup>-1</sup>

## 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 0.213 Å<sup>-1</sup>

## 8.2 Resolution estimates [i](#)

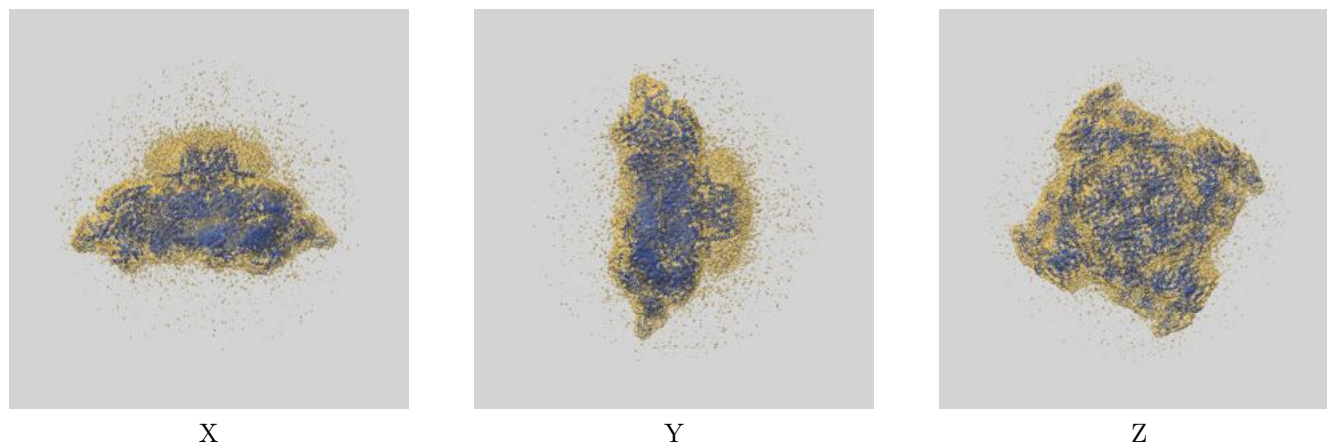
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.70	-	-
Author-provided FSC curve	4.68	7.29	5.43
Unmasked-calculated*	-	-	-

\*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-19465 and PDB model 8RRU. Per-residue inclusion information can be found in section 3 on page 8.

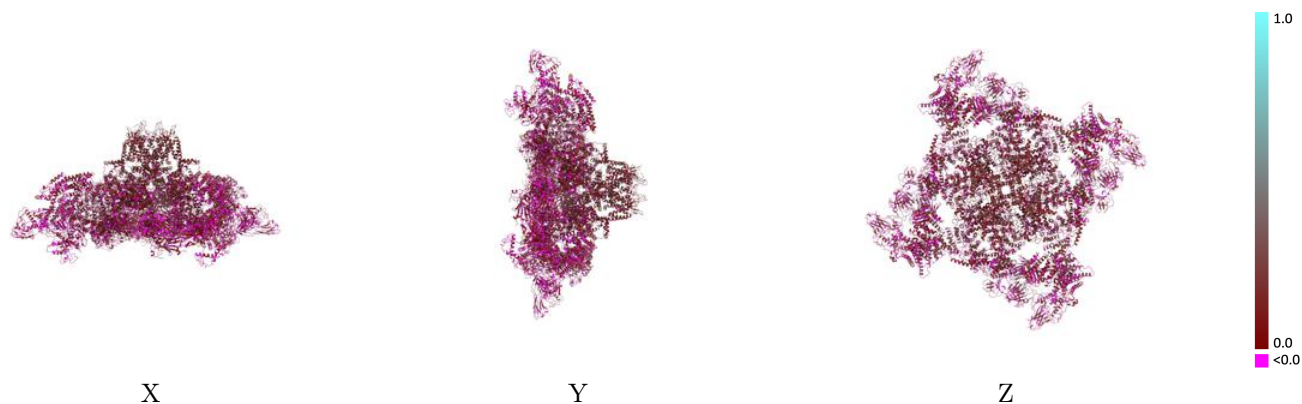
### 9.1 Map-model overlay [i](#)



The images above show the 3D surface view of the map at the recommended contour level 0.2 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.

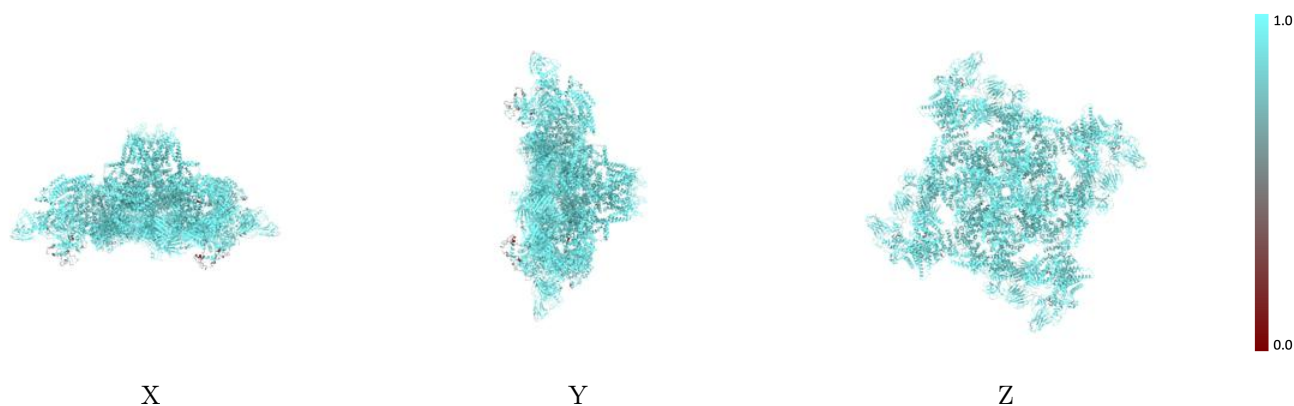


## 9.2 Q-score mapped to coordinate model [i](#)



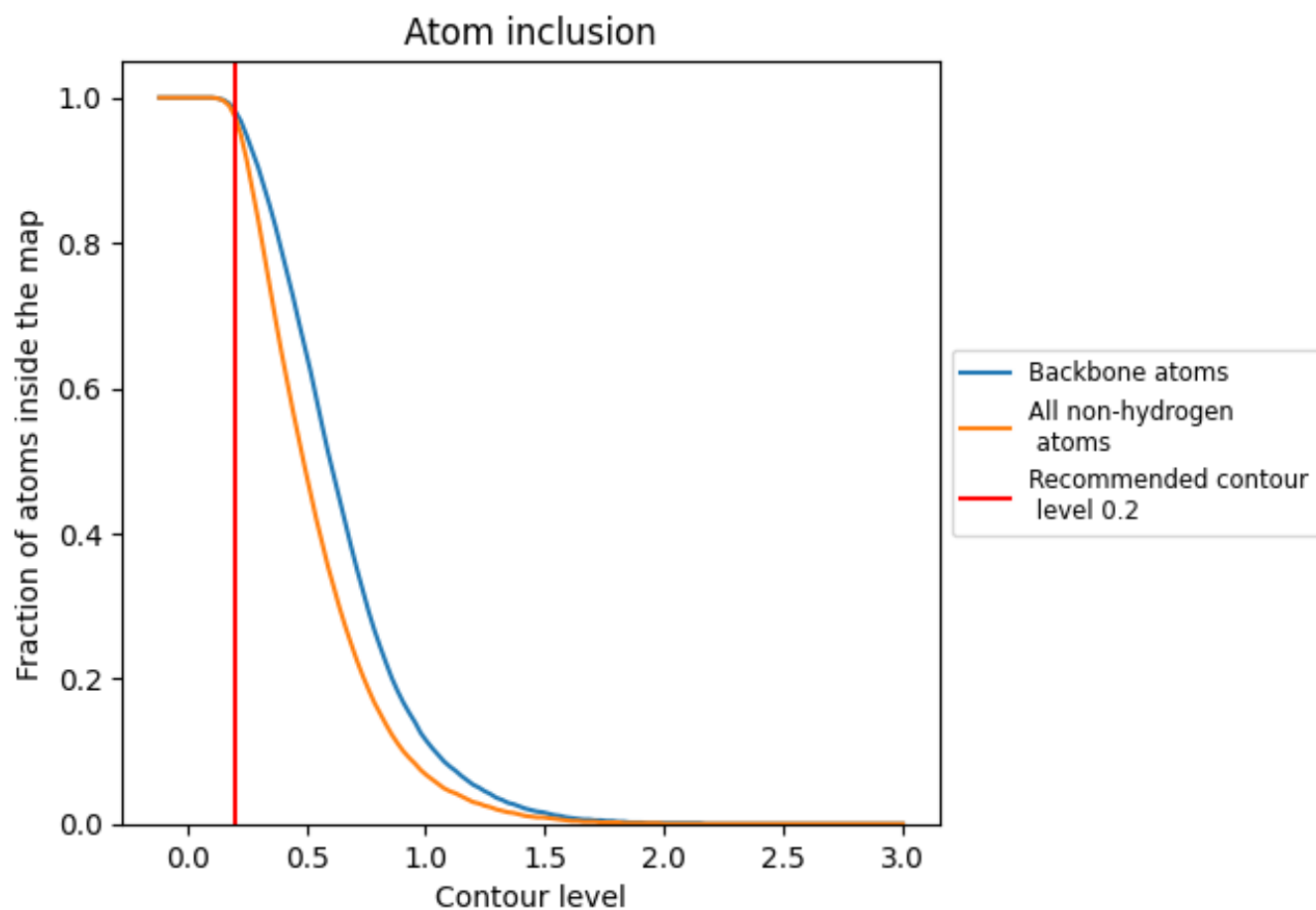
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.2).



























## 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 (0.2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9740	 0.1100
A	 0.9860	 0.0460
B	 0.9760	 0.1140
C	 0.9180	 0.0580
D	 0.9860	 0.0440
E	 0.9760	 0.1130
F	 0.9190	 0.0590
G	 0.9760	 0.1140
H	 0.9880	 0.0460
I	 0.9850	 0.0440
J	 0.9760	 0.1140
K	 0.9160	 0.0570
M	 0.9270	 0.0610

