



Full wwPDB EM Validation Report ⓘ

Nov 20, 2022 – 05:52 pm GMT

PDB ID : 4V8W
EMDB ID : EMD-2357
Title : Structure and conformational variability of the Mycobacterium tuberculosis fatty acid synthase multienzyme complex
Authors : Ciccarelli, L.; Connell, S.R.; Enderle, M.; Mills, D.J.; Vonck, J.; Grininger, M.
Deposited on : 2013-04-18
Resolution : 17.50 Å(reported)
Based on initial model : 3ZEN

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

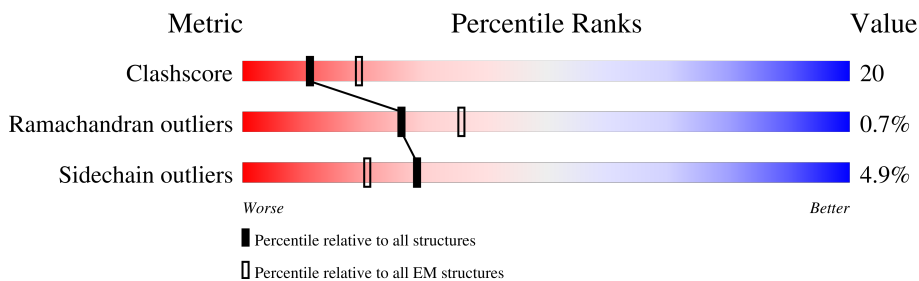
EMDB validation analysis : 0.0.1.dev43
Mogul : 1.8.4, CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA)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

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 17.50 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

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

2 Entry composition i

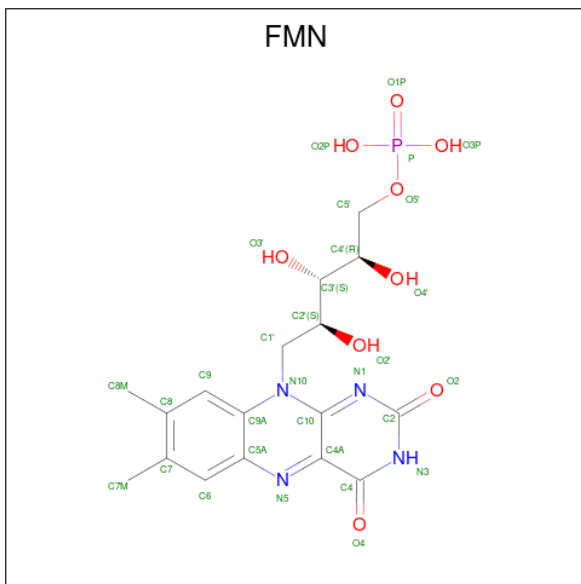
There are 2 unique types of molecules in this entry. The entry contains 123082 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 TYPE-I FATTY ACID SYNTHASE.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	D	2452	Total	C	N	O	S	0	0
			18171	11459	3176	3473	63		
1	E	2822	Total	C	N	O	S	0	0
			20945	13219	3662	3998	66		
1	F	2822	Total	C	N	O	S	0	0
			20945	13219	3662	3998	66		
1	A	2822	Total	C	N	O	S	0	0
			20945	13219	3662	3998	66		
1	B	2822	Total	C	N	O	S	0	0
			20945	13219	3662	3998	66		
1	C	2822	Total	C	N	O	S	0	0
			20945	13219	3662	3998	66		

- Molecule 2 is FLAVIN MONONUCLEOTIDE (three-letter code: FMN) (formula: C₁₇H₂₁N₄O₉P).

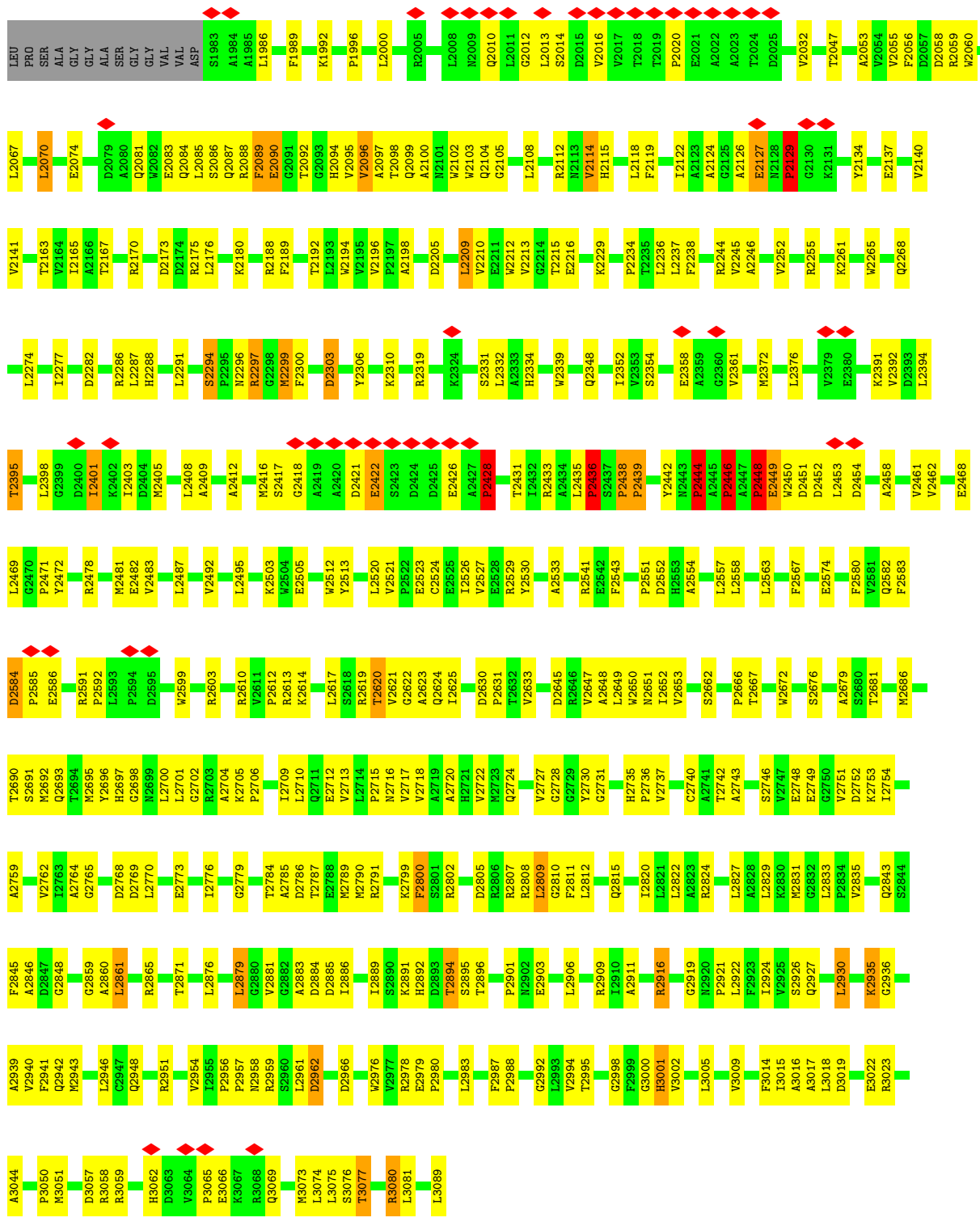


Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
2	D	1	Total	C	N	O	P	0
			31	17	4	9	1	

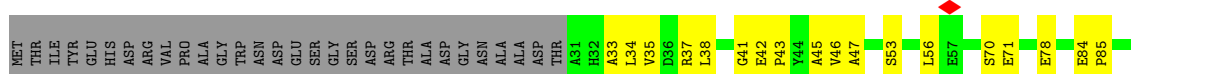
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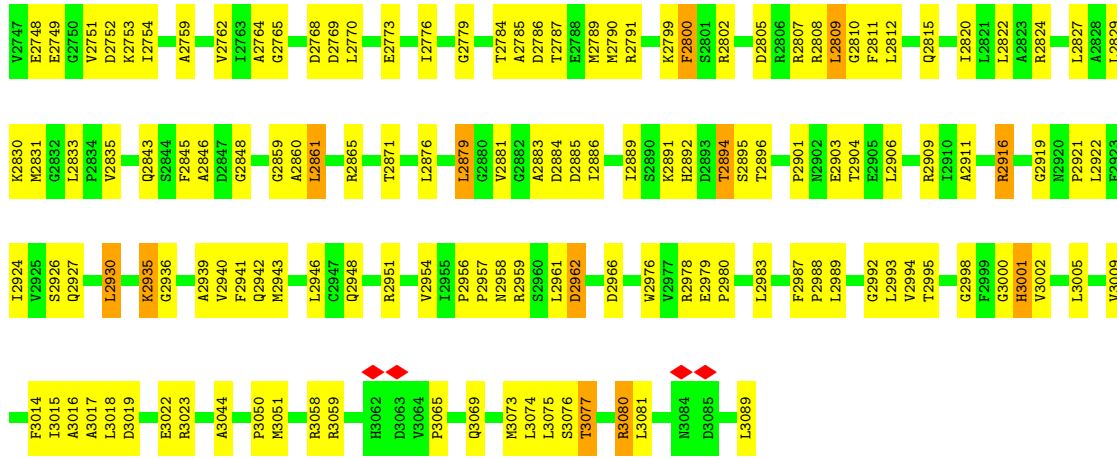
Mol	Chain	Residues	Atoms					AltConf
2	E	1	Total 31	C 17	N 4	O 9	P 1	0
2	F	1	Total 31	C 17	N 4	O 9	P 1	0
2	A	1	Total 31	C 17	N 4	O 9	P 1	0
2	B	1	Total 31	C 17	N 4	O 9	P 1	0
2	C	1	Total 31	C 17	N 4	O 9	P 1	0



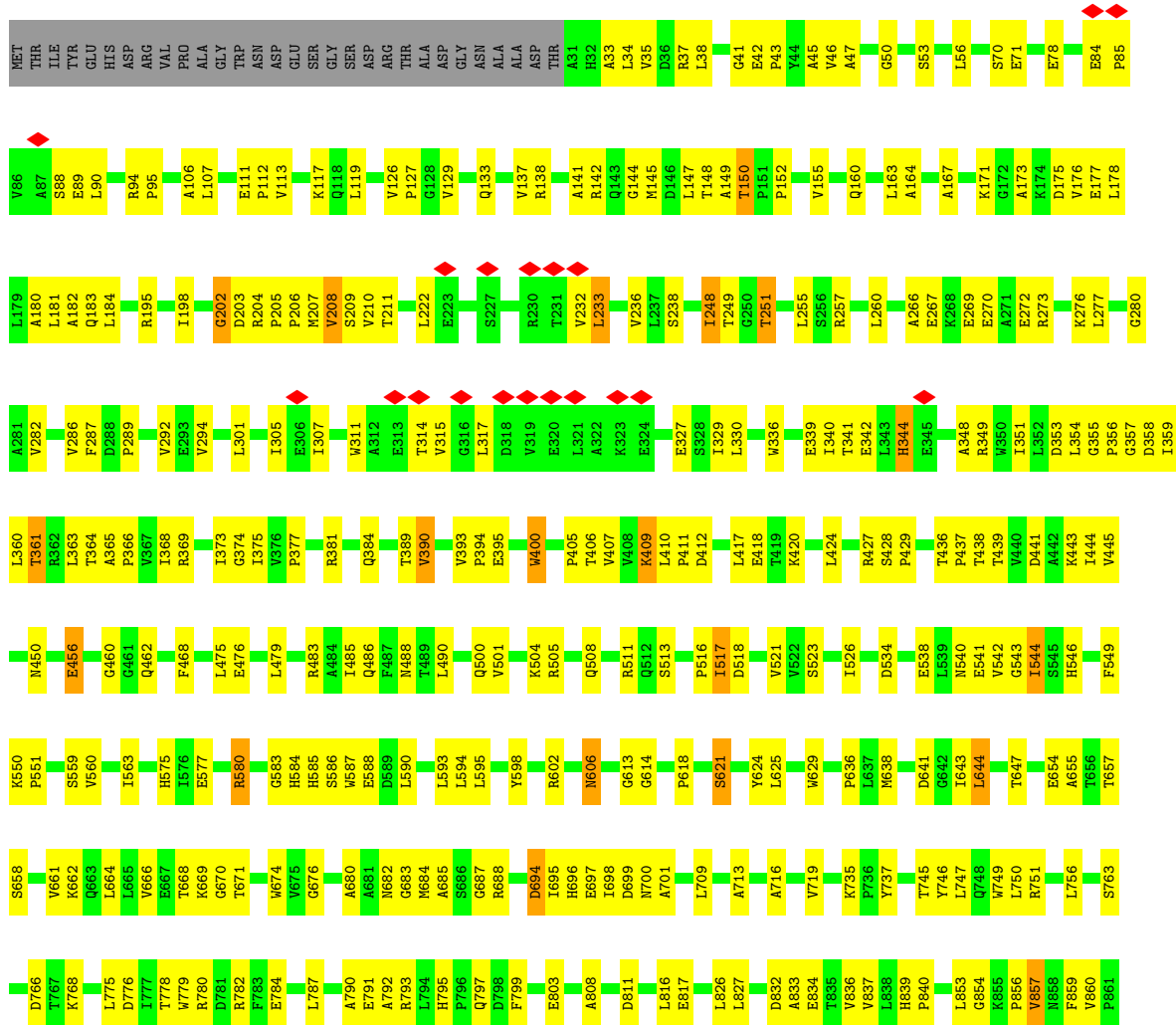
• Molecule 1: TYPE-I FATTY ACID SYNTHASE

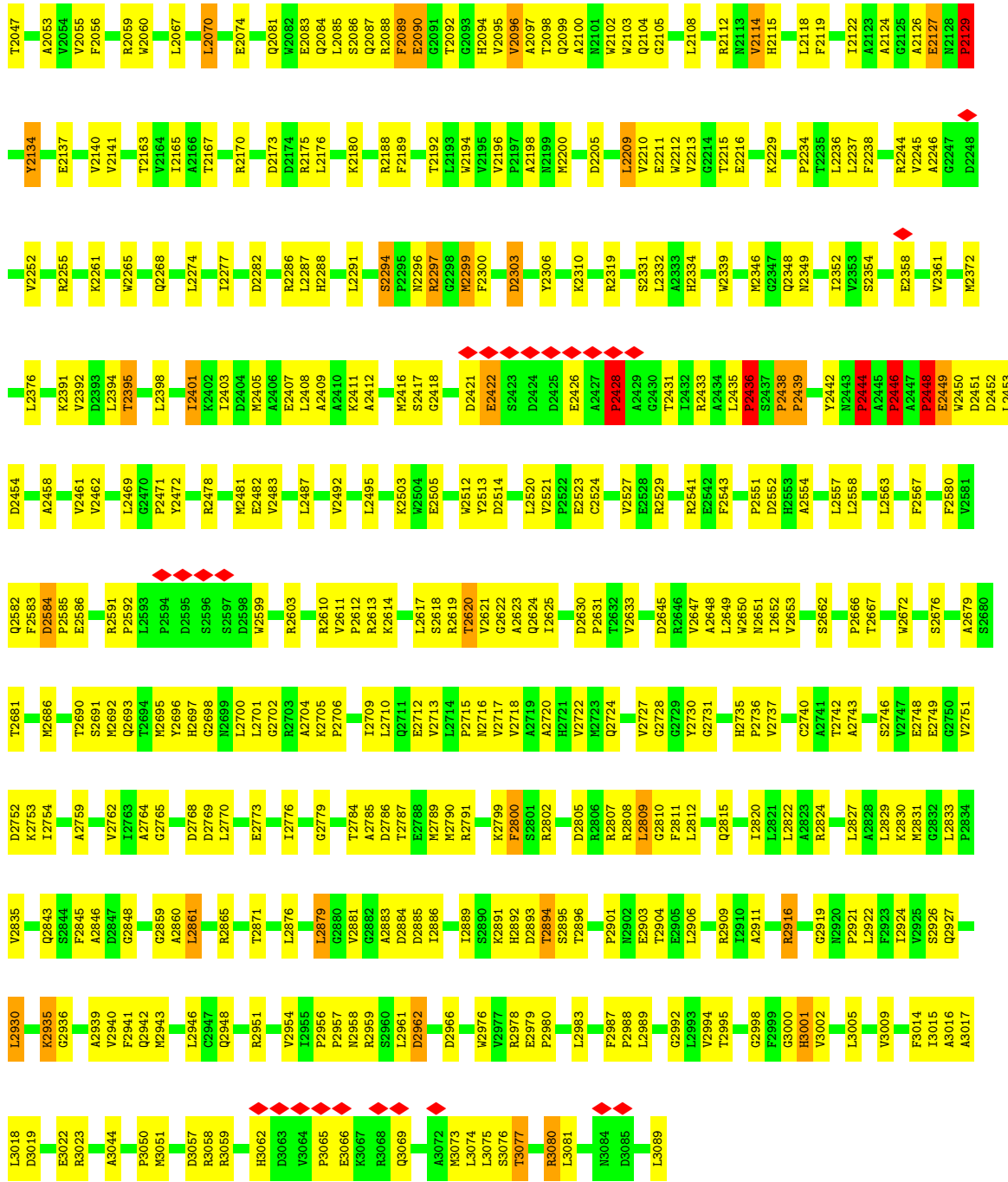


D1511	I1611	R1699	ALA	SER	LYS	A2063	Y2134	V2252	K2391	V2461	F2580	P2675
D1514	I1612	R1700	ALA	ASN	VAL	V2064	E2137	R2255	V2392	V2462	V2581	S2676
V1519	R1613	V1701	PRO	GLN	ILE	F2056	R2140	R2256	D2393	E2468	Q2582	A2679
E1520	R1614	E1702	VAL	LEU	GLY	R2059	V2141	K2261	L2394	G2470	F2583	S2680
E1524	I1615	I1703	VAL	VAL	ALA	W2060	V2163	W2285	T2395	P2471	P2584	T2681
R1525	R1617	G1704	ALA	ASP	VAL	W2067	T2163	W2286	L2398	Y2472	P2585	M2686
T1526	V1618	V1705	PRO	LEU	ALA	L2070	I2166	Q2288	G2399	R2478	R2591	T2690
G1527	V1619	K1706	ALA	SER	VAL	E2074	I2165	L2274	D2400	R2479	S2691	S2691
E1528	V1622	T1710	ALA	GLU	ALA	D2079	I2166	L2274	I2401	M2481	L2593	M2692
F1529	P1623	V1711	PRO	GLU	ALA	Q2081	A2166	T2277	K2402	E2482	Q2693	M2693
L1530	L1625	G1712	PRO	TRP	ARG	W2083	T2167	D2282	I2403	V2483	P2594	T2694
E1531	R1634	S1713	PRO	ALA	ARG	R2084	R2170	D2283	A2406	L2487	D2595	M2695
I1532	L1637	L1714	ASP	ILE	ILE	Q2081	D2173	R2286	E2407	L2488	S2596	M2696
V1533	V1638	L1719	ASP	LEU	ILE	W2085	D2174	L2287	L2408	V2492	R2597	H2697
M1534	A1639	E1722	ASP	GLY	SER	Q2087	R2175	H2288	L2412	L2495	D2598	G2698
F1535	A1647	S1725	THR	ALA	LEU	R2088	L2176	L2289	A2416	K2503	W2599	W2699
L1537	D1648	E1730	PHE	ALA	ALA	F2089	R2188	S2294	M2416	W2504	R2603	L2700
R1538	Y1649	L1732	ASP	ALA	ALA	G2091	F2189	N2295	S2417	E2505	R2610	L2701
G1539	D1650	M1733	ASP	VAL	GLY	T2092	T2192	R2297	G2418	G2505	R2611	G2702
S1540	T1651	R1734	ASP	ALA	VAL	G2093	L2193	M2298	A2419	M2504	R2612	R2703
Q1541	T1652	E1735	THR	GLY	GLY	H2094	V2194	M2299	A2420	E2505	P2613	A2704
Y1542	R1653	R1736	VAL	PHE	VAL	W2095	W2196	F2300	D2424	D2425	K2614	K2705
A1543	N1654	D1737	ALA	GLN	VAL	V2096	F2197	D2303	D2425	A2426	L2617	P2706
I1544	F1655	L1741	LEU	VAL	ASP	A2097	A2198	Y2306	E2426	A2427	S2618	L2709
L1551	K1656	L1745	LEU	THR	THR	T2098	D2205	K2310	A2427	P2428	D2619	L2710
E1552	P1657	D1745	LEU	THR	THR	Q2099	L2209	R2319	T2431	T2432	R2620	L2711
A1553	K1658	THR	LEU	LEU	ARG	A2100	V2210	R2319	I2432	R2433	R2621	L2712
L1554	E1659	ASP	ALA	ALA	GLY	R2101	E2211	S2331	L2433	A2434	R2613	E2713
E1555	E1659	PRO	ALA	ALA	SER	W2102	W2212	L2332	L2435	L2435	V2632	V2714
E1556	C1661	GLU	LYS	THR	SER	G2105	G2214	A2333	H2334	P2436	V2633	V2715
E1557	L1666	GLU	LYS	THR	SER	L2108	T2215	H2334	S2437	E2542	D2645	L2716
R1560	E1667	GLU	GLN	ASP	GLY	R2112	E2216	W2339	P2438	F2543	R2646	P2717
R1561	L1668	ALA	ALA	ASP	LEU	N2113	L2228	Q2348	P2439	P2544	V2647	A2720
R1562	L1671	GLU	ALA	LEU	GLY	V2114	K2229	Q2348	Y2442	P2551	A2648	A2721
Q1563	W1671	PRO	LEU	LEU	GLY	H2115	R2234	L2352	M2443	D2552	L2649	G2729
I1564	F1672	THR	LEU	SER	LEU	L2118	T2235	V2353	P2444	A2554	W2650	Y2730
D1578	A1674	ALA	ALA	ALA	HIS	F2119	L2236	S2354	A2445	S2555	M2651	G2731
V1579	W1679	ALA	ALA	ALA	ALA	I2122	L2237	S2354	P2446	P2556	I2652	H2735
F1580	D1684	ALA	ALA	ALA	ALA	I2122	F2238	E2358	A2447	L2557	V2653	P2736
F1581	L1686	LEU	LEU	LEU	LEU	A2123	R2244	A2359	P2448	L2558	S2662	V2737
F1582	L1687	THR	THR	THR	THR	A2124	W2245	G2360	E2449	L2563	S2666	C2740
S1583	F1687	ALA	ALA	ALA	ALA	G2126	A2246	V2361	W2450	F2567	T2667	T2742
L1586	E1690	PRO	ALA	ALA	ALA	O2127	G2247	M2372	D2452	E2574	W2672	A2743
V1590	G1694	ALA	ALA	ALA	ASP	N2128	D2248	L2376	L2453		V2673	S2746
E1598	L1695	ALA	SER	VAL	ASP	P2193	M2249		D2454		H2674	
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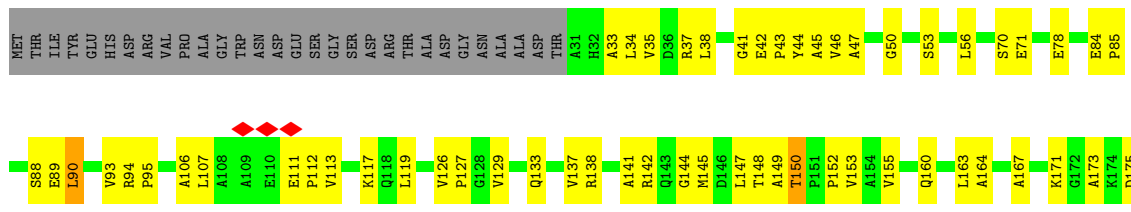


● Molecule 1: TYPE-I FATTY ACID SYNTHASE

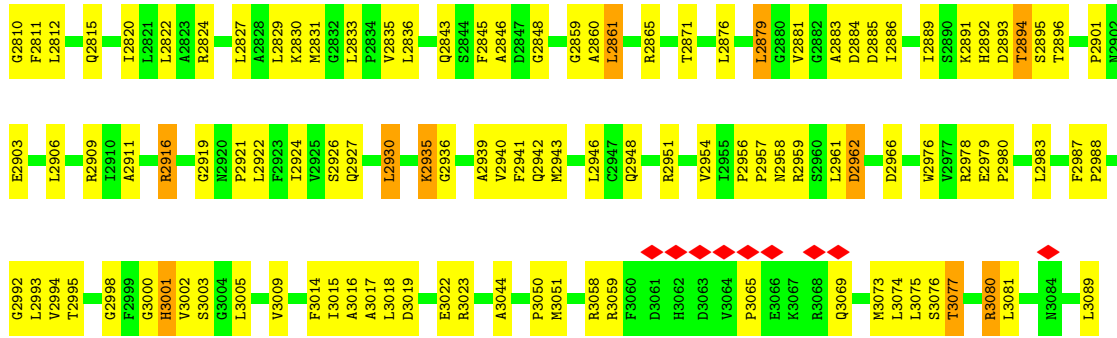




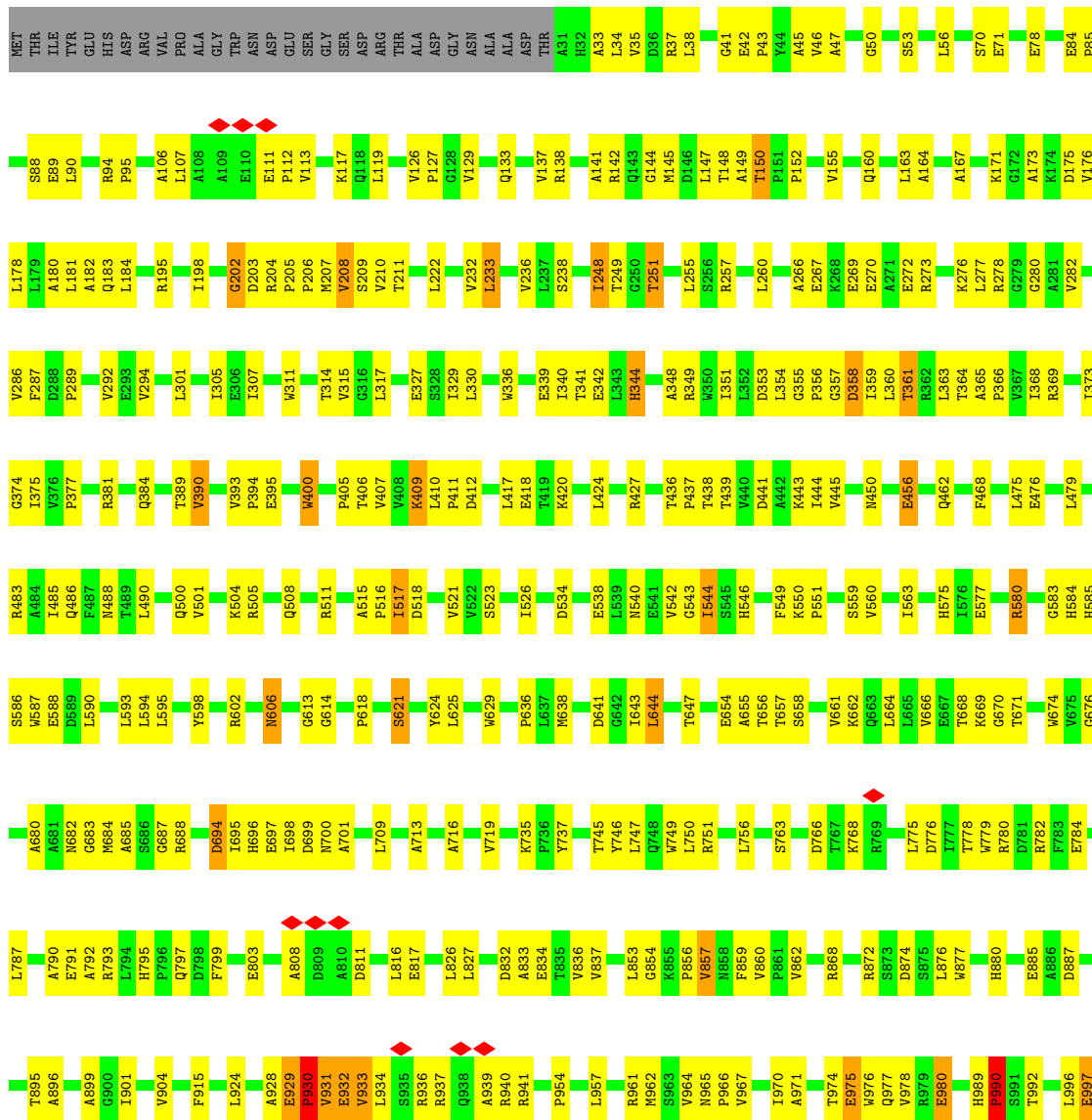
● Molecule 1: TYPE-I FATTY ACID SYNTHASE

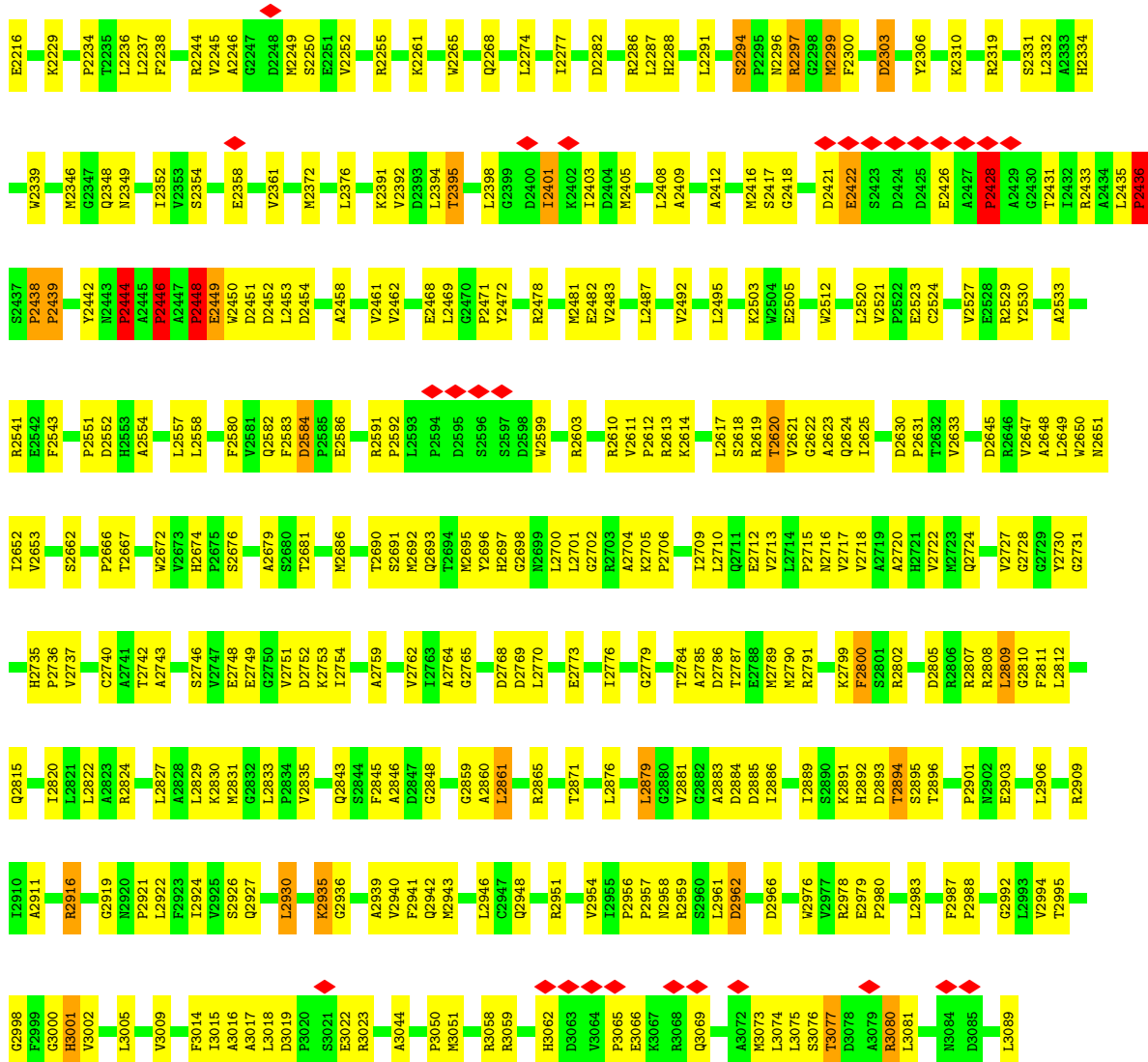


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V176	E177	L178	L179	V286	F287	A180	A181	A182	Q183	L184	R185	I188	G202	D203	R204	P205	P206	M207	V208	S209	V210	T211	L222	T231	V232	L233	V236	L237	S238	L248	T249	G250	T251	L255	S256	R257	L260	A266	E267	R268	E269	E270	A271	E272	R273	K276	L277	R278	G279	G280																																																							
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F468	L475	E476	H584	H585	S586	R483	A484	I485	Q486	F487	M488	T489	Q500	V501	K504	R505	Q508	R511	P516	I517	D518	V521	V522	S523	I526	D534	E538	L539	N540	E541	V542	G543	I544	H546	F549	K550	P551	V661	T767	K768	Q663	P770	D771	L775	H575	I576	E577	R580	G583	H584	H585	S586	W587	D589	L590	L593	L594	L595	Y598	R602	N606	G613	G614	P618	S621	Y624	L625	W629	P636	L637	M638	D641	G642	I643	L644	T647	E654	T656	T657	S658	V661	K662	Q663	L664	L665	V666	E667	T668																	
K669	G670	T671	W674	V675	G676	A680	A681	N682	G683	M684	A685	S686	G687	R688	D689	I685	H696	E697	I698	D699	N700	A701	L709	A713	A716	V719	K735	P736	Y737	T745	Y746	L747	Q748	W749	R751	L756	S763	D766	T767	K768	Q663	P770	D771	L775	H575	I576	K669	G670	T671	W674	V675	G676	A680	A681	N682	G683	M684	A685	S686	G687	R688	D689	I685	H696	E697	I698	D699	N700	A701	L709	A713	A716	V719	K735	P736	Y737	T745	Y746	L747	Q748	W749	R751	L756	S763	D766	T767	K768	Q663	P770	D771	L775	H575	I576												
T778	W779	R780	D781	R782	F783	E784	L787	A790	E791	A792	R793	L794	H795	P796	Q797	F798	D799	E803	A808	D809	A810	D811	L816	E817	L826	L827	Y830	P831	D832	A833	E834	T835	V836	V837	L853	G854	R855	P856	N857	N858	F859	V860	F861	V862	R868	R872	S873	D874	T778	W779	R780	D781	R782	F783	E784	L787	A790	E791	A792	R793	L794	H795	P796	Q797	F798	D799	E803	A808	D809	A810	D811	L816	E817	L826	L827	Y830	P831	D832	A833	E834	T835	V836	V837	L853	G854	R855	P856	N857	N858	F859	V860	F861	V862	R868	R872	S873	D874								
S875	L876	W877	H880	D881	E885	D886	D887	I892	T895	A896	A899	G900	I901	V904	F915	E916	I917	E918	E919	E920	V921	L924	A928	E929	R930	V931	E932	V933	L934	S935	R936	R937	Q938	A939	R940	R941	P954	L957	R961	M962	S963	V964	N965	P966	V967	I970	A971	T974	E975	W976	Q977	V978	S875	L876	W877	H880	D881	E885	D886	D887	I892	T895	A896	A899	G900	I901	V904	F915	E916	I917	E918	E919	E920	V921	L924	A928	E929	R930	V931	E932	V933	L934	S935	R936	R937	Q938	A939	R940	R941	P954	L957	R961	M962	S963	V964	N965	P966	V967	I970	A971	T974	E975	W976	Q977	V978
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L1096	T1097	V1098	P1099	D1100	V1103	G1104	R1105	C1106	V1110	F1111	A1117	L1118	E1120	A1121	G1122	P1124	V1125	I1126	E1127	G1128	L1129	L1132	V1133	P1146	K1147	E1148	P1149	A1150	E1151	F1152	T1162	D1163	T1164	G1167	R1168	P1171	V1172	S1173	V1174	R1177	M1178	A1179	P1286	V1287	P1288	D1181	G1182	L1184	L1096	T1097	V1098	P1099	D1100	V1103	G1104	R1105	C1106	V1110	F1111	A1117	L1118	E1120	A1121	G1122	P1124	V1125	I1126	E1127	G1128	L1129	L1132	V1133	P1146	K1147	E1148	P1149	A1150	E1151	F1152	T1162	D1163	T1164	G1167	R1168	P1171	V1172	S1173	V1174	R1177	M1178	A1179	P1286	V1287	P1288	D1181	G1182	L1184								
L1185	L1188	R1191	F1192	A1193	L1194	R1195	G1196	R1197	A1200	A1201	E1202	L1203	T1204	D1205	P1206	V1207	A1212	T1218	D1219	T1220	F1221	R1225	L1226	D1227	V1228	R1237	R1253	G1268	M1269	V1270	L1271	A1274	A1275	Q1276	H1277	V1278	T1279	A1281	T1282	D1283	G1284	K1285	P1286	V1287	P1288	D1181	G1182	L1184	L1185	L1188	R1191	F1192	A1193	L1194	R1195	G1196	R1197	A1200	A1201	E1202	L1203	T1204	D1205	P1206	V1207	A1212	T1218	D1219	T1220	F1221	R1225	L1226	D1227	V1228	R1237	R1253	G1268	M1269	V1270	L1271	A1274	A1275	Q1276	H1277	V1278	T1279	A1281	T1282	D1283	G1284	K1285	P1286	V1287	P1288	D1181	G1182	L1184								
L1292	W1295	K1304	P1413	D1414	G1415	V1309	F1310	F1311	V1312	D1313	I1314	V1315	F1316	I1317	V1318	D1319	E1323	V1324	L1325	E1326	S1328	A1329	I1331	V1336	M1337	A1338	A1339	R1342	L1343	A1344	A1346	C1346	P1346	Y1350	P1353	I1357	Q1358	M1362	V1376	A1380	D1381	H1485	H1486	I1487	V1488	P1489	A1290	K1291	L1292	W1295	K1304	P1413	D1414	G1415	V1309	F1310	F1311	V1312	D1313	I1314	V1315	F1316	I1317	V1318	D1319	E1323	V1324	L1325	E1326	S1328	A1329	I1331	V1336	M1337	A1338	A1339	R1342	L1343	A1344	A1346	C1346	P1346	Y1350	P1353	I1357	Q1358	M1362	V1376	A1380	D1381	H1485	H1486	I1487	V1488	P1489	A1290	K1291								
A1405	V1408	H1412	P1413	D1414	G1415	V1416	L1417	T1420	Q1421	F1422	T1423	Q1424	V1425	V1430	A1431	V1435	Q1441	V1445	A1448	I1449	A1450	Y1455	G1456	E1457	Y1458	T1459	A1460	L1461	A1462	C1463	V1464	V1467	Y1468	E1469	L1470	E1471	L1474	R1480	K1483	M1484	H1485	D1486	I1487	V1488	P1489	A1290	K1291	A1405	V1408	H1412	P1413	D1414	G1415	V1416	L1417	T1420	Q1421	F1422	T1423	Q1424	V1425	V1430	A1431	V1435	Q1441	V1445	A1448	I1449	A1450	Y1455	G1456	E1457	Y1458	T1459	A1460	L1461	A1462	C1463	V1464	V1467	Y1468	E1469	L1470	E1471	L1474	R1480	K1483	M1484	H1485	D1486	I1487	V1488	P1489	A1290	K1291										
D1491	E1492	R1495	S1496	N1497	T1503	R1504	P1505	Q1506	I1508	D1509	L1510	D1511	D1514	D1517	F1518	A1519	A1520	E1521	I1522	S1523	E1524	R1525	T1526	G1527	E1528	L1530	E1531	V1532	N1533	N1534	F1535	N1536	L1537	R1538	G1539	Q1540	Y1541	A1543	I1544	A1549	G1550	L1551	E1552	A1553	L1554	E1555	E1556	E1557	R1560	R1561																																																							

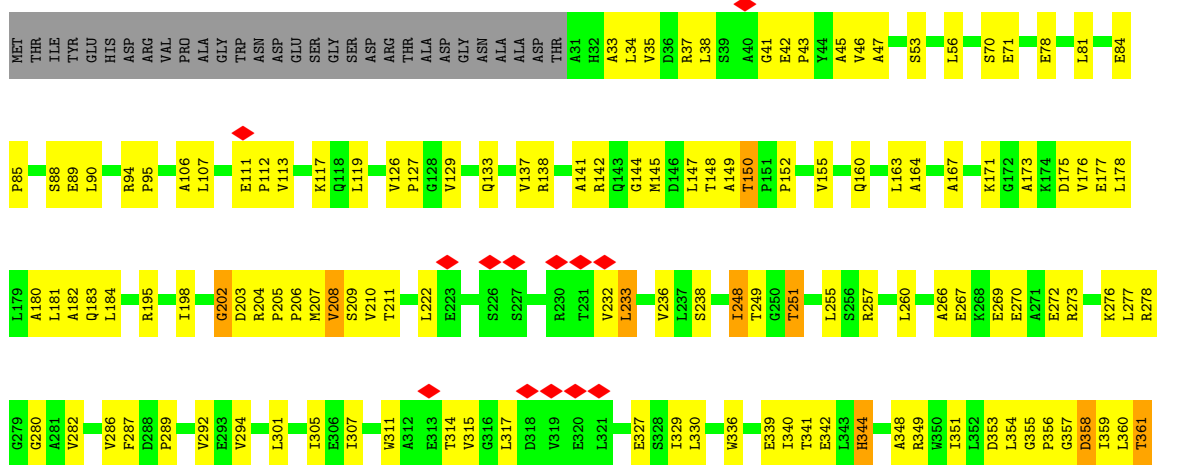


• Molecule 1: TYPE-I FATTY ACID SYNTHASE





● Molecule 1: TYPE-I FATTY ACID SYNTHASE



L1668	R1562	R1480	V1376	G1284	N1178	F1087	T974	D874	L775	I666	I563	G460	R362
W1671	Q1563	K1483	A1380	K1285	A1179	G1088	E975	S875	L776	V666	I563	G461	L363
Q1672	I1564	P1286	A1484	P1287	A1180	A1089	W976	L876	I777	E667	I563	Q462	T364
F1673	H1485	V1288	P1289	V1289	L1091	P1090	Q977	W877	T778	T668	I563	Q463	A365
A1674	D1486	P1289	P1289	P1289	L1091	A1092	W978	W978	W779	K669	I563	Q464	P366
P1580	A1290	A1183	A1183	A1183	P1093	A1092	R979	H880	G670	W679	I563	Q465	V367
F1488	K1291	L1184	L1184	L1184	T1094	T1094	E885	E885	T671	R580	I563	Q466	I368
P1489	L1292	L1185	L1185	L1185	T1094	T1094	A886	A886	W674	L475	I563	Q467	R369
R1490	L1292	L1185	L1185	L1185	T1094	T1094	D887	D887	W675	E476	I563	Q468	I373
D1491	A1405	L1188	L1188	L1188	T1097	T1097	I892	I892	G676	L479	I563	Q469	I375
E1492	S1406	R1191	R1191	R1191	V1088	V1088	T895	T895	W677	R483	I563	Q470	I376
R1495	G1407	F1192	F1192	F1192	P990	P990	A891	A891	W678	A484	I563	Q471	I377
S1496	V1408	A1193	A1193	A1193	T992	T992	A896	A896	W679	I485	I563	Q472	R381
E1503	H1412	I1194	I1194	I1194	V1103	V1103	A899	A899	W680	L485	I563	Q473	I378
R1504	P1413	R1195	R1195	R1195	R1104	R1104	A900	A900	W681	L486	I563	Q474	I379
P1505	D1414	G1196	G1196	G1196	R1105	R1105	A909	A909	W682	L487	I563	Q475	I380
S1506	D1414	V1313	V1313	V1313	C1106	C1106	I901	I901	W683	L488	I563	Q476	I381
F1507	G1415	E834	E834	E834	V1110	V1110	V904	V904	W684	L489	I563	Q477	I382
I1508	L4416	V1315	V1315	V1315	F1111	F1111	F915	F915	W685	L490	I563	Q478	I383
D1511	L4417	G1317	G1317	G1317	A1117	A1117	F797	F797	W686	L491	I563	Q479	I384
D1514	L4420	I1318	I1318	I1318	A1118	A1118	F799	F799	W687	L492	I563	Q480	I385
V1519	Q1421	D1319	D1319	D1319	T1119	T1119	E803	E803	W688	L493	I563	Q481	I386
E1524	F1422	I1321	I1321	I1321	E1120	E1120	A808	A808	W689	L494	I563	Q482	I387
R1525	T1423	V1324	V1324	V1324	F1123	F1123	D809	D809	W690	L495	I563	Q483	I388
T1526	Q1424	L1325	L1325	L1325	P1124	P1124	A810	A810	W691	L496	I563	Q484	I389
G1527	V1425	V1327	V1327	V1327	V1125	V1125	L709	L709	W692	L497	I563	Q485	I390
L1530	V1430	S1328	S1328	S1328	I1126	I1126	A713	A713	W693	L498	I563	Q486	I391
E1531	A1431	A1329	A1329	A1329	E1127	E1127	A716	A716	W694	L499	I563	Q487	I392
I1532	V1435	R1330	R1330	R1330	G1128	G1128	A719	A719	W695	L500	I563	Q488	I393
V1533	Q1441	G1332	G1332	G1332	L1132	L1132	A724	A724	W696	L501	I563	Q489	I394
F1535	V1445	S1333	S1333	S1333	V1133	V1133	A725	A725	W697	L502	I563	Q490	I395
M1536	A1448	V1336	V1336	V1336	P1146	P1146	A730	A730	W698	L503	I563	Q491	I396
L1537	T1449	M1337	M1337	M1337	K1147	K1147	A735	A735	W699	L504	I563	Q492	I397
R1538	A1450	A1338	A1338	A1338	E1148	E1148	A736	A736	W700	L505	I563	Q493	I398
G1539	A1455	A1339	A1339	A1339	P1149	P1149	A737	A737	W701	L506	I563	Q494	I399
S1540	V1455	R1342	R1342	R1342	V1025	V1025	A745	A745	W702	L507	I563	Q495	I400
Q1541	T1459	L1343	L1343	L1343	E1034	E1034	A746	A746	W703	L508	I563	Q496	I401
Y1542	A1460	A1344	A1344	A1344	V1035	V1035	A751	A751	W704	L509	I563	Q497	I402
A1543	A1462	A1345	A1345	A1345	D1036	D1036	A752	A752	W705	L510	I563	Q498	I403
I1544	L1461	P1346	P1346	P1346	D1037	D1037	A753	A753	W706	L511	I563	Q499	I404
L1551	C1463	Y1350	Y1350	Y1350	V1045	V1045	A754	A754	W707	L512	I563	Q500	I405
A1552	V1464	A1351	A1351	A1351	L1046	L1046	A755	A755	W708	L513	I563	Q501	I406
A1553	V1467	F1352	F1352	F1352	V1068	V1068	A756	A756	W709	L514	I563	Q502	I407
E1554	Y1468	P1353	P1353	P1353	T1069	T1069	A757	A757	W710	L515	I563	Q503	I408
A1555	E1469	I1357	I1357	I1357	V1070	V1070	A758	A758	W711	L516	I563	Q504	I409
E1556	L1470	Q1358	Q1358	Q1358	D1071	D1071	A759	A759	W712	L517	I563	Q505	I410
E1557	E1471	H1359	H1359	H1359	W1072	W1072	A760	A760	W713	L518	I563	Q506	I411
R1560	L1474	Q1360	Q1360	Q1360	S1173	S1173	A761	A761	W714	L519	I563	Q507	I412
E1667		G1361	G1361	G1361	V1174	V1174	A762	A762	W715	L520	I563	Q508	I413
		M1362	M1362	M1362	R1177	R1177	A763	A763	W716	L521	I563	Q509	I414
							A764	A764	W717	L522	I563	Q510	I415
							A765	A765	W718	L523	I563	Q511	I416
							A766	A766	W719	L524	I563	Q512	I417
							A767	A767	W720	L525	I563	Q513	I418
							A768	A768	W721	L526	I563	Q514	I419
							A769	A769	W722	L527	I563	Q515	I420
							A770	A770	W723	L528	I563	Q516	I421
							A771	A771	W724	L529	I563	Q517	I422
							A772	A772	W725	L530	I563	Q518	I423
							A773	A773	W726	L531	I563	Q519	I424
							A774	A774	W727	L532	I563	Q520	I425
							A775	A775	W728	L533	I563	Q521	I426
							A776	A776	W729	L534	I563	Q522	I427
							A777	A777	W730	L535	I563	Q523	I428
							A778	A778	W731	L536	I563	Q524	I429
							A779	A779	W732	L537	I563	Q525	I430
							A780	A780	W733	L538	I563	Q526	I431
							A781	A781	W734	L539	I563	Q527	I432
							A782	A782	W735	L540	I563	Q528	I433
							A783	A783	W736	L541	I563	Q529	I434
							A784	A784	W737	L542	I563	Q530	I435
							A785	A785	W738	L543	I563	Q531	I436
							A786	A786	W739	L544	I563	Q532	I437
							A787	A787	W740	L545	I563	Q533	I438
							A788	A788	W741	L546	I563	Q534	I439
							A789	A789	W742	L547	I563	Q535	I440
							A790	A790	W743	L548	I563	Q536	I441
							A791	A791	W744	L549	I563	Q537	I442
							A792	A792	W745	L550	I563	Q538	I443
							A793	A793	W746	L551	I563	Q539	I444
							A794	A794	W747	L552	I563	Q540	I445
							A795	A795	W748	L553	I563	Q541	I446
							A796	A796	W749	L554	I563	Q542	I447
							A797	A797	W750	L555	I563	Q543	I448
							A798	A798	W751	L556	I563	Q544	I449
							A799	A799	W752	L557	I563	Q545	I450
							A800	A800	W753	L558	I563	Q546	I451
							A801	A801	W754	L559	I563	Q547	I452
							A802	A802	W755	L560	I563	Q548	I453
							A803	A803	W756	L561	I563	Q549	I454
							A804	A804	W757	L562	I563	Q550	I455
							A805	A805	W758	L563	I563	Q551	I456
							A806	A806	W759	L564	I563	Q552	I457
							A807	A807	W760	L565	I563	Q553	I458
							A808	A808	W761	L566	I563	Q554	I459
							A809	A809	W762	L567	I563	Q555	I460
							A810	A810	W763	L568	I563	Q556	I461
							A811	A811	W764	L569	I563	Q557	I462</



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	9136	Depositor
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	
Minimum defocus (nm)	1800	Depositor
Maximum defocus (nm)	4500	Depositor
Magnification	59000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	9.063	Depositor
Minimum map value	-2.149	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2.0	Depositor
Map size (\AA)	456.0, 456.0, 456.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	2.28, 2.28, 2.28	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: FMN

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	B	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	C	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	D	0.41	26/18511 (0.1%)	0.50	13/25179 (0.1%)
1	E	0.39	26/21335 (0.1%)	0.51	13/29037 (0.0%)
1	F	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
All	All	0.40	160/125186 (0.1%)	0.51	78/170364 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	5
1	B	0	5
1	C	0	5
1	D	0	2
1	E	0	5
1	F	0	5
All	All	0	27

All (160) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	2442	TYR	CB-CG	-6.39	1.42	1.51
1	A	2442	TYR	CB-CG	-6.35	1.42	1.51
1	B	2442	TYR	CB-CG	-6.35	1.42	1.51
1	D	2442	TYR	CB-CG	-6.33	1.42	1.51
1	F	2442	TYR	CB-CG	-6.33	1.42	1.51
1	C	2442	TYR	CB-CG	-6.32	1.42	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	2134	TYR	CB-CG	-6.26	1.42	1.51
1	A	2134	TYR	CB-CG	-6.24	1.42	1.51
1	B	2134	TYR	CB-CG	-6.23	1.42	1.51
1	F	2134	TYR	CB-CG	-6.22	1.42	1.51
1	E	2134	TYR	CB-CG	-6.18	1.42	1.51
1	D	2134	TYR	CB-CG	-6.17	1.42	1.51
1	D	2119	PHE	CB-CG	-5.48	1.42	1.51
1	B	2119	PHE	CB-CG	-5.46	1.42	1.51
1	B	2089	PHE	CB-CG	-5.44	1.42	1.51
1	D	2089	PHE	CB-CG	-5.43	1.42	1.51
1	F	2089	PHE	CB-CG	-5.43	1.42	1.51
1	F	2119	PHE	CB-CG	-5.42	1.42	1.51
1	E	2089	PHE	CB-CG	-5.42	1.42	1.51
1	E	2119	PHE	CB-CG	-5.41	1.42	1.51
1	C	975	GLU	CB-CG	-5.40	1.41	1.52
1	C	2119	PHE	CB-CG	-5.39	1.42	1.51
1	C	2089	PHE	CB-CG	-5.38	1.42	1.51
1	F	975	GLU	CB-CG	-5.37	1.42	1.52
1	A	2119	PHE	CB-CG	-5.37	1.42	1.51
1	D	975	GLU	CB-CG	-5.36	1.42	1.52
1	B	975	GLU	CB-CG	-5.36	1.42	1.52
1	A	975	GLU	CB-CG	-5.36	1.42	1.52
1	F	2090	GLU	CB-CG	-5.36	1.42	1.52
1	C	2090	GLU	CB-CG	-5.35	1.42	1.52
1	A	2089	PHE	CB-CG	-5.35	1.42	1.51
1	A	2090	GLU	CB-CG	-5.33	1.42	1.52
1	A	2426	GLU	CB-CG	-5.33	1.42	1.52
1	D	2426	GLU	CB-CG	-5.33	1.42	1.52
1	D	2127	GLU	CB-CG	-5.32	1.42	1.52
1	D	2090	GLU	CB-CG	-5.32	1.42	1.52
1	B	2090	GLU	CB-CG	-5.32	1.42	1.52
1	E	2083	GLU	CB-CG	-5.32	1.42	1.52
1	E	975	GLU	CB-CG	-5.31	1.42	1.52
1	D	980	GLU	CB-CG	-5.31	1.42	1.52
1	E	1202	GLU	CB-CG	-5.31	1.42	1.52
1	A	2127	GLU	CB-CG	-5.30	1.42	1.52
1	B	2426	GLU	CB-CG	-5.30	1.42	1.52
1	C	932	GLU	CB-CG	-5.30	1.42	1.52
1	D	997	GLU	CB-CG	-5.29	1.42	1.52
1	B	2127	GLU	CB-CG	-5.29	1.42	1.52
1	D	1202	GLU	CB-CG	-5.29	1.42	1.52
1	C	2083	GLU	CB-CG	-5.29	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2083	GLU	CB-CG	-5.29	1.42	1.52
1	E	2090	GLU	CB-CG	-5.29	1.42	1.52
1	E	2426	GLU	CB-CG	-5.29	1.42	1.52
1	C	980	GLU	CB-CG	-5.28	1.42	1.52
1	B	2422	GLU	CB-CG	-5.28	1.42	1.52
1	F	1202	GLU	CB-CG	-5.28	1.42	1.52
1	E	932	GLU	CB-CG	-5.28	1.42	1.52
1	F	980	GLU	CB-CG	-5.28	1.42	1.52
1	F	2127	GLU	CB-CG	-5.28	1.42	1.52
1	B	997	GLU	CB-CG	-5.28	1.42	1.52
1	D	2449	GLU	CB-CG	-5.27	1.42	1.52
1	F	2426	GLU	CB-CG	-5.27	1.42	1.52
1	E	980	GLU	CB-CG	-5.27	1.42	1.52
1	E	2422	GLU	CB-CG	-5.27	1.42	1.52
1	B	932	GLU	CB-CG	-5.27	1.42	1.52
1	A	1202	GLU	CB-CG	-5.27	1.42	1.52
1	D	2083	GLU	CB-CG	-5.27	1.42	1.52
1	F	2083	GLU	CB-CG	-5.27	1.42	1.52
1	C	997	GLU	CB-CG	-5.26	1.42	1.52
1	F	932	GLU	CB-CG	-5.26	1.42	1.52
1	B	2449	GLU	CB-CG	-5.26	1.42	1.52
1	D	932	GLU	CB-CG	-5.26	1.42	1.52
1	A	2422	GLU	CB-CG	-5.26	1.42	1.52
1	A	980	GLU	CB-CG	-5.26	1.42	1.52
1	A	2449	GLU	CB-CG	-5.26	1.42	1.52
1	B	2083	GLU	CB-CG	-5.26	1.42	1.52
1	E	2127	GLU	CB-CG	-5.25	1.42	1.52
1	C	2426	GLU	CB-CG	-5.25	1.42	1.52
1	F	997	GLU	CB-CG	-5.25	1.42	1.52
1	F	2449	GLU	CB-CG	-5.25	1.42	1.52
1	B	980	GLU	CB-CG	-5.25	1.42	1.52
1	B	929	GLU	CB-CG	-5.25	1.42	1.52
1	B	1202	GLU	CB-CG	-5.24	1.42	1.52
1	E	929	GLU	CB-CG	-5.24	1.42	1.52
1	A	929	GLU	CB-CG	-5.24	1.42	1.52
1	E	997	GLU	CB-CG	-5.24	1.42	1.52
1	D	2422	GLU	CB-CG	-5.24	1.42	1.52
1	F	2422	GLU	CB-CG	-5.23	1.42	1.52
1	A	997	GLU	CB-CG	-5.23	1.42	1.52
1	C	1202	GLU	CB-CG	-5.23	1.42	1.52
1	C	2449	GLU	CB-CG	-5.23	1.42	1.52
1	E	2449	GLU	CB-CG	-5.23	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	932	GLU	CB-CG	-5.22	1.42	1.52
1	F	929	GLU	CB-CG	-5.22	1.42	1.52
1	E	998	VAL	CB-CG1	-5.21	1.41	1.52
1	C	2422	GLU	CB-CG	-5.21	1.42	1.52
1	C	2127	GLU	CB-CG	-5.21	1.42	1.52
1	C	929	GLU	CB-CG	-5.21	1.42	1.52
1	D	929	GLU	CB-CG	-5.20	1.42	1.52
1	F	998	VAL	CB-CG1	-5.20	1.42	1.52
1	A	998	VAL	CB-CG1	-5.19	1.42	1.52
1	C	998	VAL	CB-CG1	-5.17	1.42	1.52
1	D	998	VAL	CB-CG2	-5.15	1.42	1.52
1	E	933	VAL	CB-CG1	-5.15	1.42	1.52
1	B	933	VAL	CB-CG2	-5.14	1.42	1.52
1	D	1005	VAL	CB-CG1	-5.14	1.42	1.52
1	B	998	VAL	CB-CG1	-5.14	1.42	1.52
1	C	1005	VAL	CB-CG1	-5.13	1.42	1.52
1	D	933	VAL	CB-CG1	-5.13	1.42	1.52
1	F	933	VAL	CB-CG1	-5.12	1.42	1.52
1	B	2095	VAL	CB-CG2	-5.12	1.42	1.52
1	E	2095	VAL	CB-CG1	-5.12	1.42	1.52
1	D	2096	VAL	CB-CG1	-5.12	1.42	1.52
1	B	1005	VAL	CB-CG1	-5.12	1.42	1.52
1	A	1207	VAL	CB-CG2	-5.11	1.42	1.52
1	A	1005	VAL	CB-CG1	-5.11	1.42	1.52
1	C	2096	VAL	CB-CG2	-5.11	1.42	1.52
1	F	931	VAL	CB-CG1	-5.11	1.42	1.52
1	A	2096	VAL	CB-CG2	-5.11	1.42	1.52
1	B	2114	VAL	CB-CG2	-5.11	1.42	1.52
1	A	978	VAL	CB-CG1	-5.10	1.42	1.52
1	D	2114	VAL	CB-CG1	-5.10	1.42	1.52
1	E	1005	VAL	CB-CG1	-5.10	1.42	1.52
1	B	931	VAL	CB-CG1	-5.10	1.42	1.52
1	C	931	VAL	CB-CG1	-5.10	1.42	1.52
1	E	2096	VAL	CB-CG1	-5.10	1.42	1.52
1	A	2095	VAL	CB-CG2	-5.09	1.42	1.52
1	A	931	VAL	CB-CG1	-5.09	1.42	1.52
1	E	978	VAL	CB-CG1	-5.09	1.42	1.52
1	E	1207	VAL	CB-CG2	-5.09	1.42	1.52
1	F	2095	VAL	CB-CG1	-5.09	1.42	1.52
1	C	978	VAL	CB-CG1	-5.09	1.42	1.52
1	E	931	VAL	CB-CG1	-5.08	1.42	1.52
1	F	2096	VAL	CB-CG1	-5.08	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	978	VAL	CB-CG1	-5.08	1.42	1.52
1	B	2096	VAL	CB-CG1	-5.08	1.42	1.52
1	F	978	VAL	CB-CG2	-5.08	1.42	1.52
1	F	2114	VAL	CB-CG2	-5.08	1.42	1.52
1	C	1207	VAL	CB-CG2	-5.08	1.42	1.52
1	C	2095	VAL	CB-CG1	-5.08	1.42	1.52
1	F	1005	VAL	CB-CG1	-5.08	1.42	1.52
1	E	2114	VAL	CB-CG2	-5.07	1.42	1.52
1	B	1207	VAL	CB-CG1	-5.07	1.42	1.52
1	D	931	VAL	CB-CG1	-5.06	1.42	1.52
1	D	2095	VAL	CB-CG2	-5.06	1.42	1.52
1	C	2114	VAL	CB-CG2	-5.06	1.42	1.52
1	C	1008	VAL	CB-CG2	-5.06	1.42	1.52
1	D	978	VAL	CB-CG1	-5.06	1.42	1.52
1	C	1004	VAL	CB-CG1	-5.06	1.42	1.52
1	D	1004	VAL	CB-CG1	-5.05	1.42	1.52
1	D	1207	VAL	CB-CG1	-5.05	1.42	1.52
1	F	1207	VAL	CB-CG1	-5.05	1.42	1.52
1	C	933	VAL	CB-CG2	-5.05	1.42	1.52
1	B	1008	VAL	CB-CG2	-5.04	1.42	1.52
1	A	933	VAL	CB-CG1	-5.04	1.42	1.52
1	B	1004	VAL	CB-CG1	-5.04	1.42	1.52
1	A	1008	VAL	CB-CG1	-5.03	1.42	1.52
1	F	1004	VAL	CB-CG1	-5.03	1.42	1.52
1	A	2114	VAL	CB-CG2	-5.02	1.42	1.52
1	A	1004	VAL	CB-CG1	-5.02	1.42	1.52
1	E	1008	VAL	CB-CG1	-5.01	1.42	1.52
1	F	1008	VAL	CB-CG2	-5.01	1.42	1.52

All (78) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	930	PRO	N-CA-CB	6.99	111.69	103.30
1	C	930	PRO	N-CA-CB	6.98	111.68	103.30
1	F	930	PRO	N-CA-CB	6.97	111.66	103.30
1	A	930	PRO	N-CA-CB	6.96	111.66	103.30
1	D	930	PRO	N-CA-CB	6.96	111.65	103.30
1	B	930	PRO	N-CA-CB	6.96	111.65	103.30
1	F	1206	PRO	N-CA-CB	6.33	110.90	103.30
1	A	2438	PRO	N-CA-CB	6.30	110.86	103.30
1	C	1206	PRO	N-CA-CB	6.29	110.84	103.30
1	B	1206	PRO	N-CA-CB	6.29	110.84	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	1206	PRO	N-CA-CB	6.27	110.83	103.30
1	B	2438	PRO	N-CA-CB	6.26	110.82	103.30
1	D	1206	PRO	N-CA-CB	6.24	110.79	103.30
1	D	2438	PRO	N-CA-CB	6.23	110.78	103.30
1	E	2438	PRO	N-CA-CB	6.22	110.77	103.30
1	F	2438	PRO	N-CA-CB	6.21	110.75	103.30
1	A	1206	PRO	N-CA-CB	6.20	110.74	103.30
1	C	2438	PRO	N-CA-CB	6.19	110.72	103.30
1	D	2428	PRO	N-CA-CB	6.13	110.66	103.30
1	E	2444	PRO	N-CA-CB	6.12	110.65	103.30
1	A	2444	PRO	N-CA-CB	6.11	110.63	103.30
1	F	2444	PRO	N-CA-CB	6.11	110.63	103.30
1	C	2444	PRO	N-CA-CB	6.11	110.63	103.30
1	B	2444	PRO	N-CA-CB	6.10	110.62	103.30
1	B	2428	PRO	N-CA-CB	6.09	110.61	103.30
1	C	2428	PRO	N-CA-CB	6.08	110.60	103.30
1	A	2428	PRO	N-CA-CB	6.08	110.60	103.30
1	D	2444	PRO	N-CA-CB	6.08	110.59	103.30
1	E	2428	PRO	N-CA-CB	6.08	110.59	103.30
1	F	2428	PRO	N-CA-CB	6.04	110.55	103.30
1	D	2446	PRO	N-CA-CB	5.99	110.49	103.30
1	C	2439	PRO	N-CA-CB	5.99	110.49	103.30
1	B	2446	PRO	N-CA-CB	5.97	110.47	103.30
1	A	2446	PRO	N-CA-CB	5.96	110.46	103.30
1	F	2446	PRO	N-CA-CB	5.96	110.45	103.30
1	E	2446	PRO	N-CA-CB	5.95	110.44	103.30
1	D	2439	PRO	N-CA-CB	5.95	110.44	103.30
1	C	2446	PRO	N-CA-CB	5.95	110.44	103.30
1	A	2129	PRO	N-CA-CB	5.92	110.41	103.30
1	A	2439	PRO	N-CA-CB	5.91	110.39	103.30
1	C	2129	PRO	N-CA-CB	5.89	110.37	103.30
1	F	2439	PRO	N-CA-CB	5.89	110.36	103.30
1	E	2129	PRO	N-CA-CB	5.88	110.36	103.30
1	C	2448	PRO	N-CA-CB	5.88	110.36	103.30
1	E	2439	PRO	N-CA-CB	5.88	110.36	103.30
1	A	2448	PRO	N-CA-CB	5.88	110.36	103.30
1	F	2129	PRO	N-CA-CB	5.87	110.35	103.30
1	B	2439	PRO	N-CA-CB	5.87	110.35	103.30
1	D	2448	PRO	N-CA-CB	5.87	110.35	103.30
1	E	2448	PRO	N-CA-CB	5.87	110.35	103.30
1	D	2129	PRO	N-CA-CB	5.86	110.34	103.30
1	B	2129	PRO	N-CA-CB	5.86	110.33	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	2448	PRO	N-CA-CB	5.85	110.32	103.30
1	B	2448	PRO	N-CA-CB	5.85	110.32	103.30
1	A	1009	PRO	N-CA-CB	5.84	110.31	103.30
1	C	1009	PRO	N-CA-CB	5.79	110.24	103.30
1	B	990	PRO	N-CA-CB	5.78	110.24	103.30
1	E	1009	PRO	N-CA-CB	5.78	110.23	103.30
1	F	1009	PRO	N-CA-CB	5.74	110.19	103.30
1	B	1009	PRO	N-CA-CB	5.73	110.18	103.30
1	D	1009	PRO	N-CA-CB	5.73	110.17	103.30
1	D	990	PRO	N-CA-CB	5.71	110.15	103.30
1	F	990	PRO	N-CA-CB	5.70	110.14	103.30
1	A	990	PRO	N-CA-CB	5.70	110.14	103.30
1	C	990	PRO	N-CA-CB	5.70	110.14	103.30
1	E	990	PRO	N-CA-CB	5.68	110.11	103.30
1	C	1221	PRO	N-CA-CB	5.61	110.03	103.30
1	F	1221	PRO	N-CA-CB	5.61	110.03	103.30
1	D	1221	PRO	N-CA-CB	5.59	110.01	103.30
1	B	1221	PRO	N-CA-CB	5.59	110.01	103.30
1	E	1221	PRO	N-CA-CB	5.56	109.97	103.30
1	B	2436	PRO	N-CA-CB	5.55	109.95	103.30
1	E	2436	PRO	N-CA-CB	5.54	109.95	103.30
1	A	1221	PRO	N-CA-CB	5.53	109.94	103.30
1	F	2436	PRO	N-CA-CB	5.53	109.94	103.30
1	A	2436	PRO	N-CA-CB	5.51	109.92	103.30
1	D	2436	PRO	N-CA-CB	5.50	109.90	103.30
1	C	2436	PRO	N-CA-CB	5.50	109.90	103.30

There are no chirality outliers.

All (27) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1148	GLU	Peptide
1	A	150	THR	Peptide
1	A	202	GLY	Peptide
1	A	2584	ASP	Peptide
1	A	357	GLY	Peptide
1	B	1148	GLU	Peptide
1	B	150	THR	Peptide
1	B	202	GLY	Peptide
1	B	2584	ASP	Peptide
1	B	357	GLY	Peptide
1	C	1148	GLU	Peptide

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Mol	Chain	Res	Type	Group
1	C	150	THR	Peptide
1	C	202	GLY	Peptide
1	C	2584	ASP	Peptide
1	C	357	GLY	Peptide
1	D	1148	GLU	Peptide
1	D	2584	ASP	Peptide
1	E	1148	GLU	Peptide
1	E	150	THR	Peptide
1	E	202	GLY	Peptide
1	E	2584	ASP	Peptide
1	E	357	GLY	Peptide
1	F	1148	GLU	Peptide
1	F	150	THR	Peptide
1	F	202	GLY	Peptide
1	F	2584	ASP	Peptide
1	F	357	GLY	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	20945	0	20595	882	0
1	B	20945	0	20595	872	0
1	C	20945	0	20595	896	0
1	D	18171	0	17756	765	0
1	E	20945	0	20595	882	0
1	F	20945	0	20594	1028	0
2	A	31	0	19	4	0
2	B	31	0	19	4	0
2	C	31	0	19	4	0
2	D	31	0	19	4	0
2	E	31	0	19	4	0
2	F	31	0	19	4	0
All	All	123082	0	120844	4979	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 20.

All (4979) close contacts within the same asymmetric unit are listed below, sorted by their clash

magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1039:ALA:HB2	1:F:1125:VAL:CG1	1.35	1.53
1:F:958:TRP:CH2	1:F:1131:SER:OG	1.76	1.38
1:F:1385:ARG:NH1	1:F:2411:LYS:NZ	1.74	1.36
1:F:953:ALA:CB	1:F:1032:ILE:HD11	1.58	1.33
1:F:2407:GLU:O	1:F:2411:LYS:HG3	1.26	1.29
1:F:1385:ARG:HH11	1:F:2411:LYS:CE	1.46	1.28
1:F:1385:ARG:CD	1:F:2411:LYS:HZ1	1.45	1.28
1:F:953:ALA:CB	1:F:1032:ILE:CD1	2.18	1.21
1:F:513:SER:O	1:F:961:ARG:NH1	1.72	1.19
1:F:1401:THR:HG21	1:C:2286:ARG:NH2	1.57	1.19
1:F:1037:ASP:OD1	1:F:1043:ARG:HG2	1.37	1.18
1:F:1021:LEU:HD22	1:F:1034:GLU:HG3	1.27	1.16
1:F:1038:ALA:O	1:F:1125:VAL:HG12	0.99	1.16
1:F:1039:ALA:CB	1:F:1125:VAL:HG11	1.78	1.14
1:F:1038:ALA:O	1:F:1125:VAL:CG1	1.95	1.13
1:F:1394:HIS:CE1	1:C:2324:LYS:HD3	1.84	1.13
1:E:1013:THR:HG23	1:E:1014:TRP:H	1.15	1.11
1:F:1385:ARG:NH1	1:F:2411:LYS:CE	2.09	1.10
1:A:1013:THR:HG23	1:A:1014:TRP:H	1.15	1.10
1:F:1385:ARG:HD2	1:F:2411:LYS:NZ	1.66	1.09
1:F:1039:ALA:CB	1:F:1125:VAL:CG1	2.32	1.08
1:F:1385:ARG:HD2	1:F:2411:LYS:HZ1	1.18	1.07
1:F:1042:MET:O	1:F:1044:ALA:N	1.87	1.07
1:D:1013:THR:HG23	1:D:1014:TRP:H	1.15	1.07
1:C:1013:THR:HG23	1:C:1014:TRP:H	1.15	1.07
1:F:1039:ALA:HB2	1:F:1125:VAL:CB	1.83	1.07
1:A:2112:ARG:H	1:A:2115:HIS:CG	1.73	1.07
1:C:2094:HIS:CG	1:C:2096:VAL:HG22	1.90	1.06
1:F:1385:ARG:CZ	1:F:2411:LYS:NZ	2.18	1.06
1:F:953:ALA:HB3	1:F:1032:ILE:HD11	1.33	1.06
1:F:2112:ARG:H	1:F:2115:HIS:CG	1.73	1.06
1:A:2094:HIS:CG	1:A:2096:VAL:HG22	1.90	1.06
1:E:2112:ARG:H	1:E:2115:HIS:CG	1.73	1.06
1:B:2094:HIS:CG	1:B:2096:VAL:HG12	1.90	1.06
1:B:2112:ARG:H	1:B:2115:HIS:CG	1.73	1.06
1:C:2112:ARG:H	1:C:2115:HIS:CG	1.73	1.06
1:D:2094:HIS:CG	1:D:2096:VAL:HG12	1.90	1.05
1:F:1013:THR:HG23	1:F:1014:TRP:H	1.15	1.05
1:E:2094:HIS:CG	1:E:2096:VAL:HG12	1.90	1.05
1:F:1037:ASP:CG	1:F:1043:ARG:HG2	1.76	1.05
1:F:2094:HIS:CG	1:F:2096:VAL:HG12	1.90	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2112:ARG:H	1:D:2115:HIS:CG	1.73	1.04
1:F:1394:HIS:HE1	1:C:2324:LYS:CD	1.70	1.04
1:F:953:ALA:HB3	1:F:1032:ILE:CD1	1.85	1.03
1:B:1013:THR:HG23	1:B:1014:TRP:H	1.15	1.02
1:F:1035:VAL:HG12	1:F:1041:ALA:HB1	1.40	1.02
1:F:1385:ARG:HH11	1:F:2411:LYS:HE2	1.20	1.01
1:F:1394:HIS:HE1	1:C:2324:LYS:HD3	1.13	1.01
1:F:992:THR:CG2	1:F:996:LEU:CG	2.39	1.01
1:E:992:THR:CG2	1:E:996:LEU:CG	2.39	1.01
1:B:992:THR:CG2	1:B:996:LEU:CG	2.39	1.01
1:C:2433:ARG:HA	1:C:2524:CYS:HB3	1.44	1.00
1:D:992:THR:CG2	1:D:996:LEU:CG	2.39	1.00
1:F:1037:ASP:OD1	1:F:1043:ARG:CG	2.08	1.00
1:A:992:THR:CG2	1:A:996:LEU:CG	2.39	1.00
1:D:2433:ARG:HA	1:D:2524:CYS:HB3	1.44	1.00
1:C:992:THR:CG2	1:C:996:LEU:CG	2.39	1.00
1:A:2433:ARG:HA	1:A:2524:CYS:HB3	1.44	0.99
1:E:1220:THR:HG22	1:E:1221:PRO:N	1.78	0.99
1:E:2433:ARG:HA	1:E:2524:CYS:HB3	1.44	0.99
1:B:2433:ARG:HA	1:B:2524:CYS:HB3	1.44	0.99
1:D:1220:THR:HG22	1:D:1221:PRO:N	1.78	0.98
1:E:792:ALA:O	1:E:2433:ARG:CG	2.12	0.98
1:F:792:ALA:O	1:F:2433:ARG:CG	2.12	0.98
1:F:1037:ASP:HA	1:F:1039:ALA:N	1.77	0.98
1:F:2407:GLU:C	1:F:2411:LYS:HG3	1.84	0.98
1:C:792:ALA:O	1:C:2433:ARG:CG	2.12	0.98
1:D:792:ALA:O	1:D:2433:ARG:CG	2.12	0.97
1:F:1385:ARG:HH11	1:F:2411:LYS:NZ	1.42	0.97
1:A:792:ALA:O	1:A:2433:ARG:CG	2.12	0.97
1:F:2433:ARG:HA	1:F:2524:CYS:HB3	1.44	0.97
1:F:953:ALA:HB2	1:F:1032:ILE:HD11	1.46	0.97
1:F:1401:THR:HG21	1:C:2286:ARG:HH22	1.18	0.97
1:C:3080:ARG:HH11	1:C:3080:ARG:HG3	1.29	0.97
1:A:1220:THR:HG22	1:A:1221:PRO:N	1.78	0.97
1:D:407:VAL:HB	1:D:933:VAL:HG11	1.47	0.97
1:F:1220:THR:HG22	1:F:1221:PRO:N	1.78	0.97
1:F:3080:ARG:HH11	1:F:3080:ARG:HG3	1.29	0.97
1:C:1220:THR:HG22	1:C:1221:PRO:N	1.78	0.96
1:C:407:VAL:HB	1:C:933:VAL:HG21	1.47	0.96
1:F:1385:ARG:CD	1:F:2411:LYS:NZ	2.25	0.96
1:B:792:ALA:O	1:B:2433:ARG:CG	2.11	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1021:LEU:HD22	1:F:1034:GLU:CG	1.96	0.96
1:A:407:VAL:HB	1:A:933:VAL:HG11	1.47	0.96
1:F:1038:ALA:CB	1:F:1126:ILE:HA	1.95	0.95
1:A:3080:ARG:HH11	1:A:3080:ARG:HG3	1.29	0.95
1:E:992:THR:HG21	1:E:996:LEU:CG	1.97	0.95
1:E:3080:ARG:HH11	1:E:3080:ARG:HG3	1.29	0.95
1:F:1039:ALA:CB	1:F:1125:VAL:CB	2.45	0.95
1:D:3080:ARG:HG3	1:D:3080:ARG:HH11	1.29	0.95
1:C:992:THR:HG21	1:C:996:LEU:CG	1.97	0.94
1:B:3080:ARG:HH11	1:B:3080:ARG:HG3	1.29	0.94
1:D:992:THR:HG21	1:D:996:LEU:CG	1.97	0.94
1:F:1385:ARG:CZ	1:F:2411:LYS:HZ1	1.78	0.94
1:F:1385:ARG:NE	1:F:2411:LYS:HZ1	1.65	0.94
1:F:1401:THR:CG2	1:C:2286:ARG:HH22	1.81	0.94
1:F:1020:THR:H	1:F:1035:VAL:HG21	1.31	0.94
1:A:992:THR:HG21	1:A:996:LEU:CG	1.97	0.94
1:B:1220:THR:HG22	1:B:1221:PRO:N	1.77	0.94
1:E:407:VAL:HB	1:E:933:VAL:HG11	1.47	0.94
1:B:1003:HIS:CG	1:B:1004:VAL:H	1.86	0.94
1:F:992:THR:HG21	1:F:996:LEU:CG	1.97	0.93
1:F:793:ARG:O	1:F:2435:LEU:CG	2.17	0.93
1:D:793:ARG:O	1:D:2435:LEU:CG	2.17	0.93
1:A:2100:ALA:O	1:A:2103:TRP:CG	2.22	0.93
1:B:2100:ALA:O	1:B:2103:TRP:CG	2.22	0.93
1:C:2100:ALA:O	1:C:2103:TRP:CG	2.22	0.93
1:B:793:ARG:O	1:B:2435:LEU:CG	2.16	0.93
1:F:1385:ARG:HD2	1:F:2407:GLU:CD	1.89	0.93
1:B:992:THR:HG21	1:B:996:LEU:CG	1.97	0.93
1:B:1012:GLY:O	1:B:1013:THR:HG22	1.69	0.93
1:D:1012:GLY:O	1:D:1013:THR:HG22	1.69	0.93
1:D:1013:THR:HG23	1:D:1014:TRP:N	1.84	0.93
1:A:793:ARG:O	1:A:2435:LEU:CG	2.16	0.93
1:B:407:VAL:HB	1:B:933:VAL:HG21	1.47	0.93
1:E:2100:ALA:O	1:E:2103:TRP:CG	2.22	0.93
1:D:2100:ALA:O	1:D:2103:TRP:CG	2.22	0.93
1:F:1037:ASP:OD2	1:F:1043:ARG:HB2	1.69	0.93
1:C:1012:GLY:O	1:C:1013:THR:HG22	1.69	0.92
1:C:1013:THR:HG23	1:C:1014:TRP:N	1.84	0.92
1:F:2100:ALA:O	1:F:2103:TRP:CG	2.22	0.92
1:C:793:ARG:O	1:C:2435:LEU:CG	2.17	0.92
1:E:793:ARG:O	1:E:2435:LEU:CG	2.16	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:407:VAL:HB	1:F:933:VAL:HG11	1.47	0.92
1:F:1012:GLY:O	1:F:1013:THR:HG22	1.69	0.92
1:D:1003:HIS:CG	1:D:1004:VAL:H	1.86	0.92
1:F:1385:ARG:NH1	1:F:2411:LYS:HZ3	1.56	0.92
1:F:513:SER:O	1:F:961:ARG:CZ	2.18	0.92
1:C:1003:HIS:CG	1:C:1004:VAL:H	1.86	0.92
1:F:1003:HIS:CG	1:F:1004:VAL:H	1.86	0.91
1:A:1012:GLY:O	1:A:1013:THR:HG22	1.69	0.91
1:F:1013:THR:HG23	1:F:1014:TRP:N	1.84	0.91
1:F:1037:ASP:HB2	1:F:1041:ALA:HB3	1.50	0.91
1:F:1019:PHE:HE2	1:F:1034:GLU:HG2	1.35	0.91
1:F:1038:ALA:HB2	1:F:1126:ILE:HA	1.54	0.90
1:B:1013:THR:HG23	1:B:1014:TRP:N	1.84	0.90
1:E:1013:THR:HG23	1:E:1014:TRP:N	1.84	0.90
1:A:1013:THR:HG23	1:A:1014:TRP:N	1.84	0.90
1:F:1037:ASP:N	1:F:1038:ALA:HB3	1.85	0.90
1:F:959:ALA:HB1	1:F:1127:GLU:N	1.87	0.90
1:F:2407:GLU:O	1:F:2411:LYS:CG	2.19	0.89
1:E:1012:GLY:O	1:E:1013:THR:HG22	1.69	0.89
1:F:2407:GLU:HB3	1:F:2411:LYS:CE	2.02	0.89
1:F:2407:GLU:CB	1:F:2411:LYS:HE3	2.02	0.89
1:A:1003:HIS:CG	1:A:1004:VAL:H	1.86	0.89
1:E:1003:HIS:CG	1:E:1004:VAL:H	1.86	0.89
1:F:2407:GLU:HB3	1:F:2411:LYS:HE3	1.52	0.89
1:F:1039:ALA:CB	1:F:1125:VAL:HB	2.00	0.89
1:F:1039:ALA:HB2	1:F:1125:VAL:HG11	0.90	0.88
1:F:1385:ARG:HG3	1:F:2407:GLU:OE2	1.73	0.88
1:F:959:ALA:O	1:F:1126:ILE:HG12	1.75	0.87
1:C:931:VAL:HG13	1:C:934:LEU:H	1.40	0.87
1:F:1035:VAL:CG1	1:F:1041:ALA:HB1	2.04	0.86
1:E:931:VAL:HG13	1:E:934:LEU:H	1.40	0.86
1:A:931:VAL:HG13	1:A:934:LEU:H	1.40	0.86
1:B:931:VAL:HG11	1:B:933:VAL:CG2	2.06	0.86
1:F:931:VAL:HG13	1:F:934:LEU:H	1.40	0.86
1:C:2105:GLY:O	1:C:2108:LEU:CG	2.24	0.86
1:F:1385:ARG:CG	1:F:2407:GLU:OE2	2.24	0.85
1:C:931:VAL:HG11	1:C:933:VAL:CG2	2.06	0.85
1:E:2865:ARG:HD3	1:B:3077:THR:HA	1.57	0.85
1:F:2105:GLY:O	1:F:2108:LEU:CG	2.25	0.85
1:A:2105:GLY:O	1:A:2108:LEU:CG	2.24	0.85
1:D:2105:GLY:O	1:D:2108:LEU:CG	2.24	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2105:GLY:O	1:B:2108:LEU:CG	2.25	0.85
1:D:931:VAL:HG11	1:D:933:VAL:CG1	2.06	0.85
1:F:2865:ARG:HD3	1:A:3077:THR:HA	1.57	0.85
1:A:1218:THR:HG23	1:A:1441:GLN:OE1	1.77	0.85
1:C:1218:THR:HG23	1:C:1441:GLN:OE1	1.77	0.85
1:D:2865:ARG:HD3	1:C:3077:THR:HA	1.57	0.85
1:E:931:VAL:HG11	1:E:933:VAL:CG1	2.06	0.85
1:F:513:SER:O	1:F:961:ARG:CD	2.25	0.85
1:F:1037:ASP:HA	1:F:1039:ALA:H	1.42	0.85
1:E:2105:GLY:O	1:E:2108:LEU:CG	2.24	0.85
1:A:931:VAL:HG11	1:A:933:VAL:CG1	2.06	0.85
1:E:3077:THR:HA	1:B:2865:ARG:HD3	1.57	0.85
1:D:931:VAL:HG13	1:D:934:LEU:H	1.40	0.84
1:F:992:THR:HG22	1:F:996:LEU:CG	2.07	0.84
1:C:992:THR:HG22	1:C:996:LEU:CG	2.07	0.84
1:A:992:THR:HG22	1:A:996:LEU:CG	2.07	0.84
1:B:931:VAL:HG13	1:B:934:LEU:H	1.40	0.84
1:F:931:VAL:HG11	1:F:933:VAL:CG1	2.06	0.84
1:D:1218:THR:HG23	1:D:1441:GLN:OE1	1.77	0.84
1:F:1039:ALA:HB3	1:F:1125:VAL:HB	1.57	0.84
1:B:1218:THR:HG23	1:B:1441:GLN:OE1	1.77	0.84
1:B:992:THR:HG22	1:B:996:LEU:CG	2.07	0.84
1:D:3077:THR:HA	1:C:2865:ARG:HD3	1.57	0.84
1:F:1218:THR:HG23	1:F:1441:GLN:OE1	1.77	0.84
1:E:1218:THR:HG23	1:E:1441:GLN:OE1	1.77	0.84
1:F:3077:THR:HA	1:A:2865:ARG:HD3	1.57	0.83
1:A:43:PRO:HG2	1:A:348:ALA:HA	1.60	0.83
1:D:992:THR:HG22	1:D:996:LEU:CG	2.07	0.83
1:F:953:ALA:CB	1:F:1032:ILE:HD12	2.09	0.83
1:F:1385:ARG:CZ	1:F:2411:LYS:HZ3	1.86	0.83
1:F:1038:ALA:C	1:F:1125:VAL:HG12	1.98	0.83
1:E:992:THR:HG22	1:E:996:LEU:CG	2.07	0.83
1:E:43:PRO:HG2	1:E:348:ALA:HA	1.60	0.83
1:F:953:ALA:HB1	1:F:1032:ILE:HD12	1.58	0.83
1:F:1538:ARG:HH11	1:F:1722:PRO:HB3	1.43	0.83
1:B:43:PRO:HG2	1:B:348:ALA:HA	1.60	0.82
1:B:1538:ARG:HH11	1:B:1722:PRO:HB3	1.43	0.82
1:C:1538:ARG:HH11	1:C:1722:PRO:HB3	1.43	0.82
1:F:43:PRO:HG2	1:F:348:ALA:HA	1.60	0.82
1:E:2016:VAL:HG13	1:E:2020:PRO:HG3	1.62	0.82
1:B:2016:VAL:HG13	1:B:2020:PRO:HG3	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1538:ARG:HH11	1:A:1722:PRO:HB3	1.43	0.82
1:E:2730:TYR:OH	1:E:3059:ARG:NH1	2.14	0.81
1:A:2016:VAL:HG13	1:A:2020:PRO:HG3	1.62	0.81
1:A:2730:TYR:OH	1:A:3059:ARG:NH1	2.14	0.81
1:D:2016:VAL:HG13	1:D:2020:PRO:HG3	1.62	0.81
1:F:953:ALA:HB1	1:F:1032:ILE:CD1	2.10	0.81
1:B:46:VAL:HB	1:B:155:VAL:HG13	1.63	0.81
1:F:138:ARG:NH2	1:F:175:ASP:OD2	2.14	0.81
1:C:2016:VAL:HG13	1:C:2020:PRO:HG3	1.62	0.81
1:F:46:VAL:HB	1:F:155:VAL:HG13	1.63	0.81
1:B:138:ARG:NH2	1:B:175:ASP:OD2	2.14	0.81
1:C:43:PRO:HG2	1:C:348:ALA:HA	1.60	0.81
1:D:1538:ARG:HH11	1:D:1722:PRO:HB3	1.43	0.81
1:E:138:ARG:NH2	1:E:175:ASP:OD2	2.14	0.81
1:F:967:VAL:HA	1:F:970:ILE:HB	1.63	0.81
1:F:2016:VAL:HG13	1:F:2020:PRO:HG3	1.62	0.81
1:D:967:VAL:HA	1:D:970:ILE:HB	1.63	0.80
1:A:138:ARG:NH2	1:A:175:ASP:OD2	2.14	0.80
1:D:2730:TYR:OH	1:D:3059:ARG:NH1	2.14	0.80
1:E:967:VAL:HA	1:E:970:ILE:HB	1.63	0.80
1:B:967:VAL:HA	1:B:970:ILE:HB	1.63	0.80
1:C:46:VAL:HB	1:C:155:VAL:HG13	1.63	0.80
1:C:138:ARG:NH2	1:C:175:ASP:OD2	2.14	0.80
1:C:967:VAL:HA	1:C:970:ILE:HB	1.63	0.80
1:F:931:VAL:CG1	1:F:933:VAL:CG1	2.60	0.80
1:C:931:VAL:CG1	1:C:933:VAL:CG2	2.60	0.80
1:E:46:VAL:HB	1:E:155:VAL:HG13	1.63	0.80
1:F:2730:TYR:OH	1:F:3059:ARG:NH1	2.14	0.80
1:A:46:VAL:HB	1:A:155:VAL:HG13	1.63	0.80
1:B:931:VAL:CG1	1:B:933:VAL:CG2	2.60	0.80
1:E:1538:ARG:HH11	1:E:1722:PRO:HB3	1.43	0.80
1:A:931:VAL:CG1	1:A:933:VAL:CG1	2.60	0.80
1:D:931:VAL:CG1	1:D:933:VAL:CG1	2.60	0.80
1:C:2610:ARG:HH12	1:C:2700:LEU:HD11	1.47	0.80
1:E:931:VAL:CG1	1:E:933:VAL:CG1	2.60	0.80
1:C:2730:TYR:OH	1:C:3059:ARG:NH1	2.14	0.80
1:F:273:ARG:HB2	1:F:282:VAL:H	1.47	0.80
1:B:2730:TYR:OH	1:B:3059:ARG:NH1	2.14	0.80
1:B:2610:ARG:HH12	1:B:2700:LEU:HD11	1.47	0.79
1:E:931:VAL:HG11	1:E:933:VAL:HG13	1.65	0.79
1:A:967:VAL:HA	1:A:970:ILE:HB	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1220:THR:CG2	1:B:1221:PRO:N	2.46	0.79
1:F:1020:THR:H	1:F:1035:VAL:CG2	1.96	0.79
1:A:273:ARG:HB2	1:A:282:VAL:H	1.47	0.79
1:D:1220:THR:CG2	1:D:1221:PRO:N	2.46	0.79
1:F:2450:TRP:CG	1:F:3016:ALA:HB1	2.18	0.79
1:A:1220:THR:CG2	1:A:1221:PRO:N	2.46	0.79
1:A:2450:TRP:CG	1:A:3016:ALA:HB1	2.18	0.79
1:B:273:ARG:HB2	1:B:282:VAL:H	1.47	0.79
1:F:1019:PHE:CE1	1:F:1042:MET:SD	2.76	0.79
1:C:273:ARG:HB2	1:C:282:VAL:H	1.47	0.78
1:E:2610:ARG:HH12	1:E:2700:LEU:HD11	1.47	0.78
1:F:1220:THR:CG2	1:F:1221:PRO:N	2.46	0.78
1:F:2610:ARG:HH12	1:F:2700:LEU:HD11	1.47	0.78
1:D:2610:ARG:HH12	1:D:2700:LEU:HD11	1.47	0.78
1:E:2450:TRP:CG	1:E:3016:ALA:HB1	2.18	0.78
1:E:1329:ALA:HB3	1:E:1337:MET:H	1.48	0.78
1:C:2450:TRP:CG	1:C:3016:ALA:HB1	2.18	0.78
1:D:971:ALA:O	1:D:974:THR:HG22	1.84	0.78
1:A:971:ALA:O	1:A:974:THR:HG22	1.84	0.78
1:B:971:ALA:O	1:B:974:THR:HG22	1.84	0.78
1:B:2450:TRP:CG	1:B:3016:ALA:HB1	2.18	0.78
1:C:971:ALA:O	1:C:974:THR:HG22	1.84	0.78
1:F:971:ALA:O	1:F:974:THR:HG22	1.84	0.78
1:E:971:ALA:O	1:E:974:THR:HG22	1.84	0.77
1:A:2451:ASP:CG	1:A:2454:ASP:OD2	2.22	0.77
1:D:2450:TRP:CG	1:D:3016:ALA:HB1	2.18	0.77
1:F:931:VAL:HG11	1:F:933:VAL:HG13	1.65	0.77
1:F:1037:ASP:OD2	1:F:1043:ARG:CB	2.32	0.77
1:D:931:VAL:HG11	1:D:933:VAL:HG13	1.65	0.77
1:F:958:TRP:HH2	1:F:1131:SER:OG	1.61	0.77
1:A:931:VAL:CG1	1:A:933:VAL:HG13	2.15	0.77
1:B:1329:ALA:HB3	1:B:1337:MET:H	1.48	0.77
1:A:931:VAL:HG11	1:A:933:VAL:HG13	1.64	0.77
1:B:931:VAL:HG11	1:B:933:VAL:HG23	1.65	0.77
1:E:273:ARG:HB2	1:E:282:VAL:H	1.47	0.77
1:B:2451:ASP:CG	1:B:2454:ASP:OD2	2.22	0.77
1:D:2451:ASP:CG	1:D:2454:ASP:OD2	2.22	0.77
1:E:1220:THR:CG2	1:E:1221:PRO:N	2.46	0.77
1:A:1329:ALA:HB3	1:A:1337:MET:H	1.48	0.77
1:A:2610:ARG:HH12	1:A:2700:LEU:HD11	1.47	0.77
1:C:2451:ASP:CG	1:C:2454:ASP:OD2	2.22	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:931:VAL:CG1	1:C:933:VAL:HG23	2.15	0.77
1:C:2112:ARG:O	1:C:2115:HIS:CG	2.38	0.77
1:C:1220:THR:CG2	1:C:1221:PRO:N	2.46	0.76
1:E:931:VAL:CG1	1:E:933:VAL:HG13	2.15	0.76
1:F:931:VAL:CG1	1:F:933:VAL:HG13	2.15	0.76
1:C:1329:ALA:HB3	1:C:1337:MET:H	1.49	0.76
1:D:1003:HIS:CG	1:D:1004:VAL:N	2.53	0.76
1:D:2645:ASP:OD2	1:D:2691:SER:N	2.19	0.76
1:E:2451:ASP:CG	1:E:2454:ASP:OD2	2.22	0.76
1:F:1329:ALA:HB3	1:F:1337:MET:H	1.49	0.76
1:F:2451:ASP:CG	1:F:2454:ASP:OD2	2.22	0.76
1:A:2645:ASP:OD2	1:A:2691:SER:N	2.19	0.76
1:D:1695:LEU:HD23	1:E:257:ARG:HH12	1.50	0.76
1:A:257:ARG:HH12	1:C:1695:LEU:HD23	1.51	0.76
1:A:2557:LEU:O	1:A:2613:ARG:N	2.18	0.76
1:B:1003:HIS:CG	1:B:1004:VAL:N	2.53	0.76
1:E:2112:ARG:O	1:E:2115:HIS:CG	2.38	0.76
1:F:934:LEU:O	1:F:937:ARG:CG	2.34	0.76
1:F:1394:HIS:CE1	1:C:2324:LYS:NZ	2.54	0.76
1:F:1019:PHE:HE1	1:F:1042:MET:SD	2.09	0.76
1:A:1695:LEU:HD23	1:B:257:ARG:HH12	1.51	0.76
1:D:931:VAL:CG1	1:D:933:VAL:HG13	2.15	0.76
1:D:2112:ARG:O	1:D:2115:HIS:CG	2.38	0.76
1:B:1097:VAL:HB	1:B:1146:PRO:HB2	1.68	0.76
1:C:934:LEU:O	1:C:937:ARG:CG	2.34	0.76
1:E:2557:LEU:O	1:E:2613:ARG:N	2.18	0.76
1:D:1329:ALA:HB3	1:D:1337:MET:H	1.48	0.76
1:E:2645:ASP:OD2	1:E:2691:SER:N	2.19	0.76
1:A:934:LEU:O	1:A:937:ARG:CG	2.34	0.76
1:C:931:VAL:HG11	1:C:933:VAL:HG23	1.65	0.76
1:B:931:VAL:CG1	1:B:933:VAL:HG23	2.15	0.75
1:B:2112:ARG:O	1:B:2115:HIS:CG	2.38	0.75
1:D:934:LEU:O	1:D:937:ARG:CG	2.34	0.75
1:F:1035:VAL:CG1	1:F:1042:MET:HG2	2.16	0.75
1:A:2112:ARG:O	1:A:2115:HIS:CG	2.38	0.75
1:B:934:LEU:O	1:B:937:ARG:CG	2.34	0.75
1:F:1028:GLY:O	1:F:1031:PRO:HD3	1.87	0.75
1:F:2112:ARG:O	1:F:2115:HIS:CG	2.38	0.75
1:E:1695:LEU:HD23	1:F:257:ARG:HH12	1.51	0.75
1:E:934:LEU:O	1:E:937:ARG:CG	2.34	0.75
1:C:2645:ASP:OD2	1:C:2691:SER:N	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1097:VAL:HB	1:D:1146:PRO:HB2	1.68	0.75
1:A:1556:GLU:OE2	1:A:1560:ARG:NH2	2.20	0.75
1:A:1097:VAL:HB	1:A:1146:PRO:HB2	1.68	0.75
1:B:1695:LEU:HD23	1:C:257:ARG:HH12	1.50	0.75
1:E:1097:VAL:HB	1:E:1146:PRO:HB2	1.68	0.74
1:D:445:VAL:HG13	1:D:475:LEU:HD21	1.69	0.74
1:C:1097:VAL:HB	1:C:1146:PRO:HB2	1.68	0.74
1:E:33:ALA:HB2	1:E:390:VAL:HA	1.70	0.74
1:F:957:LEU:O	1:F:1034:GLU:HB3	1.87	0.74
1:F:1556:GLU:OE2	1:F:1560:ARG:NH2	2.20	0.74
1:B:2557:LEU:O	1:B:2613:ARG:N	2.18	0.74
1:C:3015:ILE:HG12	1:C:3023:ARG:HG3	1.69	0.74
1:D:3015:ILE:HG12	1:D:3023:ARG:HG3	1.69	0.74
1:E:3015:ILE:HG12	1:E:3023:ARG:HG3	1.69	0.74
1:A:33:ALA:HB2	1:A:390:VAL:HA	1.70	0.74
1:F:445:VAL:HG13	1:F:475:LEU:HD21	1.69	0.74
1:F:1097:VAL:HB	1:F:1146:PRO:HB2	1.68	0.74
1:B:1556:GLU:OE2	1:B:1560:ARG:NH2	2.20	0.74
1:C:33:ALA:HB2	1:C:390:VAL:HA	1.69	0.74
1:F:513:SER:C	1:F:961:ARG:NH1	2.40	0.74
1:F:2645:ASP:OD2	1:F:2691:SER:N	2.19	0.74
1:C:1556:GLU:OE2	1:C:1560:ARG:NH2	2.20	0.74
1:D:1556:GLU:OE2	1:D:1560:ARG:NH2	2.20	0.74
1:D:2697:HIS:HD2	1:C:2700:LEU:HD22	1.53	0.74
1:E:445:VAL:HG13	1:E:475:LEU:HD21	1.69	0.74
1:F:960:GLY:HA2	1:F:1126:ILE:HD13	1.70	0.74
1:B:3015:ILE:HG12	1:B:3023:ARG:HG3	1.69	0.74
1:E:1556:GLU:OE2	1:E:1560:ARG:NH2	2.20	0.73
1:F:1037:ASP:CG	1:F:1043:ARG:CG	2.54	0.73
1:B:445:VAL:HG13	1:B:475:LEU:HD21	1.69	0.73
1:D:2603:ARG:NH2	1:C:2612:PRO:O	2.22	0.73
1:F:2053:ALA:O	1:F:2807:ARG:NH2	2.21	0.73
1:F:2700:LEU:HD22	1:A:2697:HIS:HD2	1.53	0.73
1:A:2096:VAL:O	1:A:2099:GLN:CG	2.37	0.73
1:C:2053:ALA:O	1:C:2807:ARG:NH2	2.21	0.73
1:D:437:PRO:HG3	1:D:876:LEU:HB3	1.70	0.73
1:D:2096:VAL:O	1:D:2099:GLN:CG	2.37	0.73
1:E:1168:ARG:N	1:E:1194:ILE:O	2.21	0.73
1:E:2612:PRO:O	1:B:2603:ARG:NH2	2.22	0.73
1:F:3015:ILE:HG12	1:F:3023:ARG:HG3	1.69	0.73
1:F:2697:HIS:HD2	1:A:2700:LEU:HD22	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:445:VAL:HG13	1:A:475:LEU:HD21	1.69	0.73
1:B:2096:VAL:O	1:B:2099:GLN:CG	2.36	0.73
1:B:2645:ASP:OD2	1:B:2691:SER:N	2.19	0.73
1:F:1037:ASP:CA	1:F:1038:ALA:HB3	2.18	0.73
1:F:2883:ALA:O	1:F:2916:ARG:NH1	2.22	0.73
1:B:2883:ALA:O	1:B:2916:ARG:NH1	2.22	0.73
1:D:2612:PRO:O	1:C:2603:ARG:NH2	2.22	0.73
1:F:2096:VAL:O	1:F:2099:GLN:CG	2.36	0.73
1:C:2557:LEU:O	1:C:2613:ARG:N	2.18	0.73
1:B:2053:ALA:O	1:B:2807:ARG:NH2	2.21	0.73
1:C:437:PRO:HG3	1:C:876:LEU:HB3	1.70	0.73
1:D:2053:ALA:O	1:D:2807:ARG:NH2	2.21	0.73
1:E:2096:VAL:O	1:E:2099:GLN:CG	2.37	0.73
1:F:2557:LEU:O	1:F:2613:ARG:N	2.18	0.73
1:F:2845:PHE:HD1	1:A:2731:GLY:HA2	1.54	0.73
1:D:2557:LEU:O	1:D:2613:ARG:N	2.18	0.72
1:E:2053:ALA:O	1:E:2807:ARG:NH2	2.21	0.72
1:E:2697:HIS:HD2	1:B:2700:LEU:HD22	1.53	0.72
1:A:437:PRO:HG3	1:A:876:LEU:HB3	1.70	0.72
1:A:3015:ILE:HG12	1:A:3023:ARG:HG3	1.69	0.72
1:B:936:ARG:HB3	1:B:941:ARG:HB3	1.71	0.72
1:D:2731:GLY:HA2	1:C:2845:PHE:HD1	1.54	0.72
1:E:2883:ALA:O	1:E:2916:ARG:NH1	2.22	0.72
1:C:445:VAL:HG13	1:C:475:LEU:HD21	1.69	0.72
1:C:2096:VAL:O	1:C:2099:GLN:CG	2.37	0.72
1:D:1400:PRO:HD2	1:D:1416:VAL:HG22	1.72	0.72
1:E:1003:HIS:CG	1:E:1004:VAL:N	2.53	0.72
1:F:33:ALA:HB2	1:F:390:VAL:HA	1.70	0.72
1:B:2998:GLY:N	1:B:3002:VAL:O	2.23	0.72
1:A:2883:ALA:O	1:A:2916:ARG:NH1	2.22	0.72
1:C:936:ARG:HB3	1:C:941:ARG:HB3	1.71	0.72
1:D:1168:ARG:N	1:D:1194:ILE:O	2.21	0.72
1:E:437:PRO:HG3	1:E:876:LEU:HB3	1.70	0.72
1:E:936:ARG:HB3	1:E:941:ARG:HB3	1.71	0.72
1:E:2603:ARG:NH2	1:B:2612:PRO:O	2.22	0.72
1:F:70:SER:OG	1:F:142:ARG:NH2	2.23	0.72
1:A:2053:ALA:O	1:A:2807:ARG:NH2	2.21	0.72
1:B:437:PRO:HG3	1:B:876:LEU:HB3	1.70	0.72
1:C:2883:ALA:O	1:C:2916:ARG:NH1	2.22	0.72
1:D:1237:ARG:NH1	1:E:95:PRO:HB2	2.05	0.72
1:E:1253:ARG:HG3	1:E:1253:ARG:HH11	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1253:ARG:HH11	1:A:1253:ARG:HG3	1.55	0.72
1:A:2998:GLY:N	1:A:3002:VAL:O	2.23	0.72
1:B:1168:ARG:N	1:B:1194:ILE:O	2.21	0.72
1:F:437:PRO:HG3	1:F:876:LEU:HB3	1.70	0.72
1:F:1020:THR:N	1:F:1035:VAL:HG21	2.03	0.72
1:F:1168:ARG:N	1:F:1194:ILE:O	2.21	0.72
1:F:2103:TRP:CG	1:F:2104:GLN:N	2.58	0.72
1:F:2731:GLY:HA2	1:A:2845:PHE:HD1	1.54	0.72
1:D:2700:LEU:HD22	1:C:2697:HIS:HD2	1.53	0.72
1:D:2998:GLY:N	1:D:3002:VAL:O	2.23	0.72
1:F:936:ARG:HB3	1:F:941:ARG:HB3	1.71	0.72
1:F:1394:HIS:CE1	1:C:2324:LYS:CD	2.56	0.72
1:F:2603:ARG:NH2	1:A:2612:PRO:O	2.22	0.72
1:F:2612:PRO:O	1:A:2603:ARG:NH2	2.22	0.72
1:A:1168:ARG:N	1:A:1194:ILE:O	2.21	0.72
1:B:33:ALA:HB2	1:B:390:VAL:HA	1.69	0.72
1:C:1168:ARG:N	1:C:1194:ILE:O	2.21	0.72
1:E:2731:GLY:HA2	1:B:2845:PHE:HD1	1.54	0.72
1:E:2845:PHE:HD1	1:B:2731:GLY:HA2	1.54	0.72
1:B:1218:THR:CG2	1:B:1441:GLN:OE1	2.38	0.72
1:B:2103:TRP:CG	1:B:2104:GLN:N	2.58	0.72
1:B:2268:GLN:OE1	1:B:2319:ARG:NH1	2.23	0.72
1:D:2103:TRP:CG	1:D:2104:GLN:N	2.58	0.71
1:D:2883:ALA:O	1:D:2916:ARG:NH1	2.22	0.71
1:A:936:ARG:HB3	1:A:941:ARG:HB3	1.71	0.71
1:B:1400:PRO:HD2	1:B:1416:VAL:HG22	1.72	0.71
1:D:1218:THR:CG2	1:D:1441:GLN:OE1	2.38	0.71
1:E:2103:TRP:CG	1:E:2104:GLN:N	2.58	0.71
1:C:1218:THR:CG2	1:C:1441:GLN:OE1	2.38	0.71
1:C:2268:GLN:OE1	1:C:2319:ARG:NH1	2.23	0.71
1:C:2998:GLY:N	1:C:3002:VAL:O	2.23	0.71
1:D:2282:ASP:HB3	1:B:1390:PHE:HA	1.72	0.71
1:F:2268:GLN:OE1	1:F:2319:ARG:NH1	2.23	0.71
1:C:2103:TRP:CG	1:C:2104:GLN:N	2.58	0.71
1:E:1237:ARG:NH1	1:F:95:PRO:HB2	2.05	0.71
1:E:2700:LEU:HD22	1:B:2697:HIS:HD2	1.53	0.71
1:F:959:ALA:O	1:F:1126:ILE:CG1	2.38	0.71
1:A:95:PRO:HB2	1:C:1237:ARG:NH1	2.05	0.71
1:A:1237:ARG:NH1	1:B:95:PRO:HB2	2.05	0.71
1:B:70:SER:OG	1:B:142:ARG:NH2	2.23	0.71
1:D:2861:LEU:HD21	1:C:3075:LEU:HD23	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:3075:LEU:HD23	1:B:2861:LEU:HD21	1.72	0.71
1:C:580:ARG:HD2	1:C:614:GLY:HA3	1.72	0.71
1:E:2268:GLN:OE1	1:E:2319:ARG:NH1	2.23	0.71
1:F:2861:LEU:HD21	1:A:3075:LEU:HD23	1.72	0.71
1:A:2268:GLN:OE1	1:A:2319:ARG:NH1	2.24	0.71
1:D:1390:PHE:HA	1:B:2282:ASP:HB3	1.72	0.71
1:D:2268:GLN:OE1	1:D:2319:ARG:NH1	2.23	0.71
1:D:3075:LEU:HD23	1:C:2861:LEU:HD21	1.72	0.71
1:F:1218:THR:CG2	1:F:1441:GLN:OE1	2.38	0.71
1:F:2215:THR:HB	1:F:2229:LYS:HB2	1.73	0.71
1:F:2998:GLY:N	1:F:3002:VAL:O	2.23	0.71
1:E:1218:THR:CG2	1:E:1441:GLN:OE1	2.38	0.71
1:E:2743:ALA:HB1	1:E:2940:VAL:HG23	1.73	0.71
1:F:1385:ARG:NH1	1:F:2411:LYS:HE2	1.93	0.71
1:F:1385:ARG:HD2	1:F:2411:LYS:HZ2	1.56	0.71
1:A:2103:TRP:CG	1:A:2104:GLN:N	2.58	0.71
1:E:580:ARG:HD2	1:E:614:GLY:HA3	1.73	0.71
1:F:2743:ALA:HB1	1:F:2940:VAL:HG23	1.73	0.71
1:C:70:SER:OG	1:C:142:ARG:NH2	2.23	0.71
1:D:2845:PHE:HD1	1:C:2731:GLY:HA2	1.54	0.70
1:E:70:SER:OG	1:E:142:ARG:NH2	2.23	0.70
1:E:1507:GLN:O	1:E:1562:ARG:NH1	2.24	0.70
1:E:2998:GLY:N	1:E:3002:VAL:O	2.23	0.70
1:F:1394:HIS:CE1	1:C:2324:LYS:HZ2	2.08	0.70
1:F:2558:LEU:HG	1:F:2612:PRO:HA	1.73	0.70
1:D:580:ARG:HD2	1:D:614:GLY:HA3	1.73	0.70
1:D:1253:ARG:HH11	1:D:1253:ARG:HG3	1.55	0.70
1:D:1634:ARG:HH11	1:D:1639:ALA:H	1.39	0.70
1:E:2282:ASP:HB3	1:A:1390:PHE:HA	1.72	0.70
1:F:1507:GLN:O	1:F:1562:ARG:NH1	2.24	0.70
1:A:1400:PRO:HD2	1:A:1416:VAL:HG22	1.72	0.70
1:B:1507:GLN:O	1:B:1562:ARG:NH1	2.24	0.70
1:E:1634:ARG:HH11	1:E:1639:ALA:H	1.39	0.70
1:F:3075:LEU:HD23	1:A:2861:LEU:HD21	1.72	0.70
1:A:580:ARG:HD2	1:A:614:GLY:HA3	1.73	0.70
1:A:1507:GLN:O	1:A:1562:ARG:NH1	2.24	0.70
1:B:1253:ARG:HH11	1:B:1253:ARG:HG3	1.55	0.70
1:B:2558:LEU:HG	1:B:2612:PRO:HA	1.74	0.70
1:F:1003:HIS:CG	1:F:1004:VAL:N	2.53	0.70
1:F:1022:THR:O	1:F:1033:VAL:HB	1.91	0.70
1:F:1253:ARG:HH11	1:F:1253:ARG:HG3	1.54	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1400:PRO:HD2	1:C:1416:VAL:HG22	1.72	0.70
1:C:1507:GLN:O	1:C:1562:ARG:NH1	2.24	0.70
1:D:2860:ALA:HB3	1:D:2906:LEU:HD21	1.73	0.70
1:E:1400:PRO:HD2	1:E:1416:VAL:HG22	1.72	0.70
1:F:580:ARG:HD2	1:F:614:GLY:HA3	1.72	0.70
1:A:70:SER:OG	1:A:142:ARG:NH2	2.23	0.70
1:A:974:THR:HG21	1:A:977:GLN:HB3	1.74	0.70
1:A:1634:ARG:HH11	1:A:1639:ALA:H	1.39	0.70
1:A:2743:ALA:HB1	1:A:2940:VAL:HG23	1.73	0.70
1:C:1253:ARG:HH11	1:C:1253:ARG:HG3	1.54	0.70
1:D:936:ARG:HB3	1:D:941:ARG:HB3	1.72	0.70
1:D:1507:GLN:O	1:D:1562:ARG:NH1	2.24	0.70
1:F:2282:ASP:HB3	1:C:1390:PHE:HA	1.72	0.70
1:A:1218:THR:CG2	1:A:1441:GLN:OE1	2.38	0.70
1:B:1634:ARG:HH11	1:B:1639:ALA:H	1.39	0.70
1:C:1634:ARG:HH11	1:C:1639:ALA:H	1.39	0.70
1:D:1177:ARG:HB2	1:D:1184:LEU:HD23	1.74	0.70
1:E:1390:PHE:HA	1:A:2282:ASP:HB3	1.72	0.70
1:F:137:VAL:HG22	1:F:354:LEU:HD13	1.74	0.70
1:F:1400:PRO:HD2	1:F:1416:VAL:HG22	1.72	0.70
1:B:1237:ARG:NH1	1:C:95:PRO:HB2	2.05	0.70
1:B:2215:THR:HB	1:B:2229:LYS:HB2	1.74	0.70
1:E:2558:LEU:HG	1:E:2612:PRO:HA	1.74	0.70
1:A:2860:ALA:HB3	1:A:2906:LEU:HD21	1.73	0.70
1:B:2743:ALA:HB1	1:B:2940:VAL:HG23	1.73	0.70
1:E:1035:VAL:HG12	1:E:1037:ASP:H	1.57	0.70
1:F:1035:VAL:HG12	1:F:1041:ALA:CB	2.18	0.70
1:B:137:VAL:HG22	1:B:354:LEU:HD13	1.74	0.70
1:E:974:THR:HG21	1:E:977:GLN:HB3	1.74	0.70
1:E:2861:LEU:HD21	1:B:3075:LEU:HD23	1.72	0.69
1:F:1177:ARG:HB2	1:F:1184:LEU:HD23	1.74	0.69
1:A:2558:LEU:HG	1:A:2612:PRO:HA	1.73	0.69
1:C:2860:ALA:HB3	1:C:2906:LEU:HD21	1.73	0.69
1:E:137:VAL:HG22	1:E:354:LEU:HD13	1.74	0.69
1:E:1724:TYR:OH	1:F:267:GLU:OE2	2.07	0.69
1:D:2085:LEU:O	1:D:2088:ARG:CG	2.40	0.69
1:E:2860:ALA:HB3	1:E:2906:LEU:HD21	1.73	0.69
1:F:1012:GLY:O	1:F:1013:THR:CG2	2.41	0.69
1:A:2215:THR:HB	1:A:2229:LYS:HB2	1.74	0.69
1:B:1177:ARG:HB2	1:B:1184:LEU:HD23	1.74	0.69
1:C:2215:THR:HB	1:C:2229:LYS:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2215:THR:HB	1:D:2229:LYS:HB2	1.73	0.69
1:A:1035:VAL:HG12	1:A:1037:ASP:H	1.57	0.69
1:F:1019:PHE:CE2	1:F:1034:GLU:HG2	2.24	0.69
1:B:1035:VAL:HG12	1:B:1037:ASP:H	1.57	0.69
1:C:137:VAL:HG22	1:C:354:LEU:HD13	1.74	0.69
1:D:1046:LEU:HD13	1:D:1129:LEU:HD22	1.75	0.69
1:E:2215:THR:HB	1:E:2229:LYS:HB2	1.73	0.69
1:C:1046:LEU:HD13	1:C:1129:LEU:HD22	1.75	0.69
1:D:1035:VAL:HG12	1:D:1037:ASP:H	1.57	0.69
1:F:2860:ALA:HB3	1:F:2906:LEU:HD21	1.73	0.69
1:F:2946:LEU:HD11	1:F:2992:GLY:HA3	1.75	0.69
1:A:137:VAL:HG22	1:A:354:LEU:HD13	1.74	0.69
1:B:2647:VAL:HG22	1:B:2769:ASP:HB2	1.75	0.69
1:C:2085:LEU:O	1:C:2088:ARG:CG	2.41	0.69
1:C:2558:LEU:HG	1:C:2612:PRO:HA	1.73	0.69
1:F:513:SER:O	1:F:961:ARG:HD2	1.90	0.69
1:D:974:THR:HG21	1:D:977:GLN:HB3	1.74	0.69
1:F:3075:LEU:HD21	1:A:2909:ARG:HB3	1.75	0.69
1:A:1012:GLY:O	1:A:1013:THR:CG2	2.41	0.69
1:C:1177:ARG:HB2	1:C:1184:LEU:HD23	1.74	0.69
1:D:2647:VAL:HG22	1:D:2769:ASP:HB2	1.75	0.68
1:D:2946:LEU:HD11	1:D:2992:GLY:HA3	1.75	0.68
1:E:2085:LEU:O	1:E:2088:ARG:CG	2.41	0.68
1:F:974:THR:HG21	1:F:977:GLN:HB3	1.74	0.68
1:F:2557:LEU:HG	1:A:2702:GLY:HA3	1.76	0.68
1:B:2860:ALA:HB3	1:B:2906:LEU:HD21	1.73	0.68
1:B:2946:LEU:HD11	1:B:2992:GLY:HA3	1.75	0.68
1:C:974:THR:HG21	1:C:977:GLN:HB3	1.74	0.68
1:E:340:ILE:HD13	1:E:364:THR:HG21	1.75	0.68
1:F:1021:LEU:CD2	1:F:1034:GLU:HG3	2.14	0.68
1:F:2647:VAL:HG22	1:F:2769:ASP:HB2	1.75	0.68
1:A:1046:LEU:HD13	1:A:1129:LEU:HD22	1.75	0.68
1:C:2647:VAL:HG22	1:C:2769:ASP:HB2	1.75	0.68
1:C:2743:ALA:HB1	1:C:2940:VAL:HG23	1.73	0.68
1:E:1046:LEU:HD13	1:E:1129:LEU:HD22	1.75	0.68
1:F:1385:ARG:NH1	1:F:2411:LYS:HZ1	1.64	0.68
1:D:2558:LEU:HG	1:D:2612:PRO:HA	1.74	0.68
1:E:2909:ARG:HB3	1:B:3075:LEU:HD21	1.75	0.68
1:F:2085:LEU:O	1:F:2088:ARG:CG	2.40	0.68
1:A:1177:ARG:HB2	1:A:1184:LEU:HD23	1.74	0.68
1:B:511:ARG:HD3	1:B:543:GLY:HA3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:580:ARG:HD2	1:B:614:GLY:HA3	1.73	0.68
1:C:1035:VAL:HG12	1:C:1037:ASP:H	1.57	0.68
1:C:2946:LEU:HD11	1:C:2992:GLY:HA3	1.75	0.68
1:D:2743:ALA:HB1	1:D:2940:VAL:HG23	1.73	0.68
1:B:269:GLU:HB3	1:B:282:VAL:HA	1.76	0.68
1:B:1002:GLN:O	1:B:1003:HIS:CG	2.47	0.68
1:B:1012:GLY:O	1:B:1013:THR:CG2	2.41	0.68
1:B:2085:LEU:O	1:B:2088:ARG:CG	2.41	0.68
1:D:3075:LEU:HD21	1:C:2909:ARG:HB3	1.76	0.68
1:E:1008:VAL:HG12	1:E:1019:PHE:HB3	1.76	0.68
1:E:1177:ARG:HB2	1:E:1184:LEU:HD23	1.74	0.68
1:A:267:GLU:OE2	1:C:1724:TYR:OH	2.07	0.68
1:A:2647:VAL:HG22	1:A:2769:ASP:HB2	1.75	0.68
1:C:269:GLU:HB3	1:C:282:VAL:HA	1.75	0.68
1:D:1008:VAL:HG12	1:D:1019:PHE:HB3	1.76	0.68
1:D:2557:LEU:HG	1:C:2702:GLY:HA3	1.76	0.68
1:A:340:ILE:HD13	1:A:364:THR:HG21	1.75	0.68
1:A:2085:LEU:O	1:A:2088:ARG:CG	2.41	0.68
1:C:1008:VAL:HG22	1:C:1019:PHE:HB3	1.76	0.68
1:D:1164:THR:N	1:D:1167:GLY:O	2.25	0.68
1:D:2702:GLY:HA3	1:C:2557:LEU:HG	1.76	0.68
1:A:2946:LEU:HD11	1:A:2992:GLY:HA3	1.75	0.68
1:B:1164:THR:N	1:B:1167:GLY:O	2.25	0.68
1:C:1488:VAL:HG21	1:C:1580:PRO:HD2	1.76	0.68
1:F:1401:THR:CG2	1:C:2286:ARG:NH2	2.42	0.68
1:D:2112:ARG:N	1:D:2115:HIS:CG	2.57	0.67
1:E:2946:LEU:HD11	1:E:2992:GLY:HA3	1.75	0.67
1:F:1634:ARG:HH11	1:F:1639:ALA:H	1.39	0.67
1:A:1003:HIS:CG	1:A:1004:VAL:N	2.53	0.67
1:B:340:ILE:HD13	1:B:364:THR:HG21	1.75	0.67
1:B:1046:LEU:HD13	1:B:1129:LEU:HD22	1.75	0.67
1:D:511:ARG:HD3	1:D:543:GLY:HA3	1.76	0.67
1:D:1002:GLN:O	1:D:1003:HIS:CG	2.47	0.67
1:E:2702:GLY:HA3	1:B:2557:LEU:HG	1.76	0.67
1:F:1002:GLN:O	1:F:1003:HIS:CG	2.47	0.67
1:A:2126:ALA:O	1:A:2129:PRO:CG	2.43	0.67
1:B:931:VAL:CG1	1:B:933:VAL:HG22	2.24	0.67
1:D:1488:VAL:HG21	1:D:1580:PRO:HD2	1.76	0.67
1:E:269:GLU:HB3	1:E:282:VAL:HA	1.75	0.67
1:E:931:VAL:CG1	1:E:933:VAL:HG12	2.25	0.67
1:E:2748:GLU:HG2	1:B:2753:LYS:HZ2	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1046:LEU:HD13	1:F:1129:LEU:HD22	1.75	0.67
1:F:2081:GLN:O	1:F:2084:GLN:CG	2.43	0.67
1:C:1002:GLN:O	1:C:1003:HIS:CG	2.47	0.67
1:A:792:ALA:HA	1:A:799:PHE:HE2	1.60	0.67
1:B:974:THR:HG21	1:B:977:GLN:HB3	1.74	0.67
1:C:1003:HIS:CG	1:C:1004:VAL:N	2.53	0.67
1:C:1012:GLY:O	1:C:1013:THR:CG2	2.41	0.67
1:D:1012:GLY:O	1:D:1013:THR:CG2	2.41	0.67
1:C:340:ILE:HD13	1:C:364:THR:HG21	1.75	0.67
1:C:1164:THR:N	1:C:1167:GLY:O	2.25	0.67
1:C:2081:GLN:O	1:C:2084:GLN:CG	2.43	0.67
1:B:2126:ALA:O	1:B:2129:PRO:CG	2.43	0.67
1:C:931:VAL:CG1	1:C:933:VAL:HG22	2.25	0.67
1:D:931:VAL:CG1	1:D:933:VAL:HG12	2.25	0.67
1:E:3075:LEU:HD21	1:B:2909:ARG:HB3	1.76	0.67
1:A:1008:VAL:HG12	1:A:1019:PHE:HB3	1.76	0.67
1:F:340:ILE:HD13	1:F:364:THR:HG21	1.75	0.67
1:F:511:ARG:HD3	1:F:543:GLY:HA3	1.76	0.67
1:F:792:ALA:HA	1:F:799:PHE:HE2	1.60	0.67
1:A:269:GLU:HB3	1:A:282:VAL:HA	1.75	0.67
1:E:1002:GLN:O	1:E:1003:HIS:CG	2.47	0.67
1:E:2647:VAL:HG22	1:E:2769:ASP:HB2	1.75	0.67
1:C:1168:ARG:HB2	1:C:1197:ARG:HB2	1.77	0.67
1:D:683:GLY:HA2	1:D:700:ASN:HB2	1.77	0.66
1:D:1488:VAL:HG12	1:D:1490:ARG:NH1	2.10	0.66
1:D:3080:ARG:HH11	1:D:3080:ARG:CG	2.07	0.66
1:F:2094:HIS:CG	1:F:2096:VAL:CG1	2.75	0.66
1:C:511:ARG:HD3	1:C:543:GLY:HA3	1.76	0.66
1:D:792:ALA:HA	1:D:799:PHE:HE2	1.60	0.66
1:E:2081:GLN:O	1:E:2084:GLN:CG	2.43	0.66
1:F:269:GLU:HB3	1:F:282:VAL:HA	1.75	0.66
1:F:1008:VAL:HG22	1:F:1019:PHE:HB3	1.76	0.66
1:F:2909:ARG:HB3	1:A:3075:LEU:HD21	1.75	0.66
1:B:511:ARG:HB2	1:B:540:ASN:HB2	1.77	0.66
1:B:2081:GLN:O	1:B:2084:GLN:CG	2.43	0.66
1:C:683:GLY:HA2	1:C:700:ASN:HB2	1.78	0.66
1:C:1167:GLY:HA3	1:C:1195:ARG:HA	1.77	0.66
1:C:1358:GLN:HG2	1:C:1423:THR:HG23	1.78	0.66
1:D:1167:GLY:HA3	1:D:1195:ARG:HA	1.78	0.66
1:D:2126:ALA:O	1:D:2129:PRO:CG	2.43	0.66
1:F:511:ARG:HB2	1:F:540:ASN:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:666:VAL:HG21	1:F:904:VAL:HB	1.78	0.66
1:A:511:ARG:HD3	1:A:543:GLY:HA3	1.76	0.66
1:A:511:ARG:HB2	1:A:540:ASN:HB2	1.77	0.66
1:A:1002:GLN:O	1:A:1003:HIS:CG	2.47	0.66
1:A:1167:GLY:HA3	1:A:1195:ARG:HA	1.78	0.66
1:B:3080:ARG:HH11	1:B:3080:ARG:CG	2.07	0.66
1:C:792:ALA:HA	1:C:799:PHE:HE2	1.60	0.66
1:C:2094:HIS:CG	1:C:2096:VAL:CG2	2.75	0.66
1:C:2126:ALA:O	1:C:2129:PRO:CG	2.43	0.66
1:D:2081:GLN:O	1:D:2084:GLN:CG	2.43	0.66
1:E:1167:GLY:HA3	1:E:1195:ARG:HA	1.78	0.66
1:E:2112:ARG:N	1:E:2115:HIS:CG	2.57	0.66
1:F:1358:GLN:HG2	1:F:1423:THR:HG23	1.78	0.66
1:F:1488:VAL:HG12	1:F:1490:ARG:NH1	2.10	0.66
1:F:2112:ARG:N	1:F:2115:HIS:CG	2.57	0.66
1:A:1132:LEU:HD11	1:A:1192:PHE:HB3	1.78	0.66
1:B:35:VAL:HG11	1:B:147:LEU:HB3	1.78	0.66
1:B:666:VAL:HG21	1:B:904:VAL:HB	1.78	0.66
1:B:1008:VAL:HG22	1:B:1019:PHE:HB3	1.76	0.66
1:B:1488:VAL:HG12	1:B:1490:ARG:NH1	2.10	0.66
1:C:1488:VAL:HG12	1:C:1490:ARG:NH1	2.10	0.66
1:D:511:ARG:HB2	1:D:540:ASN:HB2	1.77	0.66
1:D:1168:ARG:HB2	1:D:1197:ARG:HB2	1.77	0.66
1:E:511:ARG:HB2	1:E:540:ASN:HB2	1.78	0.66
1:E:1164:THR:N	1:E:1167:GLY:O	2.25	0.66
1:E:2126:ALA:O	1:E:2129:PRO:CG	2.43	0.66
1:A:1488:VAL:HG21	1:A:1580:PRO:HD2	1.76	0.66
1:E:792:ALA:HA	1:E:799:PHE:HE2	1.60	0.66
1:E:1132:LEU:HD11	1:E:1192:PHE:HB3	1.78	0.66
1:E:1358:GLN:HG2	1:E:1423:THR:HG23	1.78	0.66
1:E:2679:ALA:HB3	1:E:2762:VAL:HG12	1.78	0.66
1:A:1358:GLN:HG2	1:A:1423:THR:HG23	1.78	0.66
1:A:2081:GLN:O	1:A:2084:GLN:CG	2.43	0.66
1:D:2591:ARG:HH12	1:F:2012:GLY:C	1.99	0.66
1:D:2909:ARG:HB3	1:C:3075:LEU:HD21	1.75	0.66
1:F:1412:HIS:HD2	1:F:1413:PRO:HD2	1.61	0.66
1:F:2126:ALA:O	1:F:2129:PRO:CG	2.43	0.66
1:F:2679:ALA:HB3	1:F:2762:VAL:HG12	1.78	0.66
1:A:1412:HIS:ND1	1:A:1415:GLY:O	2.26	0.66
1:A:2679:ALA:HB3	1:A:2762:VAL:HG12	1.78	0.66
1:B:1412:HIS:ND1	1:B:1415:GLY:O	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2012:GLY:C	1:E:2591:ARG:HH12	1.99	0.66
1:E:1012:GLY:O	1:E:1013:THR:CG2	2.41	0.66
1:E:1412:HIS:HD2	1:E:1413:PRO:HD2	1.61	0.66
1:E:2012:GLY:C	1:F:2591:ARG:HH12	1.99	0.66
1:E:2094:HIS:CG	1:E:2096:VAL:CG1	2.75	0.66
1:F:1084:THR:HG21	1:F:1274:ALA:HA	1.78	0.66
1:A:931:VAL:CG1	1:A:933:VAL:HG12	2.25	0.66
1:A:1084:THR:HG21	1:A:1274:ALA:HA	1.78	0.66
1:C:997:GLU:O	1:C:1009:PRO:N	2.29	0.66
1:E:997:GLU:O	1:E:1009:PRO:N	2.29	0.66
1:F:1132:LEU:HD11	1:F:1192:PHE:HB3	1.78	0.66
1:A:2112:ARG:N	1:A:2115:HIS:CG	2.57	0.66
1:D:997:GLU:O	1:D:1009:PRO:N	2.29	0.66
1:F:931:VAL:CG1	1:F:933:VAL:HG12	2.25	0.66
1:F:1488:VAL:HG21	1:F:1580:PRO:HD2	1.77	0.66
1:F:2702:GLY:HA3	1:A:2557:LEU:HG	1.76	0.66
1:A:997:GLU:O	1:A:1009:PRO:N	2.29	0.66
1:B:997:GLU:O	1:B:1009:PRO:N	2.29	0.66
1:B:1132:LEU:HD11	1:B:1192:PHE:HB3	1.78	0.66
1:C:1412:HIS:HD2	1:C:1413:PRO:HD2	1.60	0.66
1:E:1084:THR:HG21	1:E:1274:ALA:HA	1.78	0.65
1:F:683:GLY:HA2	1:F:700:ASN:HB2	1.78	0.65
1:B:1167:GLY:HA3	1:B:1195:ARG:HA	1.78	0.65
1:E:511:ARG:HD3	1:E:543:GLY:HA3	1.76	0.65
1:E:666:VAL:HG21	1:E:904:VAL:HB	1.78	0.65
1:A:1168:ARG:HB2	1:A:1197:ARG:HB2	1.77	0.65
1:B:1084:THR:HG21	1:B:1274:ALA:HA	1.78	0.65
1:B:2112:ARG:N	1:B:2115:HIS:CG	2.57	0.65
1:B:2679:ALA:HB3	1:B:2762:VAL:HG12	1.78	0.65
1:C:1536:ASN:HA	1:C:1679:TRP:HB3	1.78	0.65
1:C:3080:ARG:HH11	1:C:3080:ARG:CG	2.07	0.65
1:D:450:ASN:HA	1:D:483:ARG:HH11	1.62	0.65
1:E:203:ASP:OD1	1:E:204:ARG:N	2.29	0.65
1:E:1488:VAL:HG12	1:E:1490:ARG:NH1	2.10	0.65
1:E:2876:LEU:HD11	1:E:2886:ILE:HD11	1.79	0.65
1:F:997:GLU:O	1:F:1009:PRO:N	2.29	0.65
1:B:683:GLY:HA2	1:B:700:ASN:HB2	1.78	0.65
1:B:1168:ARG:HB2	1:B:1197:ARG:HB2	1.77	0.65
1:C:2706:PRO:HG2	1:C:2709:ILE:HG23	1.79	0.65
1:D:643:ILE:HD12	1:D:915:PHE:HZ	1.62	0.65
1:E:1534:ASN:HB2	1:E:1543:ALA:HB3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2557:LEU:HG	1:B:2702:GLY:HA3	1.76	0.65
1:E:2706:PRO:HG2	1:E:2709:ILE:HG23	1.79	0.65
1:F:1534:ASN:HB2	1:F:1543:ALA:HB3	1.79	0.65
1:A:643:ILE:HD12	1:A:915:PHE:HZ	1.62	0.65
1:B:792:ALA:HA	1:B:799:PHE:HE2	1.60	0.65
1:C:1534:ASN:HB2	1:C:1543:ALA:HB3	1.79	0.65
1:C:2876:LEU:HD11	1:C:2886:ILE:HD11	1.79	0.65
1:D:2876:LEU:HD11	1:D:2886:ILE:HD11	1.79	0.65
1:E:1168:ARG:HB2	1:E:1197:ARG:HB2	1.77	0.65
1:E:1536:ASN:HA	1:E:1679:TRP:HB3	1.78	0.65
1:A:203:ASP:OD1	1:A:204:ARG:N	2.29	0.65
1:A:1536:ASN:HA	1:A:1679:TRP:HB3	1.79	0.65
1:A:2591:ARG:HH12	1:C:2012:GLY:C	1.99	0.65
1:C:203:ASP:OD1	1:C:204:ARG:N	2.30	0.65
1:D:1358:GLN:HG2	1:D:1423:THR:HG23	1.78	0.65
1:E:683:GLY:HA2	1:E:700:ASN:HB2	1.78	0.65
1:F:1168:ARG:HB2	1:F:1197:ARG:HB2	1.77	0.65
1:A:929:GLU:O	1:A:930:PRO:CG	2.45	0.65
1:A:1488:VAL:HG12	1:A:1490:ARG:NH1	2.10	0.65
1:A:2876:LEU:HD11	1:A:2886:ILE:HD11	1.79	0.65
1:B:203:ASP:OD1	1:B:204:ARG:N	2.30	0.65
1:B:1534:ASN:HB2	1:B:1543:ALA:HB3	1.78	0.65
1:D:1132:LEU:HD11	1:D:1192:PHE:HB3	1.78	0.65
1:D:1534:ASN:HB2	1:D:1543:ALA:HB3	1.78	0.65
1:E:643:ILE:HD12	1:E:915:PHE:HZ	1.62	0.65
1:A:56:LEU:HD22	1:A:119:LEU:HD13	1.79	0.65
1:A:1534:ASN:HB2	1:A:1543:ALA:HB3	1.78	0.65
1:A:2652:ILE:HG12	1:A:2722:VAL:HG22	1.79	0.65
1:B:2012:GLY:C	1:C:2591:ARG:HH12	1.99	0.65
1:C:35:VAL:HG11	1:C:147:LEU:HB3	1.77	0.65
1:C:1084:THR:HG21	1:C:1274:ALA:HA	1.78	0.65
1:D:1084:THR:HG21	1:D:1274:ALA:HA	1.78	0.65
1:F:450:ASN:HA	1:F:483:ARG:HH11	1.62	0.65
1:F:929:GLU:O	1:F:930:PRO:CG	2.45	0.65
1:F:1167:GLY:HA3	1:F:1195:ARG:HA	1.77	0.65
1:A:2094:HIS:CG	1:A:2096:VAL:CG2	2.75	0.65
1:A:2252:VAL:HA	1:A:2255:ARG:HE	1.62	0.65
1:A:2706:PRO:HG2	1:A:2709:ILE:HG23	1.78	0.65
1:B:643:ILE:HD12	1:B:915:PHE:HZ	1.62	0.65
1:C:511:ARG:HB2	1:C:540:ASN:HB2	1.77	0.65
1:D:929:GLU:O	1:D:930:PRO:CG	2.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2706:PRO:HG2	1:D:2709:ILE:HG23	1.78	0.65
1:E:450:ASN:HA	1:E:483:ARG:HH11	1.62	0.65
1:A:35:VAL:HG11	1:A:147:LEU:HB3	1.78	0.65
1:B:1358:GLN:HG2	1:B:1423:THR:HG23	1.78	0.65
1:E:35:VAL:HG11	1:E:147:LEU:HB3	1.78	0.65
1:F:56:LEU:HD22	1:F:119:LEU:HD13	1.79	0.65
1:A:1164:THR:N	1:A:1167:GLY:O	2.25	0.65
1:B:450:ASN:HA	1:B:483:ARG:HH11	1.62	0.65
1:C:2652:ILE:HG12	1:C:2722:VAL:HG22	1.79	0.65
1:F:35:VAL:HG11	1:F:147:LEU:HB3	1.78	0.64
1:A:450:ASN:HA	1:A:483:ARG:HH11	1.62	0.64
1:A:683:GLY:HA2	1:A:700:ASN:HB2	1.77	0.64
1:A:1412:HIS:HD2	1:A:1413:PRO:HD2	1.61	0.64
1:A:2012:GLY:C	1:B:2591:ARG:HH12	1.99	0.64
1:B:793:ARG:HD3	1:B:2435:LEU:CG	2.27	0.64
1:B:1488:VAL:HG21	1:B:1580:PRO:HD2	1.77	0.64
1:D:2652:ILE:HG12	1:D:2722:VAL:HG22	1.79	0.64
1:D:2679:ALA:HB3	1:D:2762:VAL:HG12	1.78	0.64
1:E:1488:VAL:HG21	1:E:1580:PRO:HD2	1.77	0.64
1:F:42:GLU:HB3	1:F:349:ARG:HG3	1.79	0.64
1:F:793:ARG:HD3	1:F:2435:LEU:CG	2.27	0.64
1:F:2876:LEU:HD11	1:F:2886:ILE:HD11	1.79	0.64
1:B:42:GLU:HB3	1:B:349:ARG:HG3	1.79	0.64
1:B:929:GLU:O	1:B:930:PRO:CG	2.45	0.64
1:F:203:ASP:OD1	1:F:204:ARG:N	2.29	0.64
1:F:1164:THR:N	1:F:1167:GLY:O	2.25	0.64
1:A:666:VAL:HG21	1:A:904:VAL:HB	1.78	0.64
1:A:793:ARG:HD3	1:A:2435:LEU:CG	2.27	0.64
1:B:56:LEU:HD22	1:B:119:LEU:HD13	1.79	0.64
1:C:666:VAL:HG21	1:C:904:VAL:HB	1.78	0.64
1:C:793:ARG:HD3	1:C:2435:LEU:CG	2.27	0.64
1:C:1412:HIS:ND1	1:C:1415:GLY:O	2.26	0.64
1:D:666:VAL:HG21	1:D:904:VAL:HB	1.78	0.64
1:E:2252:VAL:HA	1:E:2255:ARG:HE	1.62	0.64
1:E:2652:ILE:HG12	1:E:2722:VAL:HG22	1.79	0.64
1:E:1417:LEU:O	1:E:1423:THR:OG1	2.14	0.64
1:C:450:ASN:HA	1:C:483:ARG:HH11	1.62	0.64
1:D:793:ARG:HD3	1:D:2435:LEU:CG	2.28	0.64
1:D:2094:HIS:CG	1:D:2096:VAL:CG1	2.75	0.64
1:E:929:GLU:O	1:E:930:PRO:CG	2.45	0.64
1:B:1412:HIS:HD2	1:B:1413:PRO:HD2	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:929:GLU:O	1:C:930:PRO:CG	2.45	0.64
1:D:1412:HIS:HD2	1:D:1413:PRO:HD2	1.61	0.64
1:F:643:ILE:HD12	1:F:915:PHE:HZ	1.62	0.64
1:C:1132:LEU:HD11	1:C:1192:PHE:HB3	1.78	0.64
1:C:2252:VAL:HA	1:C:2255:ARG:HE	1.62	0.64
1:D:2252:VAL:HA	1:D:2255:ARG:HE	1.62	0.64
1:E:34:LEU:O	1:E:38:LEU:N	2.25	0.64
1:F:2176:LEU:HG	1:F:2180:LYS:HE3	1.80	0.64
1:B:2176:LEU:HG	1:B:2180:LYS:HE3	1.80	0.64
1:C:56:LEU:HD22	1:C:119:LEU:HD13	1.79	0.64
1:C:643:ILE:HD12	1:C:915:PHE:HZ	1.62	0.64
1:C:2679:ALA:HB3	1:C:2762:VAL:HG12	1.78	0.64
1:D:500:GLN:O	1:D:504:LYS:N	2.24	0.64
1:E:803:GLU:OE1	1:E:2431:THR:HG22	1.98	0.64
1:A:42:GLU:HB3	1:A:349:ARG:HG3	1.79	0.64
1:A:803:GLU:OE1	1:A:2431:THR:HG22	1.98	0.64
1:B:2252:VAL:HA	1:B:2255:ARG:HE	1.62	0.64
1:C:42:GLU:HB3	1:C:349:ARG:HG3	1.79	0.64
1:E:56:LEU:HD22	1:E:119:LEU:HD13	1.78	0.63
1:E:3073:MET:O	1:B:2865:ARG:NH2	2.32	0.63
1:F:1536:ASN:HA	1:F:1679:TRP:HB3	1.78	0.63
1:C:360:LEU:HD12	1:C:363:LEU:HD23	1.80	0.63
1:D:1536:ASN:HA	1:D:1679:TRP:HB3	1.79	0.63
1:E:892:ILE:HG22	2:E:4000:FMN:HM82	1.80	0.63
1:F:2706:PRO:HG2	1:F:2709:ILE:HG23	1.79	0.63
1:F:3073:MET:O	1:A:2865:ARG:NH2	2.32	0.63
1:B:2094:HIS:CG	1:B:2096:VAL:CG1	2.75	0.63
1:F:2865:ARG:NH2	1:A:3073:MET:O	2.32	0.63
1:A:1622:PRO:HD3	1:A:1685:LEU:HD11	1.81	0.63
1:B:1072:TRP:NE1	1:B:1077:VAL:HG22	2.14	0.63
1:B:1417:LEU:O	1:B:1423:THR:OG1	2.14	0.63
1:B:1536:ASN:HA	1:B:1679:TRP:HB3	1.79	0.63
1:B:2706:PRO:HG2	1:B:2709:ILE:HG23	1.79	0.63
1:B:2876:LEU:HD11	1:B:2886:ILE:HD11	1.79	0.63
1:C:2173:ASP:OD2	1:C:2799:LYS:NZ	2.32	0.63
1:E:500:GLN:O	1:E:504:LYS:N	2.24	0.63
1:E:1315:ARG:HH21	1:E:1323:GLU:HG2	1.64	0.63
1:E:1622:PRO:HD3	1:E:1685:LEU:HD11	1.81	0.63
1:F:957:LEU:O	1:F:1034:GLU:CB	2.46	0.63
1:F:2652:ILE:HG12	1:F:2722:VAL:HG22	1.79	0.63
1:A:939:ALA:O	1:A:940:ARG:CG	2.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2297:ARG:H	1:A:2297:ARG:HD3	1.64	0.63
1:B:939:ALA:O	1:B:940:ARG:CG	2.47	0.63
1:B:2554:ALA:HB1	1:B:2614:LYS:HZ2	1.62	0.63
1:C:2112:ARG:N	1:C:2115:HIS:CG	2.57	0.63
1:E:585:HIS:CD2	1:E:586:SER:H	2.17	0.63
1:E:974:THR:CG2	1:E:977:GLN:HB3	2.29	0.63
1:E:2948:GLN:HG2	1:E:2951:ARG:HH21	1.64	0.63
1:F:2297:ARG:H	1:F:2297:ARG:HD3	1.64	0.63
1:A:974:THR:CG2	1:A:977:GLN:HB3	2.29	0.63
1:B:750:LEU:HD12	1:B:827:LEU:HD11	1.81	0.63
1:B:2092:THR:HA	1:B:2189:PHE:HB2	1.81	0.63
1:C:803:GLU:OE1	1:C:2431:THR:HG22	1.98	0.63
1:C:974:THR:CG2	1:C:977:GLN:HB3	2.29	0.63
1:D:803:GLU:OE1	1:D:2431:THR:HG22	1.98	0.63
1:D:939:ALA:O	1:D:940:ARG:CG	2.47	0.63
1:D:974:THR:CG2	1:D:977:GLN:HB3	2.29	0.63
1:D:3073:MET:O	1:C:2865:ARG:NH2	2.32	0.63
1:E:1072:TRP:NE1	1:E:1077:VAL:HG22	2.14	0.63
1:E:2297:ARG:HD3	1:E:2297:ARG:H	1.64	0.63
1:E:2865:ARG:NH2	1:B:3073:MET:O	2.32	0.63
1:E:3080:ARG:HH11	1:E:3080:ARG:CG	2.07	0.63
1:F:974:THR:CG2	1:F:977:GLN:HB3	2.29	0.63
1:F:1042:MET:O	1:F:1043:ARG:C	2.37	0.63
1:F:1376:VAL:HA	1:F:1470:LEU:HD13	1.81	0.63
1:F:2092:THR:HA	1:F:2189:PHE:HB2	1.81	0.63
1:F:2752:ASP:HB3	1:A:2752:ASP:HB3	1.81	0.63
1:B:585:HIS:CD2	1:B:586:SER:H	2.17	0.63
1:B:1315:ARG:HH21	1:B:1323:GLU:HG2	1.64	0.63
1:C:939:ALA:O	1:C:940:ARG:CG	2.47	0.63
1:D:1072:TRP:NE1	1:D:1077:VAL:HG22	2.14	0.63
1:D:2096:VAL:HG13	1:D:2097:ALA:N	2.14	0.63
1:E:793:ARG:HD3	1:E:2435:LEU:CG	2.27	0.63
1:E:939:ALA:O	1:E:940:ARG:CG	2.47	0.63
1:E:1376:VAL:HA	1:E:1470:LEU:HD13	1.81	0.63
1:F:803:GLU:OE1	1:F:2431:THR:HG22	1.98	0.63
1:F:1622:PRO:HD3	1:F:1685:LEU:HD11	1.81	0.63
1:F:2047:THR:OG1	1:F:2205:ASP:OD2	2.17	0.63
1:A:2086:SER:O	1:A:2089:PHE:CG	2.52	0.63
1:A:2092:THR:HA	1:A:2189:PHE:HB2	1.81	0.63
1:B:1095:LEU:HD12	1:B:1096:THR:H	1.64	0.63
1:B:2047:THR:OG1	1:B:2205:ASP:OD2	2.17	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1376:VAL:HA	1:D:1470:LEU:HD13	1.81	0.63
1:E:1702:GLU:OE2	1:E:1711:VAL:HG13	1.99	0.63
1:E:2096:VAL:HG13	1:E:2097:ALA:N	2.14	0.63
1:E:2176:LEU:HG	1:E:2180:LYS:HE3	1.80	0.63
1:F:750:LEU:HD12	1:F:827:LEU:HD11	1.81	0.63
1:F:1412:HIS:ND1	1:F:1415:GLY:O	2.26	0.63
1:F:2252:VAL:HA	1:F:2255:ARG:HE	1.62	0.63
1:A:2092:THR:HG23	1:A:2092:THR:O	1.99	0.63
1:B:664:LEU:HD13	1:B:701:ALA:HB1	1.81	0.63
1:D:2865:ARG:NH2	1:C:3073:MET:O	2.32	0.62
1:E:360:LEU:HD12	1:E:363:LEU:HD23	1.80	0.62
1:E:932:GLU:O	1:E:936:ARG:CG	2.48	0.62
1:F:585:HIS:CD2	1:F:586:SER:H	2.17	0.62
1:F:1072:TRP:NE1	1:F:1077:VAL:HG22	2.14	0.62
1:F:2086:SER:O	1:F:2089:PHE:CG	2.52	0.62
1:A:892:ILE:HG22	2:A:4000:FMN:HM82	1.80	0.62
1:A:1315:ARG:HH21	1:A:1323:GLU:HG2	1.64	0.62
1:A:3080:ARG:HH11	1:A:3080:ARG:CG	2.07	0.62
1:B:974:THR:CG2	1:B:977:GLN:HB3	2.29	0.62
1:B:1376:VAL:HA	1:B:1470:LEU:HD13	1.81	0.62
1:B:2086:SER:O	1:B:2089:PHE:CG	2.52	0.62
1:B:2173:ASP:OD2	1:B:2799:LYS:NZ	2.32	0.62
1:B:2297:ARG:HD3	1:B:2297:ARG:H	1.64	0.62
1:B:2652:ILE:HG12	1:B:2722:VAL:HG22	1.79	0.62
1:D:2047:THR:OG1	1:D:2205:ASP:OD2	2.17	0.62
1:D:2173:ASP:OD2	1:D:2799:LYS:NZ	2.32	0.62
1:E:42:GLU:HB3	1:E:349:ARG:HG3	1.79	0.62
1:E:2092:THR:HA	1:E:2189:PHE:HB2	1.81	0.62
1:A:585:HIS:CD2	1:A:586:SER:H	2.17	0.62
1:C:1072:TRP:NE1	1:C:1077:VAL:HG22	2.14	0.62
1:C:1315:ARG:HH21	1:C:1323:GLU:HG2	1.64	0.62
1:E:238:SER:OG	1:E:249:THR:OG1	2.16	0.62
1:E:1095:LEU:HD12	1:E:1096:THR:H	1.64	0.62
1:F:34:LEU:O	1:F:38:LEU:N	2.25	0.62
1:F:892:ILE:HG22	2:F:4000:FMN:HM82	1.80	0.62
1:A:1072:TRP:NE1	1:A:1077:VAL:HG22	2.14	0.62
1:A:2096:VAL:HG23	1:A:2097:ALA:N	2.14	0.62
1:A:2173:ASP:OD2	1:A:2799:LYS:NZ	2.32	0.62
1:B:803:GLU:OE1	1:B:2431:THR:HG22	1.98	0.62
1:B:2948:GLN:HG2	1:B:2951:ARG:HH21	1.64	0.62
1:C:1376:VAL:HA	1:C:1470:LEU:HD13	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:585:HIS:CD2	1:D:586:SER:H	2.17	0.62
1:D:892:ILE:HG22	2:D:4000:FMN:HM82	1.80	0.62
1:E:2092:THR:HG23	1:E:2092:THR:O	1.99	0.62
1:B:3080:ARG:HG3	1:B:3080:ARG:NH1	2.09	0.62
1:D:750:LEU:HD12	1:D:827:LEU:HD11	1.81	0.62
1:D:1095:LEU:HD12	1:D:1096:THR:H	1.64	0.62
1:D:2092:THR:HA	1:D:2189:PHE:HB2	1.81	0.62
1:D:2948:GLN:HG2	1:D:2951:ARG:HH21	1.64	0.62
1:F:932:GLU:O	1:F:936:ARG:CG	2.48	0.62
1:F:2096:VAL:HG13	1:F:2097:ALA:N	2.14	0.62
1:F:2765:GLY:HA2	1:F:2940:VAL:HG21	1.82	0.62
1:A:360:LEU:HD12	1:A:363:LEU:HD23	1.80	0.62
1:B:932:GLU:O	1:B:936:ARG:CG	2.47	0.62
1:B:1431:ALA:HB3	1:B:1459:THR:HG21	1.82	0.62
1:B:1702:GLU:OE2	1:B:1711:VAL:HG13	1.99	0.62
1:C:892:ILE:HG22	2:C:4000:FMN:HM82	1.80	0.62
1:C:1095:LEU:HD12	1:C:1096:THR:H	1.64	0.62
1:C:1417:LEU:O	1:C:1423:THR:OG1	2.14	0.62
1:D:1315:ARG:HH21	1:D:1323:GLU:HG2	1.64	0.62
1:D:2176:LEU:HG	1:D:2180:LYS:HE3	1.80	0.62
1:D:2297:ARG:HD3	1:D:2297:ARG:H	1.64	0.62
1:A:1417:LEU:O	1:A:1423:THR:OG1	2.14	0.62
1:B:360:LEU:HD12	1:B:363:LEU:HD23	1.80	0.62
1:C:238:SER:OG	1:C:249:THR:OG1	2.15	0.62
1:C:932:GLU:O	1:C:936:ARG:CG	2.48	0.62
1:C:2237:LEU:HB2	1:C:2287:LEU:HD11	1.82	0.62
1:D:932:GLU:O	1:D:936:ARG:CG	2.48	0.62
1:D:1417:LEU:O	1:D:1423:THR:OG1	2.14	0.62
1:D:2086:SER:O	1:D:2089:PHE:CG	2.52	0.62
1:E:2173:ASP:OD2	1:E:2799:LYS:NZ	2.32	0.62
1:E:2610:ARG:HB2	1:B:2558:LEU:HD21	1.82	0.62
1:F:2407:GLU:CG	1:F:2411:LYS:HE3	2.29	0.62
1:A:2176:LEU:HG	1:A:2180:LYS:HE3	1.80	0.62
1:B:892:ILE:HG22	2:B:4000:FMN:HM82	1.80	0.62
1:B:2092:THR:O	1:B:2092:THR:HG23	1.99	0.62
1:B:2765:GLY:HA2	1:B:2940:VAL:HG21	1.82	0.62
1:F:939:ALA:O	1:F:940:ARG:CG	2.47	0.62
1:F:971:ALA:O	1:F:974:THR:CG2	2.48	0.62
1:F:2948:GLN:HG2	1:F:2951:ARG:HH21	1.64	0.62
1:A:1353:PRO:HG3	1:A:1702:GLU:OE2	2.00	0.62
1:B:1622:PRO:HD3	1:B:1685:LEU:HD11	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2092:THR:HG23	1:C:2092:THR:O	1.99	0.62
1:D:971:ALA:O	1:D:974:THR:CG2	2.48	0.62
1:D:2092:THR:HG23	1:D:2092:THR:O	1.99	0.62
1:D:2237:LEU:HB2	1:D:2287:LEU:HD11	1.82	0.62
1:E:664:LEU:HD13	1:E:701:ALA:HB1	1.81	0.62
1:E:1695:LEU:CD2	1:F:257:ARG:HH12	2.13	0.62
1:F:2173:ASP:OD2	1:F:2799:LYS:NZ	2.32	0.62
1:A:971:ALA:O	1:A:974:THR:CG2	2.48	0.62
1:A:1702:GLU:OE2	1:A:1711:VAL:HG13	1.99	0.62
1:B:1725:SER:HB3	1:C:260:LEU:HD13	1.82	0.62
1:C:2086:SER:O	1:C:2089:PHE:CG	2.52	0.62
1:C:2176:LEU:HG	1:C:2180:LYS:HE3	1.80	0.62
1:A:1431:ALA:HB3	1:A:1459:THR:HG21	1.82	0.62
1:C:971:ALA:O	1:C:974:THR:CG2	2.48	0.62
1:C:2047:THR:OG1	1:C:2205:ASP:OD2	2.17	0.62
1:D:1622:PRO:HD3	1:D:1685:LEU:HD11	1.81	0.61
1:D:2752:ASP:HB3	1:C:2752:ASP:HB3	1.81	0.61
1:E:750:LEU:HD12	1:E:827:LEU:HD11	1.81	0.61
1:E:1431:ALA:HB3	1:E:1459:THR:HG21	1.82	0.61
1:F:2092:THR:HG23	1:F:2092:THR:O	1.99	0.61
1:A:260:LEU:HD13	1:C:1725:SER:HB3	1.82	0.61
1:A:1725:SER:HB3	1:B:260:LEU:HD13	1.82	0.61
1:B:2237:LEU:HB2	1:B:2287:LEU:HD11	1.82	0.61
1:C:924:LEU:O	1:C:929:GLU:N	2.30	0.61
1:D:409:LYS:HD2	1:D:933:VAL:HA	1.82	0.61
1:F:360:LEU:HD12	1:F:363:LEU:HD23	1.80	0.61
1:A:34:LEU:H	1:A:393:VAL:HG21	1.65	0.61
1:A:932:GLU:O	1:A:936:ARG:CG	2.48	0.61
1:A:1695:LEU:CD2	1:B:257:ARG:HH12	2.13	0.61
1:A:2047:THR:OG1	1:A:2205:ASP:OD2	2.17	0.61
1:B:971:ALA:O	1:B:974:THR:CG2	2.48	0.61
1:C:585:HIS:CD2	1:C:586:SER:H	2.17	0.61
1:C:1622:PRO:HD3	1:C:1685:LEU:HD11	1.81	0.61
1:C:1702:GLU:OE2	1:C:1711:VAL:HG13	1.99	0.61
1:C:2469:LEU:HD11	1:C:2653:VAL:HB	1.82	0.61
1:C:3058:ARG:HB2	1:C:3089:LEU:HB2	1.82	0.61
1:D:664:LEU:HD13	1:D:701:ALA:HB1	1.81	0.61
1:D:1725:SER:HB3	1:E:260:LEU:HD13	1.82	0.61
1:D:2765:GLY:HA2	1:D:2940:VAL:HG21	1.82	0.61
1:D:3058:ARG:HB2	1:D:3089:LEU:HB2	1.82	0.61
1:E:2086:SER:O	1:E:2089:PHE:CG	2.53	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:924:LEU:O	1:F:929:GLU:N	2.30	0.61
1:F:1353:PRO:HG3	1:F:1702:GLU:OE2	2.00	0.61
1:B:680:ALA:HA	1:B:685:ALA:HB2	1.83	0.61
1:B:1695:LEU:CD2	1:C:257:ARG:HH12	2.13	0.61
1:B:2096:VAL:HG13	1:B:2097:ALA:N	2.14	0.61
1:C:106:ALA:HB1	1:C:112:PRO:HB2	1.82	0.61
1:C:409:LYS:HD2	1:C:933:VAL:HA	1.82	0.61
1:C:511:ARG:HH11	1:C:543:GLY:HA3	1.65	0.61
1:C:1353:PRO:HG3	1:C:1702:GLU:OE2	2.00	0.61
1:D:680:ALA:HA	1:D:685:ALA:HB2	1.83	0.61
1:E:203:ASP:O	1:E:205:PRO:HD3	2.01	0.61
1:E:2558:LEU:HD21	1:B:2610:ARG:HB2	1.82	0.61
1:F:664:LEU:HD13	1:F:701:ALA:HB1	1.81	0.61
1:F:1315:ARG:HH21	1:F:1323:GLU:HG2	1.64	0.61
1:F:3058:ARG:HB2	1:F:3089:LEU:HB2	1.82	0.61
1:A:257:ARG:HH12	1:C:1695:LEU:CD2	2.13	0.61
1:A:1095:LEU:HD12	1:A:1096:THR:H	1.64	0.61
1:B:3058:ARG:HB2	1:B:3089:LEU:HB2	1.82	0.61
1:C:203:ASP:O	1:C:205:PRO:HD3	2.01	0.61
1:C:680:ALA:HA	1:C:685:ALA:HB2	1.83	0.61
1:C:750:LEU:HD12	1:C:827:LEU:HD11	1.81	0.61
1:C:2765:GLY:HA2	1:C:2940:VAL:HG21	1.82	0.61
1:C:2948:GLN:HG2	1:C:2951:ARG:HH21	1.64	0.61
1:E:1725:SER:HB3	1:F:260:LEU:HD13	1.82	0.61
1:E:2047:THR:OG1	1:E:2205:ASP:OD2	2.17	0.61
1:F:2237:LEU:HB2	1:F:2287:LEU:HD11	1.82	0.61
1:F:2558:LEU:HD21	1:A:2610:ARG:HB2	1.82	0.61
1:A:2948:GLN:HG2	1:A:2951:ARG:HH21	1.64	0.61
1:B:203:ASP:O	1:B:205:PRO:HD3	2.01	0.61
1:C:2297:ARG:H	1:C:2297:ARG:HD3	1.64	0.61
1:D:1353:PRO:HG3	1:D:1702:GLU:OE2	2.00	0.61
1:E:2237:LEU:HB2	1:E:2287:LEU:HD11	1.82	0.61
1:E:2752:ASP:HB3	1:B:2752:ASP:HB3	1.81	0.61
1:F:34:LEU:H	1:F:393:VAL:HG21	1.65	0.61
1:F:164:ALA:HA	1:F:178:LEU:HD13	1.82	0.61
1:A:438:THR:HA	1:A:880:HIS:HE1	1.66	0.61
1:C:2092:THR:HA	1:C:2189:PHE:HB2	1.81	0.61
1:C:2096:VAL:HG23	1:C:2097:ALA:N	2.14	0.61
1:D:2212:TRP:HA	1:D:2229:LYS:HD3	1.83	0.61
1:E:924:LEU:O	1:E:929:GLU:N	2.30	0.61
1:E:1353:PRO:HG3	1:E:1702:GLU:OE2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2765:GLY:HA2	1:E:2940:VAL:HG21	1.82	0.61
1:F:203:ASP:O	1:F:205:PRO:HD3	2.00	0.61
1:F:409:LYS:HD2	1:F:933:VAL:HA	1.82	0.61
1:F:680:ALA:HA	1:F:685:ALA:HB2	1.83	0.61
1:F:1702:GLU:OE2	1:F:1711:VAL:HG13	1.99	0.61
1:A:664:LEU:HD13	1:A:701:ALA:HB1	1.81	0.61
1:A:2469:LEU:HD11	1:A:2653:VAL:HB	1.83	0.61
1:A:2962:ASP:OD1	1:A:2962:ASP:N	2.34	0.61
1:B:34:LEU:O	1:B:38:LEU:N	2.25	0.61
1:B:34:LEU:H	1:B:393:VAL:HG21	1.65	0.61
1:B:438:THR:HA	1:B:880:HIS:HE1	1.66	0.61
1:B:2334:HIS:HD2	1:B:2391:LYS:HG3	1.66	0.61
1:C:488:ASN:HA	1:C:521:VAL:HB	1.83	0.61
1:C:664:LEU:HD13	1:C:701:ALA:HB1	1.81	0.61
1:C:2212:TRP:HA	1:C:2229:LYS:HD3	1.83	0.61
1:E:575:HIS:HD2	1:E:644:LEU:HD22	1.66	0.61
1:E:2212:TRP:HA	1:E:2229:LYS:HD3	1.83	0.61
1:F:961:ARG:HE	1:F:1196:GLY:N	1.97	0.61
1:A:511:ARG:HH11	1:A:543:GLY:HA3	1.65	0.61
1:B:126:VAL:HG12	1:B:182:ALA:HB1	1.83	0.61
1:B:1353:PRO:HG3	1:B:1702:GLU:OE2	2.00	0.61
1:C:438:THR:HA	1:C:880:HIS:HE1	1.66	0.61
1:C:980:GLU:HB2	1:C:989:HIS:HB2	1.83	0.61
1:D:2469:LEU:HD11	1:D:2653:VAL:HB	1.82	0.61
1:D:2558:LEU:HD21	1:C:2610:ARG:HB2	1.82	0.61
1:A:575:HIS:HD2	1:A:644:LEU:HD22	1.66	0.61
1:A:750:LEU:HD12	1:A:827:LEU:HD11	1.81	0.61
1:A:2212:TRP:HA	1:A:2229:LYS:HD3	1.83	0.61
1:C:1431:ALA:HB3	1:C:1459:THR:HG21	1.82	0.61
1:C:2372:MET:HB3	1:C:2394:LEU:HD22	1.83	0.61
1:D:438:THR:HA	1:D:880:HIS:HE1	1.66	0.61
1:D:488:ASN:HA	1:D:521:VAL:HB	1.83	0.61
1:D:1412:HIS:ND1	1:D:1415:GLY:O	2.26	0.61
1:D:1702:GLU:OE2	1:D:1711:VAL:HG13	1.99	0.61
1:E:164:ALA:HA	1:E:178:LEU:HD13	1.82	0.61
1:E:438:THR:HA	1:E:880:HIS:HE1	1.66	0.61
1:E:488:ASN:HA	1:E:521:VAL:HB	1.83	0.61
1:E:971:ALA:O	1:E:974:THR:CG2	2.48	0.61
1:F:1532:ILE:HA	1:F:1544:ILE:HG12	1.83	0.61
1:F:2610:ARG:HB2	1:A:2558:LEU:HD21	1.82	0.61
1:F:2647:VAL:HA	1:F:2650:TRP:HD1	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:203:ASP:O	1:A:205:PRO:HD3	2.01	0.61
1:A:488:ASN:HA	1:A:521:VAL:HB	1.83	0.61
1:A:1376:VAL:HA	1:A:1470:LEU:HD13	1.81	0.61
1:A:3058:ARG:HB2	1:A:3089:LEU:HB2	1.82	0.61
1:B:106:ALA:HB1	1:B:112:PRO:HB2	1.82	0.61
1:B:511:ARG:HH11	1:B:543:GLY:HA3	1.65	0.61
1:D:980:GLU:HB2	1:D:989:HIS:HB2	1.83	0.60
1:E:3058:ARG:HB2	1:E:3089:LEU:HB2	1.82	0.60
1:F:126:VAL:HG12	1:F:182:ALA:HB1	1.83	0.60
1:A:164:ALA:HA	1:A:178:LEU:HD13	1.83	0.60
1:A:1989:PHE:HD1	1:A:1992:LYS:HZ3	1.49	0.60
1:A:2112:ARG:CG	1:A:2114:VAL:HG22	2.31	0.60
1:B:575:HIS:HD2	1:B:644:LEU:HD22	1.66	0.60
1:B:980:GLU:HB2	1:B:989:HIS:HB2	1.83	0.60
1:C:2712:GLU:HA	1:C:2717:VAL:HG11	1.83	0.60
1:D:511:ARG:HH11	1:D:543:GLY:HA3	1.66	0.60
1:D:575:HIS:HD2	1:D:644:LEU:HD22	1.66	0.60
1:D:924:LEU:O	1:D:929:GLU:N	2.30	0.60
1:D:2610:ARG:HB2	1:C:2558:LEU:HD21	1.82	0.60
1:E:687:GLY:O	1:E:695:ILE:N	2.34	0.60
1:E:980:GLU:HB2	1:E:989:HIS:HB2	1.83	0.60
1:F:980:GLU:HB2	1:F:989:HIS:HB2	1.83	0.60
1:F:1095:LEU:HD12	1:F:1096:THR:H	1.64	0.60
1:F:1417:LEU:O	1:F:1423:THR:OG1	2.14	0.60
1:A:924:LEU:O	1:A:929:GLU:N	2.30	0.60
1:A:2765:GLY:HA2	1:A:2940:VAL:HG21	1.82	0.60
1:D:1098:VAL:HG12	1:D:1100:ASP:H	1.66	0.60
1:D:2749:GLU:OE2	1:C:2749:GLU:HB3	2.02	0.60
1:E:580:ARG:HG2	1:E:590:LEU:HD21	1.83	0.60
1:F:575:HIS:HD2	1:F:644:LEU:HD22	1.66	0.60
1:F:1431:ALA:HB3	1:F:1459:THR:HG21	1.81	0.60
1:F:3080:ARG:HH11	1:F:3080:ARG:CG	2.07	0.60
1:A:2372:MET:HB3	1:A:2394:LEU:HD22	1.83	0.60
1:C:164:ALA:HA	1:C:178:LEU:HD13	1.82	0.60
1:C:1098:VAL:HG12	1:C:1100:ASP:H	1.66	0.60
1:D:2686:MET:HE1	1:D:2935:LYS:HG3	1.83	0.60
1:E:2372:MET:HB3	1:E:2394:LEU:HD22	1.83	0.60
1:F:580:ARG:HG2	1:F:590:LEU:HD21	1.83	0.60
1:F:2334:HIS:HD2	1:F:2391:LYS:HG3	1.66	0.60
1:F:2431:THR:O	1:F:2431:THR:HG23	2.01	0.60
1:A:580:ARG:HG2	1:A:590:LEU:HD21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1724:TYR:OH	1:B:267:GLU:OE2	2.07	0.60
1:C:687:GLY:O	1:C:695:ILE:N	2.34	0.60
1:C:1532:ILE:HA	1:C:1544:ILE:HG12	1.83	0.60
1:C:2431:THR:O	1:C:2431:THR:HG23	2.01	0.60
1:D:688:ARG:O	1:D:872:ARG:NE	2.34	0.60
1:D:1695:LEU:CD2	1:E:257:ARG:HH12	2.13	0.60
1:D:2112:ARG:CG	1:D:2114:VAL:HG12	2.31	0.60
1:E:409:LYS:HD2	1:E:933:VAL:HA	1.82	0.60
1:E:1412:HIS:ND1	1:E:1415:GLY:O	2.26	0.60
1:E:1537:LEU:HB2	1:E:1541:GLN:H	1.67	0.60
1:F:511:ARG:HH11	1:F:543:GLY:HA3	1.66	0.60
1:F:2372:MET:HB3	1:F:2394:LEU:HD22	1.83	0.60
1:A:2056:PHE:HZ	1:A:2180:LYS:HE2	1.67	0.60
1:A:2712:GLU:HA	1:A:2717:VAL:HG11	1.83	0.60
1:B:500:GLN:O	1:B:504:LYS:N	2.24	0.60
1:C:2647:VAL:HA	1:C:2650:TRP:HD1	1.66	0.60
1:E:2056:PHE:HZ	1:E:2180:LYS:HE2	1.67	0.60
1:E:2334:HIS:HD2	1:E:2391:LYS:HG3	1.66	0.60
1:E:2431:THR:HG23	1:E:2431:THR:O	2.01	0.60
1:F:106:ALA:HB1	1:F:112:PRO:HB2	1.82	0.60
1:F:1020:THR:N	1:F:1035:VAL:CG2	2.59	0.60
1:F:2800:PHE:HE1	1:F:2812:LEU:HD22	1.67	0.60
1:A:409:LYS:HD2	1:A:933:VAL:HA	1.82	0.60
1:A:2237:LEU:HB2	1:A:2287:LEU:HD11	1.82	0.60
1:B:409:LYS:HD2	1:B:933:VAL:HA	1.82	0.60
1:B:1532:ILE:HA	1:B:1544:ILE:HG12	1.83	0.60
1:B:2431:THR:HG23	1:B:2431:THR:O	2.01	0.60
1:D:1431:ALA:HB3	1:D:1459:THR:HG21	1.82	0.60
1:D:2334:HIS:HD2	1:D:2391:LYS:HG3	1.66	0.60
1:E:2712:GLU:HA	1:E:2717:VAL:HG11	1.83	0.60
1:E:2749:GLU:OE2	1:B:2749:GLU:HB3	2.02	0.60
1:E:2820:ILE:HD13	1:E:2943:MET:HG2	1.84	0.60
1:A:980:GLU:HB2	1:A:989:HIS:HB2	1.83	0.60
1:A:1537:LEU:HB2	1:A:1541:GLN:H	1.67	0.60
1:B:2372:MET:HB3	1:B:2394:LEU:HD22	1.83	0.60
1:C:2800:PHE:HE1	1:C:2812:LEU:HD22	1.67	0.60
1:D:670:GLY:O	1:D:682:ASN:ND2	2.35	0.60
1:D:1532:ILE:HA	1:D:1544:ILE:HG12	1.83	0.60
1:D:2431:THR:HG23	1:D:2431:THR:O	2.01	0.60
1:E:106:ALA:HB1	1:E:112:PRO:HB2	1.82	0.60
1:E:2647:VAL:HA	1:E:2650:TRP:HD1	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2686:MET:HE1	1:E:2935:LYS:HG3	1.84	0.60
1:F:2056:PHE:HZ	1:F:2180:LYS:HE2	1.67	0.60
1:A:106:ALA:HB1	1:A:112:PRO:HB2	1.82	0.60
1:A:1309:VAL:HG22	1:A:1331:ILE:HG12	1.84	0.60
1:A:1532:ILE:HA	1:A:1544:ILE:HG12	1.83	0.60
1:B:164:ALA:HA	1:B:178:LEU:HD13	1.82	0.60
1:B:670:GLY:O	1:B:682:ASN:ND2	2.35	0.60
1:B:2800:PHE:HE1	1:B:2812:LEU:HD22	1.67	0.60
1:C:34:LEU:H	1:C:393:VAL:HG21	1.65	0.60
1:C:1537:LEU:HB2	1:C:1541:GLN:H	1.67	0.60
1:E:670:GLY:O	1:E:682:ASN:ND2	2.35	0.60
1:E:2469:LEU:HD11	1:E:2653:VAL:HB	1.82	0.60
1:F:2469:LEU:HD11	1:F:2653:VAL:HB	1.82	0.60
1:F:2693:GLN:O	1:F:2697:HIS:ND1	2.33	0.60
1:B:688:ARG:O	1:B:872:ARG:NE	2.34	0.60
1:B:1098:VAL:HG12	1:B:1100:ASP:H	1.66	0.60
1:C:1435:VAL:HG11	1:C:1463:CYS:HB3	1.84	0.60
1:C:2112:ARG:CG	1:C:2114:VAL:HG22	2.31	0.60
1:D:1701:VAL:HG22	1:D:1732:LEU:HB2	1.84	0.60
1:A:680:ALA:HA	1:A:685:ALA:HB2	1.83	0.60
1:A:687:GLY:O	1:A:695:ILE:N	2.34	0.60
1:B:2469:LEU:HD11	1:B:2653:VAL:HB	1.83	0.60
1:C:688:ARG:O	1:C:872:ARG:NE	2.34	0.60
1:C:1701:VAL:HG22	1:C:1732:LEU:HB2	1.84	0.60
1:C:1989:PHE:HD1	1:C:1992:LYS:HZ3	1.50	0.60
1:D:1435:VAL:HG11	1:D:1463:CYS:HB3	1.84	0.59
1:D:2800:PHE:HE1	1:D:2812:LEU:HD22	1.67	0.59
1:E:34:LEU:H	1:E:393:VAL:HG21	1.65	0.59
1:E:1309:VAL:HG22	1:E:1331:ILE:HG12	1.84	0.59
1:F:410:LEU:HB3	1:F:1025:VAL:HG21	1.84	0.59
1:F:1701:VAL:HG22	1:F:1732:LEU:HB2	1.84	0.59
1:F:2651:ASN:HD22	1:F:2718:VAL:HG12	1.67	0.59
1:A:238:SER:OG	1:A:249:THR:OG1	2.15	0.59
1:A:795:HIS:HB3	1:A:799:PHE:CZ	2.37	0.59
1:A:2461:VAL:HG11	1:A:2751:VAL:HG22	1.84	0.59
1:B:580:ARG:HG2	1:B:590:LEU:HD21	1.83	0.59
1:B:2112:ARG:CG	1:B:2114:VAL:HG22	2.31	0.59
1:B:2651:ASN:HD22	1:B:2718:VAL:HG12	1.67	0.59
1:C:126:VAL:HG12	1:C:182:ALA:HB1	1.83	0.59
1:C:410:LEU:HB3	1:C:1025:VAL:HG21	1.84	0.59
1:D:580:ARG:HG2	1:D:590:LEU:HD21	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2056:PHE:HZ	1:D:2180:LYS:HE2	1.67	0.59
1:E:795:HIS:HB3	1:E:799:PHE:CZ	2.37	0.59
1:F:2712:GLU:HA	1:F:2717:VAL:HG11	1.83	0.59
1:A:2647:VAL:HA	1:A:2650:TRP:HD1	1.66	0.59
1:B:410:LEU:HB3	1:B:1025:VAL:HG21	1.84	0.59
1:B:836:VAL:HG12	1:B:837:VAL:H	1.67	0.59
1:C:34:LEU:O	1:C:38:LEU:N	2.25	0.59
1:C:795:HIS:HB3	1:C:799:PHE:CZ	2.37	0.59
1:C:2056:PHE:HZ	1:C:2180:LYS:HE2	1.67	0.59
1:C:2651:ASN:HD22	1:C:2718:VAL:HG12	1.67	0.59
1:C:2686:MET:HE1	1:C:2935:LYS:HG3	1.84	0.59
1:D:2651:ASN:HD22	1:D:2718:VAL:HG12	1.67	0.59
1:E:680:ALA:HA	1:E:685:ALA:HB2	1.83	0.59
1:F:438:THR:HA	1:F:880:HIS:HE1	1.66	0.59
1:F:488:ASN:HA	1:F:521:VAL:HB	1.83	0.59
1:F:670:GLY:O	1:F:682:ASN:ND2	2.35	0.59
1:F:1098:VAL:HG12	1:F:1100:ASP:H	1.67	0.59
1:F:2667:THR:HG21	1:F:3058:ARG:NH1	2.17	0.59
1:A:2431:THR:HG23	1:A:2431:THR:O	2.01	0.59
1:B:2212:TRP:HA	1:B:2229:LYS:HD3	1.83	0.59
1:B:2962:ASP:OD1	1:B:2962:ASP:N	2.34	0.59
1:C:836:VAL:HG12	1:C:837:VAL:H	1.67	0.59
1:D:2753:LYS:NZ	1:C:2752:ASP:OD2	2.36	0.59
1:E:2112:ARG:CG	1:E:2114:VAL:HG22	2.31	0.59
1:F:836:VAL:HG12	1:F:837:VAL:H	1.67	0.59
1:F:2112:ARG:CG	1:F:2114:VAL:HG22	2.31	0.59
1:F:2403:ILE:HG23	1:F:2408:LEU:HD12	1.85	0.59
1:B:1435:VAL:HG11	1:B:1463:CYS:HB3	1.84	0.59
1:B:1724:TYR:OH	1:C:267:GLU:OE2	2.07	0.59
1:D:687:GLY:O	1:D:695:ILE:N	2.34	0.59
1:D:2749:GLU:HB3	1:C:2749:GLU:OE2	2.02	0.59
1:E:1701:VAL:HG22	1:E:1732:LEU:HB2	1.84	0.59
1:E:2749:GLU:HB3	1:B:2749:GLU:OE2	2.02	0.59
1:E:2753:LYS:NZ	1:B:2752:ASP:OD2	2.36	0.59
1:F:688:ARG:O	1:F:872:ARG:NE	2.34	0.59
1:F:2820:ILE:HD13	1:F:2943:MET:HG2	1.84	0.59
1:A:462:GLN:HG3	1:A:468:PHE:HD1	1.68	0.59
1:A:688:ARG:O	1:A:872:ARG:NE	2.34	0.59
1:B:687:GLY:O	1:B:695:ILE:N	2.34	0.59
1:B:1095:LEU:HD22	1:B:1289:PRO:HA	1.85	0.59
1:B:2056:PHE:HZ	1:B:2180:LYS:HE2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:580:ARG:HG2	1:C:590:LEU:HD21	1.83	0.59
1:D:1656:LYS:HG2	1:D:1660:LEU:HG	1.85	0.59
1:E:410:LEU:HB3	1:E:1025:VAL:HG21	1.84	0.59
1:E:511:ARG:HH11	1:E:543:GLY:HA3	1.65	0.59
1:E:836:VAL:HG12	1:E:837:VAL:H	1.67	0.59
1:E:1098:VAL:HG12	1:E:1100:ASP:H	1.66	0.59
1:E:3080:ARG:HG3	1:E:3080:ARG:NH1	2.09	0.59
1:F:1095:LEU:HD22	1:F:1289:PRO:HA	1.85	0.59
1:A:126:VAL:HG12	1:A:182:ALA:HB1	1.83	0.59
1:A:1098:VAL:HG12	1:A:1100:ASP:H	1.66	0.59
1:A:1701:VAL:HG22	1:A:1732:LEU:HB2	1.84	0.59
1:A:2800:PHE:HE1	1:A:2812:LEU:HD22	1.67	0.59
1:B:2403:ILE:HG23	1:B:2408:LEU:HD12	1.85	0.59
1:B:2712:GLU:HA	1:B:2717:VAL:HG11	1.84	0.59
1:B:2889:ILE:HG12	1:B:2922:LEU:HB3	1.84	0.59
1:C:670:GLY:O	1:C:682:ASN:ND2	2.35	0.59
1:D:2372:MET:HB3	1:D:2394:LEU:HD22	1.83	0.59
1:D:2461:VAL:HG11	1:D:2751:VAL:HG22	1.84	0.59
1:D:2647:VAL:HA	1:D:2650:TRP:HD1	1.66	0.59
1:F:1385:ARG:NE	1:F:2411:LYS:NZ	2.35	0.59
1:F:2521:VAL:HG13	1:F:2529:ARG:HH11	1.68	0.59
1:B:1309:VAL:HG22	1:B:1331:ILE:HG12	1.84	0.59
1:B:1656:LYS:HG2	1:B:1660:LEU:HG	1.84	0.59
1:B:2647:VAL:HA	1:B:2650:TRP:HD1	1.66	0.59
1:B:2686:MET:HE1	1:B:2935:LYS:HG3	1.84	0.59
1:C:462:GLN:HG3	1:C:468:PHE:HD1	1.68	0.59
1:C:1336:VAL:HG12	1:C:1337:MET:HG3	1.85	0.59
1:C:2334:HIS:HD2	1:C:2391:LYS:HG3	1.66	0.59
1:D:836:VAL:HG12	1:D:837:VAL:H	1.67	0.59
1:D:1008:VAL:HG13	1:D:1008:VAL:O	2.03	0.59
1:D:1309:VAL:HG22	1:D:1331:ILE:HG12	1.84	0.59
1:D:2752:ASP:OD2	1:C:2753:LYS:NZ	2.36	0.59
1:F:2212:TRP:HA	1:F:2229:LYS:HD3	1.83	0.59
1:F:2752:ASP:OD2	1:A:2753:LYS:NZ	2.36	0.59
1:F:2889:ILE:HG12	1:F:2922:LEU:HB3	1.84	0.59
1:A:656:THR:OG1	1:A:880:HIS:ND1	2.35	0.59
1:A:670:GLY:O	1:A:682:ASN:ND2	2.35	0.59
1:B:1537:LEU:HB2	1:B:1541:GLN:H	1.67	0.59
1:C:150:THR:O	1:C:152:PRO:HD3	2.03	0.59
1:C:2521:VAL:HG13	1:C:2529:ARG:HH11	1.68	0.59
1:D:795:HIS:HB3	1:D:799:PHE:CZ	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1532:ILE:HA	1:E:1544:ILE:HG12	1.83	0.59
1:E:2889:ILE:HG12	1:E:2922:LEU:HB3	1.84	0.59
1:F:1989:PHE:HD1	1:F:1992:LYS:HZ3	1.50	0.59
1:A:836:VAL:HG12	1:A:837:VAL:H	1.67	0.59
1:A:2521:VAL:HG13	1:A:2529:ARG:HH11	1.68	0.59
1:A:2889:ILE:HG12	1:A:2922:LEU:HB3	1.84	0.59
1:C:575:HIS:HD2	1:C:644:LEU:HD22	1.66	0.59
1:C:1656:LYS:HG2	1:C:1660:LEU:HG	1.84	0.59
1:D:1013:THR:CG2	1:D:1014:TRP:N	2.58	0.59
1:D:2521:VAL:HG13	1:D:2529:ARG:HH11	1.68	0.59
1:E:126:VAL:HG12	1:E:182:ALA:HB1	1.83	0.59
1:E:462:GLN:HG3	1:E:468:PHE:HD1	1.68	0.59
1:F:1008:VAL:CG2	1:F:1019:PHE:HB3	2.33	0.59
1:F:1435:VAL:HG11	1:F:1463:CYS:HB3	1.84	0.59
1:F:2461:VAL:HG11	1:F:2751:VAL:HG22	1.84	0.59
1:F:2686:MET:HE1	1:F:2935:LYS:HG3	1.83	0.59
1:A:34:LEU:O	1:A:38:LEU:N	2.25	0.59
1:A:1008:VAL:CG1	1:A:1019:PHE:HB3	2.33	0.59
1:A:1616:PRO:HG3	1:A:1668:LEU:HD13	1.85	0.59
1:A:2667:THR:HG21	1:A:3058:ARG:NH1	2.17	0.59
1:B:462:GLN:HG3	1:B:468:PHE:HD1	1.68	0.59
1:B:488:ASN:HA	1:B:521:VAL:HB	1.83	0.59
1:B:735:LYS:HD2	1:B:860:VAL:HG23	1.85	0.59
1:B:795:HIS:HB3	1:B:799:PHE:CZ	2.37	0.59
1:B:2820:ILE:HD13	1:B:2943:MET:HG2	1.84	0.59
1:D:1616:PRO:HG3	1:D:1668:LEU:HD13	1.85	0.58
1:D:2712:GLU:HA	1:D:2717:VAL:HG11	1.84	0.58
1:E:1616:PRO:HG3	1:E:1668:LEU:HD13	1.85	0.58
1:E:1989:PHE:HD1	1:E:1992:LYS:HZ3	1.50	0.58
1:F:784:GLU:OE2	1:F:787:LEU:HD12	2.03	0.58
1:F:1537:LEU:HB2	1:F:1541:GLN:H	1.67	0.58
1:B:656:THR:OG1	1:B:880:HIS:ND1	2.35	0.58
1:C:2124:ALA:O	1:C:2127:GLU:CG	2.51	0.58
1:C:2693:GLN:O	1:C:2697:HIS:ND1	2.33	0.58
1:C:2889:ILE:HG12	1:C:2922:LEU:HB3	1.84	0.58
1:D:2084:GLN:O	1:D:2087:GLN:CG	2.51	0.58
1:D:2667:THR:HG21	1:D:3058:ARG:NH1	2.17	0.58
1:D:2820:ILE:HD13	1:D:2943:MET:HG2	1.84	0.58
1:E:688:ARG:O	1:E:872:ARG:NE	2.34	0.58
1:E:735:LYS:HD2	1:E:860:VAL:HG23	1.85	0.58
1:E:1087:PHE:HB3	1:F:117:LYS:NZ	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1616:PRO:HG3	1:F:1668:LEU:HD13	1.85	0.58
1:A:410:LEU:HB3	1:A:1025:VAL:HG21	1.84	0.58
1:A:1435:VAL:HG11	1:A:1463:CYS:HB3	1.84	0.58
1:A:2686:MET:HE1	1:A:2935:LYS:HG3	1.84	0.58
1:A:2820:ILE:HD13	1:A:2943:MET:HG2	1.84	0.58
1:B:1616:PRO:HG3	1:B:1668:LEU:HD13	1.85	0.58
1:C:2667:THR:HG21	1:C:3058:ARG:NH1	2.18	0.58
1:F:735:LYS:HD2	1:F:860:VAL:HG23	1.85	0.58
1:F:2749:GLU:HB3	1:A:2749:GLU:OE2	2.02	0.58
1:F:2876:LEU:HB3	1:F:2881:VAL:HG12	1.86	0.58
1:A:33:ALA:O	1:A:37:ARG:N	2.35	0.58
1:A:784:GLU:OE2	1:A:787:LEU:HD12	2.04	0.58
1:C:129:VAL:HG13	1:C:356:PRO:HG2	1.85	0.58
1:C:1253:ARG:HG3	1:C:1253:ARG:NH1	2.18	0.58
1:C:1309:VAL:HG22	1:C:1331:ILE:HG12	1.84	0.58
1:C:2820:ILE:HD13	1:C:2943:MET:HG2	1.84	0.58
1:E:784:GLU:OE2	1:E:787:LEU:HD12	2.03	0.58
1:E:2461:VAL:HG11	1:E:2751:VAL:HG22	1.84	0.58
1:E:2667:THR:HG21	1:E:3058:ARG:NH1	2.17	0.58
1:F:462:GLN:HG3	1:F:468:PHE:HD1	1.68	0.58
1:F:687:GLY:O	1:F:695:ILE:N	2.34	0.58
1:F:1008:VAL:HG23	1:F:1008:VAL:O	2.03	0.58
1:F:1336:VAL:HG12	1:F:1337:MET:HG3	1.85	0.58
1:F:2124:ALA:O	1:F:2127:GLU:CG	2.51	0.58
1:A:1087:PHE:HB3	1:B:117:LYS:NZ	2.18	0.58
1:A:2651:ASN:HD22	1:A:2718:VAL:HG12	1.67	0.58
1:B:1327:VAL:HB	1:B:1339:ALA:HB3	1.86	0.58
1:B:1336:VAL:HG12	1:B:1337:MET:HG3	1.85	0.58
1:C:1008:VAL:CG2	1:C:1019:PHE:HB3	2.33	0.58
1:D:2487:LEU:HD11	1:D:2495:LEU:HD12	1.86	0.58
1:E:2084:GLN:O	1:E:2087:GLN:CG	2.52	0.58
1:E:2124:ALA:O	1:E:2127:GLU:CG	2.51	0.58
1:F:238:SER:OG	1:F:249:THR:OG1	2.15	0.58
1:F:513:SER:O	1:F:961:ARG:NE	2.36	0.58
1:F:621:SER:OG	1:F:643:ILE:HD13	2.04	0.58
1:F:2084:GLN:O	1:F:2087:GLN:CG	2.52	0.58
1:A:1656:LYS:HG2	1:A:1660:LEU:HG	1.85	0.58
1:A:2334:HIS:HD2	1:A:2391:LYS:HG3	1.66	0.58
1:B:1989:PHE:HD1	1:B:1992:LYS:HZ3	1.49	0.58
1:C:621:SER:OG	1:C:643:ILE:HD13	2.04	0.58
1:C:1008:VAL:HG23	1:C:1008:VAL:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:476:GLU:HA	1:D:479:LEU:HB2	1.86	0.58
1:D:2124:ALA:O	1:D:2127:GLU:CG	2.51	0.58
1:E:1656:LYS:HG2	1:E:1660:LEU:HG	1.85	0.58
1:E:2521:VAL:HG13	1:E:2529:ARG:HH11	1.68	0.58
1:F:129:VAL:HG13	1:F:356:PRO:HG2	1.85	0.58
1:F:476:GLU:HA	1:F:479:LEU:HB2	1.86	0.58
1:F:795:HIS:HB3	1:F:799:PHE:CZ	2.37	0.58
1:A:735:LYS:HD2	1:A:860:VAL:HG23	1.85	0.58
1:B:33:ALA:O	1:B:37:ARG:N	2.35	0.58
1:B:150:THR:O	1:B:152:PRO:HD3	2.03	0.58
1:B:1008:VAL:CG2	1:B:1019:PHE:HB3	2.33	0.58
1:B:1013:THR:CG2	1:B:1014:TRP:N	2.58	0.58
1:B:2461:VAL:HG11	1:B:2751:VAL:HG22	1.84	0.58
1:B:2667:THR:HG21	1:B:3058:ARG:NH1	2.17	0.58
1:D:2876:LEU:HB3	1:D:2881:VAL:HG12	1.86	0.58
1:E:127:PRO:HG3	1:E:183:GLN:HA	1.86	0.58
1:E:150:THR:O	1:E:152:PRO:HD3	2.03	0.58
1:E:2800:PHE:HE1	1:E:2812:LEU:HD22	1.67	0.58
1:F:150:THR:O	1:F:152:PRO:HD3	2.03	0.58
1:F:2749:GLU:OE2	1:A:2749:GLU:HB3	2.02	0.58
1:B:2084:GLN:O	1:B:2087:GLN:CG	2.52	0.58
1:C:476:GLU:HA	1:C:479:LEU:HB2	1.86	0.58
1:C:784:GLU:OE2	1:C:787:LEU:HD12	2.03	0.58
1:C:2084:GLN:O	1:C:2087:GLN:CG	2.52	0.58
1:C:2487:LEU:HD11	1:C:2495:LEU:HD12	1.86	0.58
1:D:784:GLU:OE2	1:D:787:LEU:HD12	2.04	0.58
1:D:2554:ALA:HB1	1:D:2614:LYS:HZ2	1.69	0.58
1:E:2787:THR:HA	1:E:2790:MET:HG3	1.86	0.58
1:A:127:PRO:HG3	1:A:183:GLN:HA	1.86	0.58
1:A:621:SER:OG	1:A:643:ILE:HD13	2.04	0.58
1:B:511:ARG:HD2	1:B:517:ILE:O	2.04	0.58
1:B:924:LEU:O	1:B:929:GLU:N	2.30	0.58
1:B:2124:ALA:O	1:B:2127:GLU:CG	2.51	0.58
1:B:2693:GLN:O	1:B:2697:HIS:ND1	2.33	0.58
1:B:2876:LEU:HB3	1:B:2881:VAL:HG12	1.86	0.58
1:C:500:GLN:O	1:C:504:LYS:N	2.24	0.58
1:C:776:ASP:O	1:C:779:TRP:N	2.31	0.58
1:C:2461:VAL:HG11	1:C:2751:VAL:HG22	1.84	0.58
1:C:2876:LEU:HB3	1:C:2881:VAL:HG12	1.86	0.58
1:D:410:LEU:HB3	1:D:1025:VAL:HG21	1.84	0.58
1:D:462:GLN:HG3	1:D:468:PHE:HD1	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1087:PHE:HB3	1:E:117:LYS:NZ	2.18	0.58
1:D:1253:ARG:HG3	1:D:1253:ARG:NH1	2.18	0.58
1:D:1537:LEU:HB2	1:D:1541:GLN:H	1.67	0.58
1:E:776:ASP:O	1:E:779:TRP:N	2.31	0.58
1:E:1008:VAL:CG1	1:E:1019:PHE:HB3	2.33	0.58
1:E:1095:LEU:HD22	1:E:1289:PRO:HA	1.85	0.58
1:E:1336:VAL:HG12	1:E:1337:MET:HG3	1.85	0.58
1:E:1435:VAL:HG11	1:E:1463:CYS:HB3	1.84	0.58
1:E:2554:ALA:HB1	1:E:2614:LYS:NZ	2.19	0.58
1:E:2748:GLU:HG2	1:B:2753:LYS:NZ	2.19	0.58
1:F:1656:LYS:HG2	1:F:1660:LEU:HG	1.84	0.58
1:A:3080:ARG:HG3	1:A:3080:ARG:NH1	2.09	0.58
1:B:476:GLU:HA	1:B:479:LEU:HB2	1.86	0.58
1:B:1087:PHE:HB3	1:C:117:LYS:NZ	2.19	0.58
1:B:2554:ALA:HB1	1:B:2614:LYS:NZ	2.19	0.58
1:B:2787:THR:HA	1:B:2790:MET:HG3	1.86	0.58
1:C:441:ASP:OD2	1:C:443:LYS:HB3	2.04	0.58
1:C:2339:TRP:HB2	1:C:2398:LEU:HD11	1.86	0.58
1:D:1095:LEU:HD22	1:D:1289:PRO:HA	1.85	0.58
1:E:1091:LEU:HD13	1:E:1281:ALA:HB3	1.86	0.58
1:E:2487:LEU:HD11	1:E:2495:LEU:HD12	1.86	0.58
1:F:511:ARG:HD2	1:F:517:ILE:O	2.04	0.58
1:F:1405:ALA:HB3	1:F:1408:VAL:HG23	1.86	0.58
1:A:2787:THR:HA	1:A:2790:MET:HG3	1.86	0.58
1:B:1701:VAL:HG22	1:B:1732:LEU:HB2	1.84	0.58
1:D:924:LEU:HA	1:D:928:ALA:HB3	1.87	0.57
1:D:1538:ARG:NH1	1:D:1722:PRO:HB3	2.18	0.57
1:D:3001:HIS:NE2	1:C:2724:GLN:HG2	2.19	0.57
1:F:958:TRP:CZ2	1:F:1131:SER:OG	2.52	0.57
1:F:2352:ILE:HG12	1:F:2412:ALA:HB1	1.86	0.57
1:F:2787:THR:HA	1:F:2790:MET:HG3	1.86	0.57
1:A:511:ARG:NH1	1:A:543:GLY:HA3	2.19	0.57
1:A:2124:ALA:O	1:A:2127:GLU:CG	2.51	0.57
1:B:784:GLU:OE2	1:B:787:LEU:HD12	2.03	0.57
1:B:1405:ALA:HB3	1:B:1408:VAL:HG23	1.86	0.57
1:C:511:ARG:NH1	1:C:543:GLY:HA3	2.19	0.57
1:C:2403:ILE:HG23	1:C:2408:LEU:HD12	1.85	0.57
1:D:2339:TRP:HB2	1:D:2398:LEU:HD11	1.86	0.57
1:E:621:SER:OG	1:E:643:ILE:HD13	2.04	0.57
1:F:776:ASP:O	1:F:779:TRP:N	2.31	0.57
1:F:2614:LYS:HZ1	1:A:2583:PHE:HD1	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:LYS:NZ	1:C:1087:PHE:HB3	2.19	0.57
1:A:150:THR:O	1:A:152:PRO:HD3	2.03	0.57
1:A:1091:LEU:HD13	1:A:1281:ALA:HB3	1.86	0.57
1:A:1095:LEU:HD22	1:A:1289:PRO:HA	1.85	0.57
1:A:1336:VAL:HG12	1:A:1337:MET:HG3	1.85	0.57
1:A:2403:ILE:HG23	1:A:2408:LEU:HD12	1.85	0.57
1:A:2876:LEU:HB3	1:A:2881:VAL:HG12	1.86	0.57
1:B:776:ASP:O	1:B:779:TRP:N	2.31	0.57
1:B:1253:ARG:HG3	1:B:1253:ARG:NH1	2.18	0.57
1:C:1537:LEU:HD11	1:C:1714:LEU:HB3	1.87	0.57
1:C:2554:ALA:HB1	1:C:2614:LYS:HZ2	1.67	0.57
1:D:1336:VAL:HG12	1:D:1337:MET:HG3	1.85	0.57
1:D:1445:VAL:HG23	1:D:1448:ALA:HB2	1.87	0.57
1:D:1537:LEU:HD11	1:D:1714:LEU:HB3	1.87	0.57
1:E:511:ARG:HD2	1:E:517:ILE:O	2.04	0.57
1:E:2961:LEU:HD23	1:E:2978:ARG:HB3	1.87	0.57
1:F:127:PRO:HG3	1:F:183:GLN:HA	1.86	0.57
1:F:441:ASP:OD2	1:F:443:LYS:HB3	2.04	0.57
1:F:511:ARG:NH1	1:F:543:GLY:HA3	2.20	0.57
1:F:1309:VAL:HG22	1:F:1331:ILE:HG12	1.84	0.57
1:F:2748:GLU:HG2	1:A:2753:LYS:NZ	2.19	0.57
1:F:2983:LEU:HB3	1:F:2987:PHE:O	2.05	0.57
1:A:1253:ARG:HG3	1:A:1253:ARG:NH1	2.18	0.57
1:A:2487:LEU:HD11	1:A:2495:LEU:HD12	1.86	0.57
1:B:441:ASP:OD2	1:B:443:LYS:HB3	2.04	0.57
1:B:2521:VAL:HG13	1:B:2529:ARG:HH11	1.68	0.57
1:C:1327:VAL:HB	1:C:1339:ALA:HB3	1.86	0.57
1:D:2846:ALA:HA	1:D:3001:HIS:O	2.05	0.57
1:F:924:LEU:HA	1:F:928:ALA:HB3	1.86	0.57
1:A:2339:TRP:HB2	1:A:2398:LEU:HD11	1.86	0.57
1:C:924:LEU:HA	1:C:928:ALA:HB3	1.87	0.57
1:C:1095:LEU:HD22	1:C:1289:PRO:HA	1.85	0.57
1:C:1538:ARG:NH1	1:C:1722:PRO:HB3	2.18	0.57
1:D:735:LYS:HD2	1:D:860:VAL:HG23	1.85	0.57
1:D:1008:VAL:CG1	1:D:1019:PHE:HB3	2.33	0.57
1:D:1017:ILE:HG23	1:D:1045:VAL:HG21	1.87	0.57
1:D:2403:ILE:HG23	1:D:2408:LEU:HD12	1.85	0.57
1:D:2724:GLN:HG2	1:C:3001:HIS:NE2	2.19	0.57
1:D:2748:GLU:HG2	1:C:2753:LYS:NZ	2.19	0.57
1:E:476:GLU:HA	1:E:479:LEU:HB2	1.86	0.57
1:E:1017:ILE:HG23	1:E:1045:VAL:HG21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2651:ASN:HD22	1:E:2718:VAL:HG12	1.67	0.57
1:E:2724:GLN:HG2	1:B:3001:HIS:NE2	2.20	0.57
1:E:2731:GLY:HA2	1:B:2845:PHE:CD1	2.38	0.57
1:E:2846:ALA:HA	1:E:3001:HIS:O	2.05	0.57
1:E:2865:ARG:NH1	1:B:3077:THR:O	2.38	0.57
1:A:2084:GLN:O	1:A:2087:GLN:CG	2.52	0.57
1:B:1008:VAL:O	1:B:1008:VAL:HG23	2.03	0.57
1:C:1405:ALA:HB3	1:C:1408:VAL:HG23	1.86	0.57
1:C:2622:GLY:HA2	1:C:2812:LEU:HD11	1.87	0.57
1:C:2709:ILE:O	1:C:2713:VAL:HG13	2.05	0.57
1:D:511:ARG:HD2	1:D:517:ILE:O	2.04	0.57
1:D:2889:ILE:HG12	1:D:2922:LEU:HB3	1.85	0.57
1:E:2709:ILE:O	1:E:2713:VAL:HG13	2.05	0.57
1:E:2752:ASP:OD2	1:B:2753:LYS:NZ	2.36	0.57
1:E:2876:LEU:HB3	1:E:2881:VAL:HG12	1.86	0.57
1:F:1253:ARG:HG3	1:F:1253:ARG:NH1	2.18	0.57
1:F:1445:VAL:HG23	1:F:1448:ALA:HB2	1.87	0.57
1:F:3001:HIS:NE2	1:A:2724:GLN:HG2	2.19	0.57
1:F:3077:THR:O	1:A:2865:ARG:NH1	2.38	0.57
1:A:441:ASP:OD2	1:A:443:LYS:HB3	2.04	0.57
1:A:1008:VAL:HG13	1:A:1008:VAL:O	2.03	0.57
1:A:2846:ALA:HA	1:A:3001:HIS:O	2.05	0.57
1:B:621:SER:OG	1:B:643:ILE:HD13	2.04	0.57
1:B:2846:ALA:HA	1:B:3001:HIS:O	2.05	0.57
1:C:735:LYS:HD2	1:C:860:VAL:HG23	1.85	0.57
1:C:1017:ILE:HG23	1:C:1045:VAL:HG21	1.87	0.57
1:C:1616:PRO:HG3	1:C:1668:LEU:HD13	1.85	0.57
1:D:2622:GLY:HA2	1:D:2812:LEU:HD11	1.87	0.57
1:E:511:ARG:NH1	1:E:543:GLY:HA3	2.19	0.57
1:E:2403:ILE:HG23	1:E:2408:LEU:HD12	1.85	0.57
1:E:2693:GLN:O	1:E:2697:HIS:ND1	2.33	0.57
1:F:1537:LEU:HD11	1:F:1714:LEU:HB3	1.87	0.57
1:A:511:ARG:HD2	1:A:517:ILE:O	2.04	0.57
1:A:2961:LEU:HD23	1:A:2978:ARG:HB3	1.87	0.57
1:C:2983:LEU:HB3	1:C:2987:PHE:O	2.05	0.57
1:D:1405:ALA:HB3	1:D:1408:VAL:HG23	1.86	0.57
1:D:2961:LEU:HD23	1:D:2978:ARG:HB3	1.87	0.57
1:E:1405:ALA:HB3	1:E:1408:VAL:HG23	1.86	0.57
1:E:2753:LYS:NZ	1:B:2748:GLU:HG2	2.19	0.57
1:F:2865:ARG:NH1	1:A:3077:THR:O	2.38	0.57
1:A:2709:ILE:O	1:A:2713:VAL:HG13	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2521:VAL:HG13	1:B:2529:ARG:NH1	2.20	0.57
1:C:511:ARG:HD2	1:C:517:ILE:O	2.04	0.57
1:D:621:SER:OG	1:D:643:ILE:HD13	2.04	0.57
1:D:868:ARG:HB3	1:D:872:ARG:HH11	1.70	0.57
1:E:129:VAL:HG13	1:E:356:PRO:HG2	1.85	0.57
1:E:1008:VAL:HG13	1:E:1008:VAL:O	2.03	0.57
1:E:1126:ILE:O	1:E:1197:ARG:CG	2.53	0.57
1:E:1327:VAL:HB	1:E:1339:ALA:HB3	1.86	0.57
1:E:3077:THR:O	1:B:2865:ARG:NH1	2.38	0.57
1:F:2554:ALA:HB1	1:F:2614:LYS:NZ	2.19	0.57
1:F:2753:LYS:NZ	1:A:2748:GLU:HG2	2.19	0.57
1:A:475:LEU:O	1:A:479:LEU:N	2.38	0.57
1:A:1001:ASP:O	1:A:1002:GLN:CG	2.53	0.57
1:A:1405:ALA:HB3	1:A:1408:VAL:HG23	1.86	0.57
1:B:127:PRO:HG3	1:B:183:GLN:HA	1.86	0.57
1:B:1126:ILE:O	1:B:1197:ARG:CG	2.53	0.57
1:B:2622:GLY:HA2	1:B:2812:LEU:HD11	1.86	0.57
1:B:2709:ILE:O	1:B:2713:VAL:HG13	2.05	0.57
1:C:1445:VAL:HG23	1:C:1448:ALA:HB2	1.87	0.57
1:C:2961:LEU:HD23	1:C:2978:ARG:HB3	1.87	0.57
1:D:1126:ILE:O	1:D:1197:ARG:CG	2.53	0.57
1:D:2753:LYS:NZ	1:C:2748:GLU:HG2	2.19	0.57
1:C:127:PRO:HG3	1:C:183:GLN:HA	1.86	0.57
1:C:2846:ALA:HA	1:C:3001:HIS:O	2.05	0.57
1:D:441:ASP:OD2	1:D:443:LYS:HB3	2.04	0.56
1:D:511:ARG:NH1	1:D:543:GLY:HA3	2.19	0.56
1:D:2653:VAL:HA	1:D:3051:MET:HE3	1.87	0.56
1:D:2865:ARG:NH1	1:C:3077:THR:O	2.38	0.56
1:E:441:ASP:OD2	1:E:443:LYS:HB3	2.04	0.56
1:E:1637:VAL:HG21	1:E:1671:TRP:CG	2.40	0.56
1:F:2487:LEU:HD11	1:F:2495:LEU:HD12	1.86	0.56
1:F:2622:GLY:HA2	1:F:2812:LEU:HD11	1.87	0.56
1:B:1537:LEU:HD11	1:B:1714:LEU:HB3	1.87	0.56
1:C:2554:ALA:HB1	1:C:2614:LYS:NZ	2.19	0.56
1:D:1327:VAL:HB	1:D:1339:ALA:HB3	1.86	0.56
1:D:1637:VAL:HG21	1:D:1671:TRP:CG	2.40	0.56
1:D:1989:PHE:HD1	1:D:1992:LYS:HZ3	1.50	0.56
1:E:2521:VAL:HG13	1:E:2529:ARG:NH1	2.20	0.56
1:F:500:GLN:O	1:F:504:LYS:N	2.24	0.56
1:F:958:TRP:O	1:F:959:ALA:HB3	2.05	0.56
1:F:1001:ASP:O	1:F:1002:GLN:CG	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2753:LYS:NZ	1:A:2752:ASP:OD2	2.36	0.56
1:A:1327:VAL:HB	1:A:1339:ALA:HB3	1.86	0.56
1:B:924:LEU:HA	1:B:928:ALA:HB3	1.86	0.56
1:B:1445:VAL:HG23	1:B:1448:ALA:HB2	1.87	0.56
1:C:1013:THR:CG2	1:C:1014:TRP:N	2.58	0.56
1:C:1420:THR:OG1	1:C:1485:HIS:NE2	2.38	0.56
1:D:1001:ASP:O	1:D:1002:GLN:CG	2.54	0.56
1:D:2521:VAL:HG13	1:D:2529:ARG:NH1	2.20	0.56
1:D:2614:LYS:HZ1	1:C:2583:PHE:HD1	1.51	0.56
1:D:2787:THR:HA	1:D:2790:MET:HG3	1.86	0.56
1:E:656:THR:OG1	1:E:880:HIS:ND1	2.35	0.56
1:E:868:ARG:HB3	1:E:872:ARG:HH11	1.70	0.56
1:E:924:LEU:HA	1:E:928:ALA:HB3	1.87	0.56
1:E:1537:LEU:HD11	1:E:1714:LEU:HB3	1.87	0.56
1:E:2957:PRO:HD3	1:E:2980:PRO:HB3	1.88	0.56
1:F:177:GLU:HB3	1:F:317:LEU:HD13	1.87	0.56
1:F:1327:VAL:HB	1:F:1339:ALA:HB3	1.86	0.56
1:F:1511:ASP:H	1:F:1514:ASP:HB2	1.71	0.56
1:F:2407:GLU:CD	1:F:2411:LYS:HZ2	2.08	0.56
1:F:2846:ALA:HA	1:F:3001:HIS:O	2.05	0.56
1:A:129:VAL:HG13	1:A:356:PRO:HG2	1.85	0.56
1:A:540:ASN:HD21	1:A:544:ILE:HG13	1.71	0.56
1:A:868:ARG:HB3	1:A:872:ARG:HH11	1.70	0.56
1:A:1420:THR:OG1	1:A:1485:HIS:NE2	2.39	0.56
1:A:1537:LEU:HD11	1:A:1714:LEU:HB3	1.87	0.56
1:A:2554:ALA:HB1	1:A:2614:LYS:NZ	2.19	0.56
1:B:129:VAL:HG13	1:B:356:PRO:HG2	1.85	0.56
1:B:511:ARG:NH1	1:B:543:GLY:HA3	2.19	0.56
1:B:868:ARG:HB3	1:B:872:ARG:HH11	1.70	0.56
1:B:1091:LEU:HD13	1:B:1281:ALA:HB3	1.86	0.56
1:B:1538:ARG:NH1	1:B:1722:PRO:HB3	2.18	0.56
1:B:2339:TRP:HB2	1:B:2398:LEU:HD11	1.86	0.56
1:C:177:GLU:HB3	1:C:317:LEU:HD13	1.87	0.56
1:C:475:LEU:O	1:C:479:LEU:N	2.37	0.56
1:C:1637:VAL:HG21	1:C:1671:TRP:CG	2.40	0.56
1:D:2957:PRO:HD3	1:D:2980:PRO:HB3	1.88	0.56
1:D:3077:THR:O	1:C:2865:ARG:NH1	2.38	0.56
1:E:1511:ASP:H	1:E:1514:ASP:HB2	1.71	0.56
1:E:2622:GLY:HA2	1:E:2812:LEU:HD11	1.87	0.56
1:F:2724:GLN:HG2	1:A:3001:HIS:NE2	2.19	0.56
1:A:476:GLU:HA	1:A:479:LEU:HB2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1017:ILE:HG23	1:B:1045:VAL:HG21	1.87	0.56
1:B:2983:LEU:HB3	1:B:2987:PHE:O	2.05	0.56
1:C:1091:LEU:HD13	1:C:1281:ALA:HB3	1.86	0.56
1:C:1511:ASP:H	1:C:1514:ASP:HB2	1.71	0.56
1:C:2787:THR:HA	1:C:2790:MET:HG3	1.86	0.56
1:D:2709:ILE:O	1:D:2713:VAL:HG13	2.05	0.56
1:E:2983:LEU:HB3	1:E:2987:PHE:O	2.05	0.56
1:F:490:LEU:HD23	1:F:523:SER:HB2	1.87	0.56
1:F:2339:TRP:HB2	1:F:2398:LEU:HD11	1.86	0.56
1:A:1126:ILE:O	1:A:1197:ARG:CG	2.53	0.56
1:A:2957:PRO:HD3	1:A:2980:PRO:HB3	1.88	0.56
1:B:177:GLU:HB3	1:B:317:LEU:HD13	1.87	0.56
1:C:37:ARG:O	1:C:41:GLY:N	2.39	0.56
1:C:1126:ILE:O	1:C:1197:ARG:CG	2.53	0.56
1:D:776:ASP:O	1:D:779:TRP:N	2.31	0.56
1:D:2481:MET:O	1:D:2959:ARG:NH2	2.39	0.56
1:E:2481:MET:O	1:E:2959:ARG:NH2	2.39	0.56
1:F:1013:THR:CG2	1:F:1014:TRP:N	2.58	0.56
1:F:1091:LEU:HD13	1:F:1281:ALA:HB3	1.86	0.56
1:F:1385:ARG:NH1	1:F:2411:LYS:CD	2.69	0.56
1:F:1538:ARG:NH1	1:F:1722:PRO:HB3	2.18	0.56
1:A:500:GLN:O	1:A:504:LYS:N	2.24	0.56
1:A:1445:VAL:HG23	1:A:1448:ALA:HB2	1.87	0.56
1:A:2622:GLY:HA2	1:A:2812:LEU:HD11	1.87	0.56
1:B:37:ARG:O	1:B:41:GLY:N	2.39	0.56
1:B:490:LEU:HD23	1:B:523:SER:HB2	1.87	0.56
1:B:1637:VAL:HG21	1:B:1671:TRP:CG	2.40	0.56
1:C:868:ARG:HB3	1:C:872:ARG:HH11	1.70	0.56
1:C:2521:VAL:HG13	1:C:2529:ARG:NH1	2.20	0.56
1:D:2983:LEU:HB3	1:D:2987:PHE:O	2.05	0.56
1:E:1010:LEU:O	1:E:1017:ILE:N	2.29	0.56
1:E:1496:SER:HB3	1:E:1578:ASP:HB3	1.88	0.56
1:E:2478:ARG:NH1	1:E:2482:GLU:OE1	2.39	0.56
1:F:1637:VAL:HG21	1:F:1671:TRP:CG	2.40	0.56
1:A:1637:VAL:HG21	1:A:1671:TRP:CG	2.40	0.56
1:A:2303:ASP:OD1	1:A:2303:ASP:N	2.39	0.56
1:A:2481:MET:O	1:A:2959:ARG:NH2	2.39	0.56
1:A:2693:GLN:O	1:A:2697:HIS:ND1	2.33	0.56
1:B:540:ASN:HD21	1:B:544:ILE:HG13	1.71	0.56
1:B:2487:LEU:HD11	1:B:2495:LEU:HD12	1.86	0.56
1:D:475:LEU:O	1:D:479:LEU:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:540:ASN:HD21	1:D:544:ILE:HG13	1.71	0.56
1:D:1091:LEU:HD13	1:D:1281:ALA:HB3	1.86	0.56
1:E:37:ARG:O	1:E:41:GLY:N	2.39	0.56
1:E:1618:LEU:HG	1:E:1619:VAL:HG23	1.88	0.56
1:F:1126:ILE:O	1:F:1197:ARG:CG	2.53	0.56
1:F:2521:VAL:HG13	1:F:2529:ARG:NH1	2.20	0.56
1:F:2709:ILE:O	1:F:2713:VAL:HG13	2.05	0.56
1:A:924:LEU:HA	1:A:928:ALA:HB3	1.86	0.56
1:A:2881:VAL:HG13	1:A:2885:ASP:HB2	1.88	0.56
1:C:2303:ASP:OD1	1:C:2303:ASP:N	2.39	0.56
1:C:2881:VAL:HG13	1:C:2885:ASP:HB2	1.88	0.56
1:C:2957:PRO:HD3	1:C:2980:PRO:HB3	1.88	0.56
1:F:37:ARG:O	1:F:41:GLY:N	2.39	0.56
1:F:144:GLY:O	1:F:148:THR:N	2.34	0.56
1:A:2521:VAL:HG13	1:A:2529:ARG:NH1	2.20	0.56
1:C:1001:ASP:O	1:C:1002:GLN:CG	2.53	0.56
1:D:2554:ALA:HB1	1:D:2614:LYS:NZ	2.19	0.56
1:D:2881:VAL:HG13	1:D:2885:ASP:HB2	1.88	0.56
1:E:2881:VAL:HG13	1:E:2885:ASP:HB2	1.88	0.56
1:E:3001:HIS:NE2	1:B:2724:GLN:HG2	2.19	0.56
1:F:2481:MET:O	1:F:2959:ARG:NH2	2.39	0.56
1:A:1511:ASP:H	1:A:1514:ASP:HB2	1.71	0.56
1:B:1001:ASP:O	1:B:1002:GLN:CG	2.53	0.56
1:B:1496:SER:HB3	1:B:1578:ASP:HB3	1.88	0.56
1:C:2478:ARG:NH1	1:C:2482:GLU:OE1	2.39	0.56
1:E:2339:TRP:HB2	1:E:2398:LEU:HD11	1.86	0.55
1:E:2743:ALA:HB3	1:E:2939:ALA:HB3	1.89	0.55
1:F:1037:ASP:OD2	1:F:1043:ARG:N	2.40	0.55
1:F:2478:ARG:NH1	1:F:2482:GLU:OE1	2.39	0.55
1:F:2961:LEU:HD23	1:F:2978:ARG:HB3	1.87	0.55
1:A:1017:ILE:HG23	1:A:1045:VAL:HG21	1.87	0.55
1:C:2481:MET:O	1:C:2959:ARG:NH2	2.39	0.55
1:D:975:GLU:CG	1:D:976:TRP:N	2.70	0.55
1:D:2478:ARG:NH1	1:D:2482:GLU:OE1	2.39	0.55
1:D:2962:ASP:OD1	1:D:2962:ASP:N	2.34	0.55
1:E:1001:ASP:O	1:E:1002:GLN:CG	2.53	0.55
1:E:2753:LYS:HZ2	1:B:2748:GLU:HG2	1.71	0.55
1:F:868:ARG:HB3	1:F:872:ARG:HH11	1.70	0.55
1:F:2845:PHE:CD1	1:A:2731:GLY:HA2	2.39	0.55
1:A:2983:LEU:HB3	1:A:2987:PHE:O	2.05	0.55
1:B:745:THR:OG1	1:B:834:GLU:O	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1511:ASP:H	1:B:1514:ASP:HB2	1.70	0.55
1:B:2481:MET:O	1:B:2959:ARG:NH2	2.39	0.55
1:D:2704:ALA:O	1:D:2705:LYS:HD3	2.07	0.55
1:A:144:GLY:O	1:A:148:THR:N	2.34	0.55
1:A:1496:SER:HB3	1:A:1578:ASP:HB3	1.89	0.55
1:A:2743:ALA:HB3	1:A:2939:ALA:HB3	1.88	0.55
1:B:475:LEU:O	1:B:479:LEU:N	2.37	0.55
1:D:1511:ASP:H	1:D:1514:ASP:HB2	1.71	0.55
1:D:2303:ASP:N	1:D:2303:ASP:OD1	2.39	0.55
1:E:540:ASN:HD21	1:E:544:ILE:HG13	1.71	0.55
1:E:1087:PHE:HB3	1:F:117:LYS:HZ1	1.70	0.55
1:E:1445:VAL:HG23	1:E:1448:ALA:HB2	1.87	0.55
1:E:1734:SER:HA	1:E:1741:LEU:HD11	1.89	0.55
1:F:513:SER:C	1:F:961:ARG:HH11	2.02	0.55
1:F:1496:SER:HB3	1:F:1578:ASP:HB3	1.89	0.55
1:F:2743:ALA:HB3	1:F:2939:ALA:HB3	1.88	0.55
1:A:2810:GLY:HA2	1:A:2896:THR:HA	1.89	0.55
1:B:238:SER:OG	1:B:249:THR:OG1	2.15	0.55
1:B:2478:ARG:NH1	1:B:2482:GLU:OE1	2.39	0.55
1:C:33:ALA:O	1:C:37:ARG:N	2.35	0.55
1:D:551:PRO:HG3	1:D:560:VAL:HG21	1.89	0.55
1:E:475:LEU:O	1:E:479:LEU:N	2.37	0.55
1:E:2810:GLY:HA2	1:E:2896:THR:HA	1.89	0.55
1:F:958:TRP:N	1:F:958:TRP:CD1	2.73	0.55
1:A:37:ARG:O	1:A:41:GLY:N	2.38	0.55
1:A:975:GLU:CG	1:A:976:TRP:N	2.70	0.55
1:C:540:ASN:HD21	1:C:544:ILE:HG13	1.71	0.55
1:C:551:PRO:HG3	1:C:560:VAL:HG21	1.89	0.55
1:C:2704:ALA:O	1:C:2705:LYS:HD3	2.07	0.55
1:E:490:LEU:HD23	1:E:523:SER:HB2	1.87	0.55
1:E:2303:ASP:N	1:E:2303:ASP:OD1	2.39	0.55
1:E:2704:ALA:O	1:E:2705:LYS:HD3	2.07	0.55
1:F:176:VAL:O	1:F:180:ALA:N	2.36	0.55
1:F:975:GLU:CG	1:F:976:TRP:N	2.70	0.55
1:F:2704:ALA:O	1:F:2705:LYS:HD3	2.07	0.55
1:F:2957:PRO:HD3	1:F:2980:PRO:HB3	1.88	0.55
1:A:177:GLU:HB3	1:A:317:LEU:HD13	1.87	0.55
1:B:975:GLU:CG	1:B:976:TRP:N	2.70	0.55
1:B:1420:THR:OG1	1:B:1485:HIS:NE2	2.38	0.55
1:C:1618:LEU:HG	1:C:1619:VAL:HG23	1.88	0.55
1:E:177:GLU:HB3	1:E:317:LEU:HD13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:LYS:HZ3	1:C:1087:PHE:HB3	1.70	0.55
1:A:2478:ARG:NH1	1:A:2482:GLU:OE1	2.39	0.55
1:B:2704:ALA:O	1:B:2705:LYS:HD3	2.07	0.55
1:C:490:LEU:HD23	1:C:523:SER:HB2	1.87	0.55
1:D:490:LEU:HD23	1:D:523:SER:HB2	1.87	0.55
1:D:737:TYR:HE1	1:D:862:VAL:HA	1.72	0.55
1:D:1724:TYR:OH	1:E:267:GLU:OE2	2.07	0.55
1:E:2458:ALA:HA	1:E:2824:ARG:HD2	1.89	0.55
1:F:1038:ALA:CA	1:F:1126:ILE:HA	2.37	0.55
1:F:2881:VAL:HG13	1:F:2885:ASP:HB2	1.88	0.55
1:B:2743:ALA:HB3	1:B:2939:ALA:HB3	1.88	0.55
1:B:2961:LEU:HD23	1:B:2978:ARG:HB3	1.87	0.55
1:C:975:GLU:CG	1:C:976:TRP:N	2.70	0.55
1:C:1690:GLU:O	1:C:1694:GLY:N	2.40	0.55
1:E:737:TYR:HE1	1:E:862:VAL:HA	1.72	0.55
1:E:975:GLU:CG	1:E:976:TRP:N	2.70	0.55
1:E:1357:ILE:HG13	1:E:1710:THR:HG21	1.89	0.55
1:A:490:LEU:HD23	1:A:523:SER:HB2	1.87	0.55
1:A:580:ARG:HH11	1:A:614:GLY:HA3	1.72	0.55
1:A:1357:ILE:HG13	1:A:1710:THR:HG21	1.89	0.55
1:A:1690:GLU:O	1:A:1694:GLY:N	2.40	0.55
1:A:1734:SER:HA	1:A:1741:LEU:HD11	1.89	0.55
1:A:2458:ALA:HA	1:A:2824:ARG:HD2	1.89	0.55
1:B:1087:PHE:HB3	1:C:117:LYS:HZ3	1.71	0.55
1:B:2458:ALA:HA	1:B:2824:ARG:HD2	1.89	0.55
1:C:931:VAL:HG13	1:C:933:VAL:CG2	2.37	0.55
1:E:1253:ARG:HG3	1:E:1253:ARG:NH1	2.18	0.55
1:B:2881:VAL:HG13	1:B:2885:ASP:HB2	1.88	0.55
1:C:2810:GLY:HA2	1:C:2896:THR:HA	1.88	0.55
1:D:1690:GLU:O	1:D:1694:GLY:N	2.40	0.54
1:D:2810:GLY:HA2	1:D:2896:THR:HA	1.89	0.54
1:E:2845:PHE:CD1	1:B:2731:GLY:HA2	2.39	0.54
1:F:540:ASN:HD21	1:F:544:ILE:HG13	1.71	0.54
1:F:1020:THR:O	1:F:1035:VAL:N	2.40	0.54
1:F:1357:ILE:HG13	1:F:1710:THR:HG21	1.89	0.54
1:A:1010:LEU:O	1:A:1017:ILE:N	2.29	0.54
1:A:1618:LEU:HG	1:A:1619:VAL:HG23	1.88	0.54
1:B:737:TYR:HE1	1:B:862:VAL:HA	1.72	0.54
1:B:1690:GLU:O	1:B:1694:GLY:N	2.40	0.54
1:D:668:THR:OG1	1:D:698:ILE:HD11	2.08	0.54
1:D:931:VAL:HG13	1:D:933:VAL:CG1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2417:SER:O	1:D:2421:ASP:N	2.40	0.54
1:D:2845:PHE:CD1	1:C:2731:GLY:HA2	2.39	0.54
1:A:2704:ALA:O	1:A:2705:LYS:HD3	2.07	0.54
1:B:2957:PRO:HD3	1:B:2980:PRO:HB3	1.88	0.54
1:D:1618:LEU:HG	1:D:1619:VAL:HG23	1.88	0.54
1:E:1690:GLU:O	1:E:1694:GLY:N	2.40	0.54
1:F:1690:GLU:O	1:F:1694:GLY:N	2.40	0.54
1:F:2303:ASP:OD1	1:F:2303:ASP:N	2.39	0.54
1:F:2458:ALA:HA	1:F:2824:ARG:HD2	1.89	0.54
1:A:551:PRO:HG3	1:A:560:VAL:HG21	1.89	0.54
1:E:580:ARG:HH11	1:E:614:GLY:HA3	1.73	0.54
1:E:668:THR:OG1	1:E:698:ILE:HD11	2.08	0.54
1:E:2012:GLY:C	1:F:2591:ARG:NH1	2.61	0.54
1:F:475:LEU:O	1:F:479:LEU:N	2.37	0.54
1:F:931:VAL:HG13	1:F:933:VAL:CG1	2.37	0.54
1:A:2653:VAL:HA	1:A:3051:MET:HE3	1.88	0.54
1:C:580:ARG:HH11	1:C:614:GLY:HA3	1.73	0.54
1:C:763:SER:O	1:C:766:ASP:N	2.41	0.54
1:C:2458:ALA:HA	1:C:2824:ARG:HD2	1.89	0.54
1:D:763:SER:O	1:D:766:ASP:N	2.41	0.54
1:D:1420:THR:OG1	1:D:1485:HIS:NE2	2.38	0.54
1:F:1618:LEU:HG	1:F:1619:VAL:HG23	1.88	0.54
1:F:1734:SER:HA	1:F:1741:LEU:HD11	1.89	0.54
1:B:551:PRO:HG3	1:B:560:VAL:HG21	1.89	0.54
1:D:2012:GLY:C	1:E:2591:ARG:NH1	2.61	0.54
1:D:2743:ALA:HB3	1:D:2939:ALA:HB3	1.88	0.54
1:E:551:PRO:HG3	1:E:560:VAL:HG21	1.89	0.54
1:E:2417:SER:O	1:E:2421:ASP:N	2.40	0.54
1:B:273:ARG:HD2	1:B:282:VAL:HG12	1.90	0.54
1:B:1226:ARG:HB3	1:B:1282:THR:HG21	1.90	0.54
1:B:2551:PRO:O	1:B:2617:LEU:HB2	2.08	0.54
1:B:3018:LEU:O	1:B:3022:GLU:HB2	2.08	0.54
1:C:716:ALA:HA	1:C:719:VAL:HG23	1.90	0.54
1:C:1151:GLU:HB2	1:C:1179:ALA:HB3	1.90	0.54
1:D:580:ARG:HH11	1:D:614:GLY:HA3	1.72	0.54
1:D:624:TYR:HA	1:D:629:TRP:CD1	2.43	0.54
1:D:2731:GLY:HA2	1:C:2845:PHE:CD1	2.39	0.54
1:E:368:ILE:HG21	1:E:373:ILE:HG13	1.90	0.54
1:F:551:PRO:HG3	1:F:560:VAL:HG21	1.89	0.54
1:F:668:THR:OG1	1:F:698:ILE:HD11	2.08	0.54
1:F:737:TYR:HE1	1:F:862:VAL:HA	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1037:ASP:HB3	1:F:1042:MET:HG3	1.89	0.54
1:A:737:TYR:HE1	1:A:862:VAL:HA	1.72	0.54
1:A:763:SER:O	1:A:766:ASP:N	2.41	0.54
1:A:2551:PRO:O	1:A:2617:LEU:HB2	2.08	0.54
1:B:931:VAL:HG13	1:B:933:VAL:CG2	2.37	0.54
1:B:2012:GLY:C	1:C:2591:ARG:NH1	2.61	0.54
1:B:2768:ASP:OD2	1:B:2936:GLY:N	2.41	0.54
1:B:2860:ALA:HB1	1:B:3005:LEU:HD13	1.90	0.54
1:C:273:ARG:HD2	1:C:282:VAL:HG12	1.90	0.54
1:C:737:TYR:HE1	1:C:862:VAL:HA	1.72	0.54
1:C:1734:SER:HA	1:C:1741:LEU:HD11	1.89	0.54
1:C:2631:PRO:HG3	1:C:2649:LEU:HD13	1.90	0.54
1:D:716:ALA:HA	1:D:719:VAL:HG23	1.90	0.54
1:D:1734:SER:HA	1:D:1741:LEU:HD11	1.89	0.54
1:D:2551:PRO:O	1:D:2617:LEU:HB2	2.08	0.54
1:E:2551:PRO:O	1:E:2617:LEU:HB2	2.08	0.54
1:F:2731:GLY:HA2	1:A:2845:PHE:CD1	2.38	0.54
1:F:2860:ALA:HB1	1:F:3005:LEU:HD13	1.90	0.54
1:A:668:THR:OG1	1:A:698:ILE:HD11	2.08	0.54
1:C:1496:SER:HB3	1:C:1578:ASP:HB3	1.89	0.54
1:E:33:ALA:O	1:E:37:ARG:N	2.35	0.54
1:E:33:ALA:O	1:E:37:ARG:HG2	2.08	0.54
1:E:1151:GLU:HB2	1:E:1179:ALA:HB3	1.90	0.54
1:F:526:ILE:HD12	1:F:549:PHE:HB3	1.90	0.54
1:F:580:ARG:HH11	1:F:614:GLY:HA3	1.73	0.54
1:F:792:ALA:HA	1:F:799:PHE:CE2	2.43	0.54
1:F:1010:LEU:O	1:F:1017:ILE:N	2.30	0.54
1:F:1089:ALA:O	1:F:1091:LEU:N	2.42	0.54
1:F:3018:LEU:O	1:F:3022:GLU:HB2	2.08	0.54
1:A:624:TYR:HA	1:A:629:TRP:CD1	2.43	0.54
1:A:2768:ASP:OD2	1:A:2936:GLY:N	2.41	0.54
1:A:2860:ALA:HB1	1:A:3005:LEU:HD13	1.90	0.54
1:B:456:GLU:HG2	1:B:486:GLN:HE21	1.73	0.54
1:B:2810:GLY:HA2	1:B:2896:THR:HA	1.89	0.54
1:C:668:THR:OG1	1:C:698:ILE:HD11	2.08	0.54
1:C:2743:ALA:HB3	1:C:2939:ALA:HB3	1.89	0.54
1:D:1496:SER:HB3	1:D:1578:ASP:HB3	1.89	0.53
1:D:2591:ARG:NH1	1:F:2012:GLY:C	2.61	0.53
1:E:2768:ASP:OD2	1:E:2936:GLY:N	2.41	0.53
1:E:2860:ALA:HB1	1:E:3005:LEU:HD13	1.90	0.53
1:F:763:SER:O	1:F:766:ASP:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2768:ASP:OD2	1:F:2936:GLY:N	2.41	0.53
1:A:368:ILE:HG21	1:A:373:ILE:HG13	1.90	0.53
1:A:1226:ARG:HB3	1:A:1282:THR:HG21	1.90	0.53
1:B:526:ILE:HD12	1:B:549:PHE:HB3	1.90	0.53
1:B:668:THR:OG1	1:B:698:ILE:HD11	2.08	0.53
1:C:2551:PRO:O	1:C:2617:LEU:HB2	2.08	0.53
1:C:2768:ASP:OD2	1:C:2936:GLY:N	2.41	0.53
1:C:2860:ALA:HB1	1:C:3005:LEU:HD13	1.90	0.53
1:D:1089:ALA:O	1:D:1091:LEU:N	2.42	0.53
1:D:2246:ALA:C	1:D:2255:ARG:HH12	2.11	0.53
1:D:2860:ALA:HB1	1:D:3005:LEU:HD13	1.90	0.53
1:E:624:TYR:HA	1:E:629:TRP:CD1	2.43	0.53
1:E:1323:GLU:N	1:E:1343:LEU:O	2.41	0.53
1:E:2246:ALA:C	1:E:2255:ARG:HH12	2.11	0.53
1:F:2810:GLY:HA2	1:F:2896:THR:HA	1.89	0.53
1:A:1174:VAL:HB	1:A:1188:LEU:HB3	1.91	0.53
1:A:2012:GLY:C	1:B:2591:ARG:NH1	2.61	0.53
1:A:2492:VAL:HG21	1:A:2527:VAL:HG22	1.90	0.53
1:C:624:TYR:HA	1:C:629:TRP:CD1	2.43	0.53
1:C:1488:VAL:HG12	1:C:1490:ARG:HH11	1.73	0.53
1:C:2492:VAL:HG21	1:C:2527:VAL:HG22	1.90	0.53
1:F:1385:ARG:HD2	1:F:2407:GLU:OE1	2.08	0.53
1:F:2246:ALA:C	1:F:2255:ARG:HH12	2.12	0.53
1:A:716:ALA:HA	1:A:719:VAL:HG23	1.90	0.53
1:A:2591:ARG:NH1	1:C:2012:GLY:C	2.61	0.53
1:B:580:ARG:HH11	1:B:614:GLY:HA3	1.72	0.53
1:B:745:THR:HG23	1:B:834:GLU:HA	1.90	0.53
1:B:1151:GLU:HB2	1:B:1179:ALA:HB3	1.90	0.53
1:B:1618:LEU:HG	1:B:1619:VAL:HG23	1.88	0.53
1:B:2492:VAL:HG21	1:B:2527:VAL:HG22	1.90	0.53
1:C:2653:VAL:HA	1:C:3051:MET:HE3	1.90	0.53
1:D:1425:VAL:HG13	1:D:1474:LEU:HD13	1.91	0.53
1:E:1226:ARG:HB3	1:E:1282:THR:HG21	1.90	0.53
1:E:1420:THR:OG1	1:E:1485:HIS:NE2	2.38	0.53
1:A:745:THR:HG23	1:A:834:GLU:HA	1.90	0.53
1:A:1148:GLU:O	1:A:1150:ALA:N	2.42	0.53
1:B:1734:SER:HA	1:B:1741:LEU:HD11	1.89	0.53
1:B:2103:TRP:CG	1:B:2919:GLY:O	2.62	0.53
1:B:2303:ASP:N	1:B:2303:ASP:OD1	2.39	0.53
1:C:368:ILE:HG21	1:C:373:ILE:HG13	1.90	0.53
1:C:1089:ALA:O	1:C:1091:LEU:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1425:VAL:HG13	1:C:1474:LEU:HD13	1.91	0.53
1:D:745:THR:HG23	1:D:834:GLU:HA	1.90	0.53
1:D:2103:TRP:CG	1:D:2919:GLY:O	2.62	0.53
1:D:3018:LEU:O	1:D:3022:GLU:HB2	2.08	0.53
1:E:526:ILE:HD12	1:E:549:PHE:HB3	1.90	0.53
1:E:763:SER:O	1:E:766:ASP:N	2.41	0.53
1:E:2492:VAL:HG21	1:E:2527:VAL:HG22	1.90	0.53
1:E:3018:LEU:O	1:E:3022:GLU:HB2	2.08	0.53
1:F:273:ARG:HD2	1:F:282:VAL:HG12	1.90	0.53
1:F:624:TYR:HA	1:F:629:TRP:CD1	2.43	0.53
1:F:1151:GLU:HB2	1:F:1179:ALA:HB3	1.90	0.53
1:F:2103:TRP:CG	1:F:2919:GLY:O	2.62	0.53
1:A:71:GLU:HG2	1:A:142:ARG:NH2	2.24	0.53
1:B:624:TYR:HA	1:B:629:TRP:CD1	2.43	0.53
1:B:763:SER:O	1:B:766:ASP:N	2.41	0.53
1:B:1357:ILE:HG13	1:B:1710:THR:HG21	1.89	0.53
1:C:1530:LEU:HD21	1:C:1554:LEU:HD22	1.91	0.53
1:D:1357:ILE:HG13	1:D:1710:THR:HG21	1.89	0.53
1:D:2418:GLY:O	1:D:2422:GLU:N	2.40	0.53
1:D:2583:PHE:HD1	1:C:2614:LYS:HZ1	1.51	0.53
1:E:931:VAL:HG13	1:E:933:VAL:CG1	2.37	0.53
1:E:2631:PRO:HG3	1:E:2649:LEU:HD13	1.90	0.53
1:F:1174:VAL:HB	1:F:1188:LEU:HB3	1.91	0.53
1:A:588:GLU:HB3	1:A:593:LEU:HD11	1.91	0.53
1:A:1323:GLU:N	1:A:1343:LEU:O	2.42	0.53
1:A:2246:ALA:C	1:A:2255:ARG:HH12	2.12	0.53
1:B:1010:LEU:O	1:B:1017:ILE:N	2.29	0.53
1:B:2631:PRO:HG3	1:B:2649:LEU:HD13	1.90	0.53
1:C:2087:GLN:HA	1:C:2090:GLU:CG	2.39	0.53
1:D:1530:LEU:HD21	1:D:1554:LEU:HD22	1.91	0.53
1:D:2753:LYS:HZ2	1:C:2748:GLU:HG2	1.73	0.53
1:E:745:THR:HG23	1:E:834:GLU:HA	1.90	0.53
1:E:1174:VAL:HB	1:E:1188:LEU:HB3	1.91	0.53
1:E:1425:VAL:HG13	1:E:1474:LEU:HD13	1.91	0.53
1:F:2087:GLN:HA	1:F:2090:GLU:CG	2.39	0.53
1:A:273:ARG:HD2	1:A:282:VAL:HG12	1.90	0.53
1:A:1089:ALA:O	1:A:1091:LEU:N	2.42	0.53
1:C:71:GLU:HG2	1:C:142:ARG:NH2	2.24	0.53
1:D:2693:GLN:O	1:D:2697:HIS:ND1	2.33	0.53
1:E:273:ARG:HD2	1:E:282:VAL:HG12	1.90	0.53
1:E:588:GLU:HB3	1:E:593:LEU:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2103:TRP:CG	1:E:2919:GLY:O	2.62	0.53
1:E:2215:THR:HG22	1:E:2216:GLU:HG3	1.91	0.53
1:F:716:ALA:HA	1:F:719:VAL:HG23	1.90	0.53
1:F:958:TRP:HD1	1:F:958:TRP:H	1.56	0.53
1:F:1020:THR:HB	1:F:1035:VAL:HG22	1.90	0.53
1:F:2492:VAL:HG21	1:F:2527:VAL:HG22	1.90	0.53
1:A:1425:VAL:HG13	1:A:1474:LEU:HD13	1.91	0.53
1:A:1634:ARG:HD2	1:A:1638:PRO:HA	1.91	0.53
1:A:2087:GLN:HA	1:A:2090:GLU:CG	2.39	0.53
1:A:2089:PHE:HA	1:A:2188:ARG:HH11	1.74	0.53
1:B:2246:ALA:C	1:B:2255:ARG:HH12	2.11	0.53
1:D:526:ILE:HD12	1:D:549:PHE:HB3	1.90	0.53
1:D:2087:GLN:HA	1:D:2090:GLU:CG	2.39	0.53
1:F:745:THR:HG23	1:F:834:GLU:HA	1.90	0.53
1:F:2551:PRO:O	1:F:2617:LEU:HB2	2.08	0.53
1:A:456:GLU:HG2	1:A:486:GLN:HE21	1.73	0.53
1:A:2103:TRP:CG	1:A:2919:GLY:O	2.62	0.53
1:B:368:ILE:HG21	1:B:373:ILE:HG13	1.90	0.53
1:B:1148:GLU:O	1:B:1150:ALA:N	2.42	0.53
1:B:2417:SER:O	1:B:2421:ASP:N	2.40	0.53
1:C:456:GLU:HG2	1:C:486:GLN:HE21	1.73	0.53
1:C:1357:ILE:HG13	1:C:1710:THR:HG21	1.89	0.53
1:D:1226:ARG:HB3	1:D:1282:THR:HG21	1.90	0.53
1:E:1634:ARG:HD2	1:E:1638:PRO:HA	1.91	0.53
1:E:2087:GLN:HA	1:E:2090:GLU:CG	2.39	0.53
1:F:1042:MET:O	1:F:1045:VAL:N	2.34	0.53
1:F:1385:ARG:CD	1:F:2407:GLU:OE2	2.56	0.53
1:F:2631:PRO:HG3	1:F:2649:LEU:HD13	1.90	0.53
1:A:1225:ARG:CG	1:A:1283:ASP:OD1	2.57	0.53
1:C:526:ILE:HD12	1:C:549:PHE:HB3	1.90	0.53
1:C:1010:LEU:O	1:C:1017:ILE:N	2.29	0.53
1:D:456:GLU:HG2	1:D:486:GLN:HE21	1.73	0.52
1:D:1151:GLU:HB2	1:D:1179:ALA:HB3	1.90	0.52
1:D:2492:VAL:HG21	1:D:2527:VAL:HG22	1.90	0.52
1:D:2631:PRO:HG3	1:D:2649:LEU:HD13	1.90	0.52
1:D:2768:ASP:OD2	1:D:2936:GLY:N	2.41	0.52
1:E:411:PRO:HD2	1:E:1025:VAL:HG11	1.91	0.52
1:E:456:GLU:HG2	1:E:486:GLN:HE21	1.73	0.52
1:E:1089:ALA:O	1:E:1091:LEU:N	2.42	0.52
1:F:2417:SER:O	1:F:2421:ASP:N	2.40	0.52
1:A:776:ASP:O	1:A:779:TRP:N	2.31	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1538:ARG:NH1	1:A:1722:PRO:HB3	2.18	0.52
1:B:411:PRO:HD2	1:B:1025:VAL:HG11	1.91	0.52
1:B:716:ALA:HA	1:B:719:VAL:HG23	1.90	0.52
1:B:2653:VAL:HA	1:B:3051:MET:HE3	1.90	0.52
1:C:745:THR:HG23	1:C:834:GLU:HA	1.90	0.52
1:C:3018:LEU:O	1:C:3022:GLU:HB2	2.08	0.52
1:D:961:ARG:NH2	1:D:1196:GLY:O	2.42	0.52
1:D:1148:GLU:O	1:D:1150:ALA:N	2.42	0.52
1:D:1323:GLU:N	1:D:1343:LEU:O	2.41	0.52
1:D:2458:ALA:HA	1:D:2824:ARG:HD2	1.89	0.52
1:E:716:ALA:HA	1:E:719:VAL:HG23	1.90	0.52
1:F:208:VAL:HG12	1:F:248:ILE:HG12	1.92	0.52
1:F:368:ILE:HG21	1:F:373:ILE:HG13	1.90	0.52
1:F:1225:ARG:CG	1:F:1283:ASP:OD1	2.57	0.52
1:A:176:VAL:O	1:A:180:ALA:N	2.36	0.52
1:A:208:VAL:HG12	1:A:248:ILE:HG12	1.91	0.52
1:A:411:PRO:HD2	1:A:1025:VAL:HG11	1.91	0.52
1:A:931:VAL:HG13	1:A:933:VAL:CG1	2.37	0.52
1:C:33:ALA:O	1:C:37:ARG:HG2	2.08	0.52
1:C:1323:GLU:N	1:C:1343:LEU:O	2.41	0.52
1:D:1488:VAL:HG12	1:D:1490:ARG:HH11	1.73	0.52
1:D:2737:VAL:HG21	1:C:2715:PRO:HB2	1.92	0.52
1:D:2740:CYS:HB2	1:D:2998:GLY:HA2	1.92	0.52
1:E:1119:THR:O	1:E:1123:PHE:HB2	2.10	0.52
1:E:2089:PHE:HA	1:E:2188:ARG:HH11	1.74	0.52
1:F:1148:GLU:O	1:F:1150:ALA:N	2.42	0.52
1:A:1110:VAL:HG13	1:A:1172:VAL:HG11	1.92	0.52
1:A:1151:GLU:HB2	1:A:1179:ALA:HB3	1.90	0.52
1:B:1733:ASN:HD22	1:B:1736:ARG:HD2	1.74	0.52
1:B:2808:ARG:HB2	1:B:2895:SER:O	2.10	0.52
1:C:144:GLY:O	1:C:148:THR:N	2.33	0.52
1:C:1225:ARG:CG	1:C:1283:ASP:OD1	2.57	0.52
1:C:1733:ASN:HD22	1:C:1736:ARG:HD2	1.74	0.52
1:C:2246:ALA:C	1:C:2255:ARG:HH12	2.11	0.52
1:D:411:PRO:HD2	1:D:1025:VAL:HG11	1.91	0.52
1:D:792:ALA:HA	1:D:799:PHE:CE2	2.43	0.52
1:D:1225:ARG:CG	1:D:1283:ASP:OD1	2.57	0.52
1:D:1634:ARG:HD2	1:D:1638:PRO:HA	1.91	0.52
1:D:2715:PRO:HB2	1:C:2737:VAL:HG21	1.92	0.52
1:E:1093:PRO:HB3	1:E:1277:HIS:HE1	1.75	0.52
1:E:2962:ASP:OD1	1:E:2962:ASP:N	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:33:ALA:O	1:F:37:ARG:HG2	2.09	0.52
1:F:71:GLU:HG2	1:F:142:ARG:NH2	2.24	0.52
1:F:958:TRP:NE1	1:F:961:ARG:HB2	2.25	0.52
1:F:1037:ASP:CB	1:F:1042:MET:H	2.23	0.52
1:F:1634:ARG:HD2	1:F:1638:PRO:HA	1.91	0.52
1:F:2418:GLY:O	1:F:2422:GLU:N	2.40	0.52
1:F:2737:VAL:HG21	1:A:2715:PRO:HB2	1.91	0.52
1:A:33:ALA:O	1:A:37:ARG:HG2	2.08	0.52
1:A:2215:THR:HG22	1:A:2216:GLU:HG3	1.91	0.52
1:B:33:ALA:O	1:B:37:ARG:HG2	2.08	0.52
1:B:1225:ARG:CG	1:B:1283:ASP:OD1	2.57	0.52
1:B:1488:VAL:HG12	1:B:1490:ARG:HH11	1.74	0.52
1:C:1148:GLU:O	1:C:1150:ALA:N	2.42	0.52
1:E:208:VAL:HG12	1:E:248:ILE:HG12	1.92	0.52
1:E:1148:GLU:O	1:E:1150:ALA:N	2.42	0.52
1:F:456:GLU:HG2	1:F:486:GLN:HE21	1.73	0.52
1:F:1021:LEU:CD2	1:F:1034:GLU:CG	2.81	0.52
1:F:1037:ASP:HA	1:F:1038:ALA:C	2.26	0.52
1:F:1420:THR:OG1	1:F:1485:HIS:NE2	2.39	0.52
1:A:526:ILE:HD12	1:A:549:PHE:HB3	1.90	0.52
1:A:542:VAL:HG11	1:A:964:VAL:HB	1.92	0.52
1:A:930:PRO:CG	1:A:930:PRO:O	2.57	0.52
1:A:1733:ASN:HD22	1:A:1736:ARG:HD2	1.74	0.52
1:A:3018:LEU:O	1:A:3022:GLU:HB2	2.08	0.52
1:B:1174:VAL:HB	1:B:1188:LEU:HB3	1.91	0.52
1:B:1323:GLU:N	1:B:1343:LEU:O	2.42	0.52
1:C:400:TRP:CZ3	1:C:636:PRO:HB2	2.45	0.52
1:C:1634:ARG:HD2	1:C:1638:PRO:HA	1.91	0.52
1:C:2089:PHE:HA	1:C:2188:ARG:HH11	1.74	0.52
1:C:2103:TRP:CG	1:C:2919:GLY:O	2.62	0.52
1:E:71:GLU:HG2	1:E:142:ARG:NH2	2.24	0.52
1:E:106:ALA:O	1:E:112:PRO:HD2	2.10	0.52
1:E:208:VAL:HB	1:E:255:LEU:HD13	1.92	0.52
1:E:400:TRP:CZ3	1:E:636:PRO:HB2	2.45	0.52
1:E:542:VAL:HG11	1:E:964:VAL:HB	1.92	0.52
1:E:2418:GLY:O	1:E:2422:GLU:N	2.40	0.52
1:F:931:VAL:HG13	1:F:933:VAL:HG13	1.92	0.52
1:F:960:GLY:CA	1:F:1126:ILE:HD13	2.39	0.52
1:F:1110:VAL:HG13	1:F:1172:VAL:HG11	1.92	0.52
1:F:1385:ARG:CD	1:F:2407:GLU:CD	2.73	0.52
1:F:1733:ASN:HD22	1:F:1736:ARG:HD2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2552:ASP:OD1	1:F:2552:ASP:N	2.43	0.52
1:A:208:VAL:HB	1:A:255:LEU:HD13	1.92	0.52
1:A:400:TRP:CZ3	1:A:636:PRO:HB2	2.45	0.52
1:B:1089:ALA:O	1:B:1091:LEU:N	2.41	0.52
1:B:2698:GLY:HA3	1:B:2705:LYS:HG3	1.92	0.52
1:C:1226:ARG:HB3	1:C:1282:THR:HG21	1.90	0.52
1:C:2808:ARG:HB2	1:C:2895:SER:O	2.10	0.52
1:C:2962:ASP:OD1	1:C:2962:ASP:N	2.34	0.52
1:D:588:GLU:HB3	1:D:593:LEU:HD11	1.91	0.52
1:D:1093:PRO:HB3	1:D:1277:HIS:HE1	1.75	0.52
1:D:1622:PRO:HD3	1:D:1685:LEU:HD21	1.92	0.52
1:E:1110:VAL:HG13	1:E:1172:VAL:HG11	1.92	0.52
1:E:1287:VAL:O	1:E:1291:LYS:HG3	2.10	0.52
1:F:2715:PRO:HB2	1:A:2737:VAL:HG21	1.92	0.52
1:A:2740:CYS:HB2	1:A:2998:GLY:HA2	1.92	0.52
1:B:1530:LEU:HD21	1:B:1554:LEU:HD22	1.91	0.52
1:B:1695:LEU:HD23	1:C:257:ARG:NH1	2.23	0.52
1:B:2552:ASP:OD1	1:B:2552:ASP:N	2.43	0.52
1:C:588:GLU:HB3	1:C:593:LEU:HD11	1.91	0.52
1:D:2215:THR:HG22	1:D:2216:GLU:HG3	1.91	0.52
1:E:930:PRO:CG	1:E:930:PRO:O	2.57	0.52
1:E:1225:ARG:CG	1:E:1283:ASP:OD1	2.57	0.52
1:E:1538:ARG:NH1	1:E:1722:PRO:HB3	2.18	0.52
1:F:33:ALA:O	1:F:37:ARG:N	2.35	0.52
1:F:206:PRO:HG2	1:F:294:VAL:HA	1.92	0.52
1:F:400:TRP:CZ3	1:F:636:PRO:HB2	2.45	0.52
1:F:2698:GLY:HA3	1:F:2705:LYS:HG3	1.92	0.52
1:A:577:GLU:OE2	2:A:4000:FMN:O3'	2.28	0.52
1:A:1164:THR:HA	1:A:1204:THR:O	2.10	0.52
1:A:2631:PRO:HG3	1:A:2649:LEU:HD13	1.90	0.52
1:B:206:PRO:HG2	1:B:294:VAL:HA	1.92	0.52
1:B:208:VAL:HG12	1:B:248:ILE:HG12	1.92	0.52
1:B:400:TRP:CZ3	1:B:636:PRO:HB2	2.45	0.52
1:B:588:GLU:HB3	1:B:593:LEU:HD11	1.91	0.52
1:B:961:ARG:NH2	1:B:1196:GLY:O	2.42	0.52
1:B:1119:THR:O	1:B:1123:PHE:HB2	2.10	0.52
1:B:1287:VAL:O	1:B:1291:LYS:HG3	2.10	0.52
1:B:2089:PHE:HA	1:B:2188:ARG:HH11	1.74	0.52
1:C:411:PRO:HD2	1:C:1025:VAL:HG11	1.91	0.52
1:C:1174:VAL:HB	1:C:1188:LEU:HB3	1.91	0.52
1:D:931:VAL:HG13	1:D:933:VAL:HG13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1110:VAL:HG13	1:D:1172:VAL:HG11	1.92	0.52
1:E:961:ARG:NH2	1:E:1196:GLY:O	2.42	0.52
1:F:411:PRO:HD2	1:F:1025:VAL:HG11	1.91	0.52
1:F:588:GLU:HB3	1:F:593:LEU:HD11	1.91	0.52
1:F:1394:HIS:CE1	1:C:2324:LYS:CE	2.93	0.52
1:F:2180:LYS:HZ1	1:F:2962:ASP:HB3	1.75	0.52
1:A:1622:PRO:HD3	1:A:1685:LEU:HD21	1.92	0.52
1:B:2215:THR:HG22	1:B:2216:GLU:HG3	1.91	0.52
1:C:1622:PRO:HD3	1:C:1685:LEU:HD21	1.92	0.52
1:D:2089:PHE:HA	1:D:2188:ARG:HH11	1.74	0.52
1:D:3000:GLY:HA3	1:C:2720:ALA:HB1	1.92	0.52
1:E:931:VAL:HG13	1:E:933:VAL:HG13	1.92	0.52
1:E:2715:PRO:HB2	1:B:2737:VAL:HG21	1.92	0.52
1:F:336:TRP:CE2	1:F:360:LEU:HD11	2.46	0.52
1:F:1323:GLU:N	1:F:1343:LEU:O	2.41	0.52
1:F:1622:PRO:HD3	1:F:1685:LEU:HD21	1.92	0.52
1:A:420:LYS:HB3	1:A:641:ASP:OD2	2.10	0.52
1:A:1530:LEU:HD21	1:A:1554:LEU:HD22	1.91	0.52
1:B:405:PRO:HG3	1:B:625:LEU:HG	1.92	0.52
1:B:542:VAL:HG11	1:B:964:VAL:HB	1.92	0.52
1:B:1110:VAL:HG13	1:B:1172:VAL:HG11	1.92	0.52
1:C:106:ALA:O	1:C:112:PRO:HD2	2.10	0.52
1:C:961:ARG:NH2	1:C:1196:GLY:O	2.42	0.52
1:D:1598:GLU:HG2	1:D:1666:ILE:HD13	1.93	0.51
1:D:2720:ALA:HB1	1:C:3000:GLY:HA3	1.92	0.51
1:E:3074:LEU:HB2	1:B:2861:LEU:HD13	1.92	0.51
1:F:1634:ARG:HH11	1:F:1639:ALA:N	2.08	0.51
1:F:2089:PHE:HA	1:F:2188:ARG:HH11	1.74	0.51
1:A:508:GLN:HA	1:A:540:ASN:HB3	1.92	0.51
1:A:1287:VAL:O	1:A:1291:LYS:HG3	2.10	0.51
1:A:2554:ALA:HB1	1:A:2614:LYS:HZ2	1.73	0.51
1:A:2790:MET:HG2	1:A:2809:LEU:HD11	1.93	0.51
1:B:792:ALA:HA	1:B:799:PHE:CE2	2.43	0.51
1:B:1425:VAL:HG13	1:B:1474:LEU:HD13	1.91	0.51
1:B:2087:GLN:HA	1:B:2090:GLU:CG	2.39	0.51
1:C:1598:GLU:HG2	1:C:1666:ILE:HD13	1.93	0.51
1:D:1174:VAL:HB	1:D:1188:LEU:HB3	1.91	0.51
1:E:70:SER:HG	1:E:142:ARG:HH22	1.54	0.51
1:E:1733:ASN:HD22	1:E:1736:ARG:HD2	1.74	0.51
1:E:2401:ILE:HG23	1:E:2403:ILE:H	1.75	0.51
1:F:1226:ARG:HB3	1:F:1282:THR:HG21	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2215:THR:HG22	1:F:2216:GLU:HG3	1.91	0.51
1:F:3000:GLY:HA3	1:A:2720:ALA:HB1	1.92	0.51
1:F:3074:LEU:HB2	1:A:2861:LEU:HD13	1.92	0.51
1:A:1695:LEU:HD23	1:B:257:ARG:NH1	2.23	0.51
1:B:1164:THR:HA	1:B:1204:THR:O	2.10	0.51
1:B:2236:LEU:HD23	1:B:2288:HIS:HB2	1.92	0.51
1:C:208:VAL:HB	1:C:255:LEU:HD13	1.92	0.51
1:C:420:LYS:HB3	1:C:641:ASP:OD2	2.10	0.51
1:C:577:GLU:OE2	2:C:4000:FMN:O3'	2.28	0.51
1:D:746:TYR:HA	1:D:749:TRP:HD1	1.76	0.51
1:D:1119:THR:O	1:D:1123:PHE:HB2	2.10	0.51
1:E:1530:LEU:HD21	1:E:1554:LEU:HD22	1.91	0.51
1:E:2236:LEU:HD23	1:E:2288:HIS:HB2	1.92	0.51
1:E:2690:THR:O	1:E:2693:GLN:HG2	2.11	0.51
1:E:2740:CYS:HB2	1:E:2998:GLY:HA2	1.91	0.51
1:F:420:LYS:HB3	1:F:641:ASP:OD2	2.10	0.51
1:F:577:GLU:OE2	2:F:4000:FMN:O3'	2.28	0.51
1:F:1093:PRO:HB3	1:F:1277:HIS:HE1	1.75	0.51
1:A:206:PRO:HG2	1:A:294:VAL:HA	1.92	0.51
1:A:2401:ILE:HG23	1:A:2403:ILE:H	1.75	0.51
1:B:208:VAL:HB	1:B:255:LEU:HD13	1.92	0.51
1:B:420:LYS:HB3	1:B:641:ASP:OD2	2.10	0.51
1:C:1287:VAL:O	1:C:1291:LYS:HG3	2.10	0.51
1:C:2215:THR:HG22	1:C:2216:GLU:HG3	1.91	0.51
1:C:2236:LEU:HD23	1:C:2288:HIS:HB2	1.92	0.51
1:D:1287:VAL:O	1:D:1291:LYS:HG3	2.10	0.51
1:D:2846:ALA:N	1:C:2731:GLY:O	2.44	0.51
1:E:508:GLN:HA	1:E:540:ASN:HB3	1.92	0.51
1:E:792:ALA:HA	1:E:799:PHE:CE2	2.43	0.51
1:E:2583:PHE:HD1	1:B:2614:LYS:HZ1	1.53	0.51
1:E:2808:ARG:HB2	1:E:2895:SER:O	2.10	0.51
1:F:2740:CYS:HB2	1:F:2998:GLY:HA2	1.92	0.51
1:F:2861:LEU:HD13	1:A:3074:LEU:HB2	1.92	0.51
1:A:931:VAL:HG13	1:A:933:VAL:HG13	1.91	0.51
1:A:961:ARG:NH2	1:A:1196:GLY:O	2.42	0.51
1:A:1317:GLY:H	1:A:1324:VAL:HG12	1.76	0.51
1:A:2690:THR:O	1:A:2693:GLN:HG2	2.11	0.51
1:B:106:ALA:O	1:B:112:PRO:HD2	2.10	0.51
1:B:336:TRP:CE2	1:B:360:LEU:HD11	2.45	0.51
1:C:2552:ASP:N	1:C:2552:ASP:OD1	2.43	0.51
1:E:272:GLU:HB3	1:E:280:GLY:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:420:LYS:HB3	1:E:641:ASP:OD2	2.10	0.51
1:E:746:TYR:HA	1:E:749:TRP:HD1	1.76	0.51
1:E:1164:THR:HA	1:E:1204:THR:O	2.10	0.51
1:E:2731:GLY:O	1:B:2846:ALA:N	2.44	0.51
1:E:2754:ILE:HA	1:E:2759:ALA:O	2.11	0.51
1:E:2790:MET:HG2	1:E:2809:LEU:HD11	1.93	0.51
1:F:1119:THR:O	1:F:1123:PHE:HB2	2.10	0.51
1:F:1287:VAL:O	1:F:1291:LYS:HG3	2.10	0.51
1:F:2690:THR:O	1:F:2693:GLN:HG2	2.11	0.51
1:A:106:ALA:O	1:A:112:PRO:HD2	2.10	0.51
1:A:1119:THR:O	1:A:1123:PHE:HB2	2.10	0.51
1:A:1488:VAL:HG12	1:A:1490:ARG:HH11	1.73	0.51
1:B:1093:PRO:HB3	1:B:1277:HIS:HE1	1.74	0.51
1:D:542:VAL:HG11	1:D:964:VAL:HB	1.92	0.51
1:D:577:GLU:OE2	2:D:4000:FMN:O3'	2.28	0.51
1:D:1317:GLY:H	1:D:1324:VAL:HG12	1.76	0.51
1:E:577:GLU:OE2	2:E:4000:FMN:O3'	2.28	0.51
1:E:1488:VAL:HG12	1:E:1490:ARG:HH11	1.73	0.51
1:E:1622:PRO:HD3	1:E:1685:LEU:HD21	1.92	0.51
1:E:2720:ALA:HB1	1:B:3000:GLY:HA3	1.92	0.51
1:F:272:GLU:HB3	1:F:280:GLY:O	2.11	0.51
1:F:3080:ARG:HG3	1:F:3080:ARG:NH1	2.09	0.51
1:A:746:TYR:HA	1:A:749:TRP:HD1	1.76	0.51
1:B:71:GLU:HG2	1:B:142:ARG:NH2	2.24	0.51
1:C:42:GLU:H	1:C:42:GLU:CD	2.14	0.51
1:C:746:TYR:HA	1:C:749:TRP:HD1	1.76	0.51
1:C:1093:PRO:HB3	1:C:1277:HIS:HE1	1.75	0.51
1:C:2698:GLY:HA3	1:C:2705:LYS:HG3	1.92	0.51
1:D:1010:LEU:O	1:D:1017:ILE:N	2.29	0.51
1:E:780:ARG:HD2	1:E:816:LEU:HB3	1.93	0.51
1:F:1530:LEU:HD21	1:F:1554:LEU:HD22	1.91	0.51
1:A:336:TRP:CE2	1:A:360:LEU:HD11	2.46	0.51
1:B:577:GLU:OE2	2:B:4000:FMN:O3'	2.28	0.51
1:B:2740:CYS:HB2	1:B:2998:GLY:HA2	1.91	0.51
1:C:542:VAL:HG11	1:C:964:VAL:HB	1.92	0.51
1:C:780:ARG:HD2	1:C:816:LEU:HB3	1.93	0.51
1:C:1110:VAL:HG13	1:C:1172:VAL:HG11	1.92	0.51
1:C:1164:THR:HA	1:C:1204:THR:O	2.10	0.51
1:C:2690:THR:O	1:C:2693:GLN:HG2	2.11	0.51
1:C:2740:CYS:HB2	1:C:2998:GLY:HA2	1.91	0.51
1:D:508:GLN:HA	1:D:540:ASN:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2861:LEU:HD13	1:C:3074:LEU:HB2	1.92	0.51
1:F:208:VAL:HB	1:F:255:LEU:HD13	1.92	0.51
1:F:405:PRO:HG3	1:F:625:LEU:HG	1.92	0.51
1:F:542:VAL:HG11	1:F:964:VAL:HB	1.92	0.51
1:F:1425:VAL:HG13	1:F:1474:LEU:HD13	1.91	0.51
1:F:2731:GLY:O	1:A:2846:ALA:N	2.44	0.51
1:F:2808:ARG:HB2	1:F:2895:SER:O	2.10	0.51
1:A:1093:PRO:HB3	1:A:1277:HIS:HE1	1.75	0.51
1:B:931:VAL:HG13	1:B:933:VAL:HG23	1.92	0.51
1:B:1634:ARG:HD2	1:B:1638:PRO:HA	1.91	0.51
1:C:405:PRO:HG3	1:C:625:LEU:HG	1.93	0.51
1:C:792:ALA:HA	1:C:799:PHE:CE2	2.43	0.51
1:C:2401:ILE:HG23	1:C:2403:ILE:H	1.76	0.51
1:D:780:ARG:HD2	1:D:816:LEU:HB3	1.93	0.51
1:D:2401:ILE:HG23	1:D:2403:ILE:H	1.76	0.51
1:D:2698:GLY:HA3	1:D:2705:LYS:HG3	1.92	0.51
1:E:2737:VAL:HG21	1:B:2715:PRO:HB2	1.91	0.51
1:F:1164:THR:HA	1:F:1204:THR:O	2.10	0.51
1:A:2417:SER:O	1:A:2421:ASP:N	2.40	0.51
1:A:2667:THR:HG21	1:A:3058:ARG:HH11	1.76	0.51
1:A:2808:ARG:HB2	1:A:2895:SER:O	2.10	0.51
1:B:42:GLU:CD	1:B:42:GLU:H	2.14	0.51
1:D:2361:VAL:HG11	1:D:2398:LEU:HD23	1.93	0.51
1:D:2808:ARG:HB2	1:D:2895:SER:O	2.10	0.51
1:E:2554:ALA:HB1	1:E:2614:LYS:HZ2	1.75	0.51
1:F:1317:GLY:H	1:F:1324:VAL:HG12	1.76	0.51
1:F:1488:VAL:HG12	1:F:1490:ARG:HH11	1.73	0.51
1:F:3080:ARG:CG	1:F:3080:ARG:NH1	2.72	0.51
1:A:42:GLU:H	1:A:42:GLU:CD	2.14	0.51
1:A:2418:GLY:O	1:A:2422:GLU:N	2.40	0.51
1:B:1598:GLU:HG2	1:B:1666:ILE:HD13	1.93	0.51
1:B:2140:VAL:HG22	1:B:2165:ILE:HD12	1.93	0.51
1:B:2667:THR:HG21	1:B:3058:ARG:HH11	1.76	0.51
1:B:2754:ILE:HA	1:B:2759:ALA:O	2.11	0.51
1:C:1119:THR:O	1:C:1123:PHE:HB2	2.10	0.51
1:D:420:LYS:HB3	1:D:641:ASP:OD2	2.10	0.50
1:E:336:TRP:CE2	1:E:360:LEU:HD11	2.45	0.50
1:E:1317:GLY:H	1:E:1324:VAL:HG12	1.76	0.50
1:E:3000:GLY:HA3	1:B:2720:ALA:HB1	1.92	0.50
1:F:2236:LEU:HD23	1:F:2288:HIS:HB2	1.92	0.50
1:F:2401:ILE:HG23	1:F:2403:ILE:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2846:ALA:N	1:A:2731:GLY:O	2.44	0.50
1:A:1986:LEU:HA	1:A:1989:PHE:HD2	1.77	0.50
1:A:2552:ASP:OD1	1:A:2552:ASP:N	2.43	0.50
1:B:2790:MET:HG2	1:B:2809:LEU:HD11	1.93	0.50
1:B:2829:LEU:HD21	1:B:3014:PHE:HE2	1.76	0.50
1:C:1317:GLY:H	1:C:1324:VAL:HG12	1.76	0.50
1:D:930:PRO:CG	1:D:930:PRO:O	2.57	0.50
1:D:1164:THR:HA	1:D:1204:THR:O	2.10	0.50
1:D:1986:LEU:HA	1:D:1989:PHE:HD2	1.76	0.50
1:D:2245:VAL:HG13	1:D:2255:ARG:CZ	2.41	0.50
1:D:2754:ILE:HA	1:D:2759:ALA:O	2.11	0.50
1:E:2056:PHE:CZ	1:E:2180:LYS:HE2	2.47	0.50
1:E:2662:SER:HB2	1:E:2833:LEU:HD22	1.93	0.50
1:E:2667:THR:HG21	1:E:3058:ARG:HH11	1.76	0.50
1:E:2861:LEU:HD13	1:B:3074:LEU:HB2	1.92	0.50
1:F:42:GLU:H	1:F:42:GLU:CD	2.14	0.50
1:F:106:ALA:O	1:F:112:PRO:HD2	2.10	0.50
1:F:746:TYR:HA	1:F:749:TRP:HD1	1.76	0.50
1:F:1037:ASP:OD1	1:F:1043:ARG:HG3	2.06	0.50
1:F:2753:LYS:HZ2	1:A:2748:GLU:HG2	1.77	0.50
1:A:2140:VAL:HG22	1:A:2165:ILE:HD12	1.93	0.50
1:A:2698:GLY:HA3	1:A:2705:LYS:HG3	1.92	0.50
1:B:272:GLU:HB3	1:B:280:GLY:O	2.11	0.50
1:B:1331:ILE:HG13	1:B:1336:VAL:HG21	1.94	0.50
1:B:1590:VAL:HG11	1:B:1671:TRP:CD2	2.47	0.50
1:B:1634:ARG:HH11	1:B:1639:ALA:N	2.08	0.50
1:C:336:TRP:CE2	1:C:360:LEU:HD11	2.45	0.50
1:C:1986:LEU:HA	1:C:1989:PHE:HD2	1.77	0.50
1:C:2790:MET:HG2	1:C:2809:LEU:HD11	1.93	0.50
1:D:1733:ASN:HD22	1:D:1736:ARG:HD2	1.74	0.50
1:D:2236:LEU:HD23	1:D:2288:HIS:HB2	1.92	0.50
1:E:1986:LEU:HA	1:E:1989:PHE:HD2	1.76	0.50
1:E:2614:LYS:HZ1	1:B:2583:PHE:HD1	1.51	0.50
1:E:2698:GLY:HA3	1:E:2705:LYS:HG3	1.92	0.50
1:F:959:ALA:HB1	1:F:1127:GLU:H	1.72	0.50
1:F:1037:ASP:HA	1:F:1038:ALA:HB3	1.93	0.50
1:F:2245:VAL:HG13	1:F:2255:ARG:CZ	2.42	0.50
1:F:2653:VAL:HA	1:F:3051:MET:HE3	1.91	0.50
1:F:2720:ALA:HB1	1:A:3000:GLY:HA3	1.92	0.50
1:F:2754:ILE:HA	1:F:2759:ALA:O	2.11	0.50
1:A:780:ARG:HD2	1:A:816:LEU:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1087:PHE:HB3	1:B:117:LYS:HZ3	1.77	0.50
1:A:1598:GLU:HG2	1:A:1666:ILE:HD13	1.93	0.50
1:B:656:THR:HG1	1:B:880:HIS:CE1	2.29	0.50
1:B:1380:ALA:HB1	1:B:1474:LEU:HD12	1.93	0.50
1:B:1622:PRO:HD3	1:B:1685:LEU:HD21	1.92	0.50
1:C:208:VAL:HG12	1:C:248:ILE:HG12	1.91	0.50
1:E:1634:ARG:HH11	1:E:1639:ALA:N	2.08	0.50
1:E:2140:VAL:HG22	1:E:2165:ILE:HD12	1.94	0.50
1:F:508:GLN:HA	1:F:540:ASN:HB3	1.93	0.50
1:F:2662:SER:HB2	1:F:2833:LEU:HD22	1.93	0.50
1:F:2667:THR:HG21	1:F:3058:ARG:HH11	1.76	0.50
1:F:2790:MET:HG2	1:F:2809:LEU:HD11	1.93	0.50
1:B:1012:GLY:C	1:B:1013:THR:HG22	2.32	0.50
1:B:2401:ILE:HG23	1:B:2403:ILE:H	1.76	0.50
1:B:2662:SER:HB2	1:B:2833:LEU:HD22	1.94	0.50
1:C:508:GLN:HA	1:C:540:ASN:HB3	1.92	0.50
1:C:2361:VAL:HG11	1:C:2398:LEU:HD23	1.93	0.50
1:C:2754:ILE:HA	1:C:2759:ALA:O	2.11	0.50
1:D:1695:LEU:HD23	1:E:257:ARG:NH1	2.23	0.50
1:D:2690:THR:O	1:D:2693:GLN:HG2	2.11	0.50
1:D:2829:LEU:HD21	1:D:3014:PHE:HE2	1.77	0.50
1:E:1207:VAL:HG23	1:E:1207:VAL:O	2.12	0.50
1:E:1598:GLU:HG2	1:E:1666:ILE:HD13	1.93	0.50
1:F:2140:VAL:HG22	1:F:2165:ILE:HD12	1.94	0.50
1:F:2748:GLU:HG2	1:A:2753:LYS:HZ2	1.74	0.50
1:A:257:ARG:NH1	1:C:1695:LEU:HD23	2.23	0.50
1:B:2261:LYS:HA	1:B:2265:TRP:HB2	1.93	0.50
1:C:272:GLU:HB3	1:C:280:GLY:O	2.11	0.50
1:C:2180:LYS:HZ1	1:C:2962:ASP:HB3	1.76	0.50
1:D:2552:ASP:OD1	1:D:2552:ASP:N	2.43	0.50
1:D:2731:GLY:O	1:C:2846:ALA:N	2.44	0.50
1:E:1380:ALA:HB1	1:E:1474:LEU:HD12	1.94	0.50
1:F:930:PRO:CG	1:F:930:PRO:O	2.57	0.50
1:F:1598:GLU:HG2	1:F:1666:ILE:HD13	1.93	0.50
1:A:272:GLU:HB3	1:A:280:GLY:O	2.11	0.50
1:A:1380:ALA:HB1	1:A:1474:LEU:HD12	1.94	0.50
1:A:2180:LYS:HZ1	1:A:2962:ASP:HB3	1.76	0.50
1:A:2754:ILE:HA	1:A:2759:ALA:O	2.11	0.50
1:B:2245:VAL:HG13	1:B:2255:ARG:CZ	2.41	0.50
1:B:2690:THR:O	1:B:2693:GLN:HG2	2.11	0.50
1:C:1012:GLY:C	1:C:1013:THR:HG22	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1010:LEU:CG	1:D:1017:ILE:HB	2.42	0.50
1:D:1590:VAL:HG11	1:D:1671:TRP:CD2	2.47	0.50
1:D:2554:ALA:HB2	1:C:2582:GLN:HB3	1.94	0.50
1:E:176:VAL:O	1:E:180:ALA:N	2.36	0.50
1:E:206:PRO:HG2	1:E:294:VAL:HA	1.93	0.50
1:E:1012:GLY:C	1:E:1013:THR:HG22	2.32	0.50
1:F:207:MET:HA	1:F:249:THR:HG22	1.94	0.50
1:F:780:ARG:HD2	1:F:816:LEU:HB3	1.93	0.50
1:F:1380:ALA:HB1	1:F:1474:LEU:HD12	1.93	0.50
1:A:1331:ILE:HG13	1:A:1336:VAL:HG21	1.94	0.50
1:A:2557:LEU:HD22	1:A:2613:ARG:HB2	1.94	0.50
1:B:780:ARG:HD2	1:B:816:LEU:HB3	1.93	0.50
1:B:930:PRO:CG	1:B:930:PRO:O	2.57	0.50
1:B:940:ARG:CG	1:B:940:ARG:O	2.60	0.50
1:B:1317:GLY:H	1:B:1324:VAL:HG12	1.76	0.50
1:C:1380:ALA:HB1	1:C:1474:LEU:HD12	1.94	0.50
1:C:1590:VAL:HG11	1:C:1671:TRP:CD2	2.47	0.50
1:C:2140:VAL:HG22	1:C:2165:ILE:HD12	1.93	0.50
1:C:2662:SER:HB2	1:C:2833:LEU:HD22	1.93	0.50
1:C:3080:ARG:HG3	1:C:3080:ARG:NH1	2.09	0.50
1:E:2261:LYS:HA	1:E:2265:TRP:HB2	1.94	0.50
1:E:2582:GLN:HB3	1:B:2554:ALA:HB2	1.94	0.50
1:F:133:GLN:HG2	1:F:355:GLY:HA2	1.94	0.50
1:A:2236:LEU:HD23	1:A:2288:HIS:HB2	1.92	0.50
1:A:2361:VAL:HG11	1:A:2398:LEU:HD23	1.93	0.50
1:A:2623:ALA:HB2	1:A:2812:LEU:HD21	1.94	0.50
1:A:2811:PHE:HB3	1:A:2894:THR:HG22	1.94	0.50
1:D:1207:VAL:HG13	1:D:1207:VAL:O	2.12	0.50
1:D:1331:ILE:HG13	1:D:1336:VAL:HG21	1.94	0.50
1:D:2582:GLN:HB3	1:C:2554:ALA:HB2	1.94	0.50
1:E:2811:PHE:HB3	1:E:2894:THR:HG22	1.94	0.50
1:F:1119:THR:HA	1:F:1123:PHE:CD1	2.47	0.50
1:F:2554:ALA:HB2	1:A:2582:GLN:HB3	1.94	0.50
1:A:1010:LEU:CG	1:A:1017:ILE:HB	2.42	0.50
1:A:1711:VAL:HA	1:A:1714:LEU:HG	1.94	0.50
1:B:1010:LEU:CG	1:B:1017:ILE:HB	2.42	0.50
1:B:1207:VAL:O	1:B:1207:VAL:HG13	2.12	0.50
1:B:1580:PRO:O	1:B:1583:SER:OG	2.22	0.50
1:B:1711:VAL:HA	1:B:1714:LEU:HG	1.94	0.50
1:B:2334:HIS:HB3	1:B:2391:LYS:HA	1.94	0.50
1:C:207:MET:HA	1:C:249:THR:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:931:VAL:HG13	1:C:933:VAL:HG23	1.92	0.50
1:C:2274:LEU:HD23	1:C:2277:ILE:HD12	1.94	0.50
1:D:1133:VAL:O	1:D:1193:ALA:N	2.42	0.49
1:D:1380:ALA:HB1	1:D:1474:LEU:HD12	1.94	0.49
1:D:2667:THR:HG21	1:D:3058:ARG:HH11	1.76	0.49
1:D:3074:LEU:HB2	1:C:2861:LEU:HD13	1.92	0.49
1:E:405:PRO:HG3	1:E:625:LEU:HG	1.92	0.49
1:E:1331:ILE:HG13	1:E:1336:VAL:HG21	1.94	0.49
1:E:1711:VAL:HA	1:E:1714:LEU:HG	1.94	0.49
1:F:1385:ARG:HD2	1:F:2407:GLU:OE2	2.11	0.49
1:F:2334:HIS:HB3	1:F:2391:LYS:HA	1.94	0.49
1:B:133:GLN:HG2	1:B:355:GLY:HA2	1.94	0.49
1:B:2361:VAL:HG11	1:B:2398:LEU:HD23	1.93	0.49
1:C:206:PRO:HG2	1:C:294:VAL:HA	1.92	0.49
1:C:1207:VAL:HG23	1:C:1207:VAL:O	2.12	0.49
1:C:2245:VAL:HG13	1:C:2255:ARG:CZ	2.41	0.49
1:C:2667:THR:HG21	1:C:3058:ARG:HH11	1.76	0.49
1:C:2811:PHE:HB3	1:C:2894:THR:HG22	1.94	0.49
1:D:405:PRO:HG3	1:D:625:LEU:HG	1.92	0.49
1:D:2056:PHE:CZ	1:D:2180:LYS:HE2	2.47	0.49
1:D:2662:SER:HB2	1:D:2833:LEU:HD22	1.93	0.49
1:F:1010:LEU:CG	1:F:1017:ILE:HB	2.42	0.49
1:F:1042:MET:C	1:F:1044:ALA:N	2.62	0.49
1:F:1590:VAL:HG11	1:F:1671:TRP:CD2	2.47	0.49
1:F:2056:PHE:CZ	1:F:2180:LYS:HE2	2.46	0.49
1:F:2361:VAL:HG11	1:F:2398:LEU:HD23	1.93	0.49
1:F:2583:PHE:HD1	1:A:2614:LYS:HZ1	1.51	0.49
1:F:2962:ASP:OD1	1:F:2962:ASP:N	2.34	0.49
1:A:2245:VAL:HG13	1:A:2255:ARG:CZ	2.42	0.49
1:A:2334:HIS:HB3	1:A:2391:LYS:HA	1.94	0.49
1:B:207:MET:HA	1:B:249:THR:HG22	1.94	0.49
1:B:508:GLN:HA	1:B:540:ASN:HB3	1.92	0.49
1:B:746:TYR:HA	1:B:749:TRP:HD1	1.76	0.49
1:C:2137:GLU:O	1:C:2163:THR:N	2.30	0.49
1:D:1178:ASN:HB2	1:D:1185:LEU:HD11	1.94	0.49
1:E:42:GLU:H	1:E:42:GLU:CD	2.14	0.49
1:E:1119:THR:HA	1:E:1123:PHE:CD1	2.47	0.49
1:E:2118:LEU:O	1:E:2122:ILE:CG1	2.60	0.49
1:E:2557:LEU:HD22	1:E:2613:ARG:HB2	1.94	0.49
1:F:1207:VAL:HG13	1:F:1207:VAL:O	2.12	0.49
1:F:2829:LEU:HD21	1:F:3014:PHE:HE2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:405:PRO:HG3	1:A:625:LEU:HG	1.93	0.49
1:B:1119:THR:HA	1:B:1123:PHE:CD1	2.47	0.49
1:B:1986:LEU:HA	1:B:1989:PHE:HD2	1.76	0.49
1:C:930:PRO:CG	1:C:930:PRO:O	2.57	0.49
1:C:1331:ILE:HG13	1:C:1336:VAL:HG21	1.94	0.49
1:D:2811:PHE:HB3	1:D:2894:THR:HG22	1.94	0.49
1:E:1580:PRO:O	1:E:1583:SER:OG	2.22	0.49
1:E:1590:VAL:HG11	1:E:1671:TRP:CD2	2.47	0.49
1:E:2846:ALA:N	1:B:2731:GLY:O	2.44	0.49
1:F:1035:VAL:HG12	1:F:1042:MET:HG2	1.94	0.49
1:F:1362:MET:HG3	1:F:1430:VAL:HG21	1.95	0.49
1:F:1986:LEU:HA	1:F:1989:PHE:HD2	1.76	0.49
1:A:1207:VAL:HG23	1:A:1207:VAL:O	2.12	0.49
1:A:1590:VAL:HG11	1:A:1671:TRP:CD2	2.47	0.49
1:B:1291:LYS:HA	1:B:1344:ALA:HB3	1.95	0.49
1:B:2118:LEU:O	1:B:2122:ILE:CG1	2.60	0.49
1:B:2503:LYS:HE3	1:B:2505:GLU:OE2	2.13	0.49
1:C:1010:LEU:CG	1:C:1017:ILE:HB	2.42	0.49
1:C:1119:THR:HA	1:C:1123:PHE:CD1	2.48	0.49
1:D:940:ARG:CG	1:D:940:ARG:O	2.60	0.49
1:D:1119:THR:HA	1:D:1123:PHE:CD1	2.47	0.49
1:D:1362:MET:HG3	1:D:1430:VAL:HG21	1.95	0.49
1:D:1533:VAL:HG13	1:D:1582:HIS:HB2	1.95	0.49
1:D:2274:LEU:HD23	1:D:2277:ILE:HD12	1.94	0.49
1:D:2291:LEU:HD21	1:D:2332:LEU:HD22	1.95	0.49
1:F:961:ARG:NE	1:F:1196:GLY:CA	2.75	0.49
1:F:2261:LYS:HA	1:F:2265:TRP:HB2	1.93	0.49
1:A:133:GLN:HG2	1:A:355:GLY:HA2	1.94	0.49
1:A:2662:SER:HB2	1:A:2833:LEU:HD22	1.94	0.49
1:B:144:GLY:O	1:B:148:THR:N	2.34	0.49
1:B:1178:ASN:HB2	1:B:1185:LEU:HD11	1.94	0.49
1:B:1212:ALA:O	1:B:1342:ARG:NH2	2.45	0.49
1:C:1362:MET:HG3	1:C:1430:VAL:HG21	1.95	0.49
1:C:2291:LEU:HD21	1:C:2332:LEU:HD22	1.95	0.49
1:C:2829:LEU:HD21	1:C:3014:PHE:HE2	1.76	0.49
1:D:2261:LYS:HA	1:D:2265:TRP:HB2	1.94	0.49
1:D:2790:MET:HG2	1:D:2809:LEU:HD11	1.93	0.49
1:E:1010:LEU:CG	1:E:1017:ILE:HB	2.42	0.49
1:E:2334:HIS:HB3	1:E:2391:LYS:HA	1.94	0.49
1:F:2274:LEU:HD23	1:F:2277:ILE:HD12	1.94	0.49
1:F:2503:LYS:HE3	1:F:2505:GLU:OE2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1362:MET:HG3	1:A:1430:VAL:HG21	1.95	0.49
1:A:1634:ARG:HH11	1:A:1639:ALA:N	2.08	0.49
1:C:176:VAL:O	1:C:180:ALA:N	2.36	0.49
1:C:1637:VAL:HG21	1:C:1671:TRP:CD2	2.48	0.49
1:C:2056:PHE:CZ	1:C:2180:LYS:HE2	2.47	0.49
1:D:505:ARG:HA	1:D:508:GLN:HB2	1.94	0.49
1:D:1711:VAL:HA	1:D:1714:LEU:HG	1.94	0.49
1:D:3080:ARG:HG3	1:D:3080:ARG:NH1	2.09	0.49
1:E:1212:ALA:O	1:E:1342:ARG:NH2	2.45	0.49
1:E:2503:LYS:HE3	1:E:2505:GLU:OE2	2.13	0.49
1:F:1533:VAL:HG13	1:F:1582:HIS:HB2	1.95	0.49
1:F:2820:ILE:HD12	1:F:2822:LEU:HD21	1.95	0.49
1:A:790:ALA:HB3	1:A:826:LEU:HD21	1.95	0.49
1:A:1119:THR:HA	1:A:1123:PHE:CD1	2.47	0.49
1:C:505:ARG:HA	1:C:508:GLN:HB2	1.94	0.49
1:C:2118:LEU:O	1:C:2122:ILE:CG1	2.61	0.49
1:C:2820:ILE:HD12	1:C:2822:LEU:HD21	1.95	0.49
1:D:745:THR:OG1	1:D:834:GLU:O	2.19	0.49
1:E:133:GLN:HG2	1:E:355:GLY:HA2	1.94	0.49
1:E:184:LEU:HB3	1:E:311:TRP:HE3	1.78	0.49
1:E:2623:ALA:HB2	1:E:2812:LEU:HD21	1.94	0.49
1:F:1637:VAL:HG21	1:F:1671:TRP:CD2	2.48	0.49
1:F:2811:PHE:HB3	1:F:2894:THR:HG22	1.94	0.49
1:A:940:ARG:CG	1:A:940:ARG:O	2.60	0.49
1:A:2261:LYS:HA	1:A:2265:TRP:HB2	1.94	0.49
1:B:2820:ILE:HD12	1:B:2822:LEU:HD21	1.95	0.49
1:C:1533:VAL:HG13	1:C:1582:HIS:HB2	1.95	0.49
1:C:2417:SER:O	1:C:2421:ASP:N	2.40	0.49
1:D:2927:GLN:HE22	1:D:2941:PHE:C	2.17	0.49
1:E:207:MET:HA	1:E:249:THR:HG22	1.94	0.49
1:E:1111:PHE:HE1	1:E:1129:LEU:HD11	1.78	0.49
1:E:2361:VAL:HG11	1:E:2398:LEU:HD23	1.93	0.49
1:F:790:ALA:HB3	1:F:826:LEU:HD21	1.95	0.49
1:F:1331:ILE:HG13	1:F:1336:VAL:HG21	1.94	0.49
1:B:790:ALA:HB3	1:B:826:LEU:HD21	1.95	0.49
1:B:2623:ALA:HB2	1:B:2812:LEU:HD21	1.94	0.49
1:D:2623:ALA:HB2	1:D:2812:LEU:HD21	1.94	0.49
1:E:2245:VAL:HG13	1:E:2255:ARG:CZ	2.42	0.49
1:F:940:ARG:CG	1:F:940:ARG:O	2.60	0.49
1:F:1035:VAL:HG11	1:F:1042:MET:HG2	1.95	0.49
1:F:1212:ALA:O	1:F:1342:ARG:NH2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2557:LEU:HD22	1:F:2613:ARG:HB2	1.94	0.49
1:A:1111:PHE:HE1	1:A:1129:LEU:HD11	1.78	0.49
1:A:2058:ASP:OD1	1:A:2058:ASP:N	2.46	0.49
1:B:1435:VAL:HG22	1:B:1703:ILE:HD12	1.95	0.49
1:B:2811:PHE:HB3	1:B:2894:THR:HG22	1.94	0.49
1:C:940:ARG:CG	1:C:940:ARG:O	2.60	0.49
1:C:1435:VAL:HG22	1:C:1703:ILE:HD12	1.95	0.49
1:C:1711:VAL:HA	1:C:1714:LEU:HG	1.94	0.49
1:C:2623:ALA:HB2	1:C:2812:LEU:HD21	1.94	0.49
1:D:2140:VAL:HG22	1:D:2165:ILE:HD12	1.93	0.48
1:D:2503:LYS:HE3	1:D:2505:GLU:OE2	2.13	0.48
1:D:2557:LEU:HD22	1:D:2613:ARG:HB2	1.94	0.48
1:E:144:GLY:O	1:E:148:THR:N	2.34	0.48
1:E:1637:VAL:HG21	1:E:1671:TRP:CD2	2.48	0.48
1:E:2554:ALA:HB1	1:E:2614:LYS:HD2	1.95	0.48
1:F:2926:SER:HB3	1:F:2976:TRP:HH2	1.78	0.48
1:A:207:MET:HA	1:A:249:THR:HG22	1.94	0.48
1:A:2118:LEU:O	1:A:2122:ILE:CG1	2.60	0.48
1:A:2848:GLY:H	1:A:3001:HIS:CD2	2.31	0.48
1:B:1637:VAL:HG21	1:B:1671:TRP:CD2	2.48	0.48
1:C:361:THR:HG21	1:C:377:PRO:HG3	1.95	0.48
1:C:2736:PRO:HG2	1:C:2746:SER:HA	1.96	0.48
1:C:2848:GLY:H	1:C:3001:HIS:CD2	2.31	0.48
1:D:444:ILE:HD12	1:D:655:ALA:HA	1.95	0.48
1:D:1212:ALA:O	1:D:1342:ARG:NH2	2.45	0.48
1:D:1637:VAL:HG21	1:D:1671:TRP:CD2	2.48	0.48
1:D:2820:ILE:HD12	1:D:2822:LEU:HD21	1.95	0.48
1:E:2088:ARG:O	1:E:2188:ARG:NH1	2.47	0.48
1:E:2094:HIS:O	1:E:2098:THR:HG22	2.14	0.48
1:E:2274:LEU:HD23	1:E:2277:ILE:HD12	1.94	0.48
1:F:1036:ASP:C	1:F:1038:ALA:HB3	2.32	0.48
1:F:1651:THR:HB	1:F:1656:LYS:HD2	1.95	0.48
1:F:1711:VAL:HA	1:F:1714:LEU:HG	1.94	0.48
1:F:1996:PRO:O	1:F:2000:LEU:N	2.41	0.48
1:F:2167:THR:HB	1:F:2198:ALA:HB3	1.95	0.48
1:F:2845:PHE:CE1	1:A:2676:SER:HB2	2.49	0.48
1:A:868:ARG:HB3	1:A:872:ARG:NH1	2.28	0.48
1:A:1625:LEU:HD11	1:A:1660:LEU:HB3	1.96	0.48
1:A:2137:GLU:O	1:A:2163:THR:N	2.30	0.48
1:A:2503:LYS:HE3	1:A:2505:GLU:OE2	2.13	0.48
1:B:2274:LEU:HD23	1:B:2277:ILE:HD12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2554:ALA:HB1	1:B:2614:LYS:HD2	1.95	0.48
1:B:2848:GLY:H	1:B:3001:HIS:CD2	2.31	0.48
1:C:184:LEU:HB3	1:C:311:TRP:HE3	1.78	0.48
1:C:444:ILE:HD12	1:C:655:ALA:HA	1.95	0.48
1:D:868:ARG:HB3	1:D:872:ARG:NH1	2.28	0.48
1:D:2170:ARG:HB2	1:D:2175:ARG:HG3	1.95	0.48
1:D:2736:PRO:HG2	1:D:2746:SER:HA	1.96	0.48
1:E:790:ALA:HB3	1:E:826:LEU:HD21	1.95	0.48
1:E:1362:MET:HG3	1:E:1430:VAL:HG21	1.95	0.48
1:E:2098:THR:O	1:E:2102:TRP:CG	2.67	0.48
1:E:2666:PRO:CB	1:E:2727:VAL:HA	2.44	0.48
1:E:2676:SER:HB2	1:B:2845:PHE:CE1	2.49	0.48
1:E:2829:LEU:HD21	1:E:3014:PHE:HE2	1.76	0.48
1:F:184:LEU:HB3	1:F:311:TRP:HE3	1.78	0.48
1:F:1111:PHE:HE1	1:F:1129:LEU:HD11	1.78	0.48
1:F:2118:LEU:O	1:F:2122:ILE:CG1	2.60	0.48
1:F:2582:GLN:HB3	1:A:2554:ALA:HB2	1.94	0.48
1:F:2623:ALA:HB2	1:F:2812:LEU:HD21	1.94	0.48
1:A:505:ARG:HA	1:A:508:GLN:HB2	1.94	0.48
1:A:2554:ALA:HB1	1:A:2614:LYS:HD2	1.95	0.48
1:A:2829:LEU:HD21	1:A:3014:PHE:HE2	1.77	0.48
1:B:1533:VAL:HG13	1:B:1582:HIS:HB2	1.95	0.48
1:B:2056:PHE:CZ	1:B:2180:LYS:HE2	2.47	0.48
1:B:2167:THR:HB	1:B:2198:ALA:HB3	1.95	0.48
1:C:1212:ALA:O	1:C:1342:ARG:NH2	2.45	0.48
1:C:1625:LEU:HD11	1:C:1660:LEU:HB3	1.96	0.48
1:C:1651:THR:HB	1:C:1656:LYS:HD2	1.95	0.48
1:C:2261:LYS:HA	1:C:2265:TRP:HB2	1.94	0.48
1:C:3065:PRO:O	1:C:3069:GLN:N	2.42	0.48
1:D:1651:THR:HB	1:D:1656:LYS:HD2	1.95	0.48
1:D:2088:ARG:O	1:D:2188:ARG:NH1	2.47	0.48
1:D:2118:LEU:O	1:D:2122:ILE:CG1	2.60	0.48
1:D:2845:PHE:CE1	1:C:2676:SER:HB2	2.49	0.48
1:E:505:ARG:HA	1:E:508:GLN:HB2	1.94	0.48
1:E:1178:ASN:HB2	1:E:1185:LEU:HD11	1.94	0.48
1:E:1533:VAL:HG13	1:E:1582:HIS:HB2	1.95	0.48
1:E:2592:PRO:HA	1:E:2599:TRP:CD1	2.49	0.48
1:E:2645:ASP:OD1	1:E:2647:VAL:HG23	2.14	0.48
1:E:2926:SER:HB3	1:E:2976:TRP:HH2	1.79	0.48
1:F:444:ILE:HD12	1:F:655:ALA:HA	1.95	0.48
1:F:505:ARG:HA	1:F:508:GLN:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1625:LEU:HD11	1:F:1660:LEU:HB3	1.95	0.48
1:F:2170:ARG:HB2	1:F:2175:ARG:HG3	1.95	0.48
1:F:2554:ALA:HB1	1:F:2614:LYS:HD2	1.95	0.48
1:F:2762:VAL:HG22	1:F:2822:LEU:HB2	1.96	0.48
1:B:444:ILE:HD12	1:B:655:ALA:HA	1.95	0.48
1:B:505:ARG:HA	1:B:508:GLN:HB2	1.94	0.48
1:B:868:ARG:HB3	1:B:872:ARG:NH1	2.28	0.48
1:B:2088:ARG:O	1:B:2188:ARG:NH1	2.47	0.48
1:B:2170:ARG:HB2	1:B:2175:ARG:HG3	1.95	0.48
1:C:868:ARG:HB3	1:C:872:ARG:NH1	2.28	0.48
1:C:2503:LYS:HE3	1:C:2505:GLU:OE2	2.13	0.48
1:D:1435:VAL:HG22	1:D:1703:ILE:HD12	1.95	0.48
1:D:1625:LEU:HD11	1:D:1660:LEU:HB3	1.96	0.48
1:E:1103:VAL:HG21	1:E:1269:MET:SD	2.54	0.48
1:E:1625:LEU:HD11	1:E:1660:LEU:HB3	1.96	0.48
1:E:2291:LEU:HD21	1:E:2332:LEU:HD22	1.95	0.48
1:F:1012:GLY:C	1:F:1013:THR:HG22	2.32	0.48
1:F:1435:VAL:HG22	1:F:1703:ILE:HD12	1.95	0.48
1:F:2666:PRO:CB	1:F:2727:VAL:HA	2.44	0.48
1:A:1637:VAL:HG21	1:A:1671:TRP:CD2	2.48	0.48
1:A:2094:HIS:O	1:A:2098:THR:HG22	2.13	0.48
1:D:790:ALA:HB3	1:D:826:LEU:HD21	1.95	0.48
1:D:1012:GLY:C	1:D:1013:THR:HG22	2.32	0.48
1:D:1291:LYS:HA	1:D:1344:ALA:HB3	1.95	0.48
1:D:2645:ASP:OD1	1:D:2647:VAL:HG23	2.14	0.48
1:E:803:GLU:OE1	1:E:2431:THR:CG2	2.62	0.48
1:E:2554:ALA:HB2	1:B:2582:GLN:HB3	1.94	0.48
1:F:868:ARG:HB3	1:F:872:ARG:NH1	2.28	0.48
1:A:184:LEU:HB3	1:A:311:TRP:HE3	1.78	0.48
1:A:1178:ASN:HB2	1:A:1185:LEU:HD11	1.94	0.48
1:A:2648:ALA:HA	1:A:2718:VAL:HG13	1.96	0.48
1:A:2667:THR:HB	1:A:3081:LEU:HD11	1.96	0.48
1:A:2926:SER:HB3	1:A:2976:TRP:HH2	1.79	0.48
1:B:1103:VAL:HG21	1:B:1269:MET:SD	2.54	0.48
1:B:2137:GLU:O	1:B:2163:THR:N	2.30	0.48
1:C:184:LEU:HD13	1:C:311:TRP:HB3	1.96	0.48
1:C:2170:ARG:HB2	1:C:2175:ARG:HG3	1.95	0.48
1:C:2334:HIS:HB3	1:C:2391:LYS:HA	1.94	0.48
1:D:2180:LYS:NZ	1:D:2962:ASP:HB3	2.29	0.48
1:D:2334:HIS:HB3	1:D:2391:LYS:HA	1.94	0.48
1:D:2583:PHE:HB2	1:C:2614:LYS:NZ	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2676:SER:HB2	1:C:2845:PHE:CE1	2.49	0.48
1:E:868:ARG:HB3	1:E:872:ARG:NH1	2.28	0.48
1:E:1291:LYS:HA	1:E:1344:ALA:HB3	1.95	0.48
1:E:2614:LYS:NZ	1:B:2583:PHE:HB2	2.29	0.48
1:E:2648:ALA:HA	1:E:2718:VAL:HG13	1.96	0.48
1:E:2667:THR:HB	1:E:3081:LEU:HD11	1.96	0.48
1:E:2848:GLY:H	1:E:3001:HIS:CD2	2.32	0.48
1:F:1178:ASN:HB2	1:F:1185:LEU:HD11	1.94	0.48
1:F:2592:PRO:HA	1:F:2599:TRP:CD1	2.49	0.48
1:F:2848:GLY:H	1:F:3001:HIS:CD2	2.31	0.48
1:B:2666:PRO:CB	1:B:2727:VAL:HA	2.44	0.48
1:D:2167:THR:HB	1:D:2198:ALA:HB3	1.96	0.48
1:D:2666:PRO:CB	1:D:2727:VAL:HA	2.44	0.48
1:D:3065:PRO:O	1:D:3069:GLN:N	2.42	0.48
1:E:2583:PHE:HB2	1:B:2614:LYS:NZ	2.29	0.48
1:E:2762:VAL:HG22	1:E:2822:LEU:HB2	1.96	0.48
1:E:2845:PHE:CE1	1:B:2676:SER:HB2	2.49	0.48
1:E:2927:GLN:HE22	1:E:2941:PHE:C	2.17	0.48
1:F:305:ILE:HD13	1:F:327:GLU:HG2	1.95	0.48
1:F:501:VAL:HA	1:F:504:LYS:HE2	1.96	0.48
1:F:1019:PHE:CE2	1:F:1035:VAL:HG23	2.49	0.48
1:F:1401:THR:CB	1:C:2286:ARG:HH22	2.27	0.48
1:F:2736:PRO:HG2	1:F:2746:SER:HA	1.95	0.48
1:A:301:LEU:HD13	1:A:330:LEU:HD22	1.96	0.48
1:A:792:ALA:HA	1:A:799:PHE:CE2	2.43	0.48
1:B:305:ILE:HD13	1:B:327:GLU:HG2	1.95	0.48
1:B:936:ARG:O	1:B:941:ARG:N	2.44	0.48
1:B:1651:THR:HB	1:B:1656:LYS:HD2	1.95	0.48
1:B:2762:VAL:HG22	1:B:2822:LEU:HB2	1.96	0.48
1:C:301:LEU:HD13	1:C:330:LEU:HD22	1.96	0.48
1:C:1178:ASN:HB2	1:C:1185:LEU:HD11	1.94	0.48
1:C:1634:ARG:HH11	1:C:1639:ALA:N	2.08	0.48
1:C:2088:ARG:O	1:C:2188:ARG:NH1	2.47	0.48
1:C:2094:HIS:O	1:C:2098:THR:HG22	2.13	0.48
1:C:2667:THR:HB	1:C:3081:LEU:HD11	1.95	0.48
1:C:2926:SER:HB3	1:C:2976:TRP:HH2	1.79	0.48
1:C:2927:GLN:HE22	1:C:2941:PHE:C	2.17	0.48
1:D:2848:GLY:H	1:D:3001:HIS:CD2	2.31	0.48
1:E:940:ARG:CG	1:E:940:ARG:O	2.60	0.48
1:E:2060:TRP:HZ2	1:E:2966:ASP:HA	1.79	0.48
1:E:2843:GLN:HG2	1:E:2845:PHE:CZ	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:808:ALA:HB3	1:F:811:ASP:HB2	1.96	0.48
1:F:961:ARG:CZ	1:F:1196:GLY:HA2	2.44	0.48
1:F:1103:VAL:HG21	1:F:1269:MET:SD	2.54	0.48
1:F:2088:ARG:O	1:F:2188:ARG:NH1	2.47	0.48
1:A:305:ILE:HD13	1:A:327:GLU:HG2	1.95	0.48
1:A:836:VAL:HG12	1:A:837:VAL:N	2.29	0.48
1:A:2088:ARG:O	1:A:2188:ARG:NH1	2.47	0.48
1:A:2274:LEU:HD23	1:A:2277:ILE:HD12	1.94	0.48
1:A:2762:VAL:HG22	1:A:2822:LEU:HB2	1.96	0.48
1:A:2843:GLN:HG2	1:A:2845:PHE:CZ	2.49	0.48
1:B:501:VAL:HA	1:B:504:LYS:HE2	1.96	0.48
1:B:1508:ILE:HB	1:B:1562:ARG:HD3	1.96	0.48
1:B:2094:HIS:O	1:B:2098:THR:HG22	2.13	0.48
1:B:2249:MET:O	1:B:2250:SER:OG	2.28	0.48
1:B:2926:SER:HB3	1:B:2976:TRP:HH2	1.79	0.48
1:C:1103:VAL:HG21	1:C:1269:MET:SD	2.54	0.48
1:C:1133:VAL:O	1:C:1193:ALA:N	2.42	0.48
1:C:1291:LYS:HA	1:C:1344:ALA:HB3	1.95	0.48
1:C:2098:THR:O	1:C:2102:TRP:CG	2.66	0.48
1:C:2557:LEU:HD22	1:C:2613:ARG:HB2	1.94	0.48
1:D:1103:VAL:HG21	1:D:1269:MET:SD	2.54	0.48
1:D:1467:VAL:HA	1:D:1605:LYS:HD2	1.96	0.48
1:E:656:THR:HG1	1:E:880:HIS:CE1	2.31	0.48
1:E:1996:PRO:O	1:E:2000:LEU:N	2.41	0.48
1:F:171:LYS:HE3	1:F:173:ALA:HB3	1.96	0.48
1:F:361:THR:HG21	1:F:377:PRO:HG3	1.95	0.48
1:F:1276:GLN:HE21	1:F:1292:LEU:HD13	1.79	0.48
1:F:2291:LEU:HD21	1:F:2332:LEU:HD22	1.95	0.48
1:A:184:LEU:HD13	1:A:311:TRP:HB3	1.96	0.48
1:A:365:ALA:HB3	1:A:366:PRO:HD3	1.96	0.48
1:A:683:GLY:CA	1:A:700:ASN:HB2	2.44	0.48
1:A:1212:ALA:O	1:A:1342:ARG:NH2	2.45	0.48
1:A:2170:ARG:HB2	1:A:2175:ARG:HG3	1.96	0.48
1:B:176:VAL:O	1:B:180:ALA:N	2.36	0.48
1:B:2098:THR:O	1:B:2102:TRP:CG	2.67	0.48
1:B:2645:ASP:OD1	1:B:2647:VAL:HG23	2.14	0.48
1:C:832:ASP:O	1:C:836:VAL:HG23	2.14	0.48
1:C:2666:PRO:CB	1:C:2727:VAL:HA	2.44	0.48
1:D:1111:PHE:HE1	1:D:1129:LEU:HD11	1.78	0.47
1:D:2098:THR:O	1:D:2102:TRP:CG	2.67	0.47
1:D:2843:GLN:HG2	1:D:2845:PHE:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:171:LYS:HE3	1:E:173:ALA:HB3	1.96	0.47
1:E:184:LEU:HD13	1:E:311:TRP:HB3	1.96	0.47
1:E:674:TRP:CD1	1:E:895:THR:HG21	2.49	0.47
1:E:2820:ILE:HD12	1:E:2822:LEU:HD21	1.95	0.47
1:F:745:THR:OG1	1:F:834:GLU:O	2.19	0.47
1:F:832:ASP:O	1:F:836:VAL:HG23	2.14	0.47
1:F:1038:ALA:HA	1:F:1126:ILE:CA	2.44	0.47
1:F:1467:VAL:HA	1:F:1605:LYS:HD2	1.96	0.47
1:F:2060:TRP:HZ2	1:F:2966:ASP:HA	1.79	0.47
1:F:2094:HIS:O	1:F:2098:THR:HG22	2.14	0.47
1:F:2180:LYS:NZ	1:F:2962:ASP:HB3	2.29	0.47
1:B:641:ASP:OD1	1:B:641:ASP:N	2.47	0.47
1:B:1111:PHE:HE1	1:B:1129:LEU:HD11	1.78	0.47
1:B:1276:GLN:HE21	1:B:1292:LEU:HD13	1.79	0.47
1:B:1590:VAL:HG11	1:B:1671:TRP:CE2	2.50	0.47
1:B:2418:GLY:O	1:B:2422:GLU:N	2.40	0.47
1:B:2557:LEU:HD22	1:B:2613:ARG:HB2	1.94	0.47
1:B:2592:PRO:HA	1:B:2599:TRP:CD1	2.49	0.47
1:C:1996:PRO:O	1:C:2000:LEU:N	2.41	0.47
1:C:2167:THR:HB	1:C:2198:ALA:HB3	1.96	0.47
1:C:2418:GLY:O	1:C:2422:GLU:N	2.40	0.47
1:C:2645:ASP:OD1	1:C:2647:VAL:HG23	2.14	0.47
1:D:501:VAL:HA	1:D:504:LYS:HE2	1.96	0.47
1:D:997:GLU:HB3	1:D:1009:PRO:CG	2.45	0.47
1:D:1634:ARG:HH11	1:D:1639:ALA:N	2.08	0.47
1:D:2060:TRP:HZ2	1:D:2966:ASP:HA	1.79	0.47
1:D:2094:HIS:O	1:D:2098:THR:HG22	2.13	0.47
1:D:2210:VAL:HB	1:D:2277:ILE:HD11	1.96	0.47
1:D:2461:VAL:HG21	1:D:2751:VAL:HG13	1.96	0.47
1:E:301:LEU:HD13	1:E:330:LEU:HD22	1.96	0.47
1:E:606:ASN:HD22	1:E:606:ASN:H	1.63	0.47
1:E:832:ASP:O	1:E:836:VAL:HG23	2.14	0.47
1:F:1040:THR:O	1:F:1041:ALA:HB2	2.13	0.47
1:F:1590:VAL:HG11	1:F:1671:TRP:CE2	2.50	0.47
1:F:2000:LEU:HD12	1:C:2000:LEU:HD12	1.96	0.47
1:F:2614:LYS:NZ	1:A:2583:PHE:HB2	2.29	0.47
1:F:2676:SER:HB2	1:A:2845:PHE:CE1	2.49	0.47
1:A:171:LYS:HE3	1:A:173:ALA:HB3	1.96	0.47
1:A:444:ILE:HD12	1:A:655:ALA:HA	1.95	0.47
1:A:501:VAL:HA	1:A:504:LYS:HE2	1.96	0.47
1:A:1012:GLY:C	1:A:1013:THR:HG22	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1291:LYS:HA	1:A:1344:ALA:HB3	1.94	0.47
1:A:1996:PRO:O	1:A:2000:LEU:N	2.41	0.47
1:A:2098:THR:O	1:A:2102:TRP:CG	2.67	0.47
1:A:2167:THR:HB	1:A:2198:ALA:HB3	1.96	0.47
1:A:2666:PRO:CB	1:A:2727:VAL:HA	2.44	0.47
1:A:2820:ILE:HD12	1:A:2822:LEU:HD21	1.95	0.47
1:A:2927:GLN:HE22	1:A:2941:PHE:C	2.17	0.47
1:B:836:VAL:HG12	1:B:837:VAL:N	2.29	0.47
1:B:2884:ASP:HA	1:B:2916:ARG:NH1	2.30	0.47
1:C:133:GLN:HG2	1:C:355:GLY:HA2	1.94	0.47
1:C:171:LYS:HE3	1:C:173:ALA:HB3	1.96	0.47
1:C:501:VAL:HA	1:C:504:LYS:HE2	1.96	0.47
1:C:803:GLU:OE1	1:C:2431:THR:CG2	2.62	0.47
1:C:1467:VAL:HA	1:C:1605:LYS:HD2	1.96	0.47
1:C:2884:ASP:HA	1:C:2916:ARG:NH1	2.29	0.47
1:D:641:ASP:OD1	1:D:641:ASP:N	2.47	0.47
1:D:2252:VAL:HG22	1:D:2255:ARG:NH2	2.30	0.47
1:D:2592:PRO:HA	1:D:2599:TRP:CD1	2.49	0.47
1:E:782:ARG:HD3	1:E:853:LEU:HD22	1.96	0.47
1:E:1276:GLN:HE21	1:E:1292:LEU:HD13	1.79	0.47
1:E:2137:GLU:O	1:E:2163:THR:N	2.30	0.47
1:E:2170:ARG:HB2	1:E:2175:ARG:HG3	1.95	0.47
1:E:2180:LYS:NZ	1:E:2962:ASP:HB3	2.29	0.47
1:F:674:TRP:CD1	1:F:895:THR:HG21	2.50	0.47
1:F:1291:LYS:HA	1:F:1344:ALA:HB3	1.95	0.47
1:F:2583:PHE:HB2	1:A:2614:LYS:NZ	2.29	0.47
1:A:782:ARG:HD3	1:A:853:LEU:HD22	1.97	0.47
1:A:2291:LEU:HD21	1:A:2332:LEU:HD22	1.95	0.47
1:A:2348:GLN:O	1:A:2416:MET:HG3	2.15	0.47
1:B:301:LEU:HD13	1:B:330:LEU:HD22	1.95	0.47
1:B:674:TRP:CD1	1:B:895:THR:HG21	2.49	0.47
1:B:1362:MET:HG3	1:B:1430:VAL:HG21	1.95	0.47
1:B:1996:PRO:O	1:B:2000:LEU:N	2.41	0.47
1:B:2736:PRO:HG2	1:B:2746:SER:HA	1.96	0.47
1:C:305:ILE:HD13	1:C:327:GLU:HG2	1.95	0.47
1:C:2060:TRP:HZ2	1:C:2966:ASP:HA	1.79	0.47
1:C:2210:VAL:HB	1:C:2277:ILE:HD11	1.97	0.47
1:D:2583:PHE:HB2	1:C:2614:LYS:HG3	1.97	0.47
1:D:2614:LYS:HG3	1:C:2583:PHE:HB2	1.97	0.47
1:D:2848:GLY:HA2	1:C:2728:GLY:HA2	1.97	0.47
1:E:444:ILE:HD12	1:E:655:ALA:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:647:THR:HG22	1:E:901:ILE:HD11	1.96	0.47
1:F:2681:THR:O	1:F:2764:ALA:HA	2.15	0.47
1:A:606:ASN:H	1:A:606:ASN:HD22	1.62	0.47
1:A:1276:GLN:HE21	1:A:1292:LEU:HD13	1.79	0.47
1:A:1435:VAL:HG22	1:A:1703:ILE:HD12	1.95	0.47
1:A:1533:VAL:HG13	1:A:1582:HIS:HB2	1.95	0.47
1:A:2592:PRO:HA	1:A:2599:TRP:CD1	2.49	0.47
1:A:2645:ASP:OD1	1:A:2647:VAL:HG23	2.13	0.47
1:B:184:LEU:HB3	1:B:311:TRP:HE3	1.78	0.47
1:B:1467:VAL:HA	1:B:1605:LYS:HD2	1.96	0.47
1:C:670:GLY:HA3	1:C:899:ALA:HB2	1.96	0.47
1:C:836:VAL:HG12	1:C:837:VAL:N	2.29	0.47
1:C:1111:PHE:HE1	1:C:1129:LEU:HD11	1.78	0.47
1:C:2180:LYS:NZ	1:C:2962:ASP:HB3	2.29	0.47
1:C:2843:GLN:HG2	1:C:2845:PHE:CZ	2.49	0.47
1:D:1276:GLN:HE21	1:D:1292:LEU:HD13	1.79	0.47
1:D:2376:LEU:HD22	1:D:2392:VAL:HG21	1.97	0.47
1:E:361:THR:HG21	1:E:377:PRO:HG3	1.95	0.47
1:E:365:ALA:HB3	1:E:366:PRO:HD3	1.97	0.47
1:E:808:ALA:HB3	1:E:811:ASP:HB2	1.96	0.47
1:E:1435:VAL:HG22	1:E:1703:ILE:HD12	1.95	0.47
1:E:2167:THR:HB	1:E:2198:ALA:HB3	1.96	0.47
1:E:2681:THR:O	1:E:2764:ALA:HA	2.15	0.47
1:F:670:GLY:HA3	1:F:899:ALA:HB2	1.96	0.47
1:F:966:PRO:O	1:F:970:ILE:N	2.48	0.47
1:F:976:TRP:CG	1:F:976:TRP:O	2.68	0.47
1:F:997:GLU:HB3	1:F:1009:PRO:CG	2.44	0.47
1:F:1699:ARG:HG3	1:F:1730:GLU:HB3	1.97	0.47
1:A:141:ALA:O	1:A:145:MET:HB2	2.14	0.47
1:A:361:THR:HG21	1:A:377:PRO:HG3	1.95	0.47
1:A:641:ASP:N	1:A:641:ASP:OD1	2.48	0.47
1:A:803:GLU:OE1	1:A:2431:THR:CG2	2.62	0.47
1:A:2056:PHE:CZ	1:A:2180:LYS:HE2	2.47	0.47
1:B:171:LYS:HE3	1:B:173:ALA:HB3	1.96	0.47
1:B:361:THR:HG21	1:B:377:PRO:HG3	1.95	0.47
1:B:803:GLU:OE1	1:B:2431:THR:CG2	2.62	0.47
1:B:2291:LEU:HD21	1:B:2332:LEU:HD22	1.95	0.47
1:B:2352:ILE:HG12	1:B:2412:ALA:HB1	1.96	0.47
1:C:674:TRP:CD1	1:C:895:THR:HG21	2.49	0.47
1:C:1455:VAL:HB	1:C:1480:ARG:HH12	1.80	0.47
1:C:2592:PRO:HA	1:C:2599:TRP:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:670:GLY:HA3	1:D:899:ALA:HB2	1.96	0.47
1:D:832:ASP:O	1:D:836:VAL:HG23	2.14	0.47
1:D:2000:LEU:HD12	1:B:2000:LEU:HD12	1.97	0.47
1:D:2348:GLN:O	1:D:2416:MET:HG3	2.15	0.47
1:D:2610:ARG:NH1	1:D:2700:LEU:HD11	2.25	0.47
1:D:2667:THR:HB	1:D:3081:LEU:HD11	1.96	0.47
1:D:2926:SER:HB3	1:D:2976:TRP:HH2	1.79	0.47
1:E:141:ALA:O	1:E:145:MET:HB2	2.14	0.47
1:E:305:ILE:HD13	1:E:327:GLU:HG2	1.95	0.47
1:E:683:GLY:CA	1:E:700:ASN:HB2	2.44	0.47
1:E:997:GLU:HB3	1:E:1009:PRO:CG	2.45	0.47
1:E:2348:GLN:O	1:E:2416:MET:HG3	2.15	0.47
1:E:2848:GLY:HA2	1:B:2728:GLY:HA2	1.97	0.47
1:F:2098:THR:O	1:F:2102:TRP:CG	2.67	0.47
1:F:2252:VAL:HG22	1:F:2255:ARG:NH2	2.30	0.47
1:F:2927:GLN:HE22	1:F:2941:PHE:C	2.17	0.47
1:A:365:ALA:O	1:A:369:ARG:N	2.42	0.47
1:A:647:THR:HG22	1:A:901:ILE:HD11	1.96	0.47
1:A:713:ALA:O	1:A:868:ARG:NH2	2.48	0.47
1:C:790:ALA:HB3	1:C:826:LEU:HD21	1.95	0.47
1:D:713:ALA:O	1:D:868:ARG:NH2	2.48	0.47
1:D:782:ARG:HD3	1:D:853:LEU:HD22	1.97	0.47
1:D:808:ALA:HB3	1:D:811:ASP:HB2	1.96	0.47
1:D:1072:TRP:HE1	1:D:1077:VAL:HG22	1.80	0.47
1:D:2614:LYS:NZ	1:C:2583:PHE:HB2	2.29	0.47
1:E:670:GLY:HA3	1:E:899:ALA:HB2	1.96	0.47
1:E:1651:THR:HB	1:E:1656:LYS:HD2	1.95	0.47
1:E:2252:VAL:HG22	1:E:2255:ARG:NH2	2.30	0.47
1:F:210:VAL:HG22	1:F:287:PHE:CD1	2.50	0.47
1:F:301:LEU:HD13	1:F:330:LEU:HD22	1.96	0.47
1:F:836:VAL:HG12	1:F:837:VAL:N	2.29	0.47
1:F:961:ARG:NE	1:F:1196:GLY:HA2	2.29	0.47
1:F:2348:GLN:O	1:F:2416:MET:HG3	2.15	0.47
1:F:2407:GLU:HG2	1:F:2411:LYS:HE3	1.96	0.47
1:F:2667:THR:HB	1:F:3081:LEU:HD11	1.96	0.47
1:F:2700:LEU:HD22	1:A:2697:HIS:CD2	2.43	0.47
1:F:2800:PHE:CE1	1:F:2812:LEU:HD22	2.50	0.47
1:F:3065:PRO:O	1:F:3069:GLN:N	2.42	0.47
1:A:674:TRP:CD1	1:A:895:THR:HG21	2.50	0.47
1:A:808:ALA:HB3	1:A:811:ASP:HB2	1.96	0.47
1:A:1103:VAL:HG21	1:A:1269:MET:SD	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1467:VAL:HA	1:A:1605:LYS:HD2	1.96	0.47
1:A:1651:THR:HB	1:A:1656:LYS:HD2	1.95	0.47
1:A:2180:LYS:NZ	1:A:2962:ASP:HB3	2.29	0.47
1:A:2461:VAL:HG21	1:A:2751:VAL:HG13	1.96	0.47
1:A:2681:THR:O	1:A:2764:ALA:HA	2.15	0.47
1:B:647:THR:HG22	1:B:901:ILE:HD11	1.96	0.47
1:B:778:THR:HG21	1:B:854:GLY:HA3	1.97	0.47
1:B:782:ARG:HD3	1:B:853:LEU:HD22	1.97	0.47
1:B:832:ASP:O	1:B:836:VAL:HG23	2.14	0.47
1:B:2180:LYS:NZ	1:B:2962:ASP:HB3	2.29	0.47
1:B:2252:VAL:HG22	1:B:2255:ARG:NH2	2.30	0.47
1:C:141:ALA:O	1:C:145:MET:HB2	2.15	0.47
1:C:641:ASP:N	1:C:641:ASP:OD1	2.47	0.47
1:C:713:ALA:O	1:C:868:ARG:NH2	2.48	0.47
1:C:808:ALA:HB3	1:C:811:ASP:HB2	1.96	0.47
1:C:976:TRP:CG	1:C:976:TRP:O	2.68	0.47
1:C:997:GLU:HB3	1:C:1009:PRO:CG	2.45	0.47
1:C:2376:LEU:HD22	1:C:2392:VAL:HG21	1.97	0.47
1:D:674:TRP:CD1	1:D:895:THR:HG21	2.49	0.47
1:D:803:GLU:OE1	1:D:2431:THR:CG2	2.62	0.47
1:D:2728:GLY:HA2	1:C:2848:GLY:HA2	1.97	0.47
1:D:2762:VAL:HG22	1:D:2822:LEU:HB2	1.96	0.47
1:D:2773:GLU:HA	1:D:2776:ILE:HG22	1.97	0.47
1:E:1590:VAL:HG11	1:E:1671:TRP:CE2	2.50	0.47
1:E:1699:ARG:HG3	1:E:1730:GLU:HB3	1.97	0.47
1:F:602:ARG:NH2	1:F:641:ASP:OD1	2.27	0.47
1:F:683:GLY:CA	1:F:700:ASN:HB2	2.44	0.47
1:F:1381:ASP:OD1	1:F:1391:SER:OG	2.22	0.47
1:F:2210:VAL:HB	1:F:2277:ILE:HD11	1.97	0.47
1:F:2630:ASP:HB3	1:F:2633:VAL:HG23	1.97	0.47
1:F:2843:GLN:HG2	1:F:2845:PHE:CZ	2.49	0.47
1:A:778:THR:HG21	1:A:854:GLY:HA3	1.97	0.47
1:B:141:ALA:O	1:B:145:MET:HB2	2.15	0.47
1:B:713:ALA:O	1:B:868:ARG:NH2	2.48	0.47
1:B:2667:THR:HB	1:B:3081:LEU:HD11	1.96	0.47
1:C:745:THR:HG22	1:C:747:LEU:H	1.80	0.47
1:C:2461:VAL:HG21	1:C:2751:VAL:HG13	1.96	0.47
1:C:2773:GLU:HA	1:C:2776:ILE:HG22	1.97	0.47
1:D:647:THR:HG22	1:D:901:ILE:HD11	1.96	0.47
1:D:1590:VAL:HG11	1:D:1671:TRP:CE2	2.50	0.47
1:D:1996:PRO:O	1:D:2000:LEU:N	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:210:VAL:HG22	1:E:287:PHE:CD1	2.50	0.47
1:E:501:VAL:HA	1:E:504:LYS:HE2	1.96	0.47
1:E:836:VAL:HG12	1:E:837:VAL:N	2.29	0.47
1:E:2461:VAL:HG21	1:E:2751:VAL:HG13	1.96	0.47
1:E:2736:PRO:HG2	1:E:2746:SER:HA	1.96	0.47
1:F:141:ALA:O	1:F:145:MET:HB2	2.15	0.47
1:F:518:ASP:HA	1:F:543:GLY:O	2.15	0.47
1:F:647:THR:HG22	1:F:901:ILE:HD11	1.96	0.47
1:F:959:ALA:HA	1:F:1038:ALA:HB2	1.97	0.47
1:F:1037:ASP:HB2	1:F:1042:MET:H	1.80	0.47
1:F:2645:ASP:OD1	1:F:2647:VAL:HG23	2.13	0.47
1:F:2770:LEU:HB3	1:F:2815:GLN:HB3	1.97	0.47
1:F:2785:ALA:HB1	1:F:2809:LEU:HG	1.97	0.47
1:A:832:ASP:O	1:A:836:VAL:HG23	2.14	0.47
1:A:1699:ARG:HG3	1:A:1730:GLU:HB3	1.97	0.47
1:B:997:GLU:HB3	1:B:1009:PRO:CG	2.44	0.47
1:B:1625:LEU:HD11	1:B:1660:LEU:HB3	1.96	0.47
1:B:2376:LEU:HD22	1:B:2392:VAL:HG21	1.97	0.47
1:B:2461:VAL:HG21	1:B:2751:VAL:HG13	1.96	0.47
1:B:2648:ALA:HA	1:B:2718:VAL:HG13	1.96	0.47
1:B:2927:GLN:HE22	1:B:2941:PHE:C	2.17	0.47
1:C:210:VAL:HG22	1:C:287:PHE:CD1	2.50	0.47
1:C:1072:TRP:HE1	1:C:1077:VAL:HG22	1.80	0.47
1:C:1276:GLN:HE21	1:C:1292:LEU:HD13	1.79	0.47
1:C:2348:GLN:O	1:C:2416:MET:HG3	2.15	0.47
1:D:996:LEU:HA	1:D:1010:LEU:HA	1.97	0.47
1:D:1450:ALA:N	1:D:1613:ARG:O	2.48	0.47
1:D:2648:ALA:HA	1:D:2718:VAL:HG13	1.96	0.47
1:E:778:THR:HG21	1:E:854:GLY:HA3	1.97	0.47
1:E:966:PRO:O	1:E:970:ILE:N	2.48	0.47
1:E:1467:VAL:HA	1:E:1605:LYS:HD2	1.96	0.47
1:E:1723:GLU:C	1:E:1725:SER:H	2.18	0.47
1:E:2583:PHE:HB2	1:B:2614:LYS:HG3	1.97	0.47
1:F:184:LEU:HD13	1:F:311:TRP:HB3	1.96	0.47
1:F:713:ALA:O	1:F:868:ARG:NH2	2.48	0.47
1:F:1508:ILE:HB	1:F:1562:ARG:HD3	1.96	0.47
1:F:2884:ASP:HA	1:F:2916:ARG:NH1	2.29	0.47
1:A:198:ILE:HG12	1:C:1087:PHE:CE1	2.50	0.47
1:A:745:THR:HG22	1:A:747:LEU:H	1.80	0.47
1:A:1455:VAL:HB	1:A:1480:ARG:HH12	1.80	0.47
1:A:2630:ASP:HB3	1:A:2633:VAL:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2884:ASP:HA	1:A:2916:ARG:NH1	2.29	0.47
1:B:210:VAL:HG22	1:B:287:PHE:CD1	2.50	0.47
1:B:365:ALA:O	1:B:369:ARG:N	2.42	0.47
1:B:966:PRO:O	1:B:970:ILE:N	2.48	0.47
1:B:1072:TRP:HE1	1:B:1077:VAL:HG22	1.80	0.47
1:B:2348:GLN:O	1:B:2416:MET:HG3	2.15	0.47
1:B:2843:GLN:HG2	1:B:2845:PHE:CZ	2.49	0.47
1:C:1699:ARG:HG3	1:C:1730:GLU:HB3	1.97	0.47
1:C:2252:VAL:HG22	1:C:2255:ARG:NH2	2.30	0.47
1:D:1087:PHE:CE1	1:E:198:ILE:HG12	2.50	0.46
1:D:1508:ILE:HB	1:D:1562:ARG:HD3	1.97	0.46
1:D:1723:GLU:C	1:D:1725:SER:H	2.18	0.46
1:D:2554:ALA:HB1	1:D:2614:LYS:HD2	1.95	0.46
1:D:2681:THR:O	1:D:2764:ALA:HA	2.15	0.46
1:E:2543:PHE:HA	1:E:2624:GLN:HE22	1.81	0.46
1:E:2961:LEU:HD22	1:E:2976:TRP:CD1	2.51	0.46
1:F:585:HIS:HD2	1:F:586:SER:H	1.62	0.46
1:F:782:ARG:HD3	1:F:853:LEU:HD22	1.97	0.46
1:F:959:ALA:CB	1:F:1126:ILE:HG23	2.34	0.46
1:F:2376:LEU:HD22	1:F:2392:VAL:HG21	1.97	0.46
1:A:670:GLY:HA3	1:A:899:ALA:HB2	1.96	0.46
1:A:997:GLU:HB3	1:A:1009:PRO:CG	2.45	0.46
1:A:2482:GLU:HG2	1:A:2956:PRO:HB3	1.97	0.46
1:A:2736:PRO:HG2	1:A:2746:SER:HA	1.96	0.46
1:B:184:LEU:HD13	1:B:311:TRP:HB3	1.96	0.46
1:B:1455:VAL:HB	1:B:1480:ARG:HH12	1.80	0.46
1:B:2060:TRP:HZ2	1:B:2966:ASP:HA	1.79	0.46
1:B:2252:VAL:HG13	1:B:2255:ARG:HH21	1.81	0.46
1:B:2681:THR:O	1:B:2764:ALA:HA	2.15	0.46
1:B:2785:ALA:HB1	1:B:2809:LEU:HG	1.97	0.46
1:C:365:ALA:HB3	1:C:366:PRO:HD3	1.96	0.46
1:C:575:HIS:CD2	1:C:644:LEU:HD22	2.49	0.46
1:C:996:LEU:HA	1:C:1010:LEU:HA	1.97	0.46
1:C:1508:ILE:HB	1:C:1562:ARG:HD3	1.97	0.46
1:C:1723:GLU:C	1:C:1725:SER:H	2.18	0.46
1:C:2252:VAL:HG13	1:C:2255:ARG:HH21	1.80	0.46
1:C:2554:ALA:HB1	1:C:2614:LYS:HD2	1.95	0.46
1:D:976:TRP:CG	1:D:976:TRP:O	2.68	0.46
1:D:2352:ILE:HG12	1:D:2412:ALA:HB1	1.96	0.46
1:E:684:MET:HG3	1:E:895:THR:HA	1.98	0.46
1:E:713:ALA:O	1:E:868:ARG:NH2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:976:TRP:CG	1:E:976:TRP:O	2.68	0.46
1:E:1634:ARG:NH1	1:E:1639:ALA:H	2.11	0.46
1:F:540:ASN:ND2	1:F:544:ILE:HG13	2.30	0.46
1:F:641:ASP:OD1	1:F:641:ASP:N	2.47	0.46
1:F:2407:GLU:HB3	1:F:2411:LYS:CD	2.44	0.46
1:F:2648:ALA:HA	1:F:2718:VAL:HG13	1.96	0.46
1:A:210:VAL:HG22	1:A:287:PHE:CD1	2.50	0.46
1:A:1450:ALA:N	1:A:1613:ARG:O	2.48	0.46
1:A:2060:TRP:HZ2	1:A:2966:ASP:HA	1.79	0.46
1:A:2376:LEU:HD22	1:A:2392:VAL:HG21	1.97	0.46
1:B:84:GLU:HB2	1:B:85:PRO:HD3	1.97	0.46
1:B:1087:PHE:CE1	1:C:198:ILE:HG12	2.50	0.46
1:B:1346:PRO:HG2	1:B:1699:ARG:HD3	1.98	0.46
1:B:1450:ALA:N	1:B:1613:ARG:O	2.48	0.46
1:B:2210:VAL:HB	1:B:2277:ILE:HD11	1.97	0.46
1:B:2482:GLU:HG2	1:B:2956:PRO:HB3	1.97	0.46
1:C:2543:PHE:HA	1:C:2624:GLN:HE22	1.81	0.46
1:C:2630:ASP:HB3	1:C:2633:VAL:HG23	1.97	0.46
1:C:2961:LEU:HD22	1:C:2976:TRP:CD1	2.50	0.46
1:D:534:ASP:O	1:D:538:GLU:HG3	2.16	0.46
1:D:966:PRO:O	1:D:970:ILE:N	2.48	0.46
1:D:1699:ARG:HG3	1:D:1730:GLU:HB3	1.97	0.46
1:E:575:HIS:CD2	1:E:644:LEU:HD22	2.49	0.46
1:E:996:LEU:HA	1:E:1010:LEU:HA	1.98	0.46
1:E:1455:VAL:HB	1:E:1480:ARG:HH12	1.80	0.46
1:E:2096:VAL:HG13	1:E:2097:ALA:H	1.80	0.46
1:E:2252:VAL:HG13	1:E:2255:ARG:HH21	1.81	0.46
1:E:2884:ASP:HA	1:E:2916:ARG:NH1	2.30	0.46
1:F:1037:ASP:CA	1:F:1038:ALA:CB	2.87	0.46
1:F:2482:GLU:HG2	1:F:2956:PRO:HB3	1.97	0.46
1:F:2848:GLY:HA2	1:A:2728:GLY:HA2	1.97	0.46
1:A:518:ASP:HA	1:A:543:GLY:O	2.15	0.46
1:B:2961:LEU:HD22	1:B:2976:TRP:CD1	2.50	0.46
1:C:518:ASP:HA	1:C:543:GLY:O	2.15	0.46
1:C:602:ARG:NH2	1:C:641:ASP:OD1	2.27	0.46
1:C:647:THR:HG22	1:C:901:ILE:HD11	1.96	0.46
1:C:936:ARG:O	1:C:941:ARG:N	2.44	0.46
1:C:2352:ILE:HG12	1:C:2412:ALA:HB1	1.96	0.46
1:D:518:ASP:HA	1:D:543:GLY:O	2.15	0.46
1:D:656:THR:HG1	1:D:880:HIS:CE1	2.29	0.46
1:D:1237:ARG:CZ	1:E:95:PRO:HB2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2612:PRO:HD2	1:C:2603:ARG:HH12	1.81	0.46
1:D:2884:ASP:HA	1:D:2916:ARG:NH1	2.29	0.46
1:E:406:THR:OG1	1:E:418:GLU:OE1	2.34	0.46
1:E:2352:ILE:HG12	1:E:2412:ALA:HB1	1.96	0.46
1:F:2543:PHE:HA	1:F:2624:GLN:HE22	1.81	0.46
1:A:976:TRP:CG	1:A:976:TRP:O	2.68	0.46
1:A:1094:THR:O	1:A:1288:PRO:HG2	2.16	0.46
1:A:1237:ARG:CZ	1:B:95:PRO:HB2	2.46	0.46
1:A:1590:VAL:HG11	1:A:1671:TRP:CE2	2.50	0.46
1:A:2352:ILE:HG12	1:A:2412:ALA:HB1	1.96	0.46
1:B:518:ASP:HA	1:B:543:GLY:O	2.15	0.46
1:B:808:ALA:HB3	1:B:811:ASP:HB2	1.96	0.46
1:B:976:TRP:CG	1:B:976:TRP:O	2.68	0.46
1:B:1723:GLU:C	1:B:1725:SER:H	2.18	0.46
1:B:2630:ASP:HB3	1:B:2633:VAL:HG23	1.97	0.46
1:B:2770:LEU:HB3	1:B:2815:GLN:HB3	1.97	0.46
1:C:684:MET:HG3	1:C:895:THR:HA	1.98	0.46
1:C:1590:VAL:HG11	1:C:1671:TRP:CE2	2.50	0.46
1:C:2361:VAL:HG21	1:C:2401:ILE:HD11	1.98	0.46
1:D:1094:THR:O	1:D:1288:PRO:HG2	2.15	0.46
1:D:1319:ASP:HB2	1:D:1342:ARG:NH1	2.31	0.46
1:D:2361:VAL:HG21	1:D:2401:ILE:HD11	1.98	0.46
1:E:1072:TRP:CD1	1:E:1097:VAL:HG22	2.51	0.46
1:E:1325:LEU:HD11	1:E:1343:LEU:HD22	1.98	0.46
1:E:2630:ASP:HB3	1:E:2633:VAL:HG23	1.97	0.46
1:E:3001:HIS:CE1	1:B:2724:GLN:HG2	2.51	0.46
1:F:167:ALA:HB3	1:F:178:LEU:HD21	1.98	0.46
1:F:406:THR:OG1	1:F:418:GLU:OE1	2.34	0.46
1:F:768:LYS:HA	1:F:775:LEU:HD11	1.97	0.46
1:F:803:GLU:OE1	1:F:2431:THR:CG2	2.62	0.46
1:F:1325:LEU:HD11	1:F:1343:LEU:HD22	1.98	0.46
1:F:2461:VAL:HG21	1:F:2751:VAL:HG13	1.97	0.46
1:F:2961:LEU:HD22	1:F:2976:TRP:CD1	2.51	0.46
1:F:3001:HIS:CE1	1:A:2724:GLN:HG2	2.51	0.46
1:A:602:ARG:NH2	1:A:641:ASP:OD1	2.27	0.46
1:A:768:LYS:HA	1:A:775:LEU:HD11	1.98	0.46
1:B:768:LYS:HA	1:B:775:LEU:HD11	1.98	0.46
1:B:799:PHE:CZ	1:B:2433:ARG:CG	2.99	0.46
1:C:606:ASN:HD22	1:C:606:ASN:H	1.63	0.46
1:C:768:LYS:HA	1:C:775:LEU:HD11	1.97	0.46
1:D:606:ASN:H	1:D:606:ASN:HD22	1.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:768:LYS:HA	1:D:775:LEU:HD11	1.98	0.46
1:D:1087:PHE:HB3	1:E:117:LYS:HZ1	1.80	0.46
1:D:2070:LEU:O	1:D:2074:GLU:HG3	2.16	0.46
1:D:2252:VAL:HG13	1:D:2255:ARG:HH21	1.80	0.46
1:D:2603:ARG:HH12	1:C:2612:PRO:HD2	1.81	0.46
1:D:2790:MET:SD	1:D:2800:PHE:HB2	2.56	0.46
1:D:2946:LEU:HD22	1:D:2994:VAL:HG23	1.98	0.46
1:E:518:ASP:HA	1:E:543:GLY:O	2.15	0.46
1:E:540:ASN:ND2	1:E:544:ILE:HG13	2.30	0.46
1:E:2769:ASP:OD1	1:E:2770:LEU:N	2.49	0.46
1:E:2790:MET:SD	1:E:2800:PHE:HB2	2.56	0.46
1:F:205:PRO:CD	1:F:289:PRO:HB3	2.46	0.46
1:F:516:PRO:HA	1:F:962:MET:SD	2.56	0.46
1:F:1020:THR:CB	1:F:1035:VAL:HG22	2.43	0.46
1:F:2773:GLU:HA	1:F:2776:ILE:HG22	1.97	0.46
1:F:2978:ARG:NH1	1:F:2979:GLU:OE2	2.49	0.46
1:A:966:PRO:O	1:A:970:ILE:N	2.48	0.46
1:B:94:ARG:HG3	1:B:95:PRO:HD3	1.98	0.46
1:B:745:THR:HG22	1:B:747:LEU:H	1.80	0.46
1:B:1072:TRP:CD1	1:B:1097:VAL:HG22	2.51	0.46
1:C:778:THR:HG21	1:C:854:GLY:HA3	1.97	0.46
1:C:1072:TRP:CD1	1:C:1097:VAL:HG22	2.51	0.46
1:C:1346:PRO:HG2	1:C:1699:ARG:HD3	1.97	0.46
1:D:406:THR:OG1	1:D:418:GLU:OE1	2.34	0.46
1:D:511:ARG:CB	1:D:540:ASN:HB2	2.46	0.46
1:D:778:THR:HG21	1:D:854:GLY:HA3	1.97	0.46
1:D:2961:LEU:HD22	1:D:2976:TRP:CD1	2.51	0.46
1:E:641:ASP:OD1	1:E:641:ASP:N	2.47	0.46
1:E:2210:VAL:HB	1:E:2277:ILE:HD11	1.96	0.46
1:E:2361:VAL:HG21	1:E:2401:ILE:HD11	1.98	0.46
1:E:2653:VAL:HA	1:E:3051:MET:HE3	1.97	0.46
1:E:2785:ALA:HB1	1:E:2809:LEU:HG	1.97	0.46
1:E:3065:PRO:O	1:E:3069:GLN:N	2.43	0.46
1:F:745:THR:HG22	1:F:747:LEU:H	1.80	0.46
1:F:961:ARG:NE	1:F:1196:GLY:N	2.61	0.46
1:F:1037:ASP:CB	1:F:1042:MET:N	2.79	0.46
1:A:534:ASP:O	1:A:538:GLU:HG3	2.16	0.46
1:A:1346:PRO:HG2	1:A:1699:ARG:HD3	1.98	0.46
1:A:1619:VAL:HA	1:A:1620:PRO:HD2	1.80	0.46
1:A:2610:ARG:NH1	1:A:2700:LEU:HD21	2.31	0.46
1:B:205:PRO:CD	1:B:289:PRO:HB3	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:540:ASN:ND2	1:B:544:ILE:HG13	2.30	0.46
1:B:670:GLY:HA3	1:B:899:ALA:HB2	1.96	0.46
1:C:111:GLU:HB2	1:C:112:PRO:HD3	1.98	0.46
1:C:222:LEU:HD21	1:C:236:VAL:HA	1.97	0.46
1:C:782:ARG:HD3	1:C:853:LEU:HD22	1.97	0.46
1:C:2482:GLU:HG2	1:C:2956:PRO:HB3	1.97	0.46
1:C:2610:ARG:NH1	1:C:2700:LEU:HD21	2.31	0.46
1:C:2648:ALA:HA	1:C:2718:VAL:HG13	1.96	0.46
1:C:3080:ARG:CG	1:C:3080:ARG:NH1	2.72	0.46
1:D:540:ASN:ND2	1:D:544:ILE:HG13	2.30	0.46
1:D:1072:TRP:CD1	1:D:1097:VAL:HG22	2.51	0.46
1:D:3001:HIS:CE1	1:C:2724:GLN:HG2	2.51	0.46
1:E:205:PRO:CD	1:E:289:PRO:HB3	2.46	0.46
1:E:1695:LEU:HD23	1:F:257:ARG:NH1	2.23	0.46
1:E:2603:ARG:HH12	1:B:2612:PRO:HD2	1.81	0.46
1:E:2612:PRO:HD2	1:B:2603:ARG:HH12	1.81	0.46
1:F:365:ALA:HB3	1:F:366:PRO:HD3	1.96	0.46
1:F:365:ALA:O	1:F:369:ARG:N	2.42	0.46
1:F:606:ASN:H	1:F:606:ASN:HD22	1.62	0.46
1:F:799:PHE:CZ	1:F:2433:ARG:CG	2.99	0.46
1:F:1346:PRO:HG2	1:F:1699:ARG:HD3	1.98	0.46
1:F:2557:LEU:CG	1:A:2702:GLY:HA3	2.45	0.46
1:F:2790:MET:SD	1:F:2800:PHE:HB2	2.56	0.46
1:A:84:GLU:HB2	1:A:85:PRO:HD3	1.98	0.46
1:A:1325:LEU:HD11	1:A:1343:LEU:HD22	1.98	0.46
1:A:1508:ILE:HB	1:A:1562:ARG:HD3	1.97	0.46
1:A:2212:TRP:HA	1:A:2229:LYS:HB3	1.98	0.46
1:A:2252:VAL:HG13	1:A:2255:ARG:HH21	1.80	0.46
1:A:2610:ARG:NH1	1:A:2700:LEU:HD11	2.25	0.46
1:A:2790:MET:SD	1:A:2800:PHE:HB2	2.56	0.46
1:A:2978:ARG:NH1	1:A:2979:GLU:OE2	2.49	0.46
1:B:207:MET:HG3	1:B:292:VAL:HB	1.98	0.46
1:B:931:VAL:HG13	1:B:934:LEU:N	2.21	0.46
1:B:1319:ASP:HB2	1:B:1342:ARG:NH1	2.31	0.46
1:B:2610:ARG:NH1	1:B:2700:LEU:HD21	2.31	0.46
1:B:2978:ARG:NH1	1:B:2979:GLU:OE2	2.49	0.46
1:C:207:MET:HG3	1:C:292:VAL:HB	1.98	0.46
1:C:277:LEU:HD22	1:C:676:GLY:O	2.16	0.46
1:C:1462:ALA:HB2	1:C:1468:TYR:HE1	1.81	0.46
1:C:1619:VAL:HA	1:C:1620:PRO:HD2	1.80	0.46
1:C:2762:VAL:HG22	1:C:2822:LEU:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2800:PHE:CE1	1:C:2812:LEU:HD22	2.50	0.46
1:C:2845:PHE:HD2	1:C:2860:ALA:HA	1.81	0.46
1:C:2946:LEU:HD22	1:C:2994:VAL:HG23	1.98	0.46
1:D:745:THR:HG22	1:D:747:LEU:H	1.80	0.46
1:D:1455:VAL:HB	1:D:1480:ARG:HH12	1.80	0.46
1:D:2630:ASP:HB3	1:D:2633:VAL:HG23	1.97	0.46
1:E:1094:THR:O	1:E:1288:PRO:HG2	2.15	0.46
1:E:1237:ARG:CZ	1:F:95:PRO:HB2	2.46	0.46
1:E:2482:GLU:HG2	1:E:2956:PRO:HB3	1.97	0.46
1:E:2737:VAL:HG12	1:B:2716:ASN:OD1	2.16	0.46
1:E:2773:GLU:HA	1:E:2776:ILE:HG22	1.97	0.46
1:F:2252:VAL:HG13	1:F:2255:ARG:HH21	1.80	0.46
1:F:2614:LYS:HG3	1:A:2583:PHE:HB2	1.97	0.46
1:A:111:GLU:HB2	1:A:112:PRO:HD3	1.98	0.46
1:A:1087:PHE:CE1	1:B:198:ILE:HG12	2.51	0.46
1:A:2252:VAL:HG22	1:A:2255:ARG:NH2	2.30	0.46
1:A:2619:ARG:HH12	1:A:2779:GLY:HA2	1.81	0.46
1:A:2891:LYS:HG3	1:A:2924:ILE:HD13	1.98	0.46
1:B:277:LEU:HD22	1:B:676:GLY:O	2.16	0.46
1:B:365:ALA:HB3	1:B:366:PRO:HD3	1.96	0.46
1:B:606:ASN:HD22	1:B:606:ASN:H	1.63	0.46
1:B:868:ARG:HD3	1:B:872:ARG:HH12	1.81	0.46
1:B:1094:THR:O	1:B:1288:PRO:HG2	2.16	0.46
1:C:406:THR:OG1	1:C:418:GLU:OE1	2.34	0.46
1:C:540:ASN:ND2	1:C:544:ILE:HG13	2.30	0.46
1:C:966:PRO:O	1:C:970:ILE:N	2.48	0.46
1:C:1702:GLU:OE1	1:C:1712:ALA:N	2.49	0.46
1:C:2785:ALA:HB1	1:C:2809:LEU:HG	1.97	0.46
1:D:575:HIS:CD2	1:D:644:LEU:HD22	2.49	0.46
1:D:1346:PRO:HG2	1:D:1699:ARG:HD3	1.98	0.46
1:D:2785:ALA:HB1	1:D:2809:LEU:HG	1.97	0.46
1:E:936:ARG:O	1:E:941:ARG:N	2.45	0.46
1:E:1508:ILE:HB	1:E:1562:ARG:HD3	1.96	0.46
1:E:2728:GLY:HA2	1:B:2848:GLY:HA2	1.97	0.46
1:E:2957:PRO:HB3	1:E:2979:GLU:C	2.36	0.46
1:F:2096:VAL:HG13	1:F:2097:ALA:H	1.80	0.46
1:A:205:PRO:CD	1:A:289:PRO:HB3	2.46	0.46
1:A:656:THR:HG1	1:A:880:HIS:CE1	2.31	0.46
1:A:1723:GLU:C	1:A:1725:SER:H	2.18	0.46
1:A:2297:ARG:HH22	1:A:2391:LYS:HZ3	1.64	0.46
1:A:2957:PRO:HB3	1:A:2979:GLU:C	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2961:LEU:HD22	1:A:2976:TRP:CD1	2.51	0.46
1:B:167:ALA:HB3	1:B:178:LEU:HD21	1.98	0.46
1:B:2672:TRP:CD1	1:B:2831:MET:HG2	2.51	0.46
1:B:2790:MET:SD	1:B:2800:PHE:HB2	2.56	0.46
1:B:2845:PHE:HD2	1:B:2860:ALA:HA	1.81	0.46
1:B:2891:LYS:HG3	1:B:2924:ILE:HD13	1.98	0.46
1:C:784:GLU:OE2	1:C:816:LEU:HD21	2.16	0.46
1:C:2790:MET:SD	1:C:2800:PHE:HB2	2.56	0.46
1:D:544:ILE:O	1:D:546:HIS:N	2.41	0.45
1:D:2543:PHE:HA	1:D:2624:GLN:HE22	1.81	0.45
1:D:2978:ARG:NH1	1:D:2979:GLU:OE2	2.49	0.45
1:D:3080:ARG:CG	1:D:3080:ARG:NH1	2.72	0.45
1:E:84:GLU:HB2	1:E:85:PRO:HD3	1.98	0.45
1:E:868:ARG:HD3	1:E:872:ARG:HH12	1.81	0.45
1:E:2000:LEU:HD12	1:A:2000:LEU:HD12	1.96	0.45
1:E:2376:LEU:HD22	1:E:2392:VAL:HG21	1.97	0.45
1:E:2724:GLN:HG2	1:B:3001:HIS:CE1	2.51	0.45
1:E:2891:LYS:HG3	1:E:2924:ILE:HD13	1.99	0.45
1:E:2978:ARG:NH1	1:E:2979:GLU:OE2	2.49	0.45
1:F:277:LEU:HD22	1:F:676:GLY:O	2.16	0.45
1:F:544:ILE:O	1:F:546:HIS:N	2.40	0.45
1:F:778:THR:HG21	1:F:854:GLY:HA3	1.97	0.45
1:F:1094:THR:O	1:F:1288:PRO:HG2	2.15	0.45
1:F:2086:SER:HA	1:F:2089:PHE:CG	2.51	0.45
1:F:2234:PRO:HB2	1:F:2287:LEU:HD13	1.98	0.45
1:F:2583:PHE:HB2	1:A:2614:LYS:HG3	1.97	0.45
1:F:2612:PRO:HD2	1:A:2603:ARG:HH12	1.81	0.45
1:F:2728:GLY:HA2	1:A:2848:GLY:HA2	1.97	0.45
1:F:2891:LYS:HG3	1:F:2924:ILE:HD13	1.99	0.45
1:F:2946:LEU:HD22	1:F:2994:VAL:HG23	1.98	0.45
1:A:95:PRO:HB2	1:C:1237:ARG:CZ	2.45	0.45
1:A:406:THR:OG1	1:A:418:GLU:OE1	2.34	0.45
1:A:1483:LYS:O	1:A:1487:ILE:HG23	2.17	0.45
1:A:1612:GLY:N	1:A:1623:PHE:O	2.48	0.45
1:A:2361:VAL:HG21	1:A:2401:ILE:HD11	1.98	0.45
1:A:2769:ASP:OD1	1:A:2770:LEU:N	2.49	0.45
1:B:406:THR:OG1	1:B:418:GLU:OE1	2.34	0.45
1:B:585:HIS:HD2	1:B:586:SER:H	1.62	0.45
1:B:683:GLY:CA	1:B:700:ASN:HB2	2.44	0.45
1:B:1325:LEU:HD11	1:B:1343:LEU:HD22	1.98	0.45
1:B:2946:LEU:HD22	1:B:2994:VAL:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:167:ALA:HB3	1:C:178:LEU:HD21	1.98	0.45
1:C:1304:LYS:O	1:C:1307:ASP:HB2	2.16	0.45
1:C:2681:THR:O	1:C:2764:ALA:HA	2.15	0.45
1:C:2957:PRO:HB3	1:C:2979:GLU:C	2.36	0.45
1:C:2978:ARG:NH1	1:C:2979:GLU:OE2	2.49	0.45
1:D:2234:PRO:HB2	1:D:2287:LEU:HD13	1.98	0.45
1:D:2246:ALA:N	1:D:2255:ARG:NH1	2.64	0.45
1:D:2619:ARG:NH1	1:D:2779:GLY:HA2	2.31	0.45
1:D:2957:PRO:HB3	1:D:2979:GLU:C	2.36	0.45
1:E:167:ALA:HB3	1:E:178:LEU:HD21	1.98	0.45
1:E:222:LEU:HD21	1:E:236:VAL:HA	1.97	0.45
1:E:534:ASP:O	1:E:538:GLU:HG3	2.16	0.45
1:E:799:PHE:CZ	1:E:2433:ARG:CG	2.99	0.45
1:E:2716:ASN:OD1	1:B:2737:VAL:HG12	2.16	0.45
1:F:94:ARG:HG3	1:F:95:PRO:HD3	1.98	0.45
1:F:534:ASP:O	1:F:538:GLU:HG3	2.16	0.45
1:F:684:MET:HG3	1:F:895:THR:HA	1.98	0.45
1:A:1702:GLU:OE1	1:A:1712:ALA:N	2.49	0.45
1:A:2086:SER:HA	1:A:2089:PHE:CG	2.51	0.45
1:B:1699:ARG:HG3	1:B:1730:GLU:HB3	1.97	0.45
1:B:2086:SER:HA	1:B:2089:PHE:CG	2.52	0.45
1:B:2889:ILE:HD11	1:B:2922:LEU:HD22	1.98	0.45
1:C:205:PRO:CD	1:C:289:PRO:HB3	2.46	0.45
1:C:683:GLY:CA	1:C:700:ASN:HB2	2.45	0.45
1:C:746:TYR:HB2	1:C:833:ALA:HB1	1.99	0.45
1:C:1171:PRO:HA	1:C:1191:ARG:HG2	1.99	0.45
1:C:2619:ARG:NH1	1:C:2779:GLY:HA2	2.31	0.45
1:D:1634:ARG:NH1	1:D:1639:ALA:H	2.11	0.45
1:D:2096:VAL:HG13	1:D:2097:ALA:H	1.80	0.45
1:E:94:ARG:HG3	1:E:95:PRO:HD3	1.97	0.45
1:E:2845:PHE:HD2	1:E:2860:ALA:HA	1.82	0.45
1:F:868:ARG:HD3	1:F:872:ARG:HH12	1.81	0.45
1:F:1021:LEU:HA	1:F:1034:GLU:HA	1.98	0.45
1:F:1038:ALA:HA	1:F:1126:ILE:HA	1.98	0.45
1:F:1553:ALA:O	1:F:1557:GLU:HG2	2.17	0.45
1:F:2070:LEU:O	1:F:2074:GLU:HG3	2.16	0.45
1:A:277:LEU:HD22	1:A:676:GLY:O	2.16	0.45
1:A:381:ARG:O	1:A:384:GLN:HG2	2.17	0.45
1:A:684:MET:HG3	1:A:895:THR:HA	1.98	0.45
1:A:1319:ASP:HB2	1:A:1342:ARG:NH1	2.31	0.45
1:A:2773:GLU:HA	1:A:2776:ILE:HG22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:111:GLU:HB2	1:B:112:PRO:HD3	1.98	0.45
1:B:1304:LYS:O	1:B:1307:ASP:HB2	2.16	0.45
1:B:1519:VAL:HG13	1:B:1530:LEU:HD23	1.99	0.45
1:B:2234:PRO:HB2	1:B:2287:LEU:HD13	1.98	0.45
1:B:2543:PHE:HA	1:B:2624:GLN:HE22	1.81	0.45
1:B:2610:ARG:NH1	1:B:2700:LEU:HD11	2.25	0.45
1:C:84:GLU:HB2	1:C:85:PRO:HD3	1.98	0.45
1:C:534:ASP:O	1:C:538:GLU:HG3	2.16	0.45
1:C:1352:PHE:HA	1:C:1353:PRO:HD3	1.72	0.45
1:C:2234:PRO:HB2	1:C:2287:LEU:HD13	1.98	0.45
1:D:784:GLU:OE2	1:D:816:LEU:HD21	2.16	0.45
1:D:799:PHE:CZ	1:D:2433:ARG:CG	2.99	0.45
1:D:836:VAL:HG12	1:D:837:VAL:N	2.29	0.45
1:D:2769:ASP:OD1	1:D:2770:LEU:N	2.49	0.45
1:E:222:LEU:HD13	1:E:248:ILE:HD12	1.99	0.45
1:E:784:GLU:OE2	1:E:816:LEU:HD21	2.16	0.45
1:E:1087:PHE:CE1	1:F:198:ILE:HG12	2.50	0.45
1:E:1346:PRO:HG2	1:E:1699:ARG:HD3	1.98	0.45
1:E:2800:PHE:CE1	1:E:2812:LEU:HD22	2.50	0.45
1:F:1072:TRP:CD1	1:F:1097:VAL:HG22	2.51	0.45
1:F:1450:ALA:N	1:F:1613:ARG:O	2.47	0.45
1:F:1519:VAL:HG13	1:F:1530:LEU:HD23	1.98	0.45
1:F:1702:GLU:OE1	1:F:1712:ALA:N	2.49	0.45
1:F:1723:GLU:C	1:F:1725:SER:H	2.18	0.45
1:F:2246:ALA:N	1:F:2255:ARG:NH1	2.64	0.45
1:F:2452:ASP:HA	1:F:3017:ALA:HA	1.99	0.45
1:F:2619:ARG:HH12	1:F:2779:GLY:HA2	1.81	0.45
1:F:2845:PHE:HD2	1:F:2860:ALA:HA	1.81	0.45
1:F:2889:ILE:HD11	1:F:2922:LEU:HD22	1.98	0.45
1:A:1284:GLY:HA2	1:A:1343:LEU:HD11	1.99	0.45
1:B:47:ALA:O	1:B:353:ASP:HA	2.17	0.45
1:B:222:LEU:HD21	1:B:236:VAL:HA	1.97	0.45
1:B:1553:ALA:O	1:B:1557:GLU:HG2	2.17	0.45
1:B:2361:VAL:HG21	1:B:2401:ILE:HD11	1.98	0.45
1:B:2452:ASP:HA	1:B:3017:ALA:HA	1.99	0.45
1:C:94:ARG:HG3	1:C:95:PRO:HD3	1.98	0.45
1:C:195:ARG:NH1	1:C:198:ILE:HD12	2.31	0.45
1:C:1488:VAL:HB	1:C:1579:VAL:HG22	1.99	0.45
1:C:2246:ALA:N	1:C:2255:ARG:NH1	2.64	0.45
1:D:684:MET:HG3	1:D:895:THR:HA	1.98	0.45
1:D:747:LEU:HD22	1:D:751:ARG:CZ	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1612:GLY:N	1:D:1623:PHE:O	2.48	0.45
1:D:1702:GLU:OE1	1:D:1712:ALA:N	2.49	0.45
1:D:2472:TYR:CZ	1:D:2930:LEU:HD22	2.52	0.45
1:D:2557:LEU:CG	1:C:2702:GLY:HA3	2.45	0.45
1:D:2716:ASN:OD1	1:C:2737:VAL:HG12	2.16	0.45
1:D:2770:LEU:HB3	1:D:2815:GLN:HB3	1.97	0.45
1:E:277:LEU:HD22	1:E:676:GLY:O	2.16	0.45
1:E:745:THR:HG22	1:E:747:LEU:H	1.80	0.45
1:E:1553:ALA:O	1:E:1557:GLU:HG2	2.17	0.45
1:E:1634:ARG:NH1	1:E:1639:ALA:N	2.65	0.45
1:E:2086:SER:HA	1:E:2089:PHE:CG	2.52	0.45
1:E:2614:LYS:HG3	1:B:2583:PHE:HB2	1.97	0.45
1:E:2770:LEU:HB3	1:E:2815:GLN:HB3	1.97	0.45
1:F:84:GLU:HB2	1:F:85:PRO:HD3	1.98	0.45
1:F:784:GLU:OE2	1:F:816:LEU:HD21	2.16	0.45
1:F:1304:LYS:O	1:F:1307:ASP:HB2	2.16	0.45
1:F:1319:ASP:HB2	1:F:1342:ARG:NH1	2.31	0.45
1:F:2614:LYS:HZ2	1:A:2583:PHE:HB2	1.80	0.45
1:A:94:ARG:HG3	1:A:95:PRO:HD3	1.98	0.45
1:A:996:LEU:HA	1:A:1010:LEU:HA	1.97	0.45
1:A:1304:LYS:O	1:A:1307:ASP:HB2	2.16	0.45
1:A:1553:ALA:O	1:A:1557:GLU:HG2	2.17	0.45
1:A:2946:LEU:HD22	1:A:2994:VAL:HG23	1.98	0.45
1:B:195:ARG:NH1	1:B:198:ILE:HD12	2.31	0.45
1:B:381:ARG:O	1:B:384:GLN:HG2	2.17	0.45
1:B:684:MET:HG3	1:B:895:THR:HA	1.98	0.45
1:B:1285:LYS:HB3	1:B:1286:PRO:HD2	1.98	0.45
1:B:2246:ALA:N	1:B:2255:ARG:NH1	2.64	0.45
1:B:2472:TYR:CZ	1:B:2930:LEU:HD22	2.52	0.45
1:B:2619:ARG:HH12	1:B:2779:GLY:HA2	1.81	0.45
1:C:222:LEU:HD13	1:C:248:ILE:HD12	1.99	0.45
1:C:351:ILE:HB	1:C:375:ILE:HG12	1.99	0.45
1:C:763:SER:HB3	1:C:766:ASP:HB2	1.99	0.45
1:C:1319:ASP:HB2	1:C:1342:ARG:NH1	2.31	0.45
1:C:2058:ASP:OD1	1:C:2058:ASP:N	2.46	0.45
1:C:2096:VAL:HG23	1:C:2097:ALA:H	1.80	0.45
1:C:2619:ARG:HH12	1:C:2779:GLY:HA2	1.81	0.45
1:C:2989:LEU:HD12	1:C:2989:LEU:HA	1.77	0.45
1:D:550:LYS:HD3	1:D:577:GLU:OE2	2.17	0.45
1:D:585:HIS:CB	1:D:694:ASP:HB2	2.47	0.45
1:D:1284:GLY:HA2	1:D:1343:LEU:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1304:LYS:O	1:D:1307:ASP:HB2	2.16	0.45
1:D:1462:ALA:HB2	1:D:1468:TYR:HE1	1.81	0.45
1:D:1553:ALA:O	1:D:1557:GLU:HG2	2.17	0.45
1:D:2137:GLU:O	1:D:2163:THR:N	2.30	0.45
1:D:2800:PHE:CE1	1:D:2812:LEU:HD22	2.50	0.45
1:D:2845:PHE:HD2	1:D:2860:ALA:HA	1.82	0.45
1:E:1284:GLY:HA2	1:E:1343:LEU:HD11	1.99	0.45
1:E:1319:ASP:HB2	1:E:1342:ARG:NH1	2.31	0.45
1:E:2889:ILE:HD11	1:E:2922:LEU:HD22	1.98	0.45
1:E:2946:LEU:HD22	1:E:2994:VAL:HG23	1.98	0.45
1:F:207:MET:HG3	1:F:292:VAL:HB	1.98	0.45
1:F:1226:ARG:CG	1:F:1313:VAL:HG12	2.47	0.45
1:F:2212:TRP:HA	1:F:2229:LYS:HB3	1.98	0.45
1:F:2716:ASN:OD1	1:A:2737:VAL:HG12	2.16	0.45
1:F:2957:PRO:HB3	1:F:2979:GLU:C	2.36	0.45
1:A:47:ALA:O	1:A:353:ASP:HA	2.17	0.45
1:A:167:ALA:HB3	1:A:178:LEU:HD21	1.98	0.45
1:A:1072:TRP:CD1	1:A:1097:VAL:HG22	2.51	0.45
1:A:2070:LEU:O	1:A:2074:GLU:HG3	2.16	0.45
1:A:2210:VAL:HB	1:A:2277:ILE:HD11	1.96	0.45
1:A:2879:LEU:HD13	1:A:3009:VAL:HG11	1.98	0.45
1:A:3080:ARG:CG	1:A:3080:ARG:NH1	2.72	0.45
1:B:550:LYS:HD3	1:B:577:GLU:OE2	2.17	0.45
1:B:2092:THR:O	1:B:2092:THR:CG2	2.64	0.45
1:B:2773:GLU:HA	1:B:2776:ILE:HG22	1.97	0.45
1:C:393:VAL:HG12	1:C:394:PRO:N	2.32	0.45
1:C:511:ARG:CB	1:C:540:ASN:HB2	2.46	0.45
1:C:585:HIS:CB	1:C:694:ASP:HB2	2.47	0.45
1:C:799:PHE:CZ	1:C:2433:ARG:CG	2.99	0.45
1:C:868:ARG:HD3	1:C:872:ARG:HH12	1.81	0.45
1:D:868:ARG:HD3	1:D:872:ARG:HH12	1.81	0.45
1:D:1226:ARG:CG	1:D:1313:VAL:HG12	2.47	0.45
1:D:1325:LEU:HD11	1:D:1343:LEU:HD22	1.98	0.45
1:E:1171:PRO:HA	1:E:1191:ARG:HG2	1.99	0.45
1:E:2212:TRP:HA	1:E:2229:LYS:HB3	1.98	0.45
1:E:2610:ARG:NH1	1:E:2700:LEU:HD21	2.31	0.45
1:E:2619:ARG:NH1	1:E:2779:GLY:HA2	2.31	0.45
1:E:2702:GLY:HA3	1:B:2557:LEU:CG	2.46	0.45
1:E:3080:ARG:CG	1:E:3080:ARG:NH1	2.72	0.45
1:F:996:LEU:HA	1:F:1010:LEU:HA	1.97	0.45
1:F:2300:PHE:CZ	1:F:2398:LEU:HB3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2603:ARG:HH12	1:A:2612:PRO:HD2	1.81	0.45
1:F:2845:PHE:CD2	1:F:2860:ALA:HA	2.52	0.45
1:A:585:HIS:CB	1:A:694:ASP:HB2	2.47	0.45
1:A:799:PHE:CZ	1:A:2433:ARG:CG	2.99	0.45
1:A:2246:ALA:N	1:A:2255:ARG:NH1	2.64	0.45
1:A:2543:PHE:HA	1:A:2624:GLN:HE22	1.81	0.45
1:A:2619:ARG:NH1	1:A:2779:GLY:HA2	2.31	0.45
1:A:2785:ALA:HB1	1:A:2809:LEU:HG	1.97	0.45
1:A:2889:ILE:HD11	1:A:2922:LEU:HD22	1.98	0.45
1:B:1237:ARG:CZ	1:C:95:PRO:HB2	2.46	0.45
1:B:1462:ALA:HB2	1:B:1468:TYR:HE1	1.81	0.45
1:C:1284:GLY:HA2	1:C:1343:LEU:HD11	1.99	0.45
1:C:2070:LEU:O	1:C:2074:GLU:HG3	2.16	0.45
1:C:2672:TRP:CD1	1:C:2831:MET:HG2	2.52	0.45
1:C:2845:PHE:CD2	1:C:2860:ALA:HA	2.52	0.45
1:D:1268:GLY:HA2	1:D:1271:LEU:HD12	1.99	0.45
1:D:2482:GLU:HG2	1:D:2956:PRO:HB3	1.97	0.45
1:D:2610:ARG:NH1	1:D:2700:LEU:HD21	2.31	0.45
1:D:2724:GLN:HG2	1:C:3001:HIS:CE1	2.51	0.45
1:D:2845:PHE:CD2	1:D:2860:ALA:HA	2.52	0.45
1:E:195:ARG:NH1	1:E:198:ILE:HD12	2.31	0.45
1:E:1450:ALA:N	1:E:1613:ARG:O	2.48	0.45
1:E:2297:ARG:HH22	1:E:2391:LYS:HZ3	1.65	0.45
1:E:2619:ARG:HH12	1:E:2779:GLY:HA2	1.81	0.45
1:E:2672:TRP:CD1	1:E:2831:MET:HG2	2.52	0.45
1:E:2989:LEU:HD12	1:E:2989:LEU:HA	1.77	0.45
1:F:195:ARG:NH1	1:F:198:ILE:HD12	2.31	0.45
1:F:222:LEU:HD21	1:F:236:VAL:HA	1.97	0.45
1:F:585:HIS:CB	1:F:694:ASP:HB2	2.47	0.45
1:F:966:PRO:HB3	1:F:1258:LEU:HD13	1.99	0.45
1:F:1634:ARG:NH1	1:F:1639:ALA:N	2.65	0.45
1:F:2619:ARG:NH1	1:F:2779:GLY:HA2	2.31	0.45
1:F:2891:LYS:HZ2	1:F:2903:GLU:HG2	1.82	0.45
1:A:222:LEU:HD21	1:A:236:VAL:HA	1.97	0.45
1:A:1462:ALA:HB2	1:A:1468:TYR:HE1	1.81	0.45
1:A:2296:ASN:HB3	1:A:2299:MET:SD	2.57	0.45
1:A:2845:PHE:HD2	1:A:2860:ALA:HA	1.81	0.45
1:B:784:GLU:OE2	1:B:816:LEU:HD21	2.16	0.45
1:B:1226:ARG:CG	1:B:1313:VAL:HG12	2.47	0.45
1:B:1483:LYS:O	1:B:1487:ILE:HG23	2.17	0.45
1:B:1634:ARG:NH1	1:B:1639:ALA:N	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1702:GLU:OE1	1:B:1712:ALA:N	2.49	0.45
1:B:2212:TRP:HA	1:B:2229:LYS:HB3	1.98	0.45
1:B:2879:LEU:HD13	1:B:3009:VAL:HG11	1.98	0.45
1:C:381:ARG:O	1:C:384:GLN:HG2	2.17	0.45
1:D:746:TYR:HB2	1:D:833:ALA:HB1	1.99	0.45
1:D:936:ARG:O	1:D:941:ARG:N	2.45	0.45
1:D:2619:ARG:HH12	1:D:2779:GLY:HA2	1.81	0.45
1:D:2737:VAL:HG12	1:C:2716:ASN:OD1	2.16	0.45
1:E:515:ALA:HA	1:E:516:PRO:HD3	1.84	0.45
1:E:664:LEU:HB3	1:E:701:ALA:HB1	1.99	0.45
1:E:1605:LYS:H	1:E:1658:LYS:HE2	1.82	0.45
1:E:2070:LEU:O	1:E:2074:GLU:HG3	2.16	0.45
1:F:47:ALA:O	1:F:353:ASP:HA	2.17	0.45
1:F:111:GLU:HB2	1:F:112:PRO:HD3	1.98	0.45
1:F:550:LYS:HD3	1:F:577:GLU:OE2	2.17	0.45
1:F:747:LEU:HD22	1:F:751:ARG:CZ	2.47	0.45
1:F:1483:LYS:O	1:F:1487:ILE:HG23	2.17	0.45
1:F:1488:VAL:HB	1:F:1579:VAL:HG22	1.99	0.45
1:A:1133:VAL:O	1:A:1193:ALA:N	2.42	0.45
1:A:3065:PRO:O	1:A:3069:GLN:N	2.42	0.45
1:B:393:VAL:HG12	1:B:394:PRO:N	2.32	0.45
1:B:1093:PRO:HB3	1:B:1277:HIS:CE1	2.52	0.45
1:B:2619:ARG:NH1	1:B:2779:GLY:HA2	2.31	0.45
1:B:2769:ASP:OD1	1:B:2770:LEU:N	2.49	0.45
1:C:47:ALA:O	1:C:353:ASP:HA	2.17	0.45
1:C:664:LEU:HB3	1:C:701:ALA:HB1	1.99	0.45
1:C:747:LEU:HD22	1:C:751:ARG:CZ	2.47	0.45
1:C:1094:THR:O	1:C:1288:PRO:HG2	2.15	0.45
1:C:1612:GLY:N	1:C:1623:PHE:O	2.48	0.45
1:C:2300:PHE:CZ	1:C:2398:LEU:HB3	2.52	0.45
1:D:1684:ASP:HA	1:D:1687:PHE:HD2	1.82	0.45
1:D:2672:TRP:CD1	1:D:2831:MET:HG2	2.52	0.45
1:D:2889:ILE:HD11	1:D:2922:LEU:HD22	1.98	0.45
1:E:207:MET:HG3	1:E:292:VAL:HB	1.98	0.45
1:E:336:TRP:CH2	1:E:360:LEU:HD21	2.52	0.45
1:E:585:HIS:CB	1:E:694:ASP:HB2	2.47	0.45
1:E:1226:ARG:CG	1:E:1313:VAL:HG12	2.47	0.45
1:E:1483:LYS:O	1:E:1487:ILE:HG23	2.17	0.45
1:E:1702:GLU:OE1	1:E:1712:ALA:N	2.49	0.45
1:E:2246:ALA:N	1:E:2255:ARG:NH1	2.64	0.45
1:E:2296:ASN:HB3	1:E:2299:MET:SD	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1133:VAL:O	1:F:1193:ALA:N	2.42	0.45
1:F:2672:TRP:CD1	1:F:2831:MET:HG2	2.52	0.45
1:F:2879:LEU:HD13	1:F:3009:VAL:HG11	1.98	0.45
1:A:207:MET:HG3	1:A:292:VAL:HB	1.98	0.45
1:A:475:LEU:HA	1:A:475:LEU:HD23	1.79	0.45
1:A:1171:PRO:HA	1:A:1191:ARG:HG2	1.99	0.45
1:A:1581:PHE:HB2	1:A:1586:LEU:HD22	1.99	0.45
1:B:746:TYR:HB2	1:B:833:ALA:HB1	1.99	0.45
1:B:1612:GLY:N	1:B:1623:PHE:O	2.48	0.45
1:B:2800:PHE:CE1	1:B:2812:LEU:HD22	2.50	0.45
1:C:745:THR:OG1	1:C:834:GLU:O	2.19	0.45
1:C:1247:ASN:HA	1:C:1248:PRO:HD3	1.83	0.45
1:C:1268:GLY:HA2	1:C:1271:LEU:HD12	1.99	0.45
1:C:1634:ARG:NH1	1:C:1639:ALA:N	2.65	0.45
1:C:2086:SER:HA	1:C:2089:PHE:CG	2.51	0.45
1:C:2769:ASP:OD1	1:C:2770:LEU:N	2.49	0.45
1:D:2092:THR:O	1:D:2092:THR:CG2	2.64	0.44
1:D:2300:PHE:CZ	1:D:2398:LEU:HB3	2.52	0.44
1:E:111:GLU:HB2	1:E:112:PRO:HD3	1.98	0.44
1:E:1581:PHE:HB2	1:E:1586:LEU:HD22	1.99	0.44
1:F:2246:ALA:N	1:F:2255:ARG:HH12	2.16	0.44
1:F:2724:GLN:HG2	1:A:3001:HIS:CE1	2.51	0.44
1:A:336:TRP:CH2	1:A:360:LEU:HD21	2.52	0.44
1:A:2770:LEU:HB3	1:A:2815:GLN:HB3	1.97	0.44
1:B:534:ASP:O	1:B:538:GLU:HG3	2.16	0.44
1:B:2957:PRO:HB3	1:B:2979:GLU:C	2.37	0.44
1:B:2958:ASN:HD22	1:B:2976:TRP:HE1	1.65	0.44
1:C:1226:ARG:CG	1:C:1313:VAL:HG12	2.47	0.44
1:C:1325:LEU:HD11	1:C:1343:LEU:HD22	1.98	0.44
1:C:1553:ALA:O	1:C:1557:GLU:HG2	2.17	0.44
1:C:1684:ASP:HA	1:C:1687:PHE:HD2	1.82	0.44
1:C:2472:TYR:CZ	1:C:2930:LEU:HD22	2.52	0.44
1:C:2555:SER:HA	1:C:2556:PRO:HD2	1.85	0.44
1:D:763:SER:HB3	1:D:766:ASP:HB2	1.99	0.44
1:D:1488:VAL:HB	1:D:1579:VAL:HG22	1.99	0.44
1:D:1519:VAL:HG13	1:D:1530:LEU:HD23	1.98	0.44
1:D:1581:PHE:HB2	1:D:1586:LEU:HD22	1.99	0.44
1:D:2058:ASP:OD1	1:D:2058:ASP:N	2.46	0.44
1:D:2086:SER:HA	1:D:2089:PHE:CG	2.52	0.44
1:D:2879:LEU:HD13	1:D:3009:VAL:HG11	1.98	0.44
1:D:2891:LYS:HZ2	1:D:2903:GLU:HG2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:393:VAL:HG12	1:E:394:PRO:N	2.32	0.44
1:E:768:LYS:HA	1:E:775:LEU:HD11	1.98	0.44
1:E:1093:PRO:HB3	1:E:1277:HIS:CE1	2.52	0.44
1:E:1304:LYS:O	1:E:1307:ASP:HB2	2.16	0.44
1:E:2092:THR:O	1:E:2092:THR:CG2	2.64	0.44
1:E:2234:PRO:HB2	1:E:2287:LEU:HD13	1.98	0.44
1:E:2831:MET:HE2	1:E:2831:MET:HB3	1.87	0.44
1:F:746:TYR:HB2	1:F:833:ALA:HB1	1.99	0.44
1:F:1171:PRO:HA	1:F:1191:ARG:HG2	1.99	0.44
1:F:1268:GLY:HA2	1:F:1271:LEU:HD12	1.99	0.44
1:F:1284:GLY:HA2	1:F:1343:LEU:HD11	1.99	0.44
1:F:1581:PHE:HB2	1:F:1586:LEU:HD22	1.99	0.44
1:F:2296:ASN:HB3	1:F:2299:MET:SD	2.57	0.44
1:F:2472:TYR:CZ	1:F:2930:LEU:HD22	2.52	0.44
1:F:2610:ARG:NH1	1:F:2700:LEU:HD21	2.31	0.44
1:F:2737:VAL:HG12	1:A:2716:ASN:OD1	2.16	0.44
1:A:195:ARG:NH1	1:A:198:ILE:HD12	2.31	0.44
1:A:540:ASN:ND2	1:A:544:ILE:HG13	2.30	0.44
1:A:664:LEU:HB3	1:A:701:ALA:HB1	1.99	0.44
1:A:1634:ARG:NH1	1:A:1639:ALA:H	2.11	0.44
1:A:2246:ALA:N	1:A:2255:ARG:HH12	2.15	0.44
1:B:763:SER:HB3	1:B:766:ASP:HB2	1.99	0.44
1:B:1133:VAL:O	1:B:1193:ALA:N	2.42	0.44
1:B:1284:GLY:HA2	1:B:1343:LEU:HD11	1.99	0.44
1:B:2070:LEU:O	1:B:2074:GLU:HG3	2.16	0.44
1:B:2096:VAL:HG13	1:B:2097:ALA:H	1.80	0.44
1:B:2209:LEU:O	1:B:2213:VAL:HG23	2.18	0.44
1:B:2300:PHE:CZ	1:B:2398:LEU:HB3	2.52	0.44
1:C:2770:LEU:HB3	1:C:2815:GLN:HB3	1.97	0.44
1:D:2212:TRP:HA	1:D:2229:LYS:HB3	1.98	0.44
1:D:2702:GLY:HA3	1:C:2557:LEU:CG	2.46	0.44
1:E:1519:VAL:HG13	1:E:1530:LEU:HD23	1.98	0.44
1:E:2472:TYR:CZ	1:E:2930:LEU:HD22	2.52	0.44
1:F:511:ARG:CB	1:F:540:ASN:HB2	2.46	0.44
1:F:763:SER:HB3	1:F:766:ASP:HB2	1.99	0.44
1:F:1455:VAL:HB	1:F:1480:ARG:HH12	1.80	0.44
1:F:2769:ASP:OD1	1:F:2770:LEU:N	2.49	0.44
1:A:163:LEU:HD13	1:A:181:LEU:HD23	2.00	0.44
1:A:745:THR:OG1	1:A:834:GLU:O	2.19	0.44
1:A:746:TYR:HB2	1:A:833:ALA:HB1	1.99	0.44
1:A:1226:ARG:CG	1:A:1313:VAL:HG12	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2234:PRO:HB2	1:A:2287:LEU:HD13	1.98	0.44
1:A:2462:VAL:HG13	1:A:2835:VAL:HG13	2.00	0.44
1:A:2903:GLU:OE2	1:A:2995:THR:OG1	2.36	0.44
1:B:996:LEU:HA	1:B:1010:LEU:HA	1.98	0.44
1:B:1488:VAL:HB	1:B:1579:VAL:HG22	1.99	0.44
1:B:1619:VAL:HA	1:B:1620:PRO:HD2	1.80	0.44
1:B:1684:ASP:HA	1:B:1687:PHE:HD2	1.82	0.44
1:C:1483:LYS:O	1:C:1487:ILE:HG23	2.17	0.44
1:C:1519:VAL:HG13	1:C:1530:LEU:HD23	1.99	0.44
1:C:1580:PRO:O	1:C:1583:SER:OG	2.22	0.44
1:C:1605:LYS:H	1:C:1658:LYS:HE2	1.82	0.44
1:C:2212:TRP:HA	1:C:2229:LYS:HB3	1.98	0.44
1:D:1634:ARG:NH1	1:D:1639:ALA:N	2.65	0.44
1:D:2462:VAL:HG13	1:D:2835:VAL:HG13	2.00	0.44
1:D:2891:LYS:HG3	1:D:2924:ILE:HD13	1.98	0.44
1:E:163:LEU:HD13	1:E:181:LEU:HD23	2.00	0.44
1:E:1285:LYS:HB3	1:E:1286:PRO:HD2	1.99	0.44
1:E:1350:TYR:CD1	1:E:1703:ILE:HD11	2.53	0.44
1:E:1352:PHE:HA	1:E:1353:PRO:HD3	1.72	0.44
1:E:2879:LEU:HD13	1:E:3009:VAL:HG11	1.98	0.44
1:F:782:ARG:NH1	1:F:857:VAL:HG22	2.33	0.44
1:F:1037:ASP:HB2	1:F:1041:ALA:CB	2.36	0.44
1:F:1093:PRO:HB3	1:F:1277:HIS:CE1	2.52	0.44
1:F:2958:ASN:HD22	1:F:2976:TRP:HE1	1.65	0.44
1:A:747:LEU:HD22	1:A:751:ARG:CZ	2.47	0.44
1:A:784:GLU:OE2	1:A:816:LEU:HD21	2.16	0.44
1:A:936:ARG:O	1:A:941:ARG:N	2.45	0.44
1:A:1072:TRP:HE1	1:A:1077:VAL:HG22	1.80	0.44
1:A:2092:THR:O	1:A:2092:THR:CG2	2.64	0.44
1:A:2672:TRP:CD1	1:A:2831:MET:HG2	2.52	0.44
1:B:747:LEU:HD22	1:B:751:ARG:CZ	2.47	0.44
1:B:1352:PHE:HA	1:B:1353:PRO:HD3	1.72	0.44
1:B:1581:PHE:HB2	1:B:1586:LEU:HD22	1.99	0.44
1:B:2246:ALA:N	1:B:2255:ARG:HH12	2.16	0.44
1:B:2903:GLU:OE2	1:B:2995:THR:OG1	2.36	0.44
1:C:550:LYS:HD3	1:C:577:GLU:OE2	2.17	0.44
1:C:1093:PRO:HB3	1:C:1277:HIS:CE1	2.52	0.44
1:C:2462:VAL:HG13	1:C:2835:VAL:HG13	2.00	0.44
1:D:782:ARG:NH1	1:D:857:VAL:HG22	2.33	0.44
1:D:1503:ILE:HB	1:D:1542:TYR:HB2	2.00	0.44
1:D:2014:SER:H	1:E:2591:ARG:HH12	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2246:ALA:N	1:D:2255:ARG:HH12	2.16	0.44
1:E:381:ARG:O	1:E:384:GLN:HG2	2.17	0.44
1:E:412:ASP:H	1:E:1025:VAL:CG2	2.31	0.44
1:E:782:ARG:NH1	1:E:857:VAL:HG22	2.33	0.44
1:E:1462:ALA:HB2	1:E:1468:TYR:HE1	1.81	0.44
1:F:575:HIS:CD2	1:F:644:LEU:HD22	2.49	0.44
1:F:970:ILE:HG23	1:F:992:THR:HG21	2.00	0.44
1:A:222:LEU:HD13	1:A:248:ILE:HD12	1.99	0.44
1:A:1350:TYR:CD1	1:A:1703:ILE:HD11	2.53	0.44
1:A:1634:ARG:NH1	1:A:1639:ALA:N	2.65	0.44
1:A:2252:VAL:HG22	1:A:2255:ARG:HH21	1.82	0.44
1:A:2452:ASP:HA	1:A:3017:ALA:HA	1.99	0.44
1:A:2471:PRO:HA	1:A:2625:ILE:HA	2.00	0.44
1:A:2753:LYS:HD3	1:A:2753:LYS:HA	1.83	0.44
1:B:438:THR:HA	1:B:880:HIS:CE1	2.51	0.44
1:B:515:ALA:HA	1:B:516:PRO:HD3	1.84	0.44
1:C:88:SER:HB3	1:C:314:THR:OG1	2.18	0.44
1:C:336:TRP:CH2	1:C:360:LEU:HD21	2.52	0.44
1:C:1350:TYR:CD1	1:C:1703:ILE:HD11	2.53	0.44
1:C:1503:ILE:HB	1:C:1542:TYR:HB2	2.00	0.44
1:C:1723:GLU:O	1:C:1725:SER:N	2.51	0.44
1:C:2879:LEU:HD13	1:C:3009:VAL:HG11	1.98	0.44
1:C:2889:ILE:HD11	1:C:2922:LEU:HD22	1.98	0.44
1:D:2471:PRO:HA	1:D:2625:ILE:HA	2.00	0.44
1:D:2580:PHE:HE1	1:D:2603:ARG:HH21	1.66	0.44
1:E:47:ALA:O	1:E:353:ASP:HA	2.17	0.44
1:E:2014:SER:H	1:F:2591:ARG:HH12	1.65	0.44
1:E:2845:PHE:CD2	1:E:2860:ALA:HA	2.52	0.44
1:F:222:LEU:HD13	1:F:248:ILE:HD12	1.99	0.44
1:F:671:THR:HB	1:F:682:ASN:CG	2.38	0.44
1:F:1072:TRP:HE1	1:F:1077:VAL:HG22	1.80	0.44
1:F:1723:GLU:O	1:F:1725:SER:N	2.51	0.44
1:A:782:ARG:NH1	1:A:857:VAL:HG22	2.33	0.44
1:A:868:ARG:HD3	1:A:872:ARG:HH12	1.81	0.44
1:A:1268:GLY:HA2	1:A:1271:LEU:HD12	1.99	0.44
1:A:1285:LYS:HB3	1:A:1286:PRO:HD2	1.99	0.44
1:A:1605:LYS:H	1:A:1658:LYS:HE2	1.82	0.44
1:A:2591:ARG:HH12	1:C:2014:SER:H	1.65	0.44
1:B:210:VAL:HG22	1:B:287:PHE:HD1	1.82	0.44
1:B:336:TRP:CH2	1:B:360:LEU:HD21	2.52	0.44
1:B:1171:PRO:HA	1:B:1191:ARG:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1350:TYR:CD1	1:B:1703:ILE:HD11	2.53	0.44
1:B:1705:VAL:O	1:B:1735:GLU:HB2	2.18	0.44
1:B:2296:ASN:HB3	1:B:2299:MET:SD	2.57	0.44
1:B:2580:PHE:HE1	1:B:2603:ARG:HH21	1.66	0.44
1:C:1581:PHE:HB2	1:C:1586:LEU:HD22	1.99	0.44
1:C:2252:VAL:HG22	1:C:2255:ARG:HH21	1.82	0.44
1:C:2710:LEU:O	1:C:2713:VAL:HG22	2.18	0.44
1:D:664:LEU:HB3	1:D:701:ALA:HB1	1.99	0.44
1:D:1285:LYS:HB3	1:D:1286:PRO:HD2	1.99	0.44
1:D:1350:TYR:CD1	1:D:1703:ILE:HD11	2.53	0.44
1:D:1537:LEU:HD13	1:D:1541:GLN:HB2	2.00	0.44
1:D:2591:ARG:NH1	1:F:2014:SER:N	2.66	0.44
1:E:438:THR:HA	1:E:880:HIS:CE1	2.51	0.44
1:E:763:SER:HB3	1:E:766:ASP:HB2	1.99	0.44
1:E:1268:GLY:HA2	1:E:1271:LEU:HD12	1.99	0.44
1:E:1488:VAL:HB	1:E:1579:VAL:HG22	1.99	0.44
1:E:2471:PRO:HA	1:E:2625:ILE:HA	2.00	0.44
1:F:88:SER:HB3	1:F:314:THR:OG1	2.18	0.44
1:F:163:LEU:HD13	1:F:181:LEU:HD23	2.00	0.44
1:F:381:ARG:O	1:F:384:GLN:HG2	2.17	0.44
1:F:412:ASP:H	1:F:1025:VAL:CG2	2.31	0.44
1:F:657:THR:HB	1:F:662:LYS:HE3	2.00	0.44
1:F:2209:LEU:O	1:F:2213:VAL:HG23	2.18	0.44
1:F:2831:MET:HB3	1:F:2831:MET:HE2	1.87	0.44
1:A:210:VAL:HG22	1:A:287:PHE:HD1	1.83	0.44
1:A:816:LEU:HD23	1:A:816:LEU:HA	1.83	0.44
1:A:1488:VAL:HB	1:A:1579:VAL:HG22	1.99	0.44
1:A:1519:VAL:HG13	1:A:1530:LEU:HD23	1.98	0.44
1:A:2014:SER:H	1:B:2591:ARG:HH12	1.66	0.44
1:A:2845:PHE:CD2	1:A:2860:ALA:HA	2.52	0.44
1:B:412:ASP:H	1:B:1025:VAL:CG2	2.31	0.44
1:B:583:GLY:HA2	1:B:892:ILE:HD13	2.00	0.44
1:B:585:HIS:CB	1:B:694:ASP:HB2	2.47	0.44
1:B:602:ARG:NH2	1:B:641:ASP:OD1	2.27	0.44
1:B:782:ARG:NH1	1:B:857:VAL:HG22	2.33	0.44
1:B:1605:LYS:H	1:B:1658:LYS:HE2	1.82	0.44
1:B:1723:GLU:O	1:B:1725:SER:N	2.51	0.44
1:B:2014:SER:N	1:C:2591:ARG:NH1	2.66	0.44
1:B:2297:ARG:HH22	1:B:2391:LYS:HZ3	1.66	0.44
1:C:583:GLY:HA2	1:C:892:ILE:HD13	1.99	0.44
1:C:671:THR:HB	1:C:682:ASN:CG	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2471:PRO:HA	1:C:2625:ILE:HA	2.00	0.44
1:D:516:PRO:HA	1:D:962:MET:SD	2.58	0.44
1:D:1605:LYS:H	1:D:1658:LYS:HE2	1.82	0.44
1:D:2014:SER:N	1:E:2591:ARG:NH1	2.66	0.44
1:D:2452:ASP:HA	1:D:3017:ALA:HA	1.99	0.44
1:E:671:THR:HB	1:E:682:ASN:CG	2.38	0.44
1:E:747:LEU:HD22	1:E:751:ARG:CZ	2.47	0.44
1:E:1695:LEU:HD12	1:E:1695:LEU:HA	1.71	0.44
1:F:1350:TYR:CD1	1:F:1703:ILE:HD11	2.53	0.44
1:F:1462:ALA:HB2	1:F:1468:TYR:HE1	1.81	0.44
1:F:1684:ASP:HA	1:F:1687:PHE:HD2	1.82	0.44
1:F:1705:VAL:O	1:F:1735:GLU:HB2	2.18	0.44
1:F:2541:ARG:O	1:F:2621:VAL:HG13	2.18	0.44
1:F:2737:VAL:N	1:A:2735:HIS:O	2.51	0.44
1:A:412:ASP:H	1:A:1025:VAL:CG2	2.31	0.44
1:A:2472:TYR:CZ	1:A:2930:LEU:HD22	2.52	0.44
1:B:2014:SER:H	1:C:2591:ARG:HH12	1.65	0.44
1:B:2845:PHE:CD2	1:B:2860:ALA:HA	2.52	0.44
1:C:344:HIS:CD2	1:C:373:ILE:HG13	2.53	0.44
1:C:970:ILE:HG23	1:C:992:THR:HG21	2.00	0.44
1:D:412:ASP:H	1:D:1025:VAL:CG2	2.31	0.44
1:D:475:LEU:HA	1:D:475:LEU:HD23	1.79	0.44
1:D:671:THR:HB	1:D:682:ASN:CG	2.38	0.44
1:D:931:VAL:HG13	1:D:934:LEU:N	2.21	0.44
1:D:1723:GLU:O	1:D:1725:SER:N	2.51	0.44
1:E:745:THR:OG1	1:E:834:GLU:O	2.19	0.44
1:E:1072:TRP:HE1	1:E:1077:VAL:HG22	1.80	0.44
1:E:1503:ILE:HB	1:E:1542:TYR:HB2	2.00	0.44
1:F:1352:PHE:HA	1:F:1353:PRO:HD3	1.72	0.44
1:F:2252:VAL:HG22	1:F:2255:ARG:HH21	1.82	0.44
1:F:2554:ALA:HB1	1:F:2614:LYS:HZ2	1.81	0.44
1:A:550:LYS:HD3	1:A:577:GLU:OE2	2.17	0.44
1:A:583:GLY:HA2	1:A:892:ILE:HD13	2.00	0.44
1:A:671:THR:HB	1:A:682:ASN:CG	2.38	0.44
1:A:763:SER:HB3	1:A:766:ASP:HB2	1.99	0.44
1:A:857:VAL:HG13	1:A:859:PHE:H	1.83	0.44
1:A:1537:LEU:HD13	1:A:1541:GLN:HB2	2.00	0.44
1:A:1723:GLU:O	1:A:1725:SER:N	2.51	0.44
1:B:88:SER:HB3	1:B:314:THR:OG1	2.18	0.44
1:B:222:LEU:HD13	1:B:248:ILE:HD12	1.99	0.44
1:B:657:THR:HB	1:B:662:LYS:HE3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:782:ARG:HH11	1:B:857:VAL:HG22	1.83	0.44
1:B:1503:ILE:HB	1:B:1542:TYR:HB2	2.00	0.44
1:C:782:ARG:NH1	1:C:857:VAL:HG22	2.33	0.44
1:C:816:LEU:HD23	1:C:816:LEU:HA	1.83	0.44
1:C:1450:ALA:N	1:C:1613:ARG:O	2.48	0.44
1:C:1537:LEU:HD13	1:C:1541:GLN:HB2	2.00	0.44
1:D:970:ILE:HG23	1:D:992:THR:HG21	2.00	0.43
1:D:1171:PRO:HA	1:D:1191:ARG:HG2	1.99	0.43
1:D:1582:HIS:HA	1:D:1674:ALA:O	2.18	0.43
1:D:2296:ASN:HB3	1:D:2299:MET:SD	2.57	0.43
1:D:3044:ALA:HB1	1:D:3050:PRO:HB3	2.00	0.43
1:E:2180:LYS:HZ1	1:E:2962:ASP:HB3	1.83	0.43
1:E:2710:LEU:O	1:E:2713:VAL:HG22	2.18	0.43
1:F:959:ALA:HB1	1:F:1126:ILE:C	2.35	0.43
1:F:1285:LYS:HB3	1:F:1286:PRO:HD2	1.99	0.43
1:F:2299:MET:H	1:F:2299:MET:HG2	1.68	0.43
1:F:2361:VAL:HG21	1:F:2401:ILE:HD11	1.98	0.43
1:F:2580:PHE:HE1	1:F:2603:ARG:HH21	1.66	0.43
1:F:2710:LEU:O	1:F:2713:VAL:HG22	2.18	0.43
1:F:3044:ALA:HB1	1:F:3050:PRO:HB3	2.00	0.43
1:A:344:HIS:CD2	1:A:373:ILE:HG13	2.53	0.43
1:A:516:PRO:HA	1:A:962:MET:SD	2.58	0.43
1:A:874:ASP:OD2	1:A:877:TRP:CD1	2.71	0.43
1:A:1503:ILE:HB	1:A:1542:TYR:HB2	2.00	0.43
1:A:1551:LEU:HD13	1:A:1551:LEU:HA	1.79	0.43
1:A:1684:ASP:HA	1:A:1687:PHE:HD2	1.82	0.43
1:A:2014:SER:N	1:B:2591:ARG:HH12	2.16	0.43
1:A:2591:ARG:HH12	1:C:2014:SER:N	2.16	0.43
1:B:351:ILE:HB	1:B:375:ILE:HG12	1.99	0.43
1:B:2831:MET:HE2	1:B:2831:MET:HB3	1.87	0.43
1:C:34:LEU:O	1:C:38:LEU:HG	2.18	0.43
1:C:874:ASP:OD2	1:C:877:TRP:CD1	2.72	0.43
1:C:2246:ALA:N	1:C:2255:ARG:HH12	2.15	0.43
1:C:2296:ASN:HB3	1:C:2299:MET:SD	2.57	0.43
1:D:2334:HIS:CD2	1:D:2391:LYS:HG3	2.50	0.43
1:E:695:ILE:HG22	1:E:697:GLU:HG3	2.00	0.43
1:E:1537:LEU:HD13	1:E:1541:GLN:HB2	2.00	0.43
1:E:2115:HIS:HA	1:E:2118:LEU:CG	2.48	0.43
1:F:344:HIS:CD2	1:F:373:ILE:HG13	2.53	0.43
1:F:958:TRP:HZ3	1:F:1130:LEU:HB2	1.83	0.43
1:F:2334:HIS:CD2	1:F:2391:LYS:HG3	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2735:HIS:O	1:A:2737:VAL:N	2.51	0.43
1:A:398:ARG:HA	1:A:399:PRO:HD2	1.86	0.43
1:A:782:ARG:HH11	1:A:857:VAL:HG22	1.83	0.43
1:A:2300:PHE:CZ	1:A:2398:LEU:HB3	2.52	0.43
1:A:2958:ASN:HD22	1:A:2976:TRP:HE1	1.65	0.43
1:B:516:PRO:HA	1:B:962:MET:SD	2.58	0.43
1:B:1733:ASN:H	1:B:1737:ASP:HB2	1.83	0.43
1:C:516:PRO:HA	1:C:962:MET:SD	2.58	0.43
1:C:695:ILE:HG22	1:C:697:GLU:HG3	2.00	0.43
1:C:2452:ASP:HA	1:C:3017:ALA:HA	1.99	0.43
1:C:2958:ASN:HD22	1:C:2976:TRP:HE1	1.65	0.43
1:C:3044:ALA:HB1	1:C:3050:PRO:HB3	2.00	0.43
1:D:1705:VAL:O	1:D:1735:GLU:HB2	2.18	0.43
1:D:2032:VAL:HG11	1:B:2032:VAL:HG11	2.01	0.43
1:D:2115:HIS:HA	1:D:2118:LEU:CG	2.49	0.43
1:E:88:SER:HB3	1:E:314:THR:OG1	2.18	0.43
1:E:344:HIS:CD2	1:E:373:ILE:HG13	2.53	0.43
1:E:351:ILE:HB	1:E:375:ILE:HG12	1.99	0.43
1:E:1317:GLY:O	1:E:1324:VAL:HG12	2.19	0.43
1:E:1705:VAL:O	1:E:1735:GLU:HB2	2.18	0.43
1:E:1733:ASN:H	1:E:1737:ASP:HB2	1.83	0.43
1:E:2300:PHE:CZ	1:E:2398:LEU:HB3	2.52	0.43
1:E:2580:PHE:HE1	1:E:2603:ARG:HH21	1.66	0.43
1:F:276:LYS:HB3	1:F:587:TRP:CH2	2.53	0.43
1:F:393:VAL:HG12	1:F:394:PRO:N	2.32	0.43
1:F:583:GLY:HA2	1:F:892:ILE:HD13	1.99	0.43
1:F:1637:VAL:HA	1:F:1638:PRO:HD2	1.90	0.43
1:F:2462:VAL:HG13	1:F:2835:VAL:HG13	2.00	0.43
1:A:2096:VAL:HG23	1:A:2097:ALA:H	1.80	0.43
1:B:163:LEU:HD13	1:B:181:LEU:HD23	2.00	0.43
1:B:544:ILE:O	1:B:546:HIS:N	2.40	0.43
1:B:671:THR:HB	1:B:682:ASN:CG	2.38	0.43
1:B:1268:GLY:HA2	1:B:1271:LEU:HD12	1.99	0.43
1:B:3044:ALA:HB1	1:B:3050:PRO:HB3	2.00	0.43
1:C:315:VAL:C	1:C:317:LEU:H	2.22	0.43
1:C:2297:ARG:HH22	1:C:2391:LYS:HZ3	1.64	0.43
1:C:2334:HIS:CD2	1:C:2391:LYS:HG3	2.50	0.43
1:C:2891:LYS:HG3	1:C:2924:ILE:HD13	1.98	0.43
1:C:2903:GLU:OE2	1:C:2995:THR:OG1	2.36	0.43
1:D:782:ARG:HH11	1:D:857:VAL:HG22	1.83	0.43
1:D:874:ASP:OD2	1:D:877:TRP:CD1	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1483:LYS:O	1:D:1487:ILE:HG23	2.17	0.43
1:D:2958:ASN:HD22	1:D:2976:TRP:HE1	1.65	0.43
1:E:34:LEU:O	1:E:38:LEU:HG	2.18	0.43
1:E:1013:THR:CG2	1:E:1014:TRP:H	1.96	0.43
1:E:2209:LEU:O	1:E:2213:VAL:HG23	2.18	0.43
1:E:2252:VAL:HG22	1:E:2255:ARG:HH21	1.82	0.43
1:E:2737:VAL:N	1:B:2735:HIS:O	2.51	0.43
1:F:336:TRP:CH2	1:F:360:LEU:HD21	2.52	0.43
1:F:513:SER:HB3	1:F:961:ARG:NH1	2.33	0.43
1:F:1634:ARG:NH1	1:F:1639:ALA:H	2.11	0.43
1:F:2092:THR:O	1:F:2092:THR:CG2	2.64	0.43
1:F:2903:GLU:OE2	1:F:2995:THR:OG1	2.36	0.43
1:A:34:LEU:O	1:A:38:LEU:HG	2.19	0.43
1:A:351:ILE:HB	1:A:375:ILE:HG12	1.99	0.43
1:A:657:THR:HB	1:A:662:LYS:HE3	2.00	0.43
1:A:658:SER:HB2	1:A:661:VAL:HG23	2.01	0.43
1:A:1582:HIS:HA	1:A:1674:ALA:O	2.18	0.43
1:A:2591:ARG:NH1	1:C:2014:SER:N	2.66	0.43
1:A:2710:LEU:O	1:A:2713:VAL:HG22	2.18	0.43
1:B:315:VAL:C	1:B:317:LEU:H	2.22	0.43
1:B:575:HIS:CD2	1:B:644:LEU:HD22	2.49	0.43
1:B:647:THR:N	2:B:4000:FMN:O3P	2.51	0.43
1:B:658:SER:HB2	1:B:661:VAL:HG23	2.01	0.43
1:B:874:ASP:OD2	1:B:877:TRP:CD1	2.72	0.43
1:B:2296:ASN:ND2	1:B:2395:THR:HG21	2.34	0.43
1:C:369:ARG:HD2	1:C:369:ARG:HA	1.85	0.43
1:C:647:THR:N	2:C:4000:FMN:O3P	2.51	0.43
1:C:857:VAL:HG13	1:C:859:PHE:H	1.83	0.43
1:C:1504:ARG:HA	1:C:1540:SER:O	2.19	0.43
1:C:1660:LEU:HD23	1:C:1660:LEU:HA	1.86	0.43
1:C:2209:LEU:O	1:C:2213:VAL:HG23	2.17	0.43
1:D:583:GLY:HA2	1:D:892:ILE:HD13	2.00	0.43
1:D:658:SER:HB2	1:D:661:VAL:HG23	2.00	0.43
1:D:1317:GLY:O	1:D:1324:VAL:HG12	2.19	0.43
1:D:1733:ASN:H	1:D:1737:ASP:HB2	1.83	0.43
1:E:647:THR:N	2:E:4000:FMN:O3P	2.51	0.43
1:E:657:THR:HB	1:E:662:LYS:HE3	2.00	0.43
1:E:2014:SER:N	1:F:2591:ARG:NH1	2.66	0.43
1:E:2452:ASP:HA	1:E:3017:ALA:HA	1.99	0.43
1:E:2541:ARG:O	1:E:2621:VAL:HG13	2.18	0.43
1:E:2735:HIS:O	1:B:2737:VAL:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:210:VAL:HG22	1:F:287:PHE:HD1	1.82	0.43
1:F:1605:LYS:H	1:F:1658:LYS:HE2	1.82	0.43
1:F:2032:VAL:HG11	1:C:2032:VAL:HG11	2.00	0.43
1:F:2137:GLU:O	1:F:2163:THR:N	2.30	0.43
1:F:2512:TRP:O	1:F:2520:LEU:HD12	2.19	0.43
1:A:393:VAL:HG12	1:A:394:PRO:N	2.32	0.43
1:A:695:ILE:HG22	1:A:697:GLU:HG3	2.01	0.43
1:A:2014:SER:N	1:B:2591:ARG:NH1	2.66	0.43
1:A:2209:LEU:O	1:A:2213:VAL:HG23	2.18	0.43
1:B:341:THR:HG23	1:B:344:HIS:ND1	2.34	0.43
1:B:511:ARG:CB	1:B:540:ASN:HB2	2.46	0.43
1:C:658:SER:HB2	1:C:661:VAL:HG23	2.00	0.43
1:D:580:ARG:HD3	1:D:896:ALA:HB3	2.01	0.43
1:D:683:GLY:CA	1:D:700:ASN:HB2	2.44	0.43
1:D:1163:ASP:HA	1:D:1168:ARG:HA	2.01	0.43
1:D:1504:ARG:HA	1:D:1540:SER:O	2.19	0.43
1:D:2209:LEU:O	1:D:2213:VAL:HG23	2.18	0.43
1:D:2748:GLU:HG2	1:C:2753:LYS:HZ2	1.81	0.43
1:E:516:PRO:HA	1:E:962:MET:SD	2.58	0.43
1:E:580:ARG:HD3	1:E:896:ALA:HB3	2.01	0.43
1:E:746:TYR:HB2	1:E:833:ALA:HB1	1.99	0.43
1:E:856:PRO:HG2	1:E:874:ASP:HB2	2.00	0.43
1:E:1084:THR:CG2	1:E:1274:ALA:HA	2.48	0.43
1:E:1087:PHE:HD2	1:F:117:LYS:HZ1	1.66	0.43
1:E:1582:HIS:HA	1:E:1674:ALA:O	2.18	0.43
1:F:42:GLU:HA	1:F:43:PRO:HD3	1.91	0.43
1:F:351:ILE:HB	1:F:375:ILE:HG12	1.99	0.43
1:F:658:SER:HB2	1:F:661:VAL:HG23	2.00	0.43
1:F:695:ILE:HG22	1:F:697:GLU:HG3	2.00	0.43
1:F:856:PRO:HG2	1:F:874:ASP:HB2	2.00	0.43
1:F:857:VAL:HG13	1:F:859:PHE:H	1.83	0.43
1:F:936:ARG:O	1:F:941:ARG:N	2.45	0.43
1:F:2297:ARG:HH12	1:F:2391:LYS:NZ	2.17	0.43
1:F:2610:ARG:NH1	1:F:2700:LEU:HD11	2.25	0.43
1:A:580:ARG:HD3	1:A:896:ALA:HB3	2.01	0.43
1:A:647:THR:N	2:A:4000:FMN:O3P	2.51	0.43
1:A:1733:ASN:H	1:A:1737:ASP:HB2	1.83	0.43
1:B:34:LEU:O	1:B:38:LEU:HG	2.18	0.43
1:B:695:ILE:HG22	1:B:697:GLU:HG3	2.01	0.43
1:B:1504:ARG:HA	1:B:1540:SER:O	2.19	0.43
1:B:1582:HIS:HA	1:B:1674:ALA:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2115:HIS:HA	1:B:2118:LEU:CG	2.48	0.43
1:B:2512:TRP:O	1:B:2520:LEU:HD12	2.19	0.43
1:B:2710:LEU:O	1:B:2713:VAL:HG22	2.18	0.43
1:B:2891:LYS:HZ1	1:B:2903:GLU:HB3	1.84	0.43
1:C:341:THR:HG23	1:C:344:HIS:ND1	2.34	0.43
1:C:412:ASP:H	1:C:1025:VAL:CG2	2.31	0.43
1:C:782:ARG:HH11	1:C:857:VAL:HG22	1.83	0.43
1:C:1117:ALA:HA	1:C:1120:GLU:HB2	2.01	0.43
1:C:1163:ASP:HA	1:C:1168:ARG:HA	2.01	0.43
1:C:2512:TRP:O	1:C:2520:LEU:HD12	2.19	0.43
1:C:2610:ARG:NH1	1:C:2700:LEU:HD11	2.25	0.43
1:E:583:GLY:HA2	1:E:892:ILE:HD13	2.00	0.43
1:E:857:VAL:HG13	1:E:859:PHE:H	1.83	0.43
1:E:1612:GLY:N	1:E:1623:PHE:O	2.48	0.43
1:E:1672:GLN:HE21	1:E:1672:GLN:HB3	1.58	0.43
1:E:1723:GLU:O	1:E:1725:SER:N	2.51	0.43
1:E:2246:ALA:N	1:E:2255:ARG:HH12	2.15	0.43
1:F:70:SER:HG	1:F:142:ARG:HH22	1.65	0.43
1:F:2810:GLY:HA2	1:F:2896:THR:HG22	2.01	0.43
1:A:575:HIS:CD2	1:A:644:LEU:HD22	2.49	0.43
1:A:2088:ARG:C	1:A:2188:ARG:NH1	2.72	0.43
1:A:2115:HIS:HA	1:A:2118:LEU:CG	2.49	0.43
1:A:2706:PRO:O	1:A:2709:ILE:HG12	2.19	0.43
1:B:276:LYS:HB3	1:B:587:TRP:CH2	2.53	0.43
1:B:307:ILE:HG22	1:B:311:TRP:CE2	2.54	0.43
1:C:340:ILE:HD11	1:C:351:ILE:HD13	2.00	0.43
1:C:1582:HIS:HA	1:C:1674:ALA:O	2.18	0.43
1:C:2088:ARG:C	1:C:2188:ARG:NH1	2.72	0.43
1:C:2541:ARG:O	1:C:2621:VAL:HG13	2.18	0.43
1:C:2665:THR:HA	1:C:2666:PRO:HD3	1.86	0.43
1:D:657:THR:HB	1:D:662:LYS:HE3	2.00	0.43
1:D:856:PRO:HG2	1:D:874:ASP:HB2	2.00	0.43
1:D:857:VAL:HG13	1:D:859:PHE:H	1.83	0.43
1:D:2591:ARG:HH12	1:F:2014:SER:N	2.16	0.43
1:E:276:LYS:HB3	1:E:587:TRP:CH2	2.53	0.43
1:E:550:LYS:HD3	1:E:577:GLU:OE2	2.17	0.43
1:E:585:HIS:HD2	1:E:586:SER:H	1.62	0.43
1:E:1163:ASP:HA	1:E:1168:ARG:HA	2.01	0.43
1:E:2088:ARG:C	1:E:2188:ARG:NH1	2.72	0.43
1:E:2462:VAL:HG13	1:E:2835:VAL:HG13	2.00	0.43
1:F:34:LEU:O	1:F:38:LEU:HG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:580:ARG:HD3	1:F:896:ALA:HB3	2.01	0.43
1:F:647:THR:N	2:F:4000:FMN:O3P	2.51	0.43
1:F:1084:THR:CG2	1:F:1274:ALA:HA	2.48	0.43
1:F:1163:ASP:HA	1:F:1168:ARG:HA	2.01	0.43
1:F:1317:GLY:O	1:F:1324:VAL:HG12	2.19	0.43
1:F:1695:LEU:HD12	1:F:1695:LEU:HA	1.71	0.43
1:F:2695:MET:HG3	1:F:2696:TYR:N	2.34	0.43
1:F:2697:HIS:CD2	1:A:2700:LEU:HD22	2.43	0.43
1:A:2580:PHE:HE1	1:A:2603:ARG:HH21	1.66	0.43
1:B:857:VAL:HG13	1:B:859:PHE:H	1.83	0.43
1:B:2471:PRO:HA	1:B:2625:ILE:HA	2.00	0.43
1:C:210:VAL:HG22	1:C:287:PHE:HD1	1.83	0.43
1:C:307:ILE:HG22	1:C:311:TRP:CE2	2.54	0.43
1:C:780:ARG:NH1	1:C:817:GLU:OE2	2.52	0.43
1:C:1285:LYS:HB3	1:C:1286:PRO:HD2	1.99	0.43
1:C:2115:HIS:HA	1:C:2118:LEU:CG	2.49	0.43
1:C:2444:PRO:HB2	1:C:2988:PRO:HB3	2.01	0.43
1:C:2580:PHE:HE1	1:C:2603:ARG:HH21	1.66	0.43
1:C:2891:LYS:HZ2	1:C:2903:GLU:HG2	1.83	0.43
1:D:695:ILE:HG22	1:D:697:GLU:HG3	2.01	0.43
1:D:1117:ALA:HA	1:D:1120:GLU:HB2	2.01	0.43
1:D:1133:VAL:N	1:D:1193:ALA:O	2.48	0.43
1:D:2296:ASN:ND2	1:D:2395:THR:HG21	2.34	0.43
1:D:2735:HIS:O	1:C:2737:VAL:N	2.51	0.43
1:D:2786:ASP:OD2	1:D:2789:MET:HG2	2.19	0.43
1:D:2810:GLY:HA2	1:D:2896:THR:HG22	2.01	0.43
1:E:2444:PRO:HB2	1:E:2988:PRO:HB3	2.01	0.43
1:F:307:ILE:HG22	1:F:311:TRP:CE2	2.54	0.43
1:F:475:LEU:HD23	1:F:475:LEU:HA	1.79	0.43
1:F:664:LEU:HB3	1:F:701:ALA:HB1	1.99	0.43
1:F:874:ASP:OD2	1:F:877:TRP:CD1	2.72	0.43
1:F:1030:ALA:N	1:F:1031:PRO:CD	2.81	0.43
1:F:1117:ALA:HA	1:F:1120:GLU:HB2	2.01	0.43
1:F:1413:PRO:O	1:C:2328:GLU:OE1	2.36	0.43
1:F:1457:GLU:OE2	1:F:1614:TYR:OH	2.29	0.43
1:A:856:PRO:HG2	1:A:874:ASP:HB2	2.00	0.43
1:B:344:HIS:CD2	1:B:373:ILE:HG13	2.53	0.43
1:B:664:LEU:HB3	1:B:701:ALA:HB1	1.99	0.43
1:B:1317:GLY:O	1:B:1324:VAL:HG12	2.19	0.43
1:B:2088:ARG:C	1:B:2188:ARG:NH1	2.72	0.43
1:B:2096:VAL:CG1	1:B:2097:ALA:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2541:ARG:O	1:B:2621:VAL:HG13	2.18	0.43
1:C:163:LEU:HD13	1:C:181:LEU:HD23	2.00	0.43
1:D:647:THR:N	2:D:4000:FMN:O3P	2.51	0.43
1:D:885:GLU:HG2	1:D:887:ASP:H	1.84	0.43
1:D:2088:ARG:C	1:D:2188:ARG:NH1	2.72	0.43
1:D:2252:VAL:HG22	1:D:2255:ARG:HH21	1.82	0.43
1:D:2706:PRO:O	1:D:2709:ILE:HG12	2.19	0.43
1:D:2710:LEU:O	1:D:2713:VAL:HG22	2.18	0.43
1:D:2903:GLU:OE2	1:D:2995:THR:OG1	2.36	0.43
1:E:42:GLU:HA	1:E:43:PRO:HD3	1.91	0.43
1:E:307:ILE:HG22	1:E:311:TRP:CE2	2.54	0.43
1:E:340:ILE:HD11	1:E:351:ILE:HD13	2.01	0.43
1:E:487:PHE:O	1:E:521:VAL:N	2.51	0.43
1:E:782:ARG:HH11	1:E:857:VAL:HG22	1.83	0.43
1:E:874:ASP:OD2	1:E:877:TRP:CD1	2.72	0.43
1:E:970:ILE:HG23	1:E:992:THR:HG21	2.00	0.43
1:E:2512:TRP:O	1:E:2520:LEU:HD12	2.19	0.43
1:E:2958:ASN:HD22	1:E:2976:TRP:HE1	1.65	0.43
1:F:2115:HIS:HA	1:F:2118:LEU:CG	2.49	0.43
1:F:2706:PRO:O	1:F:2709:ILE:HG12	2.19	0.43
1:A:340:ILE:HD11	1:A:351:ILE:HD13	2.01	0.43
1:A:438:THR:HA	1:A:880:HIS:CE1	2.51	0.43
1:A:780:ARG:NH1	1:A:817:GLU:OE2	2.52	0.43
1:A:2244:ARG:HG2	1:A:2245:VAL:N	2.34	0.43
1:A:2297:ARG:HH12	1:A:2391:LYS:NZ	2.17	0.43
1:A:3044:ALA:HB1	1:A:3050:PRO:HB3	2.00	0.43
1:B:1537:LEU:HD13	1:B:1541:GLN:HB2	2.00	0.43
1:B:2252:VAL:HG22	1:B:2255:ARG:HH21	1.82	0.43
1:B:2297:ARG:HH12	1:B:2391:LYS:NZ	2.17	0.43
1:B:2695:MET:HG3	1:B:2696:TYR:N	2.34	0.43
1:B:2810:GLY:HA2	1:B:2896:THR:HG22	2.01	0.43
1:B:2846:ALA:O	1:B:2859:GLY:HA3	2.19	0.43
1:C:78:GLU:HB2	1:C:176:VAL:HG21	2.01	0.43
1:C:393:VAL:O	1:C:395:GLU:N	2.52	0.43
1:C:709:LEU:HD21	1:C:872:ARG:NE	2.34	0.43
1:C:2786:ASP:OD2	1:C:2789:MET:HG2	2.19	0.43
1:C:2810:GLY:HA2	1:C:2896:THR:HG22	2.01	0.43
1:D:1695:LEU:HD12	1:D:1695:LEU:HA	1.71	0.42
1:D:2014:SER:N	1:E:2591:ARG:HH12	2.16	0.42
1:D:2297:ARG:HH22	1:D:2391:LYS:HZ3	1.67	0.42
1:D:2299:MET:H	1:D:2299:MET:HG2	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2444:PRO:HB2	1:D:2988:PRO:HB3	2.01	0.42
1:D:2541:ARG:O	1:D:2621:VAL:HG13	2.18	0.42
1:E:53:SER:HA	1:E:359:ILE:HG13	2.01	0.42
1:E:544:ILE:O	1:E:546:HIS:N	2.40	0.42
1:E:780:ARG:NH1	1:E:817:GLU:OE2	2.52	0.42
1:E:2014:SER:N	1:F:2591:ARG:HH12	2.16	0.42
1:E:2228:LEU:HD23	1:E:2228:LEU:HA	1.86	0.42
1:E:2296:ASN:ND2	1:E:2395:THR:HG21	2.34	0.42
1:E:2557:LEU:HB3	1:E:2613:ARG:HB2	2.01	0.42
1:E:2558:LEU:HD11	1:B:2610:ARG:HD2	2.01	0.42
1:E:2610:ARG:HD2	1:B:2558:LEU:HD11	2.01	0.42
1:E:2891:LYS:HZ2	1:E:2903:GLU:HG2	1.83	0.42
1:E:3044:ALA:HB1	1:E:3050:PRO:HB3	2.00	0.42
1:F:211:THR:HB	1:F:286:VAL:HB	2.01	0.42
1:F:436:THR:OG1	1:F:437:PRO:HD3	2.19	0.42
1:F:1412:HIS:HD2	1:F:1413:PRO:CD	2.31	0.42
1:F:1504:ARG:HA	1:F:1540:SER:O	2.19	0.42
1:F:1582:HIS:HA	1:F:1674:ALA:O	2.18	0.42
1:F:1733:ASN:H	1:F:1737:ASP:HB2	1.83	0.42
1:F:2471:PRO:HA	1:F:2625:ILE:HA	2.00	0.42
1:F:2889:ILE:HB	1:F:2924:ILE:HG12	2.01	0.42
1:A:203:ASP:OD2	1:C:1087:PHE:CZ	2.72	0.42
1:A:276:LYS:HB3	1:A:587:TRP:CH2	2.53	0.42
1:A:544:ILE:C	1:A:546:HIS:H	2.22	0.42
1:A:1087:PHE:CZ	1:B:203:ASP:OD2	2.72	0.42
1:A:2096:VAL:CG2	1:A:2097:ALA:N	2.82	0.42
1:A:2334:HIS:CD2	1:A:2391:LYS:HG3	2.50	0.42
1:A:2452:ASP:CG	1:A:2453:LEU:N	2.73	0.42
1:A:2541:ARG:O	1:A:2621:VAL:HG13	2.18	0.42
1:A:2836:LEU:HD23	1:A:2836:LEU:HA	1.87	0.42
1:A:2911:ALA:O	1:A:2916:ARG:HB2	2.19	0.42
1:B:1662:ARG:HG3	1:B:1663:LYS:N	2.34	0.42
1:B:2462:VAL:HG13	1:B:2835:VAL:HG13	2.00	0.42
1:C:1705:VAL:O	1:C:1735:GLU:HB2	2.18	0.42
1:C:2092:THR:O	1:C:2092:THR:CG2	2.64	0.42
1:C:2889:ILE:HB	1:C:2924:ILE:HG12	2.01	0.42
1:D:780:ARG:NH1	1:D:817:GLU:OE2	2.52	0.42
1:D:1662:ARG:HG3	1:D:1663:LYS:N	2.34	0.42
1:D:2737:VAL:N	1:C:2735:HIS:O	2.51	0.42
1:D:2911:ALA:O	1:D:2916:ARG:HB2	2.19	0.42
1:E:211:THR:HB	1:E:286:VAL:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1662:ARG:HG3	1:E:1663:LYS:N	2.34	0.42
1:E:2530:TYR:O	1:E:2533:ALA:N	2.52	0.42
1:E:2695:MET:HG3	1:E:2696:TYR:N	2.34	0.42
1:E:2706:PRO:O	1:E:2709:ILE:HG12	2.19	0.42
1:F:341:THR:HG23	1:F:344:HIS:ND1	2.34	0.42
1:F:1537:LEU:HD13	1:F:1541:GLN:HB2	2.00	0.42
1:F:2557:LEU:HB3	1:F:2613:ARG:HB2	2.01	0.42
1:A:88:SER:HB3	1:A:314:THR:OG1	2.18	0.42
1:A:211:THR:HB	1:A:286:VAL:HB	2.01	0.42
1:A:544:ILE:O	1:A:546:HIS:N	2.41	0.42
1:A:1163:ASP:HA	1:A:1168:ARG:HA	2.01	0.42
1:A:1705:VAL:O	1:A:1735:GLU:HB2	2.18	0.42
1:A:2444:PRO:HB2	1:A:2988:PRO:HB3	2.01	0.42
1:A:2512:TRP:O	1:A:2520:LEU:HD12	2.19	0.42
1:A:2530:TYR:O	1:A:2533:ALA:N	2.52	0.42
1:A:2808:ARG:HH21	1:A:2901:PRO:HD3	1.85	0.42
1:B:580:ARG:HD3	1:B:896:ALA:HB3	2.01	0.42
1:B:780:ARG:NH1	1:B:817:GLU:OE2	2.52	0.42
1:B:856:PRO:HG2	1:B:874:ASP:HB2	2.00	0.42
1:B:970:ILE:HG23	1:B:992:THR:HG21	2.00	0.42
1:B:1163:ASP:HA	1:B:1168:ARG:HA	2.01	0.42
1:C:45:ALA:O	1:C:351:ILE:HA	2.19	0.42
1:C:211:THR:HB	1:C:286:VAL:HB	2.01	0.42
1:C:954:PRO:O	1:C:965:ASN:N	2.52	0.42
1:C:1672:GLN:HE21	1:C:1672:GLN:HB3	1.58	0.42
1:C:2428:PRO:O	1:C:2428:PRO:CG	2.67	0.42
1:C:2452:ASP:CG	1:C:2453:LEU:N	2.73	0.42
1:D:1093:PRO:HB3	1:D:1277:HIS:CE1	2.52	0.42
1:D:2180:LYS:HZ1	1:D:2962:ASP:HB3	1.83	0.42
1:D:2297:ARG:HH12	1:D:2391:LYS:NZ	2.17	0.42
1:D:2889:ILE:HB	1:D:2924:ILE:HG12	2.01	0.42
1:E:45:ALA:O	1:E:351:ILE:HA	2.20	0.42
1:E:365:ALA:O	1:E:369:ARG:N	2.42	0.42
1:E:511:ARG:CB	1:E:540:ASN:HB2	2.46	0.42
1:E:1275:ALA:O	1:E:1279:VAL:HG23	2.20	0.42
1:E:2452:ASP:CG	1:E:2453:LEU:N	2.73	0.42
1:E:2674:HIS:HA	1:E:2675:PRO:HD2	1.88	0.42
1:F:1030:ALA:N	1:F:1031:PRO:HD3	2.34	0.42
1:F:1503:ILE:HB	1:F:1542:TYR:HB2	2.00	0.42
1:A:1093:PRO:HB3	1:A:1277:HIS:CE1	2.52	0.42
1:B:107:LEU:HD13	1:B:113:VAL:HB	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:613:GLY:HA2	2:B:4000:FMN:O5'	2.19	0.42
1:B:885:GLU:HG2	1:B:887:ASP:H	1.84	0.42
1:B:1021:LEU:HB3	1:B:1034:GLU:HG2	2.01	0.42
1:B:1084:THR:CG2	1:B:1274:ALA:HA	2.48	0.42
1:C:856:PRO:HG2	1:C:874:ASP:HB2	2.00	0.42
1:C:2706:PRO:O	1:C:2709:ILE:HG12	2.19	0.42
1:D:1703:ILE:HG22	1:D:1704:GLY:H	1.85	0.42
1:E:315:VAL:C	1:E:317:LEU:H	2.22	0.42
1:E:488:ASN:OD1	1:E:523:SER:OG	2.34	0.42
1:E:602:ARG:NH2	1:E:641:ASP:OD1	2.28	0.42
1:E:1504:ARG:HA	1:E:1540:SER:O	2.19	0.42
1:E:2297:ARG:HH12	1:E:2391:LYS:NZ	2.17	0.42
1:E:2468:GLU:OE2	1:E:2478:ARG:NH2	2.48	0.42
1:E:2903:GLU:OE2	1:E:2995:THR:OG1	2.36	0.42
1:F:53:SER:HA	1:F:359:ILE:HG13	2.01	0.42
1:F:479:LEU:HD21	1:F:485:ILE:HD11	2.02	0.42
1:F:780:ARG:NH1	1:F:817:GLU:OE2	2.52	0.42
1:F:958:TRP:CZ3	1:F:1130:LEU:HB2	2.54	0.42
1:F:1533:VAL:N	1:F:1543:ALA:O	2.52	0.42
1:F:2808:ARG:HH21	1:F:2901:PRO:HD3	1.85	0.42
1:F:2911:ALA:O	1:F:2916:ARG:HB2	2.20	0.42
1:A:315:VAL:C	1:A:317:LEU:H	2.22	0.42
1:A:336:TRP:HE3	1:A:339:GLU:OE2	2.03	0.42
1:A:511:ARG:CB	1:A:540:ASN:HB2	2.46	0.42
1:A:1280:THR:O	1:A:1288:PRO:HB3	2.20	0.42
1:A:1672:GLN:HE21	1:A:1672:GLN:HB3	1.58	0.42
1:A:2428:PRO:O	1:A:2428:PRO:CG	2.68	0.42
1:A:2557:LEU:HB3	1:A:2613:ARG:HB2	2.01	0.42
1:A:2810:GLY:HA2	1:A:2896:THR:HG22	2.01	0.42
1:A:2957:PRO:HB3	1:A:2980:PRO:N	2.35	0.42
1:B:53:SER:HA	1:B:359:ILE:HG13	2.01	0.42
1:B:1087:PHE:CZ	1:C:203:ASP:OD2	2.72	0.42
1:B:1634:ARG:NH1	1:B:1639:ALA:H	2.11	0.42
1:B:2468:GLU:OE2	1:B:2478:ARG:NH2	2.48	0.42
1:B:2557:LEU:HB3	1:B:2613:ARG:HB2	2.01	0.42
1:C:70:SER:HG	1:C:142:ARG:NH2	2.16	0.42
1:C:276:LYS:HB3	1:C:587:TRP:CH2	2.53	0.42
1:C:657:THR:HB	1:C:662:LYS:HE3	2.00	0.42
1:C:2141:VAL:HG22	1:C:2238:PHE:HD2	1.85	0.42
1:C:2911:ALA:O	1:C:2916:ARG:HB2	2.19	0.42
1:C:2957:PRO:HB3	1:C:2980:PRO:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:436:THR:OG1	1:D:437:PRO:HD3	2.19	0.42
1:D:613:GLY:HA2	2:D:4000:FMN:O5'	2.19	0.42
1:D:668:THR:HG23	1:D:683:GLY:HA3	2.02	0.42
1:D:1106:CYS:SG	1:D:1174:VAL:HG11	2.60	0.42
1:D:1247:ASN:HA	1:D:1248:PRO:HD3	1.83	0.42
1:D:1280:THR:O	1:D:1288:PRO:HB3	2.20	0.42
1:D:2244:ARG:HG2	1:D:2245:VAL:N	2.34	0.42
1:D:2294:SER:HB3	1:D:2310:LYS:HB2	2.02	0.42
1:D:2892:HIS:HA	1:D:2942:GLN:HE22	1.85	0.42
1:E:1457:GLU:OE2	1:E:1614:TYR:OH	2.30	0.42
1:E:1656:LYS:N	1:E:1657:PRO:HD2	2.35	0.42
1:F:315:VAL:C	1:F:317:LEU:H	2.22	0.42
1:F:559:SER:O	1:F:563:ILE:HG12	2.20	0.42
1:F:613:GLY:HA2	2:F:4000:FMN:O5'	2.19	0.42
1:F:709:LEU:HD21	1:F:872:ARG:NE	2.34	0.42
1:F:2428:PRO:O	1:F:2428:PRO:CG	2.67	0.42
1:F:2558:LEU:HD11	1:A:2610:ARG:HD2	2.01	0.42
1:A:50:GLY:O	1:A:53:SER:OG	2.36	0.42
1:A:488:ASN:OD1	1:A:523:SER:OG	2.34	0.42
1:A:709:LEU:HD21	1:A:872:ARG:NE	2.34	0.42
1:A:970:ILE:HG23	1:A:992:THR:HG21	2.00	0.42
1:A:1504:ARG:HA	1:A:1540:SER:O	2.19	0.42
1:A:2695:MET:HG3	1:A:2696:TYR:N	2.34	0.42
1:A:2831:MET:HE2	1:A:2831:MET:HB3	1.88	0.42
1:B:211:THR:HB	1:B:286:VAL:HB	2.01	0.42
1:B:479:LEU:HD21	1:B:485:ILE:HD11	2.02	0.42
1:B:709:LEU:HD21	1:B:872:ARG:NE	2.34	0.42
1:B:1275:ALA:HB2	1:B:1311:PHE:CE2	2.55	0.42
1:B:2449:GLU:O	1:B:2449:GLU:CG	2.68	0.42
1:B:2706:PRO:O	1:B:2709:ILE:HG12	2.19	0.42
1:B:2786:ASP:OD2	1:B:2789:MET:HG2	2.19	0.42
1:B:2891:LYS:NZ	1:B:2903:GLU:HB3	2.35	0.42
1:C:613:GLY:HA2	2:C:4000:FMN:O5'	2.19	0.42
1:C:1656:LYS:N	1:C:1657:PRO:HD2	2.35	0.42
1:C:1662:ARG:HG3	1:C:1663:LYS:N	2.34	0.42
1:C:2296:ASN:ND2	1:C:2395:THR:HG21	2.34	0.42
1:C:2297:ARG:HH12	1:C:2391:LYS:NZ	2.17	0.42
1:C:2855:ALA:HA	1:C:2856:PRO:HD3	1.93	0.42
1:D:2141:VAL:HG22	1:D:2238:PHE:HD2	1.84	0.42
1:D:2695:MET:HG3	1:D:2696:TYR:N	2.34	0.42
1:D:2753:LYS:HA	1:D:2753:LYS:HD3	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2891:LYS:NZ	1:D:2903:GLU:HB3	2.35	0.42
1:E:658:SER:HB2	1:E:661:VAL:HG23	2.01	0.42
1:E:1275:ALA:HB2	1:E:1311:PHE:CE2	2.55	0.42
1:E:1684:ASP:HA	1:E:1687:PHE:HD2	1.82	0.42
1:E:2805:ASP:OD2	1:E:2807:ARG:HB2	2.20	0.42
1:E:2889:ILE:HG13	1:E:2922:LEU:HD13	2.02	0.42
1:F:488:ASN:OD1	1:F:523:SER:OG	2.34	0.42
1:F:2244:ARG:HG2	1:F:2245:VAL:N	2.35	0.42
1:F:2452:ASP:CG	1:F:2453:LEU:N	2.73	0.42
1:F:2957:PRO:HB3	1:F:2980:PRO:N	2.34	0.42
1:A:559:SER:O	1:A:563:ILE:HG12	2.20	0.42
1:A:970:ILE:O	1:A:974:THR:HG22	2.20	0.42
1:A:1008:VAL:CG1	1:A:1008:VAL:O	2.68	0.42
1:A:1457:GLU:OE2	1:A:1614:TYR:OH	2.30	0.42
1:A:2055:VAL:HG22	1:A:2194:TRP:CD1	2.55	0.42
1:A:2889:ILE:HG13	1:A:2922:LEU:HD13	2.02	0.42
1:A:2891:LYS:HZ2	1:A:2903:GLU:HG2	1.83	0.42
1:B:45:ALA:O	1:B:351:ILE:HA	2.20	0.42
1:B:336:TRP:HE3	1:B:339:GLU:OE2	2.03	0.42
1:B:1120:GLU:HA	1:B:1125:VAL:CG2	2.50	0.42
1:B:2244:ARG:HG2	1:B:2245:VAL:N	2.34	0.42
1:B:2800:PHE:CZ	1:B:2812:LEU:HD13	2.55	0.42
1:C:479:LEU:HD21	1:C:485:ILE:HD11	2.02	0.42
1:C:970:ILE:O	1:C:974:THR:HG22	2.20	0.42
1:C:1021:LEU:HB3	1:C:1034:GLU:HG2	2.01	0.42
1:C:1280:THR:O	1:C:1288:PRO:HB3	2.20	0.42
1:C:2244:ARG:HG2	1:C:2245:VAL:N	2.34	0.42
1:C:2846:ALA:O	1:C:2859:GLY:HA3	2.19	0.42
1:C:2892:HIS:HA	1:C:2942:GLN:HE22	1.85	0.42
1:D:709:LEU:HD21	1:D:872:ARG:NE	2.34	0.42
1:D:1275:ALA:HB2	1:D:1311:PHE:CE2	2.55	0.42
1:D:1352:PHE:HA	1:D:1353:PRO:HD3	1.72	0.42
1:D:2286:ARG:HD3	1:D:2331:SER:OG	2.20	0.42
1:D:2452:ASP:CG	1:D:2453:LEU:N	2.73	0.42
1:D:2512:TRP:O	1:D:2520:LEU:HD12	2.19	0.42
1:D:2591:ARG:HH12	1:F:2014:SER:H	1.65	0.42
1:D:2957:PRO:HB3	1:D:2980:PRO:N	2.34	0.42
1:E:210:VAL:HG22	1:E:287:PHE:HD1	1.83	0.42
1:E:613:GLY:HA2	2:E:4000:FMN:O5'	2.19	0.42
1:E:885:GLU:HG2	1:E:887:ASP:H	1.84	0.42
1:E:2032:VAL:HG11	1:A:2032:VAL:HG11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:782:ARG:HH11	1:F:857:VAL:HG22	1.83	0.42
1:F:1106:CYS:SG	1:F:1174:VAL:HG11	2.60	0.42
1:F:2300:PHE:HZ	1:F:2398:LEU:HB3	1.85	0.42
1:F:2610:ARG:HD2	1:A:2558:LEU:HD11	2.02	0.42
1:F:2715:PRO:HD2	1:A:2737:VAL:HG11	2.02	0.42
1:F:2786:ASP:OD2	1:F:2789:MET:HG2	2.19	0.42
1:A:44:TYR:O	1:A:153:VAL:N	2.44	0.42
1:A:53:SER:HA	1:A:359:ILE:HG13	2.01	0.42
1:A:307:ILE:HG22	1:A:311:TRP:CE2	2.54	0.42
1:A:585:HIS:HD2	1:A:586:SER:H	1.62	0.42
1:A:1275:ALA:O	1:A:1279:VAL:HG23	2.20	0.42
1:A:2805:ASP:OD2	1:A:2807:ARG:HB2	2.20	0.42
1:A:2891:LYS:NZ	1:A:2903:GLU:HB3	2.35	0.42
1:B:488:ASN:OD1	1:B:523:SER:OG	2.34	0.42
1:B:1280:THR:O	1:B:1288:PRO:HB3	2.20	0.42
1:B:1656:LYS:N	1:B:1657:PRO:HD2	2.35	0.42
1:B:2428:PRO:O	1:B:2428:PRO:CG	2.67	0.42
1:B:2805:ASP:OD2	1:B:2807:ARG:HB2	2.20	0.42
1:B:2957:PRO:HB3	1:B:2980:PRO:N	2.35	0.42
1:C:436:THR:OG1	1:C:437:PRO:HD3	2.19	0.42
1:C:1317:GLY:O	1:C:1324:VAL:HG12	2.19	0.42
1:C:2055:VAL:HG22	1:C:2194:TRP:CD1	2.55	0.42
1:C:2354:SER:O	1:C:2358:GLU:HG3	2.20	0.42
1:C:2930:LEU:HD23	1:C:2930:LEU:HA	1.93	0.42
1:D:816:LEU:HA	1:D:816:LEU:HD23	1.83	0.42
1:D:957:LEU:O	1:D:1034:GLU:HB2	2.20	0.42
1:D:1021:LEU:HB3	1:D:1034:GLU:HG2	2.01	0.42
1:D:1120:GLU:HA	1:D:1125:VAL:CG2	2.50	0.42
1:D:1228:VAL:HB	1:D:1311:PHE:HB2	2.02	0.42
1:D:1656:LYS:N	1:D:1657:PRO:HD2	2.35	0.42
1:D:1660:LEU:HD23	1:D:1660:LEU:HA	1.86	0.42
1:D:2428:PRO:O	1:D:2428:PRO:CG	2.68	0.42
1:D:2468:GLU:OE2	1:D:2478:ARG:NH2	2.48	0.42
1:D:2557:LEU:HB3	1:D:2613:ARG:HB2	2.01	0.42
1:E:957:LEU:O	1:E:1034:GLU:HB2	2.20	0.42
1:E:1280:THR:O	1:E:1288:PRO:HB3	2.20	0.42
1:E:2141:VAL:HG22	1:E:2238:PHE:HD2	1.85	0.42
1:E:2701:LEU:HD23	1:B:2558:LEU:HB2	2.02	0.42
1:E:2786:ASP:OD2	1:E:2789:MET:HG2	2.19	0.42
1:E:2810:GLY:HA2	1:E:2896:THR:HG22	2.01	0.42
1:E:2911:ALA:O	1:E:2916:ARG:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2957:PRO:HB3	1:E:2980:PRO:N	2.35	0.42
1:F:107:LEU:HD13	1:F:113:VAL:HB	2.02	0.42
1:F:336:TRP:HE3	1:F:339:GLU:OE2	2.03	0.42
1:F:885:GLU:HG2	1:F:887:ASP:H	1.84	0.42
1:F:970:ILE:O	1:F:974:THR:HG22	2.20	0.42
1:F:1275:ALA:HB2	1:F:1311:PHE:CE2	2.55	0.42
1:F:1612:GLY:N	1:F:1623:PHE:O	2.48	0.42
1:F:2088:ARG:C	1:F:2188:ARG:NH1	2.72	0.42
1:F:2452:ASP:CG	1:F:2453:LEU:H	2.23	0.42
1:F:2846:ALA:O	1:F:2859:GLY:HA3	2.20	0.42
1:A:668:THR:HG23	1:A:683:GLY:HA3	2.02	0.42
1:A:1021:LEU:HB3	1:A:1034:GLU:HG2	2.01	0.42
1:A:2563:LEU:HD21	1:A:2567:PHE:HB2	2.02	0.42
1:B:1275:ALA:O	1:B:1279:VAL:HG23	2.20	0.42
1:B:2014:SER:N	1:C:2591:ARG:HH12	2.16	0.42
1:B:2294:SER:HB3	1:B:2310:LYS:HB2	2.02	0.42
1:B:2452:ASP:CG	1:B:2453:LEU:N	2.73	0.42
1:B:2889:ILE:HG13	1:B:2922:LEU:HD13	2.02	0.42
1:C:365:ALA:O	1:C:369:ARG:N	2.42	0.42
1:C:885:GLU:HG2	1:C:887:ASP:H	1.84	0.42
1:C:931:VAL:HG13	1:C:934:LEU:N	2.21	0.42
1:C:1275:ALA:HB2	1:C:1311:PHE:CE2	2.55	0.42
1:C:1380:ALA:HB1	1:C:1474:LEU:CD1	2.50	0.42
1:C:1504:ARG:HA	1:C:1505:PRO:HD2	1.93	0.42
1:C:1733:ASN:H	1:C:1737:ASP:HB2	1.83	0.42
1:C:2503:LYS:HG3	1:C:2513:TYR:HB2	2.02	0.42
1:C:2557:LEU:HB3	1:C:2613:ARG:HB2	2.01	0.42
1:D:479:LEU:HD21	1:D:485:ILE:HD11	2.02	0.42
1:D:970:ILE:O	1:D:974:THR:HG22	2.20	0.42
1:D:2055:VAL:HG22	1:D:2194:TRP:CD1	2.55	0.42
1:D:2354:SER:O	1:D:2358:GLU:HG3	2.20	0.42
1:D:2805:ASP:OD2	1:D:2807:ARG:HB2	2.20	0.42
1:E:341:THR:HG23	1:E:344:HIS:ND1	2.34	0.42
1:E:559:SER:O	1:E:563:ILE:HG12	2.20	0.42
1:E:928:ALA:HB1	1:E:931:VAL:CB	2.50	0.42
1:E:1087:PHE:CZ	1:F:203:ASP:OD2	2.72	0.42
1:E:1117:ALA:HA	1:E:1120:GLU:HB2	2.01	0.42
1:E:2096:VAL:CG1	1:E:2097:ALA:N	2.82	0.42
1:E:2428:PRO:O	1:E:2428:PRO:CG	2.67	0.42
1:E:2558:LEU:HB2	1:B:2701:LEU:HD23	2.02	0.42
1:F:78:GLU:HB2	1:F:176:VAL:HG21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:393:VAL:O	1:F:395:GLU:N	2.53	0.42
1:F:1280:THR:O	1:F:1288:PRO:HB3	2.20	0.42
1:F:1380:ALA:HB1	1:F:1474:LEU:CD1	2.50	0.42
1:F:2444:PRO:HB2	1:F:2988:PRO:HB3	2.01	0.42
1:F:2805:ASP:OD2	1:F:2807:ARG:HB2	2.20	0.42
1:F:2891:LYS:NZ	1:F:2903:GLU:HB3	2.35	0.42
1:A:45:ALA:O	1:A:351:ILE:HA	2.20	0.42
1:A:341:THR:HG23	1:A:344:HIS:ND1	2.34	0.42
1:A:436:THR:OG1	1:A:437:PRO:HD3	2.19	0.42
1:A:613:GLY:HA2	2:A:4000:FMN:O5'	2.19	0.42
1:A:1381:ASP:OD1	1:A:1391:SER:OG	2.22	0.42
1:A:2300:PHE:HZ	1:A:2398:LEU:HB3	1.85	0.42
1:A:2620:THR:OG1	1:A:2791:ARG:NH2	2.53	0.42
1:B:340:ILE:HD11	1:B:351:ILE:HD13	2.01	0.42
1:B:2452:ASP:CG	1:B:2453:LEU:H	2.24	0.42
1:B:2584:ASP:O	1:B:2586:GLU:N	2.53	0.42
1:B:2891:LYS:HZ2	1:B:2903:GLU:HG2	1.84	0.42
1:B:2911:ALA:O	1:B:2916:ARG:HB2	2.19	0.42
1:C:53:SER:HA	1:C:359:ILE:HG13	2.01	0.42
1:C:266:ALA:O	1:C:270:GLU:HG3	2.20	0.42
1:C:2294:SER:HB3	1:C:2310:LYS:HB2	2.02	0.42
1:C:2449:GLU:O	1:C:2449:GLU:CG	2.68	0.42
1:D:1380:ALA:HB1	1:D:1474:LEU:CD1	2.50	0.42
1:D:1504:ARG:HA	1:D:1505:PRO:HD2	1.93	0.42
1:D:2503:LYS:HG3	1:D:2513:TYR:HB2	2.02	0.42
1:E:479:LEU:HD21	1:E:485:ILE:HD11	2.02	0.42
1:E:668:THR:HG23	1:E:683:GLY:HA3	2.02	0.42
1:E:1008:VAL:CG1	1:E:1008:VAL:O	2.68	0.42
1:E:1021:LEU:HB3	1:E:1034:GLU:HG2	2.01	0.42
1:E:2244:ARG:HG2	1:E:2245:VAL:N	2.34	0.42
1:F:1228:VAL:HB	1:F:1311:PHE:HB2	2.02	0.42
1:F:1394:HIS:ND1	1:C:2324:LYS:NZ	2.68	0.42
1:F:2055:VAL:HG22	1:F:2194:TRP:CD1	2.55	0.42
1:F:2296:ASN:ND2	1:F:2395:THR:HG21	2.34	0.42
1:F:2558:LEU:HB2	1:A:2701:LEU:HD23	2.02	0.42
1:F:2889:ILE:HG13	1:F:2922:LEU:HD13	2.02	0.42
1:A:1106:CYS:SG	1:A:1174:VAL:HG11	2.60	0.42
1:A:1317:GLY:O	1:A:1324:VAL:HG12	2.19	0.42
1:A:1703:ILE:HG22	1:A:1704:GLY:H	1.85	0.42
1:B:393:VAL:O	1:B:395:GLU:N	2.52	0.42
1:B:669:LYS:O	1:B:682:ASN:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1228:VAL:HB	1:B:1311:PHE:HB2	2.02	0.42
1:B:1380:ALA:HB1	1:B:1474:LEU:CD1	2.50	0.42
1:B:1611:ILE:HG23	1:B:1624:THR:HA	2.02	0.42
1:B:2354:SER:O	1:B:2358:GLU:HG3	2.20	0.42
1:C:2800:PHE:CZ	1:C:2812:LEU:HD13	2.55	0.42
1:D:1611:ILE:HG23	1:D:1624:THR:HA	2.02	0.41
1:D:2800:PHE:CZ	1:D:2812:LEU:HD13	2.55	0.41
1:D:2846:ALA:O	1:D:2859:GLY:HA3	2.20	0.41
1:E:1013:THR:CG2	1:E:1014:TRP:N	2.58	0.41
1:E:1120:GLU:HA	1:E:1125:VAL:CG2	2.50	0.41
1:E:1703:ILE:HG22	1:E:1704:GLY:H	1.85	0.41
1:E:2354:SER:O	1:E:2358:GLU:HG3	2.20	0.41
1:E:2452:ASP:CG	1:E:2453:LEU:H	2.24	0.41
1:E:2563:LEU:HD21	1:E:2567:PHE:HB2	2.02	0.41
1:E:2610:ARG:NH1	1:E:2700:LEU:HD11	2.25	0.41
1:E:2620:THR:OG1	1:E:2791:ARG:NH2	2.53	0.41
1:F:266:ALA:O	1:F:270:GLU:HG3	2.20	0.41
1:F:1095:LEU:HD23	1:F:1098:VAL:HA	2.02	0.41
1:F:1500:LEU:HD23	1:F:1574:VAL:HG21	2.02	0.41
1:A:756:LEU:HD13	1:A:859:PHE:CD2	2.55	0.41
1:A:885:GLU:HG2	1:A:887:ASP:H	1.84	0.41
1:A:1117:ALA:HA	1:A:1120:GLU:HB2	2.01	0.41
1:A:1662:ARG:HG3	1:A:1663:LYS:N	2.34	0.41
1:A:1687:PHE:CE1	1:A:1723:GLU:HG2	2.55	0.41
1:A:2846:ALA:O	1:A:2859:GLY:HA3	2.20	0.41
1:B:50:GLY:O	1:B:53:SER:OG	2.36	0.41
1:B:756:LEU:HD13	1:B:859:PHE:CD2	2.55	0.41
1:B:1106:CYS:SG	1:B:1174:VAL:HG11	2.60	0.41
1:B:1687:PHE:CE1	1:B:1723:GLU:HG2	2.55	0.41
1:B:2180:LYS:HZ1	1:B:2962:ASP:HB3	1.83	0.41
1:B:2286:ARG:HD3	1:B:2331:SER:OG	2.20	0.41
1:B:3065:PRO:O	1:B:3069:GLN:N	2.42	0.41
1:C:107:LEU:HD13	1:C:113:VAL:HB	2.01	0.41
1:C:160:GLN:HA	1:C:329:ILE:HD13	2.02	0.41
1:C:668:THR:HG23	1:C:683:GLY:HA3	2.02	0.41
1:C:1228:VAL:HB	1:C:1311:PHE:HB2	2.02	0.41
1:C:1703:ILE:HG22	1:C:1704:GLY:H	1.85	0.41
1:D:417:LEU:HD21	1:D:625:LEU:HD21	2.02	0.41
1:D:1070:VAL:N	1:D:1152:PHE:O	2.52	0.41
1:D:2449:GLU:O	1:D:2449:GLU:CG	2.68	0.41
1:D:2452:ASP:CG	1:D:2453:LEU:H	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2700:LEU:HD22	1:C:2697:HIS:CD2	2.43	0.41
1:E:1228:VAL:HB	1:E:1311:PHE:HB2	2.02	0.41
1:E:1460:ALA:O	1:E:1464:VAL:HG22	2.20	0.41
1:E:1687:PHE:CE1	1:E:1723:GLU:HG2	2.55	0.41
1:E:2055:VAL:HG22	1:E:2194:TRP:CD1	2.55	0.41
1:E:2889:ILE:HB	1:E:2924:ILE:HG12	2.01	0.41
1:F:340:ILE:HD11	1:F:351:ILE:HD13	2.01	0.41
1:F:928:ALA:HB1	1:F:931:VAL:CB	2.50	0.41
1:F:2800:PHE:CZ	1:F:2812:LEU:HD13	2.55	0.41
1:F:2989:LEU:HD12	1:F:2989:LEU:HA	1.77	0.41
1:A:393:VAL:O	1:A:395:GLU:N	2.52	0.41
1:A:1084:THR:CG2	1:A:1274:ALA:HA	2.49	0.41
1:A:1611:ILE:HG23	1:A:1624:THR:HA	2.02	0.41
1:A:1656:LYS:N	1:A:1657:PRO:HD2	2.35	0.41
1:A:2800:PHE:CE1	1:A:2812:LEU:HD22	2.50	0.41
1:B:160:GLN:HA	1:B:329:ILE:HD13	2.02	0.41
1:B:795:HIS:NE2	1:B:797:GLN:HB2	2.35	0.41
1:B:1117:ALA:HA	1:B:1120:GLU:HB2	2.01	0.41
1:B:1551:LEU:HD13	1:B:1551:LEU:HA	1.80	0.41
1:B:1703:ILE:HG22	1:B:1704:GLY:H	1.85	0.41
1:B:1706:LYS:HA	1:B:1735:GLU:HG3	2.03	0.41
1:B:2961:LEU:HD22	1:B:2976:TRP:HD1	1.85	0.41
1:C:2300:PHE:HZ	1:C:2398:LEU:HB3	1.85	0.41
1:C:2620:THR:OG1	1:C:2791:ARG:NH2	2.53	0.41
1:D:1087:PHE:CZ	1:E:203:ASP:OD2	2.72	0.41
1:D:1095:LEU:HD23	1:D:1098:VAL:HA	2.02	0.41
1:D:1275:ALA:O	1:D:1279:VAL:HG23	2.20	0.41
1:D:1491:ASP:HB2	1:D:1495:ARG:HB2	2.02	0.41
1:D:2889:ILE:HG13	1:D:2922:LEU:HD13	2.02	0.41
1:D:2919:GLY:O	1:D:2921:PRO:HD3	2.21	0.41
1:E:336:TRP:HE3	1:E:339:GLU:OE2	2.03	0.41
1:E:970:ILE:O	1:E:974:THR:HG22	2.20	0.41
1:E:1611:ILE:HG23	1:E:1624:THR:HA	2.02	0.41
1:E:2013:LEU:HD23	1:E:2013:LEU:HA	1.87	0.41
1:E:2294:SER:HB3	1:E:2310:LYS:HB2	2.02	0.41
1:E:2552:ASP:OD1	1:E:2552:ASP:N	2.43	0.41
1:E:2584:ASP:O	1:E:2586:GLU:N	2.53	0.41
1:E:2737:VAL:HG11	1:B:2715:PRO:HD2	2.02	0.41
1:E:2808:ARG:HH21	1:E:2901:PRO:HD3	1.85	0.41
1:F:50:GLY:O	1:F:53:SER:OG	2.36	0.41
1:F:160:GLN:HA	1:F:329:ILE:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1233:PRO:HB2	1:F:1236:MET:HE2	2.01	0.41
1:F:1656:LYS:N	1:F:1657:PRO:HD2	2.35	0.41
1:F:1672:GLN:HE21	1:F:1672:GLN:HB3	1.58	0.41
1:F:2297:ARG:HH22	1:F:2391:LYS:HZ3	1.67	0.41
1:F:2584:ASP:O	1:F:2586:GLU:N	2.53	0.41
1:F:2620:THR:OG1	1:F:2791:ARG:NH2	2.53	0.41
1:F:2702:GLY:HA3	1:A:2557:LEU:CG	2.45	0.41
1:A:266:ALA:O	1:A:270:GLU:HG3	2.20	0.41
1:A:618:PRO:HB3	1:A:915:PHE:HA	2.03	0.41
1:A:669:LYS:O	1:A:682:ASN:HB3	2.20	0.41
1:A:928:ALA:HB1	1:A:931:VAL:CB	2.50	0.41
1:A:1275:ALA:HB2	1:A:1311:PHE:CE2	2.55	0.41
1:A:2296:ASN:ND2	1:A:2395:THR:HG21	2.34	0.41
1:A:2786:ASP:OD2	1:A:2789:MET:HG2	2.19	0.41
1:A:2961:LEU:HD22	1:A:2976:TRP:HD1	1.85	0.41
1:B:78:GLU:HB2	1:B:176:VAL:HG21	2.01	0.41
1:B:266:ALA:O	1:B:270:GLU:HG3	2.20	0.41
1:B:436:THR:OG1	1:B:437:PRO:HD3	2.19	0.41
1:B:475:LEU:HA	1:B:475:LEU:HD23	1.79	0.41
1:B:1460:ALA:O	1:B:1464:VAL:HG22	2.20	0.41
1:B:1491:ASP:HB2	1:B:1495:ARG:HB2	2.02	0.41
1:B:2141:VAL:HG22	1:B:2238:PHE:HD2	1.85	0.41
1:B:2620:THR:OG1	1:B:2791:ARG:NH2	2.53	0.41
1:B:2892:HIS:HA	1:B:2942:GLN:HE22	1.85	0.41
1:C:544:ILE:O	1:C:546:HIS:N	2.40	0.41
1:C:580:ARG:HD3	1:C:896:ALA:HB3	2.01	0.41
1:C:1008:VAL:CG2	1:C:1008:VAL:O	2.68	0.41
1:C:1070:VAL:N	1:C:1152:PHE:O	2.51	0.41
1:C:1106:CYS:SG	1:C:1174:VAL:HG11	2.60	0.41
1:C:2492:VAL:HG12	1:C:2526:ILE:HG22	2.02	0.41
1:C:2695:MET:HG3	1:C:2696:TYR:N	2.34	0.41
1:C:2805:ASP:OD2	1:C:2807:ARG:HB2	2.20	0.41
1:D:1687:PHE:CE1	1:D:1723:GLU:HG2	2.55	0.41
1:D:2620:THR:OG1	1:D:2791:ARG:NH2	2.53	0.41
1:D:2710:LEU:HD12	1:D:2713:VAL:HG21	2.03	0.41
1:D:2808:ARG:HH21	1:D:2901:PRO:HD3	1.85	0.41
1:E:180:ALA:O	1:E:184:LEU:HG	2.21	0.41
1:E:202:GLY:O	1:E:289:PRO:HD2	2.21	0.41
1:E:793:ARG:HH12	1:E:2523:GLU:CD	2.24	0.41
1:E:795:HIS:NE2	1:E:797:GLN:HB2	2.35	0.41
1:E:931:VAL:HG13	1:E:934:LEU:N	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1462:ALA:HB2	1:E:1468:TYR:CE1	2.56	0.41
1:E:1533:VAL:N	1:E:1543:ALA:O	2.52	0.41
1:E:2300:PHE:HZ	1:E:2398:LEU:HB3	1.85	0.41
1:E:2557:LEU:CG	1:B:2702:GLY:HA3	2.46	0.41
1:F:756:LEU:HD13	1:F:859:PHE:CD2	2.55	0.41
1:F:1038:ALA:N	1:F:1127:GLU:H	2.19	0.41
1:F:1460:ALA:O	1:F:1464:VAL:HG22	2.20	0.41
1:F:1611:ILE:HG23	1:F:1624:THR:HA	2.02	0.41
1:F:1703:ILE:HG22	1:F:1704:GLY:H	1.85	0.41
1:F:2352:ILE:HG21	1:F:2412:ALA:CB	2.51	0.41
1:A:479:LEU:HD21	1:A:485:ILE:HD11	2.02	0.41
1:A:2449:GLU:O	1:A:2449:GLU:CG	2.68	0.41
1:B:957:LEU:O	1:B:1034:GLU:HB2	2.20	0.41
1:B:970:ILE:O	1:B:974:THR:HG22	2.20	0.41
1:C:587:TRP:CZ2	1:C:694:ASP:OD2	2.74	0.41
1:C:1129:LEU:HD12	1:C:1129:LEU:HA	1.92	0.41
1:D:669:LYS:O	1:D:682:ASN:HB3	2.20	0.41
1:D:928:ALA:HB1	1:D:931:VAL:CB	2.50	0.41
1:D:2096:VAL:CG1	1:D:2097:ALA:N	2.82	0.41
1:D:2141:VAL:HG22	1:D:2238:PHE:CD2	2.56	0.41
1:D:2300:PHE:HZ	1:D:2398:LEU:HB3	1.85	0.41
1:D:2530:TYR:O	1:D:2533:ALA:N	2.52	0.41
1:D:2558:LEU:HB2	1:C:2701:LEU:HD23	2.02	0.41
1:D:2584:ASP:O	1:D:2586:GLU:N	2.53	0.41
1:D:2748:GLU:HG2	1:C:2753:LYS:HZ1	1.85	0.41
1:D:2961:LEU:HD22	1:D:2976:TRP:HD1	1.85	0.41
1:E:107:LEU:HD13	1:E:113:VAL:HB	2.02	0.41
1:E:233:LEU:HB3	1:E:251:THR:OG1	2.21	0.41
1:E:369:ARG:HD2	1:E:369:ARG:HA	1.85	0.41
1:E:436:THR:OG1	1:E:437:PRO:HD3	2.19	0.41
1:E:618:PRO:HB3	1:E:915:PHE:HA	2.02	0.41
1:E:709:LEU:HD21	1:E:872:ARG:NE	2.34	0.41
1:E:1106:CYS:SG	1:E:1174:VAL:HG11	2.60	0.41
1:E:1380:ALA:HB1	1:E:1474:LEU:CD1	2.50	0.41
1:E:1412:HIS:CD2	1:E:1413:PRO:HD2	2.49	0.41
1:E:2014:SER:H	1:F:2591:ARG:NH1	2.19	0.41
1:E:2503:LYS:HG3	1:E:2513:TYR:HB2	2.02	0.41
1:F:45:ALA:O	1:F:351:ILE:HA	2.20	0.41
1:F:233:LEU:HB3	1:F:251:THR:OG1	2.21	0.41
1:F:1035:VAL:HB	1:F:1042:MET:HG2	2.03	0.41
1:F:2354:SER:O	1:F:2358:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2449:GLU:O	1:F:2449:GLU:CG	2.68	0.41
1:F:2737:VAL:HG23	1:A:2735:HIS:O	2.21	0.41
1:A:160:GLN:HA	1:A:329:ILE:HD13	2.02	0.41
1:A:1133:VAL:N	1:A:1193:ALA:O	2.48	0.41
1:A:1491:ASP:HB2	1:A:1495:ARG:HB2	2.02	0.41
1:A:2294:SER:HB3	1:A:2310:LYS:HB2	2.02	0.41
1:A:2354:SER:O	1:A:2358:GLU:HG3	2.20	0.41
1:A:2503:LYS:HG3	1:A:2513:TYR:HB2	2.02	0.41
1:B:360:LEU:HA	1:B:363:LEU:HB3	2.03	0.41
1:B:374:GLY:C	1:B:375:ILE:HG13	2.41	0.41
1:B:1660:LEU:HD23	1:B:1660:LEU:HA	1.85	0.41
1:B:2014:SER:H	1:C:2591:ARG:NH1	2.19	0.41
1:B:2483:VAL:HG13	1:B:2954:VAL:HG11	2.03	0.41
1:B:3080:ARG:CG	1:B:3080:ARG:NH1	2.72	0.41
1:C:202:GLY:O	1:C:289:PRO:HD2	2.21	0.41
1:C:417:LEU:HD21	1:C:625:LEU:HD21	2.02	0.41
1:C:928:ALA:HB1	1:C:931:VAL:CB	2.50	0.41
1:C:957:LEU:O	1:C:1034:GLU:HB2	2.20	0.41
1:C:1275:ALA:O	1:C:1279:VAL:HG23	2.20	0.41
1:C:1400:PRO:O	1:C:1415:GLY:HA2	2.21	0.41
1:C:1634:ARG:NH1	1:C:1639:ALA:H	2.11	0.41
1:C:1706:LYS:HA	1:C:1735:GLU:HG3	2.03	0.41
1:C:2452:ASP:CG	1:C:2453:LEU:H	2.24	0.41
1:C:2584:ASP:O	1:C:2586:GLU:N	2.53	0.41
1:D:1237:ARG:HG2	1:D:1237:ARG:HH11	1.86	0.41
1:D:1412:HIS:HD2	1:D:1413:PRO:CD	2.31	0.41
1:D:1706:LYS:HA	1:D:1735:GLU:HG3	2.03	0.41
1:D:2492:VAL:HG12	1:D:2526:ILE:HG22	2.02	0.41
1:D:2558:LEU:HD11	1:C:2610:ARG:HD2	2.01	0.41
1:D:2591:ARG:NH1	1:F:2014:SER:H	2.18	0.41
1:D:2701:LEU:HD23	1:C:2558:LEU:HB2	2.02	0.41
1:D:2735:HIS:O	1:C:2737:VAL:HG23	2.21	0.41
1:E:266:ALA:O	1:E:270:GLU:HG3	2.20	0.41
1:E:393:VAL:O	1:E:395:GLU:N	2.52	0.41
1:E:417:LEU:HD21	1:E:625:LEU:HD21	2.02	0.41
1:E:816:LEU:HD23	1:E:816:LEU:HA	1.83	0.41
1:E:1095:LEU:HD23	1:E:1098:VAL:HA	2.02	0.41
1:E:1491:ASP:HB2	1:E:1495:ARG:HB2	2.02	0.41
1:E:2134:TYR:HB3	1:E:2189:PHE:HD2	1.85	0.41
1:E:2334:HIS:CD2	1:E:2391:LYS:HG3	2.50	0.41
1:E:2846:ALA:O	1:E:2859:GLY:HA3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:587:TRP:CZ2	1:F:694:ASP:OD2	2.74	0.41
1:F:1662:ARG:HG3	1:F:1663:LYS:N	2.34	0.41
1:F:2134:TYR:HB3	1:F:2189:PHE:HD2	1.85	0.41
1:F:2483:VAL:HG13	1:F:2954:VAL:HG11	2.03	0.41
1:F:2919:GLY:O	1:F:2921:PRO:HD3	2.21	0.41
1:A:233:LEU:HB3	1:A:251:THR:OG1	2.21	0.41
1:A:374:GLY:C	1:A:375:ILE:HG13	2.41	0.41
1:A:594:LEU:O	1:A:598:TYR:HB2	2.21	0.41
1:A:1095:LEU:HD23	1:A:1098:VAL:HA	2.03	0.41
1:A:1380:ALA:HB1	1:A:1474:LEU:CD1	2.50	0.41
1:A:2889:ILE:HB	1:A:2924:ILE:HG12	2.01	0.41
1:B:709:LEU:HD11	1:B:872:ARG:CZ	2.51	0.41
1:B:2205:ASP:O	1:B:2209:LEU:HB2	2.21	0.41
1:B:2891:LYS:HB2	1:B:2893:ASP:OD2	2.21	0.41
1:B:2919:GLY:O	1:B:2921:PRO:HD3	2.21	0.41
1:C:358:ASP:OD2	1:C:361:THR:HB	2.21	0.41
1:C:618:PRO:HB3	1:C:915:PHE:HA	2.02	0.41
1:C:795:HIS:NE2	1:C:797:GLN:HB2	2.35	0.41
1:C:1095:LEU:HD23	1:C:1098:VAL:HA	2.03	0.41
1:C:2013:LEU:HD23	1:C:2013:LEU:HA	1.87	0.41
1:C:2710:LEU:HD12	1:C:2713:VAL:HG21	2.03	0.41
1:C:2808:ARG:HH21	1:C:2901:PRO:HD3	1.85	0.41
1:D:559:SER:O	1:D:563:ILE:HG12	2.20	0.41
1:D:756:LEU:HD13	1:D:859:PHE:CD2	2.55	0.41
1:D:1400:PRO:O	1:D:1415:GLY:HA2	2.21	0.41
1:D:1460:ALA:O	1:D:1464:VAL:HG22	2.20	0.41
1:D:2483:VAL:HG13	1:D:2954:VAL:HG11	2.03	0.41
1:D:2563:LEU:HD21	1:D:2567:PHE:HB2	2.02	0.41
1:D:2610:ARG:HD2	1:C:2558:LEU:HD11	2.02	0.41
1:E:2449:GLU:O	1:E:2449:GLU:CG	2.68	0.41
1:F:436:THR:HG22	1:F:460:GLY:HA3	2.03	0.41
1:F:1275:ALA:O	1:F:1279:VAL:HG23	2.20	0.41
1:F:2294:SER:HB3	1:F:2310:LYS:HB2	2.02	0.41
1:F:2611:VAL:HA	1:F:2612:PRO:HD3	1.86	0.41
1:F:2701:LEU:HD23	1:A:2558:LEU:HB2	2.02	0.41
1:F:2891:LYS:HB2	1:F:2893:ASP:OD2	2.21	0.41
1:A:107:LEU:HD13	1:A:113:VAL:HB	2.02	0.41
1:A:417:LEU:HD21	1:A:625:LEU:HD21	2.02	0.41
1:A:585:HIS:HB3	1:A:694:ASP:HB2	2.03	0.41
1:A:954:PRO:O	1:A:965:ASN:N	2.52	0.41
1:A:2098:THR:HG23	1:A:2099:GLN:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2141:VAL:HG22	1:A:2238:PHE:HD2	1.85	0.41
1:A:2892:HIS:HA	1:A:2942:GLN:HE22	1.85	0.41
1:B:2134:TYR:HB3	1:B:2189:PHE:HD2	1.85	0.41
1:B:2300:PHE:HZ	1:B:2398:LEU:HB3	1.85	0.41
1:B:2444:PRO:HB2	1:B:2988:PRO:HB3	2.01	0.41
1:B:2770:LEU:CB	1:B:2815:GLN:HB3	2.51	0.41
1:C:42:GLU:HA	1:C:43:PRO:HD3	1.91	0.41
1:C:1084:THR:CG2	1:C:1274:ALA:HA	2.49	0.41
1:C:1120:GLU:HA	1:C:1125:VAL:CG2	2.50	0.41
1:C:2205:ASP:O	1:C:2209:LEU:HB2	2.21	0.41
1:C:2770:LEU:CB	1:C:2815:GLN:HB3	2.51	0.41
1:C:2891:LYS:NZ	1:C:2903:GLU:HB3	2.35	0.41
1:D:594:LEU:O	1:D:598:TYR:HB2	2.21	0.41
1:D:795:HIS:NE2	1:D:797:GLN:HB2	2.35	0.41
1:D:2405:MET:O	1:D:2409:ALA:HB3	2.21	0.41
1:E:78:GLU:HB2	1:E:176:VAL:HG21	2.01	0.41
1:E:160:GLN:HA	1:E:329:ILE:HD13	2.02	0.41
1:E:278:ARG:HD2	1:E:674:TRP:CE3	2.56	0.41
1:E:1099:PRO:HB2	1:E:1295:TRP:HE1	1.86	0.41
1:E:2710:LEU:HD12	1:E:2713:VAL:HG21	2.03	0.41
1:E:2800:PHE:CZ	1:E:2812:LEU:HD13	2.55	0.41
1:E:2919:GLY:O	1:E:2921:PRO:HD3	2.21	0.41
1:F:202:GLY:O	1:F:289:PRO:HD2	2.21	0.41
1:F:438:THR:HA	1:F:880:HIS:CE1	2.51	0.41
1:F:594:LEU:O	1:F:598:TYR:HB2	2.21	0.41
1:F:669:LYS:O	1:F:682:ASN:HB3	2.20	0.41
1:F:709:LEU:HD11	1:F:872:ARG:CZ	2.51	0.41
1:F:795:HIS:NE2	1:F:797:GLN:HB2	2.35	0.41
1:F:1120:GLU:HA	1:F:1125:VAL:CG2	2.50	0.41
1:F:1291:LYS:HZ2	1:F:1346:PRO:N	2.17	0.41
1:F:1491:ASP:HB2	1:F:1495:ARG:HB2	2.02	0.41
1:F:1660:LEU:HD23	1:F:1660:LEU:HA	1.86	0.41
1:A:1120:GLU:HA	1:A:1125:VAL:CG2	2.50	0.41
1:A:1462:ALA:HB2	1:A:1468:TYR:CE1	2.56	0.41
1:B:928:ALA:HB1	1:B:931:VAL:CB	2.50	0.41
1:B:1095:LEU:HD23	1:B:1098:VAL:HA	2.02	0.41
1:C:81:LEU:HD23	1:C:81:LEU:HA	1.88	0.41
1:C:756:LEU:HD13	1:C:859:PHE:CD2	2.55	0.41
1:C:2096:VAL:CG2	1:C:2097:ALA:N	2.82	0.41
1:C:2134:TYR:HB3	1:C:2189:PHE:HD2	1.85	0.41
1:C:2286:ARG:HD3	1:C:2331:SER:OG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2889:ILE:HG13	1:C:2922:LEU:HD13	2.02	0.41
1:C:2891:LYS:HB2	1:C:2893:ASP:OD2	2.21	0.41
1:D:436:THR:HG22	1:D:460:GLY:HA3	2.03	0.41
1:D:587:TRP:CZ2	1:D:694:ASP:OD2	2.74	0.41
1:D:656:THR:OG1	1:D:880:HIS:ND1	2.35	0.41
1:D:1087:PHE:HD2	1:E:117:LYS:HZ1	1.68	0.41
1:D:1353:PRO:HB2	1:D:1707:SER:HB2	2.03	0.41
1:D:1533:VAL:N	1:D:1543:ALA:O	2.52	0.41
1:D:1619:VAL:HA	1:D:1620:PRO:HD2	1.81	0.41
1:D:2014:SER:H	1:E:2591:ARG:NH1	2.19	0.41
1:D:2098:THR:HG23	1:D:2099:GLN:N	2.36	0.41
1:D:2205:ASP:O	1:D:2209:LEU:HB2	2.21	0.41
1:D:2422:GLU:O	1:D:2422:GLU:CG	2.69	0.41
1:D:2697:HIS:CD2	1:C:2700:LEU:HD22	2.43	0.41
1:D:2737:VAL:HG23	1:C:2735:HIS:O	2.21	0.41
1:D:3062:HIS:H	1:D:3066:GLU:HG3	1.86	0.41
1:E:594:LEU:O	1:E:598:TYR:HB2	2.21	0.41
1:E:669:LYS:O	1:E:682:ASN:HB3	2.20	0.41
1:E:1133:VAL:O	1:E:1193:ALA:N	2.42	0.41
1:E:1706:LYS:HA	1:E:1735:GLU:HG3	2.02	0.41
1:E:2010:GLN:OE1	1:E:2013:LEU:HD11	2.21	0.41
1:E:2286:ARG:HD3	1:E:2331:SER:OG	2.20	0.41
1:E:2483:VAL:HG13	1:E:2954:VAL:HG11	2.03	0.41
1:E:2647:VAL:HA	1:E:2650:TRP:CD1	2.53	0.41
1:E:2672:TRP:CZ3	1:E:2830:LYS:HG2	2.56	0.41
1:E:2889:ILE:HD12	1:E:2993:LEU:HD23	2.03	0.41
1:E:2891:LYS:NZ	1:E:2903:GLU:HB3	2.35	0.41
1:E:2892:HIS:HA	1:E:2942:GLN:HE22	1.85	0.41
1:E:2978:ARG:HG3	1:E:2979:GLU:HG3	2.03	0.41
1:F:180:ALA:O	1:F:184:LEU:HG	2.21	0.41
1:F:374:GLY:C	1:F:375:ILE:HG13	2.41	0.41
1:F:668:THR:HG23	1:F:683:GLY:HA3	2.02	0.41
1:F:793:ARG:HH12	1:F:2523:GLU:CD	2.24	0.41
1:F:2200:MET:HB3	1:F:2200:MET:HE3	1.96	0.41
1:F:2286:ARG:HD3	1:F:2331:SER:OG	2.20	0.41
1:F:2405:MET:O	1:F:2409:ALA:HB3	2.21	0.41
1:F:2563:LEU:HD21	1:F:2567:PHE:HB2	2.02	0.41
1:F:2892:HIS:HA	1:F:2942:GLN:HE22	1.85	0.41
1:F:3057:ASP:OD1	1:F:3057:ASP:N	2.54	0.41
1:A:78:GLU:HB2	1:A:176:VAL:HG21	2.01	0.41
1:A:358:ASP:OD2	1:A:361:THR:HB	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:436:THR:HG22	1:A:460:GLY:HA3	2.03	0.41
1:A:793:ARG:HH12	1:A:2523:GLU:CD	2.24	0.41
1:A:795:HIS:NE2	1:A:797:GLN:HB2	2.35	0.41
1:A:1087:PHE:CD1	1:B:198:ILE:HG23	2.56	0.41
1:A:1099:PRO:HB2	1:A:1295:TRP:HE1	1.86	0.41
1:A:1228:VAL:HB	1:A:1311:PHE:HB2	2.02	0.41
1:A:2134:TYR:HB3	1:A:2189:PHE:HD2	1.85	0.41
1:A:2452:ASP:CG	1:A:2453:LEU:H	2.23	0.41
1:A:2584:ASP:O	1:A:2586:GLU:N	2.53	0.41
1:A:2710:LEU:HD12	1:A:2713:VAL:HG21	2.03	0.41
1:A:2770:LEU:CB	1:A:2815:GLN:HB3	2.51	0.41
1:A:2800:PHE:CZ	1:A:2812:LEU:HD13	2.55	0.41
1:A:2845:PHE:N	1:A:3003:SER:O	2.46	0.41
1:A:2919:GLY:O	1:A:2921:PRO:HD3	2.21	0.41
1:B:358:ASP:OD2	1:B:361:THR:HB	2.21	0.41
1:B:417:LEU:HD21	1:B:625:LEU:HD21	2.02	0.41
1:B:559:SER:O	1:B:563:ILE:HG12	2.20	0.41
1:B:747:LEU:O	1:B:751:ARG:N	2.44	0.41
1:B:954:PRO:O	1:B:965:ASN:N	2.52	0.41
1:B:1087:PHE:CD1	1:C:198:ILE:HG23	2.56	0.41
1:B:1233:PRO:HB2	1:B:1236:MET:HE2	2.03	0.41
1:B:2055:VAL:HG22	1:B:2194:TRP:CD1	2.55	0.41
1:B:2405:MET:O	1:B:2409:ALA:HB3	2.21	0.41
1:B:2889:ILE:HB	1:B:2924:ILE:HG12	2.01	0.41
1:B:3062:HIS:H	1:B:3066:GLU:HG3	1.86	0.41
1:C:336:TRP:HE3	1:C:339:GLU:OE2	2.03	0.41
1:C:488:ASN:OD1	1:C:523:SER:OG	2.34	0.41
1:C:559:SER:O	1:C:563:ILE:HG12	2.20	0.41
1:C:709:LEU:HD11	1:C:872:ARG:CZ	2.51	0.41
1:C:1133:VAL:N	1:C:1193:ALA:O	2.48	0.41
1:C:1460:ALA:O	1:C:1464:VAL:HG22	2.20	0.41
1:C:1637:VAL:HA	1:C:1638:PRO:HD2	1.91	0.41
1:C:1687:PHE:CE1	1:C:1723:GLU:HG2	2.55	0.41
1:C:1719:LEU:O	1:C:1723:GLU:HB3	2.21	0.41
1:C:2098:THR:HG23	1:C:2099:GLN:N	2.36	0.41
1:C:2405:MET:O	1:C:2409:ALA:HB3	2.21	0.41
1:C:2530:TYR:O	1:C:2533:ALA:N	2.52	0.41
1:C:2618:SER:HB3	1:C:2786:ASP:OD1	2.21	0.41
1:C:2647:VAL:HA	1:C:2650:TRP:CD1	2.53	0.41
1:C:2961:LEU:HD22	1:C:2976:TRP:HD1	1.85	0.41
1:D:709:LEU:HD11	1:D:872:ARG:CZ	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:795:HIS:HE2	1:D:797:GLN:HB2	1.86	0.41
1:D:1087:PHE:CD1	1:E:198:ILE:HG23	2.56	0.41
1:D:2010:GLN:OE1	1:D:2013:LEU:HD11	2.21	0.41
1:D:2715:PRO:HD2	1:C:2737:VAL:HG11	2.02	0.41
1:E:585:HIS:HB3	1:E:694:ASP:HB2	2.03	0.41
1:E:1237:ARG:HH11	1:E:1237:ARG:HG2	1.86	0.41
1:F:417:LEU:HD21	1:F:625:LEU:HD21	2.02	0.41
1:F:618:PRO:HB3	1:F:915:PHE:HA	2.02	0.41
1:F:795:HIS:HE2	1:F:797:GLN:HB2	1.86	0.41
1:F:959:ALA:CB	1:F:1127:GLU:C	2.89	0.41
1:F:1687:PHE:CE1	1:F:1723:GLU:HG2	2.55	0.41
1:F:1702:GLU:OE1	1:F:1711:VAL:HG22	2.21	0.41
1:F:2205:ASP:O	1:F:2209:LEU:HB2	2.21	0.41
1:F:2618:SER:HB3	1:F:2786:ASP:OD1	2.21	0.41
1:F:3062:HIS:H	1:F:3066:GLU:CG	2.34	0.41
1:A:202:GLY:O	1:A:289:PRO:HD2	2.21	0.41
1:A:587:TRP:CZ2	1:A:694:ASP:OD2	2.74	0.41
1:A:957:LEU:O	1:A:1034:GLU:HB2	2.20	0.41
1:A:1986:LEU:HA	1:A:1989:PHE:CD2	2.56	0.41
1:A:2014:SER:H	1:B:2591:ARG:NH1	2.19	0.41
1:A:2212:TRP:O	1:A:2229:LYS:HB3	2.21	0.41
1:A:2286:ARG:HD3	1:A:2331:SER:OG	2.20	0.41
1:A:2422:GLU:O	1:A:2422:GLU:CG	2.69	0.41
1:B:278:ARG:HD2	1:B:674:TRP:CE3	2.56	0.41
1:B:618:PRO:HB3	1:B:915:PHE:HA	2.02	0.41
1:B:795:HIS:HE2	1:B:797:GLN:HB2	1.86	0.41
1:B:1400:PRO:O	1:B:1415:GLY:HA2	2.21	0.41
1:B:1719:LEU:O	1:B:1723:GLU:HB3	2.21	0.41
1:B:2212:TRP:O	1:B:2229:LYS:HB3	2.21	0.41
1:C:1533:VAL:N	1:C:1543:ALA:O	2.52	0.41
1:C:2212:TRP:O	1:C:2229:LYS:HB3	2.21	0.41
1:C:2563:LEU:HD21	1:C:2567:PHE:HB2	2.02	0.41
1:C:2978:ARG:HG3	1:C:2979:GLU:HG3	2.03	0.41
1:C:3062:HIS:H	1:C:3066:GLU:HG3	1.86	0.41
1:D:488:ASN:OD1	1:D:523:SER:OG	2.34	0.40
1:D:585:HIS:HD2	1:D:586:SER:H	1.62	0.40
1:E:336:TRP:HE1	1:E:364:THR:HG22	1.86	0.40
1:E:587:TRP:CZ2	1:E:694:ASP:OD2	2.74	0.40
1:E:709:LEU:HD11	1:E:872:ARG:CZ	2.51	0.40
1:E:756:LEU:HD13	1:E:859:PHE:CD2	2.55	0.40
1:E:1504:ARG:HA	1:E:1505:PRO:HD2	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2141:VAL:HG22	1:E:2238:PHE:CD2	2.56	0.40
1:E:2715:PRO:HD2	1:B:2737:VAL:HG11	2.02	0.40
1:E:2735:HIS:O	1:B:2737:VAL:HG23	2.21	0.40
1:F:1462:ALA:HB2	1:F:1468:TYR:CE1	2.56	0.40
1:F:2503:LYS:HG3	1:F:2513:TYR:HB2	2.02	0.40
1:F:2735:HIS:O	1:A:2737:VAL:HG23	2.21	0.40
1:A:163:LEU:HD21	1:A:181:LEU:HB3	2.04	0.40
1:A:180:ALA:O	1:A:184:LEU:HG	2.21	0.40
1:A:487:PHE:O	1:A:521:VAL:N	2.51	0.40
1:A:2889:ILE:HD12	1:A:2993:LEU:HD23	2.03	0.40
1:B:793:ARG:HH12	1:B:2523:GLU:CD	2.24	0.40
1:B:1017:ILE:HG12	1:B:1045:VAL:HG11	2.03	0.40
1:B:1099:PRO:HB2	1:B:1295:TRP:HE1	1.86	0.40
1:B:1237:ARG:HG2	1:B:1237:ARG:HH11	1.86	0.40
1:B:1702:GLU:OE1	1:B:1711:VAL:HG22	2.22	0.40
1:B:2808:ARG:HH21	1:B:2901:PRO:HD3	1.85	0.40
1:C:133:GLN:O	1:C:137:VAL:HG23	2.21	0.40
1:C:1353:PRO:HB2	1:C:1707:SER:HB2	2.04	0.40
1:C:1491:ASP:HB2	1:C:1495:ARG:HB2	2.02	0.40
1:C:1606:ASP:HA	1:C:1607:PRO:HD3	1.95	0.40
1:C:2346:MET:O	1:C:2349:ASN:N	2.55	0.40
1:C:2672:TRP:CZ3	1:C:2830:LYS:HG2	2.56	0.40
1:C:2889:ILE:HD12	1:C:2993:LEU:HD23	2.03	0.40
1:D:618:PRO:HB3	1:D:915:PHE:HA	2.02	0.40
1:D:793:ARG:HH12	1:D:2523:GLU:CD	2.24	0.40
1:D:1008:VAL:O	1:D:1008:VAL:CG1	2.67	0.40
1:D:1719:LEU:O	1:D:1723:GLU:HB3	2.21	0.40
1:E:273:ARG:HD2	1:E:282:VAL:CG1	2.51	0.40
1:E:358:ASP:OD2	1:E:361:THR:HB	2.21	0.40
1:E:374:GLY:C	1:E:375:ILE:HG13	2.41	0.40
1:E:1400:PRO:O	1:E:1415:GLY:HA2	2.21	0.40
1:E:2492:VAL:HG12	1:E:2526:ILE:HG22	2.02	0.40
1:E:2737:VAL:HG23	1:B:2735:HIS:O	2.21	0.40
1:E:2865:ARG:HD2	1:B:2674:HIS:NE2	2.37	0.40
1:E:2961:LEU:HD22	1:E:2976:TRP:HD1	1.85	0.40
1:F:1237:ARG:HG2	1:F:1237:ARG:HH11	1.86	0.40
1:F:1271:LEU:HB3	1:F:1337:MET:SD	2.62	0.40
1:F:1719:LEU:O	1:F:1723:GLU:HB3	2.22	0.40
1:F:2141:VAL:HG22	1:F:2238:PHE:CD2	2.56	0.40
1:A:142:ARG:HD3	1:A:142:ARG:HA	1.91	0.40
1:A:1702:GLU:OE1	1:A:1711:VAL:HG22	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2346:MET:O	1:A:2349:ASN:N	2.55	0.40
1:A:2405:MET:O	1:A:2409:ALA:HB3	2.21	0.40
1:A:2483:VAL:HG13	1:A:2954:VAL:HG11	2.03	0.40
1:A:2672:TRP:CZ3	1:A:2830:LYS:HG2	2.56	0.40
1:B:273:ARG:HD2	1:B:282:VAL:CG1	2.51	0.40
1:B:1008:VAL:CG2	1:B:1008:VAL:O	2.67	0.40
1:B:1095:LEU:HD13	1:B:1289:PRO:CB	2.52	0.40
1:C:793:ARG:HH12	1:C:2523:GLU:CD	2.24	0.40
1:C:1462:ALA:HB2	1:C:1468:TYR:CE1	2.56	0.40
1:C:2831:MET:HE2	1:C:2831:MET:HB3	1.91	0.40
1:C:2919:GLY:O	1:C:2921:PRO:HD3	2.21	0.40
1:D:408:VAL:HG23	1:D:418:GLU:HB2	2.03	0.40
1:D:1616:PRO:HG2	1:D:1619:VAL:HB	2.04	0.40
1:D:2574:GLU:HG3	1:D:2599:TRP:CE2	2.57	0.40
1:D:2961:LEU:HD13	1:D:2976:TRP:CD1	2.57	0.40
1:D:2978:ARG:HG3	1:D:2979:GLU:HG3	2.03	0.40
1:E:278:ARG:HD2	1:E:674:TRP:HE3	1.87	0.40
1:E:360:LEU:HA	1:E:363:LEU:HB3	2.03	0.40
1:E:795:HIS:HE2	1:E:797:GLN:HB2	1.86	0.40
1:E:1271:LEU:HB3	1:E:1337:MET:SD	2.62	0.40
1:E:2555:SER:HA	1:E:2556:PRO:HD2	1.85	0.40
1:E:2697:HIS:CD2	1:B:2700:LEU:HD22	2.43	0.40
1:F:360:LEU:HA	1:F:363:LEU:HB3	2.03	0.40
1:F:428:SER:HA	1:F:429:PRO:HD3	1.94	0.40
1:F:839:HIS:HA	1:F:840:PRO:HD3	1.99	0.40
1:F:956:VAL:HA	1:F:1034:GLU:OE1	2.20	0.40
1:F:1616:PRO:HG2	1:F:1619:VAL:HB	2.04	0.40
1:F:2737:VAL:HG11	1:A:2715:PRO:HD2	2.02	0.40
1:F:3062:HIS:H	1:F:3066:GLU:HG3	1.86	0.40
1:A:381:ARG:O	1:A:385:ARG:HG3	2.22	0.40
1:A:794:LEU:HD12	1:A:830:TYR:HB3	2.04	0.40
1:A:1400:PRO:O	1:A:1415:GLY:HA2	2.21	0.40
1:A:1706:LYS:HA	1:A:1735:GLU:HG3	2.03	0.40
1:A:2492:VAL:HG12	1:A:2526:ILE:HG22	2.02	0.40
1:A:2503:LYS:HE2	1:A:2514:ASP:O	2.22	0.40
1:A:2557:LEU:HD23	1:A:2558:LEU:N	2.37	0.40
1:B:587:TRP:CZ2	1:B:694:ASP:OD2	2.74	0.40
1:B:594:LEU:O	1:B:598:TYR:HB2	2.21	0.40
1:B:1070:VAL:N	1:B:1152:PHE:O	2.52	0.40
1:B:1399:ASN:HA	1:B:1400:PRO:HD3	1.86	0.40
1:B:1598:GLU:HG2	1:B:1666:ILE:HG21	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2422:GLU:O	1:B:2422:GLU:CG	2.69	0.40
1:B:2961:LEU:HD13	1:B:2976:TRP:CD1	2.57	0.40
1:C:233:LEU:HB3	1:C:251:THR:OG1	2.21	0.40
1:C:278:ARG:HD2	1:C:674:TRP:HE3	1.87	0.40
1:C:1611:ILE:HG23	1:C:1624:THR:HA	2.02	0.40
1:C:2141:VAL:HG22	1:C:2238:PHE:CD2	2.56	0.40
1:C:3057:ASP:N	1:C:3057:ASP:OD1	2.54	0.40
1:D:544:ILE:C	1:D:546:HIS:H	2.22	0.40
1:D:1462:ALA:HB2	1:D:1468:TYR:CE1	2.56	0.40
1:D:1580:PRO:O	1:D:1583:SER:OG	2.23	0.40
1:D:1656:LYS:HE2	1:D:1660:LEU:HD21	2.03	0.40
1:D:3057:ASP:OD1	1:D:3057:ASP:N	2.54	0.40
1:E:163:LEU:HD21	1:E:181:LEU:HB3	2.04	0.40
1:E:794:LEU:HD12	1:E:830:TYR:HB3	2.04	0.40
1:E:1719:LEU:O	1:E:1723:GLU:HB3	2.21	0.40
1:E:2098:THR:HG23	1:E:2099:GLN:N	2.36	0.40
1:E:2495:LEU:HD23	1:E:2495:LEU:HA	1.89	0.40
1:E:2557:LEU:HD23	1:E:2558:LEU:N	2.37	0.40
1:E:2574:GLU:HG3	1:E:2599:TRP:CE2	2.57	0.40
1:F:336:TRP:HE1	1:F:364:THR:HG22	1.86	0.40
1:F:959:ALA:CB	1:F:1127:GLU:N	2.74	0.40
1:F:1095:LEU:HD13	1:F:1289:PRO:CB	2.52	0.40
1:F:1400:PRO:O	1:F:1415:GLY:HA2	2.21	0.40
1:F:2010:GLN:OE1	1:F:2013:LEU:HD11	2.21	0.40
1:F:2212:TRP:O	1:F:2229:LYS:HB3	2.21	0.40
1:F:2346:MET:O	1:F:2349:ASN:N	2.55	0.40
1:F:2352:ILE:HG21	1:F:2412:ALA:HB2	2.04	0.40
1:F:2422:GLU:O	1:F:2422:GLU:CG	2.69	0.40
1:F:2503:LYS:HE2	1:F:2514:ASP:O	2.22	0.40
1:F:2891:LYS:HZ1	1:F:2904:THR:N	2.19	0.40
1:A:133:GLN:O	1:A:137:VAL:HG23	2.21	0.40
1:A:198:ILE:HG23	1:C:1087:PHE:CD1	2.56	0.40
1:A:260:LEU:HD13	1:C:1725:SER:CB	2.51	0.40
1:A:1237:ARG:HH11	1:A:1237:ARG:HG2	1.86	0.40
1:A:1504:ARG:HA	1:A:1505:PRO:HD2	1.93	0.40
1:A:1535:PHE:O	1:A:1679:TRP:N	2.48	0.40
1:A:2299:MET:H	1:A:2299:MET:HG2	1.68	0.40
1:A:2891:LYS:HB2	1:A:2893:ASP:OD2	2.21	0.40
1:A:2978:ARG:HG3	1:A:2979:GLU:HG3	2.03	0.40
1:B:233:LEU:HB3	1:B:251:THR:OG1	2.21	0.40
1:B:1604:ASP:N	1:B:1604:ASP:OD1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2346:MET:O	1:B:2349:ASN:N	2.55	0.40
1:B:2618:SER:HB3	1:B:2786:ASP:OD1	2.21	0.40
1:B:2647:VAL:HA	1:B:2650:TRP:CD1	2.53	0.40
1:B:2672:TRP:CZ3	1:B:2830:LYS:HG2	2.56	0.40
1:B:3062:HIS:H	1:B:3066:GLU:CG	2.34	0.40
1:C:273:ARG:HD2	1:C:282:VAL:CG1	2.51	0.40
1:C:669:LYS:O	1:C:682:ASN:HB3	2.20	0.40
1:C:1095:LEU:HD13	1:C:1289:PRO:CB	2.52	0.40
1:C:1360:LYS:HD2	1:C:1398:ASP:HA	2.04	0.40
1:C:1629:PHE:O	1:C:1633:ILE:HG13	2.22	0.40
1:D:745:THR:HG22	1:D:747:LEU:N	2.37	0.40
1:D:1095:LEU:HD13	1:D:1289:PRO:CB	2.52	0.40
1:D:2697:HIS:HE1	1:D:2773:GLU:OE2	2.05	0.40
1:D:2737:VAL:HG11	1:C:2715:PRO:HD2	2.02	0.40
1:D:2843:GLN:HE22	1:C:2758:LYS:HB3	1.87	0.40
1:E:745:THR:HG22	1:E:747:LEU:N	2.37	0.40
1:E:1535:PHE:O	1:E:1679:TRP:N	2.48	0.40
1:E:1606:ASP:HA	1:E:1607:PRO:HD3	1.95	0.40
1:E:1656:LYS:HE2	1:E:1660:LEU:HD21	2.03	0.40
1:E:2674:HIS:NE2	1:B:2865:ARG:HD2	2.37	0.40
1:E:2891:LYS:HZ1	1:E:2904:THR:N	2.20	0.40
1:F:541:GLU:HG3	1:F:542:VAL:N	2.37	0.40
1:F:745:THR:HG22	1:F:747:LEU:N	2.37	0.40
1:F:1133:VAL:N	1:F:1193:ALA:O	2.48	0.40
1:F:1353:PRO:HB2	1:F:1707:SER:HB2	2.03	0.40
1:F:1399:ASN:HA	1:F:1400:PRO:HD3	1.86	0.40
1:F:2211:GLU:O	1:F:2215:THR:OG1	2.39	0.40
1:F:2645:ASP:OD2	1:F:2691:SER:HB2	2.22	0.40
1:F:2672:TRP:CZ3	1:F:2830:LYS:HG2	2.56	0.40
1:F:2770:LEU:CB	1:F:2815:GLN:HB3	2.51	0.40
1:F:2865:ARG:HD2	1:A:2674:HIS:NE2	2.37	0.40
1:F:2961:LEU:HD22	1:F:2976:TRP:HD1	1.85	0.40
1:A:90:LEU:HD22	1:A:93:VAL:HB	2.04	0.40
1:A:278:ARG:HD2	1:A:674:TRP:CE3	2.56	0.40
1:A:336:TRP:HE1	1:A:364:THR:HG22	1.86	0.40
1:A:1070:VAL:N	1:A:1152:PHE:O	2.52	0.40
1:A:1291:LYS:HZ2	1:A:1346:PRO:N	2.20	0.40
1:A:1460:ALA:O	1:A:1464:VAL:HG22	2.20	0.40
1:A:1487:ILE:H	1:A:1487:ILE:HG12	1.75	0.40
1:A:1989:PHE:O	1:A:1992:LYS:HG2	2.22	0.40
1:A:2141:VAL:HG22	1:A:2238:PHE:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:163:LEU:HD21	1:B:181:LEU:HB3	2.04	0.40
1:B:202:GLY:O	1:B:289:PRO:HD2	2.21	0.40
1:B:668:THR:HG23	1:B:683:GLY:HA3	2.02	0.40
1:B:1500:LEU:HD23	1:B:1574:VAL:HG21	2.03	0.40
1:B:1616:PRO:HG2	1:B:1619:VAL:HB	2.04	0.40
1:B:2098:THR:HG23	1:B:2099:GLN:N	2.36	0.40
1:B:2530:TYR:O	1:B:2533:ALA:N	2.52	0.40
1:B:2611:VAL:HA	1:B:2612:PRO:HD3	1.86	0.40
1:B:2978:ARG:HG3	1:B:2979:GLU:HG3	2.03	0.40
1:C:180:ALA:O	1:C:184:LEU:HG	2.21	0.40
1:C:436:THR:HG22	1:C:460:GLY:HA3	2.03	0.40
1:C:594:LEU:O	1:C:598:TYR:HB2	2.21	0.40
1:C:795:HIS:HE2	1:C:797:GLN:HB2	1.86	0.40
1:C:2010:GLN:OE1	1:C:2013:LEU:HD11	2.21	0.40
1:C:2422:GLU:O	1:C:2422:GLU:CG	2.69	0.40
1:C:2483:VAL:HG13	1:C:2954:VAL:HG11	2.03	0.40
1:C:2574:GLU:HG3	1:C:2599:TRP:CE2	2.57	0.40
1:C:3062:HIS:H	1:C:3066:GLU:CG	2.34	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	2818/3089 (91%)	2642 (94%)	157 (6%)	19 (1%)	22	63
1	B	2818/3089 (91%)	2642 (94%)	158 (6%)	18 (1%)	25	66
1	C	2818/3089 (91%)	2642 (94%)	157 (6%)	19 (1%)	22	63
1	D	2448/3089 (79%)	2293 (94%)	138 (6%)	17 (1%)	22	63
1	E	2818/3089 (91%)	2641 (94%)	159 (6%)	18 (1%)	25	66
1	F	2818/3089 (91%)	2630 (93%)	163 (6%)	25 (1%)	17	57

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	16538/18534 (89%)	15490 (94%)	932 (6%)	116 (1%)	26	63

All (116) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	930	PRO
1	D	1148	GLU
1	D	2428	PRO
1	D	2436	PRO
1	D	2446	PRO
1	D	2448	PRO
1	E	930	PRO
1	E	1148	GLU
1	E	2428	PRO
1	E	2436	PRO
1	E	2446	PRO
1	E	2448	PRO
1	F	930	PRO
1	F	1041	ALA
1	F	1043	ARG
1	F	1148	GLU
1	F	2428	PRO
1	F	2436	PRO
1	F	2446	PRO
1	F	2448	PRO
1	A	930	PRO
1	A	1148	GLU
1	A	2428	PRO
1	A	2436	PRO
1	A	2446	PRO
1	A	2448	PRO
1	B	930	PRO
1	B	1148	GLU
1	B	2428	PRO
1	B	2436	PRO
1	B	2446	PRO
1	B	2448	PRO
1	C	930	PRO
1	C	1148	GLU
1	C	2428	PRO
1	C	2436	PRO
1	C	2446	PRO

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Mol	Chain	Res	Type
1	C	2448	PRO
1	D	990	PRO
1	D	1009	PRO
1	E	990	PRO
1	E	1009	PRO
1	F	990	PRO
1	F	1009	PRO
1	A	990	PRO
1	A	1009	PRO
1	B	990	PRO
1	B	1009	PRO
1	C	990	PRO
1	C	1009	PRO
1	D	1724	TYR
1	E	1724	TYR
1	F	1724	TYR
1	A	1724	TYR
1	B	1652	TRP
1	B	1724	TYR
1	C	1724	TYR
1	D	1205	ASP
1	D	1652	TRP
1	D	1705	VAL
1	E	149	ALA
1	E	1205	ASP
1	E	1652	TRP
1	E	1705	VAL
1	F	149	ALA
1	F	1034	GLU
1	F	1205	ASP
1	F	1652	TRP
1	F	1705	VAL
1	A	149	ALA
1	A	1205	ASP
1	A	1652	TRP
1	A	1705	VAL
1	B	149	ALA
1	B	1205	ASP
1	B	1705	VAL
1	C	149	ALA
1	C	1205	ASP
1	C	1652	TRP

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Mol	Chain	Res	Type
1	C	1705	VAL
1	D	1221	PRO
1	D	2444	PRO
1	E	89	GLU
1	E	1221	PRO
1	E	2444	PRO
1	F	89	GLU
1	F	1038	ALA
1	F	1221	PRO
1	F	2444	PRO
1	A	89	GLU
1	A	1221	PRO
1	A	2444	PRO
1	B	89	GLU
1	B	1221	PRO
1	B	2444	PRO
1	C	89	GLU
1	C	1221	PRO
1	C	2444	PRO
1	F	959	ALA
1	F	1040	THR
1	D	1068	VAL
1	D	1285	LYS
1	E	1068	VAL
1	E	1285	LYS
1	F	1068	VAL
1	F	1285	LYS
1	A	1068	VAL
1	A	1285	LYS
1	B	1068	VAL
1	B	1285	LYS
1	C	1068	VAL
1	C	1285	LYS
1	D	2585	PRO
1	F	2585	PRO
1	A	2585	PRO
1	C	2585	PRO

5.3.2 Protein sidechains [i](#)

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

entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	2096/2402 (87%)	1994 (95%)	102 (5%)	25	50
1	B	2096/2402 (87%)	1993 (95%)	103 (5%)	25	50
1	C	2095/2402 (87%)	1993 (95%)	102 (5%)	25	50
1	D	1808/2402 (75%)	1720 (95%)	88 (5%)	25	50
1	E	2097/2402 (87%)	1995 (95%)	102 (5%)	25	50
1	F	2097/2402 (87%)	1992 (95%)	105 (5%)	24	49
All	All	12289/14412 (85%)	11687 (95%)	602 (5%)	29	50

All (602) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	409	LYS
1	D	424	LEU
1	D	427	ARG
1	D	439	THR
1	D	456	GLU
1	D	517	ILE
1	D	544	ILE
1	D	580	ARG
1	D	584	HIS
1	D	595	LEU
1	D	606	ASN
1	D	621	SER
1	D	638	MET
1	D	644	LEU
1	D	654	GLU
1	D	694	ASP
1	D	696	HIS
1	D	699	ASP
1	D	791	GLU
1	D	857	VAL
1	D	930	PRO
1	D	990	PRO
1	D	1009	PRO
1	D	1021	LEU
1	D	1096	THR
1	D	1105	ARG

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Mol	Chain	Res	Type
1	D	1127	GLU
1	D	1162	THR
1	D	1206	PRO
1	D	1221	PRO
1	D	1253	ARG
1	D	1358	GLN
1	D	1421	GLN
1	D	1468	TYR
1	D	1471	GLU
1	D	1488	VAL
1	D	1508	ILE
1	D	1544	ILE
1	D	1551	LEU
1	D	1564	ILE
1	D	1618	LEU
1	D	1651	THR
1	D	1662	ARG
1	D	1672	GLN
1	D	1673	PHE
1	D	1745	ASP
1	D	2059	ARG
1	D	2067	LEU
1	D	2070	LEU
1	D	2129	PRO
1	D	2192	THR
1	D	2196	VAL
1	D	2209	LEU
1	D	2294	SER
1	D	2297	ARG
1	D	2299	MET
1	D	2303	ASP
1	D	2306	TYR
1	D	2395	THR
1	D	2401	ILE
1	D	2428	PRO
1	D	2436	PRO
1	D	2438	PRO
1	D	2439	PRO
1	D	2444	PRO
1	D	2446	PRO
1	D	2448	PRO
1	D	2620	THR

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Mol	Chain	Res	Type
1	D	2692	MET
1	D	2742	THR
1	D	2784	THR
1	D	2800	PHE
1	D	2802	ARG
1	D	2809	LEU
1	D	2827	LEU
1	D	2861	LEU
1	D	2871	THR
1	D	2879	LEU
1	D	2894	THR
1	D	2916	ARG
1	D	2930	LEU
1	D	2935	LYS
1	D	2962	ASP
1	D	3001	HIS
1	D	3019	ASP
1	D	3076	SER
1	D	3077	THR
1	D	3080	ARG
1	E	90	LEU
1	E	208	VAL
1	E	209	SER
1	E	232	VAL
1	E	233	LEU
1	E	248	ILE
1	E	251	THR
1	E	342	GLU
1	E	344	HIS
1	E	358	ASP
1	E	361	THR
1	E	389	THR
1	E	390	VAL
1	E	400	TRP
1	E	409	LYS
1	E	424	LEU
1	E	427	ARG
1	E	439	THR
1	E	456	GLU
1	E	517	ILE
1	E	544	ILE
1	E	580	ARG

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Mol	Chain	Res	Type
1	E	584	HIS
1	E	595	LEU
1	E	606	ASN
1	E	621	SER
1	E	638	MET
1	E	644	LEU
1	E	654	GLU
1	E	694	ASP
1	E	696	HIS
1	E	699	ASP
1	E	791	GLU
1	E	857	VAL
1	E	930	PRO
1	E	990	PRO
1	E	1009	PRO
1	E	1021	LEU
1	E	1096	THR
1	E	1105	ARG
1	E	1127	GLU
1	E	1162	THR
1	E	1206	PRO
1	E	1221	PRO
1	E	1253	ARG
1	E	1358	GLN
1	E	1421	GLN
1	E	1468	TYR
1	E	1471	GLU
1	E	1488	VAL
1	E	1508	ILE
1	E	1544	ILE
1	E	1551	LEU
1	E	1564	ILE
1	E	1618	LEU
1	E	1651	THR
1	E	1662	ARG
1	E	1672	GLN
1	E	1673	PHE
1	E	1745	ASP
1	E	2059	ARG
1	E	2067	LEU
1	E	2070	LEU
1	E	2129	PRO

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Mol	Chain	Res	Type
1	E	2192	THR
1	E	2196	VAL
1	E	2209	LEU
1	E	2294	SER
1	E	2297	ARG
1	E	2299	MET
1	E	2303	ASP
1	E	2306	TYR
1	E	2395	THR
1	E	2401	ILE
1	E	2428	PRO
1	E	2436	PRO
1	E	2438	PRO
1	E	2439	PRO
1	E	2444	PRO
1	E	2446	PRO
1	E	2448	PRO
1	E	2620	THR
1	E	2692	MET
1	E	2742	THR
1	E	2784	THR
1	E	2800	PHE
1	E	2802	ARG
1	E	2809	LEU
1	E	2827	LEU
1	E	2861	LEU
1	E	2871	THR
1	E	2879	LEU
1	E	2894	THR
1	E	2916	ARG
1	E	2930	LEU
1	E	2935	LYS
1	E	2962	ASP
1	E	3001	HIS
1	E	3019	ASP
1	E	3076	SER
1	E	3077	THR
1	E	3080	ARG
1	F	90	LEU
1	F	208	VAL
1	F	209	SER
1	F	232	VAL

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Mol	Chain	Res	Type
1	F	233	LEU
1	F	248	ILE
1	F	251	THR
1	F	342	GLU
1	F	344	HIS
1	F	358	ASP
1	F	361	THR
1	F	389	THR
1	F	390	VAL
1	F	400	TRP
1	F	409	LYS
1	F	424	LEU
1	F	427	ARG
1	F	439	THR
1	F	456	GLU
1	F	517	ILE
1	F	544	ILE
1	F	580	ARG
1	F	584	HIS
1	F	595	LEU
1	F	606	ASN
1	F	621	SER
1	F	638	MET
1	F	644	LEU
1	F	654	GLU
1	F	694	ASP
1	F	696	HIS
1	F	699	ASP
1	F	791	GLU
1	F	857	VAL
1	F	930	PRO
1	F	958	TRP
1	F	990	PRO
1	F	1009	PRO
1	F	1021	LEU
1	F	1034	GLU
1	F	1040	THR
1	F	1096	THR
1	F	1105	ARG
1	F	1127	GLU
1	F	1162	THR
1	F	1206	PRO

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Mol	Chain	Res	Type
1	F	1221	PRO
1	F	1253	ARG
1	F	1358	GLN
1	F	1421	GLN
1	F	1468	TYR
1	F	1471	GLU
1	F	1488	VAL
1	F	1508	ILE
1	F	1544	ILE
1	F	1551	LEU
1	F	1564	ILE
1	F	1618	LEU
1	F	1651	THR
1	F	1662	ARG
1	F	1672	GLN
1	F	1673	PHE
1	F	1745	ASP
1	F	2059	ARG
1	F	2067	LEU
1	F	2070	LEU
1	F	2129	PRO
1	F	2192	THR
1	F	2196	VAL
1	F	2209	LEU
1	F	2294	SER
1	F	2297	ARG
1	F	2299	MET
1	F	2303	ASP
1	F	2306	TYR
1	F	2395	THR
1	F	2401	ILE
1	F	2428	PRO
1	F	2436	PRO
1	F	2438	PRO
1	F	2439	PRO
1	F	2444	PRO
1	F	2446	PRO
1	F	2448	PRO
1	F	2620	THR
1	F	2692	MET
1	F	2742	THR
1	F	2784	THR

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

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Mol	Chain	Res	Type
1	A	621	SER
1	A	638	MET
1	A	644	LEU
1	A	654	GLU
1	A	694	ASP
1	A	696	HIS
1	A	699	ASP
1	A	791	GLU
1	A	857	VAL
1	A	930	PRO
1	A	990	PRO
1	A	1009	PRO
1	A	1021	LEU
1	A	1096	THR
1	A	1105	ARG
1	A	1127	GLU
1	A	1162	THR
1	A	1206	PRO
1	A	1221	PRO
1	A	1253	ARG
1	A	1358	GLN
1	A	1421	GLN
1	A	1468	TYR
1	A	1471	GLU
1	A	1488	VAL
1	A	1508	ILE
1	A	1544	ILE
1	A	1551	LEU
1	A	1564	ILE
1	A	1618	LEU
1	A	1651	THR
1	A	1662	ARG
1	A	1672	GLN
1	A	1673	PHE
1	A	1745	ASP
1	A	2059	ARG
1	A	2067	LEU
1	A	2070	LEU
1	A	2129	PRO
1	A	2192	THR
1	A	2196	VAL
1	A	2209	LEU

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Mol	Chain	Res	Type
1	A	2294	SER
1	A	2297	ARG
1	A	2299	MET
1	A	2303	ASP
1	A	2306	TYR
1	A	2395	THR
1	A	2401	ILE
1	A	2428	PRO
1	A	2436	PRO
1	A	2438	PRO
1	A	2439	PRO
1	A	2444	PRO
1	A	2446	PRO
1	A	2448	PRO
1	A	2620	THR
1	A	2692	MET
1	A	2742	THR
1	A	2784	THR
1	A	2800	PHE
1	A	2802	ARG
1	A	2809	LEU
1	A	2827	LEU
1	A	2861	LEU
1	A	2871	THR
1	A	2879	LEU
1	A	2894	THR
1	A	2916	ARG
1	A	2930	LEU
1	A	2935	LYS
1	A	2962	ASP
1	A	3001	HIS
1	A	3019	ASP
1	A	3076	SER
1	A	3077	THR
1	A	3080	ARG
1	B	90	LEU
1	B	208	VAL
1	B	209	SER
1	B	232	VAL
1	B	233	LEU
1	B	248	ILE
1	B	251	THR

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Mol	Chain	Res	Type
1	B	342	GLU
1	B	344	HIS
1	B	358	ASP
1	B	361	THR
1	B	389	THR
1	B	390	VAL
1	B	400	TRP
1	B	409	LYS
1	B	424	LEU
1	B	427	ARG
1	B	439	THR
1	B	456	GLU
1	B	517	ILE
1	B	544	ILE
1	B	580	ARG
1	B	584	HIS
1	B	595	LEU
1	B	606	ASN
1	B	621	SER
1	B	638	MET
1	B	644	LEU
1	B	654	GLU
1	B	694	ASP
1	B	696	HIS
1	B	699	ASP
1	B	791	GLU
1	B	857	VAL
1	B	930	PRO
1	B	990	PRO
1	B	1009	PRO
1	B	1021	LEU
1	B	1096	THR
1	B	1105	ARG
1	B	1127	GLU
1	B	1162	THR
1	B	1206	PRO
1	B	1221	PRO
1	B	1253	ARG
1	B	1358	GLN
1	B	1401	THR
1	B	1421	GLN
1	B	1468	TYR

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Mol	Chain	Res	Type
1	B	1471	GLU
1	B	1488	VAL
1	B	1508	ILE
1	B	1544	ILE
1	B	1551	LEU
1	B	1564	ILE
1	B	1618	LEU
1	B	1651	THR
1	B	1662	ARG
1	B	1672	GLN
1	B	1673	PHE
1	B	1745	ASP
1	B	2059	ARG
1	B	2067	LEU
1	B	2070	LEU
1	B	2129	PRO
1	B	2192	THR
1	B	2196	VAL
1	B	2209	LEU
1	B	2294	SER
1	B	2297	ARG
1	B	2299	MET
1	B	2303	ASP
1	B	2306	TYR
1	B	2395	THR
1	B	2401	ILE
1	B	2428	PRO
1	B	2436	PRO
1	B	2438	PRO
1	B	2439	PRO
1	B	2444	PRO
1	B	2446	PRO
1	B	2448	PRO
1	B	2620	THR
1	B	2692	MET
1	B	2742	THR
1	B	2784	THR
1	B	2800	PHE
1	B	2802	ARG
1	B	2809	LEU
1	B	2827	LEU
1	B	2861	LEU

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Mol	Chain	Res	Type
1	B	2871	THR
1	B	2879	LEU
1	B	2894	THR
1	B	2916	ARG
1	B	2930	LEU
1	B	2935	LYS
1	B	2962	ASP
1	B	3001	HIS
1	B	3019	ASP
1	B	3076	SER
1	B	3077	THR
1	B	3080	ARG
1	C	90	LEU
1	C	208	VAL
1	C	209	SER
1	C	232	VAL
1	C	233	LEU
1	C	248	ILE
1	C	251	THR
1	C	342	GLU
1	C	344	HIS
1	C	358	ASP
1	C	361	THR
1	C	389	THR
1	C	390	VAL
1	C	400	TRP
1	C	409	LYS
1	C	424	LEU
1	C	427	ARG
1	C	439	THR
1	C	456	GLU
1	C	517	ILE
1	C	544	ILE
1	C	580	ARG
1	C	584	HIS
1	C	595	LEU
1	C	606	ASN
1	C	621	SER
1	C	638	MET
1	C	644	LEU
1	C	654	GLU
1	C	694	ASP

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Mol	Chain	Res	Type
1	C	696	HIS
1	C	699	ASP
1	C	791	GLU
1	C	857	VAL
1	C	930	PRO
1	C	990	PRO
1	C	1009	PRO
1	C	1021	LEU
1	C	1096	THR
1	C	1105	ARG
1	C	1127	GLU
1	C	1162	THR
1	C	1206	PRO
1	C	1221	PRO
1	C	1253	ARG
1	C	1358	GLN
1	C	1421	GLN
1	C	1468	TYR
1	C	1471	GLU
1	C	1488	VAL
1	C	1508	ILE
1	C	1544	ILE
1	C	1551	LEU
1	C	1564	ILE
1	C	1618	LEU
1	C	1651	THR
1	C	1662	ARG
1	C	1672	GLN
1	C	1673	PHE
1	C	1745	ASP
1	C	2059	ARG
1	C	2067	LEU
1	C	2070	LEU
1	C	2129	PRO
1	C	2192	THR
1	C	2196	VAL
1	C	2209	LEU
1	C	2294	SER
1	C	2297	ARG
1	C	2299	MET
1	C	2303	ASP
1	C	2306	TYR

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Mol	Chain	Res	Type
1	C	2395	THR
1	C	2401	ILE
1	C	2428	PRO
1	C	2436	PRO
1	C	2438	PRO
1	C	2439	PRO
1	C	2444	PRO
1	C	2446	PRO
1	C	2448	PRO
1	C	2620	THR
1	C	2692	MET
1	C	2742	THR
1	C	2784	THR
1	C	2800	PHE
1	C	2802	ARG
1	C	2809	LEU
1	C	2827	LEU
1	C	2861	LEU
1	C	2871	THR
1	C	2879	LEU
1	C	2894	THR
1	C	2916	ARG
1	C	2930	LEU
1	C	2935	LYS
1	C	2962	ASP
1	C	3001	HIS
1	C	3019	ASP
1	C	3076	SER
1	C	3077	THR
1	C	3080	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (136) such sidechains are listed below:

Mol	Chain	Res	Type
1	D	486	GLN
1	D	540	ASN
1	D	575	HIS
1	D	585	HIS
1	D	606	ASN
1	D	1057	ASN
1	D	1134	HIS
1	D	1276	GLN

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Mol	Chain	Res	Type
1	D	1277	HIS
1	D	1355	GLN
1	D	1582	HIS
1	D	1617	ASN
1	D	1672	GLN
1	D	2288	HIS
1	D	2296	ASN
1	D	2334	HIS
1	D	2349	ASN
1	D	2651	ASN
1	D	2815	GLN
1	D	2850	HIS
1	D	2927	GLN
1	D	2942	GLN
1	D	2973	HIS
1	E	386	ASN
1	E	486	GLN
1	E	540	ASN
1	E	585	HIS
1	E	1057	ASN
1	E	1134	HIS
1	E	1276	GLN
1	E	1277	HIS
1	E	1355	GLN
1	E	1534	ASN
1	E	1582	HIS
1	E	1617	ASN
1	E	1672	GLN
1	E	2288	HIS
1	E	2334	HIS
1	E	2349	ASN
1	E	2651	ASN
1	E	2815	GLN
1	E	2850	HIS
1	E	2927	GLN
1	E	2942	GLN
1	E	2973	HIS
1	F	386	ASN
1	F	486	GLN
1	F	540	ASN
1	F	575	HIS
1	F	585	HIS

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Mol	Chain	Res	Type
1	F	682	ASN
1	F	1057	ASN
1	F	1134	HIS
1	F	1276	GLN
1	F	1277	HIS
1	F	1355	GLN
1	F	1394	HIS
1	F	1582	HIS
1	F	1617	ASN
1	F	1672	GLN
1	F	2288	HIS
1	F	2334	HIS
1	F	2349	ASN
1	F	2651	ASN
1	F	2815	GLN
1	F	2850	HIS
1	F	2927	GLN
1	F	2942	GLN
1	F	2973	HIS
1	A	386	ASN
1	A	486	GLN
1	A	540	ASN
1	A	575	HIS
1	A	585	HIS
1	A	1057	ASN
1	A	1134	HIS
1	A	1276	GLN
1	A	1277	HIS
1	A	1355	GLN
1	A	1582	HIS
1	A	1617	ASN
1	A	1672	GLN
1	A	2288	HIS
1	A	2334	HIS
1	A	2349	ASN
1	A	2651	ASN
1	A	2815	GLN
1	A	2850	HIS
1	A	2927	GLN
1	A	2942	GLN
1	A	2973	HIS
1	B	386	ASN

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

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Mol	Chain	Res	Type
1	C	2942	GLN
1	C	2973	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

6 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
2	FMN	F	4000	-	33,33,33	1.06	2 (6%)	48,50,50	1.25	7 (14%)
2	FMN	B	4000	-	33,33,33	1.08	2 (6%)	48,50,50	1.26	8 (16%)
2	FMN	A	4000	-	33,33,33	1.07	2 (6%)	48,50,50	1.26	8 (16%)
2	FMN	E	4000	-	33,33,33	1.07	2 (6%)	48,50,50	1.27	7 (14%)
2	FMN	C	4000	-	33,33,33	1.07	2 (6%)	48,50,50	1.26	7 (14%)
2	FMN	D	4000	-	33,33,33	1.07	2 (6%)	48,50,50	1.27	8 (16%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns.

'-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	FMN	F	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	B	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	A	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	E	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	C	4000	-	-	5/18/18/18	0/3/3/3
2	FMN	D	4000	-	-	5/18/18/18	0/3/3/3

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	4000	FMN	C4A-N5	4.16	1.38	1.30
2	A	4000	FMN	C4A-N5	4.11	1.38	1.30
2	E	4000	FMN	C4A-N5	4.11	1.38	1.30
2	D	4000	FMN	C4A-N5	4.08	1.38	1.30
2	F	4000	FMN	C4A-N5	4.07	1.38	1.30
2	C	4000	FMN	C4A-N5	4.07	1.38	1.30
2	C	4000	FMN	C10-N1	2.29	1.37	1.33
2	E	4000	FMN	C10-N1	2.25	1.37	1.33
2	B	4000	FMN	C10-N1	2.24	1.37	1.33
2	D	4000	FMN	C10-N1	2.23	1.37	1.33
2	A	4000	FMN	C10-N1	2.21	1.37	1.33
2	F	4000	FMN	C10-N1	2.18	1.37	1.33

All (45) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	4000	FMN	C4-N3-C2	-3.02	120.06	125.64
2	E	4000	FMN	C4-N3-C2	-2.99	120.11	125.64
2	F	4000	FMN	C4-N3-C2	-2.98	120.13	125.64
2	E	4000	FMN	C4A-C10-N10	2.98	120.83	116.48
2	D	4000	FMN	C4-N3-C2	-2.96	120.17	125.64
2	B	4000	FMN	C4-N3-C2	-2.96	120.17	125.64
2	C	4000	FMN	C4A-C10-N10	2.96	120.80	116.48
2	A	4000	FMN	C4-N3-C2	-2.96	120.18	125.64
2	B	4000	FMN	C4A-C10-N10	2.95	120.80	116.48
2	D	4000	FMN	C4A-C10-N10	2.93	120.77	116.48
2	A	4000	FMN	C4A-C10-N10	2.91	120.74	116.48
2	F	4000	FMN	C4A-C10-N10	2.88	120.69	116.48
2	C	4000	FMN	C4A-C4-N3	2.64	119.89	113.19
2	B	4000	FMN	C4A-C4-N3	2.61	119.83	113.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	E	4000	FMN	C4A-C4-N3	2.61	119.82	113.19
2	E	4000	FMN	C10-C4A-N5	-2.61	119.32	124.86
2	F	4000	FMN	C4A-C4-N3	2.60	119.78	113.19
2	D	4000	FMN	C4A-C4-N3	2.59	119.78	113.19
2	A	4000	FMN	C4A-C4-N3	2.59	119.78	113.19
2	D	4000	FMN	C10-C4A-N5	-2.59	119.37	124.86
2	B	4000	FMN	C10-C4A-N5	-2.57	119.40	124.86
2	C	4000	FMN	C10-C4A-N5	-2.56	119.43	124.86
2	A	4000	FMN	C10-C4A-N5	-2.56	119.43	124.86
2	F	4000	FMN	C10-C4A-N5	-2.52	119.51	124.86
2	E	4000	FMN	O4-C4-C4A	-2.43	120.15	126.60
2	D	4000	FMN	O4-C4-C4A	-2.43	120.16	126.60
2	F	4000	FMN	O4-C4-C4A	-2.43	120.16	126.60
2	C	4000	FMN	O4-C4-C4A	-2.42	120.18	126.60
2	B	4000	FMN	O4-C4-C4A	-2.41	120.19	126.60
2	A	4000	FMN	O4-C4-C4A	-2.40	120.24	126.60
2	E	4000	FMN	C4-C4A-N5	2.29	121.49	118.23
2	D	4000	FMN	C4-C4A-N5	2.28	121.48	118.23
2	B	4000	FMN	C4-C4A-N5	2.27	121.47	118.23
2	C	4000	FMN	C4-C4A-N5	2.25	121.43	118.23
2	A	4000	FMN	C4-C4A-N5	2.23	121.41	118.23
2	D	4000	FMN	C9A-C5A-N5	-2.22	120.01	122.43
2	F	4000	FMN	C4-C4A-N5	2.22	121.39	118.23
2	C	4000	FMN	C9A-C5A-N5	-2.19	120.05	122.43
2	F	4000	FMN	C9A-C5A-N5	-2.19	120.05	122.43
2	E	4000	FMN	C9A-C5A-N5	-2.17	120.07	122.43
2	A	4000	FMN	C9A-C5A-N5	-2.17	120.08	122.43
2	B	4000	FMN	C9A-C5A-N5	-2.13	120.12	122.43
2	D	4000	FMN	O2-C2-N1	-2.05	118.44	121.83
2	B	4000	FMN	O2-C2-N1	-2.04	118.45	121.83
2	A	4000	FMN	O2-C2-N1	-2.02	118.48	121.83

There are no chirality outliers.

All (30) torsion outliers are listed below:

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

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

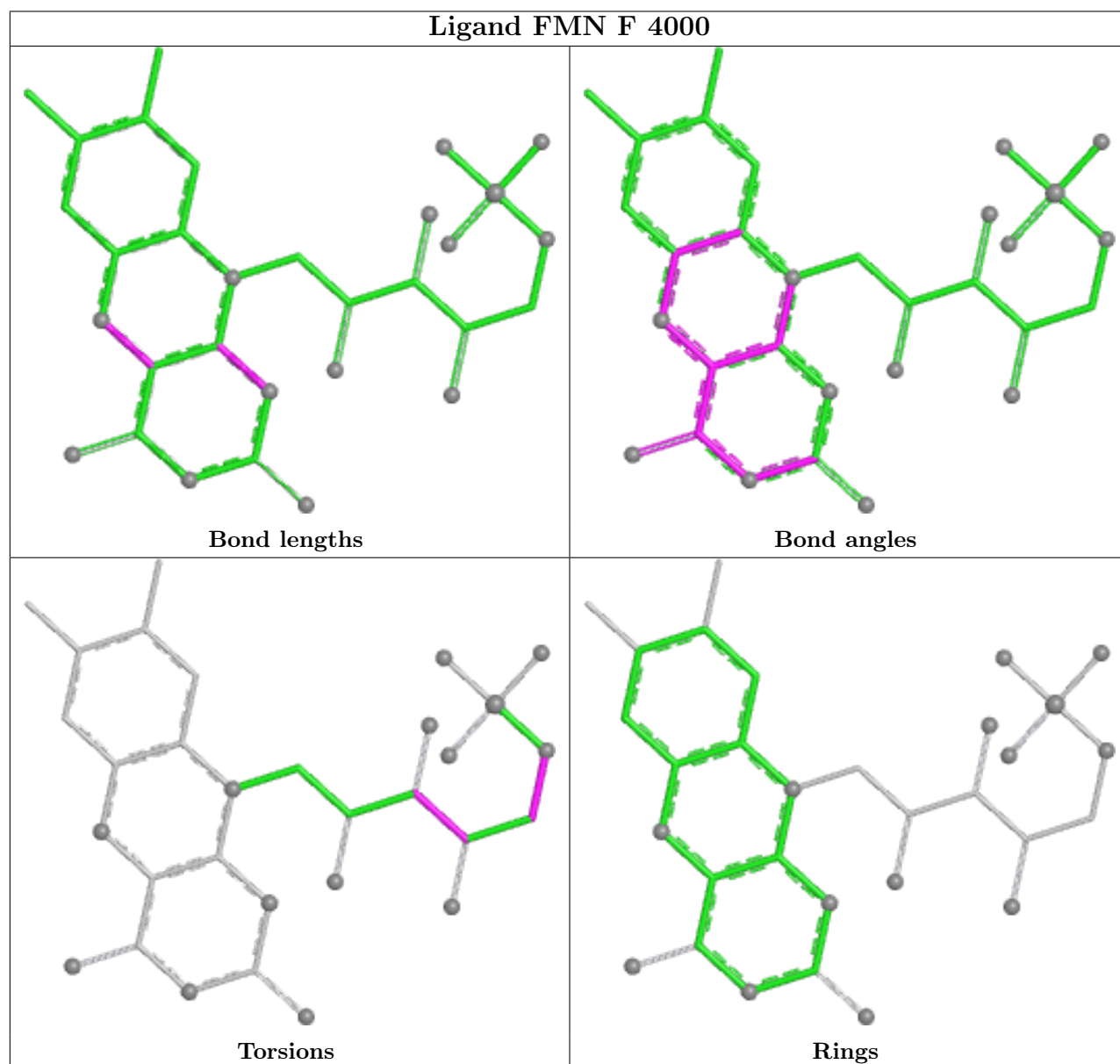
There are no ring outliers.

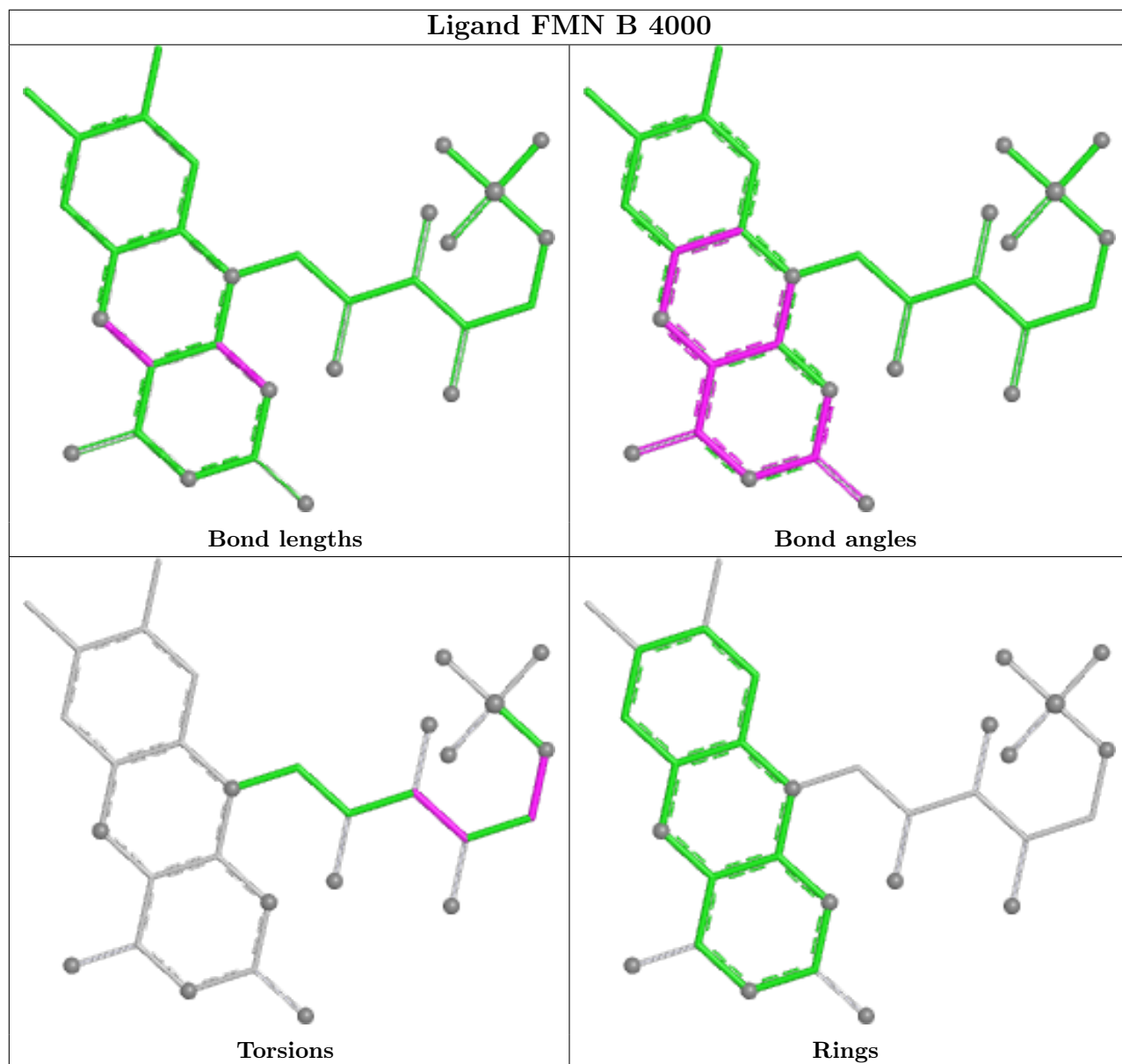
6 monomers are involved in 24 short contacts:

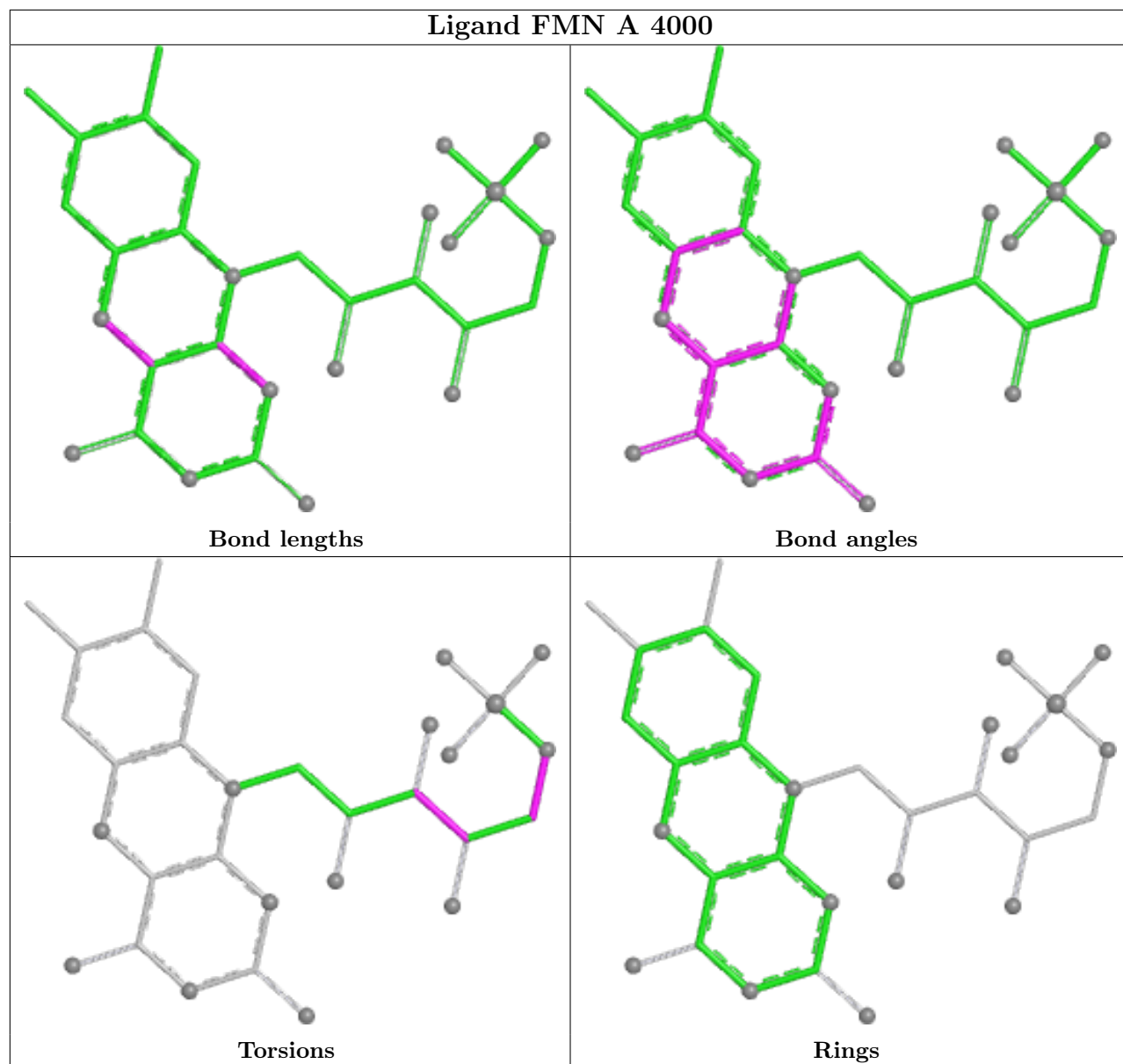
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	F	4000	FMN	4	0
2	B	4000	FMN	4	0
2	A	4000	FMN	4	0
2	E	4000	FMN	4	0
2	C	4000	FMN	4	0
2	D	4000	FMN	4	0

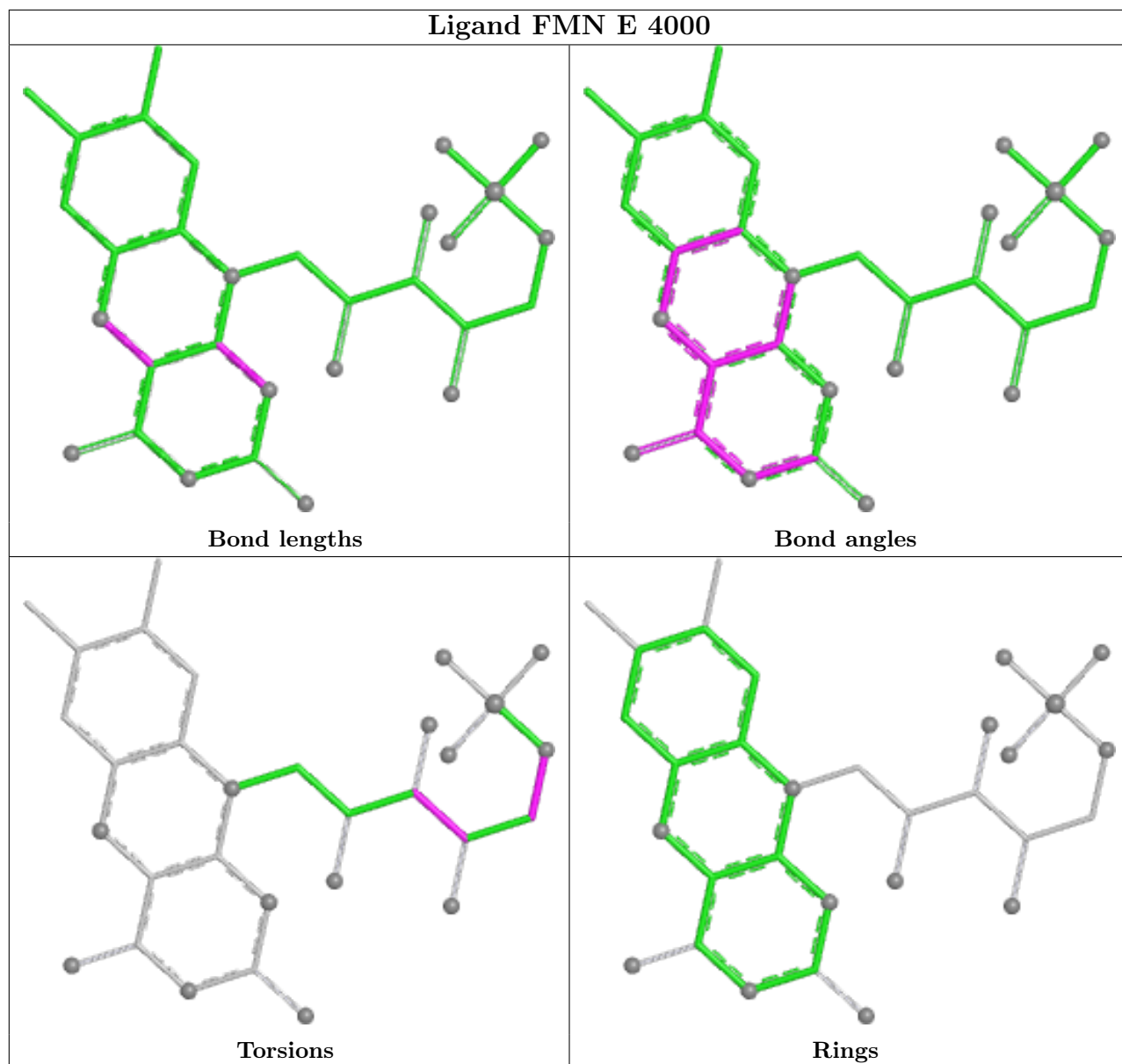
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

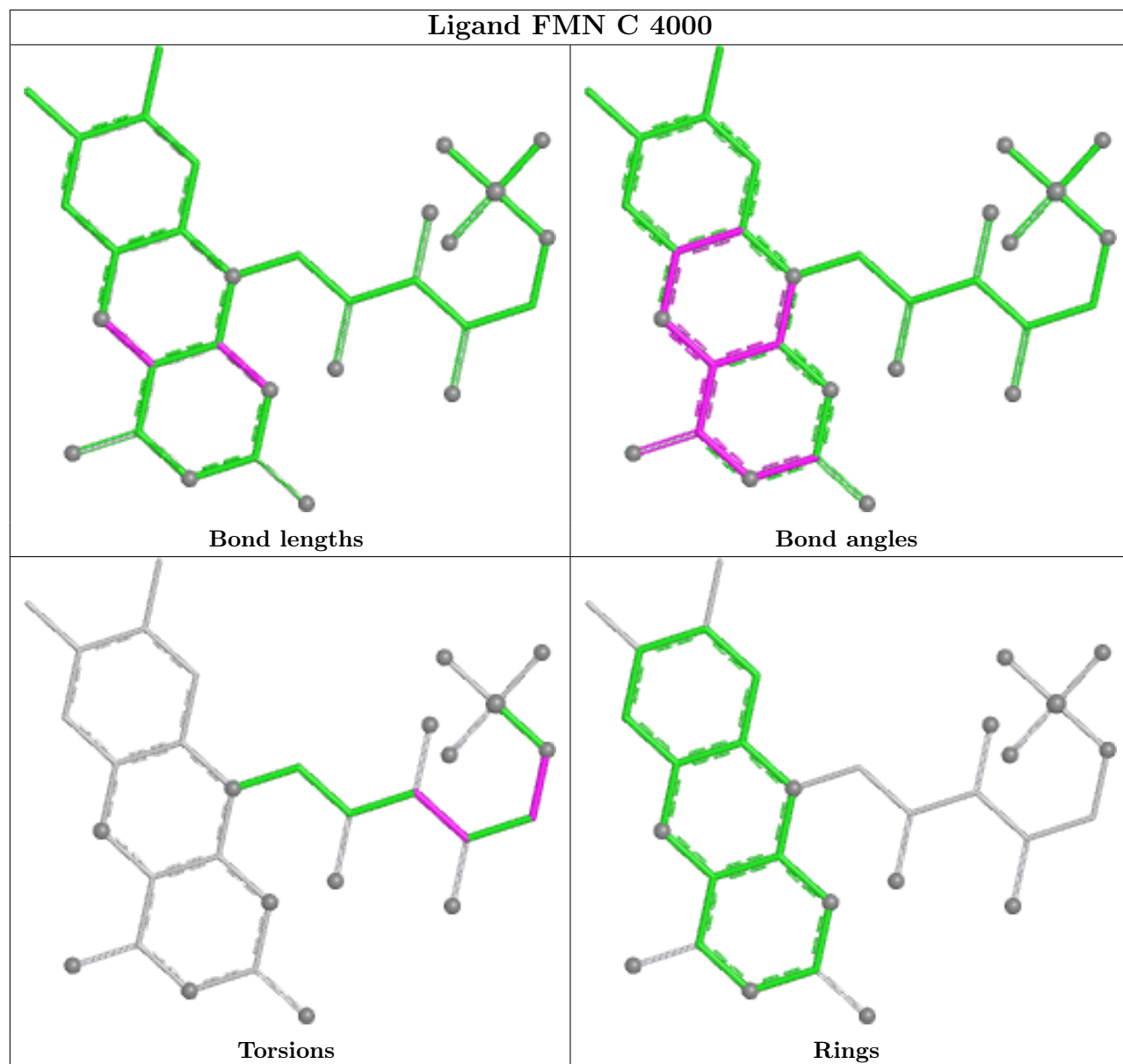
highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified 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.

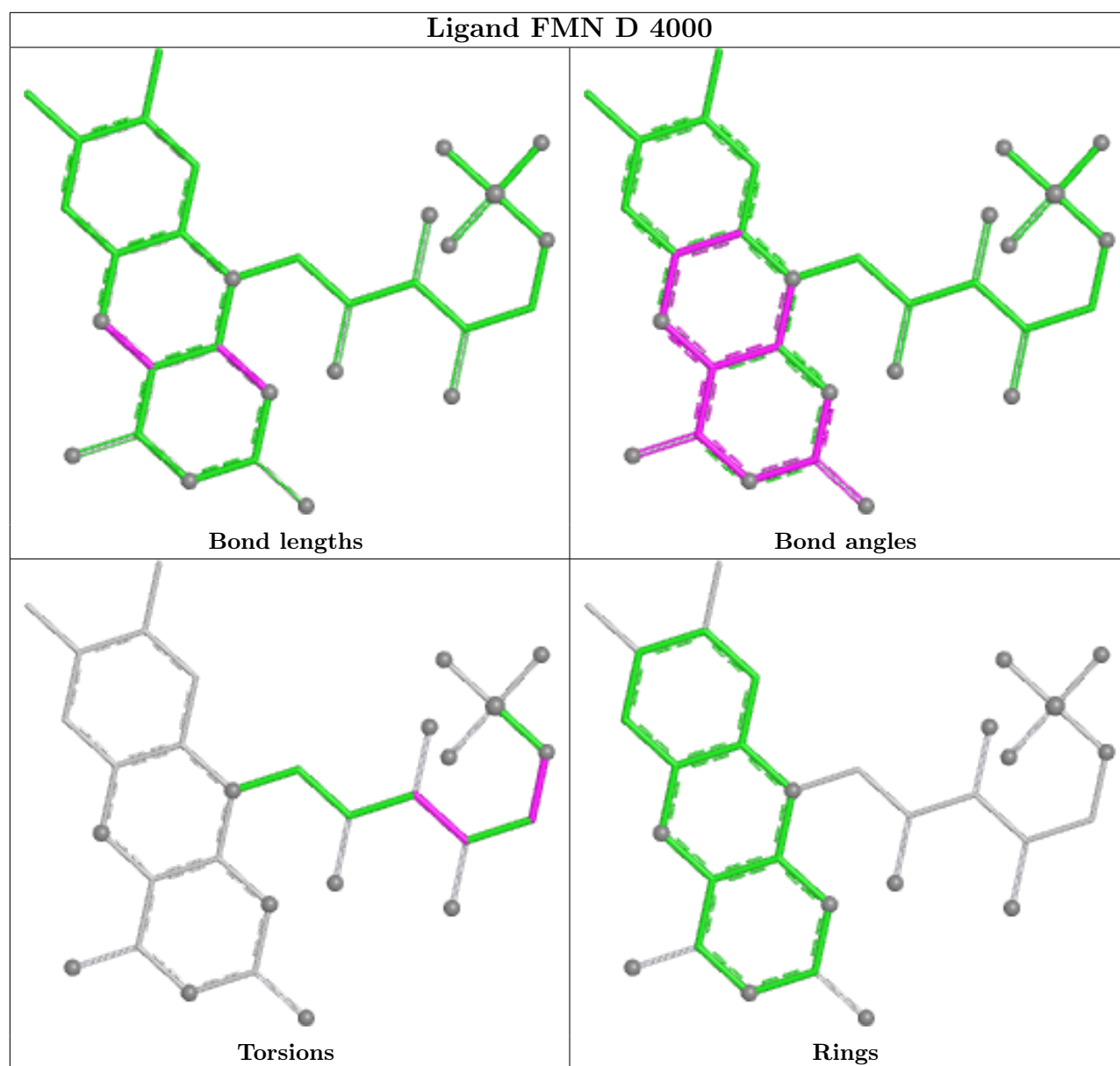












5.7 Other polymers [i](#)

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-2357. These allow visual inspection of the internal detail of the map and identification of artifacts.

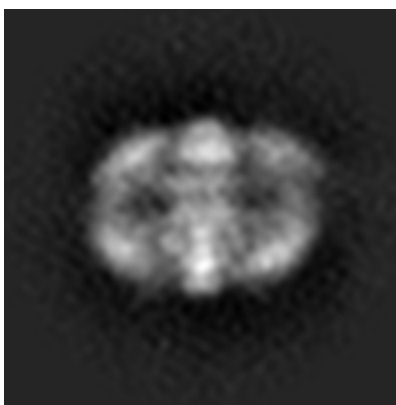
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

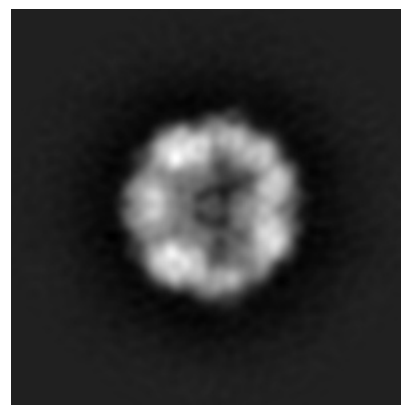
6.1.1 Primary map



X



Y

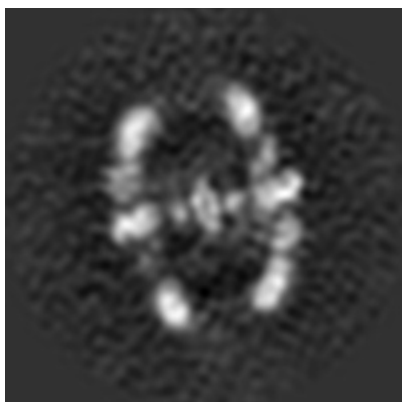


Z

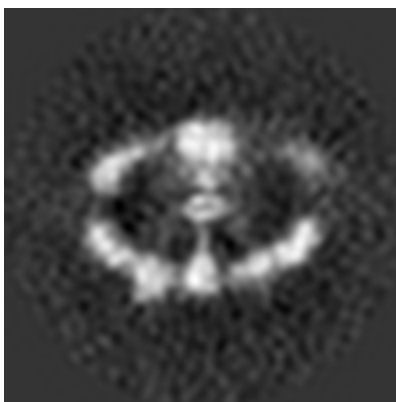
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

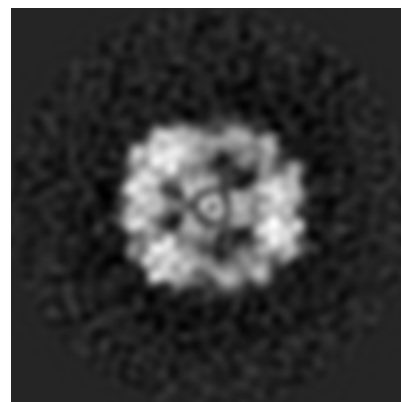
6.2.1 Primary map



X Index: 100



Y Index: 100

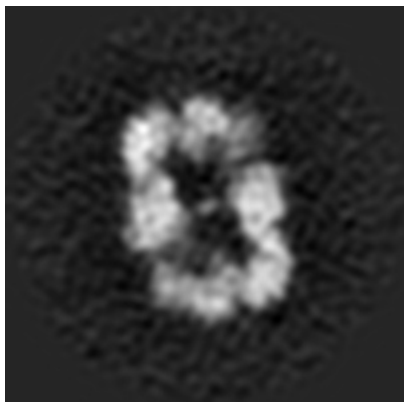


Z Index: 100

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

6.3 Largest variance slices [i](#)

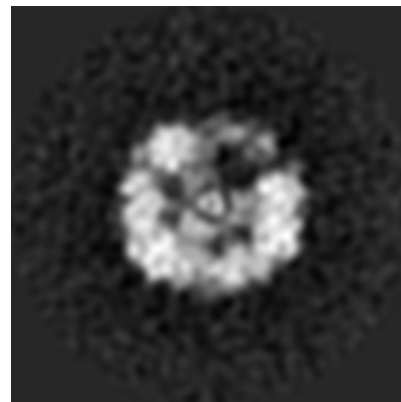
6.3.1 Primary map



X Index: 79



Y Index: 130

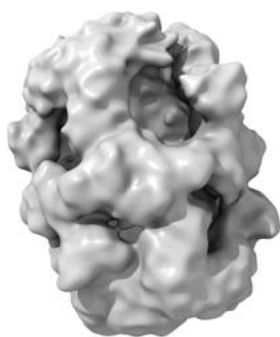


Z Index: 97

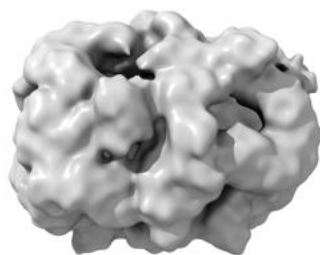
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

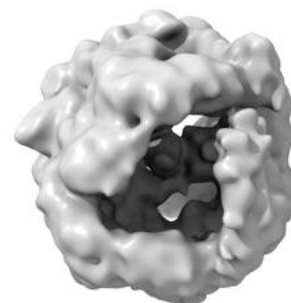
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

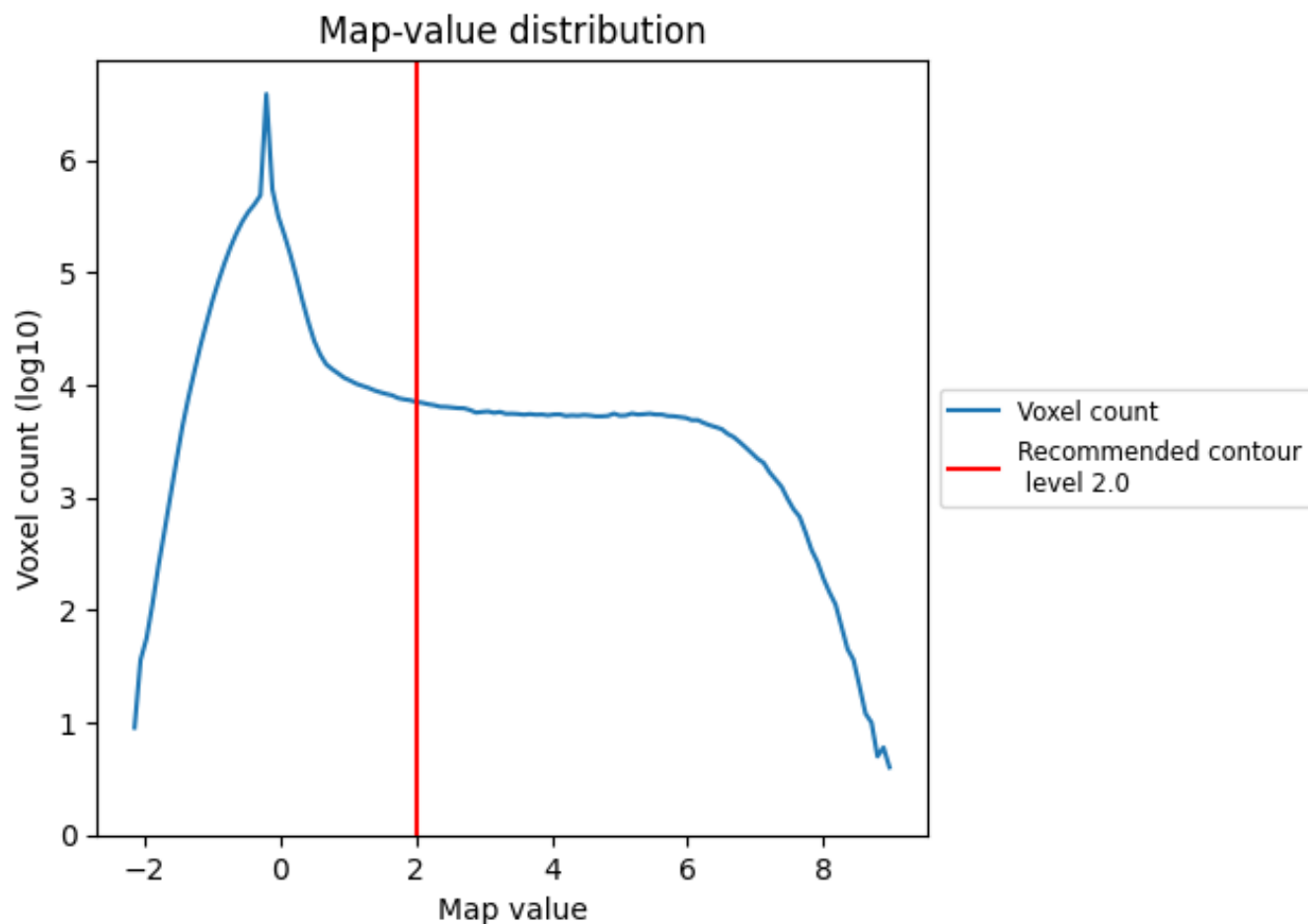
6.5 Mask visualisation

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

7 Map analysis [i](#)

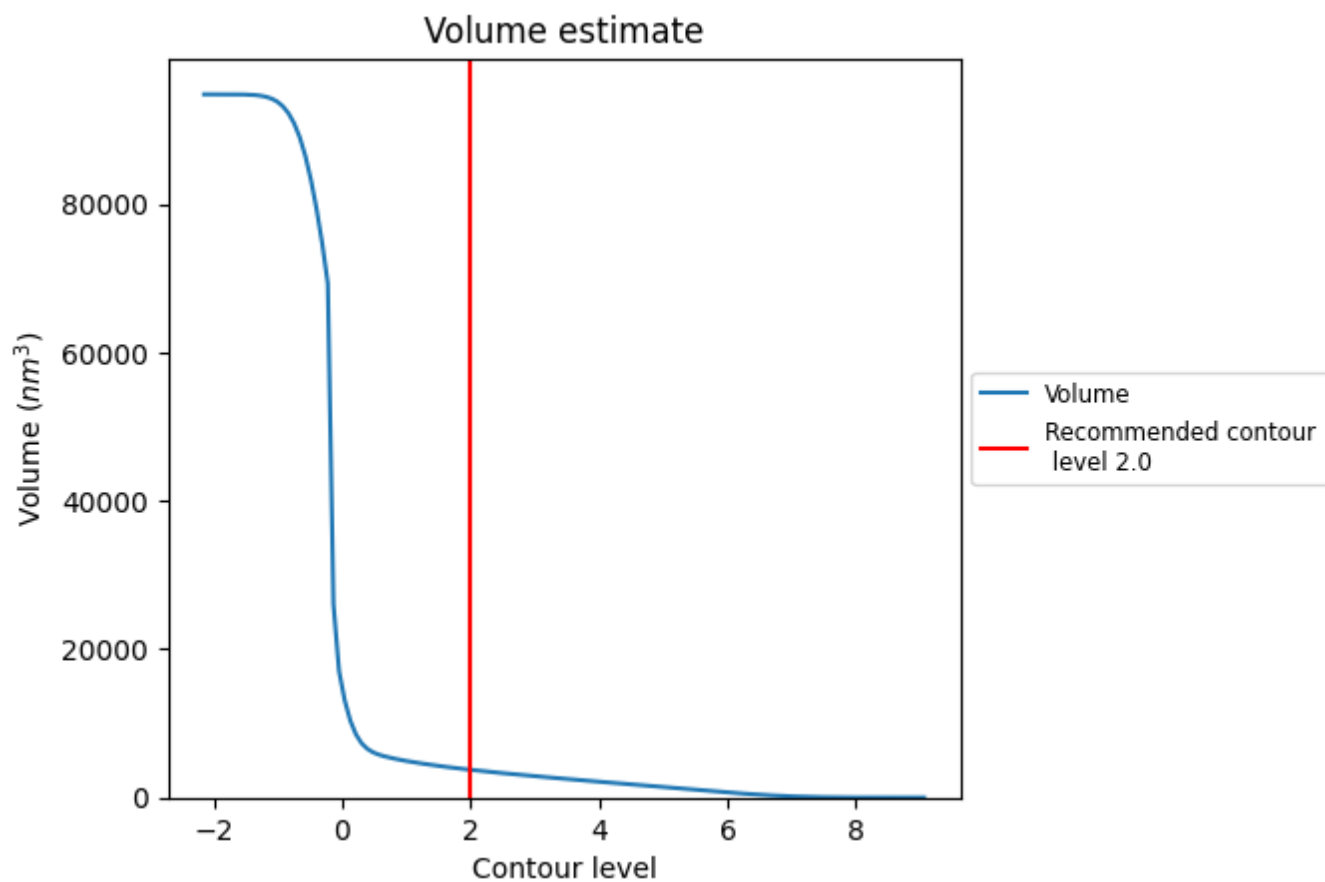
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

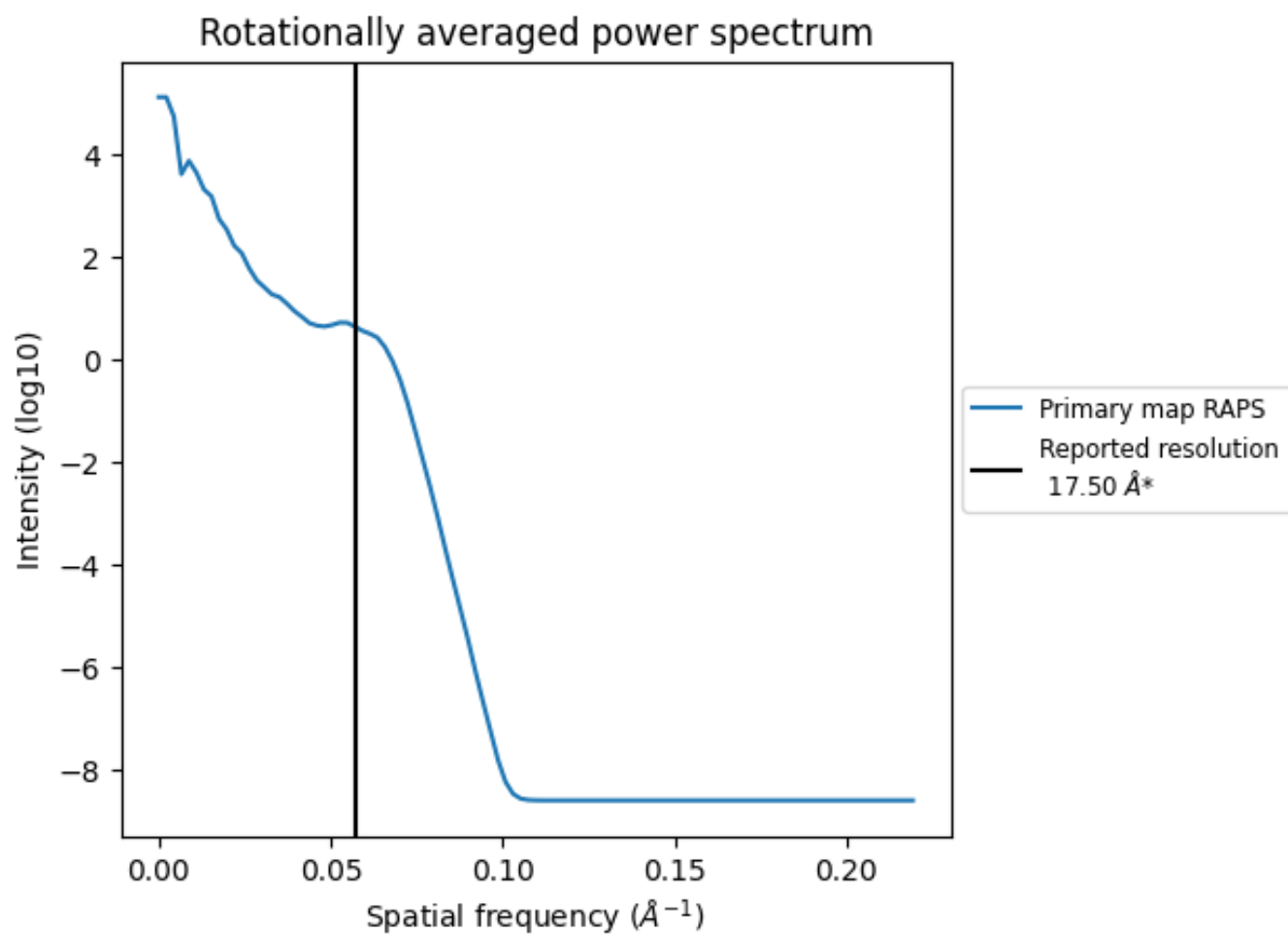
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3745 nm³; this corresponds to an approximate mass of 3383 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 0.057 Å⁻¹

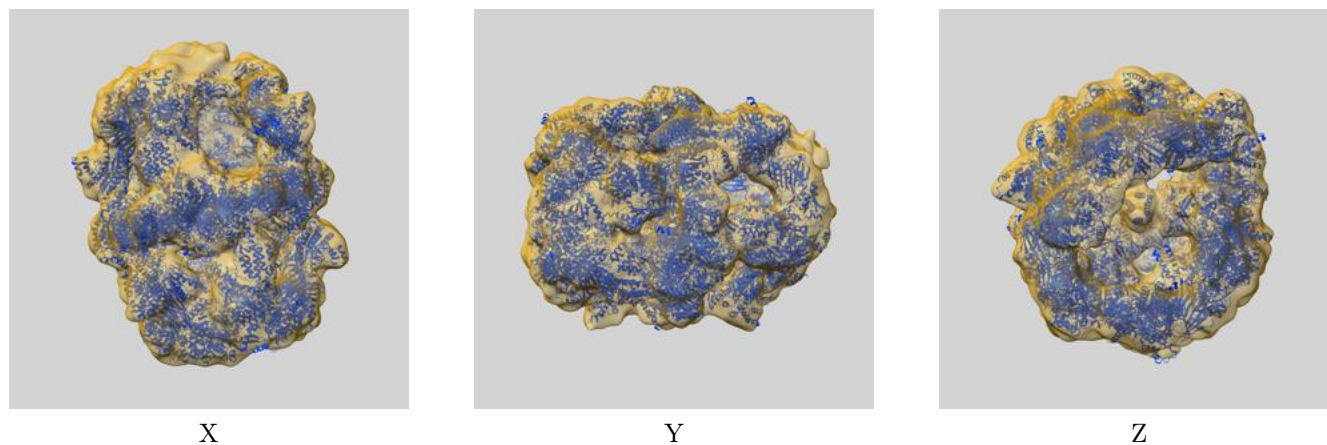
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

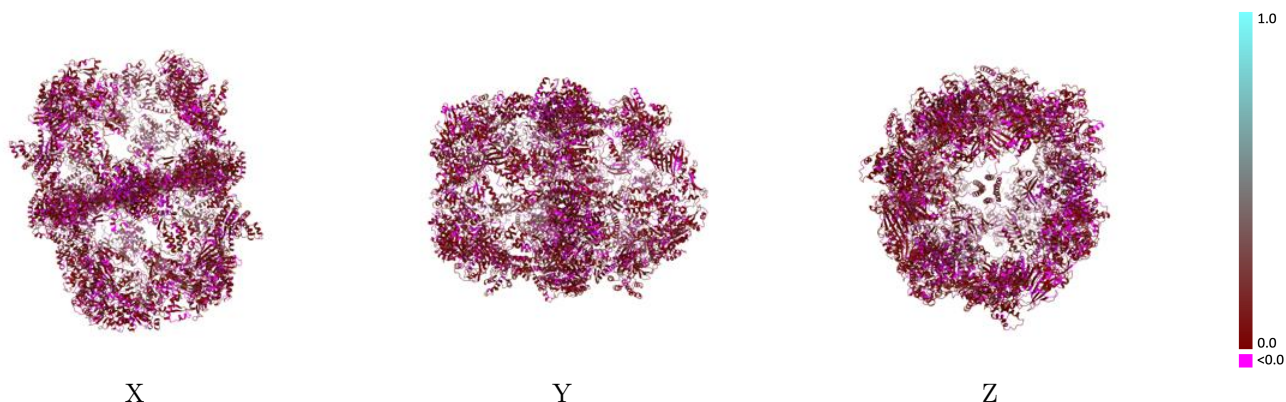
This section contains information regarding the fit between EMDB map EMD-2357 and PDB model 4V8W. Per-residue inclusion information can be found in section [3](#) on page [5](#).

9.1 Map-model overlay [i](#)



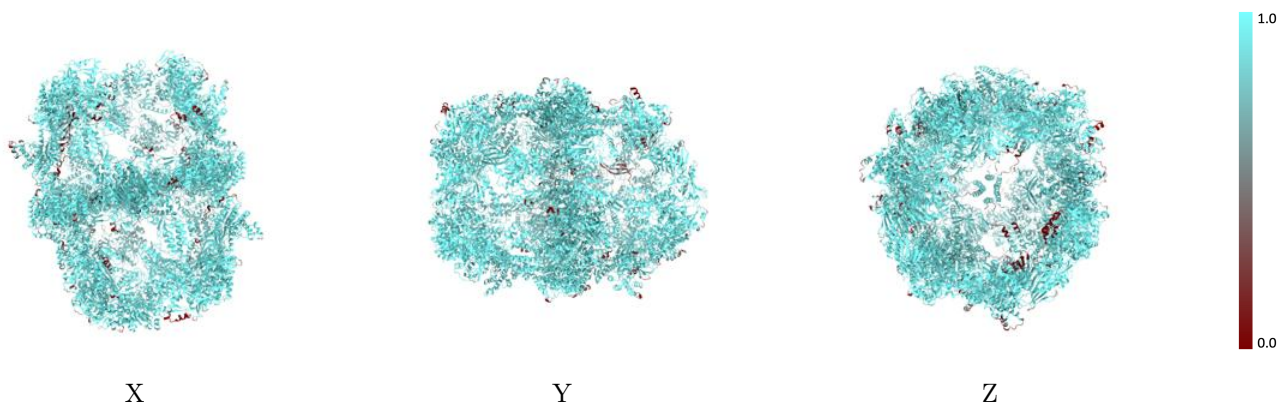
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



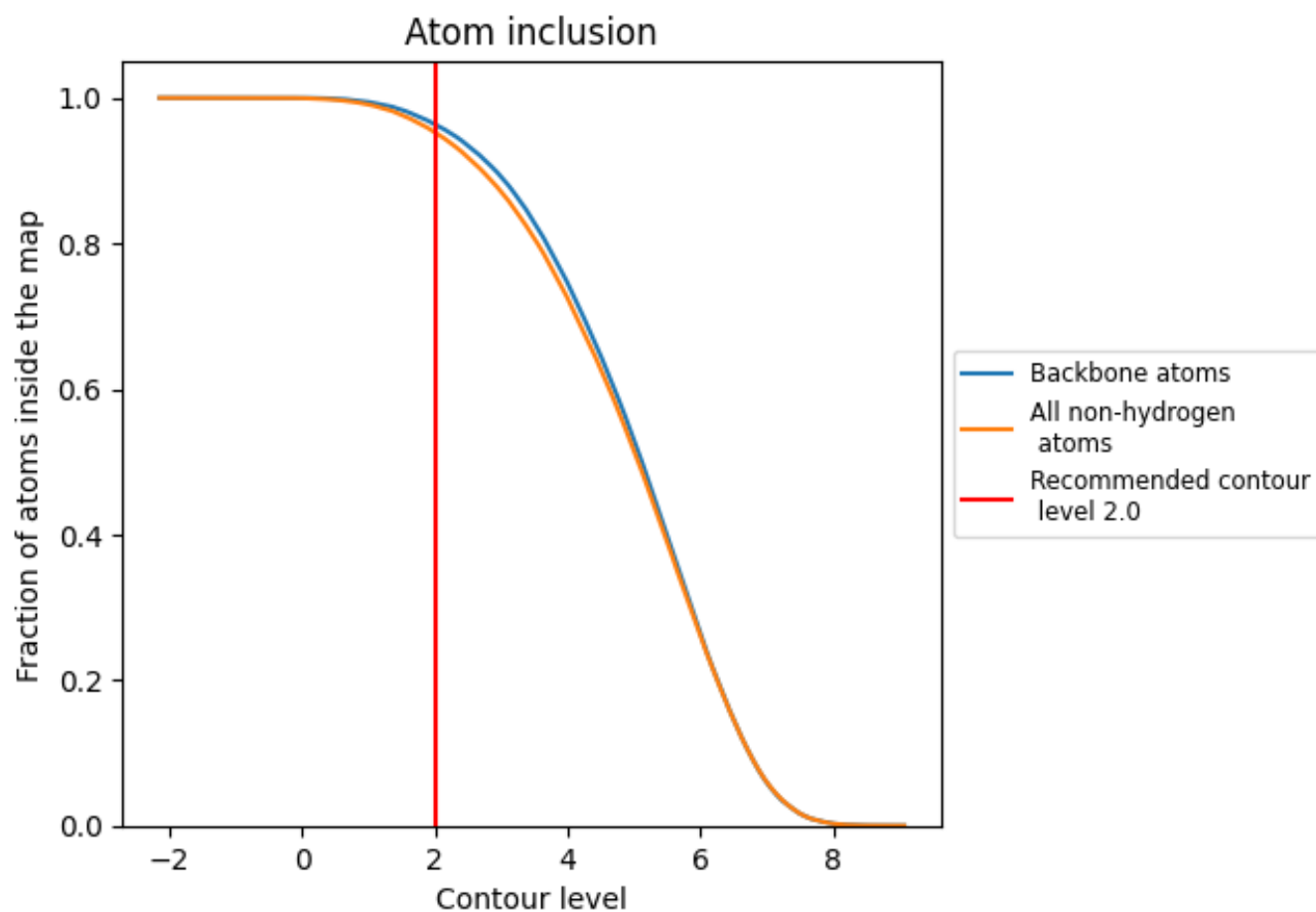
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2.0).















9.4 Atom inclusion [i](#)



At the recommended contour level, 96% of all backbone atoms, 95% 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 (2.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9524	 0.0580
A	 0.9645	 0.0610
B	 0.9636	 0.0600
C	 0.9554	 0.0590
D	 0.9115	 0.0500
E	 0.9663	 0.0610
F	 0.9478	 0.0570

