wwPDB EM Map/Model Validation Report (i)

Apr 10, 2016 – 02:28 PM BST

PDB ID	:	4V8V
EMDB ID:	:	EMD-2358
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	:	20.00 Å(reported)
Based on PDB ID	:	4B3Y

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could
stem from errors in the original structure(s) used in the fitting.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
http://wwpdb.org/validation/2016/EMValidationReportHelp

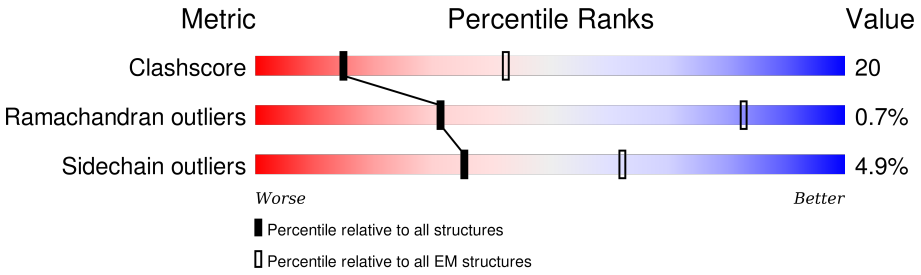
MolProbity	:	4.02b-467
Mogul	:	1.7.1 (RC1), CSD as537be (2016)
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP)	:	trunk27241

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 20.00 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	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Mol	Chain	Length	Quality of chain
1	A	3089	57% 31% • 9%
1	B	3089	57% 31% • 9%
1	C	3089	57% 31% • 9%
1	D	3089	57% 31% • 9%
1	E	3089	57% 31% • 9%
1	F	3089	57% 31% • 9%

2 Entry composition

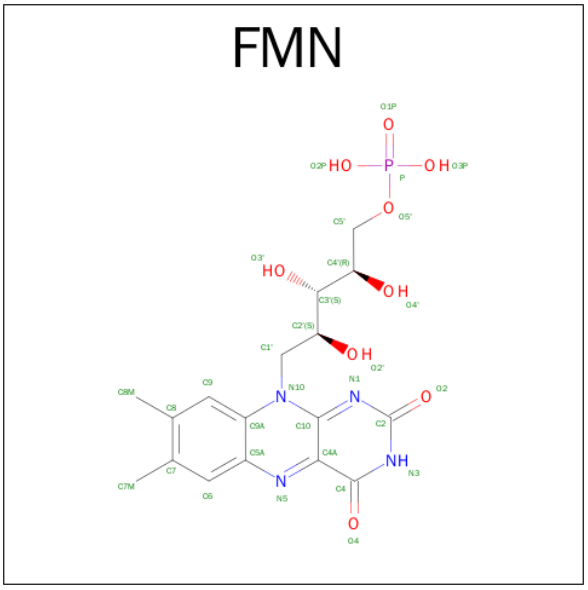
There are 2 unique types of molecules in this entry. The entry contains 125856 atoms, of which 0 are hydrogens and 0 are deuteriums.

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
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		
1	D	2822	Total	C	N	O	S	0	0
			20945	13219	3662	3998	66		
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		

- Molecule 2 is FLAVIN MONONUCLEOTIDE (three-letter code: FMN) (formula: $C_{17}H_{21}N_4O_9P$).



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

Continued on next page...

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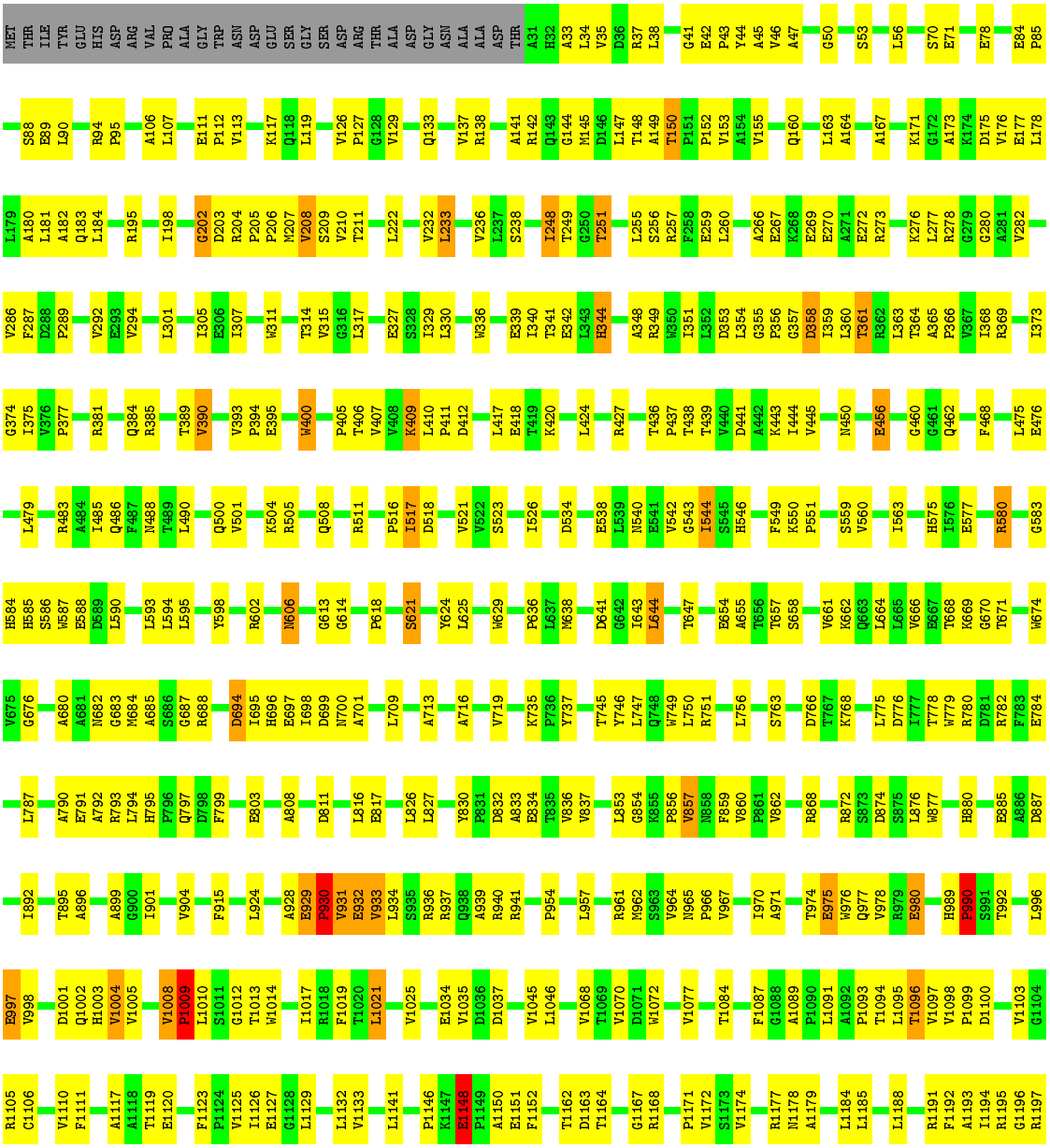
Mol	Chain	Residues	Atoms					AltConf
2	B	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	C	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	D	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	E	1	Total	C	N	O	P	0
			31	17	4	9	1	
2	F	1	Total	C	N	O	P	0
			31	17	4	9	1	

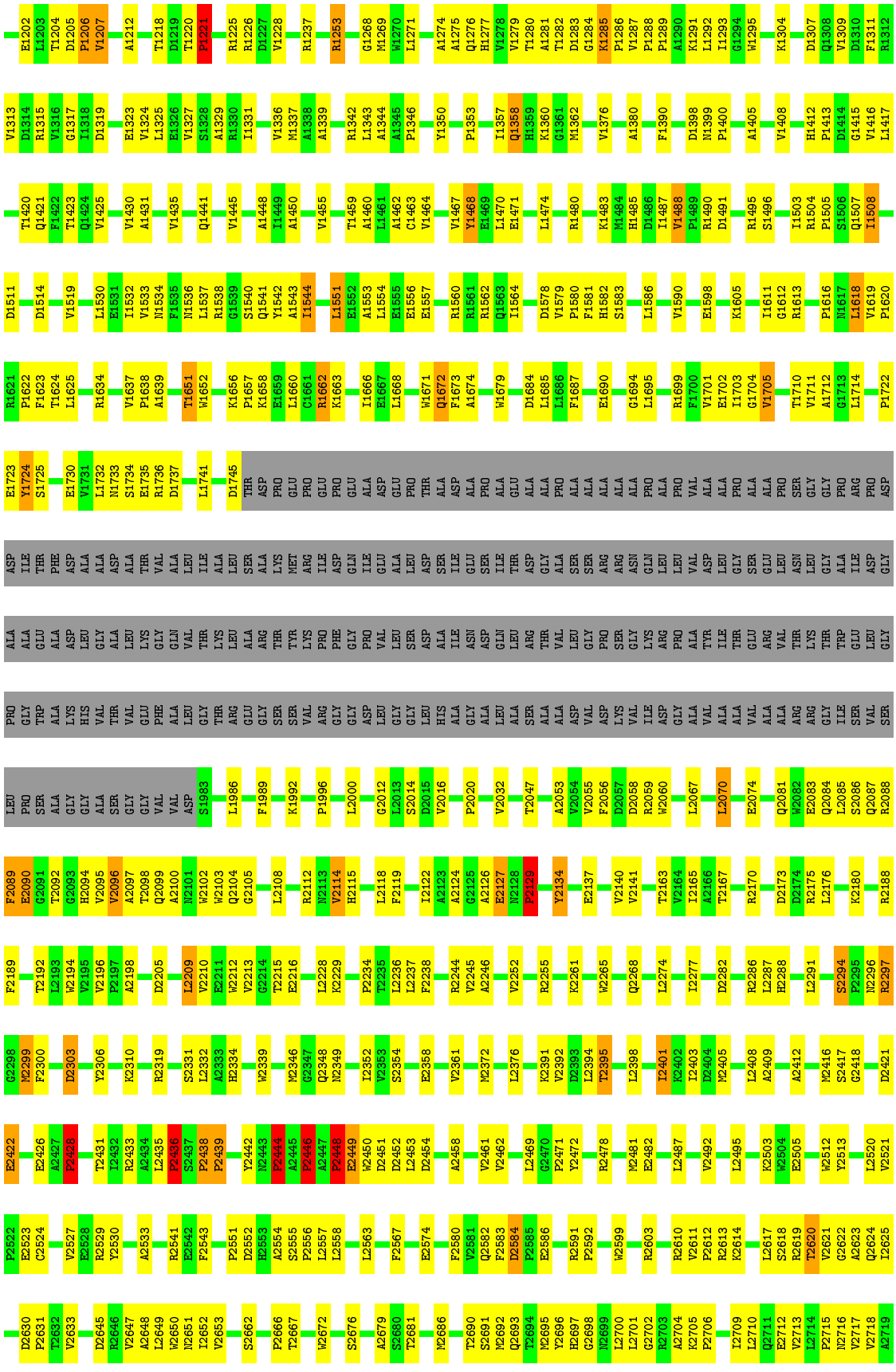
3 Residue-property plots (i)

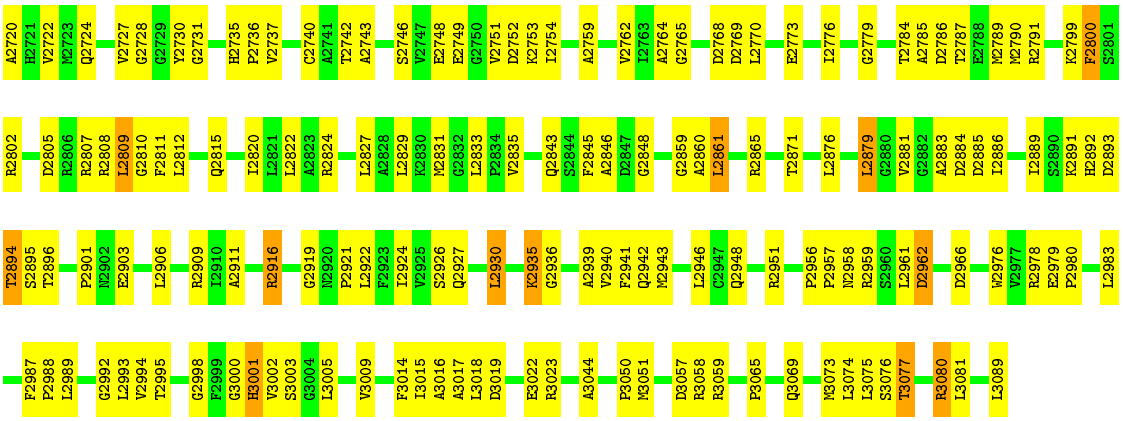
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric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

- Molecule 1: TYPE-I FATTY ACID SYNTHASE

Chain A:

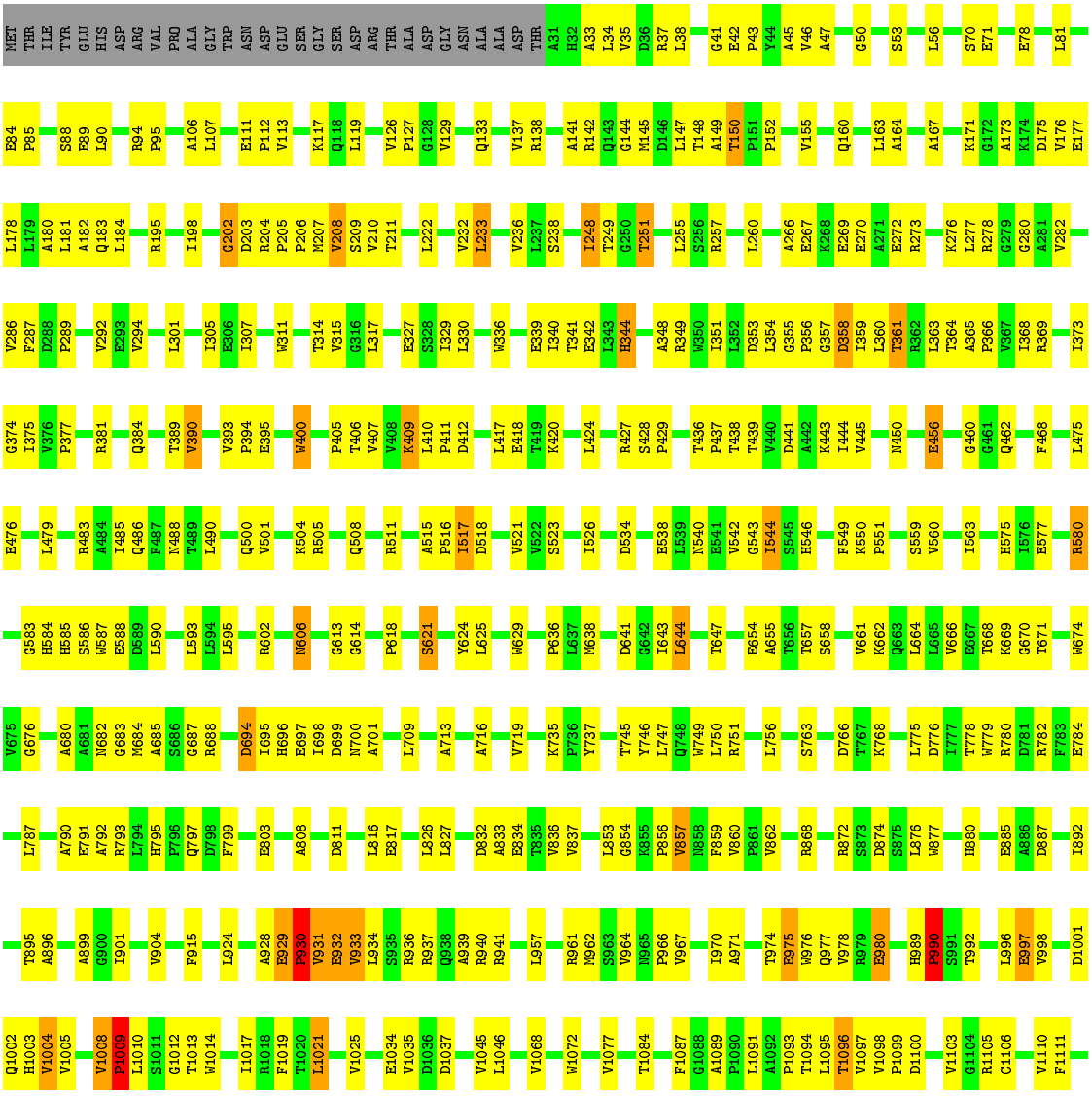


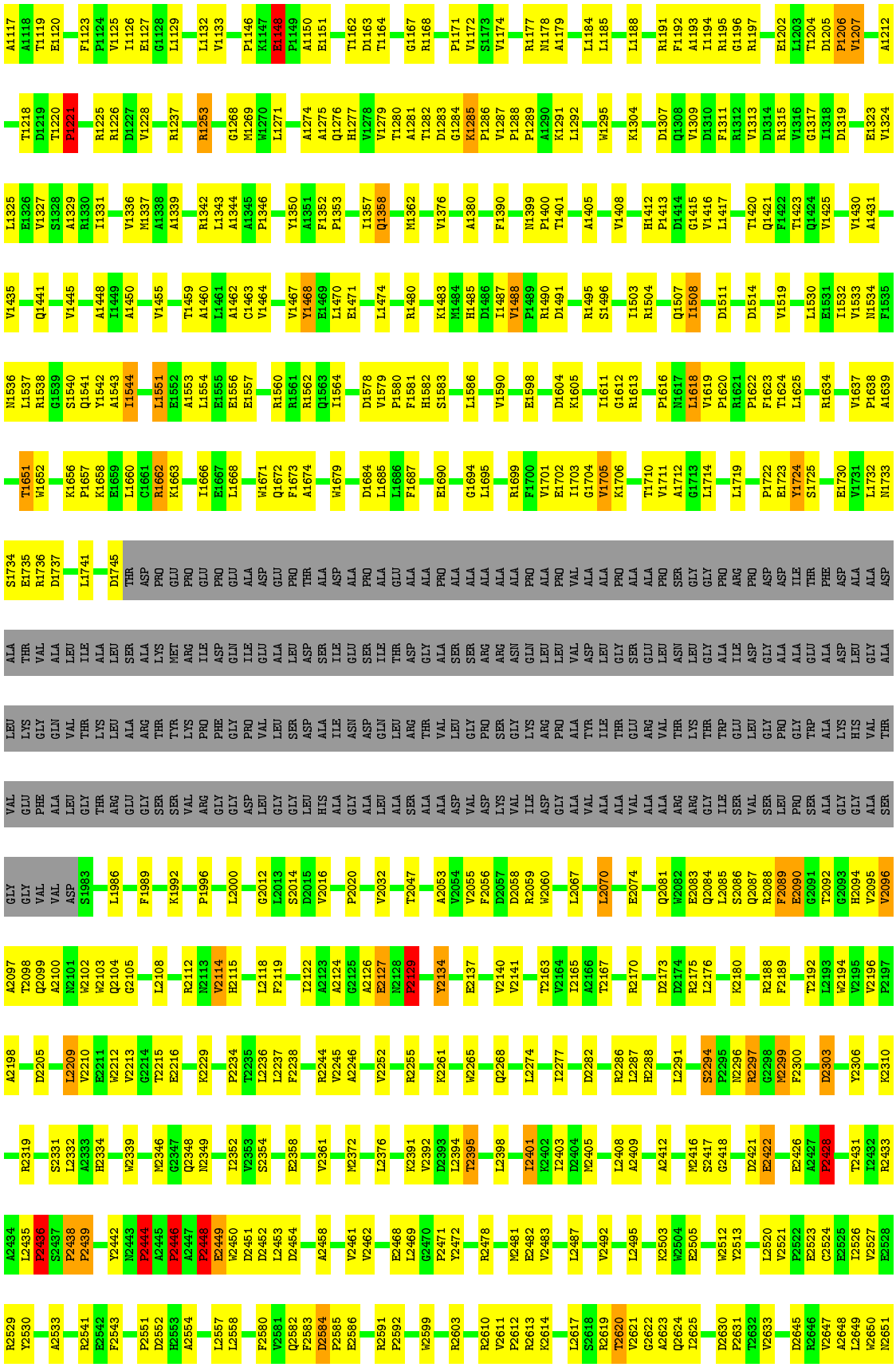


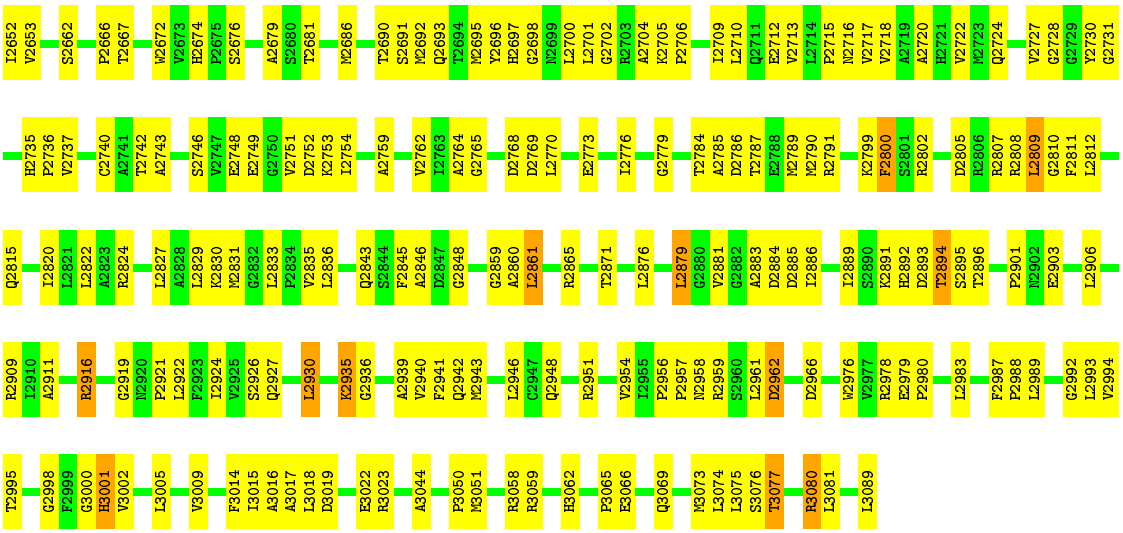


• Molecule 1: TYPE-I FATTY ACID SYNTHASE

Chain B:

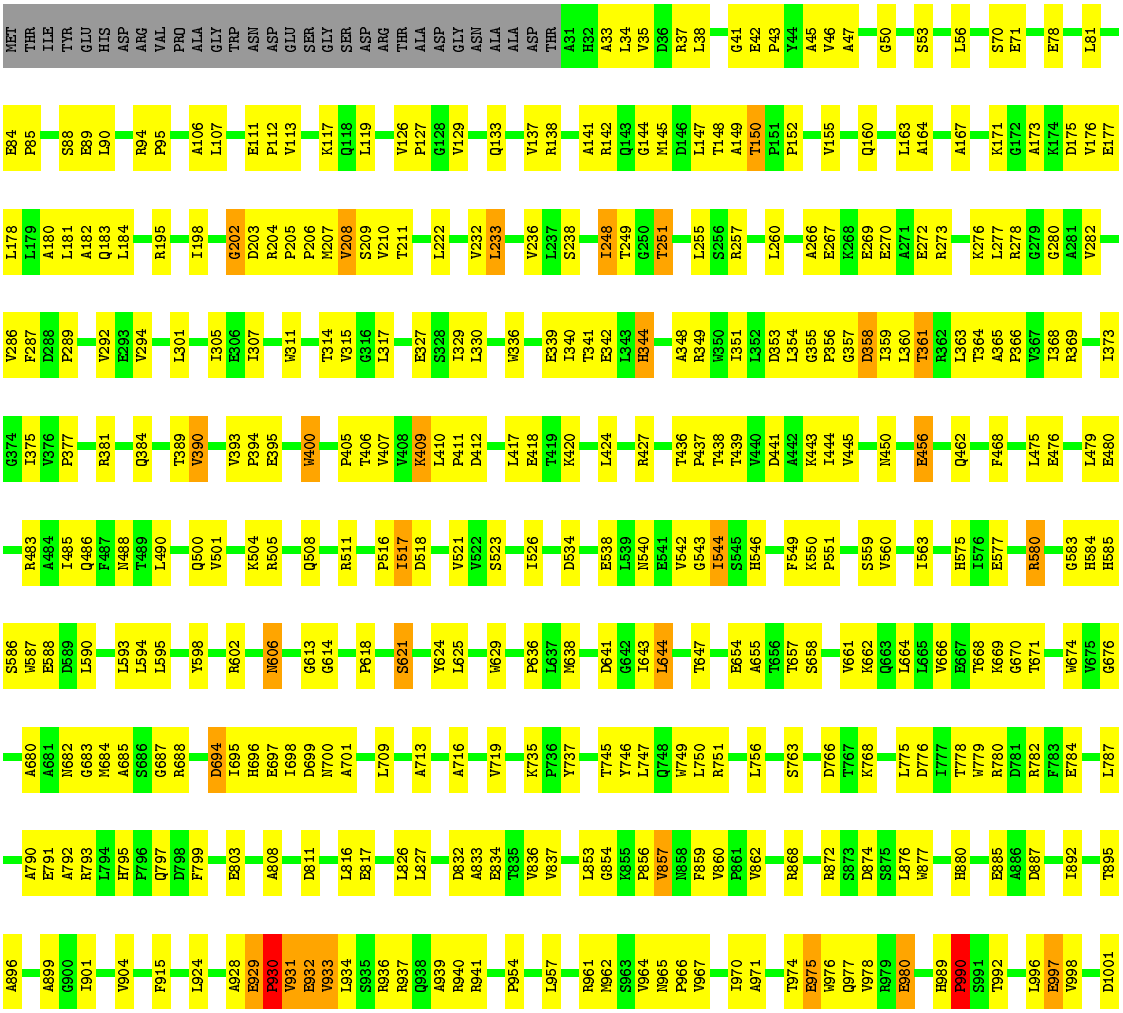


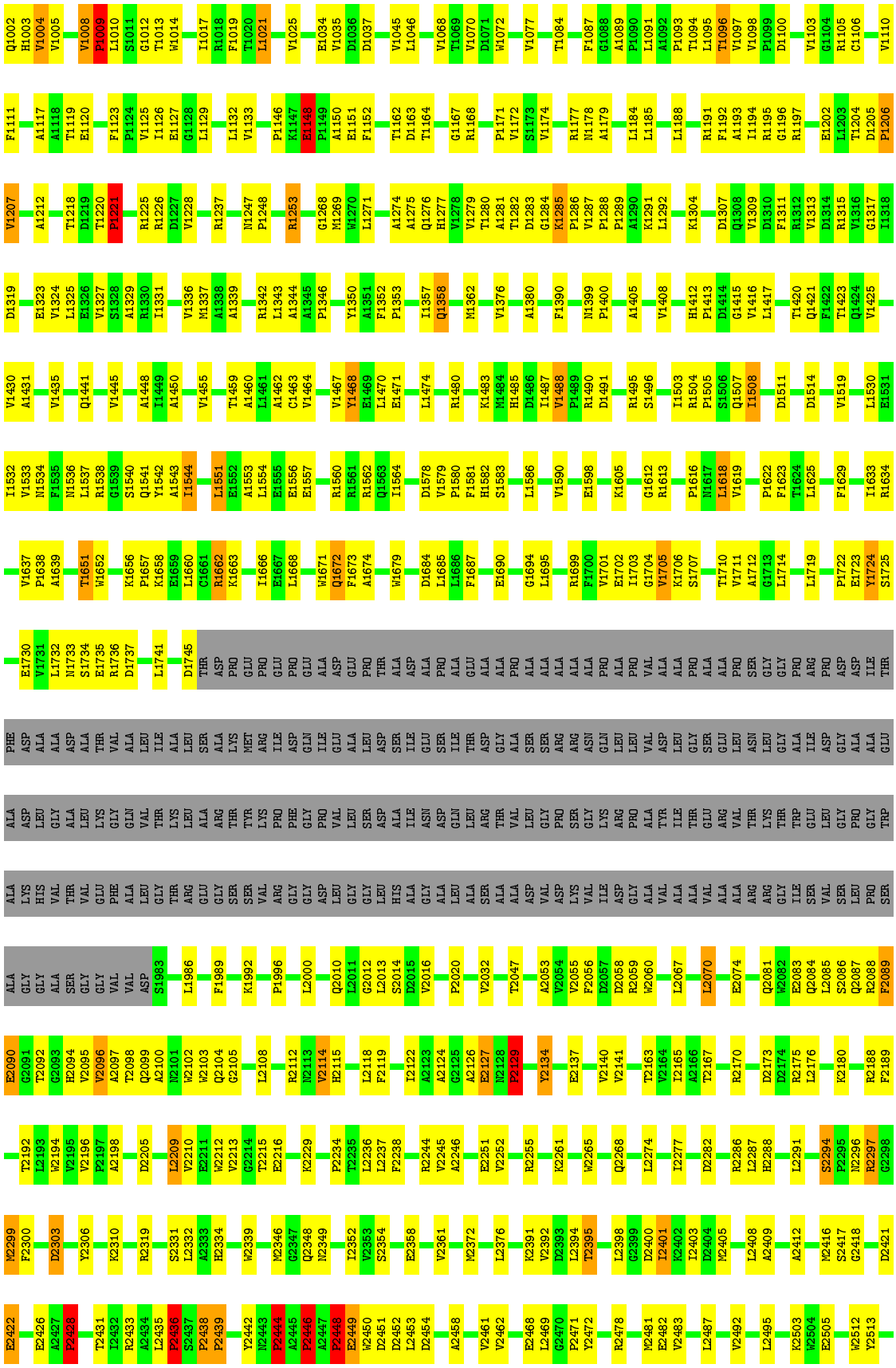


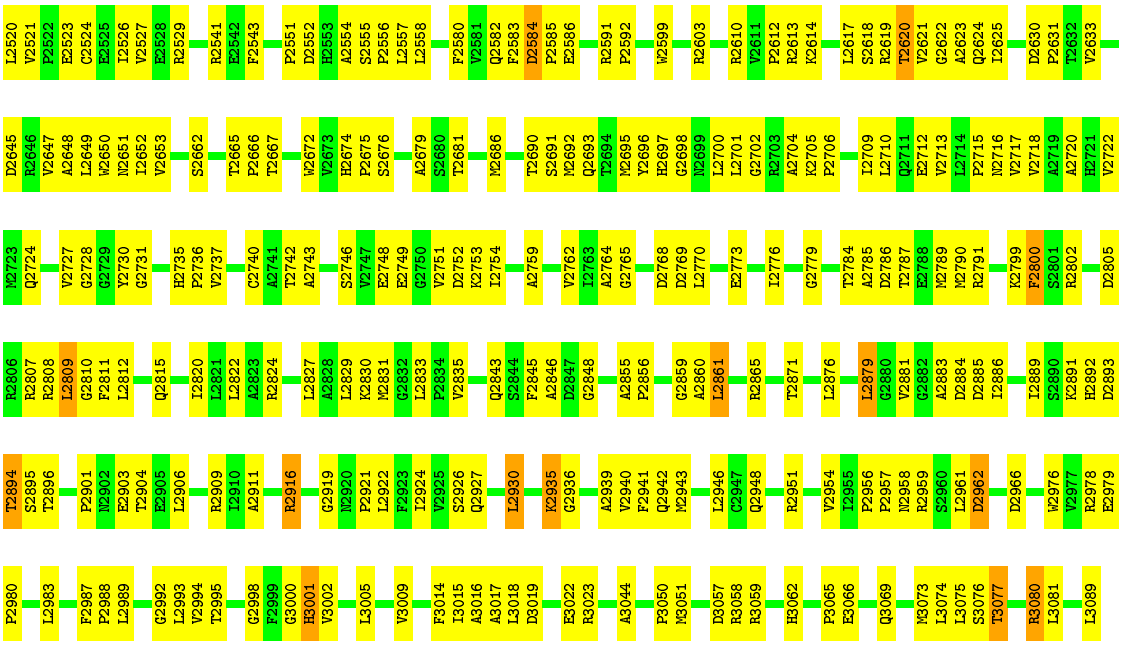


- Molecule 1: TYPE-I FATTY ACID SYNTHASE

Chain C:

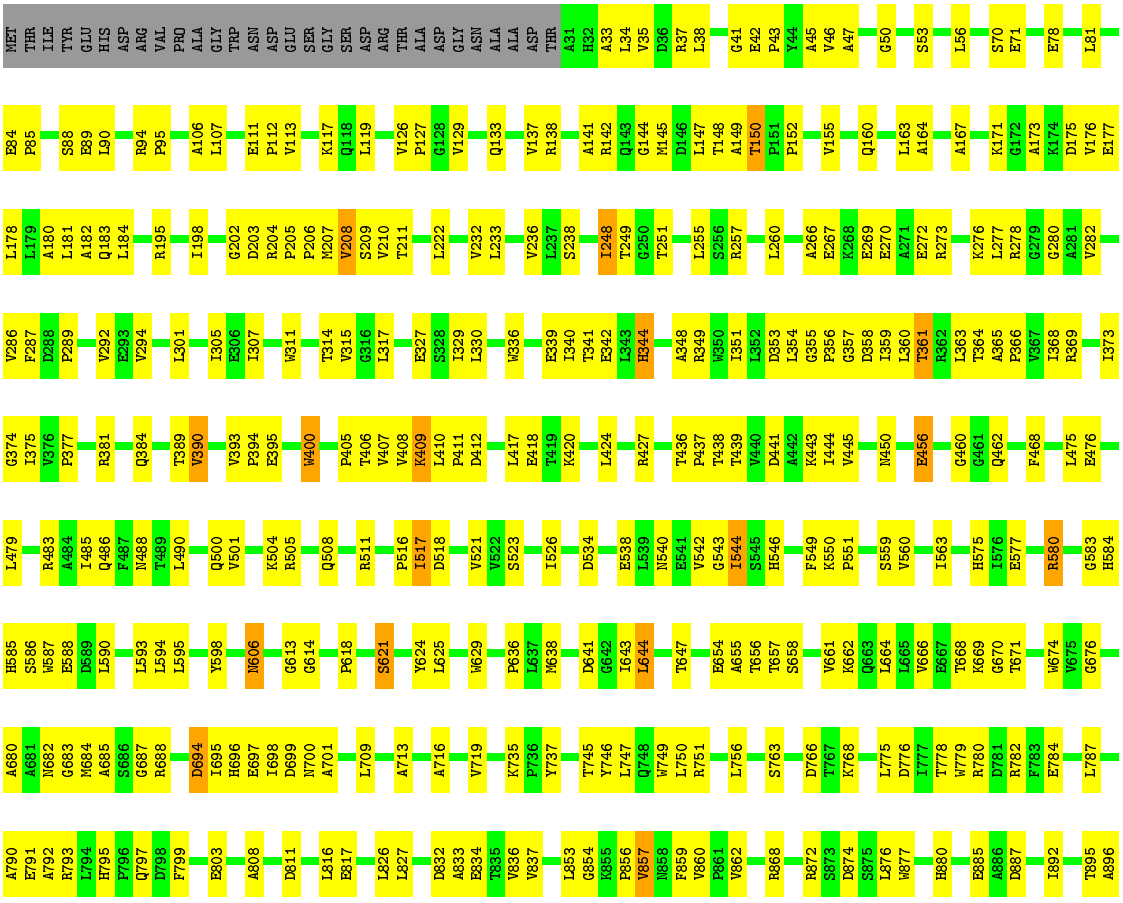


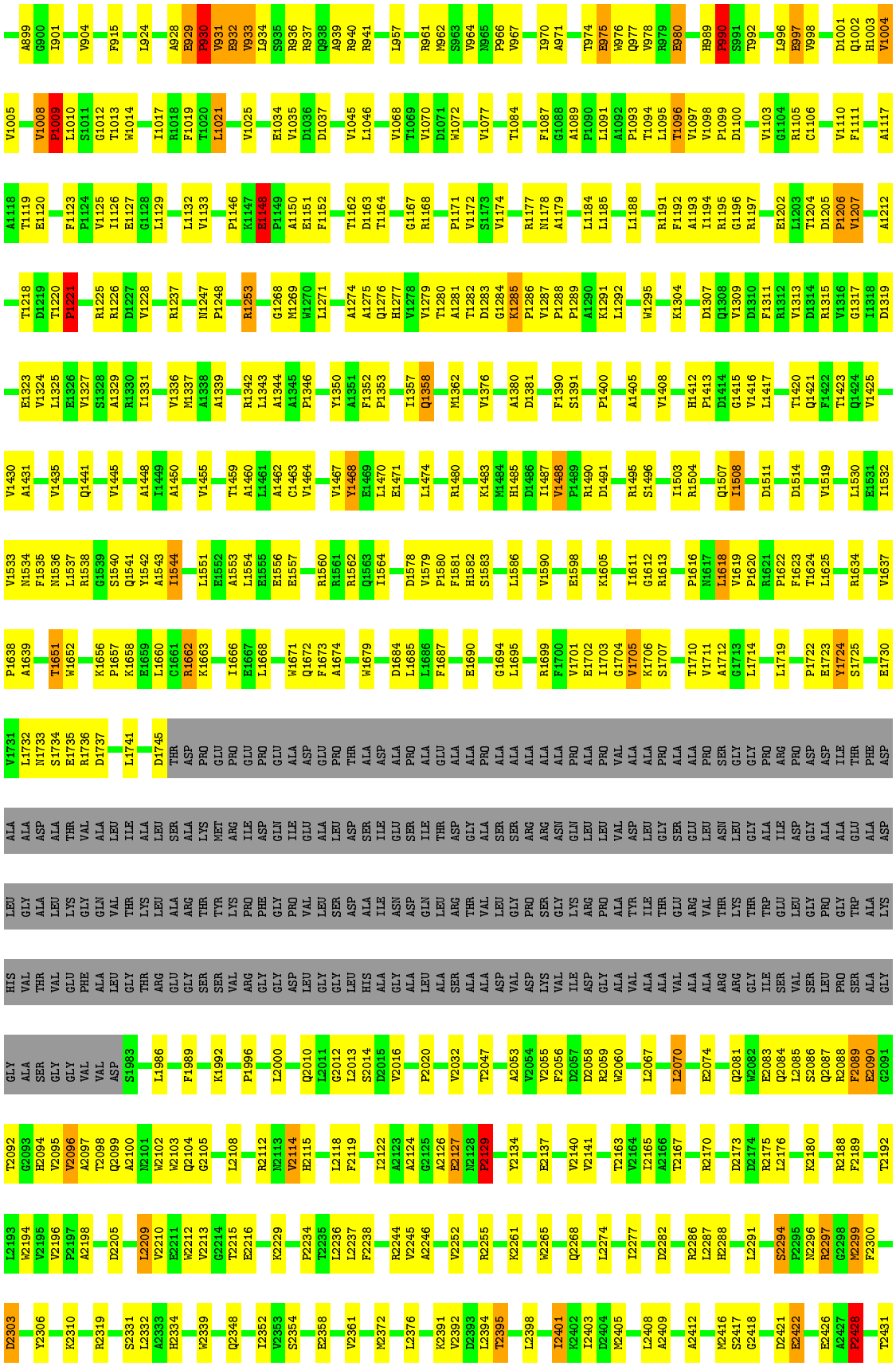




• Molecule 1: TYPE-I FATTY ACID SYNTHASE

Chain D:

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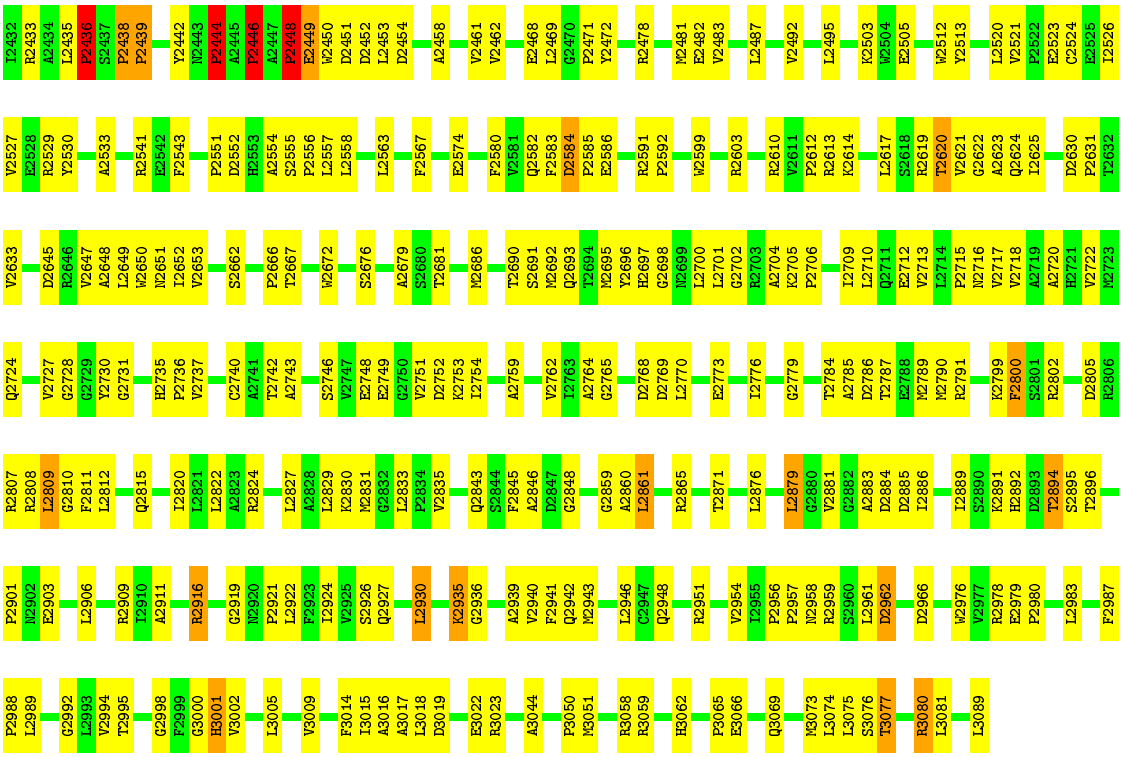
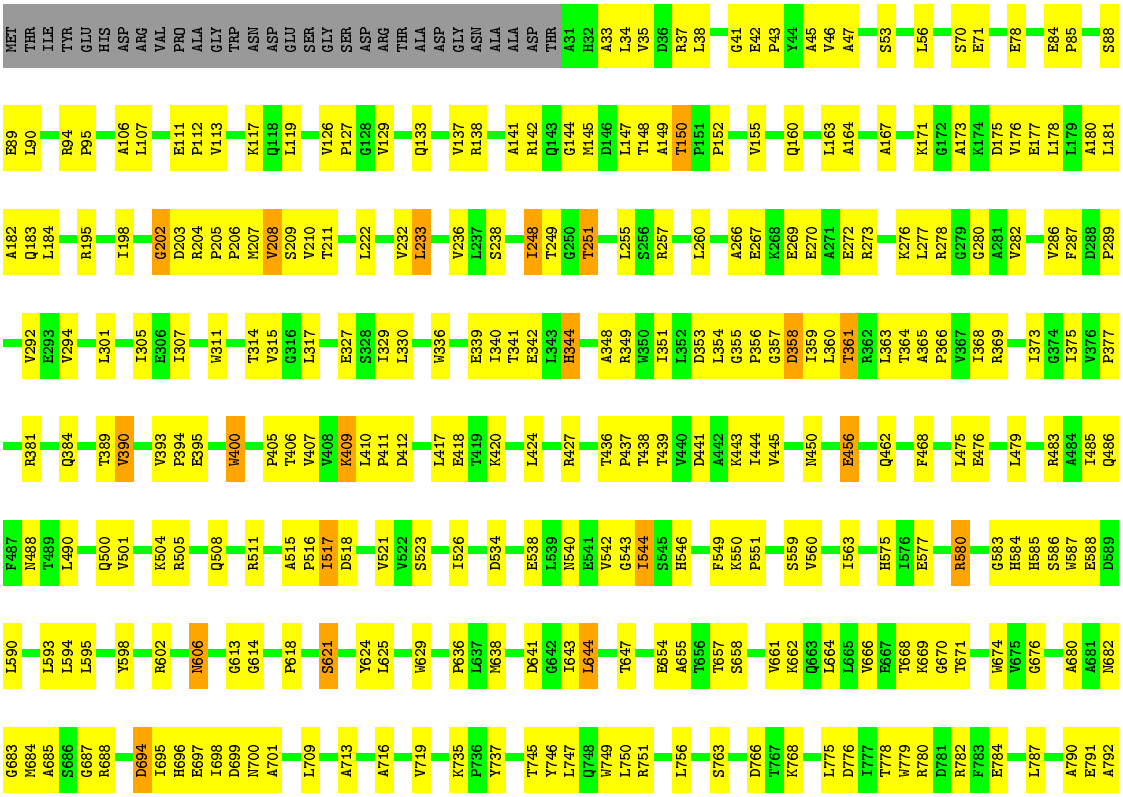
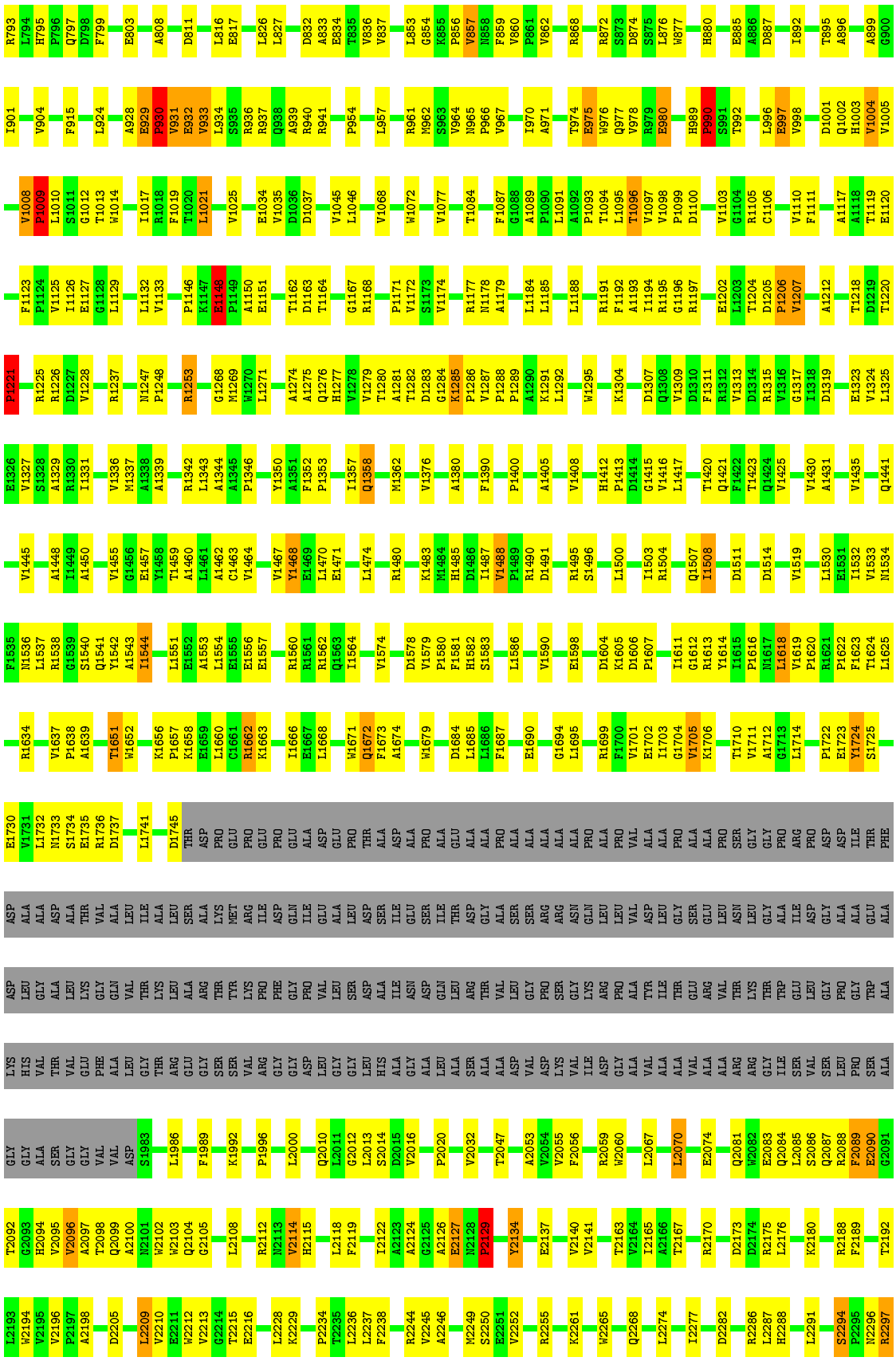
V1005 V1008 P1009 L1010 S1011 G1012 T1013 W1014 I1017 R1018 F1019 T1020 L1021 V1025 E1034 V1035 D1036 D1037 V1045 L1046 V1068 T1069 V1070 D1071 W1072 V1077 T1084 F1087 G1088 A1089 P1090 L1091 A1092 P1093 T1094 L1095 T1096 V1097 V1098 P1099 D1100 V1103 G1104 R1105 C1106 V1110 F1111 A1117
A1118 T1119 E1120 F1123 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 N1178 A1179 L1184 L1185 L1188 R1191 F1192 A1193 I1194 R1195 G1196 R1197 E1202 L1203 T1204 D1205 P1206 V1207 A1212
T1218 D1219 T1220 P1221 R1225 R1226 D1227 V1228 R1237 N1247 P1248 R1253 G1268 M1269 W1270 L1271 A1274 A1275 Q1276 H1277 V1278 V1279 T1280 A1281 T1282 D1283 G1284 K1285 P1286 V1287 P1288 P1289 A1290 K1291 L1292 W1295 K1304 D1307 Q1308 V1309 D1310 F1311 R1312 V1313 D1314 R1315 V1316 G1317 I1318 D1319
E1323 V1324 L1325 E1326 V1327 S1328 A1329 R1330 I1331 V1336 M1337 A1338 A1339 R1342 L1343 A1344 A1345 P1346 Y1350 A1351 F1352 P1353 I1357 Q1358 M1362 V1376 A1380 D1381 F1390 S1391 P1400 A1405 V1408 H1412 P1413 D1414 G1415 V1416 L1417 T1420 Q1421 F1422 T1423 Q1424 V1425
V1430 A1431 V1435 Q1441 V1445 A1448 I1449 A1450 V1455 T1459 A1460 L1461 A1462 C1463 V1464 V1467 Y1468 E1469 L1470 E1471 L1474 R1480 K1483 M1484 H1485 D1486 I1487 V1488 P1489 R1490 D1491 R1495 S1496 I1503 R1504 Q1507 I1508 D1511 D1514 V1519 L1530 E1531 I1532
V1533 N1534 F1535 N1536 L1537 R1538 G1539 S1540 Q1541 Y1542 A1543 I1544 L1551 E1552 A1553 L1554 E1555 E1556 E1557 R1560 R1561 R1562 Q1563 I1564 D1578 V1579 P1580 F1581 H1582 S1583 L1586 V1590 E1598 K1605 I1611 G1612 R1613 P1616 N1617 L1618 V1619 P1620 R1621 P1622 F1623 T1624 L1625 R1634 V1637
P1638 A1639 T1651 W1652 K1656 P1657 K1658 E1659 L1660 C1661 R1662 K1663 I1666 E1667 L1668 W1671 Q1672 F1673 A1674 W1679 D1684 L1685 L1686 F1687 E1690 G1694 L1695 R1699 F1700 V1701 E1702 I1703 G1704 V1705 K1706 S1707 T1710 V1711 A1712 G1713 L1714 L1719 P1722 E1723 Y1724 S1725 E1730
V1731 L1732 N1733 S1734 E1735 R1736 D1737 L1741 D1745 THR ASP PRO GLU PRO GLU PRO GLU ALA ASP GLU PRO THR ALA ASP ALA PRO ALA GLU ALA ALA PRO ALA ALA ALA ALA PRO VAL ALA ALA PRO SER GLY GLY PRO ARG PRO ASP ASP ILE THR PHE ASP
ALA ALA ASP ALA THR VAL ALA LEU ILE ALA LEU SER ALA LYS MET ARG ILE ASP GLN ILE GLU ALA LEU ASP SER ILE GLU SER ILE THR ASP GLY ALA SER SER ARG ARG ASN GLN LEU LEU VAL ASP LEU GLY ILE THR ILE ASP GLY LEU LEU ASN LEU GLY ALA ILE ASP GLY GLY ALA LEU GLU LEU GLY ILE SER VAL SER LEU PRO SER ALA ASP
LEU GLY ALA LEU LYS GLY GLN VAL THR LYS LEU ALA ARG THR TYR LYS PRO PHE GLY PRO VAL LEU SER ASP ALA ILE ASN ASP GLN LEU ARG THR VAL LEU GLY PRO SER GLY LYS ARG PRO ALA TYR ILE THR GLU ARG VAL THR LYS THR TRP GLU LEU GLY PRO GLY ALA TRP ALA LYS
HIS VAL THR VAL GLU PHE ALA LEU GLY THR ARG GLU GLY SER SER VAL ARG GLY GLY ASP LEU GLY GLY LEU HIS ALA GLY ALA LEU ALA SER ALA ALA ASP VAL ASP LYS VAL ILE ASP GLY ALA VAL ALA ALA ALA VAL ALA ALA ARG ARG GLY ILE SER VAL SER LEU PRO SER ALA GLY
GLY ALA SER GLY GLY VAL VAL ASP S1983 L1986 F1989 K1992 P1996 L2000 Q2010 L2011 G2012 L2013 S2014 D2015 V2016 P2020 V2032 T2047 A2053 W2054 V2055 F2056 D2057 D2058 R2059 W2060 L2067 I2070 E2074 Q2081 W2082 E2083 Q2084 L2085 S2086 Q2087 R2088 F2089 E2090 G2091
T2092 G2093 H2094 V2095 V2096 A2097 T2098 Q2099 A2100 N2101 W2102 W2103 Q2104 G2105 L2108 R2112 N2113 Y2114 H2115 L2118 F2119 I2122 A2123 A2124 G2125 A2126 E2127 N2128 F2139 Y2134 E2137 V2140 V2141 T2163 Y2164 I2165 A2166 T2167 R2170 D2173 D2174 R2175 L2176 K2180 S2294 P2295 N2296 R2297 G2298 M2299 F2300 R2188 F2189 T2192
L2193 W2194 Y2195 Y2196 P2197 A2198 D2205 L2209 Y2210 E2211 W2212 Y2213 G2214 T2215 E2216 K2229 P2234 T2235 L2236 L2237 F2238 R2244 V2245 A2246 V2252 R2255 K2261 W2265 Q2268 I2274 I2277 D2282 R2286 L2287 H2288 L2291
D2303 Y2306 K2310 R2319 S2331 L2332 A2333 H2334 W2339 Q2348 I2352 V2353 S2354 E2358 V2361 M2372 L2376 K2391 V2392 D2393 L2394 T2395 L2398 I2401 K2402 I2403 D2404 M2405 L2408 A2409 A2412 M2416 S2417 G2418 D2421 E2422 E2426 A2427 P2428 T2431
WORLDWIDE PDB PROTEIN DATA BANK
EMDataBank Unified Data Resource for 3DEM

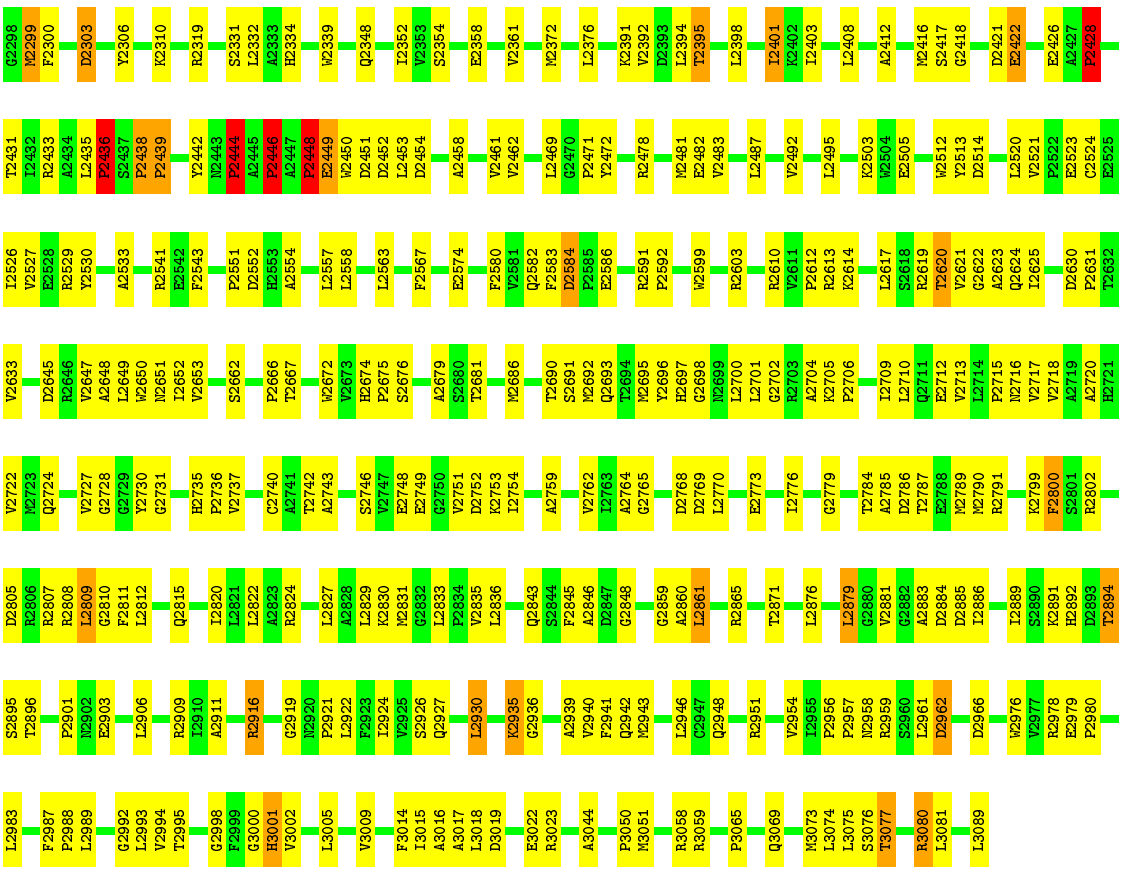


- Molecule 1: TYPE-I FATTY ACID SYNTHASE

Chain E:

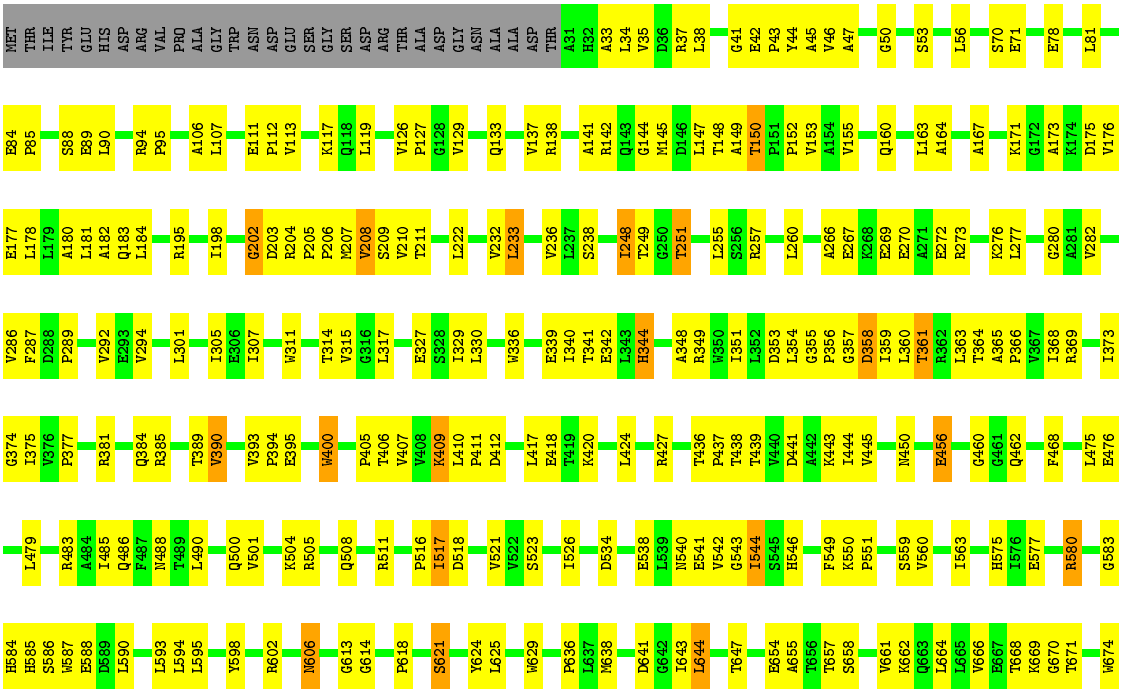


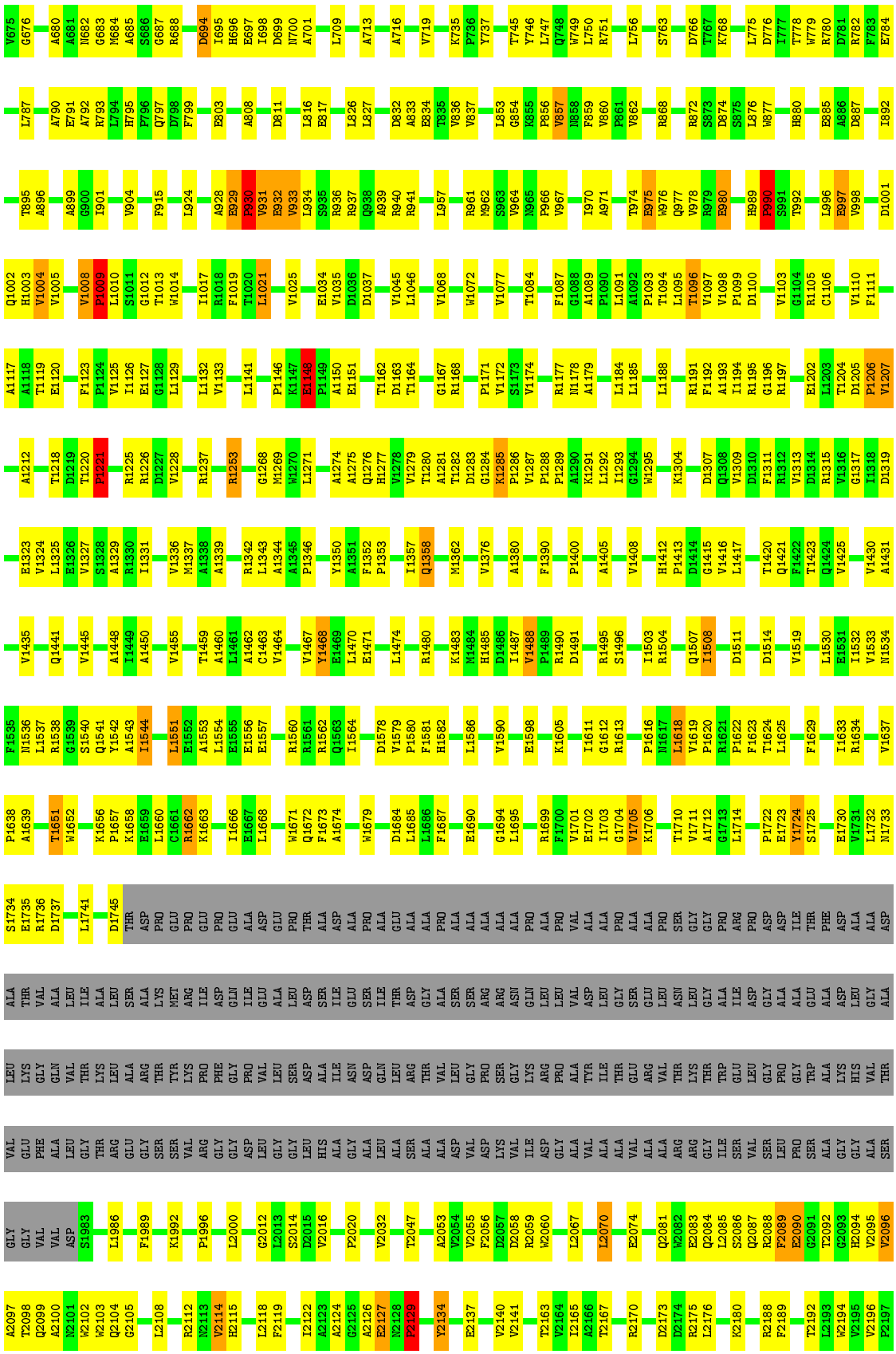


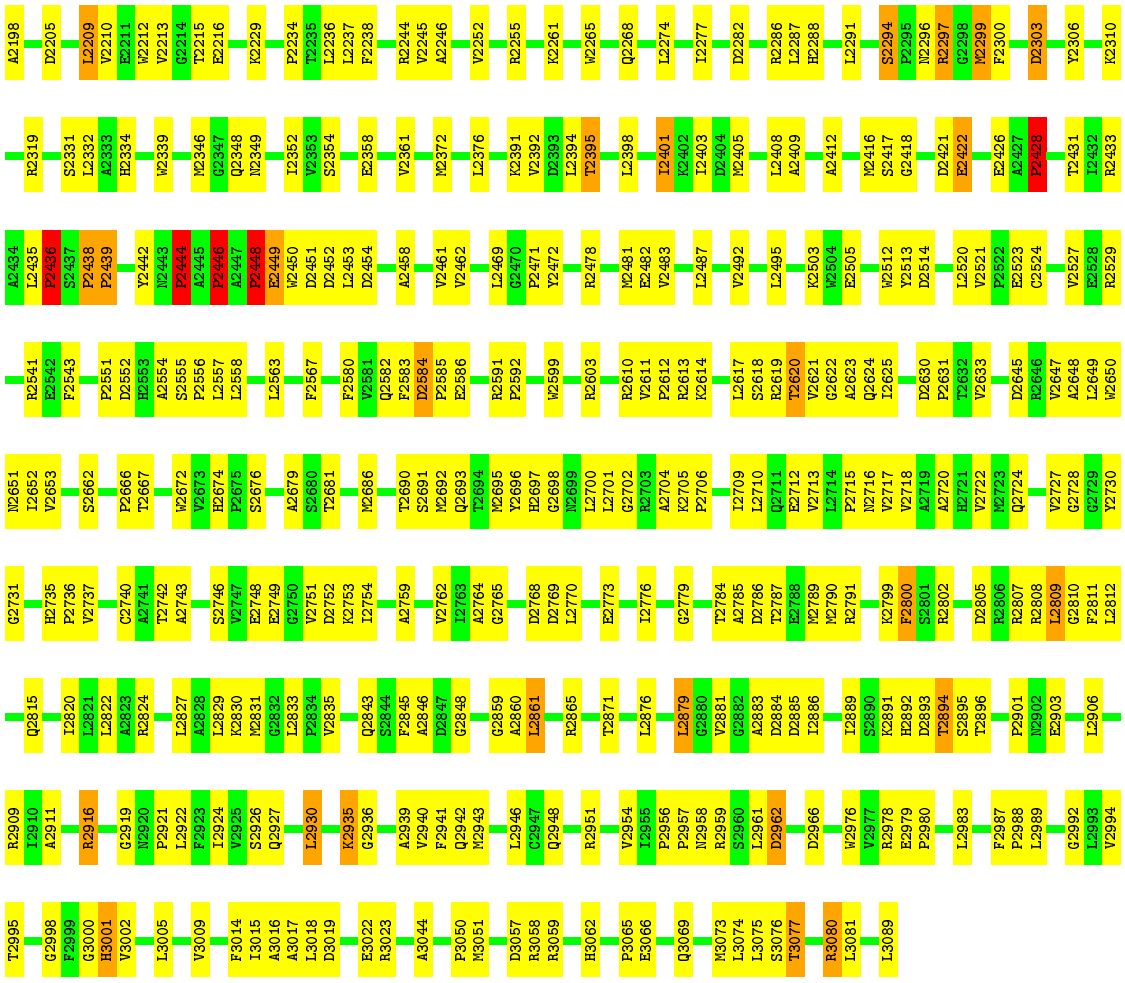


- Molecule 1: TYPE-I FATTY ACID SYNTHASE

Chain F:



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R2541 E2542 F2543 P2551 D2552 H2553 A2554 S2555 P2556 L2557 L2558 L2563 F2567 F2580 V2581 Q2582 F2583 D2584 P2585 E2586 R2591 P2592 W2599 R2603 R2610 V2611 P2612 R2613 K2614 L2617 S2618 R2619 T2620 V2621 G2622 A2623 Q2624 I2625 D2630 P2631 T2632 V2633 D2645 R2646 V2647 A2648 L2649 W2650
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Q2815 I2820 L2821 L2822 A2823 R2824 L2827 A2828 L2829 K2830 M2831 G2832 L2833 P2834 V2835 Q2843 S2844 F2845 A2846 D2847 G2848 G2859 A2860 L2861 R2865 T2871 L2876 L2879 G2880 V2881 G2882 A2883 D2884 D2885 I2886 I2889 S2890 K2891 H2892 D2893 T2894 S2895 T2896 P2901 N2902 E2903 L2906
R2909 I2910 A2911 R2916 G2919 N2920 P2921 L2922 F2923 I2924 V2925 S2926 Q2927 L2930 K2935 G2936 A2939 V2940 F2941 Q2942 M2943 L2946 C2947 Q2948 R2951 V2954 I2955 P2956 P2957 N2958 R2959 S2960 L2961 D2962 D2966 W2976 V2977 R2978 E2979 P2980 L2983 F2987 P2988 L2989 G2992 L2993 V2994
T2995 G2998 F2999 G3000 H3001 V3002 L3005 V3009 F3014 I3015 A3016 A3017 L3018 D3019 E3022 R3023 A3044 P3050 M3051 D3057 R3058 R3059 H3062 P3065 E3066 Q3069 M3073 L3074 L3075 S3076 T3077 R3080 L3081 L3089

4 Experimental information (i)

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of images	Not provided	Depositor
Resolution determination method	Not provided	Depositor
CTF correction method	Not provided	Depositor
Microscope	OTHER	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	Not provided	Depositor
Minimum defocus (nm)	1800	Depositor
Maximum defocus (nm)	4500	Depositor
Magnification	59000	Depositor
Image detector	KODAK SO163 FILM	Depositor

5 Model quality

5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>2$	RMSZ	#$\|Z\|>2$
1	A	0.39	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	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	E	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
1	F	0.39	27/21335 (0.1%)	0.51	13/29037 (0.0%)
All	All	0.39	162/128010 (0.1%)	0.51	78/174222 (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	5
1	E	0	5
1	F	0	5
All	All	0	30

All (162) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	2442	TYR	CB-CG	-6.38	1.42	1.51
1	A	2442	TYR	CB-CG	-6.36	1.42	1.51
1	B	2442	TYR	CB-CG	-6.35	1.42	1.51
1	F	2442	TYR	CB-CG	-6.33	1.42	1.51
1	D	2442	TYR	CB-CG	-6.31	1.42	1.51
1	C	2442	TYR	CB-CG	-6.28	1.42	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2134	TYR	CB-CG	-6.25	1.42	1.51
1	C	2134	TYR	CB-CG	-6.23	1.42	1.51
1	A	2134	TYR	CB-CG	-6.22	1.42	1.51
1	F	2134	TYR	CB-CG	-6.21	1.42	1.51
1	D	2134	TYR	CB-CG	-6.19	1.42	1.51
1	E	2134	TYR	CB-CG	-6.18	1.42	1.51
1	B	2089	PHE	CB-CG	-5.45	1.42	1.51
1	C	2089	PHE	CB-CG	-5.44	1.42	1.51
1	D	2089	PHE	CB-CG	-5.44	1.42	1.51
1	B	2119	PHE	CB-CG	-5.43	1.42	1.51
1	A	2119	PHE	CB-CG	-5.42	1.42	1.51
1	C	2119	PHE	CB-CG	-5.42	1.42	1.51
1	F	2119	PHE	CB-CG	-5.42	1.42	1.51
1	D	2119	PHE	CB-CG	-5.41	1.42	1.51
1	E	2089	PHE	CB-CG	-5.41	1.42	1.51
1	E	2119	PHE	CB-CG	-5.40	1.42	1.51
1	F	2089	PHE	CB-CG	-5.40	1.42	1.51
1	D	975	GLU	CB-CG	-5.39	1.42	1.52
1	C	975	GLU	CB-CG	-5.37	1.42	1.52
1	A	2089	PHE	CB-CG	-5.37	1.42	1.51
1	F	2090	GLU	CB-CG	-5.36	1.42	1.52
1	E	2090	GLU	CB-CG	-5.36	1.42	1.52
1	B	975	GLU	CB-CG	-5.36	1.42	1.52
1	F	975	GLU	CB-CG	-5.35	1.42	1.52
1	C	2090	GLU	CB-CG	-5.35	1.42	1.52
1	A	2426	GLU	CB-CG	-5.34	1.42	1.52
1	C	2083	GLU	CB-CG	-5.34	1.42	1.52
1	B	2426	GLU	CB-CG	-5.33	1.42	1.52
1	E	975	GLU	CB-CG	-5.33	1.42	1.52
1	A	975	GLU	CB-CG	-5.32	1.42	1.52
1	F	2426	GLU	CB-CG	-5.32	1.42	1.52
1	B	2090	GLU	CB-CG	-5.32	1.42	1.52
1	E	2426	GLU	CB-CG	-5.32	1.42	1.52
1	D	997	GLU	CB-CG	-5.31	1.42	1.52
1	E	1202	GLU	CB-CG	-5.31	1.42	1.52
1	C	932	GLU	CB-CG	-5.31	1.42	1.52
1	C	2426	GLU	CB-CG	-5.30	1.42	1.52
1	D	2090	GLU	CB-CG	-5.30	1.42	1.52
1	D	980	GLU	CB-CG	-5.30	1.42	1.52
1	A	2083	GLU	CB-CG	-5.30	1.42	1.52
1	A	2090	GLU	CB-CG	-5.30	1.42	1.52
1	D	2127	GLU	CB-CG	-5.30	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	980	GLU	CB-CG	-5.30	1.42	1.52
1	A	997	GLU	CB-CG	-5.30	1.42	1.52
1	F	2449	GLU	CB-CG	-5.30	1.42	1.52
1	A	1202	GLU	CB-CG	-5.29	1.42	1.52
1	D	1202	GLU	CB-CG	-5.28	1.42	1.52
1	E	2083	GLU	CB-CG	-5.28	1.42	1.52
1	F	997	GLU	CB-CG	-5.28	1.42	1.52
1	B	2127	GLU	CB-CG	-5.28	1.42	1.52
1	F	1202	GLU	CB-CG	-5.28	1.42	1.52
1	E	2127	GLU	CB-CG	-5.28	1.42	1.52
1	C	980	GLU	CB-CG	-5.28	1.42	1.52
1	D	2083	GLU	CB-CG	-5.28	1.42	1.52
1	D	2422	GLU	CB-CG	-5.28	1.42	1.52
1	B	932	GLU	CB-CG	-5.27	1.42	1.52
1	B	2422	GLU	CB-CG	-5.27	1.42	1.52
1	C	2449	GLU	CB-CG	-5.27	1.42	1.52
1	B	997	GLU	CB-CG	-5.27	1.42	1.52
1	C	929	GLU	CB-CG	-5.27	1.42	1.52
1	A	2422	GLU	CB-CG	-5.26	1.42	1.52
1	D	2426	GLU	CB-CG	-5.26	1.42	1.52
1	E	932	GLU	CB-CG	-5.26	1.42	1.52
1	E	2449	GLU	CB-CG	-5.26	1.42	1.52
1	A	2127	GLU	CB-CG	-5.26	1.42	1.52
1	D	932	GLU	CB-CG	-5.26	1.42	1.52
1	D	2449	GLU	CB-CG	-5.25	1.42	1.52
1	B	980	GLU	CB-CG	-5.25	1.42	1.52
1	C	997	GLU	CB-CG	-5.25	1.42	1.52
1	D	929	GLU	CB-CG	-5.25	1.42	1.52
1	C	1202	GLU	CB-CG	-5.24	1.42	1.52
1	F	2422	GLU	CB-CG	-5.24	1.42	1.52
1	A	932	GLU	CB-CG	-5.24	1.42	1.52
1	A	2449	GLU	CB-CG	-5.24	1.42	1.52
1	F	929	GLU	CB-CG	-5.24	1.42	1.52
1	F	2083	GLU	CB-CG	-5.24	1.42	1.52
1	F	980	GLU	CB-CG	-5.24	1.42	1.52
1	B	929	GLU	CB-CG	-5.24	1.42	1.52
1	E	997	GLU	CB-CG	-5.24	1.42	1.52
1	F	932	GLU	CB-CG	-5.23	1.42	1.52
1	A	980	GLU	CB-CG	-5.23	1.42	1.52
1	B	1202	GLU	CB-CG	-5.23	1.42	1.52
1	F	2127	GLU	CB-CG	-5.23	1.42	1.52
1	B	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	F	998	VAL	CB-CG1	-5.22	1.41	1.52
1	E	2422	GLU	CB-CG	-5.22	1.42	1.52
1	C	2422	GLU	CB-CG	-5.21	1.42	1.52
1	E	929	GLU	CB-CG	-5.21	1.42	1.52
1	C	2127	GLU	CB-CG	-5.21	1.42	1.52
1	B	2083	GLU	CB-CG	-5.20	1.42	1.52
1	E	998	VAL	CB-CG1	-5.20	1.42	1.52
1	C	998	VAL	CB-CG1	-5.19	1.42	1.52
1	A	998	VAL	CB-CG1	-5.18	1.42	1.52
1	A	929	GLU	CB-CG	-5.18	1.42	1.52
1	D	998	VAL	CB-CG1	-5.18	1.42	1.52
1	B	931	VAL	CB-CG1	-5.16	1.42	1.52
1	A	1005	VAL	CB-CG1	-5.16	1.42	1.52
1	B	998	VAL	CB-CG1	-5.15	1.42	1.52
1	D	1005	VAL	CB-CG1	-5.14	1.42	1.52
1	D	933	VAL	CB-CG1	-5.14	1.42	1.52
1	B	2095	VAL	CB-CG1	-5.14	1.42	1.52
1	B	1005	VAL	CB-CG1	-5.14	1.42	1.52
1	B	933	VAL	CB-CG1	-5.13	1.42	1.52
1	D	2114	VAL	CB-CG1	-5.13	1.42	1.52
1	E	933	VAL	CB-CG1	-5.13	1.42	1.52
1	E	2096	VAL	CB-CG1	-5.13	1.42	1.52
1	E	2095	VAL	CB-CG1	-5.12	1.42	1.52
1	C	1005	VAL	CB-CG1	-5.12	1.42	1.52
1	E	2114	VAL	CB-CG1	-5.12	1.42	1.52
1	F	1005	VAL	CB-CG1	-5.12	1.42	1.52
1	C	978	VAL	CB-CG1	-5.11	1.42	1.52
1	D	2096	VAL	CB-CG1	-5.11	1.42	1.52
1	D	931	VAL	CB-CG1	-5.11	1.42	1.52
1	F	933	VAL	CB-CG1	-5.10	1.42	1.52
1	F	2095	VAL	CB-CG1	-5.10	1.42	1.52
1	F	2096	VAL	CB-CG1	-5.10	1.42	1.52
1	A	931	VAL	CB-CG2	-5.09	1.42	1.52
1	E	1005	VAL	CB-CG1	-5.09	1.42	1.52
1	E	1207	VAL	CB-CG1	-5.09	1.42	1.52
1	A	978	VAL	CB-CG1	-5.08	1.42	1.52
1	B	978	VAL	CB-CG1	-5.08	1.42	1.52
1	C	931	VAL	CB-CG1	-5.08	1.42	1.52
1	F	978	VAL	CB-CG1	-5.08	1.42	1.52
1	A	2114	VAL	CB-CG1	-5.08	1.42	1.52
1	B	2114	VAL	CB-CG1	-5.08	1.42	1.52
1	D	1207	VAL	CB-CG1	-5.08	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	933	VAL	CB-CG1	-5.07	1.42	1.52
1	F	931	VAL	CB-CG1	-5.07	1.42	1.52
1	E	978	VAL	CB-CG1	-5.07	1.42	1.52
1	F	2114	VAL	CB-CG1	-5.07	1.42	1.52
1	A	1207	VAL	CB-CG1	-5.07	1.42	1.52
1	C	2096	VAL	CB-CG1	-5.07	1.42	1.52
1	C	933	VAL	CB-CG1	-5.07	1.42	1.52
1	C	2114	VAL	CB-CG1	-5.07	1.42	1.52
1	A	2096	VAL	CB-CG1	-5.06	1.42	1.52
1	B	1008	VAL	CB-CG1	-5.06	1.42	1.52
1	B	1207	VAL	CB-CG1	-5.06	1.42	1.52
1	C	1008	VAL	CB-CG1	-5.06	1.42	1.52
1	F	1207	VAL	CB-CG1	-5.06	1.42	1.52
1	A	2095	VAL	CB-CG1	-5.05	1.42	1.52
1	E	931	VAL	CB-CG1	-5.05	1.42	1.52
1	E	1008	VAL	CB-CG1	-5.05	1.42	1.52
1	D	2095	VAL	CB-CG1	-5.05	1.42	1.52
1	C	1004	VAL	CB-CG1	-5.05	1.42	1.52
1	D	978	VAL	CB-CG1	-5.05	1.42	1.52
1	D	1004	VAL	CB-CG1	-5.05	1.42	1.52
1	B	2096	VAL	CB-CG1	-5.04	1.42	1.52
1	C	1207	VAL	CB-CG1	-5.04	1.42	1.52
1	C	2095	VAL	CB-CG1	-5.03	1.42	1.52
1	E	1004	VAL	CB-CG1	-5.03	1.42	1.52
1	A	1004	VAL	CB-CG1	-5.02	1.42	1.52
1	A	1008	VAL	CB-CG1	-5.01	1.42	1.52
1	B	1004	VAL	CB-CG1	-5.01	1.42	1.52
1	D	1008	VAL	CB-CG1	-5.01	1.42	1.52
1	F	1008	VAL	CB-CG1	-5.01	1.42	1.52
1	F	1004	VAL	CB-CG1	-5.00	1.42	1.52

All (78) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	930	PRO	N-CA-CB	7.04	111.75	103.30
1	B	930	PRO	N-CA-CB	7.01	111.71	103.30
1	D	930	PRO	N-CA-CB	6.99	111.69	103.30
1	E	930	PRO	N-CA-CB	6.98	111.68	103.30
1	A	930	PRO	N-CA-CB	6.97	111.66	103.30
1	F	930	PRO	N-CA-CB	6.93	111.62	103.30
1	B	2438	PRO	N-CA-CB	6.32	110.88	103.30
1	B	1206	PRO	N-CA-CB	6.28	110.83	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	1206	PRO	N-CA-CB	6.27	110.82	103.30
1	F	1206	PRO	N-CA-CB	6.26	110.82	103.30
1	E	1206	PRO	N-CA-CB	6.26	110.81	103.30
1	C	1206	PRO	N-CA-CB	6.25	110.80	103.30
1	A	1206	PRO	N-CA-CB	6.25	110.79	103.30
1	A	2438	PRO	N-CA-CB	6.25	110.79	103.30
1	F	2438	PRO	N-CA-CB	6.22	110.77	103.30
1	D	2438	PRO	N-CA-CB	6.21	110.76	103.30
1	E	2438	PRO	N-CA-CB	6.21	110.75	103.30
1	C	2438	PRO	N-CA-CB	6.20	110.74	103.30
1	D	2428	PRO	N-CA-CB	6.12	110.64	103.30
1	B	2428	PRO	N-CA-CB	6.11	110.63	103.30
1	C	2428	PRO	N-CA-CB	6.11	110.63	103.30
1	A	2428	PRO	N-CA-CB	6.11	110.63	103.30
1	E	2444	PRO	N-CA-CB	6.10	110.62	103.30
1	F	2444	PRO	N-CA-CB	6.10	110.62	103.30
1	A	2444	PRO	N-CA-CB	6.09	110.60	103.30
1	F	2428	PRO	N-CA-CB	6.08	110.60	103.30
1	E	2428	PRO	N-CA-CB	6.08	110.59	103.30
1	B	2444	PRO	N-CA-CB	6.08	110.59	103.30
1	C	2444	PRO	N-CA-CB	6.07	110.58	103.30
1	D	2444	PRO	N-CA-CB	6.07	110.58	103.30
1	C	2439	PRO	N-CA-CB	6.01	110.51	103.30
1	A	2446	PRO	N-CA-CB	6.01	110.51	103.30
1	D	2446	PRO	N-CA-CB	6.00	110.51	103.30
1	B	2446	PRO	N-CA-CB	5.98	110.48	103.30
1	F	2446	PRO	N-CA-CB	5.96	110.46	103.30
1	C	2446	PRO	N-CA-CB	5.94	110.43	103.30
1	A	2448	PRO	N-CA-CB	5.93	110.42	103.30
1	F	2439	PRO	N-CA-CB	5.91	110.39	103.30
1	E	2446	PRO	N-CA-CB	5.90	110.38	103.30
1	E	2448	PRO	N-CA-CB	5.90	110.38	103.30
1	D	2129	PRO	N-CA-CB	5.90	110.38	103.30
1	D	2439	PRO	N-CA-CB	5.90	110.38	103.30
1	F	2448	PRO	N-CA-CB	5.90	110.38	103.30
1	E	2439	PRO	N-CA-CB	5.89	110.37	103.30
1	A	2439	PRO	N-CA-CB	5.89	110.36	103.30
1	F	2129	PRO	N-CA-CB	5.89	110.36	103.30
1	C	2448	PRO	N-CA-CB	5.88	110.36	103.30
1	B	2129	PRO	N-CA-CB	5.88	110.36	103.30
1	A	2129	PRO	N-CA-CB	5.88	110.35	103.30
1	C	2129	PRO	N-CA-CB	5.87	110.35	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	2129	PRO	N-CA-CB	5.87	110.34	103.30
1	D	2448	PRO	N-CA-CB	5.86	110.33	103.30
1	B	2448	PRO	N-CA-CB	5.84	110.31	103.30
1	B	2439	PRO	N-CA-CB	5.84	110.31	103.30
1	A	1009	PRO	N-CA-CB	5.82	110.28	103.30
1	C	1009	PRO	N-CA-CB	5.78	110.24	103.30
1	F	1009	PRO	N-CA-CB	5.78	110.24	103.30
1	B	990	PRO	N-CA-CB	5.77	110.22	103.30
1	B	1009	PRO	N-CA-CB	5.75	110.20	103.30
1	D	1009	PRO	N-CA-CB	5.75	110.20	103.30
1	E	1009	PRO	N-CA-CB	5.73	110.18	103.30
1	C	990	PRO	N-CA-CB	5.73	110.18	103.30
1	E	990	PRO	N-CA-CB	5.73	110.17	103.30
1	D	990	PRO	N-CA-CB	5.72	110.17	103.30
1	F	990	PRO	N-CA-CB	5.71	110.16	103.30
1	A	990	PRO	N-CA-CB	5.68	110.11	103.30
1	B	1221	PRO	N-CA-CB	5.63	110.05	103.30
1	A	1221	PRO	N-CA-CB	5.61	110.03	103.30
1	C	1221	PRO	N-CA-CB	5.60	110.02	103.30
1	F	2436	PRO	N-CA-CB	5.59	110.01	103.30
1	D	1221	PRO	N-CA-CB	5.58	110.00	103.30
1	F	1221	PRO	N-CA-CB	5.57	109.98	103.30
1	A	2436	PRO	N-CA-CB	5.53	109.94	103.30
1	E	2436	PRO	N-CA-CB	5.53	109.93	103.30
1	B	2436	PRO	N-CA-CB	5.52	109.92	103.30
1	D	2436	PRO	N-CA-CB	5.51	109.92	103.30
1	C	2436	PRO	N-CA-CB	5.51	109.91	103.30
1	E	1221	PRO	N-CA-CB	5.50	109.91	103.30

There are no chirality outliers.

All (30) 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

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

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	20945	0	20595	881	0
1	B	20945	0	20595	872	0
1	C	20945	0	20595	872	0
1	D	20945	0	20595	873	0
1	E	20945	0	20595	878	0
1	F	20945	0	20595	878	0
2	A	31	0	19	4	0
2	B	31	0	19	5	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	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	125856	0	123684	4910	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 (4910) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1013:THR:HG23	1:A:1014:TRP:H	1.15	1.10
1:E:1013:THR:HG23	1:E:1014:TRP:H	1.15	1.09
1:A:2112:ARG:H	1:A:2115:HIS:CG	1.73	1.07
1:C:2094:HIS:CG	1:C:2096:VAL:HG12	1.90	1.06
1:F:1013:THR:HG23	1:F:1014:TRP:H	1.15	1.06
1:D:1013:THR:HG23	1:D:1014:TRP:H	1.15	1.06
1:E:2094:HIS:CG	1:E:2096:VAL:HG12	1.90	1.06
1:C:2112:ARG:H	1:C:2115:HIS:CG	1.73	1.06
1:A:2094:HIS:CG	1:A:2096:VAL:HG12	1.90	1.06
1:E:2112:ARG:H	1:E:2115:HIS:CG	1.73	1.06
1:F:2112:ARG:H	1:F:2115:HIS:CG	1.73	1.06
1:C:1013:THR:HG23	1:C:1014:TRP:H	1.15	1.05
1:D:2094:HIS:CG	1:D:2096:VAL:HG12	1.90	1.05
1:B:2112:ARG:H	1:B:2115:HIS:CG	1.73	1.05
1:F:2094:HIS:CG	1:F:2096:VAL:HG12	1.90	1.05
1:B:2094:HIS:CG	1:B:2096:VAL:HG12	1.90	1.05
1:D:2112:ARG:H	1:D:2115:HIS:CG	1.73	1.05
1:B:1013:THR:HG23	1:B:1014:TRP:H	1.15	1.03
1:F:992:THR:CG2	1:F:996:LEU:CG	2.39	1.01
1:B:992:THR:CG2	1:B:996:LEU:CG	2.39	1.01
1:C:992:THR:CG2	1:C:996:LEU:CG	2.39	1.01
1:A:992:THR:CG2	1:A:996:LEU:CG	2.39	1.01
1:E:992:THR:CG2	1:E:996:LEU:CG	2.39	1.00
1:C:2433:ARG:HA	1:C:2524:CYS:HB3	1.44	1.00
1:A:2433:ARG:HA	1:A:2524:CYS:HB3	1.44	1.00
1:D:2433:ARG:HA	1:D:2524:CYS:HB3	1.44	1.00
1:D:992:THR:CG2	1:D:996:LEU:CG	2.39	0.99
1:B:2433:ARG:HA	1:B:2524:CYS:HB3	1.44	0.99
1:E:792:ALA:O	1:E:2433:ARG:CG	2.12	0.98
1:E:2433:ARG:HA	1:E:2524:CYS:HB3	1.44	0.98
1:C:792:ALA:O	1:C:2433:ARG:CG	2.12	0.98
1:E:1220:THR:HG22	1:E:1221:PRO:N	1.78	0.98
1:A:1220:THR:HG22	1:A:1221:PRO:N	1.78	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2433:ARG:HA	1:F:2524:CYS:HB3	1.44	0.98
1:D:792:ALA:O	1:D:2433:ARG:CG	2.12	0.98
1:F:792:ALA:O	1:F:2433:ARG:CG	2.12	0.98
1:C:3080:ARG:HG3	1:C:3080:ARG:HH11	1.29	0.98
1:A:792:ALA:O	1:A:2433:ARG:CG	2.11	0.98
1:D:1220:THR:HG22	1:D:1221:PRO:N	1.78	0.97
1:F:1220:THR:HG22	1:F:1221:PRO:N	1.77	0.97
1:F:3080:ARG:HH11	1:F:3080:ARG:HG3	1.29	0.97
1:C:407:VAL:HB	1:C:933:VAL:HG11	1.47	0.97
1:B:792:ALA:O	1:B:2433:ARG:CG	2.12	0.96
1:D:407:VAL:HB	1:D:933:VAL:HG11	1.47	0.96
1:A:407:VAL:HB	1:A:933:VAL:HG11	1.47	0.96
1:C:1220:THR:HG22	1:C:1221:PRO:N	1.78	0.96
1:E:3080:ARG:HG3	1:E:3080:ARG:HH11	1.29	0.96
1:B:1220:THR:HG22	1:B:1221:PRO:N	1.77	0.96
1:B:3080:ARG:HH11	1:B:3080:ARG:HG3	1.29	0.95
1:E:992:THR:HG21	1:E:996:LEU:CG	1.97	0.94
1:A:3080:ARG:HG3	1:A:3080:ARG:HH11	1.29	0.94
1:D:992:THR:HG21	1:D:996:LEU:CG	1.97	0.94
1:F:407:VAL:HB	1:F:933:VAL:HG11	1.47	0.94
1:F:992:THR:HG21	1:F:996:LEU:CG	1.97	0.94
1:A:992:THR:HG21	1:A:996:LEU:CG	1.97	0.94
1:D:3080:ARG:HH11	1:D:3080:ARG:HG3	1.29	0.94
1:C:992:THR:HG21	1:C:996:LEU:CG	1.97	0.93
1:D:793:ARG:O	1:D:2435:LEU:CG	2.17	0.93
1:F:793:ARG:O	1:F:2435:LEU:CG	2.17	0.93
1:B:1012:GLY:O	1:B:1013:THR:HG22	1.69	0.93
1:B:992:THR:HG21	1:B:996:LEU:CG	1.97	0.93
1:C:2100:ALA:O	1:C:2103:TRP:CG	2.22	0.93
1:B:1003:HIS:CG	1:B:1004:VAL:H	1.86	0.93
1:A:2100:ALA:O	1:A:2103:TRP:CG	2.22	0.93
1:B:793:ARG:O	1:B:2435:LEU:CG	2.17	0.93
1:B:2100:ALA:O	1:B:2103:TRP:CG	2.22	0.93
1:D:1012:GLY:O	1:D:1013:THR:HG22	1.69	0.93
1:C:1012:GLY:O	1:C:1013:THR:HG22	1.69	0.93
1:C:1013:THR:HG23	1:C:1014:TRP:N	1.84	0.93
1:F:1003:HIS:CG	1:F:1004:VAL:H	1.86	0.93
1:D:2100:ALA:O	1:D:2103:TRP:CG	2.22	0.93
1:F:2100:ALA:O	1:F:2103:TRP:CG	2.22	0.92
1:A:793:ARG:O	1:A:2435:LEU:CG	2.16	0.92
1:E:2100:ALA:O	1:E:2103:TRP:CG	2.22	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1013:THR:HG23	1:D:1014:TRP:N	1.84	0.92
1:E:407:VAL:HB	1:E:933:VAL:HG11	1.47	0.92
1:C:1003:HIS:CG	1:C:1004:VAL:H	1.86	0.92
1:B:407:VAL:HB	1:B:933:VAL:HG11	1.47	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	2.17	0.92
1:D:1003:HIS:CG	1:D:1004:VAL:H	1.86	0.92
1:F:1012:GLY:O	1:F:1013:THR:HG22	1.69	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:E:1013:THR:HG23	1:E:1014:TRP:N	1.84	0.90
1:B:1013:THR:HG23	1:B:1014:TRP:N	1.84	0.90
1:E:1012:GLY:O	1:E:1013:THR:HG22	1.69	0.90
1:E:1003:HIS:CG	1:E:1004:VAL:H	1.86	0.90
1:A:1013:THR:HG23	1:A:1014:TRP:N	1.84	0.89
1:A:1003:HIS:CG	1:A:1004:VAL:H	1.86	0.89
1:E:931:VAL:HG13	1:E:934:LEU:H	1.40	0.87
1:C:931:VAL:HG13	1:C:934:LEU:H	1.40	0.86
1:F:931:VAL:HG13	1:F:934:LEU:H	1.40	0.86
1:B:931:VAL:HG11	1:B:933:VAL:CG1	2.06	0.86
1:C:931:VAL:HG11	1:C:933:VAL:CG1	2.06	0.86
1:A:931:VAL:HG23	1:A:934:LEU:H	1.40	0.85
1:C:2105:GLY:O	1:C:2108:LEU:CG	2.24	0.85
1:C:3077:THR:HA	1:D:2865:ARG:HD3	1.57	0.85
1:F:2105:GLY:O	1:F:2108:LEU:CG	2.24	0.85
1:A:2105:GLY:O	1:A:2108:LEU:CG	2.25	0.85
1:A:3077:THR:HA	1:F:2865:ARG:HD3	1.57	0.85
1:E:931:VAL:HG11	1:E:933:VAL:CG1	2.06	0.85
1:D:931:VAL:HG11	1:D:933:VAL:CG1	2.06	0.85
1:A:1218:THR:HG23	1:A:1441:GLN:OE1	1.77	0.85
1:B:2105:GLY:O	1:B:2108:LEU:CG	2.24	0.85
1:D:2105:GLY:O	1:D:2108:LEU:CG	2.24	0.85
1:A:931:VAL:HG21	1:A:933:VAL:CG1	2.06	0.85
1:D:1218:THR:HG23	1:D:1441:GLN:OE1	1.77	0.85
1:B:3077:THR:HA	1:E:2865:ARG:HD3	1.57	0.85
1:C:1218:THR:HG23	1:C:1441:GLN:OE1	1.77	0.84
1:F:1218:THR:HG23	1:F:1441:GLN:OE1	1.77	0.84
1:B:2865:ARG:HD3	1:E:3077:THR:HA	1.57	0.84
1:E:2105:GLY:O	1:E:2108:LEU:CG	2.25	0.84
1:F:992:THR:HG22	1:F:996:LEU:CG	2.07	0.84
1:D:931:VAL:HG13	1:D:934:LEU:H	1.40	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2865:ARG:HD3	1:F:3077:THR:HA	1.57	0.84
1:B:1218:THR:HG23	1:B:1441:GLN:OE1	1.77	0.84
1:F:931:VAL:HG11	1:F:933:VAL:CG1	2.06	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:C:992:THR:HG22	1:C:996:LEU:CG	2.07	0.83
1:E:992:THR:HG22	1:E:996:LEU:CG	2.07	0.83
1:D:992:THR:HG22	1:D:996:LEU:CG	2.07	0.83
1:E:1218:THR:HG23	1:E:1441:GLN:OE1	1.77	0.83
1:B:992:THR:HG22	1:B:996:LEU:CG	2.07	0.83
1:B:43:PRO:HG2	1:B:348:ALA:HA	1.60	0.83
1:A:43:PRO:HG2	1:A:348:ALA:HA	1.60	0.83
1:C:2865:ARG:HD3	1:D:3077:THR:HA	1.58	0.83
1:B:1538:ARG:HH11	1:B:1722:PRO:HB3	1.43	0.83
1:E:43:PRO:HG2	1:E:348:ALA:HA	1.60	0.83
1:F:1538:ARG:HH11	1:F:1722:PRO:HB3	1.43	0.82
1:B:2016:VAL:HG13	1:B:2020:PRO:HG3	1.62	0.82
1:E:2016:VAL:HG13	1:E:2020:PRO:HG3	1.62	0.82
1:D:2016:VAL:HG13	1:D:2020:PRO:HG3	1.62	0.82
1:D:1538:ARG:HH11	1:D:1722:PRO:HB3	1.43	0.81
1:C:1538:ARG:HH11	1:C:1722:PRO:HB3	1.43	0.81
1:D:43:PRO:HG2	1:D:348:ALA:HA	1.60	0.81
1:A:1538:ARG:HH11	1:A:1722:PRO:HB3	1.43	0.81
1:E:2730:TYR:OH	1:E:3059:ARG:NH1	2.14	0.81
1:F:46:VAL:HB	1:F:155:VAL:HG13	1.63	0.81
1:F:43:PRO:HG2	1:F:348:ALA:HA	1.61	0.81
1:C:43:PRO:HG2	1:C:348:ALA:HA	1.60	0.81
1:A:2730:TYR:OH	1:A:3059:ARG:NH1	2.14	0.81
1:D:2730:TYR:OH	1:D:3059:ARG:NH1	2.14	0.81
1:F:138:ARG:NH2	1:F:175:ASP:OD2	2.14	0.81
1:F:967:VAL:HA	1:F:970:ILE:HB	1.63	0.81
1:C:967:VAL:HA	1:C:970:ILE:HB	1.63	0.81
1:A:2016:VAL:HG13	1:A:2020:PRO:HG3	1.62	0.81
1:C:46:VAL:HB	1:C:155:VAL:HG13	1.63	0.81
1:E:138:ARG:NH2	1:E:175:ASP:OD2	2.14	0.81
1:E:46:VAL:HB	1:E:155:VAL:HG13	1.63	0.81
1:E:967:VAL:HA	1:E:970:ILE:HB	1.63	0.80
1:C:931:VAL:CG1	1:C:933:VAL:CG1	2.60	0.80
1:B:46:VAL:HB	1:B:155:VAL:HG13	1.63	0.80
1:D:138:ARG:NH2	1:D:175:ASP:OD2	2.14	0.80
1:F:2016:VAL:HG13	1:F:2020:PRO:HG3	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:931:VAL:CG1	1:F:933:VAL:CG1	2.60	0.80
1:A:138:ARG:NH2	1:A:175:ASP:OD2	2.14	0.80
1:B:967:VAL:HA	1:B:970:ILE:HB	1.63	0.80
1:B:138:ARG:NH2	1:B:175:ASP:OD2	2.14	0.80
1:C:2610:ARG:HH12	1:C:2700:LEU:HD11	1.47	0.80
1:E:1538:ARG:HH11	1:E:1722:PRO:HB3	1.43	0.80
1:A:931:VAL:CG2	1:A:933:VAL:CG1	2.60	0.80
1:F:2730:TYR:OH	1:F:3059:ARG:NH1	2.14	0.80
1:C:138:ARG:NH2	1:C:175:ASP:OD2	2.14	0.80
1:D:967:VAL:HA	1:D:970:ILE:HB	1.63	0.80
1:C:2730:TYR:OH	1:C:3059:ARG:NH1	2.14	0.80
1:E:931:VAL:CG1	1:E:933:VAL:CG1	2.60	0.80
1:B:931:VAL:CG1	1:B:933:VAL:CG1	2.60	0.80
1:C:2016:VAL:HG13	1:C:2020:PRO:HG3	1.62	0.80
1:A:46:VAL:HB	1:A:155:VAL:HG13	1.63	0.80
1:A:967:VAL:HA	1:A:970:ILE:HB	1.63	0.79
1:D:931:VAL:CG1	1:D:933:VAL:CG1	2.60	0.79
1:E:931:VAL:HG11	1:E:933:VAL:HG13	1.65	0.79
1:B:2730:TYR:OH	1:B:3059:ARG:NH1	2.14	0.79
1:F:273:ARG:HB2	1:F:282:VAL:H	1.47	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:C:273:ARG:HB2	1:C:282:VAL:H	1.47	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:2450:TRP:CG	1:F:3016:ALA:HB1	2.18	0.79
1:B:2610:ARG:HH12	1:B:2700:LEU:HD11	1.47	0.79
1:D:2610:ARG:HH12	1:D:2700:LEU:HD11	1.47	0.79
1:D:46:VAL:HB	1:D:155:VAL:HG13	1.63	0.79
1:F:2610:ARG:HH12	1:F:2700:LEU:HD11	1.47	0.79
1:F:1329:ALA:HB3	1:F:1337:MET:H	1.48	0.78
1:C:2450:TRP:CG	1:C:3016:ALA:HB1	2.18	0.78
1:E:2450:TRP:CG	1:E:3016:ALA:HB1	2.18	0.78
1:D:273:ARG:HB2	1:D:282:VAL:H	1.47	0.78
1:D:971:ALA:O	1:D:974:THR:HG22	1.84	0.78
1:E:2610:ARG:HH12	1:E:2700:LEU:HD11	1.47	0.78
1:A:971:ALA:O	1:A:974:THR:HG22	1.84	0.78
1:F:931:VAL:HG11	1:F:933:VAL:HG13	1.65	0.78
1:B:971:ALA:O	1:B:974:THR:HG22	1.84	0.78
1:E:1329:ALA:HB3	1:E:1337:MET:H	1.49	0.78
1:B:2450:TRP:CG	1:B:3016:ALA:HB1	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:971:ALA:O	1:C:974:THR:HG22	1.84	0.77
1:B:931:VAL:HG11	1:B:933:VAL:HG13	1.65	0.77
1:D:2450:TRP:CG	1:D:3016:ALA:HB1	2.18	0.77
1:B:2451:ASP:CG	1:B:2454:ASP:OD2	2.22	0.77
1:F:1220:THR:CG2	1:F:1221:PRO:N	2.46	0.77
1:F:971:ALA:O	1:F:974:THR:HG22	1.84	0.77
1:E:273:ARG:HB2	1:E:282:VAL:H	1.47	0.77
1:D:931:VAL:HG11	1:D:933:VAL:HG13	1.65	0.77
1:A:1329:ALA:HB3	1:A:1337:MET:H	1.48	0.77
1:E:971:ALA:O	1:E:974:THR:HG22	1.84	0.77
1:A:931:VAL:CG2	1:A:933:VAL:HG13	2.15	0.77
1:B:1329:ALA:HB3	1:B:1337:MET:H	1.48	0.77
1:C:931:VAL:CG1	1:C:933:VAL:HG13	2.15	0.77
1:A:2451:ASP:CG	1:A:2454:ASP:OD2	2.22	0.77
1:C:2112:ARG:O	1:C:2115:HIS:CG	2.38	0.77
1:D:2451:ASP:CG	1:D:2454:ASP:OD2	2.22	0.77
1:A:931:VAL:HG21	1:A:933:VAL:HG13	1.64	0.77
1:F:931:VAL:CG1	1:F:933:VAL:HG13	2.15	0.77
1:E:2451:ASP:CG	1:E:2454:ASP:OD2	2.22	0.77
1:A:2610:ARG:HH12	1:A:2700:LEU:HD11	1.47	0.77
1:E:1220:THR:CG2	1:E:1221:PRO:N	2.46	0.76
1:B:1003:HIS:CG	1:B:1004:VAL:N	2.53	0.76
1:E:931:VAL:CG1	1:E:933:VAL:HG13	2.15	0.76
1:C:931:VAL:HG11	1:C:933:VAL:HG13	1.65	0.76
1:A:2557:LEU:O	1:A:2613:ARG:N	2.18	0.76
1:A:2645:ASP:OD2	1:A:2691:SER:N	2.19	0.76
1:C:1003:HIS:CG	1:C:1004:VAL:N	2.53	0.76
1:C:2451:ASP:CG	1:C:2454:ASP:OD2	2.22	0.76
1:C:934:LEU:O	1:C:937:ARG:CG	2.34	0.76
1:C:1220:THR:CG2	1:C:1221:PRO:N	2.46	0.76
1:B:2112:ARG:O	1:B:2115:HIS:CG	2.38	0.76
1:D:2112:ARG:O	1:D:2115:HIS:CG	2.38	0.76
1:F:934:LEU:O	1:F:937:ARG:CG	2.34	0.76
1:A:934:LEU:O	1:A:937:ARG:CG	2.34	0.76
1:E:2557:LEU:O	1:E:2613:ARG:N	2.18	0.76
1:D:2645:ASP:OD2	1:D:2691:SER:N	2.19	0.76
1:D:931:VAL:CG1	1:D:933:VAL:HG13	2.15	0.76
1:F:2451:ASP:CG	1:F:2454:ASP:OD2	2.23	0.76
1:F:2112:ARG:O	1:F:2115:HIS:CG	2.38	0.76
1:D:934:LEU:O	1:D:937:ARG:CG	2.34	0.76
1:B:1097:VAL:HB	1:B:1146:PRO:HB2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1329:ALA:HB3	1:D:1337:MET:H	1.49	0.76
1:A:2112:ARG:O	1:A:2115:HIS:CG	2.38	0.75
1:E:2112:ARG:O	1:E:2115:HIS:CG	2.38	0.75
1:D:1695:LEU:HD23	1:E:257:ARG:HH12	1.50	0.75
1:D:1097:VAL:HB	1:D:1146:PRO:HB2	1.68	0.75
1:A:1695:LEU:HD23	1:B:257:ARG:HH12	1.51	0.75
1:E:1695:LEU:HD23	1:F:257:ARG:HH12	1.51	0.75
1:C:2645:ASP:OD2	1:C:2691:SER:N	2.19	0.75
1:B:1695:LEU:HD23	1:C:257:ARG:HH12	1.50	0.75
1:B:934:LEU:O	1:B:937:ARG:CG	2.34	0.75
1:A:257:ARG:HH12	1:C:1695:LEU:HD23	1.51	0.75
1:A:1097:VAL:HB	1:A:1146:PRO:HB2	1.68	0.75
1:C:1329:ALA:HB3	1:C:1337:MET:H	1.49	0.75
1:B:2557:LEU:O	1:B:2613:ARG:N	2.18	0.75
1:D:257:ARG:HH12	1:F:1695:LEU:HD23	1.51	0.75
1:A:1556:GLU:OE2	1:A:1560:ARG:NH2	2.20	0.75
1:B:931:VAL:CG1	1:B:933:VAL:HG13	2.15	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:E:33:ALA:HB2	1:E:390:VAL:HA	1.69	0.74
1:D:445:VAL:HG13	1:D:475:LEU:HD21	1.69	0.74
1:E:934:LEU:O	1:E:937:ARG:CG	2.34	0.74
1:C:33:ALA:HB2	1:C:390:VAL:HA	1.70	0.74
1:B:1220:THR:CG2	1:B:1221:PRO:N	2.46	0.74
1:D:3015:ILE:HG12	1:D:3023:ARG:HG3	1.69	0.74
1:F:2645:ASP:OD2	1:F:2691:SER:N	2.19	0.74
1:E:445:VAL:HG13	1:E:475:LEU:HD21	1.69	0.74
1:A:33:ALA:HB2	1:A:390:VAL:HA	1.70	0.74
1:C:3015:ILE:HG12	1:C:3023:ARG:HG3	1.69	0.74
1:B:1556:GLU:OE2	1:B:1560:ARG:NH2	2.20	0.74
1:E:1097:VAL:HB	1:E:1146:PRO:HB2	1.68	0.74
1:C:2700:LEU:HD22	1:D:2697:HIS:HD2	1.53	0.74
1:D:1556:GLU:OE2	1:D:1560:ARG:NH2	2.20	0.74
1:E:2645:ASP:OD2	1:E:2691:SER:N	2.19	0.74
1:C:1097:VAL:HB	1:C:1146:PRO:HB2	1.68	0.74
1:E:3015:ILE:HG12	1:E:3023:ARG:HG3	1.69	0.74
1:E:1556:GLU:OE2	1:E:1560:ARG:NH2	2.20	0.74
1:B:3015:ILE:HG12	1:B:3023:ARG:HG3	1.69	0.74
1:C:2053:ALA:O	1:C:2807:ARG:NH2	2.21	0.73
1:D:2557:LEU:O	1:D:2613:ARG:N	2.18	0.73
1:D:2096:VAL:O	1:D:2099:GLN:CG	2.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2697:HIS:HD2	1:F:2700:LEU:HD22	1.53	0.73
1:F:1168:ARG:N	1:F:1194:ILE:O	2.21	0.73
1:B:2645:ASP:OD2	1:B:2691:SER:N	2.19	0.73
1:D:437:PRO:HG3	1:D:876:LEU:HB3	1.70	0.73
1:F:3015:ILE:HG12	1:F:3023:ARG:HG3	1.69	0.73
1:A:1220:THR:CG2	1:A:1221:PRO:N	2.46	0.73
1:C:1556:GLU:OE2	1:C:1560:ARG:NH2	2.20	0.73
1:B:2053:ALA:O	1:B:2807:ARG:NH2	2.21	0.73
1:E:1168:ARG:N	1:E:1194:ILE:O	2.21	0.73
1:A:2096:VAL:O	1:A:2099:GLN:CG	2.37	0.73
1:C:2612:PRO:O	1:D:2603:ARG:NH2	2.22	0.73
1:A:2700:LEU:HD22	1:F:2697:HIS:HD2	1.53	0.73
1:D:33:ALA:HB2	1:D:390:VAL:HA	1.70	0.73
1:F:33:ALA:HB2	1:F:390:VAL:HA	1.70	0.73
1:B:2603:ARG:NH2	1:E:2612:PRO:O	2.22	0.73
1:F:2053:ALA:O	1:F:2807:ARG:NH2	2.21	0.73
1:B:2700:LEU:HD22	1:E:2697:HIS:HD2	1.53	0.73
1:B:2883:ALA:O	1:B:2916:ARG:NH1	2.22	0.73
1:A:445:VAL:HG13	1:A:475:LEU:HD21	1.69	0.73
1:C:445:VAL:HG13	1:C:475:LEU:HD21	1.69	0.73
1:A:437:PRO:HG3	1:A:876:LEU:HB3	1.70	0.73
1:E:1003:HIS:CG	1:E:1004:VAL:N	2.53	0.73
1:F:1556:GLU:OE2	1:F:1560:ARG:NH2	2.20	0.73
1:E:2883:ALA:O	1:E:2916:ARG:NH1	2.22	0.73
1:C:2845:PHE:HD1	1:D:2731:GLY:HA2	1.54	0.73
1:F:2883:ALA:O	1:F:2916:ARG:NH1	2.22	0.73
1:B:936:ARG:HB3	1:B:941:ARG:HB3	1.71	0.73
1:A:3015:ILE:HG12	1:A:3023:ARG:HG3	1.69	0.73
1:E:2096:VAL:O	1:E:2099:GLN:CG	2.37	0.72
1:F:2096:VAL:O	1:F:2099:GLN:CG	2.37	0.72
1:B:2096:VAL:O	1:B:2099:GLN:CG	2.36	0.72
1:D:2053:ALA:O	1:D:2807:ARG:NH2	2.21	0.72
1:C:1168:ARG:N	1:C:1194:ILE:O	2.21	0.72
1:E:437:PRO:HG3	1:E:876:LEU:HB3	1.70	0.72
1:B:445:VAL:HG13	1:B:475:LEU:HD21	1.69	0.72
1:A:2731:GLY:HA2	1:F:2845:PHE:HD1	1.54	0.72
1:A:2612:PRO:O	1:F:2603:ARG:NH2	2.22	0.72
1:B:1168:ARG:N	1:B:1194:ILE:O	2.21	0.72
1:B:437:PRO:HG3	1:B:876:LEU:HB3	1.71	0.72
1:E:936:ARG:HB3	1:E:941:ARG:HB3	1.71	0.72
1:D:1400:PRO:HD2	1:D:1416:VAL:HG22	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:936:ARG:HB3	1:C:941:ARG:HB3	1.71	0.72
1:B:2998:GLY:N	1:B:3002:VAL:O	2.23	0.72
1:C:2096:VAL:O	1:C:2099:GLN:CG	2.36	0.72
1:C:2603:ARG:NH2	1:D:2612:PRO:O	2.22	0.72
1:B:2612:PRO:O	1:E:2603:ARG:NH2	2.22	0.72
1:A:2845:PHE:HD1	1:F:2731:GLY:HA2	1.54	0.72
1:C:2557:LEU:O	1:C:2613:ARG:N	2.18	0.72
1:D:1168:ARG:N	1:D:1194:ILE:O	2.21	0.72
1:D:2998:GLY:N	1:D:3002:VAL:O	2.23	0.72
1:F:70:SER:OG	1:F:142:ARG:NH2	2.23	0.72
1:B:2845:PHE:HD1	1:E:2731:GLY:HA2	1.54	0.72
1:E:2053:ALA:O	1:E:2807:ARG:NH2	2.21	0.72
1:B:2103:TRP:CG	1:B:2104:GLN:N	2.58	0.72
1:F:2103:TRP:CG	1:F:2104:GLN:N	2.58	0.72
1:D:1237:ARG:NH1	1:E:95:PRO:HB2	2.05	0.72
1:C:437:PRO:HG3	1:C:876:LEU:HB3	1.70	0.72
1:E:70:SER:OG	1:E:142:ARG:NH2	2.23	0.72
1:A:2883:ALA:O	1:A:2916:ARG:NH1	2.22	0.72
1:A:1253:ARG:HH11	1:A:1253:ARG:HG3	1.55	0.72
1:B:1218:THR:CG2	1:B:1441:GLN:OE1	2.38	0.72
1:A:2603:ARG:NH2	1:F:2612:PRO:O	2.22	0.72
1:E:1253:ARG:HH11	1:E:1253:ARG:HG3	1.55	0.72
1:C:1218:THR:CG2	1:C:1441:GLN:OE1	2.38	0.72
1:D:2883:ALA:O	1:D:2916:ARG:NH1	2.22	0.72
1:A:2053:ALA:O	1:A:2807:ARG:NH2	2.21	0.72
1:B:1400:PRO:HD2	1:B:1416:VAL:HG22	1.72	0.72
1:E:2103:TRP:CG	1:E:2104:GLN:N	2.58	0.72
1:C:2883:ALA:O	1:C:2916:ARG:NH1	2.22	0.72
1:B:33:ALA:HB2	1:B:390:VAL:HA	1.69	0.72
1:A:2998:GLY:N	1:A:3002:VAL:O	2.23	0.72
1:C:2268:GLN:OE1	1:C:2319:ARG:NH1	2.23	0.72
1:F:1253:ARG:HG3	1:F:1253:ARG:HH11	1.55	0.71
1:C:3075:LEU:HD23	1:D:2861:LEU:HD21	1.72	0.71
1:B:2268:GLN:OE1	1:B:2319:ARG:NH1	2.23	0.71
1:B:2861:LEU:HD21	1:E:3075:LEU:HD23	1.72	0.71
1:F:936:ARG:HB3	1:F:941:ARG:HB3	1.71	0.71
1:D:1253:ARG:HH11	1:D:1253:ARG:HG3	1.54	0.71
1:F:437:PRO:HG3	1:F:876:LEU:HB3	1.70	0.71
1:B:2731:GLY:HA2	1:E:2845:PHE:HD1	1.54	0.71
1:B:2697:HIS:HD2	1:E:2700:LEU:HD22	1.53	0.71
1:D:95:PRO:HB2	1:F:1237:ARG:NH1	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:936:ARG:HB3	1:A:941:ARG:HB3	1.71	0.71
1:B:1253:ARG:HH11	1:B:1253:ARG:HG3	1.54	0.71
1:F:2557:LEU:O	1:F:2613:ARG:N	2.18	0.71
1:B:70:SER:OG	1:B:142:ARG:NH2	2.23	0.71
1:A:1168:ARG:N	1:A:1194:ILE:O	2.21	0.71
1:D:1218:THR:CG2	1:D:1441:GLN:OE1	2.38	0.71
1:A:1390:PHE:HA	1:E:2282:ASP:HB3	1.72	0.71
1:A:2268:GLN:OE1	1:A:2319:ARG:NH1	2.23	0.71
1:C:2697:HIS:HD2	1:D:2700:LEU:HD22	1.53	0.71
1:F:1218:THR:CG2	1:F:1441:GLN:OE1	2.38	0.71
1:E:1218:THR:CG2	1:E:1441:GLN:OE1	2.38	0.71
1:F:2268:GLN:OE1	1:F:2319:ARG:NH1	2.23	0.71
1:C:2731:GLY:HA2	1:D:2845:PHE:HD1	1.54	0.71
1:E:2998:GLY:N	1:E:3002:VAL:O	2.23	0.71
1:C:2998:GLY:N	1:C:3002:VAL:O	2.23	0.71
1:A:1400:PRO:HD2	1:A:1416:VAL:HG22	1.72	0.71
1:A:70:SER:OG	1:A:142:ARG:NH2	2.23	0.71
1:C:70:SER:OG	1:C:142:ARG:NH2	2.23	0.71
1:A:3075:LEU:HD23	1:F:2861:LEU:HD21	1.72	0.71
1:E:1400:PRO:HD2	1:E:1416:VAL:HG22	1.72	0.71
1:D:2103:TRP:CG	1:D:2104:GLN:N	2.58	0.71
1:D:2268:GLN:OE1	1:D:2319:ARG:NH1	2.23	0.71
1:F:1400:PRO:HD2	1:F:1416:VAL:HG22	1.72	0.71
1:A:1237:ARG:NH1	1:B:95:PRO:HB2	2.05	0.71
1:A:1218:THR:CG2	1:A:1441:GLN:OE1	2.38	0.71
1:B:1390:PHE:HA	1:D:2282:ASP:HB3	1.72	0.71
1:C:1253:ARG:HH11	1:C:1253:ARG:HG3	1.54	0.71
1:B:2282:ASP:HB3	1:D:1390:PHE:HA	1.72	0.71
1:B:1237:ARG:NH1	1:C:95:PRO:HB2	2.05	0.71
1:C:1400:PRO:HD2	1:C:1416:VAL:HG22	1.72	0.71
1:E:580:ARG:HD2	1:E:614:GLY:HA3	1.73	0.71
1:F:2215:THR:HB	1:F:2229:LYS:HB2	1.73	0.71
1:A:2743:ALA:HB1	1:A:2940:VAL:HG23	1.73	0.71
1:C:2282:ASP:HB3	1:F:1390:PHE:HA	1.72	0.71
1:A:95:PRO:HB2	1:C:1237:ARG:NH1	2.05	0.71
1:F:2743:ALA:HB1	1:F:2940:VAL:HG23	1.73	0.71
1:E:2268:GLN:OE1	1:E:2319:ARG:NH1	2.23	0.70
1:D:70:SER:OG	1:D:142:ARG:NH2	2.23	0.70
1:A:1507:GLN:O	1:A:1562:ARG:NH1	2.24	0.70
1:E:1237:ARG:NH1	1:F:95:PRO:HB2	2.05	0.70
1:E:1634:ARG:HH11	1:E:1639:ALA:H	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2743:ALA:HB1	1:E:2940:VAL:HG23	1.73	0.70
1:C:2861:LEU:HD21	1:D:3075:LEU:HD23	1.72	0.70
1:D:580:ARG:HD2	1:D:614:GLY:HA3	1.73	0.70
1:C:580:ARG:HD2	1:C:614:GLY:HA3	1.72	0.70
1:B:1634:ARG:HH11	1:B:1639:ALA:H	1.39	0.70
1:E:1507:GLN:O	1:E:1562:ARG:NH1	2.24	0.70
1:D:1634:ARG:HH11	1:D:1639:ALA:H	1.39	0.70
1:F:2998:GLY:N	1:F:3002:VAL:O	2.23	0.70
1:A:974:THR:HG21	1:A:977:GLN:HB3	1.74	0.70
1:D:1003:HIS:CG	1:D:1004:VAL:N	2.53	0.70
1:D:1507:GLN:O	1:D:1562:ARG:NH1	2.24	0.70
1:A:2861:LEU:HD21	1:F:3075:LEU:HD23	1.72	0.70
1:B:2558:LEU:HG	1:B:2612:PRO:HA	1.73	0.70
1:F:2558:LEU:HG	1:F:2612:PRO:HA	1.73	0.70
1:B:3075:LEU:HD23	1:E:2861:LEU:HD21	1.72	0.70
1:B:2215:THR:HB	1:B:2229:LYS:HB2	1.74	0.70
1:C:1390:PHE:HA	1:F:2282:ASP:HB3	1.72	0.70
1:C:2860:ALA:HB3	1:C:2906:LEU:HD21	1.73	0.70
1:C:1507:GLN:O	1:C:1562:ARG:NH1	2.24	0.70
1:B:1507:GLN:O	1:B:1562:ARG:NH1	2.24	0.70
1:D:936:ARG:HB3	1:D:941:ARG:HB3	1.72	0.70
1:A:2103:TRP:CG	1:A:2104:GLN:N	2.58	0.70
1:E:2860:ALA:HB3	1:E:2906:LEU:HD21	1.73	0.70
1:D:1177:ARG:HB2	1:D:1184:LEU:HD23	1.74	0.70
1:D:2860:ALA:HB3	1:D:2906:LEU:HD21	1.73	0.70
1:A:2215:THR:HB	1:A:2229:LYS:HB2	1.74	0.70
1:C:1634:ARG:HH11	1:C:1639:ALA:H	1.39	0.70
1:F:137:VAL:HG22	1:F:354:LEU:HD13	1.74	0.70
1:A:580:ARG:HD2	1:A:614:GLY:HA3	1.73	0.70
1:E:2558:LEU:HG	1:E:2612:PRO:HA	1.74	0.70
1:F:2860:ALA:HB3	1:F:2906:LEU:HD21	1.73	0.70
1:B:2743:ALA:HB1	1:B:2940:VAL:HG23	1.73	0.70
1:B:1177:ARG:HB2	1:B:1184:LEU:HD23	1.74	0.70
1:F:580:ARG:HD2	1:F:614:GLY:HA3	1.72	0.70
1:A:2282:ASP:HB3	1:E:1390:PHE:HA	1.72	0.70
1:A:1634:ARG:HH11	1:A:1639:ALA:H	1.39	0.70
1:E:137:VAL:HG22	1:E:354:LEU:HD13	1.74	0.70
1:C:137:VAL:HG22	1:C:354:LEU:HD13	1.74	0.70
1:B:137:VAL:HG22	1:B:354:LEU:HD13	1.74	0.70
1:F:1012:GLY:O	1:F:1013:THR:CG2	2.41	0.69
1:C:2558:LEU:HG	1:C:2612:PRO:HA	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2860:ALA:HB3	1:A:2906:LEU:HD21	1.73	0.69
1:C:2215:THR:HB	1:C:2229:LYS:HB2	1.73	0.69
1:E:1724:TYR:OH	1:F:267:GLU:OE2	2.07	0.69
1:F:1507:GLN:O	1:F:1562:ARG:NH1	2.24	0.69
1:A:2558:LEU:HG	1:A:2612:PRO:HA	1.73	0.69
1:E:1035:VAL:HG12	1:E:1037:ASP:H	1.57	0.69
1:F:1177:ARG:HB2	1:F:1184:LEU:HD23	1.74	0.69
1:A:1003:HIS:CG	1:A:1004:VAL:N	2.53	0.69
1:D:1046:LEU:HD13	1:D:1129:LEU:HD22	1.75	0.69
1:D:2085:LEU:O	1:D:2088:ARG:CG	2.40	0.69
1:C:2085:LEU:O	1:C:2088:ARG:CG	2.41	0.69
1:D:2215:THR:HB	1:D:2229:LYS:HB2	1.73	0.69
1:E:1012:GLY:O	1:E:1013:THR:CG2	2.41	0.69
1:F:2946:LEU:HD11	1:F:2992:GLY:HA3	1.75	0.69
1:E:974:THR:HG21	1:E:977:GLN:HB3	1.74	0.69
1:B:2647:VAL:HG22	1:B:2769:ASP:HB2	1.75	0.69
1:C:2743:ALA:HB1	1:C:2940:VAL:HG23	1.73	0.69
1:B:2085:LEU:O	1:B:2088:ARG:CG	2.41	0.69
1:D:2946:LEU:HD11	1:D:2992:GLY:HA3	1.75	0.69
1:D:137:VAL:HG22	1:D:354:LEU:HD13	1.74	0.69
1:F:1634:ARG:HH11	1:F:1639:ALA:H	1.39	0.69
1:F:974:THR:HG21	1:F:977:GLN:HB3	1.74	0.69
1:C:1177:ARG:HB2	1:C:1184:LEU:HD23	1.74	0.69
1:B:580:ARG:HD2	1:B:614:GLY:HA3	1.73	0.69
1:F:2085:LEU:O	1:F:2088:ARG:CG	2.40	0.69
1:C:2103:TRP:CG	1:C:2104:GLN:N	2.58	0.69
1:D:2558:LEU:HG	1:D:2612:PRO:HA	1.73	0.69
1:D:2647:VAL:HG22	1:D:2769:ASP:HB2	1.75	0.69
1:A:2909:ARG:HB3	1:F:3075:LEU:HD21	1.75	0.69
1:A:1035:VAL:HG12	1:A:1037:ASP:H	1.57	0.69
1:A:137:VAL:HG22	1:A:354:LEU:HD13	1.74	0.69
1:C:1046:LEU:HD13	1:C:1129:LEU:HD22	1.75	0.69
1:C:1035:VAL:HG12	1:C:1037:ASP:H	1.57	0.69
1:E:2215:THR:HB	1:E:2229:LYS:HB2	1.73	0.69
1:A:1012:GLY:O	1:A:1013:THR:CG2	2.41	0.68
1:C:2647:VAL:HG22	1:C:2769:ASP:HB2	1.75	0.68
1:A:2702:GLY:HA3	1:F:2557:LEU:HG	1.76	0.68
1:E:1046:LEU:HD13	1:E:1129:LEU:HD22	1.75	0.68
1:F:1046:LEU:HD13	1:F:1129:LEU:HD22	1.75	0.68
1:B:1035:VAL:HG12	1:B:1037:ASP:H	1.57	0.68
1:C:974:THR:HG21	1:C:977:GLN:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2909:ARG:HB3	1:D:3075:LEU:HD21	1.76	0.68
1:D:1035:VAL:HG12	1:D:1037:ASP:H	1.57	0.68
1:A:2946:LEU:HD11	1:A:2992:GLY:HA3	1.75	0.68
1:A:1046:LEU:HD13	1:A:1129:LEU:HD22	1.75	0.68
1:D:2743:ALA:HB1	1:D:2940:VAL:HG23	1.73	0.68
1:B:2946:LEU:HD11	1:B:2992:GLY:HA3	1.75	0.68
1:D:974:THR:HG21	1:D:977:GLN:HB3	1.74	0.68
1:C:269:GLU:HB3	1:C:282:VAL:HA	1.75	0.68
1:E:340:ILE:HD13	1:E:364:THR:HG21	1.75	0.68
1:D:340:ILE:HD13	1:D:364:THR:HG21	1.75	0.68
1:D:1008:VAL:HG12	1:D:1019:PHE:HB3	1.76	0.68
1:B:511:ARG:HD3	1:B:543:GLY:HA3	1.76	0.68
1:F:2647:VAL:HG22	1:F:2769:ASP:HB2	1.75	0.68
1:B:3075:LEU:HD21	1:E:2909:ARG:HB3	1.75	0.68
1:B:1046:LEU:HD13	1:B:1129:LEU:HD22	1.75	0.68
1:E:1177:ARG:HB2	1:E:1184:LEU:HD23	1.74	0.68
1:C:1012:GLY:O	1:C:1013:THR:CG2	2.41	0.68
1:B:1002:GLN:O	1:B:1003:HIS:CG	2.47	0.68
1:C:2702:GLY:HA3	1:D:2557:LEU:HG	1.76	0.68
1:B:1164:THR:N	1:B:1167:GLY:O	2.25	0.68
1:A:1177:ARG:HB2	1:A:1184:LEU:HD23	1.74	0.68
1:A:340:ILE:HD13	1:A:364:THR:HG21	1.75	0.68
1:D:511:ARG:HD3	1:D:543:GLY:HA3	1.76	0.68
1:C:1008:VAL:HG12	1:C:1019:PHE:HB3	1.76	0.68
1:A:2085:LEU:O	1:A:2088:ARG:CG	2.41	0.68
1:D:269:GLU:HB3	1:D:282:VAL:HA	1.75	0.68
1:E:2085:LEU:O	1:E:2088:ARG:CG	2.41	0.68
1:C:1488:VAL:HG21	1:C:1580:PRO:HD2	1.76	0.68
1:B:269:GLU:HB3	1:B:282:VAL:HA	1.75	0.68
1:C:2557:LEU:HG	1:D:2702:GLY:HA3	1.76	0.68
1:F:1035:VAL:HG12	1:F:1037:ASP:H	1.57	0.68
1:C:1164:THR:N	1:C:1167:GLY:O	2.25	0.68
1:B:1012:GLY:O	1:B:1013:THR:CG2	2.41	0.68
1:D:1002:GLN:O	1:D:1003:HIS:CG	2.47	0.68
1:E:269:GLU:HB3	1:E:282:VAL:HA	1.75	0.68
1:B:2557:LEU:HG	1:E:2702:GLY:HA3	1.76	0.68
1:B:2860:ALA:HB3	1:B:2906:LEU:HD21	1.73	0.68
1:C:1002:GLN:O	1:C:1003:HIS:CG	2.47	0.67
1:A:2647:VAL:HG22	1:A:2769:ASP:HB2	1.75	0.67
1:A:2126:ALA:O	1:A:2129:PRO:CG	2.43	0.67
1:E:2946:LEU:HD11	1:E:2992:GLY:HA3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1008:VAL:HG12	1:E:1019:PHE:HB3	1.76	0.67
1:C:2946:LEU:HD11	1:C:2992:GLY:HA3	1.75	0.67
1:B:340:ILE:HD13	1:B:364:THR:HG21	1.75	0.67
1:C:340:ILE:HD13	1:C:364:THR:HG21	1.75	0.67
1:B:2112:ARG:N	1:B:2115:HIS:CG	2.57	0.67
1:E:931:VAL:CG1	1:E:933:VAL:HG12	2.25	0.67
1:E:2112:ARG:N	1:E:2115:HIS:CG	2.57	0.67
1:F:1412:HIS:ND1	1:F:1415:GLY:O	2.26	0.67
1:F:2081:GLN:O	1:F:2084:GLN:CG	2.43	0.67
1:B:974:THR:HG21	1:B:977:GLN:HB3	1.74	0.67
1:B:931:VAL:CG1	1:B:933:VAL:HG12	2.25	0.67
1:B:2909:ARG:HB3	1:E:3075:LEU:HD21	1.76	0.67
1:A:511:ARG:HD3	1:A:543:GLY:HA3	1.76	0.67
1:B:2126:ALA:O	1:B:2129:PRO:CG	2.43	0.67
1:E:2094:HIS:CG	1:E:2096:VAL:CG1	2.75	0.67
1:F:1164:THR:N	1:F:1167:GLY:O	2.25	0.67
1:D:1488:VAL:HG21	1:D:1580:PRO:HD2	1.76	0.67
1:D:1164:THR:N	1:D:1167:GLY:O	2.25	0.67
1:A:792:ALA:HA	1:A:799:PHE:HE2	1.60	0.67
1:F:792:ALA:HA	1:F:799:PHE:HE2	1.60	0.67
1:D:931:VAL:CG1	1:D:933:VAL:HG12	2.25	0.67
1:F:1002:GLN:O	1:F:1003:HIS:CG	2.47	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:F:1008:VAL:HG12	1:F:1019:PHE:HB3	1.76	0.67
1:C:2126:ALA:O	1:C:2129:PRO:CG	2.43	0.67
1:D:2112:ARG:N	1:D:2115:HIS:CG	2.57	0.67
1:C:2081:GLN:O	1:C:2084:GLN:CG	2.43	0.67
1:E:2081:GLN:O	1:E:2084:GLN:CG	2.43	0.67
1:D:2126:ALA:O	1:D:2129:PRO:CG	2.43	0.67
1:C:931:VAL:CG1	1:C:933:VAL:HG12	2.24	0.67
1:D:3080:ARG:CG	1:D:3080:ARG:HH11	2.07	0.67
1:B:1488:VAL:HG12	1:B:1490:ARG:NH1	2.10	0.67
1:D:1012:GLY:O	1:D:1013:THR:CG2	2.41	0.67
1:C:792:ALA:HA	1:C:799:PHE:HE2	1.60	0.67
1:F:269:GLU:HB3	1:F:282:VAL:HA	1.75	0.67
1:C:683:GLY:HA2	1:C:700:ASN:HB2	1.77	0.67
1:A:1008:VAL:HG12	1:A:1019:PHE:HB3	1.76	0.67
1:A:2081:GLN:O	1:A:2084:GLN:CG	2.43	0.67
1:B:3080:ARG:CG	1:B:3080:ARG:HH11	2.07	0.66
1:A:511:ARG:HB2	1:A:540:ASN:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1358:GLN:HG2	1:C:1423:THR:HG23	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:F:511:ARG:HB2	1:F:540:ASN:HB2	1.77	0.66
1:F:511:ARG:HD3	1:F:543:GLY:HA3	1.76	0.66
1:B:1412:HIS:ND1	1:B:1415:GLY:O	2.26	0.66
1:D:1488:VAL:HG12	1:D:1490:ARG:NH1	2.10	0.66
1:A:1167:GLY:HA3	1:A:1195:ARG:HA	1.78	0.66
1:D:2081:GLN:O	1:D:2084:GLN:CG	2.43	0.66
1:E:1358:GLN:HG2	1:E:1423:THR:HG23	1.78	0.66
1:B:2081:GLN:O	1:B:2084:GLN:CG	2.43	0.66
1:D:1168:ARG:HB2	1:D:1197:ARG:HB2	1.77	0.66
1:D:1167:GLY:HA3	1:D:1195:ARG:HA	1.78	0.66
1:B:666:VAL:HG21	1:B:904:VAL:HB	1.78	0.66
1:D:683:GLY:HA2	1:D:700:ASN:HB2	1.78	0.66
1:A:1002:GLN:O	1:A:1003:HIS:CG	2.47	0.66
1:A:269:GLU:HB3	1:A:282:VAL:HA	1.75	0.66
1:C:1168:ARG:HB2	1:C:1197:ARG:HB2	1.77	0.66
1:B:511:ARG:HB2	1:B:540:ASN:HB2	1.77	0.66
1:F:1488:VAL:HG12	1:F:1490:ARG:NH1	2.10	0.66
1:F:1488:VAL:HG21	1:F:1580:PRO:HD2	1.77	0.66
1:D:792:ALA:HA	1:D:799:PHE:HE2	1.60	0.66
1:A:1412:HIS:ND1	1:A:1415:GLY:O	2.25	0.66
1:E:1412:HIS:HD2	1:E:1413:PRO:HD2	1.61	0.66
1:F:1412:HIS:HD2	1:F:1413:PRO:HD2	1.61	0.66
1:E:666:VAL:HG21	1:E:904:VAL:HB	1.78	0.66
1:A:1488:VAL:HG21	1:A:1580:PRO:HD2	1.76	0.66
1:E:1132:LEU:HD11	1:E:1192:PHE:HB3	1.78	0.66
1:B:1008:VAL:HG12	1:B:1019:PHE:HB3	1.76	0.66
1:F:666:VAL:HG21	1:F:904:VAL:HB	1.78	0.66
1:C:1488:VAL:HG12	1:C:1490:ARG:NH1	2.10	0.66
1:C:1167:GLY:HA3	1:C:1195:ARG:HA	1.78	0.66
1:A:1084:THR:HG21	1:A:1274:ALA:HA	1.78	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:C:997:GLU:O	1:C:1009:PRO:N	2.29	0.66
1:F:340:ILE:HD13	1:F:364:THR:HG21	1.75	0.66
1:B:1132:LEU:HD11	1:B:1192:PHE:HB3	1.78	0.66
1:E:792:ALA:HA	1:E:799:PHE:HE2	1.60	0.66
1:B:1168:ARG:HB2	1:B:1197:ARG:HB2	1.77	0.66
1:B:1167:GLY:HA3	1:B:1195:ARG:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1167:GLY:HA3	1:E:1195:ARG:HA	1.78	0.66
1:D:2012:GLY:C	1:E:2591:ARG:HH12	1.99	0.66
1:D:997:GLU:O	1:D:1009:PRO:N	2.29	0.66
1:C:511:ARG:HD3	1:C:543:GLY:HA3	1.76	0.66
1:E:997:GLU:O	1:E:1009:PRO:N	2.29	0.66
1:D:2591:ARG:HH12	1:F:2012:GLY:C	2.00	0.66
1:E:2679:ALA:HB3	1:E:2762:VAL:HG12	1.78	0.66
1:A:2679:ALA:HB3	1:A:2762:VAL:HG12	1.78	0.66
1:A:997:GLU:O	1:A:1009:PRO:N	2.29	0.66
1:F:2094:HIS:CG	1:F:2096:VAL:CG1	2.75	0.66
1:A:931:VAL:CG2	1:A:933:VAL:HG12	2.25	0.66
1:F:931:VAL:CG1	1:F:933:VAL:HG12	2.24	0.66
1:C:3075:LEU:HD21	1:D:2909:ARG:HB3	1.75	0.66
1:D:35:VAL:HG11	1:D:147:LEU:HB3	1.77	0.66
1:F:2679:ALA:HB3	1:F:2762:VAL:HG12	1.78	0.66
1:A:3075:LEU:HD21	1:F:2909:ARG:HB3	1.75	0.66
1:D:511:ARG:HB2	1:D:540:ASN:HB2	1.77	0.66
1:F:1167:GLY:HA3	1:F:1195:ARG:HA	1.78	0.66
1:F:2126:ALA:O	1:F:2129:PRO:CG	2.43	0.66
1:F:683:GLY:HA2	1:F:700:ASN:HB2	1.78	0.66
1:E:511:ARG:HD3	1:E:543:GLY:HA3	1.76	0.66
1:E:511:ARG:HB2	1:E:540:ASN:HB2	1.78	0.66
1:C:2094:HIS:CG	1:C:2096:VAL:CG1	2.75	0.65
1:A:2557:LEU:HG	1:F:2702:GLY:HA3	1.76	0.65
1:C:2706:PRO:HG2	1:C:2709:ILE:HG23	1.79	0.65
1:B:2679:ALA:HB3	1:B:2762:VAL:HG12	1.78	0.65
1:B:1534:ASN:HB2	1:B:1543:ALA:HB3	1.78	0.65
1:A:203:ASP:OD1	1:A:204:ARG:N	2.29	0.65
1:E:2012:GLY:C	1:F:2591:ARG:HH12	2.00	0.65
1:E:1084:THR:HG21	1:E:1274:ALA:HA	1.78	0.65
1:A:1358:GLN:HG2	1:A:1423:THR:HG23	1.78	0.65
1:A:1168:ARG:HB2	1:A:1197:ARG:HB2	1.77	0.65
1:E:1488:VAL:HG12	1:E:1490:ARG:NH1	2.10	0.65
1:C:203:ASP:OD1	1:C:204:ARG:N	2.30	0.65
1:E:2706:PRO:HG2	1:E:2709:ILE:HG23	1.79	0.65
1:C:1534:ASN:HB2	1:C:1543:ALA:HB3	1.79	0.65
1:D:1084:THR:HG21	1:D:1274:ALA:HA	1.78	0.65
1:D:450:ASN:HA	1:D:483:ARG:HH11	1.62	0.65
1:D:643:ILE:HD12	1:D:915:PHE:HZ	1.62	0.65
1:D:1724:TYR:OH	1:E:267:GLU:OE2	2.08	0.65
1:C:2876:LEU:HD11	1:C:2886:ILE:HD11	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:2702:GLY:HA3	1:E:2557:LEU:HG	1.76	0.65
1:C:1412:HIS:HD2	1:C:1413:PRO:HD2	1.61	0.65
1:A:1488:VAL:HG12	1:A:1490:ARG:NH1	2.10	0.65
1:E:2876:LEU:HD11	1:E:2886:ILE:HD11	1.79	0.65
1:A:683:GLY:HA2	1:A:700:ASN:HB2	1.77	0.65
1:D:1358:GLN:HG2	1:D:1423:THR:HG23	1.78	0.65
1:B:2012:GLY:C	1:C:2591:ARG:HH12	1.99	0.65
1:E:1488:VAL:HG21	1:E:1580:PRO:HD2	1.77	0.65
1:B:997:GLU:O	1:B:1009:PRO:N	2.29	0.65
1:B:643:ILE:HD12	1:B:915:PHE:HZ	1.62	0.65
1:C:1536:ASN:HA	1:C:1679:TRP:HB3	1.78	0.65
1:A:1536:ASN:HA	1:A:1679:TRP:HB3	1.79	0.65
1:B:203:ASP:OD1	1:B:204:ARG:N	2.30	0.65
1:B:683:GLY:HA2	1:B:700:ASN:HB2	1.77	0.65
1:C:511:ARG:HB2	1:C:540:ASN:HB2	1.78	0.65
1:E:450:ASN:HA	1:E:483:ARG:HH11	1.62	0.65
1:E:203:ASP:OD1	1:E:204:ARG:N	2.30	0.65
1:A:643:ILE:HD12	1:A:915:PHE:HZ	1.62	0.65
1:B:2094:HIS:CG	1:B:2096:VAL:CG1	2.75	0.65
1:E:1168:ARG:HB2	1:E:1197:ARG:HB2	1.77	0.65
1:A:1412:HIS:HD2	1:A:1413:PRO:HD2	1.61	0.65
1:F:1132:LEU:HD11	1:F:1192:PHE:HB3	1.78	0.65
1:E:1536:ASN:HA	1:E:1679:TRP:HB3	1.79	0.65
1:A:2591:ARG:HH12	1:C:2012:GLY:C	1.99	0.65
1:F:56:LEU:HD22	1:F:119:LEU:HD13	1.79	0.65
1:D:2679:ALA:HB3	1:D:2762:VAL:HG12	1.78	0.65
1:F:1358:GLN:HG2	1:F:1423:THR:HG23	1.78	0.65
1:E:1534:ASN:HB2	1:E:1543:ALA:HB3	1.79	0.65
1:F:997:GLU:O	1:F:1009:PRO:N	2.29	0.65
1:A:929:GLU:O	1:A:930:PRO:CG	2.45	0.65
1:F:929:GLU:O	1:F:930:PRO:CG	2.45	0.65
1:F:42:GLU:HB3	1:F:349:ARG:HG3	1.79	0.65
1:B:1084:THR:HG21	1:B:1274:ALA:HA	1.78	0.65
1:A:2876:LEU:HD11	1:A:2886:ILE:HD11	1.79	0.65
1:A:2652:ILE:HG12	1:A:2722:VAL:HG22	1.79	0.65
1:F:1534:ASN:HB2	1:F:1543:ALA:HB3	1.78	0.65
1:C:3080:ARG:HH11	1:C:3080:ARG:CG	2.07	0.65
1:F:1168:ARG:HB2	1:F:1197:ARG:HB2	1.77	0.65
1:D:1412:HIS:HD2	1:D:1413:PRO:HD2	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1534:ASN:HB2	1:A:1543:ALA:HB3	1.79	0.65
1:D:2876:LEU:HD11	1:D:2886:ILE:HD11	1.79	0.65
1:A:2252:VAL:HA	1:A:2255:ARG:HE	1.62	0.65
1:C:1132:LEU:HD11	1:C:1192:PHE:HB3	1.78	0.65
1:E:35:VAL:HG11	1:E:147:LEU:HB3	1.78	0.65
1:C:666:VAL:HG21	1:C:904:VAL:HB	1.78	0.65
1:E:643:ILE:HD12	1:E:915:PHE:HZ	1.62	0.65
1:F:1084:THR:HG21	1:F:1274:ALA:HA	1.78	0.65
1:B:929:GLU:O	1:B:930:PRO:CG	2.45	0.64
1:D:42:GLU:HB3	1:D:349:ARG:HG3	1.79	0.64
1:B:1488:VAL:HG21	1:B:1580:PRO:HD2	1.77	0.64
1:A:2012:GLY:C	1:B:2591:ARG:HH12	1.99	0.64
1:C:35:VAL:HG11	1:C:147:LEU:HB3	1.78	0.64
1:F:450:ASN:HA	1:F:483:ARG:HH11	1.62	0.64
1:A:56:LEU:HD22	1:A:119:LEU:HD13	1.79	0.64
1:D:1534:ASN:HB2	1:D:1543:ALA:HB3	1.78	0.64
1:D:929:GLU:O	1:D:930:PRO:CG	2.45	0.64
1:A:793:ARG:HD3	1:A:2435:LEU:CG	2.27	0.64
1:B:1412:HIS:HD2	1:B:1413:PRO:HD2	1.61	0.64
1:D:1132:LEU:HD11	1:D:1192:PHE:HB3	1.78	0.64
1:F:35:VAL:HG11	1:F:147:LEU:HB3	1.78	0.64
1:D:666:VAL:HG21	1:D:904:VAL:HB	1.78	0.64
1:D:2652:ILE:HG12	1:D:2722:VAL:HG22	1.79	0.64
1:E:2252:VAL:HA	1:E:2255:ARG:HE	1.62	0.64
1:A:2706:PRO:HG2	1:A:2709:ILE:HG23	1.78	0.64
1:B:792:ALA:HA	1:B:799:PHE:HE2	1.60	0.64
1:C:929:GLU:O	1:C:930:PRO:CG	2.45	0.64
1:D:793:ARG:HD3	1:D:2435:LEU:CG	2.27	0.64
1:B:450:ASN:HA	1:B:483:ARG:HH11	1.62	0.64
1:C:2652:ILE:HG12	1:C:2722:VAL:HG22	1.79	0.64
1:B:42:GLU:HB3	1:B:349:ARG:HG3	1.79	0.64
1:E:2652:ILE:HG12	1:E:2722:VAL:HG22	1.79	0.64
1:A:666:VAL:HG21	1:A:904:VAL:HB	1.78	0.64
1:E:683:GLY:HA2	1:E:700:ASN:HB2	1.77	0.64
1:F:1536:ASN:HA	1:F:1679:TRP:HB3	1.78	0.64
1:C:2252:VAL:HA	1:C:2255:ARG:HE	1.62	0.64
1:A:2112:ARG:N	1:A:2115:HIS:CG	2.57	0.64
1:F:793:ARG:HD3	1:F:2435:LEU:CG	2.27	0.64
1:F:1003:HIS:CG	1:F:1004:VAL:N	2.53	0.64
1:A:1164:THR:N	1:A:1167:GLY:O	2.25	0.64
1:C:1084:THR:HG21	1:C:1274:ALA:HA	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:450:ASN:HA	1:A:483:ARG:HH11	1.62	0.64
1:F:643:ILE:HD12	1:F:915:PHE:HZ	1.62	0.64
1:F:2112:ARG:N	1:F:2115:HIS:CG	2.57	0.64
1:E:929:GLU:O	1:E:930:PRO:CG	2.45	0.64
1:D:203:ASP:OD1	1:D:204:ARG:N	2.29	0.64
1:B:793:ARG:HD3	1:B:2435:LEU:CG	2.27	0.64
1:C:793:ARG:HD3	1:C:2435:LEU:CG	2.27	0.64
1:D:2252:VAL:HA	1:D:2255:ARG:HE	1.62	0.64
1:D:2706:PRO:HG2	1:D:2709:ILE:HG23	1.79	0.64
1:F:2706:PRO:HG2	1:F:2709:ILE:HG23	1.79	0.64
1:F:203:ASP:OD1	1:F:204:ARG:N	2.29	0.64
1:C:56:LEU:HD22	1:C:119:LEU:HD13	1.79	0.64
1:F:2876:LEU:HD11	1:F:2886:ILE:HD11	1.79	0.64
1:D:2094:HIS:CG	1:D:2096:VAL:CG1	2.75	0.64
1:E:3080:ARG:CG	1:E:3080:ARG:HH11	2.07	0.64
1:C:42:GLU:HB3	1:C:349:ARG:HG3	1.79	0.64
1:F:2176:LEU:HG	1:F:2180:LYS:HE3	1.80	0.64
1:C:360:LEU:HD12	1:C:363:LEU:HD23	1.80	0.64
1:C:450:ASN:HA	1:C:483:ARG:HH11	1.62	0.64
1:C:2679:ALA:HB3	1:C:2762:VAL:HG12	1.78	0.64
1:F:2652:ILE:HG12	1:F:2722:VAL:HG22	1.79	0.64
1:B:2176:LEU:HG	1:B:2180:LYS:HE3	1.80	0.64
1:D:56:LEU:HD22	1:D:119:LEU:HD13	1.79	0.64
1:A:803:GLU:OE1	1:A:2431:THR:HG22	1.98	0.64
1:E:56:LEU:HD22	1:E:119:LEU:HD13	1.79	0.64
1:E:500:GLN:O	1:E:504:LYS:N	2.24	0.64
1:B:56:LEU:HD22	1:B:119:LEU:HD13	1.79	0.64
1:E:803:GLU:OE1	1:E:2431:THR:HG22	1.98	0.64
1:B:2876:LEU:HD11	1:B:2886:ILE:HD11	1.79	0.64
1:A:42:GLU:HB3	1:A:349:ARG:HG3	1.79	0.63
1:D:1536:ASN:HA	1:D:1679:TRP:HB3	1.79	0.63
1:B:1536:ASN:HA	1:B:1679:TRP:HB3	1.78	0.63
1:C:803:GLU:OE1	1:C:2431:THR:HG22	1.98	0.63
1:B:2252:VAL:HA	1:B:2255:ARG:HE	1.62	0.63
1:A:974:THR:CG2	1:A:977:GLN:HB3	2.29	0.63
1:B:1072:TRP:NE1	1:B:1077:VAL:HG22	2.14	0.63
1:C:643:ILE:HD12	1:C:915:PHE:HZ	1.62	0.63
1:F:2297:ARG:HD3	1:F:2297:ARG:H	1.64	0.63
1:E:2948:GLN:HG2	1:E:2951:ARG:HH21	1.64	0.63
1:E:793:ARG:HD3	1:E:2435:LEU:CG	2.27	0.63
1:A:3073:MET:O	1:F:2865:ARG:NH2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2865:ARG:NH2	1:E:3073:MET:O	2.32	0.63
1:C:2173:ASP:OD2	1:C:2799:LYS:NZ	2.32	0.63
1:F:1376:VAL:HA	1:F:1470:LEU:HD13	1.81	0.63
1:E:1376:VAL:HA	1:E:1470:LEU:HD13	1.81	0.63
1:B:2652:ILE:HG12	1:B:2722:VAL:HG22	1.79	0.63
1:E:238:SER:OG	1:E:249:THR:OG1	2.15	0.63
1:A:2094:HIS:CG	1:A:2096:VAL:CG1	2.75	0.63
1:B:3073:MET:O	1:E:2865:ARG:NH2	2.32	0.63
1:A:2865:ARG:NH2	1:F:3073:MET:O	2.32	0.63
1:E:1417:LEU:O	1:E:1423:THR:OG1	2.14	0.63
1:A:1417:LEU:O	1:A:1423:THR:OG1	2.14	0.63
1:A:892:ILE:HG22	2:A:4000:FMN:HM82	1.80	0.63
1:C:1412:HIS:ND1	1:C:1415:GLY:O	2.26	0.63
1:E:1622:PRO:HD3	1:E:1685:LEU:HD11	1.81	0.63
1:A:1622:PRO:HD3	1:A:1685:LEU:HD11	1.81	0.63
1:E:585:HIS:CD2	1:E:586:SER:H	2.17	0.63
1:B:2706:PRO:HG2	1:B:2709:ILE:HG23	1.79	0.63
1:B:2173:ASP:OD2	1:B:2799:LYS:NZ	2.32	0.63
1:E:974:THR:CG2	1:E:977:GLN:HB3	2.29	0.63
1:C:2865:ARG:NH2	1:D:3073:MET:O	2.32	0.63
1:F:750:LEU:HD12	1:F:827:LEU:HD11	1.81	0.63
1:F:1315:ARG:HH21	1:F:1323:GLU:HG2	1.64	0.63
1:A:939:ALA:O	1:A:940:ARG:CG	2.47	0.63
1:B:585:HIS:CD2	1:B:586:SER:H	2.17	0.63
1:E:1315:ARG:HH21	1:E:1323:GLU:HG2	1.64	0.63
1:F:892:ILE:HG22	2:F:4000:FMN:HM82	1.80	0.63
1:B:664:LEU:HD13	1:B:701:ALA:HB1	1.81	0.63
1:E:2096:VAL:HG13	1:E:2097:ALA:N	2.14	0.63
1:C:2112:ARG:N	1:C:2115:HIS:CG	2.57	0.63
1:C:974:THR:CG2	1:C:977:GLN:HB3	2.29	0.63
1:D:974:THR:CG2	1:D:977:GLN:HB3	2.29	0.63
1:D:1072:TRP:NE1	1:D:1077:VAL:HG22	2.14	0.63
1:B:2092:THR:HA	1:B:2189:PHE:HB2	1.81	0.63
1:A:2752:ASP:HB3	1:F:2752:ASP:HB3	1.81	0.63
1:E:892:ILE:HG22	2:E:4000:FMN:HM82	1.80	0.63
1:F:585:HIS:CD2	1:F:586:SER:H	2.17	0.63
1:D:2176:LEU:HG	1:D:2180:LYS:HE3	1.80	0.63
1:B:2948:GLN:HG2	1:B:2951:ARG:HH21	1.64	0.63
1:A:585:HIS:CD2	1:A:586:SER:H	2.17	0.63
1:F:2092:THR:HA	1:F:2189:PHE:HB2	1.81	0.63
1:B:750:LEU:HD12	1:B:827:LEU:HD11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:939:ALA:O	1:D:940:ARG:CG	2.47	0.63
1:B:1315:ARG:HH21	1:B:1323:GLU:HG2	1.64	0.63
1:F:2047:THR:OG1	1:F:2205:ASP:OD2	2.17	0.63
1:F:974:THR:CG2	1:F:977:GLN:HB3	2.29	0.63
1:B:974:THR:CG2	1:B:977:GLN:HB3	2.29	0.63
1:C:3073:MET:O	1:D:2865:ARG:NH2	2.32	0.63
1:E:2092:THR:HA	1:E:2189:PHE:HB2	1.81	0.63
1:F:1095:LEU:HD12	1:F:1096:THR:H	1.64	0.63
1:D:2173:ASP:OD2	1:D:2799:LYS:NZ	2.32	0.63
1:F:2252:VAL:HA	1:F:2255:ARG:HE	1.62	0.63
1:E:360:LEU:HD12	1:E:363:LEU:HD23	1.80	0.63
1:D:2948:GLN:HG2	1:D:2951:ARG:HH21	1.64	0.63
1:F:803:GLU:OE1	1:F:2431:THR:HG22	1.98	0.63
1:A:2092:THR:HA	1:A:2189:PHE:HB2	1.81	0.63
1:D:750:LEU:HD12	1:D:827:LEU:HD11	1.81	0.63
1:B:2086:SER:O	1:B:2089:PHE:CG	2.52	0.62
1:A:2086:SER:O	1:A:2089:PHE:CG	2.52	0.62
1:A:2092:THR:O	1:A:2092:THR:HG23	1.99	0.62
1:A:2297:ARG:HD3	1:A:2297:ARG:H	1.64	0.62
1:E:939:ALA:O	1:E:940:ARG:CG	2.47	0.62
1:B:803:GLU:OE1	1:B:2431:THR:HG22	1.98	0.62
1:B:1702:GLU:OE2	1:B:1711:VAL:HG13	1.99	0.62
1:B:2047:THR:OG1	1:B:2205:ASP:OD2	2.17	0.62
1:D:2297:ARG:HD3	1:D:2297:ARG:H	1.64	0.62
1:E:2176:LEU:HG	1:E:2180:LYS:HE3	1.80	0.62
1:E:1702:GLU:OE2	1:E:1711:VAL:HG13	1.99	0.62
1:C:1376:VAL:HA	1:C:1470:LEU:HD13	1.81	0.62
1:D:2096:VAL:HG13	1:D:2097:ALA:N	2.14	0.62
1:E:1072:TRP:NE1	1:E:1077:VAL:HG22	2.14	0.62
1:C:1072:TRP:NE1	1:C:1077:VAL:HG22	2.14	0.62
1:D:500:GLN:O	1:D:504:LYS:N	2.24	0.62
1:C:1095:LEU:HD12	1:C:1096:THR:H	1.64	0.62
1:B:939:ALA:O	1:B:940:ARG:CG	2.47	0.62
1:C:939:ALA:O	1:C:940:ARG:CG	2.47	0.62
1:A:2173:ASP:OD2	1:A:2799:LYS:NZ	2.32	0.62
1:E:2297:ARG:H	1:E:2297:ARG:HD3	1.64	0.62
1:D:1376:VAL:HA	1:D:1470:LEU:HD13	1.81	0.62
1:F:2096:VAL:HG13	1:F:2097:ALA:N	2.14	0.62
1:C:924:LEU:O	1:C:929:GLU:N	2.30	0.62
1:E:42:GLU:HB3	1:E:349:ARG:HG3	1.79	0.62
1:A:1072:TRP:NE1	1:A:1077:VAL:HG22	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:932:GLU:O	1:E:936:ARG:CG	2.48	0.62
1:B:2092:THR:O	1:B:2092:THR:HG23	1.99	0.62
1:C:1315:ARG:HH21	1:C:1323:GLU:HG2	1.64	0.62
1:D:1622:PRO:HD3	1:D:1685:LEU:HD11	1.81	0.62
1:D:1095:LEU:HD12	1:D:1096:THR:H	1.64	0.62
1:C:585:HIS:CD2	1:C:586:SER:H	2.17	0.62
1:F:2086:SER:O	1:F:2089:PHE:CG	2.52	0.62
1:B:1417:LEU:O	1:B:1423:THR:OG1	2.14	0.62
1:D:1417:LEU:O	1:D:1423:THR:OG1	2.14	0.62
1:C:2092:THR:O	1:C:2092:THR:HG23	1.99	0.62
1:F:939:ALA:O	1:F:940:ARG:CG	2.47	0.62
1:B:1376:VAL:HA	1:B:1470:LEU:HD13	1.81	0.62
1:B:1095:LEU:HD12	1:B:1096:THR:H	1.64	0.62
1:A:3080:ARG:HH11	1:A:3080:ARG:CG	2.07	0.62
1:C:932:GLU:O	1:C:936:ARG:CG	2.48	0.62
1:D:2086:SER:O	1:D:2089:PHE:CG	2.52	0.62
1:B:360:LEU:HD12	1:B:363:LEU:HD23	1.80	0.62
1:E:664:LEU:HD13	1:E:701:ALA:HB1	1.81	0.62
1:B:1431:ALA:HB3	1:B:1459:THR:HG21	1.82	0.62
1:D:2047:THR:OG1	1:D:2205:ASP:OD2	2.17	0.62
1:F:1431:ALA:HB3	1:F:1459:THR:HG21	1.82	0.62
1:A:1315:ARG:HH21	1:A:1323:GLU:HG2	1.64	0.62
1:C:1622:PRO:HD3	1:C:1685:LEU:HD11	1.81	0.62
1:B:892:ILE:HG22	2:B:4000:FMN:HM82	1.80	0.62
1:B:932:GLU:O	1:B:936:ARG:CG	2.47	0.62
1:F:932:GLU:O	1:F:936:ARG:CG	2.48	0.62
1:F:2765:GLY:HA2	1:F:2940:VAL:HG21	1.82	0.62
1:D:932:GLU:O	1:D:936:ARG:CG	2.47	0.62
1:B:1725:SER:HB3	1:C:260:LEU:HD13	1.82	0.62
1:A:1725:SER:HB3	1:B:260:LEU:HD13	1.82	0.62
1:C:2047:THR:OG1	1:C:2205:ASP:OD2	2.17	0.62
1:F:1702:GLU:OE2	1:F:1711:VAL:HG13	1.99	0.62
1:F:971:ALA:O	1:F:974:THR:CG2	2.48	0.62
1:A:971:ALA:O	1:A:974:THR:CG2	2.48	0.62
1:E:2092:THR:HG23	1:E:2092:THR:O	1.99	0.62
1:A:1431:ALA:HB3	1:A:1459:THR:HG21	1.82	0.62
1:D:803:GLU:OE1	1:D:2431:THR:HG22	1.98	0.62
1:B:2297:ARG:H	1:B:2297:ARG:HD3	1.64	0.62
1:F:360:LEU:HD12	1:F:363:LEU:HD23	1.80	0.62
1:D:585:HIS:CD2	1:D:586:SER:H	2.17	0.62
1:A:2047:THR:OG1	1:A:2205:ASP:OD2	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1315:ARG:HH21	1:D:1323:GLU:HG2	1.64	0.62
1:D:892:ILE:HG22	2:D:4000:FMN:HM82	1.80	0.62
1:C:2237:LEU:HB2	1:C:2287:LEU:HD11	1.82	0.62
1:E:1013:THR:CG2	1:E:1014:TRP:H	1.96	0.62
1:A:2096:VAL:HG13	1:A:2097:ALA:N	2.14	0.62
1:B:2610:ARG:HB2	1:E:2558:LEU:HD21	1.82	0.62
1:B:2558:LEU:HD21	1:E:2610:ARG:HB2	1.82	0.62
1:E:1695:LEU:CD2	1:F:257:ARG:HH12	2.13	0.62
1:F:1072:TRP:NE1	1:F:1077:VAL:HG22	2.14	0.62
1:A:932:GLU:O	1:A:936:ARG:CG	2.48	0.62
1:B:2765:GLY:HA2	1:B:2940:VAL:HG21	1.81	0.62
1:E:2047:THR:OG1	1:E:2205:ASP:OD2	2.17	0.62
1:D:664:LEU:HD13	1:D:701:ALA:HB1	1.81	0.62
1:B:2096:VAL:HG13	1:B:2097:ALA:N	2.14	0.62
1:C:971:ALA:O	1:C:974:THR:CG2	2.48	0.62
1:D:971:ALA:O	1:D:974:THR:CG2	2.48	0.62
1:F:2092:THR:O	1:F:2092:THR:HG23	1.99	0.62
1:F:1353:PRO:HG3	1:F:1702:GLU:OE2	2.00	0.62
1:B:1622:PRO:HD3	1:B:1685:LEU:HD11	1.81	0.62
1:C:892:ILE:HG22	2:C:4000:FMN:HM82	1.80	0.62
1:A:1095:LEU:HD12	1:A:1096:THR:H	1.64	0.62
1:C:2752:ASP:HB3	1:D:2752:ASP:HB3	1.81	0.62
1:D:2092:THR:HA	1:D:2189:PHE:HB2	1.81	0.62
1:D:3058:ARG:HB2	1:D:3089:LEU:HB2	1.82	0.62
1:A:2176:LEU:HG	1:A:2180:LYS:HE3	1.80	0.62
1:A:1702:GLU:OE2	1:A:1711:VAL:HG13	1.99	0.62
1:A:1695:LEU:CD2	1:B:257:ARG:HH12	2.13	0.61
1:D:1412:HIS:ND1	1:D:1415:GLY:O	2.26	0.61
1:C:203:ASP:O	1:C:205:PRO:HD3	2.00	0.61
1:A:360:LEU:HD12	1:A:363:LEU:HD23	1.80	0.61
1:F:2237:LEU:HB2	1:F:2287:LEU:HD11	1.82	0.61
1:A:34:LEU:H	1:A:393:VAL:HG21	1.65	0.61
1:E:1095:LEU:HD12	1:E:1096:THR:H	1.64	0.61
1:D:2237:LEU:HB2	1:D:2287:LEU:HD11	1.82	0.61
1:F:34:LEU:O	1:F:38:LEU:N	2.25	0.61
1:F:924:LEU:O	1:F:929:GLU:N	2.30	0.61
1:E:2765:GLY:HA2	1:E:2940:VAL:HG21	1.82	0.61
1:C:2086:SER:O	1:C:2089:PHE:CG	2.52	0.61
1:D:360:LEU:HD12	1:D:363:LEU:HD23	1.80	0.61
1:E:2086:SER:O	1:E:2089:PHE:CG	2.53	0.61
1:C:1417:LEU:O	1:C:1423:THR:OG1	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:203:ASP:O	1:B:205:PRO:HD3	2.01	0.61
1:A:1353:PRO:HG3	1:A:1702:GLU:OE2	2.00	0.61
1:F:34:LEU:H	1:F:393:VAL:HG21	1.65	0.61
1:D:1725:SER:HB3	1:E:260:LEU:HD13	1.82	0.61
1:B:34:LEU:H	1:B:393:VAL:HG21	1.65	0.61
1:B:3058:ARG:HB2	1:B:3089:LEU:HB2	1.82	0.61
1:E:2173:ASP:OD2	1:E:2799:LYS:NZ	2.32	0.61
1:D:164:ALA:HA	1:D:178:LEU:HD13	1.82	0.61
1:B:680:ALA:HA	1:B:685:ALA:HB2	1.83	0.61
1:C:238:SER:OG	1:C:249:THR:OG1	2.15	0.61
1:F:1622:PRO:HD3	1:F:1685:LEU:HD11	1.81	0.61
1:C:680:ALA:HA	1:C:685:ALA:HB2	1.83	0.61
1:C:409:LYS:HD2	1:C:933:VAL:HA	1.82	0.61
1:A:257:ARG:HH12	1:C:1695:LEU:CD2	2.13	0.61
1:C:2765:GLY:HA2	1:C:2940:VAL:HG21	1.82	0.61
1:F:203:ASP:O	1:F:205:PRO:HD3	2.00	0.61
1:F:2948:GLN:HG2	1:F:2951:ARG:HH21	1.64	0.61
1:B:2237:LEU:HB2	1:B:2287:LEU:HD11	1.82	0.61
1:F:2173:ASP:OD2	1:F:2799:LYS:NZ	2.32	0.61
1:C:2096:VAL:HG13	1:C:2097:ALA:N	2.14	0.61
1:D:409:LYS:HD2	1:D:933:VAL:HA	1.82	0.61
1:B:1695:LEU:CD2	1:C:257:ARG:HH12	2.13	0.61
1:A:260:LEU:HD13	1:C:1725:SER:HB3	1.82	0.61
1:A:750:LEU:HD12	1:A:827:LEU:HD11	1.81	0.61
1:D:1353:PRO:HG3	1:D:1702:GLU:OE2	2.00	0.61
1:D:260:LEU:HD13	1:F:1725:SER:HB3	1.82	0.61
1:C:2469:LEU:HD11	1:C:2653:VAL:HB	1.82	0.61
1:C:2948:GLN:HG2	1:C:2951:ARG:HH21	1.64	0.61
1:C:34:LEU:O	1:C:38:LEU:N	2.25	0.61
1:A:2469:LEU:HD11	1:A:2653:VAL:HB	1.83	0.61
1:D:106:ALA:HB1	1:D:112:PRO:HB2	1.82	0.61
1:C:2558:LEU:HD21	1:D:2610:ARG:HB2	1.82	0.61
1:D:2765:GLY:HA2	1:D:2940:VAL:HG21	1.82	0.61
1:C:511:ARG:HH11	1:C:543:GLY:HA3	1.65	0.61
1:E:1353:PRO:HG3	1:E:1702:GLU:OE2	2.00	0.61
1:C:2092:THR:HA	1:C:2189:PHE:HB2	1.81	0.61
1:C:1702:GLU:OE2	1:C:1711:VAL:HG13	1.99	0.61
1:A:664:LEU:HD13	1:A:701:ALA:HB1	1.81	0.61
1:B:971:ALA:O	1:B:974:THR:CG2	2.48	0.61
1:D:257:ARG:HH12	1:F:1695:LEU:CD2	2.13	0.61
1:D:2212:TRP:HA	1:D:2229:LYS:HD3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2334:HIS:HD2	1:B:2391:LYS:HG3	1.66	0.61
1:D:1702:GLU:OE2	1:D:1711:VAL:HG13	1.99	0.61
1:C:1353:PRO:HG3	1:C:1702:GLU:OE2	2.00	0.61
1:B:438:THR:HA	1:B:880:HIS:HE1	1.66	0.61
1:A:2948:GLN:HG2	1:A:2951:ARG:HH21	1.64	0.61
1:C:2372:MET:HB3	1:C:2394:LEU:HD22	1.83	0.61
1:C:106:ALA:HB1	1:C:112:PRO:HB2	1.82	0.61
1:C:2297:ARG:HD3	1:C:2297:ARG:H	1.64	0.61
1:A:438:THR:HA	1:A:880:HIS:HE1	1.66	0.61
1:E:2212:TRP:HA	1:E:2229:LYS:HD3	1.83	0.61
1:B:511:ARG:HH11	1:B:543:GLY:HA3	1.65	0.61
1:A:511:ARG:HH11	1:A:543:GLY:HA3	1.66	0.61
1:E:203:ASP:O	1:E:205:PRO:HD3	2.01	0.61
1:D:203:ASP:O	1:D:205:PRO:HD3	2.01	0.61
1:D:2092:THR:O	1:D:2092:THR:HG23	1.99	0.61
1:E:488:ASN:HA	1:E:521:VAL:HB	1.83	0.61
1:D:680:ALA:HA	1:D:685:ALA:HB2	1.83	0.61
1:C:438:THR:HA	1:C:880:HIS:HE1	1.66	0.61
1:D:2469:LEU:HD11	1:D:2653:VAL:HB	1.82	0.61
1:C:3058:ARG:HB2	1:C:3089:LEU:HB2	1.82	0.61
1:D:924:LEU:O	1:D:929:GLU:N	2.30	0.61
1:B:1353:PRO:HG3	1:B:1702:GLU:OE2	2.00	0.61
1:C:980:GLU:HB2	1:C:989:HIS:HB2	1.83	0.61
1:C:664:LEU:HD13	1:C:701:ALA:HB1	1.81	0.61
1:D:438:THR:HA	1:D:880:HIS:HE1	1.66	0.61
1:B:106:ALA:HB1	1:B:112:PRO:HB2	1.82	0.61
1:C:2176:LEU:HG	1:C:2180:LYS:HE3	1.80	0.61
1:F:164:ALA:HA	1:F:178:LEU:HD13	1.82	0.61
1:E:1431:ALA:HB3	1:E:1459:THR:HG21	1.82	0.61
1:E:750:LEU:HD12	1:E:827:LEU:HD11	1.81	0.61
1:A:2610:ARG:HB2	1:F:2558:LEU:HD21	1.82	0.61
1:C:2212:TRP:HA	1:C:2229:LYS:HD3	1.83	0.61
1:F:1417:LEU:O	1:F:1423:THR:OG1	2.14	0.61
1:A:1376:VAL:HA	1:A:1470:LEU:HD13	1.81	0.61
1:D:575:HIS:HD2	1:D:644:LEU:HD22	1.66	0.61
1:C:750:LEU:HD12	1:C:827:LEU:HD11	1.81	0.61
1:F:664:LEU:HD13	1:F:701:ALA:HB1	1.81	0.61
1:D:488:ASN:HA	1:D:521:VAL:HB	1.83	0.61
1:F:126:VAL:HG12	1:F:182:ALA:HB1	1.83	0.61
1:E:409:LYS:HD2	1:E:933:VAL:HA	1.82	0.61
1:F:1098:VAL:HG12	1:F:1100:ASP:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3058:ARG:HB2	1:A:3089:LEU:HB2	1.82	0.61
1:E:2237:LEU:HB2	1:E:2287:LEU:HD11	1.82	0.61
1:B:2752:ASP:HB3	1:E:2752:ASP:HB3	1.81	0.61
1:C:488:ASN:HA	1:C:521:VAL:HB	1.83	0.61
1:E:438:THR:HA	1:E:880:HIS:HE1	1.66	0.61
1:F:680:ALA:HA	1:F:685:ALA:HB2	1.83	0.61
1:A:575:HIS:HD2	1:A:644:LEU:HD22	1.66	0.61
1:B:126:VAL:HG12	1:B:182:ALA:HB1	1.83	0.61
1:E:2372:MET:HB3	1:E:2394:LEU:HD22	1.83	0.61
1:E:575:HIS:HD2	1:E:644:LEU:HD22	1.66	0.61
1:A:2112:ARG:CG	1:A:2114:VAL:HG12	2.31	0.60
1:B:409:LYS:HD2	1:B:933:VAL:HA	1.82	0.60
1:F:2647:VAL:HA	1:F:2650:TRP:HD1	1.66	0.60
1:F:2334:HIS:HD2	1:F:2391:LYS:HG3	1.66	0.60
1:F:575:HIS:HD2	1:F:644:LEU:HD22	1.66	0.60
1:C:2712:GLU:HA	1:C:2717:VAL:HG11	1.83	0.60
1:B:2469:LEU:HD11	1:B:2653:VAL:HB	1.82	0.60
1:C:1431:ALA:HB3	1:C:1459:THR:HG21	1.82	0.60
1:F:980:GLU:HB2	1:F:989:HIS:HB2	1.83	0.60
1:E:1725:SER:HB3	1:F:260:LEU:HD13	1.82	0.60
1:F:3058:ARG:HB2	1:F:3089:LEU:HB2	1.82	0.60
1:E:580:ARG:HG2	1:E:590:LEU:HD21	1.83	0.60
1:C:2431:THR:HG23	1:C:2431:THR:O	2.01	0.60
1:C:1098:VAL:HG12	1:C:1100:ASP:H	1.66	0.60
1:E:2334:HIS:HD2	1:E:2391:LYS:HG3	1.66	0.60
1:D:688:ARG:O	1:D:872:ARG:NE	2.34	0.60
1:C:2749:GLU:HB3	1:D:2749:GLU:OE2	2.02	0.60
1:E:164:ALA:HA	1:E:178:LEU:HD13	1.82	0.60
1:A:2712:GLU:HA	1:A:2717:VAL:HG11	1.83	0.60
1:E:3058:ARG:HB2	1:E:3089:LEU:HB2	1.82	0.60
1:D:2112:ARG:CG	1:D:2114:VAL:HG12	2.31	0.60
1:E:971:ALA:O	1:E:974:THR:CG2	2.48	0.60
1:F:409:LYS:HD2	1:F:933:VAL:HA	1.82	0.60
1:B:980:GLU:HB2	1:B:989:HIS:HB2	1.83	0.60
1:F:2800:PHE:HE1	1:F:2812:LEU:HD22	1.67	0.60
1:B:575:HIS:HD2	1:B:644:LEU:HD22	1.66	0.60
1:C:2610:ARG:HB2	1:D:2558:LEU:HD21	1.82	0.60
1:A:2558:LEU:HD21	1:F:2610:ARG:HB2	1.82	0.60
1:C:2647:VAL:HA	1:C:2650:TRP:HD1	1.66	0.60
1:A:2212:TRP:HA	1:A:2229:LYS:HD3	1.83	0.60
1:D:511:ARG:HH11	1:D:543:GLY:HA3	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1537:LEU:HB2	1:F:1541:GLN:H	1.67	0.60
1:B:1532:ILE:HA	1:B:1544:ILE:HG12	1.83	0.60
1:B:2372:MET:HB3	1:B:2394:LEU:HD22	1.83	0.60
1:A:488:ASN:HA	1:A:521:VAL:HB	1.83	0.60
1:C:1532:ILE:HA	1:C:1544:ILE:HG12	1.83	0.60
1:D:1532:ILE:HA	1:D:1544:ILE:HG12	1.83	0.60
1:C:126:VAL:HG12	1:C:182:ALA:HB1	1.83	0.60
1:A:2372:MET:HB3	1:A:2394:LEU:HD22	1.83	0.60
1:E:1412:HIS:ND1	1:E:1415:GLY:O	2.26	0.60
1:D:580:ARG:HG2	1:D:590:LEU:HD21	1.83	0.60
1:E:2820:ILE:HD13	1:E:2943:MET:HG2	1.84	0.60
1:E:1537:LEU:HB2	1:E:1541:GLN:H	1.67	0.60
1:A:2056:PHE:HZ	1:A:2180:LYS:HE2	1.67	0.60
1:C:34:LEU:H	1:C:393:VAL:HG21	1.65	0.60
1:E:106:ALA:HB1	1:E:112:PRO:HB2	1.82	0.60
1:D:980:GLU:HB2	1:D:989:HIS:HB2	1.83	0.60
1:E:2686:MET:HE1	1:E:2935:LYS:HG3	1.83	0.60
1:F:2469:LEU:HD11	1:F:2653:VAL:HB	1.82	0.60
1:C:688:ARG:O	1:C:872:ARG:NE	2.34	0.60
1:A:409:LYS:HD2	1:A:933:VAL:HA	1.82	0.60
1:A:2765:GLY:HA2	1:A:2940:VAL:HG21	1.82	0.60
1:A:203:ASP:O	1:A:205:PRO:HD3	2.01	0.60
1:A:1537:LEU:HB2	1:A:1541:GLN:H	1.67	0.60
1:D:1431:ALA:HB3	1:D:1459:THR:HG21	1.82	0.60
1:B:688:ARG:O	1:B:872:ARG:NE	2.34	0.60
1:B:670:GLY:O	1:B:682:ASN:ND2	2.35	0.60
1:D:2686:MET:HE1	1:D:2935:LYS:HG3	1.83	0.60
1:A:980:GLU:HB2	1:A:989:HIS:HB2	1.83	0.60
1:A:2237:LEU:HB2	1:A:2287:LEU:HD11	1.82	0.60
1:A:164:ALA:HA	1:A:178:LEU:HD13	1.82	0.60
1:F:2112:ARG:CG	1:F:2114:VAL:HG12	2.31	0.60
1:E:1309:VAL:HG22	1:E:1331:ILE:HG12	1.84	0.60
1:A:580:ARG:HG2	1:A:590:LEU:HD21	1.83	0.60
1:F:580:ARG:HG2	1:F:590:LEU:HD21	1.83	0.60
1:F:2962:ASP:N	1:F:2962:ASP:OD1	2.34	0.60
1:D:2334:HIS:HD2	1:D:2391:LYS:HG3	1.66	0.60
1:E:2056:PHE:HZ	1:E:2180:LYS:HE2	1.67	0.60
1:D:1098:VAL:HG12	1:D:1100:ASP:H	1.66	0.60
1:C:1537:LEU:HB2	1:C:1541:GLN:H	1.67	0.60
1:A:106:ALA:HB1	1:A:112:PRO:HB2	1.82	0.60
1:D:34:LEU:H	1:D:393:VAL:HG21	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:670:GLY:O	1:D:682:ASN:ND2	2.35	0.60
1:B:34:LEU:O	1:B:38:LEU:N	2.25	0.60
1:C:2800:PHE:HE1	1:C:2812:LEU:HD22	1.67	0.60
1:D:687:GLY:O	1:D:695:ILE:N	2.34	0.60
1:C:1989:PHE:HD1	1:C:1992:LYS:HZ3	1.50	0.60
1:A:680:ALA:HA	1:A:685:ALA:HB2	1.83	0.60
1:E:2712:GLU:HA	1:E:2717:VAL:HG11	1.83	0.60
1:C:1435:VAL:HG11	1:C:1463:CYS:HB3	1.84	0.60
1:B:687:GLY:O	1:B:695:ILE:N	2.34	0.60
1:C:687:GLY:O	1:C:695:ILE:N	2.34	0.60
1:F:511:ARG:HH11	1:F:543:GLY:HA3	1.66	0.60
1:F:2056:PHE:HZ	1:F:2180:LYS:HE2	1.67	0.60
1:B:1098:VAL:HG12	1:B:1100:ASP:H	1.66	0.60
1:C:2056:PHE:HZ	1:C:2180:LYS:HE2	1.67	0.60
1:E:410:LEU:HB3	1:E:1025:VAL:HG21	1.83	0.60
1:D:2800:PHE:HE1	1:D:2812:LEU:HD22	1.67	0.60
1:F:488:ASN:HA	1:F:521:VAL:HB	1.83	0.60
1:C:1701:VAL:HG22	1:C:1732:LEU:HB2	1.84	0.60
1:E:670:GLY:O	1:E:682:ASN:ND2	2.35	0.60
1:E:980:GLU:HB2	1:E:989:HIS:HB2	1.83	0.60
1:A:1989:PHE:HD1	1:A:1992:LYS:HZ3	1.49	0.60
1:B:410:LEU:HB3	1:B:1025:VAL:HG21	1.84	0.60
1:A:795:HIS:HB3	1:A:799:PHE:CZ	2.37	0.60
1:E:795:HIS:HB3	1:E:799:PHE:CZ	2.37	0.60
1:A:1309:VAL:HG22	1:A:1331:ILE:HG12	1.84	0.60
1:B:580:ARG:HG2	1:B:590:LEU:HD21	1.83	0.60
1:E:2431:THR:O	1:E:2431:THR:HG23	2.01	0.60
1:F:2431:THR:HG23	1:F:2431:THR:O	2.01	0.60
1:B:2431:THR:O	1:B:2431:THR:HG23	2.01	0.60
1:A:1532:ILE:HA	1:A:1544:ILE:HG12	1.83	0.60
1:B:1435:VAL:HG11	1:B:1463:CYS:HB3	1.84	0.60
1:B:2749:GLU:OE2	1:E:2749:GLU:HB3	2.02	0.60
1:D:2651:ASN:HD22	1:D:2718:VAL:HG12	1.67	0.60
1:E:680:ALA:HA	1:E:685:ALA:HB2	1.83	0.60
1:F:106:ALA:HB1	1:F:112:PRO:HB2	1.82	0.60
1:B:836:VAL:HG12	1:B:837:VAL:H	1.67	0.60
1:F:2712:GLU:HA	1:F:2717:VAL:HG11	1.83	0.60
1:C:575:HIS:HD2	1:C:644:LEU:HD22	1.65	0.60
1:F:438:THR:HA	1:F:880:HIS:HE1	1.66	0.60
1:E:34:LEU:H	1:E:393:VAL:HG21	1.65	0.60
1:B:2800:PHE:HE1	1:B:2812:LEU:HD22	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2461:VAL:HG11	1:A:2751:VAL:HG22	1.84	0.60
1:E:2112:ARG:CG	1:E:2114:VAL:HG12	2.31	0.59
1:B:1013:THR:CG2	1:B:1014:TRP:N	2.58	0.59
1:C:795:HIS:HB3	1:C:799:PHE:CZ	2.37	0.59
1:B:1309:VAL:HG22	1:B:1331:ILE:HG12	1.84	0.59
1:D:1695:LEU:CD2	1:E:257:ARG:HH12	2.13	0.59
1:E:2647:VAL:HA	1:E:2650:TRP:HD1	1.66	0.59
1:B:2212:TRP:HA	1:B:2229:LYS:HD3	1.83	0.59
1:F:2820:ILE:HD13	1:F:2943:MET:HG2	1.84	0.59
1:B:2962:ASP:N	1:B:2962:ASP:OD1	2.34	0.59
1:A:1098:VAL:HG12	1:A:1100:ASP:H	1.66	0.59
1:D:1701:VAL:HG22	1:D:1732:LEU:HB2	1.84	0.59
1:C:2686:MET:HE1	1:C:2935:LYS:HG3	1.83	0.59
1:E:2469:LEU:HD11	1:E:2653:VAL:HB	1.82	0.59
1:B:2112:ARG:CG	1:B:2114:VAL:HG12	2.31	0.59
1:C:2334:HIS:HD2	1:C:2391:LYS:HG3	1.66	0.59
1:F:2667:THR:HG21	1:F:3058:ARG:NH1	2.17	0.59
1:B:2749:GLU:HB3	1:E:2749:GLU:OE2	2.02	0.59
1:F:836:VAL:HG12	1:F:837:VAL:H	1.67	0.59
1:B:164:ALA:HA	1:B:178:LEU:HD13	1.82	0.59
1:D:2461:VAL:HG11	1:D:2751:VAL:HG22	1.84	0.59
1:E:687:GLY:O	1:E:695:ILE:N	2.34	0.59
1:C:164:ALA:HA	1:C:178:LEU:HD13	1.82	0.59
1:F:410:LEU:HB3	1:F:1025:VAL:HG21	1.84	0.59
1:B:1724:TYR:OH	1:C:267:GLU:OE2	2.07	0.59
1:C:836:VAL:HG12	1:C:837:VAL:H	1.67	0.59
1:B:2889:ILE:HG12	1:B:2922:LEU:HB3	1.84	0.59
1:A:688:ARG:O	1:A:872:ARG:NE	2.34	0.59
1:F:2651:ASN:HD22	1:F:2718:VAL:HG12	1.67	0.59
1:F:2372:MET:HB3	1:F:2394:LEU:HD22	1.83	0.59
1:E:1098:VAL:HG12	1:E:1100:ASP:H	1.66	0.59
1:F:670:GLY:O	1:F:682:ASN:ND2	2.35	0.59
1:A:2800:PHE:HE1	1:A:2812:LEU:HD22	1.67	0.59
1:D:1656:LYS:HG2	1:D:1660:LEU:HG	1.84	0.59
1:E:1701:VAL:HG22	1:E:1732:LEU:HB2	1.84	0.59
1:F:2461:VAL:HG11	1:F:2751:VAL:HG22	1.84	0.59
1:D:795:HIS:HB3	1:D:799:PHE:CZ	2.37	0.59
1:B:924:LEU:O	1:B:929:GLU:N	2.30	0.59
1:E:511:ARG:HH11	1:E:543:GLY:HA3	1.65	0.59
1:A:2667:THR:HG21	1:A:3058:ARG:NH1	2.17	0.59
1:C:410:LEU:HB3	1:C:1025:VAL:HG21	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2651:ASN:HD22	1:B:2718:VAL:HG12	1.67	0.59
1:B:2686:MET:HE1	1:B:2935:LYS:HG3	1.83	0.59
1:F:2521:VAL:HG13	1:F:2529:ARG:HH11	1.68	0.59
1:E:1532:ILE:HA	1:E:1544:ILE:HG12	1.83	0.59
1:D:1435:VAL:HG11	1:D:1463:CYS:HB3	1.84	0.59
1:E:126:VAL:HG12	1:E:182:ALA:HB1	1.83	0.59
1:F:1532:ILE:HA	1:F:1544:ILE:HG12	1.83	0.59
1:B:2712:GLU:HA	1:B:2717:VAL:HG11	1.84	0.59
1:A:924:LEU:O	1:A:929:GLU:N	2.30	0.59
1:D:2056:PHE:HZ	1:D:2180:LYS:HE2	1.67	0.59
1:B:1095:LEU:HD22	1:B:1289:PRO:HA	1.85	0.59
1:D:2431:THR:HG23	1:D:2431:THR:O	2.01	0.59
1:D:2667:THR:HG21	1:D:3058:ARG:NH1	2.17	0.59
1:D:34:LEU:O	1:D:38:LEU:N	2.25	0.59
1:D:126:VAL:HG12	1:D:182:ALA:HB1	1.83	0.59
1:F:2403:ILE:HG23	1:F:2408:LEU:HD12	1.85	0.59
1:A:462:GLN:HG3	1:A:468:PHE:HD1	1.68	0.59
1:A:670:GLY:O	1:A:682:ASN:ND2	2.35	0.59
1:A:2889:ILE:HG12	1:A:2922:LEU:HB3	1.84	0.59
1:C:1336:VAL:HG12	1:C:1337:MET:HG3	1.85	0.59
1:D:1008:VAL:HG13	1:D:1008:VAL:O	2.03	0.59
1:A:2431:THR:HG23	1:A:2431:THR:O	2.01	0.59
1:C:2752:ASP:OD2	1:D:2753:LYS:NZ	2.36	0.59
1:C:2667:THR:HG21	1:C:3058:ARG:NH1	2.17	0.59
1:C:2749:GLU:OE2	1:D:2749:GLU:HB3	2.02	0.59
1:E:34:LEU:O	1:E:38:LEU:N	2.25	0.59
1:C:2651:ASN:HD22	1:C:2718:VAL:HG12	1.67	0.59
1:E:688:ARG:O	1:E:872:ARG:NE	2.34	0.59
1:A:1616:PRO:HG3	1:A:1668:LEU:HD13	1.85	0.59
1:C:462:GLN:HG3	1:C:468:PHE:HD1	1.68	0.59
1:C:2112:ARG:CG	1:C:2114:VAL:HG12	2.31	0.59
1:F:3080:ARG:HH11	1:F:3080:ARG:CG	2.07	0.59
1:C:1309:VAL:HG22	1:C:1331:ILE:HG12	1.84	0.59
1:F:2212:TRP:HA	1:F:2229:LYS:HD3	1.83	0.59
1:C:580:ARG:HG2	1:C:590:LEU:HD21	1.83	0.59
1:F:1095:LEU:HD22	1:F:1289:PRO:HA	1.85	0.59
1:B:488:ASN:HA	1:B:521:VAL:HB	1.83	0.59
1:B:2403:ILE:HG23	1:B:2408:LEU:HD12	1.85	0.59
1:E:3080:ARG:HG3	1:E:3080:ARG:NH1	2.09	0.59
1:F:2693:GLN:O	1:F:2697:HIS:ND1	2.33	0.59
1:A:2647:VAL:HA	1:A:2650:TRP:HD1	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2820:ILE:HD13	1:C:2943:MET:HG2	1.84	0.59
1:B:2056:PHE:HZ	1:B:2180:LYS:HE2	1.67	0.59
1:C:2748:GLU:HG2	1:D:2753:LYS:HZ2	1.67	0.59
1:E:2667:THR:HG21	1:E:3058:ARG:NH1	2.17	0.59
1:D:2372:MET:HB3	1:D:2394:LEU:HD22	1.83	0.59
1:A:2521:VAL:HG13	1:A:2529:ARG:HH11	1.68	0.59
1:A:687:GLY:O	1:A:695:ILE:N	2.34	0.59
1:A:2651:ASN:HD22	1:A:2718:VAL:HG12	1.67	0.59
1:D:836:VAL:HG12	1:D:837:VAL:H	1.67	0.59
1:C:670:GLY:O	1:C:682:ASN:ND2	2.35	0.59
1:E:462:GLN:HG3	1:E:468:PHE:HD1	1.68	0.59
1:B:1656:LYS:HG2	1:B:1660:LEU:HG	1.84	0.59
1:F:2686:MET:HE1	1:F:2935:LYS:HG3	1.83	0.59
1:D:2647:VAL:HA	1:D:2650:TRP:HD1	1.66	0.59
1:A:1656:LYS:HG2	1:A:1660:LEU:HG	1.85	0.59
1:C:150:THR:O	1:C:152:PRO:HD3	2.03	0.59
1:B:462:GLN:HG3	1:B:468:PHE:HD1	1.68	0.59
1:C:129:VAL:HG13	1:C:356:PRO:HG2	1.85	0.59
1:A:2554:ALA:HB1	1:A:2614:LYS:HZ2	1.66	0.59
1:B:1336:VAL:HG12	1:B:1337:MET:HG3	1.85	0.59
1:B:2647:VAL:HA	1:B:2650:TRP:HD1	1.66	0.59
1:C:1008:VAL:O	1:C:1008:VAL:HG13	2.03	0.59
1:F:1008:VAL:CG1	1:F:1019:PHE:HB3	2.33	0.59
1:A:1008:VAL:CG1	1:A:1019:PHE:HB3	2.33	0.59
1:A:2334:HIS:HD2	1:A:2391:LYS:HG3	1.66	0.59
1:B:2667:THR:HG21	1:B:3058:ARG:NH1	2.17	0.59
1:F:462:GLN:HG3	1:F:468:PHE:HD1	1.68	0.59
1:A:836:VAL:HG12	1:A:837:VAL:H	1.67	0.59
1:A:238:SER:OG	1:A:249:THR:OG1	2.16	0.59
1:B:2614:LYS:HZ1	1:E:2583:PHE:HD1	1.51	0.59
1:F:784:GLU:OE2	1:F:787:LEU:HD12	2.03	0.59
1:A:1435:VAL:HG11	1:A:1463:CYS:HB3	1.84	0.59
1:E:836:VAL:HG12	1:E:837:VAL:H	1.67	0.59
1:C:2521:VAL:HG13	1:C:2529:ARG:HH11	1.68	0.59
1:B:795:HIS:HB3	1:B:799:PHE:CZ	2.37	0.58
1:B:2693:GLN:O	1:B:2697:HIS:ND1	2.33	0.58
1:B:33:ALA:O	1:B:37:ARG:N	2.35	0.58
1:B:1537:LEU:HB2	1:B:1541:GLN:H	1.67	0.58
1:D:1537:LEU:HB2	1:D:1541:GLN:H	1.67	0.58
1:A:2749:GLU:OE2	1:F:2749:GLU:HB3	2.02	0.58
1:E:2461:VAL:HG11	1:E:2751:VAL:HG22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2889:ILE:HG12	1:F:2922:LEU:HB3	1.85	0.58
1:A:410:LEU:HB3	1:A:1025:VAL:HG21	1.84	0.58
1:C:1656:LYS:HG2	1:C:1660:LEU:HG	1.85	0.58
1:F:150:THR:O	1:F:152:PRO:HD3	2.03	0.58
1:F:688:ARG:O	1:F:872:ARG:NE	2.34	0.58
1:B:500:GLN:O	1:B:504:LYS:N	2.24	0.58
1:F:33:ALA:O	1:F:37:ARG:N	2.35	0.58
1:A:2753:LYS:NZ	1:F:2752:ASP:OD2	2.36	0.58
1:D:2521:VAL:HG13	1:D:2529:ARG:HH11	1.68	0.58
1:F:735:LYS:HD2	1:F:860:VAL:HG23	1.85	0.58
1:F:129:VAL:HG13	1:F:356:PRO:HG2	1.85	0.58
1:A:1701:VAL:HG22	1:A:1732:LEU:HB2	1.84	0.58
1:E:1336:VAL:HG12	1:E:1337:MET:HG3	1.85	0.58
1:D:1309:VAL:HG22	1:D:1331:ILE:HG12	1.84	0.58
1:D:2084:GLN:O	1:D:2087:GLN:CG	2.52	0.58
1:D:2820:ILE:HD13	1:D:2943:MET:HG2	1.84	0.58
1:D:1095:LEU:HD22	1:D:1289:PRO:HA	1.85	0.58
1:C:500:GLN:O	1:C:504:LYS:N	2.24	0.58
1:B:1616:PRO:HG3	1:B:1668:LEU:HD13	1.85	0.58
1:C:2889:ILE:HG12	1:C:2922:LEU:HB3	1.85	0.58
1:D:150:THR:O	1:D:152:PRO:HD3	2.03	0.58
1:A:784:GLU:OE2	1:A:787:LEU:HD12	2.03	0.58
1:F:795:HIS:HB3	1:F:799:PHE:CZ	2.37	0.58
1:F:2084:GLN:O	1:F:2087:GLN:CG	2.52	0.58
1:E:2084:GLN:O	1:E:2087:GLN:CG	2.52	0.58
1:F:621:SER:OG	1:F:643:ILE:HD13	2.04	0.58
1:E:1087:PHE:HB3	1:F:117:LYS:NZ	2.18	0.58
1:A:2749:GLU:HB3	1:F:2749:GLU:OE2	2.02	0.58
1:F:1656:LYS:HG2	1:F:1660:LEU:HG	1.84	0.58
1:D:410:LEU:HB3	1:D:1025:VAL:HG21	1.84	0.58
1:E:2521:VAL:HG13	1:E:2529:ARG:HH11	1.68	0.58
1:E:784:GLU:OE2	1:E:787:LEU:HD12	2.03	0.58
1:B:2124:ALA:O	1:B:2127:GLU:CG	2.51	0.58
1:C:2403:ILE:HG23	1:C:2408:LEU:HD12	1.85	0.58
1:B:735:LYS:HD2	1:B:860:VAL:HG23	1.86	0.58
1:F:476:GLU:HA	1:F:479:LEU:HB2	1.86	0.58
1:A:2820:ILE:HD13	1:A:2943:MET:HG2	1.84	0.58
1:B:2820:ILE:HD13	1:B:2943:MET:HG2	1.84	0.58
1:B:2753:LYS:NZ	1:E:2752:ASP:OD2	2.36	0.58
1:C:784:GLU:OE2	1:C:787:LEU:HD12	2.03	0.58
1:D:129:VAL:HG13	1:D:356:PRO:HG2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2686:MET:HE1	1:A:2935:LYS:HG3	1.84	0.58
1:F:1989:PHE:HD1	1:F:1992:LYS:HZ3	1.50	0.58
1:D:2124:ALA:O	1:D:2127:GLU:CG	2.51	0.58
1:C:2693:GLN:O	1:C:2697:HIS:ND1	2.33	0.58
1:B:1087:PHE:HB3	1:C:117:LYS:NZ	2.19	0.58
1:F:2876:LEU:HB3	1:F:2881:VAL:HG12	1.86	0.58
1:A:2752:ASP:OD2	1:F:2753:LYS:NZ	2.36	0.58
1:F:1327:VAL:HB	1:F:1339:ALA:HB3	1.86	0.58
1:B:1327:VAL:HB	1:B:1339:ALA:HB3	1.86	0.58
1:B:2461:VAL:HG11	1:B:2751:VAL:HG22	1.84	0.58
1:D:784:GLU:OE2	1:D:787:LEU:HD12	2.04	0.58
1:D:2712:GLU:HA	1:D:2717:VAL:HG11	1.84	0.58
1:E:735:LYS:HD2	1:E:860:VAL:HG23	1.85	0.58
1:C:2124:ALA:O	1:C:2127:GLU:CG	2.51	0.58
1:D:2487:LEU:HD11	1:D:2495:LEU:HD12	1.86	0.58
1:F:500:GLN:O	1:F:504:LYS:N	2.24	0.58
1:E:924:LEU:O	1:E:929:GLU:N	2.30	0.58
1:A:33:ALA:O	1:A:37:ARG:N	2.35	0.58
1:C:2084:GLN:O	1:C:2087:GLN:CG	2.52	0.58
1:C:2876:LEU:HB3	1:C:2881:VAL:HG12	1.86	0.58
1:A:1087:PHE:HB3	1:B:117:LYS:NZ	2.19	0.58
1:A:621:SER:OG	1:A:643:ILE:HD13	2.04	0.58
1:F:1091:LEU:HD13	1:F:1281:ALA:HB3	1.86	0.58
1:E:1616:PRO:HG3	1:E:1668:LEU:HD13	1.85	0.58
1:E:2889:ILE:HG12	1:E:2922:LEU:HB3	1.84	0.58
1:A:126:VAL:HG12	1:A:182:ALA:HB1	1.83	0.58
1:D:1616:PRO:HG3	1:D:1668:LEU:HD13	1.85	0.58
1:E:150:THR:O	1:E:152:PRO:HD3	2.03	0.58
1:C:2487:LEU:HD11	1:C:2495:LEU:HD12	1.86	0.58
1:E:2487:LEU:HD11	1:E:2495:LEU:HD12	1.86	0.58
1:E:127:PRO:HG3	1:E:183:GLN:HA	1.86	0.58
1:D:476:GLU:HA	1:D:479:LEU:HB2	1.86	0.58
1:B:1253:ARG:HG3	1:B:1253:ARG:NH1	2.18	0.58
1:A:1008:VAL:O	1:A:1008:VAL:HG13	2.03	0.58
1:F:511:ARG:HD2	1:F:517:ILE:O	2.04	0.58
1:B:2084:GLN:O	1:B:2087:GLN:CG	2.52	0.58
1:B:1008:VAL:CG1	1:B:1019:PHE:HB3	2.33	0.58
1:D:1087:PHE:HB3	1:E:117:LYS:NZ	2.19	0.58
1:D:2876:LEU:HB3	1:D:2881:VAL:HG12	1.86	0.58
1:E:621:SER:OG	1:E:643:ILE:HD13	2.04	0.58
1:B:2876:LEU:HB3	1:B:2881:VAL:HG12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:621:SER:OG	1:C:643:ILE:HD13	2.04	0.58
1:B:1989:PHE:HD1	1:B:1992:LYS:HZ3	1.49	0.58
1:A:735:LYS:HD2	1:A:860:VAL:HG23	1.85	0.58
1:A:127:PRO:HG3	1:A:183:GLN:HA	1.85	0.58
1:B:1701:VAL:HG22	1:B:1732:LEU:HB2	1.84	0.58
1:F:127:PRO:HG3	1:F:183:GLN:HA	1.86	0.58
1:D:238:SER:OG	1:D:249:THR:OG1	2.15	0.58
1:C:476:GLU:HA	1:C:479:LEU:HB2	1.86	0.58
1:C:1008:VAL:CG1	1:C:1019:PHE:HB3	2.33	0.58
1:A:117:LYS:NZ	1:C:1087:PHE:HB3	2.18	0.58
1:B:2753:LYS:NZ	1:E:2748:GLU:HG2	2.19	0.58
1:B:2787:THR:HA	1:B:2790:MET:HG3	1.86	0.58
1:A:267:GLU:OE2	1:C:1724:TYR:OH	2.07	0.58
1:F:2124:ALA:O	1:F:2127:GLU:CG	2.51	0.58
1:A:2124:ALA:O	1:A:2127:GLU:CG	2.51	0.58
1:F:1616:PRO:HG3	1:F:1668:LEU:HD13	1.85	0.58
1:E:1010:LEU:O	1:E:1017:ILE:N	2.29	0.58
1:C:1538:ARG:NH1	1:C:1722:PRO:HB3	2.18	0.58
1:F:1309:VAL:HG22	1:F:1331:ILE:HG12	1.84	0.58
1:D:1008:VAL:CG1	1:D:1019:PHE:HB3	2.33	0.58
1:B:511:ARG:HD2	1:B:517:ILE:O	2.04	0.58
1:A:511:ARG:NH1	1:A:543:GLY:HA3	2.19	0.58
1:A:34:LEU:O	1:A:38:LEU:N	2.25	0.58
1:E:1095:LEU:HD22	1:E:1289:PRO:HA	1.85	0.58
1:A:2787:THR:HA	1:A:2790:MET:HG3	1.86	0.58
1:B:2554:ALA:HB1	1:B:2614:LYS:NZ	2.19	0.58
1:C:2339:TRP:HB2	1:C:2398:LEU:HD11	1.86	0.58
1:B:150:THR:O	1:B:152:PRO:HD3	2.03	0.58
1:E:2787:THR:HA	1:E:2790:MET:HG3	1.86	0.58
1:E:2800:PHE:HE1	1:E:2812:LEU:HD22	1.67	0.58
1:C:441:ASP:OD2	1:C:443:LYS:HB3	2.04	0.58
1:F:687:GLY:O	1:F:695:ILE:N	2.34	0.58
1:E:1656:LYS:HG2	1:E:1660:LEU:HG	1.85	0.58
1:D:267:GLU:OE2	1:F:1724:TYR:OH	2.07	0.58
1:A:150:THR:O	1:A:152:PRO:HD3	2.03	0.58
1:F:1336:VAL:HG12	1:F:1337:MET:HG3	1.85	0.57
1:E:476:GLU:HA	1:E:479:LEU:HB2	1.86	0.57
1:A:1253:ARG:HG3	1:A:1253:ARG:NH1	2.18	0.57
1:D:1253:ARG:NH1	1:D:1253:ARG:HG3	2.18	0.57
1:F:1008:VAL:HG13	1:F:1008:VAL:O	2.03	0.57
1:A:2084:GLN:O	1:A:2087:GLN:CG	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:511:ARG:NH1	1:F:543:GLY:HA3	2.19	0.57
1:A:1091:LEU:HD13	1:A:1281:ALA:HB3	1.86	0.57
1:E:2554:ALA:HB1	1:E:2614:LYS:NZ	2.19	0.57
1:A:2339:TRP:HB2	1:A:2398:LEU:HD11	1.86	0.57
1:D:2339:TRP:HB2	1:D:2398:LEU:HD11	1.86	0.57
1:F:441:ASP:OD2	1:F:443:LYS:HB3	2.04	0.57
1:C:776:ASP:O	1:C:779:TRP:N	2.31	0.57
1:E:2124:ALA:O	1:E:2127:GLU:CG	2.51	0.57
1:F:924:LEU:HA	1:F:928:ALA:HB3	1.86	0.57
1:A:1336:VAL:HG12	1:A:1337:MET:HG3	1.85	0.57
1:B:476:GLU:HA	1:B:479:LEU:HB2	1.86	0.57
1:E:1008:VAL:O	1:E:1008:VAL:HG13	2.03	0.57
1:C:511:ARG:NH1	1:C:543:GLY:HA3	2.19	0.57
1:E:511:ARG:HD2	1:E:517:ILE:O	2.04	0.57
1:B:441:ASP:OD2	1:B:443:LYS:HB3	2.04	0.57
1:C:1616:PRO:HG3	1:C:1668:LEU:HD13	1.85	0.57
1:D:2889:ILE:HG12	1:D:2922:LEU:HB3	1.85	0.57
1:F:1701:VAL:HG22	1:F:1732:LEU:HB2	1.84	0.57
1:D:924:LEU:HA	1:D:928:ALA:HB3	1.87	0.57
1:F:1538:ARG:NH1	1:F:1722:PRO:HB3	2.18	0.57
1:B:2846:ALA:HA	1:B:3001:HIS:O	2.05	0.57
1:B:2845:PHE:CD1	1:E:2731:GLY:HA2	2.39	0.57
1:C:2724:GLN:HG2	1:D:3001:HIS:NE2	2.19	0.57
1:E:1008:VAL:CG1	1:E:1019:PHE:HB3	2.33	0.57
1:D:117:LYS:NZ	1:F:1087:PHE:HB3	2.19	0.57
1:E:2651:ASN:HD22	1:E:2718:VAL:HG12	1.67	0.57
1:F:2983:LEU:HB3	1:F:2987:PHE:O	2.05	0.57
1:B:1008:VAL:HG13	1:B:1008:VAL:O	2.03	0.57
1:E:2876:LEU:HB3	1:E:2881:VAL:HG12	1.86	0.57
1:A:1095:LEU:HD22	1:A:1289:PRO:HA	1.85	0.57
1:D:1537:LEU:HD11	1:D:1714:LEU:HB3	1.87	0.57
1:C:1537:LEU:HD11	1:C:1714:LEU:HB3	1.86	0.57
1:F:2787:THR:HA	1:F:2790:MET:HG3	1.86	0.57
1:C:2622:GLY:HA2	1:C:2812:LEU:HD11	1.87	0.57
1:D:1445:VAL:HG23	1:D:1448:ALA:HB2	1.87	0.57
1:E:2961:LEU:HD23	1:E:2978:ARG:HB3	1.87	0.57
1:D:462:GLN:HG3	1:D:468:PHE:HD1	1.68	0.57
1:B:1405:ALA:HB3	1:B:1408:VAL:HG23	1.87	0.57
1:C:2983:LEU:HB3	1:C:2987:PHE:O	2.05	0.57
1:C:735:LYS:HD2	1:C:860:VAL:HG23	1.85	0.57
1:D:1017:ILE:HG23	1:D:1045:VAL:HG21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2693:GLN:O	1:E:2697:HIS:ND1	2.33	0.57
1:D:1336:VAL:HG12	1:D:1337:MET:HG3	1.85	0.57
1:D:2846:ALA:HA	1:D:3001:HIS:O	2.05	0.57
1:C:511:ARG:HD2	1:C:517:ILE:O	2.04	0.57
1:C:2753:LYS:NZ	1:D:2748:GLU:HG2	2.19	0.57
1:A:2403:ILE:HG23	1:A:2408:LEU:HD12	1.85	0.57
1:D:2403:ILE:HG23	1:D:2408:LEU:HD12	1.85	0.57
1:A:2583:PHE:HD1	1:F:2614:LYS:HZ1	1.52	0.57
1:F:776:ASP:O	1:F:779:TRP:N	2.31	0.57
1:E:129:VAL:HG13	1:E:356:PRO:HG2	1.85	0.57
1:E:1091:LEU:HD13	1:E:1281:ALA:HB3	1.86	0.57
1:F:1445:VAL:HG23	1:F:1448:ALA:HB2	1.87	0.57
1:A:1327:VAL:HB	1:A:1339:ALA:HB3	1.86	0.57
1:C:1405:ALA:HB3	1:C:1408:VAL:HG23	1.87	0.57
1:C:924:LEU:HA	1:C:928:ALA:HB3	1.87	0.57
1:C:3001:HIS:NE2	1:D:2724:GLN:HG2	2.19	0.57
1:C:2709:ILE:O	1:C:2713:VAL:HG13	2.05	0.57
1:A:2753:LYS:NZ	1:F:2748:GLU:HG2	2.19	0.57
1:B:2339:TRP:HB2	1:B:2398:LEU:HD11	1.86	0.57
1:F:2487:LEU:HD11	1:F:2495:LEU:HD12	1.86	0.57
1:E:1435:VAL:HG11	1:E:1463:CYS:HB3	1.84	0.57
1:E:1405:ALA:HB3	1:E:1408:VAL:HG23	1.86	0.57
1:E:1989:PHE:HD1	1:E:1992:LYS:HZ3	1.51	0.57
1:B:2521:VAL:HG13	1:B:2529:ARG:HH11	1.68	0.57
1:C:127:PRO:HG3	1:C:183:GLN:HA	1.86	0.57
1:C:1017:ILE:HG23	1:C:1045:VAL:HG21	1.87	0.57
1:B:924:LEU:HA	1:B:928:ALA:HB3	1.86	0.57
1:B:3077:THR:O	1:E:2865:ARG:NH1	2.38	0.57
1:C:475:LEU:O	1:C:479:LEU:N	2.37	0.57
1:E:2846:ALA:HA	1:E:3001:HIS:O	2.05	0.57
1:A:511:ARG:HD2	1:A:517:ILE:O	2.04	0.57
1:B:2748:GLU:HG2	1:E:2753:LYS:HZ2	1.69	0.57
1:D:2787:THR:HA	1:D:2790:MET:HG3	1.86	0.57
1:A:441:ASP:OD2	1:A:443:LYS:HB3	2.04	0.57
1:F:1435:VAL:HG11	1:F:1463:CYS:HB3	1.84	0.57
1:C:1327:VAL:HB	1:C:1339:ALA:HB3	1.86	0.57
1:F:238:SER:OG	1:F:249:THR:OG1	2.15	0.57
1:C:2461:VAL:HG11	1:C:2751:VAL:HG22	1.84	0.57
1:B:776:ASP:O	1:B:779:TRP:N	2.31	0.57
1:B:784:GLU:OE2	1:B:787:LEU:HD12	2.03	0.57
1:E:2403:ILE:HG23	1:E:2408:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:924:LEU:HA	1:E:928:ALA:HB3	1.86	0.57
1:D:1538:ARG:NH1	1:D:1722:PRO:HB3	2.18	0.57
1:A:2724:GLN:HG2	1:F:3001:HIS:NE2	2.20	0.57
1:B:1126:ILE:O	1:B:1197:ARG:CG	2.53	0.57
1:B:3001:HIS:NE2	1:E:2724:GLN:HG2	2.20	0.57
1:E:2709:ILE:O	1:E:2713:VAL:HG13	2.05	0.57
1:A:2876:LEU:HB3	1:A:2881:VAL:HG12	1.86	0.57
1:F:1537:LEU:HD11	1:F:1714:LEU:HB3	1.87	0.57
1:C:2753:LYS:NZ	1:D:2752:ASP:OD2	2.36	0.57
1:B:2748:GLU:HG2	1:E:2753:LYS:NZ	2.19	0.57
1:A:2554:ALA:HB1	1:A:2614:LYS:NZ	2.19	0.57
1:A:2487:LEU:HD11	1:A:2495:LEU:HD12	1.86	0.57
1:A:2961:LEU:HD23	1:A:2978:ARG:HB3	1.87	0.57
1:D:2961:LEU:HD23	1:D:2978:ARG:HB3	1.87	0.57
1:A:1001:ASP:O	1:A:1002:GLN:CG	2.53	0.57
1:B:2865:ARG:NH1	1:E:3077:THR:O	2.38	0.57
1:D:33:ALA:O	1:D:37:ARG:N	2.35	0.57
1:A:476:GLU:HA	1:A:479:LEU:HB2	1.86	0.57
1:A:2846:ALA:HA	1:A:3001:HIS:O	2.05	0.57
1:E:511:ARG:NH1	1:E:543:GLY:HA3	2.19	0.57
1:D:621:SER:OG	1:D:643:ILE:HD13	2.04	0.57
1:A:2709:ILE:O	1:A:2713:VAL:HG13	2.05	0.57
1:A:2748:GLU:HG2	1:F:2753:LYS:NZ	2.19	0.57
1:D:2622:GLY:HA2	1:D:2812:LEU:HD11	1.87	0.57
1:B:2521:VAL:HG13	1:B:2529:ARG:NH1	2.20	0.57
1:D:2554:ALA:HB1	1:D:2614:LYS:HZ2	1.70	0.57
1:C:1445:VAL:HG23	1:C:1448:ALA:HB2	1.87	0.57
1:B:127:PRO:HG3	1:B:183:GLN:HA	1.86	0.57
1:F:1017:ILE:HG23	1:F:1045:VAL:HG21	1.87	0.57
1:E:1017:ILE:HG23	1:E:1045:VAL:HG21	1.87	0.57
1:A:3077:THR:O	1:F:2865:ARG:NH1	2.38	0.57
1:A:2865:ARG:NH1	1:F:3077:THR:O	2.38	0.57
1:A:475:LEU:O	1:A:479:LEU:N	2.37	0.57
1:A:3001:HIS:NE2	1:F:2724:GLN:HG2	2.19	0.57
1:D:1126:ILE:O	1:D:1197:ARG:CG	2.53	0.57
1:D:511:ARG:HD2	1:D:517:ILE:O	2.04	0.57
1:D:2962:ASP:N	1:D:2962:ASP:OD1	2.34	0.57
1:C:1095:LEU:HD22	1:C:1289:PRO:HA	1.85	0.57
1:C:2748:GLU:HG2	1:D:2753:LYS:NZ	2.19	0.57
1:F:2622:GLY:HA2	1:F:2812:LEU:HD11	1.87	0.57
1:F:2339:TRP:HB2	1:F:2398:LEU:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2521:VAL:HG13	1:D:2529:ARG:NH1	2.20	0.57
1:A:129:VAL:HG13	1:A:356:PRO:HG2	1.85	0.57
1:D:735:LYS:HD2	1:D:860:VAL:HG23	1.85	0.57
1:F:177:GLU:HB3	1:F:317:LEU:HD13	1.87	0.57
1:D:127:PRO:HG3	1:D:183:GLN:HA	1.86	0.57
1:A:1405:ALA:HB3	1:A:1408:VAL:HG23	1.86	0.57
1:D:441:ASP:OD2	1:D:443:LYS:HB3	2.04	0.57
1:C:2865:ARG:NH1	1:D:3077:THR:O	2.38	0.56
1:B:2709:ILE:O	1:B:2713:VAL:HG13	2.05	0.56
1:E:1537:LEU:HD11	1:E:1714:LEU:HB3	1.86	0.56
1:B:2622:GLY:HA2	1:B:2812:LEU:HD11	1.87	0.56
1:F:2554:ALA:HB1	1:F:2614:LYS:NZ	2.19	0.56
1:D:1327:VAL:HB	1:D:1339:ALA:HB3	1.86	0.56
1:B:2487:LEU:HD11	1:B:2495:LEU:HD12	1.86	0.56
1:E:441:ASP:OD2	1:E:443:LYS:HB3	2.04	0.56
1:F:1001:ASP:O	1:F:1002:GLN:CG	2.53	0.56
1:D:1637:VAL:HG21	1:D:1671:TRP:CG	2.40	0.56
1:F:1637:VAL:HG21	1:F:1671:TRP:CG	2.40	0.56
1:B:621:SER:OG	1:B:643:ILE:HD13	2.04	0.56
1:D:2709:ILE:O	1:D:2713:VAL:HG13	2.05	0.56
1:A:1537:LEU:HD11	1:A:1714:LEU:HB3	1.87	0.56
1:E:2521:VAL:HG13	1:E:2529:ARG:NH1	2.20	0.56
1:E:2622:GLY:HA2	1:E:2812:LEU:HD11	1.87	0.56
1:D:1989:PHE:HD1	1:D:1992:LYS:HZ3	1.51	0.56
1:E:1327:VAL:HB	1:E:1339:ALA:HB3	1.86	0.56
1:C:2554:ALA:HB1	1:C:2614:LYS:NZ	2.19	0.56
1:D:1001:ASP:O	1:D:1002:GLN:CG	2.53	0.56
1:D:475:LEU:O	1:D:479:LEU:N	2.37	0.56
1:C:37:ARG:O	1:C:41:GLY:N	2.39	0.56
1:F:1126:ILE:O	1:F:1197:ARG:CG	2.53	0.56
1:E:1126:ILE:O	1:E:1197:ARG:CG	2.53	0.56
1:C:2846:ALA:HA	1:C:3001:HIS:O	2.05	0.56
1:F:2846:ALA:HA	1:F:3001:HIS:O	2.05	0.56
1:B:2724:GLN:HG2	1:E:3001:HIS:NE2	2.19	0.56
1:D:511:ARG:NH1	1:D:543:GLY:HA3	2.20	0.56
1:B:1537:LEU:HD11	1:B:1714:LEU:HB3	1.87	0.56
1:D:868:ARG:HB3	1:D:872:ARG:HH11	1.70	0.56
1:F:490:LEU:HD23	1:F:523:SER:HB2	1.87	0.56
1:A:868:ARG:HB3	1:A:872:ARG:HH11	1.70	0.56
1:E:868:ARG:HB3	1:E:872:ARG:HH11	1.70	0.56
1:B:490:LEU:HD23	1:B:523:SER:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2583:PHE:HD1	1:D:2614:LYS:HZ1	1.51	0.56
1:D:2554:ALA:HB1	1:D:2614:LYS:NZ	2.19	0.56
1:D:776:ASP:O	1:D:779:TRP:N	2.31	0.56
1:D:1405:ALA:HB3	1:D:1408:VAL:HG23	1.87	0.56
1:E:776:ASP:O	1:E:779:TRP:N	2.31	0.56
1:A:1637:VAL:HG21	1:A:1671:TRP:CG	2.40	0.56
1:E:1511:ASP:H	1:E:1514:ASP:HB2	1.71	0.56
1:D:177:GLU:HB3	1:D:317:LEU:HD13	1.87	0.56
1:E:2983:LEU:HB3	1:E:2987:PHE:O	2.05	0.56
1:B:1091:LEU:HD13	1:B:1281:ALA:HB3	1.86	0.56
1:F:1405:ALA:HB3	1:F:1408:VAL:HG23	1.86	0.56
1:C:2961:LEU:HD23	1:C:2978:ARG:HB3	1.87	0.56
1:B:2983:LEU:HB3	1:B:2987:PHE:O	2.05	0.56
1:A:500:GLN:O	1:A:504:LYS:N	2.24	0.56
1:E:37:ARG:O	1:E:41:GLY:N	2.39	0.56
1:F:1253:ARG:HG3	1:F:1253:ARG:NH1	2.18	0.56
1:F:2521:VAL:HG13	1:F:2529:ARG:NH1	2.20	0.56
1:A:2957:PRO:HD3	1:A:2980:PRO:HB3	1.88	0.56
1:C:1511:ASP:H	1:C:1514:ASP:HB2	1.71	0.56
1:B:1637:VAL:HG21	1:B:1671:TRP:CG	2.40	0.56
1:B:129:VAL:HG13	1:B:356:PRO:HG2	1.85	0.56
1:D:745:THR:OG1	1:D:834:GLU:O	2.19	0.56
1:C:1637:VAL:HG21	1:C:1671:TRP:CG	2.40	0.56
1:F:2709:ILE:O	1:F:2713:VAL:HG13	2.05	0.56
1:B:2752:ASP:OD2	1:E:2753:LYS:NZ	2.36	0.56
1:B:868:ARG:HB3	1:B:872:ARG:HH11	1.70	0.56
1:A:2521:VAL:HG13	1:A:2529:ARG:NH1	2.20	0.56
1:D:2957:PRO:HD3	1:D:2980:PRO:HB3	1.88	0.56
1:A:1445:VAL:HG23	1:A:1448:ALA:HB2	1.87	0.56
1:B:1445:VAL:HG23	1:B:1448:ALA:HB2	1.87	0.56
1:A:1420:THR:OG1	1:A:1485:HIS:NE2	2.39	0.56
1:C:1091:LEU:HD13	1:C:1281:ALA:HB3	1.86	0.56
1:F:1511:ASP:H	1:F:1514:ASP:HB2	1.71	0.56
1:C:177:GLU:HB3	1:C:317:LEU:HD13	1.87	0.56
1:B:1017:ILE:HG23	1:B:1045:VAL:HG21	1.87	0.56
1:C:3077:THR:O	1:D:2865:ARG:NH1	2.38	0.56
1:B:511:ARG:NH1	1:B:543:GLY:HA3	2.19	0.56
1:A:540:ASN:HD21	1:A:544:ILE:HG13	1.71	0.56
1:C:868:ARG:HB3	1:C:872:ARG:HH11	1.70	0.56
1:F:2481:MET:O	1:F:2959:ARG:NH2	2.39	0.56
1:C:1420:THR:OG1	1:C:1485:HIS:NE2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1637:VAL:HG21	1:E:1671:TRP:CG	2.40	0.56
1:B:238:SER:OG	1:B:249:THR:OG1	2.15	0.56
1:E:2481:MET:O	1:E:2959:ARG:NH2	2.39	0.56
1:E:2478:ARG:NH1	1:E:2482:GLU:OE1	2.39	0.56
1:A:2693:GLN:O	1:A:2697:HIS:ND1	2.33	0.56
1:C:1126:ILE:O	1:C:1197:ARG:CG	2.53	0.56
1:A:1126:ILE:O	1:A:1197:ARG:CG	2.53	0.56
1:C:2787:THR:HA	1:C:2790:MET:HG3	1.86	0.56
1:C:2521:VAL:HG13	1:C:2529:ARG:NH1	2.20	0.56
1:C:2481:MET:O	1:C:2959:ARG:NH2	2.39	0.56
1:D:1091:LEU:HD13	1:D:1281:ALA:HB3	1.86	0.56
1:C:1001:ASP:O	1:C:1002:GLN:CG	2.53	0.56
1:B:540:ASN:HD21	1:B:544:ILE:HG13	1.71	0.56
1:A:2881:VAL:HG13	1:A:2885:ASP:HB2	1.88	0.56
1:E:2957:PRO:HD3	1:E:2980:PRO:HB3	1.88	0.56
1:C:2957:PRO:HD3	1:C:2980:PRO:HB3	1.88	0.56
1:A:2303:ASP:N	1:A:2303:ASP:OD1	2.39	0.56
1:E:1618:LEU:HG	1:E:1619:VAL:HG23	1.88	0.56
1:B:1001:ASP:O	1:B:1002:GLN:CG	2.53	0.56
1:E:1001:ASP:O	1:E:1002:GLN:CG	2.53	0.56
1:E:1087:PHE:HB3	1:F:117:LYS:HZ1	1.69	0.56
1:E:1496:SER:HB3	1:E:1578:ASP:HB3	1.88	0.56
1:A:2481:MET:O	1:A:2959:ARG:NH2	2.39	0.56
1:B:2481:MET:O	1:B:2959:ARG:NH2	2.39	0.56
1:C:2303:ASP:N	1:C:2303:ASP:OD1	2.39	0.56
1:A:2731:GLY:HA2	1:F:2845:PHE:CD1	2.39	0.56
1:B:37:ARG:O	1:B:41:GLY:N	2.39	0.56
1:E:2743:ALA:HB3	1:E:2939:ALA:HB3	1.89	0.56
1:D:540:ASN:HD21	1:D:544:ILE:HG13	1.71	0.56
1:D:2881:VAL:HG13	1:D:2885:ASP:HB2	1.88	0.56
1:E:490:LEU:HD23	1:E:523:SER:HB2	1.87	0.56
1:D:2481:MET:O	1:D:2959:ARG:NH2	2.39	0.56
1:A:144:GLY:O	1:A:148:THR:N	2.34	0.56
1:D:490:LEU:HD23	1:D:523:SER:HB2	1.87	0.56
1:A:924:LEU:HA	1:A:928:ALA:HB3	1.86	0.55
1:B:1538:ARG:NH1	1:B:1722:PRO:HB3	2.18	0.55
1:C:2881:VAL:HG13	1:C:2885:ASP:HB2	1.88	0.55
1:A:2962:ASP:OD1	1:A:2962:ASP:N	2.34	0.55
1:A:490:LEU:HD23	1:A:523:SER:HB2	1.87	0.55
1:D:2983:LEU:HB3	1:D:2987:PHE:O	2.05	0.55
1:F:144:GLY:O	1:F:148:THR:N	2.33	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1618:LEU:HG	1:C:1619:VAL:HG23	1.88	0.55
1:D:1511:ASP:H	1:D:1514:ASP:HB2	1.71	0.55
1:C:2478:ARG:NH1	1:C:2482:GLU:OE1	2.39	0.55
1:B:2961:LEU:HD23	1:B:2978:ARG:HB3	1.87	0.55
1:B:177:GLU:HB3	1:B:317:LEU:HD13	1.87	0.55
1:A:1017:ILE:HG23	1:A:1045:VAL:HG21	1.87	0.55
1:B:2731:GLY:HA2	1:E:2845:PHE:CD1	2.39	0.55
1:C:540:ASN:HD21	1:C:544:ILE:HG13	1.71	0.55
1:E:2881:VAL:HG13	1:E:2885:ASP:HB2	1.88	0.55
1:C:490:LEU:HD23	1:C:523:SER:HB2	1.87	0.55
1:F:868:ARG:HB3	1:F:872:ARG:HH11	1.70	0.55
1:F:2957:PRO:HD3	1:F:2980:PRO:HB3	1.88	0.55
1:E:177:GLU:HB3	1:E:317:LEU:HD13	1.87	0.55
1:A:1496:SER:HB3	1:A:1578:ASP:HB3	1.89	0.55
1:A:177:GLU:HB3	1:A:317:LEU:HD13	1.87	0.55
1:F:2743:ALA:HB3	1:F:2939:ALA:HB3	1.88	0.55
1:E:540:ASN:HD21	1:E:544:ILE:HG13	1.71	0.55
1:B:1420:THR:OG1	1:B:1485:HIS:NE2	2.38	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:B:2478:ARG:NH1	1:B:2482:GLU:OE1	2.39	0.55
1:D:2303:ASP:N	1:D:2303:ASP:OD1	2.39	0.55
1:A:1511:ASP:H	1:A:1514:ASP:HB2	1.71	0.55
1:C:2704:ALA:O	1:C:2705:LYS:HD3	2.07	0.55
1:C:33:ALA:O	1:C:37:ARG:N	2.35	0.55
1:A:2622:GLY:HA2	1:A:2812:LEU:HD11	1.87	0.55
1:E:2339:TRP:HB2	1:E:2398:LEU:HD11	1.86	0.55
1:B:1496:SER:HB3	1:B:1578:ASP:HB3	1.88	0.55
1:A:975:GLU:CG	1:A:976:TRP:N	2.70	0.55
1:A:2810:GLY:HA2	1:A:2896:THR:HA	1.89	0.55
1:B:2743:ALA:HB3	1:B:2939:ALA:HB3	1.88	0.55
1:C:2554:ALA:HB1	1:C:2614:LYS:HZ2	1.70	0.55
1:E:2704:ALA:O	1:E:2705:LYS:HD3	2.07	0.55
1:D:2704:ALA:O	1:D:2705:LYS:HD3	2.06	0.55
1:E:2810:GLY:HA2	1:E:2896:THR:HA	1.89	0.55
1:F:1420:THR:OG1	1:F:1485:HIS:NE2	2.39	0.55
1:E:1445:VAL:HG23	1:E:1448:ALA:HB2	1.87	0.55
1:D:551:PRO:HG3	1:D:560:VAL:HG21	1.89	0.55
1:E:1253:ARG:NH1	1:E:1253:ARG:HG3	2.18	0.55
1:C:1253:ARG:HG3	1:C:1253:ARG:NH1	2.18	0.55
1:B:2881:VAL:HG13	1:B:2885:ASP:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2961:LEU:HD23	1:F:2978:ARG:HB3	1.87	0.55
1:F:2478:ARG:NH1	1:F:2482:GLU:OE1	2.39	0.55
1:C:975:GLU:CG	1:C:976:TRP:N	2.69	0.55
1:A:2704:ALA:O	1:A:2705:LYS:HD3	2.07	0.55
1:E:1734:SER:HA	1:E:1741:LEU:HD11	1.89	0.55
1:C:2810:GLY:HA2	1:C:2896:THR:HA	1.89	0.55
1:B:975:GLU:CG	1:B:976:TRP:N	2.70	0.55
1:F:475:LEU:O	1:F:479:LEU:N	2.38	0.55
1:D:37:ARG:O	1:D:41:GLY:N	2.39	0.55
1:F:37:ARG:O	1:F:41:GLY:N	2.39	0.55
1:A:2743:ALA:HB3	1:A:2939:ALA:HB3	1.88	0.55
1:F:1496:SER:HB3	1:F:1578:ASP:HB3	1.88	0.55
1:E:2303:ASP:OD1	1:E:2303:ASP:N	2.39	0.55
1:B:737:TYR:HE1	1:B:862:VAL:HA	1.72	0.55
1:A:2983:LEU:HB3	1:A:2987:PHE:O	2.05	0.55
1:C:1690:GLU:O	1:C:1694:GLY:N	2.40	0.55
1:A:580:ARG:HH11	1:A:614:GLY:HA3	1.72	0.55
1:A:1734:SER:HA	1:A:1741:LEU:HD11	1.89	0.55
1:F:2704:ALA:O	1:F:2705:LYS:HD3	2.07	0.55
1:E:975:GLU:CG	1:E:976:TRP:N	2.70	0.55
1:F:1690:GLU:O	1:F:1694:GLY:N	2.40	0.55
1:A:1690:GLU:O	1:A:1694:GLY:N	2.40	0.55
1:E:1357:ILE:HG13	1:E:1710:THR:HG21	1.89	0.55
1:E:2458:ALA:HA	1:E:2824:ARG:HD2	1.89	0.55
1:B:1511:ASP:H	1:B:1514:ASP:HB2	1.70	0.55
1:D:2417:SER:O	1:D:2421:ASP:N	2.40	0.55
1:A:1357:ILE:HG13	1:A:1710:THR:HG21	1.89	0.55
1:F:975:GLU:CG	1:F:976:TRP:N	2.70	0.55
1:C:551:PRO:HG3	1:C:560:VAL:HG21	1.89	0.55
1:E:475:LEU:O	1:E:479:LEU:N	2.37	0.55
1:A:37:ARG:O	1:A:41:GLY:N	2.39	0.55
1:C:2845:PHE:CD1	1:D:2731:GLY:HA2	2.39	0.55
1:D:2743:ALA:HB3	1:D:2939:ALA:HB3	1.88	0.55
1:E:2653:VAL:HA	1:E:3051:MET:HE3	1.89	0.55
1:B:2957:PRO:HD3	1:B:2980:PRO:HB3	1.88	0.55
1:B:2704:ALA:O	1:B:2705:LYS:HD3	2.07	0.55
1:B:475:LEU:O	1:B:479:LEU:N	2.37	0.54
1:A:2478:ARG:NH1	1:A:2482:GLU:OE1	2.39	0.54
1:D:176:VAL:O	1:D:180:ALA:N	2.36	0.54
1:E:1690:GLU:O	1:E:1694:GLY:N	2.40	0.54
1:F:2303:ASP:OD1	1:F:2303:ASP:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1690:GLU:O	1:B:1694:GLY:N	2.40	0.54
1:E:33:ALA:O	1:E:37:ARG:N	2.35	0.54
1:F:1618:LEU:HG	1:F:1619:VAL:HG23	1.88	0.54
1:E:737:TYR:HE1	1:E:862:VAL:HA	1.72	0.54
1:D:737:TYR:HE1	1:D:862:VAL:HA	1.72	0.54
1:B:2458:ALA:HA	1:B:2824:ARG:HD2	1.89	0.54
1:D:931:VAL:HG13	1:D:933:VAL:CG1	2.37	0.54
1:B:931:VAL:HG13	1:B:933:VAL:CG1	2.37	0.54
1:E:580:ARG:HH11	1:E:614:GLY:HA3	1.73	0.54
1:D:668:THR:OG1	1:D:698:ILE:HD11	2.08	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:C:1496:SER:HB3	1:C:1578:ASP:HB3	1.89	0.54
1:C:763:SER:O	1:C:766:ASP:N	2.41	0.54
1:A:2458:ALA:HA	1:A:2824:ARG:HD2	1.89	0.54
1:C:737:TYR:HE1	1:C:862:VAL:HA	1.72	0.54
1:C:931:VAL:HG13	1:C:933:VAL:CG1	2.37	0.54
1:B:2860:ALA:HB1	1:B:3005:LEU:HD13	1.90	0.54
1:C:580:ARG:HH11	1:C:614:GLY:HA3	1.73	0.54
1:F:540:ASN:HD21	1:F:544:ILE:HG13	1.71	0.54
1:F:2881:VAL:HG13	1:F:2885:ASP:HB2	1.88	0.54
1:A:2653:VAL:HA	1:A:3051:MET:HE3	1.87	0.54
1:C:2458:ALA:HA	1:C:2824:ARG:HD2	1.89	0.54
1:D:1690:GLU:O	1:D:1694:GLY:N	2.40	0.54
1:A:763:SER:O	1:A:766:ASP:N	2.41	0.54
1:F:2458:ALA:HA	1:F:2824:ARG:HD2	1.89	0.54
1:D:1734:SER:HA	1:D:1741:LEU:HD11	1.89	0.54
1:F:668:THR:OG1	1:F:698:ILE:HD11	2.08	0.54
1:A:1618:LEU:HG	1:A:1619:VAL:HG23	1.88	0.54
1:C:2631:PRO:HG3	1:C:2649:LEU:HD13	1.90	0.54
1:A:551:PRO:HG3	1:A:560:VAL:HG21	1.89	0.54
1:B:1226:ARG:HB3	1:B:1282:THR:HG21	1.90	0.54
1:E:1420:THR:OG1	1:E:1485:HIS:NE2	2.38	0.54
1:D:763:SER:O	1:D:766:ASP:N	2.41	0.54
1:D:1496:SER:HB3	1:D:1578:ASP:HB3	1.89	0.54
1:C:273:ARG:HD2	1:C:282:VAL:HG12	1.90	0.54
1:C:2731:GLY:HA2	1:D:2845:PHE:CD1	2.39	0.54
1:D:580:ARG:HH11	1:D:614:GLY:HA3	1.72	0.54
1:D:2012:GLY:C	1:E:2591:ARG:NH1	2.61	0.54
1:B:668:THR:OG1	1:B:698:ILE:HD11	2.08	0.54
1:E:668:THR:OG1	1:E:698:ILE:HD11	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2551:PRO:O	1:D:2617:LEU:HB2	2.08	0.54
1:A:1724:TYR:OH	1:B:267:GLU:OE2	2.07	0.54
1:C:716:ALA:HA	1:C:719:VAL:HG23	1.90	0.54
1:B:1010:LEU:O	1:B:1017:ILE:N	2.29	0.54
1:D:2693:GLN:O	1:D:2697:HIS:ND1	2.33	0.54
1:D:273:ARG:HD2	1:D:282:VAL:HG12	1.90	0.54
1:A:2845:PHE:CD1	1:F:2731:GLY:HA2	2.39	0.54
1:C:2743:ALA:HB3	1:C:2939:ALA:HB3	1.88	0.54
1:E:2012:GLY:C	1:F:2591:ARG:NH1	2.61	0.54
1:B:2551:PRO:O	1:B:2617:LEU:HB2	2.08	0.54
1:D:2810:GLY:HA2	1:D:2896:THR:HA	1.88	0.54
1:A:776:ASP:O	1:A:779:TRP:N	2.31	0.54
1:B:2768:ASP:OD2	1:B:2936:GLY:N	2.41	0.54
1:E:368:ILE:HG21	1:E:373:ILE:HG13	1.90	0.54
1:E:551:PRO:HG3	1:E:560:VAL:HG21	1.89	0.54
1:F:1013:THR:CG2	1:F:1014:TRP:N	2.58	0.54
1:F:792:ALA:HA	1:F:799:PHE:CE2	2.43	0.54
1:B:2012:GLY:C	1:C:2591:ARG:NH1	2.61	0.54
1:D:1618:LEU:HG	1:D:1619:VAL:HG23	1.88	0.54
1:A:1226:ARG:HB3	1:A:1282:THR:HG21	1.90	0.54
1:B:2492:VAL:HG21	1:B:2527:VAL:HG22	1.90	0.54
1:F:737:TYR:HE1	1:F:862:VAL:HA	1.72	0.54
1:B:763:SER:O	1:B:766:ASP:N	2.41	0.54
1:A:2551:PRO:O	1:A:2617:LEU:HB2	2.08	0.54
1:B:2810:GLY:HA2	1:B:2896:THR:HA	1.88	0.54
1:E:2551:PRO:O	1:E:2617:LEU:HB2	2.08	0.54
1:D:2860:ALA:HB1	1:D:3005:LEU:HD13	1.90	0.54
1:F:580:ARG:HH11	1:F:614:GLY:HA3	1.73	0.54
1:B:1618:LEU:HG	1:B:1619:VAL:HG23	1.88	0.54
1:B:456:GLU:HG2	1:B:486:GLN:HE21	1.73	0.54
1:A:2768:ASP:OD2	1:A:2936:GLY:N	2.41	0.54
1:A:2492:VAL:HG21	1:A:2527:VAL:HG22	1.90	0.54
1:C:2768:ASP:OD2	1:C:2936:GLY:N	2.41	0.54
1:D:3018:LEU:O	1:D:3022:GLU:HB2	2.08	0.54
1:C:1151:GLU:HB2	1:C:1179:ALA:HB3	1.90	0.54
1:D:1357:ILE:HG13	1:D:1710:THR:HG21	1.89	0.54
1:B:2303:ASP:N	1:B:2303:ASP:OD1	2.39	0.54
1:E:1151:GLU:HB2	1:E:1179:ALA:HB3	1.90	0.54
1:B:3018:LEU:O	1:B:3022:GLU:HB2	2.08	0.54
1:F:931:VAL:HG13	1:F:933:VAL:CG1	2.37	0.54
1:F:2860:ALA:HB1	1:F:3005:LEU:HD13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1580:PRO:O	1:C:1583:SER:OG	2.23	0.54
1:E:2246:ALA:C	1:E:2255:ARG:HH12	2.11	0.54
1:A:716:ALA:HA	1:A:719:VAL:HG23	1.90	0.54
1:A:624:TYR:HA	1:A:629:TRP:CD1	2.43	0.54
1:B:2631:PRO:HG3	1:B:2649:LEU:HD13	1.90	0.54
1:C:624:TYR:HA	1:C:629:TRP:CD1	2.43	0.54
1:D:716:ALA:HA	1:D:719:VAL:HG23	1.90	0.54
1:C:1734:SER:HA	1:C:1741:LEU:HD11	1.89	0.54
1:B:273:ARG:HD2	1:B:282:VAL:HG12	1.90	0.53
1:E:33:ALA:O	1:E:37:ARG:HG2	2.08	0.53
1:E:2860:ALA:HB1	1:E:3005:LEU:HD13	1.90	0.53
1:C:1488:VAL:HG12	1:C:1490:ARG:HH11	1.73	0.53
1:A:668:THR:OG1	1:A:698:ILE:HD11	2.08	0.53
1:C:2614:LYS:HZ1	1:D:2583:PHE:HD1	1.51	0.53
1:A:737:TYR:HE1	1:A:862:VAL:HA	1.72	0.53
1:E:526:ILE:HD12	1:E:549:PHE:HB3	1.90	0.53
1:A:745:THR:HG23	1:A:834:GLU:HA	1.90	0.53
1:F:763:SER:O	1:F:766:ASP:N	2.41	0.53
1:F:3018:LEU:O	1:F:3022:GLU:HB2	2.08	0.53
1:D:624:TYR:HA	1:D:629:TRP:CD1	2.43	0.53
1:F:526:ILE:HD12	1:F:549:PHE:HB3	1.90	0.53
1:D:33:ALA:O	1:D:37:ARG:HG2	2.08	0.53
1:C:668:THR:OG1	1:C:698:ILE:HD11	2.08	0.53
1:A:2591:ARG:NH1	1:C:2012:GLY:C	2.61	0.53
1:A:2012:GLY:C	1:B:2591:ARG:NH1	2.61	0.53
1:D:2246:ALA:C	1:D:2255:ARG:HH12	2.11	0.53
1:D:745:THR:HG23	1:D:834:GLU:HA	1.90	0.53
1:C:1089:ALA:O	1:C:1091:LEU:N	2.41	0.53
1:D:1089:ALA:O	1:D:1091:LEU:N	2.42	0.53
1:E:2631:PRO:HG3	1:E:2649:LEU:HD13	1.90	0.53
1:E:2417:SER:O	1:E:2421:ASP:N	2.40	0.53
1:B:1151:GLU:HB2	1:B:1179:ALA:HB3	1.90	0.53
1:F:2417:SER:O	1:F:2421:ASP:N	2.40	0.53
1:F:1226:ARG:HB3	1:F:1282:THR:HG21	1.90	0.53
1:E:3018:LEU:O	1:E:3022:GLU:HB2	2.08	0.53
1:F:1151:GLU:HB2	1:F:1179:ALA:HB3	1.90	0.53
1:B:745:THR:HG23	1:B:834:GLU:HA	1.90	0.53
1:A:2860:ALA:HB1	1:A:3005:LEU:HD13	1.90	0.53
1:A:2246:ALA:C	1:A:2255:ARG:HH12	2.11	0.53
1:A:1323:GLU:N	1:A:1343:LEU:O	2.41	0.53
1:D:2653:VAL:HA	1:D:3051:MET:HE3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2653:VAL:HA	1:B:3051:MET:HE3	1.90	0.53
1:A:1089:ALA:O	1:A:1091:LEU:N	2.42	0.53
1:F:2768:ASP:OD2	1:F:2936:GLY:N	2.41	0.53
1:B:526:ILE:HD12	1:B:549:PHE:HB3	1.90	0.53
1:D:1425:VAL:HG13	1:D:1474:LEU:HD13	1.91	0.53
1:C:2492:VAL:HG21	1:C:2527:VAL:HG22	1.90	0.53
1:C:456:GLU:HG2	1:C:486:GLN:HE21	1.73	0.53
1:D:2103:TRP:CG	1:D:2919:GLY:O	2.62	0.53
1:B:2246:ALA:C	1:B:2255:ARG:HH12	2.12	0.53
1:E:1323:GLU:N	1:E:1343:LEU:O	2.41	0.53
1:F:551:PRO:HG3	1:F:560:VAL:HG21	1.89	0.53
1:A:368:ILE:HG21	1:A:373:ILE:HG13	1.90	0.53
1:C:2551:PRO:O	1:C:2617:LEU:HB2	2.08	0.53
1:C:1530:LEU:HD21	1:C:1554:LEU:HD22	1.91	0.53
1:F:1357:ILE:HG13	1:F:1710:THR:HG21	1.89	0.53
1:C:1010:LEU:O	1:C:1017:ILE:N	2.29	0.53
1:B:2103:TRP:CG	1:B:2919:GLY:O	2.62	0.53
1:A:273:ARG:HD2	1:A:282:VAL:HG12	1.90	0.53
1:A:71:GLU:HG2	1:A:142:ARG:NH2	2.24	0.53
1:C:71:GLU:HG2	1:C:142:ARG:NH2	2.24	0.53
1:D:2591:ARG:NH1	1:F:2012:GLY:C	2.61	0.53
1:F:2246:ALA:C	1:F:2255:ARG:HH12	2.12	0.53
1:D:1420:THR:OG1	1:D:1485:HIS:NE2	2.38	0.53
1:D:2631:PRO:HG3	1:D:2649:LEU:HD13	1.90	0.53
1:A:456:GLU:HG2	1:A:486:GLN:HE21	1.73	0.53
1:A:1148:GLU:O	1:A:1150:ALA:N	2.42	0.53
1:D:2418:GLY:O	1:D:2422:GLU:N	2.40	0.53
1:F:1010:LEU:O	1:F:1017:ILE:N	2.30	0.53
1:A:931:VAL:HG23	1:A:933:VAL:CG1	2.37	0.53
1:C:2860:ALA:HB1	1:C:3005:LEU:HD13	1.90	0.53
1:B:580:ARG:HH11	1:B:614:GLY:HA3	1.72	0.53
1:C:2087:GLN:HA	1:C:2090:GLU:CG	2.39	0.53
1:F:1089:ALA:O	1:F:1091:LEU:N	2.42	0.53
1:F:1530:LEU:HD21	1:F:1554:LEU:HD22	1.91	0.53
1:A:1174:VAL:HB	1:A:1188:LEU:HB3	1.91	0.53
1:D:1226:ARG:HB3	1:D:1282:THR:HG21	1.90	0.53
1:B:624:TYR:HA	1:B:629:TRP:CD1	2.43	0.53
1:A:588:GLU:HB3	1:A:593:LEU:HD11	1.91	0.53
1:F:2810:GLY:HA2	1:F:2896:THR:HA	1.89	0.53
1:E:1174:VAL:HB	1:E:1188:LEU:HB3	1.91	0.53
1:F:624:TYR:HA	1:F:629:TRP:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2768:ASP:OD2	1:E:2936:GLY:N	2.41	0.53
1:F:3080:ARG:NH1	1:F:3080:ARG:HG3	2.09	0.53
1:A:2103:TRP:CG	1:A:2919:GLY:O	2.62	0.53
1:F:2103:TRP:CG	1:F:2919:GLY:O	2.62	0.53
1:F:273:ARG:HD2	1:F:282:VAL:HG12	1.90	0.53
1:B:1148:GLU:O	1:B:1150:ALA:N	2.42	0.53
1:B:1357:ILE:HG13	1:B:1710:THR:HG21	1.89	0.53
1:C:526:ILE:HD12	1:C:549:PHE:HB3	1.90	0.53
1:C:1357:ILE:HG13	1:C:1710:THR:HG21	1.89	0.53
1:C:1425:VAL:HG13	1:C:1474:LEU:HD13	1.91	0.53
1:E:624:TYR:HA	1:E:629:TRP:CD1	2.43	0.53
1:D:456:GLU:HG2	1:D:486:GLN:HE21	1.73	0.53
1:A:1538:ARG:NH1	1:A:1722:PRO:HB3	2.18	0.53
1:A:1634:ARG:HD2	1:A:1638:PRO:HA	1.91	0.53
1:A:2089:PHE:HA	1:A:2188:ARG:HH11	1.74	0.53
1:A:2087:GLN:HA	1:A:2090:GLU:CG	2.39	0.53
1:F:1733:ASN:HD22	1:F:1736:ARG:HD2	1.74	0.53
1:B:368:ILE:HG21	1:B:373:ILE:HG13	1.90	0.53
1:E:2418:GLY:O	1:E:2422:GLU:N	2.40	0.53
1:A:1225:ARG:CG	1:A:1283:ASP:OD1	2.57	0.53
1:A:1425:VAL:HG13	1:A:1474:LEU:HD13	1.91	0.53
1:D:1530:LEU:HD21	1:D:1554:LEU:HD22	1.91	0.53
1:F:1148:GLU:O	1:F:1150:ALA:N	2.42	0.53
1:F:2631:PRO:HG3	1:F:2649:LEU:HD13	1.90	0.53
1:E:931:VAL:HG13	1:E:933:VAL:CG1	2.37	0.53
1:F:71:GLU:HG2	1:F:142:ARG:NH2	2.24	0.53
1:D:2087:GLN:HA	1:D:2090:GLU:CG	2.39	0.53
1:E:1148:GLU:O	1:E:1150:ALA:N	2.42	0.53
1:F:716:ALA:HA	1:F:719:VAL:HG23	1.90	0.53
1:C:368:ILE:HG21	1:C:373:ILE:HG13	1.90	0.53
1:E:1425:VAL:HG13	1:E:1474:LEU:HD13	1.91	0.53
1:D:2740:CYS:HB2	1:D:2998:GLY:HA2	1.91	0.53
1:D:1634:ARG:HD2	1:D:1638:PRO:HA	1.91	0.53
1:E:763:SER:O	1:E:766:ASP:N	2.41	0.53
1:F:745:THR:HG23	1:F:834:GLU:HA	1.90	0.53
1:E:2492:VAL:HG21	1:E:2527:VAL:HG22	1.90	0.53
1:C:745:THR:HG23	1:C:834:GLU:HA	1.90	0.53
1:A:3018:LEU:O	1:A:3022:GLU:HB2	2.08	0.53
1:E:2215:THR:HG22	1:E:2216:GLU:HG3	1.91	0.52
1:E:1488:VAL:HG12	1:E:1490:ARG:HH11	1.73	0.52
1:F:1323:GLU:N	1:F:1343:LEU:O	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:411:PRO:HD2	1:B:1025:VAL:HG11	1.91	0.52
1:B:1089:ALA:O	1:B:1091:LEU:N	2.41	0.52
1:E:1226:ARG:HB3	1:E:1282:THR:HG21	1.90	0.52
1:B:1734:SER:HA	1:B:1741:LEU:HD11	1.89	0.52
1:C:1174:VAL:HB	1:C:1188:LEU:HB3	1.91	0.52
1:A:2737:VAL:HG21	1:F:2715:PRO:HB2	1.91	0.52
1:F:2551:PRO:O	1:F:2617:LEU:HB2	2.08	0.52
1:F:208:VAL:HG12	1:F:248:ILE:HG12	1.91	0.52
1:D:1151:GLU:HB2	1:D:1179:ALA:HB3	1.90	0.52
1:A:1010:LEU:O	1:A:1017:ILE:N	2.29	0.52
1:E:273:ARG:HD2	1:E:282:VAL:HG12	1.90	0.52
1:C:33:ALA:O	1:C:37:ARG:HG2	2.08	0.52
1:E:71:GLU:HG2	1:E:142:ARG:NH2	2.24	0.52
1:B:33:ALA:O	1:B:37:ARG:HG2	2.08	0.52
1:E:2087:GLN:HA	1:E:2090:GLU:CG	2.39	0.52
1:B:1323:GLU:N	1:B:1343:LEU:O	2.42	0.52
1:D:1323:GLU:N	1:D:1343:LEU:O	2.41	0.52
1:F:1225:ARG:CG	1:F:1283:ASP:OD1	2.57	0.52
1:E:456:GLU:HG2	1:E:486:GLN:HE21	1.73	0.52
1:D:961:ARG:NH2	1:D:1196:GLY:O	2.42	0.52
1:C:3018:LEU:O	1:C:3022:GLU:HB2	2.08	0.52
1:D:2458:ALA:HA	1:D:2824:ARG:HD2	1.89	0.52
1:B:1225:ARG:CG	1:B:1283:ASP:OD1	2.57	0.52
1:F:368:ILE:HG21	1:F:373:ILE:HG13	1.90	0.52
1:E:2103:TRP:CG	1:E:2919:GLY:O	2.62	0.52
1:E:1634:ARG:HD2	1:E:1638:PRO:HA	1.91	0.52
1:A:2215:THR:HG22	1:A:2216:GLU:HG3	1.91	0.52
1:F:2087:GLN:HA	1:F:2090:GLU:CG	2.39	0.52
1:E:411:PRO:HD2	1:E:1025:VAL:HG11	1.91	0.52
1:D:411:PRO:HD2	1:D:1025:VAL:HG11	1.91	0.52
1:F:588:GLU:HB3	1:F:593:LEU:HD11	1.91	0.52
1:B:1733:ASN:HD22	1:B:1736:ARG:HD2	1.74	0.52
1:B:961:ARG:NH2	1:B:1196:GLY:O	2.42	0.52
1:F:2492:VAL:HG21	1:F:2527:VAL:HG22	1.90	0.52
1:D:526:ILE:HD12	1:D:549:PHE:HB3	1.90	0.52
1:D:368:ILE:HG21	1:D:373:ILE:HG13	1.90	0.52
1:F:456:GLU:HG2	1:F:486:GLN:HE21	1.73	0.52
1:F:1093:PRO:HB3	1:F:1277:HIS:HE1	1.75	0.52
1:A:930:PRO:O	1:A:930:PRO:CG	2.57	0.52
1:B:1488:VAL:HG12	1:B:1490:ARG:HH11	1.73	0.52
1:F:1488:VAL:HG12	1:F:1490:ARG:HH11	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2246:ALA:C	1:C:2255:ARG:HH12	2.11	0.52
1:C:2715:PRO:HB2	1:D:2737:VAL:HG21	1.92	0.52
1:E:1119:THR:O	1:E:1123:PHE:HB2	2.10	0.52
1:C:1733:ASN:HD22	1:C:1736:ARG:HD2	1.74	0.52
1:E:208:VAL:HG12	1:E:248:ILE:HG12	1.92	0.52
1:A:208:VAL:HB	1:A:255:LEU:HD13	1.92	0.52
1:B:1174:VAL:HB	1:B:1188:LEU:HB3	1.91	0.52
1:A:1151:GLU:HB2	1:A:1179:ALA:HB3	1.90	0.52
1:A:2631:PRO:HG3	1:A:2649:LEU:HD13	1.90	0.52
1:E:745:THR:HG23	1:E:834:GLU:HA	1.90	0.52
1:F:33:ALA:O	1:F:37:ARG:HG2	2.09	0.52
1:E:2089:PHE:HA	1:E:2188:ARG:HH11	1.74	0.52
1:B:2698:GLY:HA3	1:B:2705:LYS:HG3	1.92	0.52
1:A:208:VAL:HG12	1:A:248:ILE:HG12	1.92	0.52
1:C:2808:ARG:HB2	1:C:2895:SER:O	2.10	0.52
1:F:961:ARG:NH2	1:F:1196:GLY:O	2.42	0.52
1:D:2768:ASP:OD2	1:D:2936:GLY:N	2.41	0.52
1:E:588:GLU:HB3	1:E:593:LEU:HD11	1.91	0.52
1:B:716:ALA:HA	1:B:719:VAL:HG23	1.90	0.52
1:E:961:ARG:NH2	1:E:1196:GLY:O	2.42	0.52
1:B:2808:ARG:HB2	1:B:2895:SER:O	2.10	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:B:400:TRP:CZ3	1:B:636:PRO:HB2	2.45	0.52
1:A:2715:PRO:HB2	1:F:2737:VAL:HG21	1.91	0.52
1:C:1225:ARG:CG	1:C:1283:ASP:OD1	2.57	0.52
1:F:931:VAL:HG13	1:F:933:VAL:HG13	1.92	0.52
1:C:2103:TRP:CG	1:C:2919:GLY:O	2.62	0.52
1:E:930:PRO:CG	1:E:930:PRO:O	2.57	0.52
1:A:33:ALA:O	1:A:37:ARG:HG2	2.08	0.52
1:D:71:GLU:HG2	1:D:142:ARG:NH2	2.24	0.52
1:B:2087:GLN:HA	1:B:2090:GLU:CG	2.39	0.52
1:E:106:ALA:O	1:E:112:PRO:HD2	2.10	0.52
1:A:411:PRO:HD2	1:A:1025:VAL:HG11	1.91	0.52
1:A:542:VAL:HG11	1:A:964:VAL:HB	1.92	0.52
1:F:1425:VAL:HG13	1:F:1474:LEU:HD13	1.91	0.52
1:B:542:VAL:HG11	1:B:964:VAL:HB	1.92	0.52
1:D:1148:GLU:O	1:D:1150:ALA:N	2.42	0.52
1:D:2492:VAL:HG21	1:D:2527:VAL:HG22	1.90	0.52
1:C:961:ARG:NH2	1:C:1196:GLY:O	2.42	0.52
1:D:792:ALA:HA	1:D:799:PHE:CE2	2.43	0.52

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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	0.52
1:A:577:GLU:OE2	2:A:4000:FMN:O3'	2.28	0.52
1:C:1622:PRO:HD3	1:C:1685:LEU:HD21	1.92	0.52
1:E:1089:ALA:O	1:E:1091:LEU:N	2.42	0.52
1:F:2698:GLY:HA3	1:F:2705:LYS:HG3	1.92	0.52
1:A:1530:LEU:HD21	1:A:1554:LEU:HD22	1.91	0.52
1:C:144:GLY:O	1:C:148:THR:N	2.34	0.52
1:A:400:TRP:CZ3	1:A:636:PRO:HB2	2.45	0.52
1:E:1110:VAL:HG13	1:E:1172:VAL:HG11	1.92	0.52
1:F:206:PRO:HG2	1:F:294:VAL:HA	1.92	0.52
1:C:1148:GLU:O	1:C:1150:ALA:N	2.42	0.52
1:C:400:TRP:CZ3	1:C:636:PRO:HB2	2.45	0.52
1:F:400:TRP:CZ3	1:F:636:PRO:HB2	2.45	0.52
1:A:1110:VAL:HG13	1:A:1172:VAL:HG11	1.92	0.52
1:B:2552:ASP:OD1	1:B:2552:ASP:N	2.43	0.52
1:E:1093:PRO:HB3	1:E:1277:HIS:HE1	1.75	0.52
1:D:588:GLU:HB3	1:D:593:LEU:HD11	1.91	0.52
1:C:3080:ARG:HG3	1:C:3080:ARG:NH1	2.09	0.52
1:E:1538:ARG:NH1	1:E:1722:PRO:HB3	2.18	0.52
1:F:2740:CYS:HB2	1:F:2998:GLY:HA2	1.92	0.52
1:D:2215:THR:HG22	1:D:2216:GLU:HG3	1.91	0.52
1:D:1622:PRO:HD3	1:D:1685:LEU:HD21	1.92	0.52
1:C:2653:VAL:HA	1:C:3051:MET:HE3	1.92	0.52
1:F:1287:VAL:O	1:F:1291:LYS:HG3	2.10	0.52
1:B:2236:LEU:HD23	1:B:2288:HIS:HB2	1.92	0.52
1:D:1225:ARG:CG	1:D:1283:ASP:OD1	2.57	0.52
1:B:1530:LEU:HD21	1:B:1554:LEU:HD22	1.91	0.52
1:A:1733:ASN:HD22	1:A:1736:ARG:HD2	1.74	0.52
1:C:2737:VAL:HG21	1:D:2715:PRO:HB2	1.91	0.52
1:B:1287:VAL:O	1:B:1291:LYS:HG3	2.10	0.52
1:F:2552:ASP:OD1	1:F:2552:ASP:N	2.43	0.52
1:D:1093:PRO:HB3	1:D:1277:HIS:HE1	1.75	0.52
1:B:208:VAL:HB	1:B:255:LEU:HD13	1.92	0.52
1:C:1226:ARG:HB3	1:C:1282:THR:HG21	1.90	0.52
1:A:1695:LEU:HD23	1:B:257:ARG:NH1	2.23	0.52
1:A:2740:CYS:HB2	1:A:2998:GLY:HA2	1.92	0.52
1:B:71:GLU:HG2	1:B:142:ARG:NH2	2.24	0.52
1:C:2089:PHE:HA	1:C:2188:ARG:HH11	1.74	0.52
1:F:1164:THR:HA	1:F:1204:THR:O	2.10	0.52
1:A:1164:THR:HA	1:A:1204:THR:O	2.10	0.52
1:F:336:TRP:CE2	1:F:360:LEU:HD11	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1087:PHE:HB3	1:C:117:LYS:HZ3	1.74	0.52
1:E:2401:ILE:HG23	1:E:2403:ILE:H	1.75	0.52
1:E:208:VAL:HB	1:E:255:LEU:HD13	1.92	0.52
1:C:3000:GLY:HA3	1:D:2720:ALA:HB1	1.92	0.52
1:F:2418:GLY:O	1:F:2422:GLU:N	2.41	0.52
1:B:206:PRO:HG2	1:B:294:VAL:HA	1.92	0.52
1:B:2417:SER:O	1:B:2421:ASP:N	2.40	0.52
1:E:716:ALA:HA	1:E:719:VAL:HG23	1.90	0.52
1:E:1287:VAL:O	1:E:1291:LYS:HG3	2.10	0.52
1:D:931:VAL:HG13	1:D:933:VAL:HG13	1.92	0.52
1:B:2861:LEU:HD13	1:E:3074:LEU:HB2	1.92	0.52
1:F:1634:ARG:HD2	1:F:1638:PRO:HA	1.91	0.52
1:F:2089:PHE:HA	1:F:2188:ARG:HH11	1.74	0.52
1:A:508:GLN:HA	1:A:540:ASN:HB3	1.92	0.52
1:D:1488:VAL:HG12	1:D:1490:ARG:HH11	1.73	0.52
1:C:1323:GLU:N	1:C:1343:LEU:O	2.41	0.52
1:C:411:PRO:HD2	1:C:1025:VAL:HG11	1.91	0.52
1:B:2583:PHE:HD1	1:E:2614:LYS:HZ1	1.51	0.52
1:B:208:VAL:HG12	1:B:248:ILE:HG12	1.92	0.52
1:B:2737:VAL:HG21	1:E:2715:PRO:HB2	1.92	0.52
1:C:2720:ALA:HB1	1:D:3000:GLY:HA3	1.92	0.52
1:B:1110:VAL:HG13	1:B:1172:VAL:HG11	1.92	0.52
1:F:420:LYS:HB3	1:F:641:ASP:OD2	2.10	0.52
1:E:1530:LEU:HD21	1:E:1554:LEU:HD22	1.91	0.52
1:F:1174:VAL:HB	1:F:1188:LEU:HB3	1.91	0.52
1:E:1225:ARG:CG	1:E:1283:ASP:OD1	2.57	0.52
1:B:405:PRO:HG3	1:B:625:LEU:HG	1.92	0.52
1:C:588:GLU:HB3	1:C:593:LEU:HD11	1.91	0.52
1:D:208:VAL:HB	1:D:255:LEU:HD13	1.92	0.52
1:E:931:VAL:HG13	1:E:933:VAL:HG13	1.92	0.51
1:E:2690:THR:O	1:E:2693:GLN:HG2	2.11	0.51
1:B:1695:LEU:HD23	1:C:257:ARG:NH1	2.23	0.51
1:E:2740:CYS:HB2	1:E:2998:GLY:HA2	1.91	0.51
1:D:2089:PHE:HA	1:D:2188:ARG:HH11	1.74	0.51
1:D:336:TRP:CE2	1:D:360:LEU:HD11	2.45	0.51
1:A:1488:VAL:HG12	1:A:1490:ARG:HH11	1.73	0.51
1:A:1580:PRO:O	1:A:1583:SER:OG	2.22	0.51
1:A:1622:PRO:HD3	1:A:1685:LEU:HD21	1.92	0.51
1:B:336:TRP:CE2	1:B:360:LEU:HD11	2.45	0.51
1:D:106:ALA:O	1:D:112:PRO:HD2	2.10	0.51
1:C:2698:GLY:HA3	1:C:2705:LYS:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1287:VAL:O	1:A:1291:LYS:HG3	2.10	0.51
1:C:2552:ASP:N	1:C:2552:ASP:OD1	2.43	0.51
1:C:1598:GLU:HG2	1:C:1666:ILE:HD13	1.92	0.51
1:C:208:VAL:HB	1:C:255:LEU:HD13	1.92	0.51
1:E:1733:ASN:HD22	1:E:1736:ARG:HD2	1.74	0.51
1:A:526:ILE:HD12	1:A:549:PHE:HB3	1.90	0.51
1:C:792:ALA:HA	1:C:799:PHE:CE2	2.43	0.51
1:E:792:ALA:HA	1:E:799:PHE:CE2	2.43	0.51
1:B:1634:ARG:HD2	1:B:1638:PRO:HA	1.91	0.51
1:C:1634:ARG:HD2	1:C:1638:PRO:HA	1.91	0.51
1:C:106:ALA:O	1:C:112:PRO:HD2	2.10	0.51
1:A:2401:ILE:HG23	1:A:2403:ILE:H	1.75	0.51
1:C:1287:VAL:O	1:C:1291:LYS:HG3	2.10	0.51
1:A:2417:SER:O	1:A:2421:ASP:N	2.40	0.51
1:B:1119:THR:O	1:B:1123:PHE:HB2	2.10	0.51
1:D:1287:VAL:O	1:D:1291:LYS:HG3	2.10	0.51
1:F:2690:THR:O	1:F:2693:GLN:HG2	2.11	0.51
1:B:2215:THR:HG22	1:B:2216:GLU:HG3	1.92	0.51
1:A:1087:PHE:HB3	1:B:117:LYS:HZ3	1.76	0.51
1:A:2790:MET:HG2	1:A:2809:LEU:HD11	1.93	0.51
1:A:206:PRO:HG2	1:A:294:VAL:HA	1.92	0.51
1:B:420:LYS:HB3	1:B:641:ASP:OD2	2.10	0.51
1:C:420:LYS:HB3	1:C:641:ASP:OD2	2.10	0.51
1:A:961:ARG:NH2	1:A:1196:GLY:O	2.42	0.51
1:B:588:GLU:HB3	1:B:593:LEU:HD11	1.91	0.51
1:D:746:TYR:HA	1:D:749:TRP:HD1	1.76	0.51
1:A:2690:THR:O	1:A:2693:GLN:HG2	2.11	0.51
1:A:2731:GLY:O	1:F:2846:ALA:N	2.44	0.51
1:B:2089:PHE:HA	1:B:2188:ARG:HH11	1.74	0.51
1:D:577:GLU:OE2	2:D:4000:FMN:O3'	2.28	0.51
1:F:411:PRO:HD2	1:F:1025:VAL:HG11	1.91	0.51
1:E:2236:LEU:HD23	1:E:2288:HIS:HB2	1.92	0.51
1:D:542:VAL:HG11	1:D:964:VAL:HB	1.92	0.51
1:A:746:TYR:HA	1:A:749:TRP:HD1	1.76	0.51
1:A:2418:GLY:O	1:A:2422:GLU:N	2.40	0.51
1:C:1093:PRO:HB3	1:C:1277:HIS:HE1	1.75	0.51
1:D:1110:VAL:HG13	1:D:1172:VAL:HG11	1.92	0.51
1:A:2720:ALA:HB1	1:F:3000:GLY:HA3	1.92	0.51
1:D:1598:GLU:HG2	1:D:1666:ILE:HD13	1.93	0.51
1:D:1119:THR:O	1:D:1123:PHE:HB2	2.10	0.51
1:B:792:ALA:HA	1:B:799:PHE:CE2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3074:LEU:HB2	1:D:2861:LEU:HD13	1.92	0.51
1:A:2861:LEU:HD13	1:F:3074:LEU:HB2	1.92	0.51
1:C:1164:THR:HA	1:C:1204:THR:O	2.10	0.51
1:B:577:GLU:OE2	2:B:4000:FMN:O3'	2.28	0.51
1:B:106:ALA:O	1:B:112:PRO:HD2	2.10	0.51
1:A:420:LYS:HB3	1:A:641:ASP:OD2	2.10	0.51
1:B:1425:VAL:HG13	1:B:1474:LEU:HD13	1.91	0.51
1:A:176:VAL:O	1:A:180:ALA:N	2.36	0.51
1:D:1174:VAL:HB	1:D:1188:LEU:HB3	1.91	0.51
1:A:2808:ARG:HB2	1:A:2895:SER:O	2.10	0.51
1:D:930:PRO:CG	1:D:930:PRO:O	2.57	0.51
1:A:931:VAL:HG23	1:A:933:VAL:HG13	1.91	0.51
1:A:2846:ALA:N	1:F:2731:GLY:O	2.44	0.51
1:B:1164:THR:HA	1:B:1204:THR:O	2.10	0.51
1:D:1164:THR:HA	1:D:1204:THR:O	2.10	0.51
1:A:2753:LYS:HZ2	1:F:2748:GLU:HG2	1.74	0.51
1:A:1317:GLY:H	1:A:1324:VAL:HG12	1.76	0.51
1:B:1598:GLU:HG2	1:B:1666:ILE:HD13	1.93	0.51
1:F:272:GLU:HB3	1:F:280:GLY:O	2.11	0.51
1:D:42:GLU:CD	1:D:42:GLU:H	2.14	0.51
1:C:42:GLU:H	1:C:42:GLU:CD	2.14	0.51
1:A:257:ARG:NH1	1:C:1695:LEU:HD23	2.23	0.51
1:C:2731:GLY:O	1:D:2846:ALA:N	2.44	0.51
1:A:3074:LEU:HB2	1:F:2861:LEU:HD13	1.92	0.51
1:E:577:GLU:OE2	2:E:4000:FMN:O3'	2.28	0.51
1:E:336:TRP:CE2	1:E:360:LEU:HD11	2.45	0.51
1:E:2962:ASP:OD1	1:E:2962:ASP:N	2.34	0.51
1:B:2667:THR:HG21	1:B:3058:ARG:HH11	1.76	0.51
1:C:2180:LYS:HZ1	1:C:2962:ASP:HB3	1.75	0.51
1:E:2790:MET:HG2	1:E:2809:LEU:HD11	1.93	0.51
1:D:2401:ILE:HG23	1:D:2403:ILE:H	1.76	0.51
1:E:176:VAL:O	1:E:180:ALA:N	2.36	0.51
1:D:400:TRP:CZ3	1:D:636:PRO:HB2	2.45	0.51
1:E:420:LYS:HB3	1:E:641:ASP:OD2	2.10	0.51
1:D:1733:ASN:HD22	1:D:1736:ARG:HD2	1.74	0.51
1:E:2754:ILE:HA	1:E:2759:ALA:O	2.11	0.51
1:C:1119:THR:O	1:C:1123:PHE:HB2	2.10	0.51
1:F:1110:VAL:HG13	1:F:1172:VAL:HG11	1.92	0.51
1:F:930:PRO:O	1:F:930:PRO:CG	2.57	0.51
1:B:931:VAL:HG13	1:B:933:VAL:HG13	1.92	0.51
1:B:2846:ALA:N	1:E:2731:GLY:O	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2215:THR:HG22	1:C:2216:GLU:HG3	1.91	0.51
1:F:1634:ARG:HH11	1:F:1639:ALA:N	2.08	0.51
1:B:1622:PRO:HD3	1:B:1685:LEU:HD21	1.92	0.51
1:C:577:GLU:OE2	2:C:4000:FMN:O3'	2.28	0.51
1:A:1093:PRO:HB3	1:A:1277:HIS:HE1	1.75	0.51
1:B:2754:ILE:HA	1:B:2759:ALA:O	2.11	0.51
1:C:2236:LEU:HD23	1:C:2288:HIS:HB2	1.92	0.51
1:F:1119:THR:O	1:F:1123:PHE:HB2	2.10	0.51
1:D:2754:ILE:HA	1:D:2759:ALA:O	2.11	0.51
1:B:3000:GLY:HA3	1:E:2720:ALA:HB1	1.92	0.51
1:A:1119:THR:O	1:A:1123:PHE:HB2	2.10	0.51
1:C:746:TYR:HA	1:C:749:TRP:HD1	1.76	0.51
1:E:272:GLU:HB3	1:E:280:GLY:O	2.11	0.51
1:E:746:TYR:HA	1:E:749:TRP:HD1	1.76	0.51
1:C:2740:CYS:HB2	1:C:2998:GLY:HA2	1.91	0.51
1:E:1164:THR:HA	1:E:1204:THR:O	2.10	0.51
1:E:508:GLN:HA	1:E:540:ASN:HB3	1.92	0.51
1:B:42:GLU:H	1:B:42:GLU:CD	2.14	0.51
1:E:1622:PRO:HD3	1:E:1685:LEU:HD21	1.92	0.51
1:F:577:GLU:OE2	2:F:4000:FMN:O3'	2.28	0.51
1:B:2753:LYS:HZ2	1:E:2748:GLU:HG2	1.76	0.51
1:F:106:ALA:O	1:F:112:PRO:HD2	2.10	0.51
1:E:780:ARG:HD2	1:E:816:LEU:HB3	1.93	0.51
1:D:2361:VAL:HG11	1:D:2398:LEU:HD23	1.93	0.51
1:F:2808:ARG:HB2	1:F:2895:SER:O	2.10	0.51
1:B:2829:LEU:HD21	1:B:3014:PHE:HE2	1.76	0.51
1:C:2690:THR:O	1:C:2693:GLN:HG2	2.11	0.51
1:A:106:ALA:O	1:A:112:PRO:HD2	2.10	0.51
1:D:208:VAL:HG12	1:D:248:ILE:HG12	1.92	0.51
1:D:1317:GLY:H	1:D:1324:VAL:HG12	1.76	0.51
1:C:1110:VAL:HG13	1:C:1172:VAL:HG11	1.92	0.51
1:A:1598:GLU:HG2	1:A:1666:ILE:HD13	1.93	0.51
1:E:2808:ARG:HB2	1:E:2895:SER:O	2.10	0.51
1:A:3000:GLY:HA3	1:F:2720:ALA:HB1	1.92	0.51
1:C:542:VAL:HG11	1:C:964:VAL:HB	1.92	0.51
1:C:508:GLN:HA	1:C:540:ASN:HB3	1.92	0.50
1:D:117:LYS:HZ1	1:F:1087:PHE:HB3	1.74	0.50
1:F:1622:PRO:HD3	1:F:1685:LEU:HD21	1.92	0.50
1:C:1986:LEU:HA	1:C:1989:PHE:HD2	1.76	0.50
1:C:2401:ILE:HG23	1:C:2403:ILE:H	1.76	0.50
1:C:780:ARG:HD2	1:C:816:LEU:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:780:ARG:HD2	1:D:816:LEU:HB3	1.93	0.50
1:B:1093:PRO:HB3	1:B:1277:HIS:HE1	1.75	0.50
1:D:2829:LEU:HD21	1:D:3014:PHE:HE2	1.76	0.50
1:D:272:GLU:HB3	1:D:280:GLY:O	2.11	0.50
1:E:2662:SER:HB2	1:E:2833:LEU:HD22	1.93	0.50
1:F:2754:ILE:HA	1:F:2759:ALA:O	2.11	0.50
1:C:930:PRO:O	1:C:930:PRO:CG	2.57	0.50
1:F:1331:ILE:HG13	1:F:1336:VAL:HG21	1.94	0.50
1:B:3074:LEU:HB2	1:E:2861:LEU:HD13	1.92	0.50
1:D:508:GLN:HA	1:D:540:ASN:HB3	1.92	0.50
1:C:2962:ASP:OD1	1:C:2962:ASP:N	2.34	0.50
1:A:2667:THR:HG21	1:A:3058:ARG:HH11	1.76	0.50
1:A:1986:LEU:HA	1:A:1989:PHE:HD2	1.77	0.50
1:B:2790:MET:HG2	1:B:2809:LEU:HD11	1.93	0.50
1:B:2401:ILE:HG23	1:B:2403:ILE:H	1.76	0.50
1:B:1590:VAL:HG11	1:B:1671:TRP:CD2	2.47	0.50
1:A:2698:GLY:HA3	1:A:2705:LYS:HG3	1.92	0.50
1:F:208:VAL:HB	1:F:255:LEU:HD13	1.92	0.50
1:B:1380:ALA:HB1	1:B:1474:LEU:HD12	1.93	0.50
1:A:272:GLU:HB3	1:A:280:GLY:O	2.11	0.50
1:F:2236:LEU:HD23	1:F:2288:HIS:HB2	1.92	0.50
1:B:272:GLU:HB3	1:B:280:GLY:O	2.11	0.50
1:D:206:PRO:HG2	1:D:294:VAL:HA	1.92	0.50
1:F:405:PRO:HG3	1:F:625:LEU:HG	1.93	0.50
1:B:1012:GLY:C	1:B:1013:THR:HG22	2.32	0.50
1:B:2690:THR:O	1:B:2693:GLN:HG2	2.11	0.50
1:B:1331:ILE:HG13	1:B:1336:VAL:HG21	1.94	0.50
1:B:2740:CYS:HB2	1:B:2998:GLY:HA2	1.91	0.50
1:F:508:GLN:HA	1:F:540:ASN:HB3	1.92	0.50
1:A:2245:VAL:HG13	1:A:2255:ARG:CZ	2.41	0.50
1:F:2245:VAL:HG13	1:F:2255:ARG:CZ	2.42	0.50
1:E:940:ARG:CG	1:E:940:ARG:O	2.60	0.50
1:D:2667:THR:HG21	1:D:3058:ARG:HH11	1.76	0.50
1:A:336:TRP:CE2	1:A:360:LEU:HD11	2.45	0.50
1:E:2554:ALA:HB1	1:E:2614:LYS:HZ2	1.75	0.50
1:C:1380:ALA:HB1	1:C:1474:LEU:HD12	1.93	0.50
1:E:1380:ALA:HB1	1:E:1474:LEU:HD12	1.93	0.50
1:B:2662:SER:HB2	1:B:2833:LEU:HD22	1.94	0.50
1:E:1317:GLY:H	1:E:1324:VAL:HG12	1.76	0.50
1:E:2140:VAL:HG22	1:E:2165:ILE:HD12	1.94	0.50
1:D:420:LYS:HB3	1:D:641:ASP:OD2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2140:VAL:HG22	1:B:2165:ILE:HD12	1.94	0.50
1:F:542:VAL:HG11	1:F:964:VAL:HB	1.92	0.50
1:D:2236:LEU:HD23	1:D:2288:HIS:HB2	1.92	0.50
1:C:1012:GLY:C	1:C:1013:THR:HG22	2.32	0.50
1:B:930:PRO:O	1:B:930:PRO:CG	2.57	0.50
1:A:1331:ILE:HG13	1:A:1336:VAL:HG21	1.94	0.50
1:E:1634:ARG:HH11	1:E:1639:ALA:N	2.08	0.50
1:C:1590:VAL:HG11	1:C:1671:TRP:CD2	2.47	0.50
1:F:1590:VAL:HG11	1:F:1671:TRP:CD2	2.47	0.50
1:A:42:GLU:H	1:A:42:GLU:CD	2.14	0.50
1:B:2245:VAL:HG13	1:B:2255:ARG:CZ	2.41	0.50
1:E:2056:PHE:CZ	1:E:2180:LYS:HE2	2.47	0.50
1:E:2667:THR:HG21	1:E:3058:ARG:HH11	1.76	0.50
1:F:780:ARG:HD2	1:F:816:LEU:HB3	1.93	0.50
1:E:1986:LEU:HA	1:E:1989:PHE:HD2	1.76	0.50
1:C:208:VAL:HG12	1:C:248:ILE:HG12	1.92	0.50
1:D:2808:ARG:HB2	1:D:2895:SER:O	2.10	0.50
1:C:176:VAL:O	1:C:180:ALA:N	2.36	0.50
1:E:2261:LYS:HA	1:E:2265:TRP:HB2	1.94	0.50
1:C:2754:ILE:HA	1:C:2759:ALA:O	2.11	0.50
1:C:2662:SER:HB2	1:C:2833:LEU:HD22	1.93	0.50
1:F:1317:GLY:H	1:F:1324:VAL:HG12	1.76	0.50
1:A:2140:VAL:HG22	1:A:2165:ILE:HD12	1.93	0.50
1:C:1317:GLY:H	1:C:1324:VAL:HG12	1.76	0.50
1:D:1010:LEU:CG	1:D:1017:ILE:HB	2.42	0.50
1:D:1331:ILE:HG13	1:D:1336:VAL:HG21	1.94	0.50
1:B:1580:PRO:O	1:B:1583:SER:OG	2.22	0.50
1:C:2753:LYS:HZ2	1:D:2748:GLU:HG2	1.74	0.50
1:E:2698:GLY:HA3	1:E:2705:LYS:HG3	1.92	0.50
1:D:2698:GLY:HA3	1:D:2705:LYS:HG3	1.92	0.50
1:C:405:PRO:HG3	1:C:625:LEU:HG	1.93	0.50
1:F:746:TYR:HA	1:F:749:TRP:HD1	1.76	0.50
1:D:144:GLY:O	1:D:148:THR:N	2.34	0.50
1:B:2720:ALA:HB1	1:E:3000:GLY:HA3	1.92	0.50
1:B:2261:LYS:HA	1:B:2265:TRP:HB2	1.94	0.50
1:B:1010:LEU:CG	1:B:1017:ILE:HB	2.42	0.50
1:A:1010:LEU:CG	1:A:1017:ILE:HB	2.42	0.50
1:C:2846:ALA:N	1:D:2731:GLY:O	2.44	0.50
1:D:2245:VAL:HG13	1:D:2255:ARG:CZ	2.41	0.50
1:A:1711:VAL:HA	1:A:1714:LEU:HG	1.94	0.50
1:B:2361:VAL:HG11	1:B:2398:LEU:HD23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1986:LEU:HA	1:D:1989:PHE:HD2	1.77	0.50
1:A:1380:ALA:HB1	1:A:1474:LEU:HD12	1.93	0.50
1:A:2754:ILE:HA	1:A:2759:ALA:O	2.11	0.50
1:F:1598:GLU:HG2	1:F:1666:ILE:HD13	1.93	0.50
1:F:2140:VAL:HG22	1:F:2165:ILE:HD12	1.94	0.50
1:C:2140:VAL:HG22	1:C:2165:ILE:HD12	1.93	0.50
1:E:42:GLU:H	1:E:42:GLU:CD	2.14	0.50
1:C:2861:LEU:HD13	1:D:3074:LEU:HB2	1.92	0.50
1:B:2554:ALA:HB1	1:B:2614:LYS:HZ2	1.76	0.50
1:C:2361:VAL:HG11	1:C:2398:LEU:HD23	1.93	0.50
1:F:207:MET:HA	1:F:249:THR:HG22	1.94	0.50
1:D:405:PRO:HG3	1:D:625:LEU:HG	1.93	0.50
1:C:2274:LEU:HD23	1:C:2277:ILE:HD12	1.94	0.50
1:A:2552:ASP:OD1	1:A:2552:ASP:N	2.43	0.50
1:E:1207:VAL:HG13	1:E:1207:VAL:O	2.12	0.50
1:C:206:PRO:HG2	1:C:294:VAL:HA	1.92	0.50
1:A:2236:LEU:HD23	1:A:2288:HIS:HB2	1.92	0.50
1:E:206:PRO:HG2	1:E:294:VAL:HA	1.92	0.50
1:D:2690:THR:O	1:D:2693:GLN:HG2	2.11	0.50
1:B:1634:ARG:HH11	1:B:1639:ALA:N	2.08	0.50
1:A:1634:ARG:HH11	1:A:1639:ALA:N	2.08	0.50
1:A:117:LYS:HZ1	1:C:1087:PHE:HB3	1.76	0.50
1:C:336:TRP:CE2	1:C:360:LEU:HD11	2.45	0.50
1:B:940:ARG:O	1:B:940:ARG:CG	2.60	0.50
1:F:2790:MET:HG2	1:F:2809:LEU:HD11	1.93	0.50
1:A:780:ARG:HD2	1:A:816:LEU:HB3	1.93	0.50
1:C:2582:GLN:HB3	1:D:2554:ALA:HB2	1.94	0.50
1:C:272:GLU:HB3	1:C:280:GLY:O	2.11	0.50
1:B:1207:VAL:O	1:B:1207:VAL:HG13	2.12	0.50
1:B:2715:PRO:HB2	1:E:2737:VAL:HG21	1.91	0.50
1:F:2662:SER:HB2	1:F:2833:LEU:HD22	1.93	0.50
1:F:1010:LEU:CG	1:F:1017:ILE:HB	2.42	0.50
1:E:2557:LEU:HD22	1:E:2613:ARG:HB2	1.94	0.50
1:C:2245:VAL:HG13	1:C:2255:ARG:CZ	2.41	0.50
1:B:2334:HIS:HB3	1:B:2391:LYS:HA	1.94	0.50
1:A:2623:ALA:HB2	1:A:2812:LEU:HD21	1.94	0.50
1:A:2582:GLN:HB3	1:F:2554:ALA:HB2	1.94	0.50
1:E:1590:VAL:HG11	1:E:1671:TRP:CD2	2.47	0.50
1:B:207:MET:HA	1:B:249:THR:HG22	1.94	0.50
1:F:1380:ALA:HB1	1:F:1474:LEU:HD12	1.93	0.50
1:A:2811:PHE:HB3	1:A:2894:THR:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2261:LYS:HA	1:D:2265:TRP:HB2	1.94	0.50
1:B:746:TYR:HA	1:B:749:TRP:HD1	1.76	0.50
1:A:405:PRO:HG3	1:A:625:LEU:HG	1.93	0.50
1:D:1178:ASN:HB2	1:D:1185:LEU:HD11	1.94	0.50
1:C:2811:PHE:HB3	1:C:2894:THR:HG22	1.94	0.50
1:B:1317:GLY:H	1:B:1324:VAL:HG12	1.76	0.50
1:E:2118:LEU:O	1:E:2122:ILE:CG1	2.60	0.49
1:C:1010:LEU:CG	1:C:1017:ILE:HB	2.42	0.49
1:F:42:GLU:H	1:F:42:GLU:CD	2.15	0.49
1:F:133:GLN:HG2	1:F:355:GLY:HA2	1.94	0.49
1:D:1087:PHE:HB3	1:E:117:LYS:HZ1	1.76	0.49
1:F:2056:PHE:CZ	1:F:2180:LYS:HE2	2.47	0.49
1:F:2334:HIS:HB3	1:F:2391:LYS:HA	1.94	0.49
1:A:2334:HIS:HB3	1:A:2391:LYS:HA	1.94	0.49
1:B:1711:VAL:HA	1:B:1714:LEU:HG	1.93	0.49
1:C:2790:MET:HG2	1:C:2809:LEU:HD11	1.93	0.49
1:F:2401:ILE:HG23	1:F:2403:ILE:H	1.76	0.49
1:B:780:ARG:HD2	1:B:816:LEU:HB3	1.93	0.49
1:B:745:THR:OG1	1:B:834:GLU:O	2.19	0.49
1:E:1598:GLU:HG2	1:E:1666:ILE:HD13	1.93	0.49
1:B:1178:ASN:HB2	1:B:1185:LEU:HD11	1.94	0.49
1:A:2137:GLU:O	1:A:2163:THR:N	2.30	0.49
1:E:2811:PHE:HB3	1:E:2894:THR:HG22	1.94	0.49
1:F:3080:ARG:NH1	1:F:3080:ARG:CG	2.72	0.49
1:A:2557:LEU:HD22	1:A:2613:ARG:HB2	1.94	0.49
1:D:1590:VAL:HG11	1:D:1671:TRP:CD2	2.47	0.49
1:E:1580:PRO:O	1:E:1583:SER:OG	2.22	0.49
1:C:207:MET:HA	1:C:249:THR:HG22	1.94	0.49
1:C:2056:PHE:CZ	1:C:2180:LYS:HE2	2.47	0.49
1:F:2653:VAL:HA	1:F:3051:MET:HE3	1.92	0.49
1:B:2554:ALA:HB2	1:E:2582:GLN:HB3	1.94	0.49
1:C:2554:ALA:HB2	1:D:2582:GLN:HB3	1.94	0.49
1:E:1119:THR:HA	1:E:1123:PHE:CD1	2.48	0.49
1:B:133:GLN:HG2	1:B:355:GLY:HA2	1.94	0.49
1:F:2811:PHE:HB3	1:F:2894:THR:HG22	1.94	0.49
1:C:1207:VAL:HG13	1:C:1207:VAL:O	2.12	0.49
1:D:2274:LEU:HD23	1:D:2277:ILE:HD12	1.94	0.49
1:D:2137:GLU:O	1:D:2163:THR:N	2.30	0.49
1:E:1012:GLY:C	1:E:1013:THR:HG22	2.32	0.49
1:E:1695:LEU:HD23	1:F:257:ARG:NH1	2.23	0.49
1:B:2731:GLY:O	1:E:2846:ALA:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1711:VAL:HA	1:E:1714:LEU:HG	1.94	0.49
1:D:1711:VAL:HA	1:D:1714:LEU:HG	1.94	0.49
1:F:2361:VAL:HG11	1:F:2398:LEU:HD23	1.93	0.49
1:B:1986:LEU:HA	1:B:1989:PHE:HD2	1.76	0.49
1:D:207:MET:HA	1:D:249:THR:HG22	1.94	0.49
1:A:2361:VAL:HG11	1:A:2398:LEU:HD23	1.93	0.49
1:D:1380:ALA:HB1	1:D:1474:LEU:HD12	1.94	0.49
1:B:1291:LYS:HA	1:B:1344:ALA:HB3	1.95	0.49
1:F:1119:THR:HA	1:F:1123:PHE:CD1	2.48	0.49
1:E:1212:ALA:O	1:E:1342:ARG:NH2	2.45	0.49
1:F:1212:ALA:O	1:F:1342:ARG:NH2	2.45	0.49
1:D:1207:VAL:O	1:D:1207:VAL:HG13	2.12	0.49
1:F:1207:VAL:HG13	1:F:1207:VAL:O	2.12	0.49
1:A:1207:VAL:HG13	1:A:1207:VAL:O	2.12	0.49
1:F:2667:THR:HG21	1:F:3058:ARG:HH11	1.76	0.49
1:D:2790:MET:HG2	1:D:2809:LEU:HD11	1.93	0.49
1:B:1119:THR:HA	1:B:1123:PHE:CD1	2.48	0.49
1:D:2291:LEU:HD21	1:D:2332:LEU:HD22	1.95	0.49
1:C:2417:SER:O	1:C:2421:ASP:N	2.40	0.49
1:B:144:GLY:O	1:B:148:THR:N	2.34	0.49
1:B:2118:LEU:O	1:B:2122:ILE:CG1	2.60	0.49
1:D:1010:LEU:O	1:D:1017:ILE:N	2.29	0.49
1:C:931:VAL:HG13	1:C:933:VAL:HG13	1.92	0.49
1:C:1637:VAL:HG21	1:C:1671:TRP:CD2	2.48	0.49
1:E:133:GLN:HG2	1:E:355:GLY:HA2	1.94	0.49
1:A:505:ARG:HA	1:A:508:GLN:HB2	1.94	0.49
1:D:2056:PHE:CZ	1:D:2180:LYS:HE2	2.47	0.49
1:B:2623:ALA:HB2	1:B:2812:LEU:HD21	1.94	0.49
1:A:2614:LYS:HZ1	1:F:2583:PHE:HD1	1.52	0.49
1:E:2361:VAL:HG11	1:E:2398:LEU:HD23	1.93	0.49
1:D:184:LEU:HB3	1:D:311:TRP:HE3	1.78	0.49
1:C:1119:THR:HA	1:C:1123:PHE:CD1	2.48	0.49
1:F:2274:LEU:HD23	1:F:2277:ILE:HD12	1.94	0.49
1:E:2503:LYS:HE3	1:E:2505:GLU:OE2	2.13	0.49
1:E:405:PRO:HG3	1:E:625:LEU:HG	1.93	0.49
1:E:2274:LEU:HD23	1:E:2277:ILE:HD12	1.94	0.49
1:D:2557:LEU:HD22	1:D:2613:ARG:HB2	1.94	0.49
1:F:1637:VAL:HG21	1:F:1671:TRP:CD2	2.48	0.49
1:B:508:GLN:HA	1:B:540:ASN:HB3	1.92	0.49
1:F:505:ARG:HA	1:F:508:GLN:HB2	1.94	0.49
1:B:2820:ILE:HD12	1:B:2822:LEU:HD21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2748:GLU:HG2	1:F:2753:LYS:HZ2	1.78	0.49
1:A:2180:LYS:HZ1	1:A:2962:ASP:HB3	1.77	0.49
1:C:2667:THR:HG21	1:C:3058:ARG:HH11	1.76	0.49
1:F:745:THR:OG1	1:F:834:GLU:O	2.19	0.49
1:D:1119:THR:HA	1:D:1123:PHE:CD1	2.47	0.49
1:D:2811:PHE:HB3	1:D:2894:THR:HG22	1.94	0.49
1:A:2662:SER:HB2	1:A:2833:LEU:HD22	1.93	0.49
1:B:2503:LYS:HE3	1:B:2505:GLU:OE2	2.13	0.49
1:E:1178:ASN:HB2	1:E:1185:LEU:HD11	1.94	0.49
1:F:2261:LYS:HA	1:F:2265:TRP:HB2	1.94	0.49
1:C:2118:LEU:O	1:C:2122:ILE:CG1	2.60	0.49
1:D:1695:LEU:HD23	1:E:257:ARG:NH1	2.23	0.49
1:D:1533:VAL:HG13	1:D:1582:HIS:HB2	1.95	0.49
1:E:2245:VAL:HG13	1:E:2255:ARG:CZ	2.41	0.49
1:D:656:THR:HG1	1:D:880:HIS:CE1	2.30	0.49
1:C:2623:ALA:HB2	1:C:2812:LEU:HD21	1.94	0.49
1:E:184:LEU:HB3	1:E:311:TRP:HE3	1.78	0.49
1:B:1212:ALA:O	1:B:1342:ARG:NH2	2.45	0.49
1:A:1178:ASN:HB2	1:A:1185:LEU:HD11	1.94	0.49
1:D:305:ILE:HD13	1:D:327:GLU:HG2	1.95	0.49
1:C:1362:MET:HG3	1:C:1430:VAL:HG21	1.95	0.49
1:D:1362:MET:HG3	1:D:1430:VAL:HG21	1.95	0.49
1:D:2552:ASP:N	1:D:2552:ASP:OD1	2.43	0.49
1:B:2418:GLY:O	1:B:2422:GLU:N	2.40	0.49
1:F:1178:ASN:HB2	1:F:1185:LEU:HD11	1.94	0.49
1:A:2118:LEU:O	1:A:2122:ILE:CG1	2.60	0.49
1:E:1331:ILE:HG13	1:E:1336:VAL:HG21	1.94	0.49
1:D:505:ARG:HA	1:D:508:GLN:HB2	1.94	0.49
1:E:207:MET:HA	1:E:249:THR:HG22	1.94	0.49
1:C:1711:VAL:HA	1:C:1714:LEU:HG	1.93	0.49
1:A:1590:VAL:HG11	1:A:1671:TRP:CD2	2.47	0.49
1:F:790:ALA:HB3	1:F:826:LEU:HD21	1.95	0.49
1:D:2140:VAL:HG22	1:D:2165:ILE:HD12	1.93	0.49
1:D:1212:ALA:O	1:D:1342:ARG:NH2	2.45	0.49
1:A:790:ALA:HB3	1:A:826:LEU:HD21	1.95	0.49
1:F:2503:LYS:HE3	1:F:2505:GLU:OE2	2.13	0.49
1:D:2662:SER:HB2	1:D:2833:LEU:HD22	1.93	0.49
1:B:790:ALA:HB3	1:B:826:LEU:HD21	1.95	0.49
1:A:2503:LYS:HE3	1:A:2505:GLU:OE2	2.13	0.49
1:F:176:VAL:O	1:F:180:ALA:N	2.36	0.49
1:B:505:ARG:HA	1:B:508:GLN:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:505:ARG:HA	1:C:508:GLN:HB2	1.94	0.49
1:C:1533:VAL:HG13	1:C:1582:HIS:HB2	1.95	0.49
1:D:2820:ILE:HD12	1:D:2822:LEU:HD21	1.95	0.49
1:C:868:ARG:HB3	1:C:872:ARG:NH1	2.28	0.49
1:B:868:ARG:HB3	1:B:872:ARG:NH1	2.28	0.49
1:E:2829:LEU:HD21	1:E:3014:PHE:HE2	1.76	0.49
1:C:1331:ILE:HG13	1:C:1336:VAL:HG21	1.94	0.49
1:A:1111:PHE:HE1	1:A:1129:LEU:HD11	1.78	0.49
1:F:2820:ILE:HD12	1:F:2822:LEU:HD21	1.95	0.49
1:E:505:ARG:HA	1:E:508:GLN:HB2	1.94	0.49
1:E:2334:HIS:HB3	1:E:2391:LYS:HA	1.94	0.49
1:F:940:ARG:CG	1:F:940:ARG:O	2.60	0.49
1:C:1435:VAL:HG22	1:C:1703:ILE:HD12	1.95	0.49
1:A:2554:ALA:HB2	1:F:2582:GLN:HB3	1.94	0.49
1:E:2623:ALA:HB2	1:E:2812:LEU:HD21	1.94	0.49
1:F:1435:VAL:HG22	1:F:1703:ILE:HD12	1.95	0.49
1:E:1637:VAL:HG21	1:E:1671:TRP:CD2	2.48	0.49
1:A:1362:MET:HG3	1:A:1430:VAL:HG21	1.95	0.49
1:D:133:GLN:HG2	1:D:355:GLY:HA2	1.94	0.49
1:C:2291:LEU:HD21	1:C:2332:LEU:HD22	1.95	0.49
1:C:361:THR:HG21	1:C:377:PRO:HG3	1.95	0.49
1:F:2829:LEU:HD21	1:F:3014:PHE:HE2	1.77	0.49
1:D:2927:GLN:HE22	1:D:2941:PHE:C	2.17	0.49
1:D:361:THR:HG21	1:D:377:PRO:HG3	1.95	0.49
1:C:1133:VAL:O	1:C:1193:ALA:N	2.42	0.49
1:C:2848:GLY:H	1:C:3001:HIS:CD2	2.31	0.48
1:A:2848:GLY:H	1:A:3001:HIS:CD2	2.31	0.48
1:E:2088:ARG:O	1:E:2188:ARG:NH1	2.46	0.48
1:F:1533:VAL:HG13	1:F:1582:HIS:HB2	1.95	0.48
1:C:2820:ILE:HD12	1:C:2822:LEU:HD21	1.95	0.48
1:D:2334:HIS:HB3	1:D:2391:LYS:HA	1.94	0.48
1:C:2334:HIS:HB3	1:C:2391:LYS:HA	1.94	0.48
1:B:1435:VAL:HG22	1:B:1703:ILE:HD12	1.95	0.48
1:F:1986:LEU:HA	1:F:1989:PHE:HD2	1.76	0.48
1:A:184:LEU:HB3	1:A:311:TRP:HE3	1.78	0.48
1:D:444:ILE:HD12	1:D:655:ALA:HA	1.95	0.48
1:D:301:LEU:HD13	1:D:330:LEU:HD22	1.96	0.48
1:C:2261:LYS:HA	1:C:2265:TRP:HB2	1.94	0.48
1:C:2829:LEU:HD21	1:C:3014:PHE:HE2	1.76	0.48
1:E:144:GLY:O	1:E:148:THR:N	2.34	0.48
1:D:790:ALA:HB3	1:D:826:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2829:LEU:HD21	1:A:3014:PHE:HE2	1.77	0.48
1:A:792:ALA:HA	1:A:799:PHE:CE2	2.43	0.48
1:C:2557:LEU:HD22	1:C:2613:ARG:HB2	1.94	0.48
1:B:2845:PHE:CE1	1:E:2676:SER:HB2	2.49	0.48
1:B:2848:GLY:H	1:B:3001:HIS:CD2	2.31	0.48
1:C:2676:SER:HB2	1:D:2845:PHE:CE1	2.49	0.48
1:A:133:GLN:HG2	1:A:355:GLY:HA2	1.94	0.48
1:A:868:ARG:HB3	1:A:872:ARG:NH1	2.28	0.48
1:A:2554:ALA:HB1	1:A:2614:LYS:HD2	1.95	0.48
1:F:1651:THR:HB	1:F:1656:LYS:HD2	1.95	0.48
1:A:1637:VAL:HG21	1:A:1671:TRP:CD2	2.48	0.48
1:F:1291:LYS:HA	1:F:1344:ALA:HB3	1.95	0.48
1:D:1133:VAL:O	1:D:1193:ALA:N	2.42	0.48
1:B:444:ILE:HD12	1:B:655:ALA:HA	1.95	0.48
1:C:2736:PRO:HG2	1:C:2746:SER:HA	1.96	0.48
1:B:1996:PRO:O	1:B:2000:LEU:N	2.41	0.48
1:D:3065:PRO:O	1:D:3069:GLN:N	2.43	0.48
1:A:2274:LEU:HD23	1:A:2277:ILE:HD12	1.94	0.48
1:E:790:ALA:HB3	1:E:826:LEU:HD21	1.95	0.48
1:C:1212:ALA:O	1:C:1342:ARG:NH2	2.45	0.48
1:E:2094:HIS:O	1:E:2098:THR:HG22	2.14	0.48
1:E:2098:THR:O	1:E:2102:TRP:CG	2.67	0.48
1:F:2118:LEU:O	1:F:2122:ILE:CG1	2.61	0.48
1:E:1010:LEU:CG	1:E:1017:ILE:HB	2.42	0.48
1:C:1634:ARG:HH11	1:C:1639:ALA:N	2.08	0.48
1:D:2088:ARG:O	1:D:2188:ARG:NH1	2.47	0.48
1:B:2088:ARG:O	1:B:2188:ARG:NH1	2.47	0.48
1:E:1111:PHE:HE1	1:E:1129:LEU:HD11	1.78	0.48
1:B:2056:PHE:CZ	1:B:2180:LYS:HE2	2.47	0.48
1:D:868:ARG:HB3	1:D:872:ARG:NH1	2.28	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:E:2554:ALA:HB1	1:E:2614:LYS:HD2	1.95	0.48
1:F:2554:ALA:HB1	1:F:2614:LYS:HD2	1.95	0.48
1:A:1119:THR:HA	1:A:1123:PHE:CD1	2.47	0.48
1:F:2170:ARG:HB2	1:F:2175:ARG:HG3	1.96	0.48
1:B:2167:THR:HB	1:B:2198:ALA:HB3	1.95	0.48
1:D:2170:ARG:HB2	1:D:2175:ARG:HG3	1.95	0.48
1:F:305:ILE:HD13	1:F:327:GLU:HG2	1.95	0.48
1:F:2167:THR:HB	1:F:2198:ALA:HB3	1.96	0.48
1:E:2666:PRO:CB	1:E:2727:VAL:HA	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2503:LYS:HE3	1:C:2505:GLU:OE2	2.13	0.48
1:F:444:ILE:HD12	1:F:655:ALA:HA	1.95	0.48
1:C:184:LEU:HB3	1:C:311:TRP:HE3	1.78	0.48
1:D:1012:GLY:C	1:D:1013:THR:HG22	2.32	0.48
1:A:2094:HIS:O	1:A:2098:THR:HG22	2.13	0.48
1:D:257:ARG:NH1	1:F:1695:LEU:HD23	2.23	0.48
1:A:2676:SER:HB2	1:F:2845:PHE:CE1	2.49	0.48
1:F:1111:PHE:HE1	1:F:1129:LEU:HD11	1.78	0.48
1:F:2762:VAL:HG22	1:F:2822:LEU:HB2	1.96	0.48
1:F:1711:VAL:HA	1:F:1714:LEU:HG	1.94	0.48
1:E:1625:LEU:HD11	1:E:1660:LEU:HB3	1.96	0.48
1:F:2926:SER:HB3	1:F:2976:TRP:HH2	1.79	0.48
1:D:2736:PRO:HG2	1:D:2746:SER:HA	1.96	0.48
1:A:2058:ASP:OD1	1:A:2058:ASP:N	2.46	0.48
1:E:2291:LEU:HD21	1:E:2332:LEU:HD22	1.95	0.48
1:A:305:ILE:HD13	1:A:327:GLU:HG2	1.95	0.48
1:B:1103:VAL:HG21	1:B:1269:MET:SD	2.54	0.48
1:E:1996:PRO:O	1:E:2000:LEU:N	2.41	0.48
1:F:2094:HIS:O	1:F:2098:THR:HG22	2.14	0.48
1:D:2118:LEU:O	1:D:2122:ILE:CG1	2.60	0.48
1:C:940:ARG:CG	1:C:940:ARG:O	2.60	0.48
1:D:1651:THR:HB	1:D:1656:LYS:HD2	1.95	0.48
1:A:207:MET:HA	1:A:249:THR:HG22	1.94	0.48
1:B:2582:GLN:HB3	1:E:2554:ALA:HB2	1.94	0.48
1:B:1637:VAL:HG21	1:B:1671:TRP:CD2	2.48	0.48
1:A:444:ILE:HD12	1:A:655:ALA:HA	1.95	0.48
1:B:2274:LEU:HD23	1:B:2277:ILE:HD12	1.94	0.48
1:E:1103:VAL:HG21	1:E:1269:MET:SD	2.54	0.48
1:E:1362:MET:HG3	1:E:1430:VAL:HG21	1.95	0.48
1:D:2503:LYS:HE3	1:D:2505:GLU:OE2	2.13	0.48
1:F:361:THR:HG21	1:F:377:PRO:HG3	1.95	0.48
1:E:2592:PRO:HA	1:E:2599:TRP:CD1	2.49	0.48
1:B:2666:PRO:CB	1:B:2727:VAL:HA	2.44	0.48
1:C:2098:THR:O	1:C:2102:TRP:CG	2.67	0.48
1:B:2098:THR:O	1:B:2102:TRP:CG	2.67	0.48
1:E:2645:ASP:OD1	1:E:2647:VAL:HG23	2.14	0.48
1:F:2557:LEU:HD22	1:F:2613:ARG:HB2	1.94	0.48
1:F:1508:ILE:HB	1:F:1562:ARG:HD3	1.96	0.48
1:A:2088:ARG:O	1:A:2188:ARG:NH1	2.47	0.48
1:A:2762:VAL:HG22	1:A:2822:LEU:HB2	1.96	0.48
1:A:2667:THR:HB	1:A:3081:LEU:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:868:ARG:HB3	1:E:872:ARG:NH1	2.28	0.48
1:A:1625:LEU:HD11	1:A:1660:LEU:HB3	1.96	0.48
1:B:2554:ALA:HB1	1:B:2614:LYS:HD2	1.96	0.48
1:E:2926:SER:HB3	1:E:2976:TRP:HH2	1.79	0.48
1:D:184:LEU:HD13	1:D:311:TRP:HB3	1.96	0.48
1:D:1996:PRO:O	1:D:2000:LEU:N	2.41	0.48
1:D:2167:THR:HB	1:D:2198:ALA:HB3	1.96	0.48
1:B:1533:VAL:HG13	1:B:1582:HIS:HB2	1.95	0.48
1:E:2060:TRP:HZ2	1:E:2966:ASP:HA	1.79	0.48
1:F:2666:PRO:CB	1:F:2727:VAL:HA	2.44	0.48
1:B:2811:PHE:HB3	1:B:2894:THR:HG22	1.94	0.48
1:A:2261:LYS:HA	1:A:2265:TRP:HB2	1.94	0.48
1:D:2645:ASP:OD1	1:D:2647:VAL:HG23	2.14	0.48
1:D:1634:ARG:HH11	1:D:1639:ALA:N	2.08	0.48
1:D:1637:VAL:HG21	1:D:1671:TRP:CD2	2.48	0.48
1:C:2088:ARG:O	1:C:2188:ARG:NH1	2.47	0.48
1:F:2180:LYS:NZ	1:F:2962:ASP:HB3	2.29	0.48
1:D:2180:LYS:NZ	1:D:2962:ASP:HB3	2.29	0.48
1:D:2623:ALA:HB2	1:D:2812:LEU:HD21	1.94	0.48
1:D:1435:VAL:HG22	1:D:1703:ILE:HD12	1.95	0.48
1:A:2648:ALA:HA	1:A:2718:VAL:HG13	1.96	0.48
1:B:501:VAL:HA	1:B:504:LYS:HE2	1.96	0.48
1:A:2926:SER:HB3	1:A:2976:TRP:HH2	1.79	0.48
1:B:2926:SER:HB3	1:B:2976:TRP:HH2	1.79	0.48
1:A:184:LEU:HD13	1:A:311:TRP:HB3	1.96	0.48
1:C:184:LEU:HD13	1:C:311:TRP:HB3	1.96	0.48
1:C:444:ILE:HD12	1:C:655:ALA:HA	1.95	0.48
1:C:2927:GLN:HE22	1:C:2941:PHE:C	2.17	0.48
1:B:2170:ARG:HB2	1:B:2175:ARG:HG3	1.96	0.48
1:D:2094:HIS:O	1:D:2098:THR:HG22	2.13	0.48
1:B:2557:LEU:HD22	1:B:2613:ARG:HB2	1.94	0.48
1:C:2845:PHE:CE1	1:D:2676:SER:HB2	2.49	0.48
1:E:2848:GLY:H	1:E:3001:HIS:CD2	2.32	0.48
1:B:1508:ILE:HB	1:B:1562:ARG:HD3	1.96	0.48
1:B:2762:VAL:HG22	1:B:2822:LEU:HB2	1.96	0.48
1:E:2667:THR:HB	1:E:3081:LEU:HD11	1.96	0.48
1:B:836:VAL:HG12	1:B:837:VAL:N	2.29	0.48
1:D:1625:LEU:HD11	1:D:1660:LEU:HB3	1.96	0.48
1:B:2614:LYS:NZ	1:E:2583:PHE:HB2	2.29	0.48
1:F:501:VAL:HA	1:F:504:LYS:HE2	1.96	0.48
1:E:2648:ALA:HA	1:E:2718:VAL:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1291:LYS:HA	1:E:1344:ALA:HB3	1.95	0.48
1:F:184:LEU:HB3	1:F:311:TRP:HE3	1.78	0.48
1:B:1362:MET:HG3	1:B:1430:VAL:HG21	1.95	0.48
1:B:361:THR:HG21	1:B:377:PRO:HG3	1.95	0.48
1:D:1467:VAL:HA	1:D:1605:LYS:HD2	1.96	0.48
1:E:2927:GLN:HE22	1:E:2941:PHE:C	2.17	0.48
1:A:1212:ALA:O	1:A:1342:ARG:NH2	2.45	0.48
1:A:2167:THR:HB	1:A:2198:ALA:HB3	1.96	0.48
1:C:1103:VAL:HG21	1:C:1269:MET:SD	2.54	0.48
1:A:2170:ARG:HB2	1:A:2175:ARG:HG3	1.96	0.48
1:F:2736:PRO:HG2	1:F:2746:SER:HA	1.96	0.48
1:A:301:LEU:HD13	1:A:330:LEU:HD22	1.96	0.48
1:A:2098:THR:O	1:A:2102:TRP:CG	2.67	0.48
1:B:2645:ASP:OD1	1:B:2647:VAL:HG23	2.14	0.48
1:F:2848:GLY:H	1:F:3001:HIS:CD2	2.31	0.48
1:E:1533:VAL:HG13	1:E:1582:HIS:HB2	1.95	0.48
1:E:803:GLU:OE1	1:E:2431:THR:CG2	2.62	0.48
1:C:836:VAL:HG12	1:C:837:VAL:N	2.29	0.48
1:A:836:VAL:HG12	1:A:837:VAL:N	2.29	0.48
1:C:501:VAL:HA	1:C:504:LYS:HE2	1.96	0.48
1:E:2891:LYS:HZ1	1:E:2903:GLU:HB3	1.78	0.48
1:B:2583:PHE:HB2	1:E:2614:LYS:NZ	2.29	0.48
1:A:501:VAL:HA	1:A:504:LYS:HE2	1.96	0.48
1:A:1533:VAL:HG13	1:A:1582:HIS:HB2	1.95	0.48
1:C:305:ILE:HD13	1:C:327:GLU:HG2	1.95	0.48
1:B:2291:LEU:HD21	1:B:2332:LEU:HD22	1.95	0.48
1:D:2592:PRO:HA	1:D:2599:TRP:CD1	2.49	0.48
1:D:1103:VAL:HG21	1:D:1269:MET:SD	2.54	0.48
1:A:1012:GLY:C	1:A:1013:THR:HG22	2.32	0.48
1:F:1012:GLY:C	1:F:1013:THR:HG22	2.32	0.48
1:C:133:GLN:HG2	1:C:355:GLY:HA2	1.94	0.48
1:F:2088:ARG:O	1:F:2188:ARG:NH1	2.47	0.48
1:C:832:ASP:O	1:C:836:VAL:HG23	2.14	0.48
1:C:670:GLY:HA3	1:C:899:ALA:HB2	1.96	0.48
1:A:2614:LYS:NZ	1:F:2583:PHE:HB2	2.29	0.48
1:C:2926:SER:HB3	1:C:2976:TRP:HH2	1.79	0.48
1:D:1291:LYS:HA	1:D:1344:ALA:HB3	1.95	0.48
1:C:2170:ARG:HB2	1:C:2175:ARG:HG3	1.96	0.48
1:A:2666:PRO:CB	1:A:2727:VAL:HA	2.44	0.48
1:F:2592:PRO:HA	1:F:2599:TRP:CD1	2.49	0.48
1:B:171:LYS:HE3	1:B:173:ALA:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:301:LEU:HD13	1:E:330:LEU:HD22	1.96	0.48
1:C:2843:GLN:HG2	1:C:2845:PHE:CZ	2.49	0.47
1:E:2843:GLN:HG2	1:E:2845:PHE:CZ	2.49	0.47
1:D:2848:GLY:H	1:D:3001:HIS:CD2	2.31	0.47
1:A:2056:PHE:CZ	1:A:2180:LYS:HE2	2.47	0.47
1:F:2667:THR:HB	1:F:3081:LEU:HD11	1.96	0.47
1:C:1291:LYS:HA	1:C:1344:ALA:HB3	1.95	0.47
1:B:641:ASP:OD1	1:B:641:ASP:N	2.47	0.47
1:A:365:ALA:HB3	1:A:366:PRO:HD3	1.96	0.47
1:C:171:LYS:HE3	1:C:173:ALA:HB3	1.96	0.47
1:C:1178:ASN:HB2	1:C:1185:LEU:HD11	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:F:1996:PRO:O	1:F:2000:LEU:N	2.41	0.47
1:C:2000:LEU:HD12	1:F:2000:LEU:HD12	1.96	0.47
1:A:1467:VAL:HA	1:A:1605:LYS:HD2	1.96	0.47
1:E:361:THR:HG21	1:E:377:PRO:HG3	1.95	0.47
1:F:808:ALA:HB3	1:F:811:ASP:HB2	1.96	0.47
1:B:1467:VAL:HA	1:B:1605:LYS:HD2	1.96	0.47
1:D:3080:ARG:NH1	1:D:3080:ARG:HG3	2.09	0.47
1:C:2645:ASP:OD1	1:C:2647:VAL:HG23	2.13	0.47
1:B:2884:ASP:HA	1:B:2916:ARG:NH1	2.30	0.47
1:B:936:ARG:O	1:B:941:ARG:N	2.44	0.47
1:A:2843:GLN:HG2	1:A:2845:PHE:CZ	2.49	0.47
1:B:2728:GLY:HA2	1:E:2848:GLY:HA2	1.97	0.47
1:D:1111:PHE:HE1	1:D:1129:LEU:HD11	1.78	0.47
1:F:1590:VAL:HG11	1:F:1671:TRP:CE2	2.49	0.47
1:E:2762:VAL:HG22	1:E:2822:LEU:HB2	1.96	0.47
1:E:2820:ILE:HD12	1:E:2822:LEU:HD21	1.95	0.47
1:C:585:HIS:HD2	1:C:586:SER:H	1.62	0.47
1:F:2623:ALA:HB2	1:F:2812:LEU:HD21	1.94	0.47
1:D:2461:VAL:HG21	1:D:2751:VAL:HG13	1.96	0.47
1:E:832:ASP:O	1:E:836:VAL:HG23	2.14	0.47
1:F:868:ARG:HB3	1:F:872:ARG:NH1	2.28	0.47
1:E:1435:VAL:HG22	1:E:1703:ILE:HD12	1.95	0.47
1:C:2614:LYS:HG3	1:D:2583:PHE:HB2	1.97	0.47
1:C:2614:LYS:NZ	1:D:2583:PHE:HB2	2.29	0.47
1:F:2352:ILE:HG12	1:F:2412:ALA:HB1	1.96	0.47
1:D:2666:PRO:CB	1:D:2727:VAL:HA	2.44	0.47
1:C:808:ALA:HB3	1:C:811:ASP:HB2	1.96	0.47
1:E:305:ILE:HD13	1:E:327:GLU:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:782:ARG:HD3	1:A:853:LEU:HD22	1.96	0.47
1:A:2348:GLN:O	1:A:2416:MET:HG3	2.15	0.47
1:E:171:LYS:HE3	1:E:173:ALA:HB3	1.96	0.47
1:E:365:ALA:HB3	1:E:366:PRO:HD3	1.97	0.47
1:B:184:LEU:HB3	1:B:311:TRP:HE3	1.78	0.47
1:C:301:LEU:HD13	1:C:330:LEU:HD22	1.96	0.47
1:A:2927:GLN:HE22	1:A:2941:PHE:C	2.17	0.47
1:D:2098:THR:O	1:D:2102:TRP:CG	2.67	0.47
1:B:2094:HIS:O	1:B:2098:THR:HG22	2.13	0.47
1:A:2730:TYR:HH	1:A:3059:ARG:NH1	2.12	0.47
1:A:2845:PHE:CE1	1:F:2676:SER:HB2	2.49	0.47
1:D:2843:GLN:HG2	1:D:2845:PHE:CZ	2.49	0.47
1:A:683:GLY:CA	1:A:700:ASN:HB2	2.44	0.47
1:B:803:GLU:OE1	1:B:2431:THR:CG2	2.62	0.47
1:B:647:THR:HG22	1:B:901:ILE:HD11	1.96	0.47
1:A:2180:LYS:NZ	1:A:2962:ASP:HB3	2.29	0.47
1:C:2667:THR:HB	1:C:3081:LEU:HD11	1.95	0.47
1:F:832:ASP:O	1:F:836:VAL:HG23	2.14	0.47
1:B:1651:THR:HB	1:B:1656:LYS:HD2	1.95	0.47
1:B:1590:VAL:HG11	1:B:1671:TRP:CE2	2.49	0.47
1:D:641:ASP:N	1:D:641:ASP:OD1	2.47	0.47
1:C:2210:VAL:HB	1:C:2277:ILE:HD11	1.97	0.47
1:E:674:TRP:CD1	1:E:895:THR:HG21	2.50	0.47
1:A:361:THR:HG21	1:A:377:PRO:HG3	1.95	0.47
1:B:1276:GLN:HE21	1:B:1292:LEU:HD13	1.79	0.47
1:E:2170:ARG:HB2	1:E:2175:ARG:HG3	1.95	0.47
1:D:2376:LEU:HD22	1:D:2392:VAL:HG21	1.96	0.47
1:C:790:ALA:HB3	1:C:826:LEU:HD21	1.95	0.47
1:E:2736:PRO:HG2	1:E:2746:SER:HA	1.96	0.47
1:F:674:TRP:CD1	1:F:895:THR:HG21	2.50	0.47
1:B:305:ILE:HD13	1:B:327:GLU:HG2	1.95	0.47
1:F:1362:MET:HG3	1:F:1430:VAL:HG21	1.95	0.47
1:C:2094:HIS:O	1:C:2098:THR:HG22	2.13	0.47
1:D:997:GLU:HB3	1:D:1009:PRO:CG	2.44	0.47
1:E:683:GLY:CA	1:E:700:ASN:HB2	2.44	0.47
1:D:2252:VAL:HG22	1:D:2255:ARG:NH2	2.30	0.47
1:D:2667:THR:HB	1:D:3081:LEU:HD11	1.96	0.47
1:C:2180:LYS:NZ	1:C:2962:ASP:HB3	2.29	0.47
1:E:670:GLY:HA3	1:E:899:ALA:HB2	1.96	0.47
1:F:670:GLY:HA3	1:F:899:ALA:HB2	1.96	0.47
1:B:2648:ALA:HA	1:B:2718:VAL:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1651:THR:HB	1:A:1656:LYS:HD2	1.96	0.47
1:E:1651:THR:HB	1:E:1656:LYS:HD2	1.95	0.47
1:A:1291:LYS:HA	1:A:1344:ALA:HB3	1.95	0.47
1:B:674:TRP:CD1	1:B:895:THR:HG21	2.49	0.47
1:A:171:LYS:HE3	1:A:173:ALA:HB3	1.96	0.47
1:D:782:ARG:HD3	1:D:853:LEU:HD22	1.96	0.47
1:C:2167:THR:HB	1:C:2198:ALA:HB3	1.96	0.47
1:A:606:ASN:HD22	1:A:606:ASN:H	1.62	0.47
1:C:1467:VAL:HA	1:C:1605:LYS:HD2	1.96	0.47
1:E:808:ALA:HB3	1:E:811:ASP:HB2	1.96	0.47
1:F:2291:LEU:HD21	1:F:2332:LEU:HD22	1.95	0.47
1:D:2060:TRP:HZ2	1:D:2966:ASP:HA	1.79	0.47
1:F:966:PRO:O	1:F:970:ILE:N	2.48	0.47
1:C:2728:GLY:HA2	1:D:2848:GLY:HA2	1.97	0.47
1:C:997:GLU:HB3	1:C:1009:PRO:CG	2.45	0.47
1:A:2820:ILE:HD12	1:A:2822:LEU:HD21	1.95	0.47
1:C:803:GLU:OE1	1:C:2431:THR:CG2	2.62	0.47
1:A:647:THR:HG22	1:A:901:ILE:HD11	1.96	0.47
1:A:2583:PHE:HB2	1:F:2614:LYS:NZ	2.29	0.47
1:E:1590:VAL:HG11	1:E:1671:TRP:CE2	2.50	0.47
1:D:2210:VAL:HB	1:D:2277:ILE:HD11	1.96	0.47
1:C:141:ALA:O	1:C:145:MET:HB2	2.14	0.47
1:B:2376:LEU:HD22	1:B:2392:VAL:HG21	1.97	0.47
1:E:782:ARG:HD3	1:E:853:LEU:HD22	1.97	0.47
1:B:2927:GLN:HE22	1:B:2941:PHE:C	2.17	0.47
1:F:2060:TRP:HZ2	1:F:2966:ASP:HA	1.79	0.47
1:F:1455:VAL:HB	1:F:1480:ARG:HH12	1.80	0.47
1:A:1276:GLN:HE21	1:A:1292:LEU:HD13	1.79	0.47
1:D:2989:LEU:HA	1:D:2989:LEU:HD12	1.77	0.47
1:E:606:ASN:H	1:E:606:ASN:HD22	1.63	0.47
1:E:444:ILE:HD12	1:E:655:ALA:HA	1.95	0.47
1:C:1455:VAL:HB	1:C:1480:ARG:HH12	1.80	0.47
1:E:2681:THR:O	1:E:2764:ALA:HA	2.15	0.47
1:F:171:LYS:HE3	1:F:173:ALA:HB3	1.96	0.47
1:F:1103:VAL:HG21	1:F:1269:MET:SD	2.54	0.47
1:E:1276:GLN:HE21	1:E:1292:LEU:HD13	1.79	0.47
1:F:2927:GLN:HE22	1:F:2941:PHE:C	2.17	0.47
1:F:2681:THR:O	1:F:2764:ALA:HA	2.15	0.47
1:F:2843:GLN:HG2	1:F:2845:PHE:CZ	2.49	0.47
1:A:2884:ASP:HA	1:A:2916:ARG:NH1	2.29	0.47
1:C:2884:ASP:HA	1:C:2916:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2676:SER:HB2	1:E:2845:PHE:CE1	2.49	0.47
1:B:997:GLU:HB3	1:B:1009:PRO:CG	2.44	0.47
1:F:997:GLU:HB3	1:F:1009:PRO:CG	2.44	0.47
1:A:803:GLU:OE1	1:A:2431:THR:CG2	2.62	0.47
1:E:647:THR:HG22	1:E:901:ILE:HD11	1.96	0.47
1:E:2180:LYS:NZ	1:E:2962:ASP:HB3	2.29	0.47
1:D:803:GLU:OE1	1:D:2431:THR:CG2	2.62	0.47
1:D:2648:ALA:HA	1:D:2718:VAL:HG13	1.96	0.47
1:A:2461:VAL:HG21	1:A:2751:VAL:HG13	1.96	0.47
1:A:713:ALA:O	1:A:868:ARG:NH2	2.48	0.47
1:C:2583:PHE:HB2	1:D:2614:LYS:HG3	1.97	0.47
1:C:976:TRP:O	1:C:976:TRP:CG	2.68	0.47
1:F:2210:VAL:HB	1:F:2277:ILE:HD11	1.96	0.47
1:F:184:LEU:HD13	1:F:311:TRP:HB3	1.96	0.47
1:A:1103:VAL:HG21	1:A:1269:MET:SD	2.54	0.47
1:C:674:TRP:CD1	1:C:895:THR:HG21	2.50	0.47
1:D:674:TRP:CD1	1:D:895:THR:HG21	2.49	0.47
1:C:3065:PRO:O	1:C:3069:GLN:N	2.42	0.47
1:C:2666:PRO:CB	1:C:2727:VAL:HA	2.44	0.47
1:C:2773:GLU:HA	1:C:2776:ILE:HG22	1.97	0.47
1:C:2060:TRP:HZ2	1:C:2966:ASP:HA	1.79	0.47
1:B:301:LEU:HD13	1:B:330:LEU:HD22	1.96	0.47
1:B:2352:ILE:HG12	1:B:2412:ALA:HB1	1.96	0.47
1:F:2098:THR:O	1:F:2102:TRP:CG	2.67	0.47
1:A:2645:ASP:OD1	1:A:2647:VAL:HG23	2.14	0.47
1:B:1072:TRP:HE1	1:B:1077:VAL:HG22	1.80	0.47
1:A:1695:LEU:HD12	1:A:1695:LEU:HA	1.71	0.47
1:F:2770:LEU:HB3	1:F:2815:GLN:HB3	1.97	0.47
1:C:2848:GLY:HA2	1:D:2728:GLY:HA2	1.97	0.47
1:C:936:ARG:O	1:C:941:ARG:N	2.44	0.47
1:E:1634:ARG:NH1	1:E:1639:ALA:H	2.11	0.47
1:D:1590:VAL:HG11	1:D:1671:TRP:CE2	2.50	0.47
1:C:1111:PHE:HE1	1:C:1129:LEU:HD11	1.78	0.47
1:B:1111:PHE:HE1	1:B:1129:LEU:HD11	1.78	0.47
1:A:997:GLU:HB3	1:A:1009:PRO:CG	2.44	0.47
1:F:683:GLY:CA	1:F:700:ASN:HB2	2.44	0.47
1:C:2252:VAL:HG22	1:C:2255:ARG:NH2	2.30	0.47
1:A:940:ARG:O	1:A:940:ARG:CG	2.60	0.47
1:D:940:ARG:O	1:D:940:ARG:CG	2.60	0.47
1:F:2252:VAL:HG22	1:F:2255:ARG:NH2	2.30	0.47
1:D:501:VAL:HA	1:D:504:LYS:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:647:THR:HG22	1:D:901:ILE:HD11	1.96	0.47
1:D:713:ALA:O	1:D:868:ARG:NH2	2.48	0.47
1:B:832:ASP:O	1:B:836:VAL:HG23	2.14	0.47
1:D:832:ASP:O	1:D:836:VAL:HG23	2.14	0.47
1:A:832:ASP:O	1:A:836:VAL:HG23	2.14	0.47
1:F:713:ALA:O	1:F:868:ARG:NH2	2.48	0.47
1:C:2583:PHE:HB2	1:D:2614:LYS:NZ	2.29	0.47
1:C:2554:ALA:HB1	1:C:2614:LYS:HD2	1.95	0.47
1:F:976:TRP:CG	1:F:976:TRP:O	2.68	0.47
1:C:641:ASP:OD1	1:C:641:ASP:N	2.47	0.47
1:E:184:LEU:HD13	1:E:311:TRP:HB3	1.96	0.47
1:A:1996:PRO:O	1:A:2000:LEU:N	2.41	0.47
1:B:184:LEU:HD13	1:B:311:TRP:HB3	1.96	0.47
1:C:1699:ARG:HG3	1:C:1730:GLU:HB3	1.97	0.47
1:F:141:ALA:O	1:F:145:MET:HB2	2.15	0.47
1:D:2348:GLN:O	1:D:2416:MET:HG3	2.15	0.47
1:B:2736:PRO:HG2	1:B:2746:SER:HA	1.96	0.47
1:A:2592:PRO:HA	1:A:2599:TRP:CD1	2.49	0.47
1:C:365:ALA:HB3	1:C:366:PRO:HD3	1.96	0.47
1:C:2592:PRO:HA	1:C:2599:TRP:CD1	2.49	0.47
1:F:1467:VAL:HA	1:F:1605:LYS:HD2	1.96	0.47
1:B:782:ARG:HD3	1:B:853:LEU:HD22	1.97	0.47
1:C:2352:ILE:HG12	1:C:2412:ALA:HB1	1.96	0.47
1:A:2291:LEU:HD21	1:A:2332:LEU:HD22	1.95	0.47
1:D:210:VAL:HG22	1:D:287:PHE:CD1	2.50	0.47
1:A:808:ALA:HB3	1:A:811:ASP:HB2	1.96	0.47
1:E:778:THR:HG21	1:E:854:GLY:HA3	1.97	0.47
1:D:1276:GLN:HE21	1:D:1292:LEU:HD13	1.79	0.47
1:B:778:THR:HG21	1:B:854:GLY:HA3	1.97	0.47
1:A:141:ALA:O	1:A:145:MET:HB2	2.15	0.47
1:C:2418:GLY:O	1:C:2422:GLU:N	2.40	0.47
1:E:2096:VAL:HG13	1:E:2097:ALA:H	1.80	0.47
1:E:966:PRO:O	1:E:970:ILE:N	2.48	0.47
1:D:996:LEU:HA	1:D:1010:LEU:HA	1.97	0.47
1:C:1072:TRP:HE1	1:C:1077:VAL:HG22	1.80	0.47
1:F:518:ASP:HA	1:F:543:GLY:O	2.15	0.47
1:B:2252:VAL:HG22	1:B:2255:ARG:NH2	2.30	0.47
1:F:2648:ALA:HA	1:F:2718:VAL:HG13	1.96	0.47
1:B:2614:LYS:HG3	1:E:2583:PHE:HB2	1.97	0.47
1:E:836:VAL:HG12	1:E:837:VAL:N	2.29	0.47
1:D:2554:ALA:HB1	1:D:2614:LYS:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:745:THR:HG22	1:C:747:LEU:H	1.80	0.47
1:C:602:ARG:NH2	1:C:641:ASP:OD1	2.27	0.47
1:A:641:ASP:N	1:A:641:ASP:OD1	2.48	0.47
1:B:365:ALA:O	1:B:369:ARG:N	2.42	0.47
1:F:782:ARG:HD3	1:F:853:LEU:HD22	1.97	0.47
1:F:301:LEU:HD13	1:F:330:LEU:HD22	1.96	0.47
1:C:2989:LEU:HA	1:C:2989:LEU:HD12	1.77	0.47
1:D:606:ASN:HD22	1:D:606:ASN:H	1.62	0.47
1:D:171:LYS:HE3	1:D:173:ALA:HB3	1.96	0.47
1:B:210:VAL:HG22	1:B:287:PHE:CD1	2.50	0.47
1:D:2681:THR:O	1:D:2764:ALA:HA	2.15	0.47
1:E:1699:ARG:HG3	1:E:1730:GLU:HB3	1.97	0.47
1:C:210:VAL:HG22	1:C:287:PHE:CD1	2.50	0.47
1:B:966:PRO:O	1:B:970:ILE:N	2.48	0.47
1:D:3080:ARG:NH1	1:D:3080:ARG:CG	2.72	0.47
1:F:2645:ASP:OD1	1:F:2647:VAL:HG23	2.13	0.47
1:D:1508:ILE:HB	1:D:1562:ARG:HD3	1.97	0.47
1:C:1590:VAL:HG11	1:C:1671:TRP:CE2	2.50	0.47
1:B:1625:LEU:HD11	1:B:1660:LEU:HB3	1.95	0.47
1:A:1435:VAL:HG22	1:A:1703:ILE:HD12	1.95	0.47
1:F:1625:LEU:HD11	1:F:1660:LEU:HB3	1.96	0.47
1:A:2482:GLU:HG2	1:A:2956:PRO:HB3	1.97	0.47
1:A:745:THR:HG22	1:A:747:LEU:H	1.80	0.47
1:E:1455:VAL:HB	1:E:1480:ARG:HH12	1.80	0.47
1:E:2348:GLN:O	1:E:2416:MET:HG3	2.15	0.47
1:E:210:VAL:HG22	1:E:287:PHE:CD1	2.50	0.47
1:F:2348:GLN:O	1:F:2416:MET:HG3	2.15	0.47
1:E:2167:THR:HB	1:E:2198:ALA:HB3	1.96	0.47
1:B:2681:THR:O	1:B:2764:ALA:HA	2.15	0.47
1:A:2060:TRP:HZ2	1:A:2966:ASP:HA	1.79	0.47
1:F:210:VAL:HG22	1:F:287:PHE:CD1	2.50	0.47
1:E:141:ALA:O	1:E:145:MET:HB2	2.15	0.47
1:E:1467:VAL:HA	1:E:1605:LYS:HD2	1.96	0.47
1:A:674:TRP:CD1	1:A:895:THR:HG21	2.50	0.47
1:B:2058:ASP:N	1:B:2058:ASP:OD1	2.46	0.47
1:E:996:LEU:HA	1:E:1010:LEU:HA	1.98	0.47
1:D:966:PRO:O	1:D:970:ILE:N	2.48	0.47
1:D:2773:GLU:HA	1:D:2776:ILE:HG22	1.97	0.47
1:D:1072:TRP:HE1	1:D:1077:VAL:HG22	1.80	0.47
1:F:1072:TRP:HE1	1:F:1077:VAL:HG22	1.80	0.47
1:F:2884:ASP:HA	1:F:2916:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:997:GLU:HB3	1:E:1009:PRO:CG	2.45	0.47
1:A:198:ILE:HG12	1:C:1087:PHE:CE1	2.50	0.47
1:B:647:THR:OG1	2:B:4000:FMN:O3P	2.27	0.47
1:F:2800:PHE:CE1	1:F:2812:LEU:HD22	2.50	0.47
1:D:670:GLY:HA3	1:D:899:ALA:HB2	1.96	0.47
1:B:2785:ALA:HB1	1:B:2809:LEU:HG	1.97	0.47
1:C:2648:ALA:HA	1:C:2718:VAL:HG13	1.96	0.47
1:D:2926:SER:HB3	1:D:2976:TRP:HH2	1.79	0.47
1:A:1699:ARG:HG3	1:A:1730:GLU:HB3	1.97	0.47
1:F:1276:GLN:HE21	1:F:1292:LEU:HD13	1.79	0.47
1:F:2630:ASP:HB3	1:F:2633:VAL:HG23	1.97	0.47
1:B:2060:TRP:HZ2	1:B:2966:ASP:HA	1.79	0.47
1:B:141:ALA:O	1:B:145:MET:HB2	2.15	0.47
1:B:931:VAL:HG13	1:B:934:LEU:N	2.21	0.46
1:A:1508:ILE:HB	1:A:1562:ARG:HD3	1.97	0.46
1:F:540:ASN:ND2	1:F:544:ILE:HG13	2.30	0.46
1:D:1087:PHE:CE1	1:E:198:ILE:HG12	2.51	0.46
1:D:2762:VAL:HG22	1:D:2822:LEU:HB2	1.96	0.46
1:E:2252:VAL:HG22	1:E:2255:ARG:NH2	2.30	0.46
1:C:647:THR:HG22	1:C:901:ILE:HD11	1.96	0.46
1:D:1723:GLU:C	1:D:1725:SER:H	2.18	0.46
1:B:2667:THR:HB	1:B:3081:LEU:HD11	1.96	0.46
1:F:2785:ALA:HB1	1:F:2809:LEU:HG	1.97	0.46
1:E:2961:LEU:HD22	1:E:2976:TRP:CD1	2.51	0.46
1:B:2482:GLU:HG2	1:B:2956:PRO:HB3	1.97	0.46
1:B:2000:LEU:HD12	1:D:2000:LEU:HD12	1.97	0.46
1:B:1450:ALA:N	1:B:1613:ARG:O	2.48	0.46
1:D:141:ALA:O	1:D:145:MET:HB2	2.15	0.46
1:C:2376:LEU:HD22	1:C:2392:VAL:HG21	1.97	0.46
1:B:808:ALA:HB3	1:B:811:ASP:HB2	1.96	0.46
1:A:778:THR:HG21	1:A:854:GLY:HA3	1.97	0.46
1:A:2352:ILE:HG12	1:A:2412:ALA:HB1	1.96	0.46
1:C:1276:GLN:HE21	1:C:1292:LEU:HD13	1.79	0.46
1:A:2736:PRO:HG2	1:A:2746:SER:HA	1.96	0.46
1:D:2610:ARG:NH1	1:D:2700:LEU:HD11	2.25	0.46
1:E:2884:ASP:HA	1:E:2916:ARG:NH1	2.29	0.46
1:A:1237:ARG:CZ	1:B:95:PRO:HB2	2.46	0.46
1:B:2180:LYS:NZ	1:B:2962:ASP:HB3	2.29	0.46
1:E:501:VAL:HA	1:E:504:LYS:HE2	1.96	0.46
1:B:2252:VAL:HG13	1:B:2255:ARG:HH21	1.81	0.46
1:C:1352:PHE:HA	1:C:1353:PRO:HD3	1.72	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1723:GLU:C	1:E:1725:SER:H	2.18	0.46
1:C:713:ALA:O	1:C:868:ARG:NH2	2.48	0.46
1:B:2461:VAL:HG21	1:B:2751:VAL:HG13	1.96	0.46
1:E:2785:ALA:HB1	1:E:2809:LEU:HG	1.97	0.46
1:B:2961:LEU:HD22	1:B:2976:TRP:CD1	2.50	0.46
1:A:1619:VAL:HA	1:A:1620:PRO:HD2	1.80	0.46
1:F:641:ASP:OD1	1:F:641:ASP:N	2.48	0.46
1:C:1346:PRO:HG2	1:C:1699:ARG:HD3	1.97	0.46
1:C:2630:ASP:HB3	1:C:2633:VAL:HG23	1.97	0.46
1:A:2681:THR:O	1:A:2764:ALA:HA	2.15	0.46
1:A:1455:VAL:HB	1:A:1480:ARG:HH12	1.80	0.46
1:D:1450:ALA:N	1:D:1613:ARG:O	2.48	0.46
1:A:2630:ASP:HB3	1:A:2633:VAL:HG23	1.97	0.46
1:B:2348:GLN:O	1:B:2416:MET:HG3	2.15	0.46
1:C:996:LEU:HA	1:C:1010:LEU:HA	1.97	0.46
1:D:94:ARG:HG3	1:D:95:PRO:HD3	1.98	0.46
1:B:94:ARG:HG3	1:B:95:PRO:HD3	1.98	0.46
1:E:1508:ILE:HB	1:E:1562:ARG:HD3	1.96	0.46
1:C:518:ASP:HA	1:C:543:GLY:O	2.15	0.46
1:E:540:ASN:ND2	1:E:544:ILE:HG13	2.30	0.46
1:C:2252:VAL:HG13	1:C:2255:ARG:HH21	1.80	0.46
1:C:1723:GLU:C	1:C:1725:SER:H	2.18	0.46
1:E:713:ALA:O	1:E:868:ARG:NH2	2.48	0.46
1:C:2461:VAL:HG21	1:C:2751:VAL:HG13	1.96	0.46
1:C:2961:LEU:HD22	1:C:2976:TRP:CD1	2.51	0.46
1:A:976:TRP:O	1:A:976:TRP:CG	2.68	0.46
1:E:976:TRP:CG	1:E:976:TRP:O	2.68	0.46
1:E:2210:VAL:HB	1:E:2277:ILE:HD11	1.97	0.46
1:C:2543:PHE:HA	1:C:2624:GLN:HE22	1.81	0.46
1:A:2376:LEU:HD22	1:A:2392:VAL:HG21	1.97	0.46
1:A:1094:THR:O	1:A:1288:PRO:HG2	2.15	0.46
1:A:768:LYS:HA	1:A:775:LEU:HD11	1.98	0.46
1:C:778:THR:HG21	1:C:854:GLY:HA3	1.97	0.46
1:F:365:ALA:O	1:F:369:ARG:N	2.42	0.46
1:B:1455:VAL:HB	1:B:1480:ARG:HH12	1.80	0.46
1:B:2770:LEU:HB3	1:B:2815:GLN:HB3	1.97	0.46
1:D:1237:ARG:CZ	1:E:95:PRO:HB2	2.46	0.46
1:D:2884:ASP:HA	1:D:2916:ARG:NH1	2.29	0.46
1:B:518:ASP:HA	1:B:543:GLY:O	2.15	0.46
1:E:2252:VAL:HG13	1:E:2255:ARG:HH21	1.80	0.46
1:E:575:HIS:CD2	1:E:644:LEU:HD22	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:713:ALA:O	1:B:868:ARG:NH2	2.48	0.46
1:F:836:VAL:HG12	1:F:837:VAL:N	2.29	0.46
1:F:2461:VAL:HG21	1:F:2751:VAL:HG13	1.97	0.46
1:C:2361:VAL:HG21	1:C:2401:ILE:HD11	1.98	0.46
1:F:2482:GLU:HG2	1:F:2956:PRO:HB3	1.97	0.46
1:B:976:TRP:CG	1:B:976:TRP:O	2.68	0.46
1:F:745:THR:HG22	1:F:747:LEU:H	1.80	0.46
1:E:641:ASP:OD1	1:E:641:ASP:N	2.48	0.46
1:A:2000:LEU:HD12	1:E:2000:LEU:HD12	1.96	0.46
1:A:365:ALA:O	1:A:369:ARG:N	2.42	0.46
1:E:684:MET:HG3	1:E:895:THR:HA	1.98	0.46
1:E:2543:PHE:HA	1:E:2624:GLN:HE22	1.81	0.46
1:E:406:THR:OG1	1:E:418:GLU:OE1	2.34	0.46
1:D:808:ALA:HB3	1:D:811:ASP:HB2	1.96	0.46
1:F:2543:PHE:HA	1:F:2624:GLN:HE22	1.81	0.46
1:B:84:GLU:HB2	1:B:85:PRO:HD3	1.97	0.46
1:B:1346:PRO:HG2	1:B:1699:ARG:HD3	1.98	0.46
1:D:534:ASP:O	1:D:538:GLU:HG3	2.16	0.46
1:C:2603:ARG:HH12	1:D:2612:PRO:HD2	1.81	0.46
1:C:2612:PRO:HD2	1:D:2603:ARG:HH12	1.81	0.46
1:A:2697:HIS:CD2	1:F:2700:LEU:HD22	2.43	0.46
1:E:1072:TRP:CD1	1:E:1097:VAL:HG22	2.51	0.46
1:E:2769:ASP:OD1	1:E:2770:LEU:N	2.49	0.46
1:A:2724:GLN:HG2	1:F:3001:HIS:CE1	2.51	0.46
1:B:2843:GLN:HG2	1:B:2845:PHE:CZ	2.49	0.46
1:B:2724:GLN:HG2	1:E:3001:HIS:CE1	2.51	0.46
1:B:540:ASN:ND2	1:B:544:ILE:HG13	2.30	0.46
1:B:1087:PHE:CE1	1:C:198:ILE:HG12	2.51	0.46
1:A:2252:VAL:HG22	1:A:2255:ARG:NH2	2.30	0.46
1:A:2252:VAL:HG13	1:A:2255:ARG:HH21	1.80	0.46
1:D:2252:VAL:HG13	1:D:2255:ARG:HH21	1.80	0.46
1:F:205:PRO:CD	1:F:289:PRO:HB3	2.46	0.46
1:E:1325:LEU:HD11	1:E:1343:LEU:HD22	1.98	0.46
1:F:803:GLU:OE1	1:F:2431:THR:CG2	2.62	0.46
1:E:2361:VAL:HG21	1:E:2401:ILE:HD11	1.98	0.46
1:D:2961:LEU:HD22	1:D:2976:TRP:CD1	2.51	0.46
1:B:2978:ARG:NH1	1:B:2979:GLU:OE2	2.49	0.46
1:D:976:TRP:O	1:D:976:TRP:CG	2.68	0.46
1:A:745:THR:OG1	1:A:834:GLU:O	2.19	0.46
1:A:1346:PRO:HG2	1:A:1699:ARG:HD3	1.98	0.46
1:B:1319:ASP:HB2	1:B:1342:ARG:NH1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:365:ALA:HB3	1:F:366:PRO:HD3	1.97	0.46
1:E:2137:GLU:O	1:E:2163:THR:N	2.30	0.46
1:A:210:VAL:HG22	1:A:287:PHE:CD1	2.50	0.46
1:F:768:LYS:HA	1:F:775:LEU:HD11	1.97	0.46
1:F:606:ASN:HD22	1:F:606:ASN:H	1.62	0.46
1:D:365:ALA:HB3	1:D:366:PRO:HD3	1.96	0.46
1:B:2137:GLU:O	1:B:2163:THR:N	2.30	0.46
1:E:2773:GLU:HA	1:E:2776:ILE:HG22	1.97	0.46
1:C:84:GLU:HB2	1:C:85:PRO:HD3	1.97	0.46
1:A:966:PRO:O	1:A:970:ILE:N	2.48	0.46
1:F:1072:TRP:CD1	1:F:1097:VAL:HG22	2.51	0.46
1:C:1072:TRP:CD1	1:C:1097:VAL:HG22	2.51	0.46
1:B:2848:GLY:HA2	1:E:2728:GLY:HA2	1.97	0.46
1:A:518:ASP:HA	1:A:543:GLY:O	2.15	0.46
1:E:518:ASP:HA	1:E:543:GLY:O	2.15	0.46
1:B:683:GLY:CA	1:B:700:ASN:HB2	2.44	0.46
1:F:585:HIS:HD2	1:F:586:SER:H	1.62	0.46
1:C:111:GLU:HB2	1:C:112:PRO:HD3	1.98	0.46
1:F:167:ALA:HB3	1:F:178:LEU:HD21	1.98	0.46
1:B:670:GLY:HA3	1:B:899:ALA:HB2	1.96	0.46
1:C:167:ALA:HB3	1:C:178:LEU:HD21	1.98	0.46
1:E:2978:ARG:NH1	1:E:2979:GLU:OE2	2.49	0.46
1:A:2961:LEU:HD22	1:A:2976:TRP:CD1	2.50	0.46
1:A:1590:VAL:HG11	1:A:1671:TRP:CE2	2.50	0.46
1:F:602:ARG:NH2	1:F:641:ASP:OD1	2.27	0.46
1:D:222:LEU:HD21	1:D:236:VAL:HA	1.97	0.46
1:F:1319:ASP:HB2	1:F:1342:ARG:NH1	2.31	0.46
1:D:1319:ASP:HB2	1:D:1342:ARG:NH1	2.31	0.46
1:C:684:MET:HG3	1:C:895:THR:HA	1.98	0.46
1:F:2773:GLU:HA	1:F:2776:ILE:HG22	1.97	0.46
1:E:2630:ASP:HB3	1:E:2633:VAL:HG23	1.97	0.46
1:D:1094:THR:O	1:D:1288:PRO:HG2	2.15	0.46
1:B:768:LYS:HA	1:B:775:LEU:HD11	1.98	0.46
1:C:2348:GLN:O	1:C:2416:MET:HG3	2.15	0.46
1:C:768:LYS:HA	1:C:775:LEU:HD11	1.97	0.46
1:B:799:PHE:CZ	1:B:2433:ARG:CG	2.99	0.46
1:E:799:PHE:CZ	1:E:2433:ARG:CG	2.99	0.46
1:F:799:PHE:CZ	1:F:2433:ARG:CG	2.99	0.46
1:C:1508:ILE:HB	1:C:1562:ARG:HD3	1.97	0.46
1:D:518:ASP:HA	1:D:543:GLY:O	2.16	0.46
1:C:2946:LEU:HD22	1:C:2994:VAL:HG23	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:205:PRO:CD	1:E:289:PRO:HB3	2.46	0.46
1:F:1325:LEU:HD11	1:F:1343:LEU:HD22	1.98	0.46
1:F:647:THR:HG22	1:F:901:ILE:HD11	1.96	0.46
1:D:575:HIS:CD2	1:D:644:LEU:HD22	2.49	0.46
1:A:670:GLY:HA3	1:A:899:ALA:HB2	1.96	0.46
1:E:2461:VAL:HG21	1:E:2751:VAL:HG13	1.96	0.46
1:E:2790:MET:SD	1:E:2800:PHE:HB2	2.56	0.46
1:D:2361:VAL:HG21	1:D:2401:ILE:HD11	1.98	0.46
1:E:222:LEU:HD21	1:E:236:VAL:HA	1.97	0.46
1:B:2210:VAL:HB	1:B:2277:ILE:HD11	1.96	0.46
1:B:176:VAL:O	1:B:180:ALA:N	2.36	0.46
1:F:1133:VAL:O	1:F:1193:ALA:N	2.42	0.46
1:D:406:THR:OG1	1:D:418:GLU:OE1	2.34	0.46
1:F:1450:ALA:N	1:F:1613:ARG:O	2.47	0.46
1:F:2376:LEU:HD22	1:F:2392:VAL:HG21	1.97	0.46
1:F:1346:PRO:HG2	1:F:1699:ARG:HD3	1.98	0.46
1:D:1455:VAL:HB	1:D:1480:ARG:HH12	1.79	0.46
1:B:2630:ASP:HB3	1:B:2633:VAL:HG23	1.97	0.46
1:D:768:LYS:HA	1:D:775:LEU:HD11	1.98	0.46
1:B:2773:GLU:HA	1:B:2776:ILE:HG22	1.97	0.46
1:A:2603:ARG:HH12	1:F:2612:PRO:HD2	1.81	0.46
1:B:1072:TRP:CD1	1:B:1097:VAL:HG22	2.51	0.46
1:C:2845:PHE:HD2	1:C:2860:ALA:HA	1.81	0.46
1:A:2728:GLY:HA2	1:F:2848:GLY:HA2	1.97	0.46
1:D:2946:LEU:HD22	1:D:2994:VAL:HG23	1.98	0.46
1:C:540:ASN:ND2	1:C:544:ILE:HG13	2.30	0.46
1:C:2762:VAL:HG22	1:C:2822:LEU:HB2	1.96	0.46
1:F:2252:VAL:HG13	1:F:2255:ARG:HH21	1.81	0.46
1:B:1723:GLU:C	1:B:1725:SER:H	2.18	0.46
1:D:2790:MET:SD	1:D:2800:PHE:HB2	2.56	0.46
1:C:575:HIS:CD2	1:C:644:LEU:HD22	2.48	0.46
1:E:2957:PRO:HB3	1:E:2979:GLU:C	2.36	0.46
1:A:2978:ARG:NH1	1:A:2979:GLU:OE2	2.49	0.46
1:D:745:THR:HG22	1:D:747:LEU:H	1.80	0.46
1:F:2978:ARG:NH1	1:F:2979:GLU:OE2	2.49	0.46
1:F:406:THR:OG1	1:F:418:GLU:OE1	2.34	0.46
1:E:2352:ILE:HG12	1:E:2412:ALA:HB1	1.96	0.46
1:B:1094:THR:O	1:B:1288:PRO:HG2	2.15	0.46
1:F:778:THR:HG21	1:F:854:GLY:HA3	1.97	0.46
1:A:2619:ARG:HH12	1:A:2779:GLY:HA2	1.81	0.46
1:B:277:LEU:HD22	1:B:676:GLY:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1304:LYS:O	1:C:1307:ASP:HB2	2.16	0.46
1:A:1450:ALA:N	1:A:1613:ARG:O	2.48	0.46
1:C:2096:VAL:HG13	1:C:2097:ALA:H	1.80	0.46
1:D:799:PHE:CZ	1:D:2433:ARG:CG	2.99	0.46
1:A:2610:ARG:NH1	1:A:2700:LEU:HD21	2.31	0.46
1:D:1634:ARG:NH1	1:D:1639:ALA:H	2.11	0.46
1:A:1087:PHE:CE1	1:B:198:ILE:HG12	2.51	0.46
1:B:205:PRO:CD	1:B:289:PRO:HB3	2.46	0.46
1:A:1325:LEU:HD11	1:A:1343:LEU:HD22	1.98	0.46
1:C:207:MET:HG3	1:C:292:VAL:HB	1.98	0.46
1:F:1723:GLU:C	1:F:1725:SER:H	2.18	0.46
1:B:111:GLU:HB2	1:B:112:PRO:HD3	1.98	0.46
1:B:868:ARG:HD3	1:B:872:ARG:HH12	1.81	0.46
1:A:111:GLU:HB2	1:A:112:PRO:HD3	1.98	0.46
1:C:2790:MET:SD	1:C:2800:PHE:HB2	2.56	0.46
1:E:868:ARG:HD3	1:E:872:ARG:HH12	1.81	0.46
1:F:2961:LEU:HD22	1:F:2976:TRP:CD1	2.50	0.46
1:B:745:THR:HG22	1:B:747:LEU:H	1.80	0.46
1:C:222:LEU:HD21	1:C:236:VAL:HA	1.97	0.46
1:D:1699:ARG:HG3	1:D:1730:GLU:HB3	1.97	0.46
1:E:1346:PRO:HG2	1:E:1699:ARG:HD3	1.98	0.46
1:C:406:THR:OG1	1:C:418:GLU:OE1	2.34	0.46
1:D:2070:LEU:O	1:D:2074:GLU:HG3	2.16	0.46
1:D:2543:PHE:HA	1:D:2624:GLN:HE22	1.81	0.46
1:E:84:GLU:HB2	1:E:85:PRO:HD3	1.97	0.46
1:D:2630:ASP:HB3	1:D:2633:VAL:HG23	1.97	0.46
1:C:606:ASN:HD22	1:C:606:ASN:H	1.62	0.46
1:B:2543:PHE:HA	1:B:2624:GLN:HE22	1.81	0.46
1:B:2610:ARG:NH1	1:B:2700:LEU:HD21	2.31	0.46
1:B:2612:PRO:HD2	1:E:2603:ARG:HH12	1.81	0.46
1:A:2610:ARG:NH1	1:A:2700:LEU:HD11	2.25	0.46
1:D:2770:LEU:HB3	1:D:2815:GLN:HB3	1.97	0.46
1:B:2769:ASP:OD1	1:B:2770:LEU:N	2.49	0.46
1:E:936:ARG:O	1:E:941:ARG:N	2.45	0.46
1:E:94:ARG:HG3	1:E:95:PRO:HD3	1.98	0.46
1:A:2212:TRP:HA	1:A:2229:LYS:HB3	1.98	0.46
1:F:2946:LEU:HD22	1:F:2994:VAL:HG23	1.98	0.46
1:D:540:ASN:ND2	1:D:544:ILE:HG13	2.30	0.46
1:D:195:ARG:NH1	1:D:198:ILE:HD12	2.31	0.46
1:B:1352:PHE:HA	1:B:1353:PRO:HD3	1.72	0.46
1:C:1702:GLU:OE1	1:C:1712:ALA:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2891:LYS:HG3	1:B:2924:ILE:HD13	1.99	0.46
1:A:2790:MET:SD	1:A:2800:PHE:HB2	2.56	0.46
1:F:2891:LYS:HG3	1:F:2924:ILE:HD13	1.98	0.46
1:E:2800:PHE:CE1	1:E:2812:LEU:HD22	2.50	0.46
1:B:2583:PHE:HB2	1:E:2614:LYS:HG3	1.97	0.46
1:D:2957:PRO:HB3	1:D:2979:GLU:C	2.36	0.46
1:D:2978:ARG:NH1	1:D:2979:GLU:OE2	2.49	0.46
1:C:2957:PRO:HB3	1:C:2979:GLU:C	2.36	0.46
1:C:2978:ARG:NH1	1:C:2979:GLU:OE2	2.49	0.46
1:B:207:MET:HG3	1:B:292:VAL:HB	1.98	0.46
1:C:745:THR:OG1	1:C:834:GLU:O	2.19	0.46
1:A:222:LEU:HD21	1:A:236:VAL:HA	1.97	0.46
1:B:2737:VAL:HG12	1:E:2716:ASN:OD1	2.16	0.46
1:F:1699:ARG:HG3	1:F:1730:GLU:HB3	1.97	0.46
1:F:3065:PRO:O	1:F:3069:GLN:N	2.42	0.46
1:B:2672:TRP:CD1	1:B:2831:MET:HG2	2.51	0.46
1:E:2619:ARG:NH1	1:E:2779:GLY:HA2	2.31	0.46
1:A:2773:GLU:HA	1:A:2776:ILE:HG22	1.97	0.46
1:A:406:THR:OG1	1:A:418:GLU:OE1	2.34	0.46
1:A:799:PHE:CZ	1:A:2433:ARG:CG	2.99	0.45
1:C:2610:ARG:NH1	1:C:2700:LEU:HD21	2.31	0.45
1:B:2603:ARG:HH12	1:E:2612:PRO:HD2	1.81	0.45
1:A:2769:ASP:OD1	1:A:2770:LEU:N	2.49	0.45
1:E:1695:LEU:HA	1:E:1695:LEU:HD12	1.70	0.45
1:B:2845:PHE:HD2	1:B:2860:ALA:HA	1.81	0.45
1:C:2724:GLN:HG2	1:D:3001:HIS:CE1	2.51	0.45
1:A:94:ARG:HG3	1:A:95:PRO:HD3	1.98	0.45
1:F:2086:SER:HA	1:F:2089:PHE:CG	2.52	0.45
1:A:2086:SER:HA	1:A:2089:PHE:CG	2.52	0.45
1:D:205:PRO:CD	1:D:289:PRO:HB3	2.46	0.45
1:D:2246:ALA:N	1:D:2255:ARG:NH1	2.64	0.45
1:D:167:ALA:HB3	1:D:178:LEU:HD21	1.98	0.45
1:C:868:ARG:HD3	1:C:872:ARG:HH12	1.81	0.45
1:C:2785:ALA:HB1	1:C:2809:LEU:HG	1.97	0.45
1:B:167:ALA:HB3	1:B:178:LEU:HD21	1.98	0.45
1:B:2889:ILE:HD11	1:B:2922:LEU:HD22	1.98	0.45
1:A:2891:LYS:HG3	1:A:2924:ILE:HD13	1.98	0.45
1:F:868:ARG:HD3	1:F:872:ARG:HH12	1.81	0.45
1:E:2891:LYS:HG3	1:E:2924:ILE:HD13	1.98	0.45
1:A:2957:PRO:HB3	1:A:2979:GLU:C	2.36	0.45
1:F:1519:VAL:HG13	1:F:1530:LEU:HD23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:602:ARG:NH2	1:B:641:ASP:OD1	2.27	0.45
1:B:1699:ARG:HG3	1:B:1730:GLU:HB3	1.97	0.45
1:A:534:ASP:O	1:A:538:GLU:HG3	2.16	0.45
1:A:1483:LYS:O	1:A:1487:ILE:HG23	2.17	0.45
1:F:2070:LEU:O	1:F:2074:GLU:HG3	2.16	0.45
1:E:534:ASP:O	1:E:538:GLU:HG3	2.16	0.45
1:C:1462:ALA:HB2	1:C:1468:TYR:HE1	1.82	0.45
1:B:2619:ARG:HH12	1:B:2779:GLY:HA2	1.81	0.45
1:C:277:LEU:HD22	1:C:676:GLY:O	2.16	0.45
1:E:1094:THR:O	1:E:1288:PRO:HG2	2.15	0.45
1:F:2096:VAL:HG13	1:F:2097:ALA:H	1.80	0.45
1:B:3080:ARG:NH1	1:B:3080:ARG:HG3	2.09	0.45
1:E:1237:ARG:CZ	1:F:95:PRO:HB2	2.45	0.45
1:B:2086:SER:HA	1:B:2089:PHE:CG	2.52	0.45
1:A:2946:LEU:HD22	1:A:2994:VAL:HG23	1.98	0.45
1:D:351:ILE:HB	1:D:375:ILE:HG12	1.99	0.45
1:D:544:ILE:O	1:D:546:HIS:N	2.41	0.45
1:C:205:PRO:CD	1:C:289:PRO:HB3	2.46	0.45
1:B:585:HIS:HD2	1:B:586:SER:H	1.62	0.45
1:F:2246:ALA:N	1:F:2255:ARG:NH1	2.64	0.45
1:E:2334:HIS:CD2	1:E:2391:LYS:HG3	2.50	0.45
1:F:1702:GLU:OE1	1:F:1712:ALA:N	2.49	0.45
1:D:1325:LEU:HD11	1:D:1343:LEU:HD22	1.98	0.45
1:F:2790:MET:SD	1:F:2800:PHE:HB2	2.56	0.45
1:B:2790:MET:SD	1:B:2800:PHE:HB2	2.56	0.45
1:D:836:VAL:HG12	1:D:837:VAL:N	2.29	0.45
1:F:784:GLU:OE2	1:F:816:LEU:HD21	2.16	0.45
1:C:784:GLU:OE2	1:C:816:LEU:HD21	2.16	0.45
1:E:2889:ILE:HD11	1:E:2922:LEU:HD22	1.98	0.45
1:C:2482:GLU:HG2	1:C:2956:PRO:HB3	1.97	0.45
1:C:746:TYR:HB2	1:C:833:ALA:HB1	1.99	0.45
1:B:2716:ASN:OD1	1:E:2737:VAL:HG12	2.16	0.45
1:F:684:MET:HG3	1:F:895:THR:HA	1.98	0.45
1:F:1094:THR:O	1:F:1288:PRO:HG2	2.15	0.45
1:D:778:THR:HG21	1:D:854:GLY:HA3	1.97	0.45
1:F:277:LEU:HD22	1:F:676:GLY:O	2.16	0.45
1:B:47:ALA:O	1:B:353:ASP:HA	2.17	0.45
1:B:606:ASN:H	1:B:606:ASN:HD22	1.62	0.45
1:E:2989:LEU:HD12	1:E:2989:LEU:HA	1.77	0.45
1:D:2619:ARG:NH1	1:D:2779:GLY:HA2	2.31	0.45
1:B:406:THR:OG1	1:B:418:GLU:OE1	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:534:ASP:O	1:F:538:GLU:HG3	2.16	0.45
1:C:2619:ARG:NH1	1:C:2779:GLY:HA2	2.31	0.45
1:C:782:ARG:HD3	1:C:853:LEU:HD22	1.97	0.45
1:F:996:LEU:HA	1:F:1010:LEU:HA	1.97	0.45
1:E:2610:ARG:NH1	1:E:2700:LEU:HD21	2.31	0.45
1:C:2702:GLY:HA3	1:D:2557:LEU:CG	2.45	0.45
1:A:2848:GLY:HA2	1:F:2728:GLY:HA2	1.97	0.45
1:B:3001:HIS:CE1	1:E:2724:GLN:HG2	2.51	0.45
1:E:2845:PHE:HD2	1:E:2860:ALA:HA	1.82	0.45
1:F:2212:TRP:HA	1:F:2229:LYS:HB3	1.98	0.45
1:C:1488:VAL:HB	1:C:1579:VAL:HG22	1.99	0.45
1:A:585:HIS:CB	1:A:694:ASP:HB2	2.47	0.45
1:A:1284:GLY:HA2	1:A:1343:LEU:HD11	1.99	0.45
1:C:2234:PRO:HB2	1:C:2287:LEU:HD13	1.98	0.45
1:F:2234:PRO:HB2	1:F:2287:LEU:HD13	1.98	0.45
1:D:2234:PRO:HB2	1:D:2287:LEU:HD13	1.98	0.45
1:B:2234:PRO:HB2	1:B:2287:LEU:HD13	1.98	0.45
1:E:167:ALA:HB3	1:E:178:LEU:HD21	1.98	0.45
1:A:167:ALA:HB3	1:A:178:LEU:HD21	1.98	0.45
1:F:1660:LEU:HA	1:F:1660:LEU:HD23	1.86	0.45
1:E:784:GLU:OE2	1:E:816:LEU:HD21	2.16	0.45
1:E:745:THR:HG22	1:E:747:LEU:H	1.80	0.45
1:E:1319:ASP:HB2	1:E:1342:ARG:NH1	2.31	0.45
1:A:1319:ASP:HB2	1:A:1342:ARG:NH1	2.31	0.45
1:B:684:MET:HG3	1:B:895:THR:HA	1.98	0.45
1:B:365:ALA:HB3	1:B:366:PRO:HD3	1.96	0.45
1:A:1612:GLY:N	1:A:1623:PHE:O	2.48	0.45
1:E:1450:ALA:N	1:E:1613:ARG:O	2.47	0.45
1:B:1612:GLY:N	1:B:1623:PHE:O	2.48	0.45
1:F:1483:LYS:O	1:F:1487:ILE:HG23	2.17	0.45
1:A:381:ARG:O	1:A:384:GLN:HG2	2.17	0.45
1:B:1462:ALA:HB2	1:B:1468:TYR:HE1	1.81	0.45
1:D:1612:GLY:N	1:D:1623:PHE:O	2.48	0.45
1:D:47:ALA:O	1:D:353:ASP:HA	2.17	0.45
1:D:2352:ILE:HG12	1:D:2412:ALA:HB1	1.96	0.45
1:D:277:LEU:HD22	1:D:676:GLY:O	2.16	0.45
1:E:3080:ARG:CG	1:E:3080:ARG:NH1	2.72	0.45
1:B:2610:ARG:NH1	1:B:2700:LEU:HD11	2.25	0.45
1:D:1072:TRP:CD1	1:D:1097:VAL:HG22	2.51	0.45
1:A:1072:TRP:CD1	1:A:1097:VAL:HG22	2.51	0.45
1:A:2702:GLY:HA3	1:F:2557:LEU:CG	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1634:ARG:NH1	1:F:1639:ALA:H	2.11	0.45
1:B:2946:LEU:HD22	1:B:2994:VAL:HG23	1.98	0.45
1:C:351:ILE:HB	1:C:375:ILE:HG12	1.99	0.45
1:C:683:GLY:CA	1:C:700:ASN:HB2	2.44	0.45
1:A:205:PRO:CD	1:A:289:PRO:HB3	2.46	0.45
1:B:195:ARG:NH1	1:B:198:ILE:HD12	2.31	0.45
1:D:198:ILE:HG12	1:F:1087:PHE:CE1	2.51	0.45
1:E:1087:PHE:CE1	1:F:198:ILE:HG12	2.51	0.45
1:F:585:HIS:CB	1:F:694:ASP:HB2	2.47	0.45
1:A:2297:ARG:HH22	1:A:2391:LYS:HZ3	1.65	0.45
1:A:1723:GLU:C	1:A:1725:SER:H	2.18	0.45
1:D:550:LYS:HD3	1:D:577:GLU:OE2	2.17	0.45
1:C:2800:PHE:CE1	1:C:2812:LEU:HD22	2.50	0.45
1:F:2889:ILE:HD11	1:F:2922:LEU:HD22	1.98	0.45
1:C:2891:LYS:HZ2	1:C:2903:GLU:HG2	1.82	0.45
1:D:207:MET:HG3	1:D:292:VAL:HB	1.98	0.45
1:A:2583:PHE:HB2	1:F:2614:LYS:HG3	1.97	0.45
1:A:2583:PHE:HB2	1:F:2614:LYS:HZ2	1.80	0.45
1:E:2482:GLU:HG2	1:E:2956:PRO:HB3	1.97	0.45
1:C:763:SER:HB3	1:C:766:ASP:HB2	1.99	0.45
1:D:1226:ARG:CG	1:D:1313:VAL:HG12	2.47	0.45
1:E:222:LEU:HD13	1:E:248:ILE:HD12	1.99	0.45
1:B:222:LEU:HD21	1:B:236:VAL:HA	1.97	0.45
1:D:746:TYR:HB2	1:D:833:ALA:HB1	1.99	0.45
1:A:2619:ARG:NH1	1:A:2779:GLY:HA2	2.31	0.45
1:B:2619:ARG:NH1	1:B:2779:GLY:HA2	2.31	0.45
1:F:2137:GLU:O	1:F:2163:THR:N	2.30	0.45
1:E:2070:LEU:O	1:E:2074:GLU:HG3	2.16	0.45
1:F:84:GLU:HB2	1:F:85:PRO:HD3	1.98	0.45
1:D:2472:TYR:CZ	1:D:2930:LEU:HD22	2.52	0.45
1:C:2681:THR:O	1:C:2764:ALA:HA	2.15	0.45
1:E:1553:ALA:O	1:E:1557:GLU:HG2	2.17	0.45
1:C:1171:PRO:HA	1:C:1191:ARG:HG2	1.99	0.45
1:B:2452:ASP:HA	1:B:3017:ALA:HA	1.99	0.45
1:B:996:LEU:HA	1:B:1010:LEU:HA	1.97	0.45
1:C:966:PRO:O	1:C:970:ILE:N	2.48	0.45
1:A:2612:PRO:HD2	1:F:2603:ARG:HH12	1.81	0.45
1:E:2770:LEU:HB3	1:E:2815:GLN:HB3	1.97	0.45
1:D:95:PRO:HB2	1:F:1237:ARG:CZ	2.46	0.45
1:B:1237:ARG:CZ	1:C:95:PRO:HB2	2.45	0.45
1:A:95:PRO:HB2	1:C:1237:ARG:CZ	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1634:ARG:NH1	1:E:1639:ALA:N	2.65	0.45
1:D:2086:SER:HA	1:D:2089:PHE:CG	2.52	0.45
1:A:540:ASN:ND2	1:A:544:ILE:HG13	2.31	0.45
1:A:195:ARG:NH1	1:A:198:ILE:HD12	2.31	0.45
1:C:195:ARG:NH1	1:C:198:ILE:HD12	2.31	0.45
1:E:585:HIS:CB	1:E:694:ASP:HB2	2.47	0.45
1:B:1325:LEU:HD11	1:B:1343:LEU:HD22	1.98	0.45
1:D:111:GLU:HB2	1:D:112:PRO:HD3	1.98	0.45
1:D:2785:ALA:HB1	1:D:2809:LEU:HG	1.97	0.45
1:A:2361:VAL:HG21	1:A:2401:ILE:HD11	1.98	0.45
1:D:747:LEU:HD22	1:D:751:ARG:CZ	2.47	0.45
1:C:222:LEU:HD13	1:C:248:ILE:HD12	1.99	0.45
1:D:1346:PRO:HG2	1:D:1699:ARG:HD3	1.98	0.45
1:B:746:TYR:HB2	1:B:833:ALA:HB1	1.99	0.45
1:A:684:MET:HG3	1:A:895:THR:HA	1.98	0.45
1:C:2619:ARG:HH12	1:C:2779:GLY:HA2	1.81	0.45
1:F:1285:LYS:HB3	1:F:1286:PRO:HD2	1.99	0.45
1:D:1304:LYS:O	1:D:1307:ASP:HB2	2.16	0.45
1:A:1462:ALA:HB2	1:A:1468:TYR:HE1	1.81	0.45
1:E:2376:LEU:HD22	1:E:2392:VAL:HG21	1.97	0.45
1:A:47:ALA:O	1:A:353:ASP:HA	2.17	0.45
1:C:534:ASP:O	1:C:538:GLU:HG3	2.16	0.45
1:B:1553:ALA:O	1:B:1557:GLU:HG2	2.17	0.45
1:F:2619:ARG:NH1	1:F:2779:GLY:HA2	2.31	0.45
1:B:381:ARG:O	1:B:384:GLN:HG2	2.17	0.45
1:C:2058:ASP:OD1	1:C:2058:ASP:N	2.46	0.45
1:E:1672:GLN:HE21	1:E:1672:GLN:HB3	1.58	0.45
1:A:84:GLU:HB2	1:A:85:PRO:HD3	1.98	0.45
1:F:2452:ASP:HA	1:F:3017:ALA:HA	1.99	0.45
1:A:2543:PHE:HA	1:A:2624:GLN:HE22	1.81	0.45
1:B:1304:LYS:O	1:B:1307:ASP:HB2	2.16	0.45
1:A:1304:LYS:O	1:A:1307:ASP:HB2	2.16	0.45
1:C:2845:PHE:CD2	1:C:2860:ALA:HA	2.52	0.45
1:C:2212:TRP:HA	1:C:2229:LYS:HB3	1.98	0.45
1:F:1634:ARG:NH1	1:F:1639:ALA:N	2.65	0.45
1:E:2212:TRP:HA	1:E:2229:LYS:HB3	1.98	0.45
1:B:2092:THR:CG2	1:B:2092:THR:O	2.64	0.45
1:C:585:HIS:CB	1:C:694:ASP:HB2	2.47	0.45
1:D:2092:THR:O	1:D:2092:THR:CG2	2.64	0.45
1:D:868:ARG:HD3	1:D:872:ARG:HH12	1.81	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:D:2482:GLU:HG2	1:D:2956:PRO:HB3	1.97	0.45
1:C:2716:ASN:OD1	1:D:2737:VAL:HG12	2.16	0.45
1:A:2210:VAL:HB	1:A:2277:ILE:HD11	1.96	0.45
1:D:2619:ARG:HH12	1:D:2779:GLY:HA2	1.81	0.45
1:A:1553:ALA:O	1:A:1557:GLU:HG2	2.17	0.45
1:E:2249:MET:O	1:E:2250:SER:OG	2.28	0.45
1:A:1171:PRO:HA	1:A:1191:ARG:HG2	1.99	0.45
1:D:2672:TRP:CD1	1:D:2831:MET:HG2	2.52	0.45
1:A:277:LEU:HD22	1:A:676:GLY:O	2.16	0.45
1:D:1462:ALA:HB2	1:D:1468:TYR:HE1	1.81	0.45
1:C:2672:TRP:CD1	1:C:2831:MET:HG2	2.52	0.45
1:A:996:LEU:HA	1:A:1010:LEU:HA	1.97	0.45
1:A:2611:VAL:HA	1:A:2612:PRO:HD3	1.86	0.45
1:C:2770:LEU:HB3	1:C:2815:GLN:HB3	1.97	0.45
1:F:2845:PHE:HD2	1:F:2860:ALA:HA	1.82	0.45
1:D:2845:PHE:HD2	1:D:2860:ALA:HA	1.82	0.45
1:E:2086:SER:HA	1:E:2089:PHE:CG	2.52	0.45
1:C:2246:ALA:N	1:C:2255:ARG:NH1	2.64	0.45
1:C:1284:GLY:HA2	1:C:1343:LEU:HD11	1.99	0.45
1:B:550:LYS:HD3	1:B: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
1:A:1702:GLU:OE1	1:A:1712:ALA:N	2.49	0.45
1:A:2614:LYS:HG3	1:F:2583:PHE:HB2	1.97	0.45
1:F:763:SER:HB3	1:F:766:ASP:HB2	1.99	0.45
1:C:747:LEU:HD22	1:C:751:ARG:CZ	2.47	0.45
1:B:1519:VAL:HG13	1:B:1530:LEU:HD23	1.99	0.45
1:E:1605:LYS:H	1:E:1658:LYS:HE2	1.82	0.45
1:F:2619:ARG:HH12	1:F:2779:GLY:HA2	1.81	0.45
1:D:84:GLU:HB2	1:D:85:PRO:HD3	1.98	0.45
1:E:277:LEU:HD22	1:E:676:GLY:O	2.16	0.45
1:B:2472:TYR:CZ	1:B:2930:LEU:HD22	2.52	0.45
1:A:1581:PHE:HB2	1:A:1586:LEU:HD22	1.99	0.45
1:C:3080:ARG:NH1	1:C:3080:ARG:CG	2.72	0.45
1:F:2610:ARG:NH1	1:F:2700:LEU:HD21	2.31	0.45
1:C:94:ARG:HG3	1:C:95:PRO:HD3	1.98	0.45
1:C:511:ARG:CB	1:C:540:ASN:HB2	2.46	0.45
1:A:2246:ALA:N	1:A:2255:ARG:NH1	2.64	0.45
1:E:1284:GLY:HA2	1:E:1343:LEU:HD11	1.99	0.45
1:F:1684:ASP:HA	1:F:1687:PHE:HD2	1.82	0.45
1:D:438:THR:HA	1:D:880:HIS:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2234:PRO:HB2	1:E:2287:LEU:HD13	1.98	0.45
1:E:111:GLU:HB2	1:E:112:PRO:HD3	1.98	0.45
1:B:2361:VAL:HG21	1:B:2401:ILE:HD11	1.98	0.45
1:D:784:GLU:OE2	1:D:816:LEU:HD21	2.16	0.45
1:F:207:MET:HG3	1:F:292:VAL:HB	1.98	0.45
1:B:2957:PRO:HB3	1:B:2979:GLU:C	2.36	0.45
1:F:2957:PRO:HB3	1:F:2979:GLU:C	2.36	0.45
1:F:1226:ARG:CG	1:F:1313:VAL:HG12	2.47	0.45
1:C:1519:VAL:HG13	1:C:1530:LEU:HD23	1.99	0.45
1:D:222:LEU:HD13	1:D:248:ILE:HD12	1.99	0.45
1:C:1319:ASP:HB2	1:C:1342:ARG:NH1	2.31	0.45
1:D:684:MET:HG3	1:D:895:THR:HA	1.98	0.45
1:A:2296:ASN:HB3	1:A:2299:MET:SD	2.57	0.45
1:B:534:ASP:O	1:B:538:GLU:HG3	2.16	0.45
1:C:47:ALA:O	1:C:353:ASP:HA	2.17	0.45
1:B:1285:LYS:HB3	1:B:1286:PRO:HD2	1.99	0.45
1:E:2472:TYR:CZ	1:E:2930:LEU:HD22	2.52	0.45
1:B:2879:LEU:HD13	1:B:3009:VAL:HG11	1.98	0.45
1:E:1171:PRO:HA	1:E:1191:ARG:HG2	1.99	0.45
1:C:799:PHE:CZ	1:C:2433:ARG:CG	2.99	0.45
1:C:3001:HIS:CE1	1:D:2724:GLN:HG2	2.51	0.45
1:F:2845:PHE:CD2	1:F:2860:ALA:HA	2.52	0.45
1:D:2845:PHE:CD2	1:D:2860:ALA:HA	2.52	0.45
1:F:94:ARG:HG3	1:F:95:PRO:HD3	1.98	0.45
1:B:1488:VAL:HB	1:B:1579:VAL:HG22	1.99	0.45
1:E:2246:ALA:N	1:E:2255:ARG:NH1	2.64	0.45
1:B:2246:ALA:N	1:B:2255:ARG:NH1	2.64	0.45
1:C:393:VAL:HG12	1:C:394:PRO:N	2.32	0.45
1:A:2785:ALA:HB1	1:A:2809:LEU:HG	1.97	0.45
1:A:207:MET:HG3	1:A:292:VAL:HB	1.98	0.45
1:C:2300:PHE:CZ	1:C:2398:LEU:HB3	2.52	0.45
1:B:2958:ASN:HD22	1:B:2976:TRP:HE1	1.65	0.45
1:B:1226:ARG:CG	1:B:1313:VAL:HG12	2.47	0.45
1:F:747:LEU:HD22	1:F:751:ARG:CZ	2.47	0.45
1:E:1226:ARG:CG	1:E:1313:VAL:HG12	2.47	0.45
1:F:222:LEU:HD13	1:F:248:ILE:HD12	1.99	0.45
1:F:222:LEU:HD21	1:F:236:VAL:HA	1.97	0.45
1:A:2716:ASN:OD1	1:F:2737:VAL:HG12	2.17	0.45
1:A:746:TYR:HB2	1:A:833:ALA:HB1	1.99	0.45
1:F:1462:ALA:HB2	1:F:1468:TYR:HE1	1.81	0.45
1:E:2879:LEU:HD13	1:E:3009:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2879:LEU:HD13	1:C:3009:VAL:HG11	1.98	0.45
1:E:1483:LYS:O	1:E:1487:ILE:HG23	2.17	0.45
1:A:2672:TRP:CD1	1:A:2831:MET:HG2	2.52	0.45
1:E:1304:LYS:O	1:E:1307:ASP:HB2	2.16	0.45
1:B:1581:PHE:HB2	1:B:1586:LEU:HD22	1.99	0.45
1:E:2296:ASN:HB3	1:E:2299:MET:SD	2.57	0.45
1:C:1483:LYS:O	1:C:1487:ILE:HG23	2.17	0.45
1:C:2070:LEU:O	1:C:2074:GLU:HG3	2.16	0.45
1:A:3080:ARG:NH1	1:A:3080:ARG:CG	2.72	0.45
1:C:2769:ASP:OD1	1:C:2770:LEU:N	2.49	0.45
1:A:2845:PHE:HD2	1:A:2860:ALA:HA	1.82	0.45
1:A:3001:HIS:CE1	1:F:2724:GLN:HG2	2.51	0.45
1:B:544:ILE:O	1:B:546:HIS:N	2.40	0.45
1:C:336:TRP:CH2	1:C:360:LEU:HD21	2.52	0.45
1:F:1284:GLY:HA2	1:F:1343:LEU:HD11	1.99	0.45
1:E:336:TRP:CH2	1:E:360:LEU:HD21	2.52	0.45
1:B:1702:GLU:OE1	1:B:1712:ALA:N	2.49	0.45
1:A:336:TRP:CH2	1:A:360:LEU:HD21	2.52	0.45
1:D:1684:ASP:HA	1:D:1687:PHE:HD2	1.82	0.45
1:C:1684:ASP:HA	1:C:1687:PHE:HD2	1.82	0.45
1:C:664:LEU:HB3	1:C:701:ALA:HB1	1.99	0.45
1:D:393:VAL:HG12	1:D:394:PRO:N	2.32	0.45
1:B:2800:PHE:CE1	1:B:2812:LEU:HD22	2.50	0.45
1:A:2737:VAL:HG12	1:F:2716:ASN:OD1	2.17	0.45
1:E:1093:PRO:HB3	1:E:1277:HIS:CE1	2.52	0.45
1:C:2737:VAL:HG12	1:D:2716:ASN:OD1	2.16	0.45
1:C:1226:ARG:CG	1:C:1313:VAL:HG12	2.47	0.45
1:B:1483:LYS:O	1:B:1487:ILE:HG23	2.17	0.45
1:D:1553:ALA:O	1:D:1557:GLU:HG2	2.17	0.45
1:C:1553:ALA:O	1:C:1557:GLU:HG2	2.17	0.45
1:D:381:ARG:O	1:D:384:GLN:HG2	2.17	0.45
1:D:1488:VAL:HB	1:D:1579:VAL:HG22	1.99	0.44
1:E:207:MET:HG3	1:E:292:VAL:HB	1.98	0.44
1:F:550:LYS:HD3	1:F:577:GLU:OE2	2.17	0.44
1:E:1702:GLU:OE1	1:E:1712:ALA:N	2.49	0.44
1:B:393:VAL:HG12	1:B:394:PRO:N	2.32	0.44
1:A:664:LEU:HB3	1:A:701:ALA:HB1	1.99	0.44
1:B:438:THR:HA	1:B:880:HIS:CE1	2.51	0.44
1:D:2800:PHE:CE1	1:D:2812:LEU:HD22	2.50	0.44
1:A:602:ARG:NH2	1:A:641:ASP:OD1	2.27	0.44
1:A:2472:TYR:CZ	1:A:2930:LEU:HD22	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1285:LYS:HB3	1:A:1286:PRO:HD2	1.99	0.44
1:C:1268:GLY:HA2	1:C:1271:LEU:HD12	1.99	0.44
1:F:1304:LYS:O	1:F:1307:ASP:HB2	2.16	0.44
1:D:1268:GLY:HA2	1:D:1271:LEU:HD12	1.99	0.44
1:C:381:ARG:O	1:C:384:GLN:HG2	2.17	0.44
1:E:2672:TRP:CD1	1:E:2831:MET:HG2	2.52	0.44
1:F:2299:MET:HG2	1:F:2299:MET:H	1.68	0.44
1:F:2296:ASN:HB3	1:F:2299:MET:SD	2.57	0.44
1:C:1094:THR:O	1:C:1288:PRO:HG2	2.16	0.44
1:D:2610:ARG:NH1	1:D:2700:LEU:HD21	2.31	0.44
1:F:2610:ARG:NH1	1:F:2700:LEU:HD11	2.25	0.44
1:E:1268:GLY:HA2	1:E:1271:LEU:HD12	1.99	0.44
1:A:2770:LEU:HB3	1:A:2815:GLN:HB3	1.97	0.44
1:D:2769:ASP:OD1	1:D:2770:LEU:N	2.49	0.44
1:A:936:ARG:O	1:A:941:ARG:N	2.45	0.44
1:B:1634:ARG:NH1	1:B:1639:ALA:N	2.65	0.44
1:F:544:ILE:O	1:F:546:HIS:N	2.40	0.44
1:D:2014:SER:H	1:E:2591:ARG:HH12	1.65	0.44
1:E:544:ILE:O	1:E:546:HIS:N	2.41	0.44
1:F:195:ARG:NH1	1:F:198:ILE:HD12	2.31	0.44
1:F:2246:ALA:N	1:F:2255:ARG:HH12	2.16	0.44
1:B:1684:ASP:HA	1:B:1687:PHE:HD2	1.82	0.44
1:C:550:LYS:HD3	1:C:577:GLU:OE2	2.17	0.44
1:D:1702:GLU:OE1	1:D:1712:ALA:N	2.50	0.44
1:B:2300:PHE:CZ	1:B:2398:LEU:HB3	2.52	0.44
1:C:1660:LEU:HD23	1:C:1660:LEU:HA	1.85	0.44
1:A:747:LEU:HD22	1:A:751:ARG:CZ	2.47	0.44
1:E:763:SER:HB3	1:E:766:ASP:HB2	1.99	0.44
1:C:1093:PRO:HB3	1:C:1277:HIS:CE1	2.52	0.44
1:A:1605:LYS:H	1:A:1658:LYS:HE2	1.82	0.44
1:F:2672:TRP:CD1	1:F:2831:MET:HG2	2.52	0.44
1:C:1503:ILE:HB	1:C:1542:TYR:HB2	2.00	0.44
1:D:2452:ASP:HA	1:D:3017:ALA:HA	1.99	0.44
1:C:2472:TYR:CZ	1:C:2930:LEU:HD22	2.52	0.44
1:B:1133:VAL:O	1:B:1193:ALA:N	2.42	0.44
1:A:2070:LEU:O	1:A:2074:GLU:HG3	2.16	0.44
1:D:1581:PHE:HB2	1:D:1586:LEU:HD22	1.99	0.44
1:A:2462:VAL:HG13	1:A:2835:VAL:HG13	2.00	0.44
1:B:2212:TRP:HA	1:B:2229:LYS:HB3	1.98	0.44
1:C:1634:ARG:NH1	1:C:1639:ALA:N	2.65	0.44
1:C:2086:SER:HA	1:C:2089:PHE:CG	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:511:ARG:CB	1:F:540:ASN:HB2	2.46	0.44
1:E:1488:VAL:HB	1:E:1579:VAL:HG22	1.99	0.44
1:A:2246:ALA:N	1:A:2255:ARG:HH12	2.15	0.44
1:B:2246:ALA:N	1:B:2255:ARG:HH12	2.15	0.44
1:F:647:THR:OG1	2:F:4000:FMN:O3P	2.27	0.44
1:B:1284:GLY:HA2	1:B:1343:LEU:HD11	1.99	0.44
1:B:2209:LEU:O	1:B:2213:VAL:HG23	2.18	0.44
1:E:664:LEU:HB3	1:E:701:ALA:HB1	1.99	0.44
1:D:671:THR:HB	1:D:682:ASN:CG	2.38	0.44
1:C:2889:ILE:HD11	1:C:2922:LEU:HD22	1.98	0.44
1:D:2300:PHE:CZ	1:D:2398:LEU:HB3	2.52	0.44
1:D:2891:LYS:HZ2	1:D:2903:GLU:HG2	1.83	0.44
1:D:763:SER:HB3	1:D:766:ASP:HB2	1.99	0.44
1:B:1093:PRO:HB3	1:B:1277:HIS:CE1	2.52	0.44
1:E:2619:ARG:HH12	1:E:2779:GLY:HA2	1.81	0.44
1:E:768:LYS:HA	1:E:775:LEU:HD11	1.97	0.44
1:C:2452:ASP:HA	1:C:3017:ALA:HA	1.98	0.44
1:D:2471:PRO:HA	1:D:2625:ILE:HA	2.00	0.44
1:A:3065:PRO:O	1:A:3069:GLN:N	2.42	0.44
1:B:2296:ASN:HB3	1:B:2299:MET:SD	2.57	0.44
1:C:2462:VAL:HG13	1:C:2835:VAL:HG13	2.00	0.44
1:A:2879:LEU:HD13	1:A:3009:VAL:HG11	1.98	0.44
1:F:81:LEU:HD23	1:F:81:LEU:HA	1.88	0.44
1:B:2070:LEU:O	1:B:2074:GLU:HG3	2.16	0.44
1:F:47:ALA:O	1:F:353:ASP:HA	2.17	0.44
1:D:2096:VAL:HG13	1:D:2097:ALA:H	1.80	0.44
1:B:2096:VAL:HG13	1:B:2097:ALA:H	1.80	0.44
1:F:970:ILE:HG23	1:F:992:THR:HG21	2.00	0.44
1:F:2769:ASP:OD1	1:F:2770:LEU:N	2.49	0.44
1:E:2845:PHE:CD2	1:E:2860:ALA:HA	2.52	0.44
1:E:2946:LEU:HD22	1:E:2994:VAL:HG23	1.98	0.44
1:D:2014:SER:N	1:E:2591:ARG:NH1	2.66	0.44
1:E:2014:SER:H	1:F:2591:ARG:HH12	1.65	0.44
1:E:195:ARG:NH1	1:E:198:ILE:HD12	2.31	0.44
1:A:583:GLY:HA2	1:A:892:ILE:HD13	2.00	0.44
1:D:1537:LEU:HD13	1:D:1541:GLN:HB2	2.00	0.44
1:F:111:GLU:HB2	1:F:112:PRO:HD3	1.98	0.44
1:B:2903:GLU:OE2	1:B:2995:THR:OG1	2.36	0.44
1:A:868:ARG:HD3	1:A:872:ARG:HH12	1.81	0.44
1:A:2889:ILE:HD11	1:A:2922:LEU:HD22	1.98	0.44
1:D:2891:LYS:HG3	1:D:2924:ILE:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:784:GLU:OE2	1:B:816:LEU:HD21	2.16	0.44
1:F:2958:ASN:HD22	1:F:2976:TRP:HE1	1.65	0.44
1:A:1226:ARG:CG	1:A:1313:VAL:HG12	2.47	0.44
1:D:782:ARG:NH1	1:D:857:VAL:HG22	2.33	0.44
1:C:1605:LYS:H	1:C:1658:LYS:HE2	1.82	0.44
1:F:1605:LYS:H	1:F:1658:LYS:HE2	1.82	0.44
1:D:210:VAL:HG22	1:D:287:PHE:HD1	1.82	0.44
1:F:1553:ALA:O	1:F:1557:GLU:HG2	2.17	0.44
1:F:381:ARG:O	1:F:384:GLN:HG2	2.17	0.44
1:A:163:LEU:HD13	1:A:181:LEU:HD23	2.00	0.44
1:F:1581:PHE:HB2	1:F:1586:LEU:HD22	1.99	0.44
1:C:1612:GLY:N	1:C:1623:PHE:O	2.48	0.44
1:D:2462:VAL:HG13	1:D:2835:VAL:HG13	2.00	0.44
1:F:42:GLU:HA	1:F:43:PRO:HD3	1.91	0.44
1:D:2580:PHE:HE1	1:D:2603:ARG:HH21	1.66	0.44
1:B:2845:PHE:CD2	1:B:2860:ALA:HA	2.52	0.44
1:D:2212:TRP:HA	1:D:2229:LYS:HB3	1.98	0.44
1:C:2710:LEU:O	1:C:2713:VAL:HG22	2.18	0.44
1:C:1325:LEU:HD11	1:C:1343:LEU:HD22	1.98	0.44
1:B:1723:GLU:O	1:B:1725:SER:N	2.51	0.44
1:A:1723:GLU:O	1:A:1725:SER:N	2.51	0.44
1:B:575:HIS:CD2	1:B:644:LEU:HD22	2.49	0.44
1:E:393:VAL:HG12	1:E:394:PRO:N	2.32	0.44
1:A:2903:GLU:OE2	1:A:2995:THR:OG1	2.36	0.44
1:D:2889:ILE:HD11	1:D:2922:LEU:HD22	1.98	0.44
1:F:1350:TYR:CD1	1:F:1703:ILE:HD11	2.53	0.44
1:B:747:LEU:HD22	1:B:751:ARG:CZ	2.47	0.44
1:E:1519:VAL:HG13	1:E:1530:LEU:HD23	1.99	0.44
1:F:782:ARG:NH1	1:F:857:VAL:HG22	2.33	0.44
1:C:1450:ALA:N	1:C:1613:ARG:O	2.48	0.44
1:C:2555:SER:HA	1:C:2556:PRO:HD2	1.85	0.44
1:E:1133:VAL:N	1:E:1193:ALA:O	2.48	0.44
1:E:163:LEU:HD13	1:E:181:LEU:HD23	2.00	0.44
1:F:88:SER:HB3	1:F:314:THR:OG1	2.18	0.44
1:D:2058:ASP:N	1:D:2058:ASP:OD1	2.46	0.44
1:F:1551:LEU:HA	1:F:1551:LEU:HD13	1.79	0.44
1:E:47:ALA:O	1:E:353:ASP:HA	2.17	0.44
1:E:1457:GLU:OE2	1:E:1614:TYR:OH	2.30	0.44
1:E:1285:LYS:HB3	1:E:1286:PRO:HD2	1.99	0.44
1:F:2472:TYR:CZ	1:F:2930:LEU:HD22	2.52	0.44
1:F:163:LEU:HD13	1:F:181:LEU:HD23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:88:SER:HB3	1:C:314:THR:OG1	2.18	0.44
1:B:2580:PHE:HE1	1:B:2603:ARG:HH21	1.66	0.44
1:F:936:ARG:O	1:F:941:ARG:N	2.45	0.44
1:D:936:ARG:O	1:D:941:ARG:N	2.45	0.44
1:E:351:ILE:HB	1:E:375:ILE:HG12	1.99	0.44
1:A:351:ILE:HB	1:A:375:ILE:HG12	1.99	0.44
1:B:2014:SER:N	1:C:2591:ARG:NH1	2.66	0.44
1:C:2246:ALA:N	1:C:2255:ARG:HH12	2.15	0.44
1:D:2246:ALA:N	1:D:2255:ARG:HH12	2.15	0.44
1:D:2334:HIS:CD2	1:D:2391:LYS:HG3	2.50	0.44
1:F:1723:GLU:O	1:F:1725:SER:N	2.51	0.44
1:C:1350:TYR:CD1	1:C:1703:ILE:HD11	2.53	0.44
1:E:412:ASP:H	1:E:1025:VAL:CG2	2.31	0.44
1:A:2300:PHE:CZ	1:A:2398:LEU:HB3	2.52	0.44
1:F:2554:ALA:HB1	1:F:2614:LYS:HZ2	1.81	0.44
1:E:1350:TYR:CD1	1:E:1703:ILE:HD11	2.53	0.44
1:A:2958:ASN:HD22	1:A:2976:TRP:HE1	1.65	0.44
1:E:747:LEU:HD22	1:E:751:ARG:CZ	2.47	0.44
1:F:657:THR:HB	1:F:662:LYS:HE3	2.00	0.44
1:B:1171:PRO:HA	1:B:1191:ARG:HG2	1.99	0.44
1:D:1171:PRO:HA	1:D:1191:ARG:HG2	1.99	0.44
1:F:2541:ARG:O	1:F:2621:VAL:HG13	2.18	0.44
1:D:2879:LEU:HD13	1:D:3009:VAL:HG11	1.98	0.44
1:C:970:ILE:HG23	1:C:992:THR:HG21	2.00	0.44
1:D:1634:ARG:NH1	1:D:1639:ALA:N	2.65	0.44
1:B:351:ILE:HB	1:B:375:ILE:HG12	1.99	0.44
1:F:336:TRP:CH2	1:F:360:LEU:HD21	2.52	0.44
1:B:336:TRP:CH2	1:B:360:LEU:HD21	2.52	0.44
1:C:1723:GLU:O	1:C:1725:SER:N	2.51	0.44
1:B:412:ASP:H	1:B:1025:VAL:CG2	2.31	0.44
1:F:412:ASP:H	1:F:1025:VAL:CG2	2.31	0.44
1:C:671:THR:HB	1:C:682:ASN:CG	2.38	0.44
1:A:412:ASP:H	1:A:1025:VAL:CG2	2.31	0.44
1:A:784:GLU:OE2	1:A:816:LEU:HD21	2.16	0.44
1:D:1519:VAL:HG13	1:D:1530:LEU:HD23	1.98	0.44
1:D:1605:LYS:H	1:D:1658:LYS:HE2	1.82	0.44
1:A:782:ARG:NH1	1:A:857:VAL:HG22	2.33	0.44
1:B:782:ARG:NH1	1:B:857:VAL:HG22	2.33	0.44
1:C:782:ARG:NH1	1:C:857:VAL:HG22	2.33	0.44
1:F:2879:LEU:HD13	1:F:3009:VAL:HG11	1.98	0.44
1:C:2471:PRO:HA	1:C:2625:ILE:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1247:ASN:HA	1:D:1248:PRO:HD3	1.83	0.44
1:B:1705:VAL:O	1:B:1735:GLU:HB2	2.18	0.44
1:B:657:THR:HB	1:B:662:LYS:HE3	2.00	0.44
1:E:515:ALA:HA	1:E:516:PRO:HD3	1.84	0.44
1:A:1133:VAL:O	1:A:1193:ALA:N	2.42	0.44
1:A:2471:PRO:HA	1:A:2625:ILE:HA	2.00	0.44
1:A:1503:ILE:HB	1:A:1542:TYR:HB2	2.00	0.44
1:A:2452:ASP:HA	1:A:3017:ALA:HA	1.98	0.44
1:C:1581:PHE:HB2	1:C:1586:LEU:HD22	1.99	0.44
1:F:1268:GLY:HA2	1:F:1271:LEU:HD12	1.99	0.44
1:A:475:LEU:HA	1:A:475:LEU:HD23	1.79	0.44
1:A:2845:PHE:CD2	1:A:2860:ALA:HA	2.52	0.44
1:E:2710:LEU:O	1:E:2713:VAL:HG22	2.18	0.44
1:B:2014:SER:H	1:C:2591:ARG:HH12	1.65	0.44
1:A:2252:VAL:HG22	1:A:2255:ARG:HH21	1.82	0.44
1:D:1582:HIS:HA	1:D:1674:ALA:O	2.18	0.44
1:C:2252:VAL:HG22	1:C:2255:ARG:HH21	1.82	0.44
1:F:2710:LEU:O	1:F:2713:VAL:HG22	2.18	0.44
1:A:550:LYS:HD3	1:A:577:GLU:OE2	2.17	0.44
1:F:2209:LEU:O	1:F:2213:VAL:HG23	2.18	0.44
1:F:2252:VAL:HG22	1:F:2255:ARG:HH21	1.82	0.44
1:A:1684:ASP:HA	1:A:1687:PHE:HD2	1.82	0.44
1:B:2297:ARG:HH22	1:B:2391:LYS:HZ3	1.65	0.44
1:A:1537:LEU:HD13	1:A:1541:GLN:HB2	2.00	0.44
1:B:671:THR:HB	1:B:682:ASN:CG	2.38	0.44
1:A:2234:PRO:HB2	1:A:2287:LEU:HD13	1.98	0.44
1:B:1350:TYR:CD1	1:B:1703:ILE:HD11	2.53	0.44
1:E:695:ILE:HG22	1:E:697:GLU:HG3	2.00	0.44
1:D:1350:TYR:CD1	1:D:1703:ILE:HD11	2.53	0.44
1:A:1350:TYR:CD1	1:A:1703:ILE:HD11	2.53	0.44
1:A:222:LEU:HD13	1:A:248:ILE:HD12	1.99	0.44
1:A:2735:HIS:O	1:F:2737:VAL:N	2.51	0.44
1:E:782:ARG:NH1	1:E:857:VAL:HG22	2.33	0.44
1:B:782:ARG:HH11	1:B:857:VAL:HG22	1.83	0.44
1:B:2831:MET:HE2	1:B:2831:MET:HB3	1.87	0.44
1:A:2831:MET:HE2	1:A:2831:MET:HB3	1.87	0.44
1:F:1171:PRO:HA	1:F:1191:ARG:HG2	1.99	0.44
1:E:1581:PHE:HB2	1:E:1586:LEU:HD22	1.99	0.44
1:C:50:GLY:O	1:C:53:SER:OG	2.36	0.44
1:D:1285:LYS:HB3	1:D:1286:PRO:HD2	1.99	0.44
1:D:1483:LYS:O	1:D:1487:ILE:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:3044:ALA:HB1	1:F:3050:PRO:HB3	2.00	0.44
1:D:970:ILE:HG23	1:D:992:THR:HG21	2.00	0.44
1:C:2610:ARG:NH1	1:C:2700:LEU:HD11	2.25	0.44
1:C:2557:LEU:CG	1:D:2702:GLY:HA3	2.46	0.44
1:F:1488:VAL:HB	1:F:1579:VAL:HG22	1.99	0.44
1:F:351:ILE:HB	1:F:375:ILE:HG12	1.99	0.44
1:A:2334:HIS:CD2	1:A:2391:LYS:HG3	2.50	0.44
1:F:671:THR:HB	1:F:682:ASN:CG	2.38	0.44
1:B:763:SER:HB3	1:B:766:ASP:HB2	1.99	0.44
1:A:344:HIS:CD2	1:A:373:ILE:HG13	2.53	0.44
1:B:222:LEU:HD13	1:B:248:ILE:HD12	1.99	0.44
1:F:746:TYR:HB2	1:F:833:ALA:HB1	1.99	0.44
1:A:782:ARG:HH11	1:A:857:VAL:HG22	1.83	0.44
1:A:857:VAL:HG13	1:A:859:PHE:H	1.83	0.44
1:E:365:ALA:O	1:E:369:ARG:N	2.42	0.44
1:B:210:VAL:HG22	1:B:287:PHE:HD1	1.82	0.44
1:E:2471:PRO:HA	1:E:2625:ILE:HA	2.00	0.44
1:D:1503:ILE:HB	1:D:1542:TYR:HB2	2.00	0.44
1:F:516:PRO:HA	1:F:962:MET:SD	2.58	0.44
1:E:2209:LEU:O	1:E:2213:VAL:HG23	2.18	0.44
1:A:516:PRO:HA	1:A:962:MET:SD	2.58	0.44
1:F:1503:ILE:HB	1:F:1542:TYR:HB2	2.00	0.44
1:E:381:ARG:O	1:E:384:GLN:HG2	2.17	0.44
1:E:2580:PHE:HE1	1:E:2603:ARG:HH21	1.66	0.43
1:A:2700:LEU:HD22	1:F:2697:HIS:CD2	2.43	0.43
1:E:1072:TRP:HE1	1:E:1077:VAL:HG22	1.80	0.43
1:A:1634:ARG:NH1	1:A:1639:ALA:N	2.65	0.43
1:A:1488:VAL:HB	1:A:1579:VAL:HG22	1.99	0.43
1:A:2014:SER:H	1:B:2591:ARG:HH12	1.65	0.43
1:A:2014:SER:N	1:B:2591:ARG:HH12	2.16	0.43
1:A:2014:SER:N	1:B:2591:ARG:NH1	2.66	0.43
1:B:585:HIS:CB	1:B:694:ASP:HB2	2.47	0.43
1:A:2092:THR:O	1:A:2092:THR:CG2	2.64	0.43
1:E:2180:LYS:HZ1	1:E:2962:ASP:HB3	1.83	0.43
1:C:583:GLY:HA2	1:C:892:ILE:HD13	2.00	0.43
1:D:1723:GLU:O	1:D:1725:SER:N	2.51	0.43
1:D:34:LEU:O	1:D:38:LEU:HG	2.18	0.43
1:C:695:ILE:HG22	1:C:697:GLU:HG3	2.00	0.43
1:E:671:THR:HB	1:E:682:ASN:CG	2.38	0.43
1:F:2361:VAL:HG21	1:F:2401:ILE:HD11	1.98	0.43
1:E:2300:PHE:CZ	1:E:2398:LEU:HB3	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:344:HIS:CD2	1:C:373:ILE:HG13	2.53	0.43
1:F:344:HIS:CD2	1:F:373:ILE:HG13	2.53	0.43
1:B:1733:ASN:H	1:B:1737:ASP:HB2	1.83	0.43
1:A:1582:HIS:HA	1:A:1674:ALA:O	2.18	0.43
1:D:782:ARG:HH11	1:D:857:VAL:HG22	1.83	0.43
1:D:3044:ALA:HB1	1:D:3050:PRO:HB3	2.00	0.43
1:C:516:PRO:HA	1:C:962:MET:SD	2.58	0.43
1:B:1503:ILE:HB	1:B:1542:TYR:HB2	2.00	0.43
1:E:88:SER:HB3	1:E:314:THR:OG1	2.18	0.43
1:A:657:THR:HB	1:A:662:LYS:HE3	2.00	0.43
1:A:874:ASP:OD2	1:A:877:TRP:CD1	2.71	0.43
1:C:3044:ALA:HB1	1:C:3050:PRO:HB3	2.00	0.43
1:B:515:ALA:HA	1:B:516:PRO:HD3	1.84	0.43
1:A:2591:ARG:HH12	1:C:2014:SER:H	1.66	0.43
1:E:1582:HIS:HA	1:E:1674:ALA:O	2.18	0.43
1:E:2252:VAL:HG22	1:E:2255:ARG:HH21	1.83	0.43
1:B:2710:LEU:O	1:B:2713:VAL:HG22	2.18	0.43
1:E:1352:PHE:HA	1:E:1353:PRO:HD3	1.72	0.43
1:D:2209:LEU:O	1:D:2213:VAL:HG23	2.18	0.43
1:D:276:LYS:HB3	1:D:587:TRP:CH2	2.53	0.43
1:A:393:VAL:HG12	1:A:394:PRO:N	2.32	0.43
1:C:34:LEU:O	1:C:38:LEU:HG	2.18	0.43
1:A:671:THR:HB	1:A:682:ASN:CG	2.38	0.43
1:C:315:VAL:C	1:C:317:LEU:H	2.22	0.43
1:B:315:VAL:C	1:B:317:LEU:H	2.22	0.43
1:A:1519:VAL:HG13	1:A:1530:LEU:HD23	1.99	0.43
1:C:210:VAL:HG22	1:C:287:PHE:HD1	1.82	0.43
1:A:210:VAL:HG22	1:A:287:PHE:HD1	1.83	0.43
1:C:857:VAL:HG13	1:C:859:PHE:H	1.83	0.43
1:D:516:PRO:HA	1:D:962:MET:SD	2.58	0.43
1:E:2541:ARG:O	1:E:2621:VAL:HG13	2.18	0.43
1:F:856:PRO:HG2	1:F:874:ASP:HB2	2.00	0.43
1:E:2836:LEU:HD23	1:E:2836:LEU:HA	1.87	0.43
1:B:874:ASP:OD2	1:B:877:TRP:CD1	2.72	0.43
1:E:1462:ALA:HB2	1:E:1468:TYR:HE1	1.81	0.43
1:A:2096:VAL:HG13	1:A:2097:ALA:H	1.80	0.43
1:F:2580:PHE:HE1	1:F:2603:ARG:HH21	1.66	0.43
1:D:2591:ARG:NH1	1:F:2014:SER:N	2.66	0.43
1:F:2334:HIS:CD2	1:F:2391:LYS:HG3	2.50	0.43
1:E:647:THR:N	2:E:4000:FMN:O3P	2.51	0.43
1:E:2092:THR:O	1:E:2092:THR:CG2	2.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1537:LEU:HD13	1:E:1541:GLN:HB2	2.00	0.43
1:B:583:GLY:HA2	1:B:892:ILE:HD13	2.00	0.43
1:D:664:LEU:HB3	1:D:701:ALA:HB1	1.99	0.43
1:A:34:LEU:O	1:A:38:LEU:HG	2.19	0.43
1:E:746:TYR:HB2	1:E:833:ALA:HB1	1.99	0.43
1:B:1605:LYS:H	1:B:1658:LYS:HE2	1.82	0.43
1:B:2296:ASN:ND2	1:B:2395:THR:HG21	2.34	0.43
1:C:874:ASP:OD2	1:C:877:TRP:CD1	2.72	0.43
1:C:1247:ASN:HA	1:C:1248:PRO:HD3	1.83	0.43
1:D:2296:ASN:HB3	1:D:2299:MET:SD	2.57	0.43
1:B:2032:VAL:HG11	1:D:2032:VAL:HG11	2.00	0.43
1:E:3065:PRO:O	1:E:3069:GLN:N	2.43	0.43
1:C:1285:LYS:HB3	1:C:1286:PRO:HD2	1.99	0.43
1:E:2115:HIS:HA	1:E:2118:LEU:CG	2.49	0.43
1:D:1163:ASP:HA	1:D:1168:ARG:HA	2.01	0.43
1:D:580:ARG:HD3	1:D:896:ALA:HB3	2.01	0.43
1:D:336:TRP:CH2	1:D:360:LEU:HD21	2.52	0.43
1:F:1582:HIS:HA	1:F:1674:ALA:O	2.18	0.43
1:A:2710:LEU:O	1:A:2713:VAL:HG22	2.18	0.43
1:F:276:LYS:HB3	1:F:587:TRP:CH2	2.53	0.43
1:C:2209:LEU:O	1:C:2213:VAL:HG23	2.17	0.43
1:F:393:VAL:HG12	1:F:394:PRO:N	2.32	0.43
1:A:575:HIS:CD2	1:A:644:LEU:HD22	2.49	0.43
1:E:344:HIS:CD2	1:E:373:ILE:HG13	2.53	0.43
1:F:1733:ASN:H	1:F:1737:ASP:HB2	1.83	0.43
1:B:341:THR:HG23	1:B:344:HIS:ND1	2.34	0.43
1:A:2737:VAL:N	1:F:2735:HIS:O	2.51	0.43
1:D:1733:ASN:H	1:D:1737:ASP:HB2	1.83	0.43
1:B:2735:HIS:O	1:E:2737:VAL:N	2.51	0.43
1:C:365:ALA:O	1:C:369:ARG:N	2.42	0.43
1:A:3044:ALA:HB1	1:A:3050:PRO:HB3	2.00	0.43
1:E:856:PRO:HG2	1:E:874:ASP:HB2	2.00	0.43
1:B:658:SER:HB2	1:B:661:VAL:HG23	2.01	0.43
1:B:276:LYS:HB3	1:B:587:TRP:CH2	2.53	0.43
1:E:3044:ALA:HB1	1:E:3050:PRO:HB3	2.00	0.43
1:E:1503:ILE:HB	1:E:1542:TYR:HB2	2.00	0.43
1:D:657:THR:HB	1:D:662:LYS:HE3	2.00	0.43
1:C:2512:TRP:O	1:C:2520:LEU:HD12	2.19	0.43
1:E:970:ILE:HG23	1:E:992:THR:HG21	2.00	0.43
1:B:1268:GLY:HA2	1:B:1271:LEU:HD12	1.99	0.43
1:E:580:ARG:HD3	1:E:896:ALA:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:340:ILE:HD11	1:E:351:ILE:HD13	2.01	0.43
1:D:340:ILE:HD11	1:D:351:ILE:HD13	2.01	0.43
1:C:1582:HIS:HA	1:C:1674:ALA:O	2.18	0.43
1:E:1087:PHE:HD2	1:F:117:LYS:HZ1	1.67	0.43
1:B:2252:VAL:HG22	1:B:2255:ARG:HH21	1.82	0.43
1:F:2092:THR:O	1:F:2092:THR:CG2	2.64	0.43
1:B:647:THR:N	2:B:4000:FMN:O3P	2.51	0.43
1:F:1537:LEU:HD13	1:F:1541:GLN:HB2	2.00	0.43
1:C:1537:LEU:HD13	1:C:1541:GLN:HB2	2.00	0.43
1:B:695:ILE:HG22	1:B:697:GLU:HG3	2.01	0.43
1:C:2891:LYS:HG3	1:C:2924:ILE:HD13	1.98	0.43
1:D:412:ASP:H	1:D:1025:VAL:CG2	2.31	0.43
1:D:2958:ASN:HD22	1:D:2976:TRP:HE1	1.65	0.43
1:D:1317:GLY:O	1:D:1324:VAL:HG12	2.19	0.43
1:E:1317:GLY:O	1:E:1324:VAL:HG12	2.19	0.43
1:B:1582:HIS:HA	1:B:1674:ALA:O	2.18	0.43
1:D:857:VAL:HG13	1:D:859:PHE:H	1.83	0.43
1:A:1268:GLY:HA2	1:A:1271:LEU:HD12	1.99	0.43
1:D:1705:VAL:O	1:D:1735:GLU:HB2	2.18	0.43
1:C:2296:ASN:HB3	1:C:2299:MET:SD	2.57	0.43
1:E:1612:GLY:N	1:E:1623:PHE:O	2.48	0.43
1:D:658:SER:HB2	1:D:661:VAL:HG23	2.00	0.43
1:B:88:SER:HB3	1:B:314:THR:OG1	2.18	0.43
1:B:2471:PRO:HA	1:B:2625:ILE:HA	2.00	0.43
1:C:1117:ALA:HA	1:C:1120:GLU:HB2	2.01	0.43
1:C:2580:PHE:HE1	1:C:2603:ARG:HH21	1.66	0.43
1:A:1072:TRP:HE1	1:A:1077:VAL:HG22	1.80	0.43
1:B:2557:LEU:CG	1:E:2702:GLY:HA3	2.46	0.43
1:E:1163:ASP:HA	1:E:1168:ARG:HA	2.01	0.43
1:A:1399:ASN:HA	1:A:1400:PRO:HD3	1.86	0.43
1:A:2591:ARG:HH12	1:C:2014:SER:N	2.16	0.43
1:F:2706:PRO:O	1:F:2709:ILE:HG12	2.19	0.43
1:F:2297:ARG:HH12	1:F:2391:LYS:NZ	2.17	0.43
1:E:276:LYS:HB3	1:E:587:TRP:CH2	2.53	0.43
1:F:647:THR:N	2:F:4000:FMN:O3P	2.51	0.43
1:E:2297:ARG:HH22	1:E:2391:LYS:HZ3	1.67	0.43
1:E:34:LEU:O	1:E:38:LEU:HG	2.18	0.43
1:A:695:ILE:HG22	1:A:697:GLU:HG3	2.00	0.43
1:D:2903:GLU:OE2	1:D:2995:THR:OG1	2.36	0.43
1:E:315:VAL:C	1:E:317:LEU:H	2.22	0.43
1:A:763:SER:HB3	1:A:766:ASP:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1733:ASN:H	1:A:1737:ASP:HB2	1.83	0.43
1:E:1733:ASN:H	1:E:1737:ASP:HB2	1.83	0.43
1:B:307:ILE:HG22	1:B:311:TRP:CE2	2.54	0.43
1:C:782:ARG:HH11	1:C:857:VAL:HG22	1.83	0.43
1:E:2831:MET:HE2	1:E:2831:MET:HB3	1.87	0.43
1:B:516:PRO:HA	1:B:962:MET:SD	2.58	0.43
1:B:2462:VAL:HG13	1:B:2835:VAL:HG13	2.00	0.43
1:D:1504:ARG:HA	1:D:1540:SER:O	2.19	0.43
1:B:3065:PRO:O	1:B:3069:GLN:N	2.42	0.43
1:F:2512:TRP:O	1:F:2520:LEU:HD12	2.19	0.43
1:D:81:LEU:HD23	1:D:81:LEU:HA	1.88	0.43
1:C:658:SER:HB2	1:C:661:VAL:HG23	2.01	0.43
1:B:2541:ARG:O	1:B:2621:VAL:HG13	2.18	0.43
1:D:2115:HIS:HA	1:D:2118:LEU:CG	2.49	0.43
1:D:475:LEU:HA	1:D:475:LEU:HD23	1.79	0.43
1:C:1163:ASP:HA	1:C:1168:ARG:HA	2.01	0.43
1:B:2088:ARG:C	1:B:2188:ARG:NH1	2.72	0.43
1:C:340:ILE:HD11	1:C:351:ILE:HD13	2.01	0.43
1:D:2591:ARG:HH12	1:F:2014:SER:N	2.16	0.43
1:E:2014:SER:N	1:F:2591:ARG:NH1	2.66	0.43
1:D:117:LYS:HZ1	1:F:1087:PHE:HD2	1.67	0.43
1:E:550:LYS:HD3	1:E:577:GLU:OE2	2.17	0.43
1:A:276:LYS:HB3	1:A:587:TRP:CH2	2.53	0.43
1:D:647:THR:N	2:D:4000:FMN:O3P	2.51	0.43
1:C:647:THR:N	2:C:4000:FMN:O3P	2.51	0.43
1:B:34:LEU:O	1:B:38:LEU:HG	2.19	0.43
1:F:575:HIS:CD2	1:F:644:LEU:HD22	2.48	0.43
1:A:780:ARG:NH1	1:A:817:GLU:OE2	2.52	0.43
1:C:2958:ASN:HD22	1:C:2976:TRP:HE1	1.65	0.43
1:F:2810:GLY:HA2	1:F:2896:THR:HG22	2.01	0.43
1:B:2737:VAL:N	1:E:2735:HIS:O	2.51	0.43
1:F:210:VAL:HG22	1:F:287:PHE:HD1	1.82	0.43
1:B:163:LEU:HD13	1:B:181:LEU:HD23	2.00	0.43
1:A:658:SER:HB2	1:A:661:VAL:HG23	2.00	0.43
1:C:2674:HIS:HA	1:C:2675:PRO:HD2	1.88	0.43
1:C:2032:VAL:HG11	1:F:2032:VAL:HG11	2.01	0.43
1:F:2471:PRO:HA	1:F:2625:ILE:HA	2.00	0.43
1:C:2115:HIS:HA	1:C:2118:LEU:CG	2.49	0.43
1:B:3080:ARG:CG	1:B:3080:ARG:NH1	2.72	0.43
1:B:511:ARG:CB	1:B:540:ASN:HB2	2.46	0.43
1:A:2088:ARG:C	1:A:2188:ARG:NH1	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2088:ARG:C	1:E:2188:ARG:NH1	2.72	0.43
1:A:511:ARG:CB	1:A:540:ASN:HB2	2.46	0.43
1:D:683:GLY:CA	1:D:700:ASN:HB2	2.44	0.43
1:C:2706:PRO:O	1:C:2709:ILE:HG12	2.19	0.43
1:D:2710:LEU:O	1:D:2713:VAL:HG22	2.18	0.43
1:F:583:GLY:HA2	1:F:892:ILE:HD13	2.00	0.43
1:A:2297:ARG:HH12	1:A:2391:LYS:NZ	2.17	0.43
1:A:2209:LEU:O	1:A:2213:VAL:HG23	2.18	0.43
1:C:2334:HIS:CD2	1:C:2391:LYS:HG3	2.50	0.43
1:F:2903:GLU:OE2	1:F:2995:THR:OG1	2.36	0.43
1:E:1660:LEU:HA	1:E:1660:LEU:HD23	1.85	0.43
1:B:1619:VAL:HA	1:B:1620:PRO:HD2	1.80	0.43
1:C:341:THR:HG23	1:C:344:HIS:ND1	2.34	0.43
1:D:1291:LYS:HZ3	1:D:1346:PRO:HA	1.84	0.43
1:F:307:ILE:HG22	1:F:311:TRP:CE2	2.54	0.43
1:B:857:VAL:HG13	1:B:859:PHE:H	1.83	0.43
1:E:2296:ASN:ND2	1:E:2395:THR:HG21	2.34	0.43
1:B:1133:VAL:N	1:B:1193:ALA:O	2.48	0.43
1:C:2444:PRO:HB2	1:C:2988:PRO:HB3	2.01	0.43
1:C:1504:ARG:HA	1:C:1540:SER:O	2.19	0.43
1:D:874:ASP:OD2	1:D:877:TRP:CD1	2.72	0.43
1:E:2444:PRO:HB2	1:E:2988:PRO:HB3	2.01	0.43
1:B:1504:ARG:HA	1:B:1540:SER:O	2.19	0.43
1:E:2452:ASP:HA	1:E:3017:ALA:HA	1.99	0.43
1:C:1672:GLN:HE21	1:C:1672:GLN:HB3	1.58	0.43
1:F:2989:LEU:HD12	1:F:2989:LEU:HA	1.77	0.43
1:C:2137:GLU:O	1:C:2163:THR:N	2.30	0.43
1:F:1705:VAL:O	1:F:1735:GLU:HB2	2.18	0.43
1:F:2462:VAL:HG13	1:F:2835:VAL:HG13	2.00	0.43
1:F:1504:ARG:HA	1:F:1540:SER:O	2.19	0.43
1:A:2115:HIS:HA	1:A:2118:LEU:CG	2.49	0.43
1:B:2115:HIS:HA	1:B:2118:LEU:CG	2.48	0.43
1:E:42:GLU:HA	1:E:43:PRO:HD3	1.91	0.43
1:E:2557:LEU:HB3	1:E:2613:ARG:HB2	2.01	0.43
1:B:1163:ASP:HA	1:B:1168:ARG:HA	2.01	0.43
1:F:70:SER:HG	1:F:142:ARG:HH22	1.65	0.43
1:A:580:ARG:HD3	1:A:896:ALA:HB3	2.01	0.43
1:D:2088:ARG:C	1:D:2188:ARG:NH1	2.72	0.43
1:C:2088:ARG:C	1:C:2188:ARG:NH1	2.72	0.43
1:E:2706:PRO:O	1:E:2709:ILE:HG12	2.19	0.43
1:A:2706:PRO:O	1:A:2709:ILE:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2706:PRO:O	1:D:2709:ILE:HG12	2.19	0.43
1:A:585:HIS:HD2	1:A:586:SER:H	1.62	0.43
1:B:1537:LEU:HD13	1:B:1541:GLN:HB2	2.00	0.43
1:C:2092:THR:O	1:C:2092:THR:CG2	2.64	0.43
1:C:412:ASP:H	1:C:1025:VAL:CG2	2.31	0.43
1:F:2891:LYS:HZ2	1:F:2903:GLU:HG2	1.84	0.43
1:D:2810:GLY:HA2	1:D:2896:THR:HG22	2.01	0.43
1:D:344:HIS:CD2	1:D:373:ILE:HG13	2.53	0.43
1:E:857:VAL:HG13	1:E:859:PHE:H	1.83	0.43
1:F:857:VAL:HG13	1:F:859:PHE:H	1.83	0.43
1:E:516:PRO:HA	1:E:962:MET:SD	2.58	0.43
1:D:2296:ASN:ND2	1:D:2395:THR:HG21	2.34	0.43
1:E:1705:VAL:O	1:E:1735:GLU:HB2	2.18	0.43
1:D:1117:ALA:HA	1:D:1120:GLU:HB2	2.01	0.43
1:F:658:SER:HB2	1:F:661:VAL:HG23	2.00	0.43
1:B:3044:ALA:HB1	1:B:3050:PRO:HB3	2.00	0.43
1:B:2512:TRP:O	1:B:2520:LEU:HD12	2.19	0.43
1:F:1612:GLY:N	1:F:1623:PHE:O	2.48	0.43
1:B:2695:MET:HG3	1:B:2696:TYR:N	2.34	0.43
1:A:1705:VAL:O	1:A:1735:GLU:HB2	2.18	0.43
1:A:970:ILE:HG23	1:A:992:THR:HG21	2.00	0.43
1:D:931:VAL:HG13	1:D:934:LEU:N	2.21	0.43
1:B:2558:LEU:HD11	1:E:2610:ARG:HD2	2.01	0.43
1:F:436:THR:OG1	1:F:437:PRO:HD3	2.19	0.43
1:B:580:ARG:HD3	1:B:896:ALA:HB3	2.01	0.43
1:D:2014:SER:N	1:E:2591:ARG:HH12	2.16	0.43
1:E:2014:SER:N	1:F:2591:ARG:HH12	2.16	0.43
1:E:1084:THR:CG2	1:E:1274:ALA:HA	2.48	0.43
1:A:2591:ARG:NH1	1:C:2014:SER:N	2.66	0.43
1:E:2246:ALA:N	1:E:2255:ARG:HH12	2.15	0.43
1:D:2252:VAL:HG22	1:D:2255:ARG:HH21	1.82	0.43
1:E:585:HIS:HD2	1:E:586:SER:H	1.62	0.43
1:C:2891:LYS:HZ1	1:C:2904:THR:N	2.17	0.43
1:F:695:ILE:HG22	1:F:697:GLU:HG3	2.00	0.43
1:B:2468:GLU:OE2	1:B:2478:ARG:NH2	2.48	0.43
1:B:344:HIS:CD2	1:B:373:ILE:HG13	2.53	0.43
1:D:341:THR:HG23	1:D:344:HIS:ND1	2.34	0.43
1:A:856:PRO:HG2	1:A:874:ASP:HB2	2.00	0.43
1:E:2695:MET:HG3	1:E:2696:TYR:N	2.34	0.43
1:F:44:TYR:O	1:F:153:VAL:N	2.44	0.43
1:D:88:SER:HB3	1:D:314:THR:OG1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:2695:MET:HG3	1:F:2696:TYR:N	2.34	0.43
1:D:2541:ARG:O	1:D:2621:VAL:HG13	2.18	0.43
1:F:1021:LEU:HB3	1:F:1034:GLU:HG2	2.01	0.43
1:E:2552:ASP:N	1:E:2552:ASP:OD1	2.43	0.43
1:A:2541:ARG:O	1:A:2621:VAL:HG13	2.18	0.43
1:D:2786:ASP:OD2	1:D:2789:MET:HG2	2.19	0.43
1:E:53:SER:HA	1:E:359:ILE:HG13	2.01	0.43
1:E:1013:THR:CG2	1:E:1014:TRP:N	2.58	0.42
1:A:2580:PHE:HE1	1:A:2603:ARG:HH21	1.66	0.42
1:F:475:LEU:HA	1:F:475:LEU:HD23	1.79	0.42
1:F:1163:ASP:HA	1:F:1168:ARG:HA	2.01	0.42
1:B:2846:ALA:O	1:B:2859:GLY:HA3	2.19	0.42
1:F:580:ARG:HD3	1:F:896:ALA:HB3	2.01	0.42
1:C:45:ALA:O	1:C:351:ILE:HA	2.19	0.42
1:A:2244:ARG:HG2	1:A:2245:VAL:N	2.34	0.42
1:A:647:THR:N	2:A:4000:FMN:O3P	2.51	0.42
1:D:2297:ARG:HH12	1:D:2391:LYS:NZ	2.17	0.42
1:C:276:LYS:HB3	1:C:587:TRP:CH2	2.53	0.42
1:D:583:GLY:HA2	1:D:892:ILE:HD13	2.00	0.42
1:F:34:LEU:O	1:F:38:LEU:HG	2.19	0.42
1:F:664:LEU:HB3	1:F:701:ALA:HB1	1.99	0.42
1:E:1723:GLU:O	1:E:1725:SER:N	2.51	0.42
1:C:709:LEU:HD21	1:C:872:ARG:NE	2.34	0.42
1:F:2889:ILE:HB	1:F:2924:ILE:HG12	2.01	0.42
1:C:2903:GLU:OE2	1:C:2995:THR:OG1	2.36	0.42
1:C:2810:GLY:HA2	1:C:2896:THR:HG22	2.01	0.42
1:C:2737:VAL:N	1:D:2735:HIS:O	2.51	0.42
1:D:1093:PRO:HB3	1:D:1277:HIS:CE1	2.52	0.42
1:A:2808:ARG:HH21	1:A:2901:PRO:HD3	1.84	0.42
1:E:307:ILE:HG22	1:E:311:TRP:CE2	2.54	0.42
1:C:78:GLU:HB2	1:C:176:VAL:HG21	2.01	0.42
1:B:1317:GLY:O	1:B:1324:VAL:HG12	2.19	0.42
1:C:307:ILE:HG22	1:C:311:TRP:CE2	2.54	0.42
1:F:874:ASP:OD2	1:F:877:TRP:CD1	2.71	0.42
1:E:211:THR:HB	1:E:286:VAL:HB	2.01	0.42
1:C:1705:VAL:O	1:C:1735:GLU:HB2	2.18	0.42
1:A:44:TYR:O	1:A:153:VAL:N	2.44	0.42
1:D:885:GLU:HG2	1:D:887:ASP:H	1.84	0.42
1:E:2512:TRP:O	1:E:2520:LEU:HD12	2.19	0.42
1:A:2428:PRO:O	1:A:2428:PRO:CG	2.67	0.42
1:C:657:THR:HB	1:C:662:LYS:HE3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2786:ASP:OD2	1:C:2789:MET:HG2	2.19	0.42
1:C:954:PRO:O	1:C:965:ASN:N	2.52	0.42
1:A:2096:VAL:CG1	1:A:2097:ALA:N	2.82	0.42
1:E:931:VAL:HG13	1:E:934:LEU:N	2.21	0.42
1:D:45:ALA:O	1:D:351:ILE:HA	2.20	0.42
1:C:544:ILE:O	1:C:546:HIS:N	2.41	0.42
1:A:203:ASP:OD2	1:C:1087:PHE:CZ	2.72	0.42
1:A:117:LYS:HZ1	1:C:1087:PHE:HD2	1.67	0.42
1:A:1087:PHE:CZ	1:B:203:ASP:OD2	2.73	0.42
1:B:2706:PRO:O	1:B:2709:ILE:HG12	2.19	0.42
1:A:2753:LYS:HA	1:A:2753:LYS:HD3	1.83	0.42
1:F:1352:PHE:HA	1:F:1353:PRO:HD3	1.72	0.42
1:C:613:GLY:HA2	2:C:4000:FMN:O5'	2.19	0.42
1:C:2297:ARG:HH12	1:C:2391:LYS:NZ	2.17	0.42
1:B:709:LEU:HD21	1:B:872:ARG:NE	2.34	0.42
1:D:695:ILE:HG22	1:D:697:GLU:HG3	2.00	0.42
1:C:2889:ILE:HB	1:C:2924:ILE:HG12	2.01	0.42
1:E:780:ARG:NH1	1:E:817:GLU:OE2	2.52	0.42
1:C:780:ARG:NH1	1:C:817:GLU:OE2	2.52	0.42
1:D:780:ARG:NH1	1:D:817:GLU:OE2	2.52	0.42
1:E:2903:GLU:OE2	1:E:2995:THR:OG1	2.36	0.42
1:B:780:ARG:NH1	1:B:817:GLU:OE2	2.52	0.42
1:A:315:VAL:C	1:A:317:LEU:H	2.22	0.42
1:A:2810:GLY:HA2	1:A:2896:THR:HG22	2.01	0.42
1:D:307:ILE:HG22	1:D:311:TRP:CE2	2.54	0.42
1:C:2735:HIS:O	1:D:2737:VAL:N	2.51	0.42
1:C:2296:ASN:ND2	1:C:2395:THR:HG21	2.34	0.42
1:D:856:PRO:HG2	1:D:874:ASP:HB2	2.00	0.42
1:E:2786:ASP:OD2	1:E:2789:MET:HG2	2.19	0.42
1:E:2462:VAL:HG13	1:E:2835:VAL:HG13	2.00	0.42
1:A:50:GLY:O	1:A:53:SER:OG	2.36	0.42
1:C:163:LEU:HD13	1:C:181:LEU:HD23	2.00	0.42
1:F:2428:PRO:CG	1:F:2428:PRO:O	2.67	0.42
1:A:88:SER:HB3	1:A:314:THR:OG1	2.18	0.42
1:B:1662:ARG:HG3	1:B:1663:LYS:N	2.34	0.42
1:E:657:THR:HB	1:E:662:LYS:HE3	2.00	0.42
1:B:2610:ARG:HD2	1:E:2558:LEU:HD11	2.01	0.42
1:C:436:THR:OG1	1:C:437:PRO:HD3	2.19	0.42
1:B:1634:ARG:NH1	1:B:1639:ALA:H	2.11	0.42
1:B:45:ALA:O	1:B:351:ILE:HA	2.20	0.42
1:C:2244:ARG:HG2	1:C:2245:VAL:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:203:ASP:OD2	1:F:1087:PHE:CZ	2.72	0.42
1:E:583:GLY:HA2	1:E:892:ILE:HD13	2.00	0.42
1:B:2297:ARG:HH12	1:B:2391:LYS:NZ	2.17	0.42
1:C:393:VAL:O	1:C:395:GLU:N	2.52	0.42
1:A:709:LEU:HD21	1:A:872:ARG:NE	2.34	0.42
1:F:780:ARG:NH1	1:F:817:GLU:OE2	2.52	0.42
1:F:709:LEU:HD21	1:F:872:ARG:NE	2.34	0.42
1:D:315:VAL:C	1:D:317:LEU:H	2.22	0.42
1:B:2810:GLY:HA2	1:B:2896:THR:HG22	2.01	0.42
1:F:341:THR:HG23	1:F:344:HIS:ND1	2.34	0.42
1:C:2452:ASP:CG	1:C:2453:LEU:N	2.73	0.42
1:A:2452:ASP:CG	1:A:2453:LEU:N	2.73	0.42
1:E:874:ASP:OD2	1:E:877:TRP:CD1	2.72	0.42
1:C:2541:ARG:O	1:C:2621:VAL:HG13	2.18	0.42
1:E:1662:ARG:HG3	1:E:1663:LYS:N	2.34	0.42
1:A:1504:ARG:HA	1:A:1540:SER:O	2.19	0.42
1:D:2444:PRO:HB2	1:D:2988:PRO:HB3	2.01	0.42
1:F:1117:ALA:HA	1:F:1120:GLU:HB2	2.01	0.42
1:F:2786:ASP:OD2	1:F:2789:MET:HG2	2.19	0.42
1:B:53:SER:HA	1:B:359:ILE:HG13	2.01	0.42
1:D:1662:ARG:HG3	1:D:1663:LYS:N	2.34	0.42
1:C:211:THR:HB	1:C:286:VAL:HB	2.01	0.42
1:B:970:ILE:HG23	1:B:992:THR:HG21	2.00	0.42
1:C:931:VAL:HG13	1:C:934:LEU:N	2.21	0.42
1:B:2557:LEU:HB3	1:B:2613:ARG:HB2	2.01	0.42
1:A:2911:ALA:O	1:A:2916:ARG:HB2	2.20	0.42
1:B:1084:THR:CG2	1:B:1274:ALA:HA	2.48	0.42
1:D:2244:ARG:HG2	1:D:2245:VAL:N	2.34	0.42
1:B:664:LEU:HB3	1:B:701:ALA:HB1	1.99	0.42
1:D:613:GLY:HA2	2:D:4000:FMN:O5'	2.19	0.42
1:A:336:TRP:HE3	1:A:339:GLU:OE2	2.03	0.42
1:B:2891:LYS:HZ2	1:B:2903:GLU:HG2	1.84	0.42
1:A:2889:ILE:HG13	1:A:2922:LEU:HD13	2.02	0.42
1:A:816:LEU:HA	1:A:816:LEU:HD23	1.83	0.42
1:D:2891:LYS:NZ	1:D:2903:GLU:HB3	2.35	0.42
1:D:2889:ILE:HB	1:D:2924:ILE:HG12	2.01	0.42
1:D:2957:PRO:HB3	1:D:2980:PRO:N	2.34	0.42
1:B:2957:PRO:HB3	1:B:2980:PRO:N	2.34	0.42
1:F:1317:GLY:O	1:F:1324:VAL:HG12	2.19	0.42
1:A:1280:THR:O	1:A:1288:PRO:HB3	2.20	0.42
1:D:1280:THR:O	1:D:1288:PRO:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1133:VAL:N	1:F:1193:ALA:O	2.48	0.42
1:B:2452:ASP:CG	1:B:2453:LEU:N	2.73	0.42
1:C:856:PRO:HG2	1:C:874:ASP:HB2	2.00	0.42
1:E:658:SER:HB2	1:E:661:VAL:HG23	2.01	0.42
1:C:2855:ALA:HA	1:C:2856:PRO:HD3	1.93	0.42
1:A:1551:LEU:HA	1:A:1551:LEU:HD13	1.79	0.42
1:A:2530:TYR:O	1:A:2533:ALA:N	2.52	0.42
1:E:1504:ARG:HA	1:E:1540:SER:O	2.19	0.42
1:C:2141:VAL:HG22	1:C:2238:PHE:HD2	1.85	0.42
1:D:2141:VAL:HG22	1:D:2238:PHE:HD2	1.84	0.42
1:F:2115:HIS:HA	1:F:2118:LEU:CG	2.49	0.42
1:F:479:LEU:HD21	1:F:485:ILE:HD11	2.02	0.42
1:D:2557:LEU:HB3	1:D:2613:ARG:HB2	2.01	0.42
1:B:2805:ASP:OD2	1:B:2807:ARG:HB2	2.20	0.42
1:C:2846:ALA:O	1:C:2859:GLY:HA3	2.19	0.42
1:B:475:LEU:HA	1:B:475:LEU:HD23	1.79	0.42
1:D:2911:ALA:O	1:D:2916:ARG:HB2	2.19	0.42
1:F:2557:LEU:HB3	1:F:2613:ARG:HB2	2.01	0.42
1:E:45:ALA:O	1:E:351:ILE:HA	2.20	0.42
1:D:511:ARG:CB	1:D:540:ASN:HB2	2.46	0.42
1:F:340:ILE:HD11	1:F:351:ILE:HD13	2.00	0.42
1:B:336:TRP:HE3	1:B:339:GLU:OE2	2.03	0.42
1:A:2891:LYS:HZ1	1:A:2903:GLU:HB3	1.84	0.42
1:A:2891:LYS:NZ	1:A:2903:GLU:HB3	2.35	0.42
1:E:816:LEU:HD23	1:E:816:LEU:HA	1.82	0.42
1:A:2957:PRO:HB3	1:A:2980:PRO:N	2.34	0.42
1:C:2957:PRO:HB3	1:C:2980:PRO:N	2.35	0.42
1:A:2737:VAL:HG11	1:F:2715:PRO:HD2	2.02	0.42
1:F:1093:PRO:HB3	1:F:1277:HIS:CE1	2.52	0.42
1:D:1106:CYS:SG	1:D:1174:VAL:HG11	2.60	0.42
1:B:1280:THR:O	1:B:1288:PRO:HB3	2.20	0.42
1:C:1280:THR:O	1:C:1288:PRO:HB3	2.20	0.42
1:E:2452:ASP:CG	1:E:2453:LEU:N	2.73	0.42
1:F:211:THR:HB	1:F:286:VAL:HB	2.01	0.42
1:E:2141:VAL:HG22	1:E:2238:PHE:HD2	1.85	0.42
1:C:1070:VAL:N	1:C:1152:PHE:O	2.51	0.42
1:F:2055:VAL:HG22	1:F:2194:TRP:CD1	2.55	0.42
1:F:107:LEU:HD13	1:F:113:VAL:HB	2.02	0.42
1:E:1275:ALA:O	1:E:1279:VAL:HG23	2.20	0.42
1:E:2530:TYR:O	1:E:2533:ALA:N	2.52	0.42
1:D:163:LEU:HD13	1:D:181:LEU:HD23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2428:PRO:CG	1:D:2428:PRO:O	2.68	0.42
1:A:2512:TRP:O	1:A:2520:LEU:HD12	2.19	0.42
1:B:885:GLU:HG2	1:B:887:ASP:H	1.84	0.42
1:A:211:THR:HB	1:A:286:VAL:HB	2.02	0.42
1:E:479:LEU:HD21	1:E:485:ILE:HD11	2.02	0.42
1:A:436:THR:OG1	1:A:437:PRO:HD3	2.19	0.42
1:F:2911:ALA:O	1:F:2916:ARG:HB2	2.19	0.42
1:B:479:LEU:HD21	1:B:485:ILE:HD11	2.02	0.42
1:E:2805:ASP:OD2	1:E:2807:ARG:HB2	2.20	0.42
1:C:2911:ALA:O	1:C:2916:ARG:HB2	2.19	0.42
1:A:1163:ASP:HA	1:A:1168:ARG:HA	2.01	0.42
1:A:340:ILE:HD11	1:A:351:ILE:HD13	2.01	0.42
1:E:1008:VAL:O	1:E:1008:VAL:CG1	2.67	0.42
1:B:340:ILE:HD11	1:B:351:ILE:HD13	2.01	0.42
1:D:668:THR:HG23	1:D:683:GLY:HA3	2.02	0.42
1:F:2244:ARG:HG2	1:F:2245:VAL:N	2.34	0.42
1:B:613:GLY:HA2	2:B:4000:FMN:O5'	2.19	0.42
1:A:438:THR:HA	1:A:880:HIS:CE1	2.51	0.42
1:B:2800:PHE:CZ	1:B:2812:LEU:HD13	2.55	0.42
1:B:1656:LYS:N	1:B:1657:PRO:HD2	2.35	0.42
1:C:1656:LYS:N	1:C:1657:PRO:HD2	2.35	0.42
1:E:2958:ASN:HD22	1:E:2976:TRP:HE1	1.65	0.42
1:F:2957:PRO:HB3	1:F:2980:PRO:N	2.34	0.42
1:A:1093:PRO:HB3	1:A:1277:HIS:CE1	2.52	0.42
1:F:2808:ARG:HH21	1:F:2901:PRO:HD3	1.85	0.42
1:C:1317:GLY:O	1:C:1324:VAL:HG12	2.19	0.42
1:E:782:ARG:HH11	1:E:857:VAL:HG22	1.83	0.42
1:E:1275:ALA:HB2	1:E:1311:PHE:CE2	2.55	0.42
1:A:2444:PRO:HB2	1:A:2988:PRO:HB3	2.01	0.42
1:C:885:GLU:HG2	1:C:887:ASP:H	1.84	0.42
1:F:53:SER:HA	1:F:359:ILE:HG13	2.01	0.42
1:E:1117:ALA:HA	1:E:1120:GLU:HB2	2.01	0.42
1:A:559:SER:O	1:A:563:ILE:HG12	2.20	0.42
1:B:2584:ASP:O	1:B:2586:GLU:N	2.53	0.42
1:A:2695:MET:HG3	1:A:2696:TYR:N	2.34	0.42
1:D:2286:ARG:HD3	1:D:2331:SER:OG	2.20	0.42
1:C:2428:PRO:O	1:C:2428:PRO:CG	2.67	0.42
1:B:2449:GLU:CG	1:B:2449:GLU:O	2.68	0.42
1:C:81:LEU:HA	1:C:81:LEU:HD23	1.88	0.42
1:D:2892:HIS:HA	1:D:2942:GLN:HE22	1.85	0.42
1:A:2620:THR:OG1	1:A:2791:ARG:NH2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:211:THR:HB	1:B:286:VAL:HB	2.01	0.42
1:C:2055:VAL:HG22	1:C:2194:TRP:CD1	2.55	0.42
1:B:1275:ALA:O	1:B:1279:VAL:HG23	2.20	0.42
1:D:1021:LEU:HB3	1:D:1034:GLU:HG2	2.01	0.42
1:D:957:LEU:O	1:D:1034:GLU:HB2	2.20	0.42
1:F:2096:VAL:CG1	1:F:2097:ALA:N	2.82	0.42
1:C:970:ILE:O	1:C:974:THR:HG22	2.20	0.42
1:A:970:ILE:O	1:A:974:THR:HG22	2.20	0.42
1:A:2557:LEU:HB3	1:A:2613:ARG:HB2	2.02	0.42
1:A:2558:LEU:HD11	1:F:2610:ARG:HD2	2.01	0.42
1:A:2557:LEU:CG	1:F:2702:GLY:HA3	2.45	0.42
1:B:2911:ALA:O	1:B:2916:ARG:HB2	2.20	0.42
1:C:479:LEU:HD21	1:C:485:ILE:HD11	2.02	0.42
1:F:2088:ARG:C	1:F:2188:ARG:NH1	2.72	0.42
1:B:1087:PHE:CZ	1:C:203:ASP:OD2	2.72	0.42
1:E:1087:PHE:CZ	1:F:203:ASP:OD2	2.72	0.42
1:F:613:GLY:HA2	2:F:4000:FMN:O5'	2.19	0.42
1:B:2891:LYS:NZ	1:B:2903:GLU:HB3	2.35	0.42
1:D:1703:ILE:HG22	1:D:1704:GLY:H	1.85	0.42
1:F:2300:PHE:HZ	1:F:2398:LEU:HB3	1.85	0.42
1:F:315:VAL:C	1:F:317:LEU:H	2.22	0.42
1:B:1106:CYS:SG	1:B:1174:VAL:HG11	2.60	0.42
1:F:1106:CYS:SG	1:F:1174:VAL:HG11	2.60	0.42
1:D:1133:VAL:N	1:D:1193:ALA:O	2.48	0.42
1:F:782:ARG:HH11	1:F:857:VAL:HG22	1.83	0.42
1:E:1280:THR:O	1:E:1288:PRO:HB3	2.20	0.42
1:E:1133:VAL:O	1:E:1193:ALA:N	2.42	0.42
1:D:1120:GLU:HA	1:D:1125:VAL:CG2	2.50	0.42
1:B:1275:ALA:HB2	1:B:1311:PHE:CE2	2.55	0.42
1:F:559:SER:O	1:F:563:ILE:HG12	2.20	0.42
1:A:1021:LEU:HB3	1:A:1034:GLU:HG2	2.01	0.42
1:E:957:LEU:O	1:E:1034:GLU:HB2	2.20	0.42
1:C:2294:SER:HB3	1:C:2310:LYS:HB2	2.02	0.42
1:E:2620:THR:OG1	1:E:2791:ARG:NH2	2.53	0.42
1:A:2055:VAL:HG22	1:A:2194:TRP:CD1	2.55	0.42
1:E:2428:PRO:O	1:E:2428:PRO:CG	2.67	0.42
1:B:2294:SER:HB3	1:B:2310:LYS:HB2	2.02	0.42
1:B:1021:LEU:HB3	1:B:1034:GLU:HG2	2.01	0.42
1:D:2294:SER:HB3	1:D:2310:LYS:HB2	2.02	0.42
1:D:2055:VAL:HG22	1:D:2194:TRP:CD1	2.55	0.42
1:A:3080:ARG:HG3	1:A:3080:ARG:NH1	2.09	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2558:LEU:HB2	1:E:2701:LEU:HD23	2.02	0.42
1:F:2846:ALA:O	1:F:2859:GLY:HA3	2.20	0.42
1:A:1008:VAL:O	1:A:1008:VAL:CG1	2.67	0.42
1:A:1084:THR:CG2	1:A:1274:ALA:HA	2.48	0.42
1:F:336:TRP:HE3	1:F:339:GLU:OE2	2.03	0.42
1:A:393:VAL:O	1:A:395:GLU:N	2.53	0.42
1:F:1687:PHE:CE1	1:F:1723:GLU:HG2	2.55	0.42
1:B:2889:ILE:HG13	1:B:2922:LEU:HD13	2.02	0.42
1:D:1656:LYS:N	1:D:1657:PRO:HD2	2.35	0.42
1:A:2891:LYS:HZ2	1:A:2903:GLU:HG2	1.84	0.42
1:A:2300:PHE:HZ	1:A:2398:LEU:HB3	1.85	0.42
1:A:307:ILE:HG22	1:A:311:TRP:CE2	2.54	0.42
1:F:78:GLU:HB2	1:F:176:VAL:HG21	2.01	0.42
1:D:2503:LYS:HG3	1:D:2513:TYR:HB2	2.02	0.42
1:E:210:VAL:HG22	1:E:287:PHE:HD1	1.83	0.42
1:F:2452:ASP:CG	1:F:2453:LEU:H	2.23	0.42
1:E:2452:ASP:CG	1:E:2453:LEU:H	2.23	0.42
1:E:1120:GLU:HA	1:E:1125:VAL:CG2	2.50	0.42
1:B:1228:VAL:HB	1:B:1311:PHE:HB2	2.02	0.42
1:A:2563:LEU:HD21	1:A:2567:PHE:HB2	2.02	0.42
1:C:2620:THR:OG1	1:C:2791:ARG:NH2	2.52	0.42
1:C:2354:SER:O	1:C:2358:GLU:HG3	2.20	0.42
1:D:2530:TYR:O	1:D:2533:ALA:N	2.52	0.42
1:A:2032:VAL:HG11	1:E:2032:VAL:HG11	2.00	0.42
1:A:2786:ASP:OD2	1:A:2789:MET:HG2	2.19	0.42
1:E:885:GLU:HG2	1:E:887:ASP:H	1.84	0.42
1:C:1275:ALA:HB2	1:C:1311:PHE:CE2	2.55	0.42
1:C:2449:GLU:CG	1:C:2449:GLU:O	2.68	0.42
1:B:2141:VAL:HG22	1:B:2238:PHE:HD2	1.85	0.42
1:B:107:LEU:HD13	1:B:113:VAL:HB	2.01	0.42
1:C:2695:MET:HG3	1:C:2696:TYR:N	2.34	0.42
1:A:885:GLU:HG2	1:A:887:ASP:H	1.84	0.42
1:F:2444:PRO:HB2	1:F:2988:PRO:HB3	2.01	0.42
1:D:2695:MET:HG3	1:D:2696:TYR:N	2.34	0.42
1:C:2892:HIS:HA	1:C:2942:GLN:HE22	1.85	0.42
1:E:928:ALA:HB1	1:E:931:VAL:CB	2.50	0.42
1:E:2911:ALA:O	1:E:2916:ARG:HB2	2.19	0.42
1:A:2805:ASP:OD2	1:A:2807:ARG:HB2	2.20	0.42
1:B:2014:SER:N	1:C:2591:ARG:HH12	2.16	0.42
1:E:2244:ARG:HG2	1:E:2245:VAL:N	2.34	0.42
1:E:668:THR:HG23	1:E:683:GLY:HA3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2244:ARG:HG2	1:B:2245:VAL:N	2.34	0.42
1:E:613:GLY:HA2	2:E:4000:FMN:O5'	2.19	0.42
1:B:669:LYS:O	1:B:682:ASN:HB3	2.20	0.42
1:C:2300:PHE:HZ	1:C:2398:LEU:HB3	1.85	0.42
1:E:2889:ILE:HG13	1:E:2922:LEU:HD13	2.02	0.42
1:E:2889:ILE:HB	1:E:2924:ILE:HG12	2.01	0.42
1:E:1656:LYS:N	1:E:1657:PRO:HD2	2.35	0.42
1:E:2957:PRO:HB3	1:E:2980:PRO:N	2.35	0.42
1:A:341:THR:HG23	1:A:344:HIS:ND1	2.34	0.42
1:A:756:LEU:HD13	1:A:859:PHE:CD2	2.55	0.42
1:B:2452:ASP:CG	1:B:2453:LEU:H	2.23	0.42
1:A:1133:VAL:N	1:A:1193:ALA:O	2.48	0.42
1:B:856:PRO:HG2	1:B:874:ASP:HB2	2.00	0.42
1:D:2512:TRP:O	1:D:2520:LEU:HD12	2.19	0.42
1:D:2354:SER:O	1:D:2358:GLU:HG3	2.20	0.42
1:D:1611:ILE:HG23	1:D:1624:THR:HA	2.02	0.42
1:B:2428:PRO:O	1:B:2428:PRO:CG	2.67	0.42
1:A:2449:GLU:CG	1:A:2449:GLU:O	2.68	0.42
1:D:1228:VAL:HB	1:D:1311:PHE:HB2	2.02	0.42
1:D:1275:ALA:HB2	1:D:1311:PHE:CE2	2.55	0.42
1:C:1662:ARG:HG3	1:C:1663:LYS:N	2.34	0.42
1:B:1120:GLU:HA	1:B:1125:VAL:CG2	2.50	0.42
1:E:2584:ASP:O	1:E:2586:GLU:N	2.53	0.42
1:C:1021:LEU:HB3	1:C:1034:GLU:HG2	2.01	0.42
1:D:1491:ASP:HB2	1:D:1495:ARG:HB2	2.02	0.42
1:F:970:ILE:O	1:F:974:THR:HG22	2.20	0.42
1:F:928:ALA:HB1	1:F:931:VAL:CB	2.50	0.42
1:A:2701:LEU:HD23	1:F:2558:LEU:HB2	2.02	0.42
1:A:2610:ARG:HD2	1:F:2558:LEU:HD11	2.01	0.42
1:C:2805:ASP:OD2	1:C:2807:ARG:HB2	2.20	0.42
1:D:436:THR:OG1	1:D:437:PRO:HD3	2.19	0.42
1:F:2805:ASP:OD2	1:F:2807:ARG:HB2	2.20	0.42
1:A:2845:PHE:N	1:A:3003:SER:O	2.46	0.42
1:D:1580:PRO:O	1:D:1583:SER:OG	2.23	0.42
1:C:1084:THR:CG2	1:C:1274:ALA:HA	2.49	0.42
1:D:2297:ARG:HH22	1:D:2391:LYS:HZ3	1.68	0.42
1:D:585:HIS:HD2	1:D:586:SER:H	1.62	0.42
1:E:1684:ASP:HA	1:E:1687:PHE:HD2	1.82	0.42
1:D:709:LEU:HD21	1:D:872:ARG:NE	2.34	0.42
1:F:2800:PHE:CZ	1:F:2812:LEU:HD13	2.55	0.42
1:D:2800:PHE:CZ	1:D:2812:LEU:HD13	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:488:ASN:OD1	1:F:523:SER:OG	2.34	0.42
1:B:2614:LYS:HZ2	1:E:2583:PHE:HB2	1.85	0.42
1:D:2300:PHE:HZ	1:D:2398:LEU:HB3	1.85	0.42
1:D:2961:LEU:HD22	1:D:2976:TRP:HD1	1.85	0.42
1:A:1106:CYS:SG	1:A:1174:VAL:HG11	2.60	0.42
1:C:1380:ALA:HB1	1:C:1474:LEU:CD1	2.50	0.42
1:A:1317:GLY:O	1:A:1324:VAL:HG12	2.19	0.42
1:C:2503:LYS:HG3	1:C:2513:TYR:HB2	2.02	0.42
1:B:756:LEU:HD13	1:B:859:PHE:CD2	2.55	0.42
1:E:1228:VAL:HB	1:E:1311:PHE:HB2	2.02	0.42
1:B:2286:ARG:HD3	1:B:2331:SER:OG	2.20	0.42
1:A:1120:GLU:HA	1:A:1125:VAL:CG2	2.50	0.42
1:F:2620:THR:OG1	1:F:2791:ARG:NH2	2.53	0.42
1:E:2055:VAL:HG22	1:E:2194:TRP:CD1	2.55	0.42
1:B:2892:HIS:HA	1:B:2942:GLN:HE22	1.85	0.42
1:E:2354:SER:O	1:E:2358:GLU:HG3	2.20	0.42
1:A:1275:ALA:O	1:A:1279:VAL:HG23	2.20	0.42
1:C:107:LEU:HD13	1:C:113:VAL:HB	2.01	0.42
1:B:2786:ASP:OD2	1:B:2789:MET:HG2	2.19	0.42
1:D:2096:VAL:CG1	1:D:2097:ALA:N	2.82	0.41
1:C:795:HIS:NE2	1:C:797:GLN:HB2	2.35	0.41
1:B:2701:LEU:HD23	1:E:2558:LEU:HB2	2.02	0.41
1:D:1412:HIS:HD2	1:D:1413:PRO:CD	2.31	0.41
1:B:1399:ASN:HA	1:B:1400:PRO:HD3	1.86	0.41
1:D:70:SER:HG	1:D:142:ARG:HH22	1.64	0.41
1:C:1637:VAL:HA	1:C:1638:PRO:HD2	1.91	0.41
1:F:45:ALA:O	1:F:351:ILE:HA	2.20	0.41
1:D:2591:ARG:HH12	1:F:2014:SER:H	1.65	0.41
1:A:668:THR:HG23	1:A:683:GLY:HA3	2.02	0.41
1:E:2297:ARG:HH12	1:E:2391:LYS:NZ	2.17	0.41
1:D:669:LYS:O	1:D:682:ASN:HB3	2.20	0.41
1:C:2800:PHE:CZ	1:C:2812:LEU:HD13	2.55	0.41
1:E:669:LYS:O	1:E:682:ASN:HB3	2.20	0.41
1:F:2891:LYS:NZ	1:F:2903:GLU:HB3	2.35	0.41
1:F:2889:ILE:HG13	1:F:2922:LEU:HD13	2.02	0.41
1:F:1619:VAL:HA	1:F:1620:PRO:HD2	1.80	0.41
1:D:2889:ILE:HG13	1:D:2922:LEU:HD13	2.02	0.41
1:E:2810:GLY:HA2	1:E:2896:THR:HG22	2.01	0.41
1:C:1733:ASN:H	1:C:1737:ASP:HB2	1.83	0.41
1:D:417:LEU:HD21	1:D:625:LEU:HD21	2.02	0.41
1:C:369:ARG:HA	1:C:369:ARG:HD2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2452:ASP:CG	1:D:2453:LEU:N	2.73	0.41
1:B:1706:LYS:HA	1:B:1735:GLU:HG3	2.02	0.41
1:B:1117:ALA:HA	1:B:1120:GLU:HB2	2.01	0.41
1:A:1117:ALA:HA	1:A:1120:GLU:HB2	2.01	0.41
1:F:2584:ASP:O	1:F:2586:GLU:N	2.53	0.41
1:D:211:THR:HB	1:D:286:VAL:HB	2.01	0.41
1:A:266:ALA:O	1:A:270:GLU:HG3	2.20	0.41
1:E:1491:ASP:HB2	1:E:1495:ARG:HB2	2.02	0.41
1:C:266:ALA:O	1:C:270:GLU:HG3	2.20	0.41
1:B:2620:THR:OG1	1:B:2791:ARG:NH2	2.53	0.41
1:D:50:GLY:O	1:D:53:SER:OG	2.36	0.41
1:D:2584:ASP:O	1:D:2586:GLU:N	2.53	0.41
1:F:1611:ILE:HG23	1:F:1624:THR:HA	2.02	0.41
1:F:266:ALA:O	1:F:270:GLU:HG3	2.20	0.41
1:E:1460:ALA:O	1:E:1464:VAL:HG22	2.20	0.41
1:B:2354:SER:O	1:B:2358:GLU:HG3	2.20	0.41
1:E:2294:SER:HB3	1:E:2310:LYS:HB2	2.02	0.41
1:E:2096:VAL:CG1	1:E:2097:ALA:N	2.82	0.41
1:D:970:ILE:O	1:D:974:THR:HG22	2.20	0.41
1:E:795:HIS:NE2	1:E:797:GLN:HB2	2.35	0.41
1:A:928:ALA:HB1	1:A:931:VAL:CB	2.50	0.41
1:B:2702:GLY:HA3	1:E:2557:LEU:CG	2.46	0.41
1:C:2558:LEU:HB2	1:D:2701:LEU:HD23	2.02	0.41
1:D:479:LEU:HD21	1:D:485:ILE:HD11	2.02	0.41
1:D:2805:ASP:OD2	1:D:2807:ARG:HB2	2.20	0.41
1:D:2846:ALA:O	1:D:2859:GLY:HA3	2.20	0.41
1:F:1637:VAL:HA	1:F:1638:PRO:HD2	1.91	0.41
1:D:2710:LEU:HD12	1:D:2713:VAL:HG21	2.03	0.41
1:A:613:GLY:HA2	2:A:4000:FMN:O5'	2.19	0.41
1:D:1095:LEU:HD23	1:D:1098:VAL:HA	2.02	0.41
1:B:1687:PHE:CE1	1:B:1723:GLU:HG2	2.55	0.41
1:A:1687:PHE:CE1	1:A:1723:GLU:HG2	2.55	0.41
1:B:393:VAL:O	1:B:395:GLU:N	2.52	0.41
1:D:393:VAL:O	1:D:395:GLU:N	2.52	0.41
1:D:1660:LEU:HD23	1:D:1660:LEU:HA	1.85	0.41
1:A:1703:ILE:HG22	1:A:1704:GLY:H	1.85	0.41
1:D:1380:ALA:HB1	1:D:1474:LEU:CD1	2.50	0.41
1:C:2492:VAL:HG12	1:C:2526:ILE:HG22	2.02	0.41
1:E:1380:ALA:HB1	1:E:1474:LEU:CD1	2.50	0.41
1:C:2808:ARG:HH21	1:C:2901:PRO:HD3	1.85	0.41
1:B:1380:ALA:HB1	1:B:1474:LEU:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:78:GLU:HB2	1:E:176:VAL:HG21	2.01	0.41
1:D:756:LEU:HD13	1:D:859:PHE:CD2	2.55	0.41
1:F:1280:THR:O	1:F:1288:PRO:HB3	2.20	0.41
1:F:2452:ASP:CG	1:F:2453:LEU:N	2.73	0.41
1:D:2299:MET:H	1:D:2299:MET:HG2	1.68	0.41
1:D:1275:ALA:O	1:D:1279:VAL:HG23	2.20	0.41
1:D:53:SER:HA	1:D:359:ILE:HG13	2.01	0.41
1:A:1611:ILE:HG23	1:A:1624:THR:HA	2.02	0.41
1:D:160:GLN:HA	1:D:329:ILE:HD13	2.03	0.41
1:B:2055:VAL:HG22	1:B:2194:TRP:CD1	2.55	0.41
1:A:2555:SER:HA	1:A:2556:PRO:HD2	1.85	0.41
1:F:1013:THR:CG2	1:F:1014:TRP:H	1.96	0.41
1:C:2610:ARG:HD2	1:D:2558:LEU:HD11	2.01	0.41
1:E:2610:ARG:NH1	1:E:2700:LEU:HD11	2.25	0.41
1:E:2846:ALA:O	1:E:2859:GLY:HA3	2.20	0.41
1:C:70:SER:HG	1:C:142:ARG:NH2	2.16	0.41
1:E:511:ARG:CB	1:E:540:ASN:HB2	2.46	0.41
1:C:202:GLY:O	1:C:289:PRO:HD2	2.21	0.41
1:F:2297:ARG:HH22	1:F:2391:LYS:HZ3	1.67	0.41
1:F:2134:TYR:HB3	1:F:2189:PHE:HD2	1.85	0.41
1:C:2205:ASP:O	1:C:2209:LEU:HB2	2.21	0.41
1:F:393:VAL:O	1:F:395:GLU:N	2.53	0.41
1:E:1687:PHE:CE1	1:E:1723:GLU:HG2	2.55	0.41
1:C:1703:ILE:HG22	1:C:1704:GLY:H	1.85	0.41
1:B:1703:ILE:HG22	1:B:1704:GLY:H	1.85	0.41
1:B:2891:LYS:HZ1	1:B:2903:GLU:HB3	1.85	0.41
1:A:1656:LYS:N	1:A:1657:PRO:HD2	2.35	0.41
1:E:2800:PHE:CZ	1:E:2812:LEU:HD13	2.55	0.41
1:E:341:THR:HG23	1:E:344:HIS:ND1	2.34	0.41
1:A:78:GLU:HB2	1:A:176:VAL:HG21	2.01	0.41
1:E:2503:LYS:HG3	1:E:2513:TYR:HB2	2.02	0.41
1:F:2296:ASN:ND2	1:F:2395:THR:HG21	2.34	0.41
1:C:53:SER:HA	1:C:359:ILE:HG13	2.01	0.41
1:D:1706:LYS:HA	1:D:1735:GLU:HG3	2.03	0.41
1:F:957:LEU:O	1:F:1034:GLU:HB2	2.20	0.41
1:C:1706:LYS:HA	1:C:1735:GLU:HG3	2.03	0.41
1:A:53:SER:HA	1:A:359:ILE:HG13	2.01	0.41
1:C:1228:VAL:HB	1:C:1311:PHE:HB2	2.02	0.41
1:F:1460:ALA:O	1:F:1464:VAL:HG22	2.20	0.41
1:A:2584:ASP:O	1:A:2586:GLU:N	2.53	0.41
1:F:885:GLU:HG2	1:F:887:ASP:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:160:GLN:HA	1:C:329:ILE:HD13	2.02	0.41
1:A:2294:SER:HB3	1:A:2310:LYS:HB2	2.02	0.41
1:F:1228:VAL:HB	1:F:1311:PHE:HB2	2.02	0.41
1:A:107:LEU:HD13	1:A:113:VAL:HB	2.02	0.41
1:D:2449:GLU:CG	1:D:2449:GLU:O	2.68	0.41
1:E:2449:GLU:CG	1:E:2449:GLU:O	2.68	0.41
1:B:1491:ASP:HB2	1:B:1495:ARG:HB2	2.02	0.41
1:E:559:SER:O	1:E:563:ILE:HG12	2.20	0.41
1:F:2354:SER:O	1:F:2358:GLU:HG3	2.20	0.41
1:B:160:GLN:HA	1:B:329:ILE:HD13	2.02	0.41
1:A:160:GLN:HA	1:A:329:ILE:HD13	2.02	0.41
1:E:970:ILE:O	1:E:974:THR:HG22	2.20	0.41
1:A:795:HIS:NE2	1:A:797:GLN:HB2	2.35	0.41
1:B:795:HIS:NE2	1:B:797:GLN:HB2	2.35	0.41
1:C:42:GLU:HA	1:C:43:PRO:HD3	1.91	0.41
1:B:436:THR:OG1	1:B:437:PRO:HD3	2.19	0.41
1:C:2557:LEU:HB3	1:C:2613:ARG:HB2	2.01	0.41
1:E:1412:HIS:CD2	1:E:1413:PRO:HD2	2.49	0.41
1:A:45:ALA:O	1:A:351:ILE:HA	2.20	0.41
1:C:668:THR:HG23	1:C:683:GLY:HA3	2.02	0.41
1:D:1087:PHE:CZ	1:E:203:ASP:OD2	2.72	0.41
1:A:618:PRO:HB3	1:A:915:PHE:HA	2.02	0.41
1:D:1533:VAL:N	1:D:1543:ALA:O	2.52	0.41
1:B:2180:LYS:HZ1	1:B:2962:ASP:HB3	1.84	0.41
1:D:2180:LYS:HZ1	1:D:2962:ASP:HB3	1.84	0.41
1:E:336:TRP:HE3	1:E:339:GLU:OE2	2.03	0.41
1:C:488:ASN:OD1	1:C:523:SER:OG	2.34	0.41
1:E:393:VAL:O	1:E:395:GLU:N	2.53	0.41
1:A:2800:PHE:CE1	1:A:2812:LEU:HD22	2.50	0.41
1:F:1656:LYS:N	1:F:1657:PRO:HD2	2.35	0.41
1:E:1703:ILE:HG22	1:E:1704:GLY:H	1.85	0.41
1:B:2961:LEU:HD22	1:B:2976:TRP:HD1	1.85	0.41
1:E:1106:CYS:SG	1:E:1174:VAL:HG11	2.60	0.41
1:A:2735:HIS:O	1:F:2737:VAL:HG23	2.21	0.41
1:F:1380:ALA:HB1	1:F:1474:LEU:CD1	2.50	0.41
1:B:417:LEU:HD21	1:B:625:LEU:HD21	2.02	0.41
1:B:2715:PRO:HD2	1:E:2737:VAL:HG11	2.02	0.41
1:F:1462:ALA:HB2	1:F:1468:TYR:CE1	2.56	0.41
1:D:2452:ASP:CG	1:D:2453:LEU:H	2.23	0.41
1:F:1120:GLU:HA	1:F:1125:VAL:CG2	2.50	0.41
1:C:957:LEU:O	1:C:1034:GLU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1611:ILE:HG23	1:B:1624:THR:HA	2.02	0.41
1:A:2141:VAL:HG22	1:A:2238:PHE:HD2	1.85	0.41
1:D:2563:LEU:HD21	1:D:2567:PHE:HB2	2.02	0.41
1:C:2584:ASP:O	1:C:2586:GLU:N	2.53	0.41
1:E:2563:LEU:HD21	1:E:2567:PHE:HB2	2.02	0.41
1:C:928:ALA:HB1	1:C:931:VAL:CB	2.50	0.41
1:B:2919:GLY:O	1:B:2921:PRO:HD3	2.21	0.41
1:E:2919:GLY:O	1:E:2921:PRO:HD3	2.21	0.41
1:E:793:ARG:HH12	1:E:2523:GLU:CD	2.24	0.41
1:B:2700:LEU:HD22	1:E:2697:HIS:CD2	2.43	0.41
1:C:2770:LEU:CB	1:C:2815:GLN:HB3	2.51	0.41
1:C:2710:LEU:HD12	1:C:2713:VAL:HG21	2.03	0.41
1:B:2014:SER:H	1:C:2591:ARG:NH1	2.19	0.41
1:D:1087:PHE:HD2	1:E:117:LYS:HZ1	1.67	0.41
1:E:618:PRO:HB3	1:E:915:PHE:HA	2.02	0.41
1:F:202:GLY:O	1:F:289:PRO:HD2	2.20	0.41
1:E:2134:TYR:HB3	1:E:2189:PHE:HD2	1.85	0.41
1:C:587:TRP:CZ2	1:C:694:ASP:OD2	2.74	0.41
1:C:2134:TYR:HB3	1:C:2189:PHE:HD2	1.85	0.41
1:B:360:LEU:HA	1:B:363:LEU:HB3	2.02	0.41
1:A:1095:LEU:HD23	1:A:1098:VAL:HA	2.03	0.41
1:C:709:LEU:HD11	1:C:872:ARG:CZ	2.51	0.41
1:E:1619:VAL:HA	1:E:1620:PRO:HD2	1.80	0.41
1:A:1380:ALA:HB1	1:A:1474:LEU:CD1	2.50	0.41
1:E:745:THR:OG1	1:E:834:GLU:O	2.19	0.41
1:C:2737:VAL:HG11	1:D:2715:PRO:HD2	2.02	0.41
1:E:180:ALA:O	1:E:184:LEU:HG	2.21	0.41
1:E:2808:ARG:HH21	1:E:2901:PRO:HD3	1.85	0.41
1:D:2808:ARG:HH21	1:D:2901:PRO:HD3	1.85	0.41
1:A:417:LEU:HD21	1:A:625:LEU:HD21	2.02	0.41
1:C:358:ASP:OD2	1:C:361:THR:HB	2.21	0.41
1:B:78:GLU:HB2	1:B:176:VAL:HG21	2.01	0.41
1:F:756:LEU:HD13	1:F:859:PHE:CD2	2.55	0.41
1:A:2296:ASN:ND2	1:A:2395:THR:HG21	2.34	0.41
1:F:233:LEU:HB3	1:F:251:THR:OG1	2.21	0.41
1:B:2483:VAL:HG13	1:B:2954:VAL:HG11	2.03	0.41
1:E:233:LEU:HB3	1:E:251:THR:OG1	2.21	0.41
1:E:1247:ASN:HA	1:E:1248:PRO:HD3	1.83	0.41
1:F:2449:GLU:CG	1:F:2449:GLU:O	2.68	0.41
1:D:266:ALA:O	1:D:270:GLU:HG3	2.20	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:2919:GLY:O	1:A:2921:PRO:HD3	2.21	0.41
1:D:2919:GLY:O	1:D:2921:PRO:HD3	2.21	0.41
1:B:2611:VAL:HA	1:B:2612:PRO:HD3	1.86	0.41
1:D:436:THR:HG22	1:D:460:GLY:HA3	2.03	0.41
1:A:2846:ALA:O	1:A:2859:GLY:HA3	2.20	0.41
1:D:1237:ARG:HG2	1:D:1237:ARG:HH11	1.86	0.41
1:C:580:ARG:HD3	1:C:896:ALA:HB3	2.01	0.41
1:A:374:GLY:C	1:A:375:ILE:HG13	2.41	0.41
1:C:1008:VAL:CG1	1:C:1008:VAL:O	2.67	0.41
1:E:2014:SER:H	1:F:2591:ARG:NH1	2.19	0.41
1:E:202:GLY:O	1:E:289:PRO:HD2	2.21	0.41
1:C:336:TRP:HE3	1:C:339:GLU:OE2	2.03	0.41
1:F:587:TRP:CZ2	1:F:694:ASP:OD2	2.74	0.41
1:B:2205:ASP:O	1:B:2209:LEU:HB2	2.21	0.41
1:E:1095:LEU:HD23	1:E:1098:VAL:HA	2.02	0.41
1:D:1352:PHE:HA	1:D:1353:PRO:HD3	1.72	0.41
1:B:709:LEU:HD11	1:B:872:ARG:CZ	2.51	0.41
1:B:2891:LYS:HB2	1:B:2893:ASP:OD2	2.21	0.41
1:B:2300:PHE:HZ	1:B:2398:LEU:HB3	1.85	0.41
1:E:2891:LYS:NZ	1:E:2903:GLU:HB3	2.35	0.41
1:C:417:LEU:HD21	1:C:625:LEU:HD21	2.02	0.41
1:A:358:ASP:OD2	1:A:361:THR:HB	2.21	0.41
1:A:2452:ASP:CG	1:A:2453:LEU:H	2.23	0.41
1:E:1462:ALA:HB2	1:E:1468:TYR:CE1	2.56	0.41
1:E:1706:LYS:HA	1:E:1735:GLU:HG3	2.03	0.41
1:A:1504:ARG:HA	1:A:1505:PRO:HD2	1.93	0.41
1:E:1021:LEU:HB3	1:E:1034:GLU:HG2	2.01	0.41
1:B:957:LEU:O	1:B:1034:GLU:HB2	2.20	0.41
1:A:1275:ALA:HB2	1:A:1311:PHE:CE2	2.55	0.41
1:F:1275:ALA:HB2	1:F:1311:PHE:CE2	2.55	0.41
1:E:1611:ILE:HG23	1:E:1624:THR:HA	2.02	0.41
1:F:1662:ARG:HG3	1:F:1663:LYS:N	2.34	0.41
1:F:1491:ASP:HB2	1:F:1495:ARG:HB2	2.02	0.41
1:C:2400:ASP:OD1	1:C:2400:ASP:N	2.45	0.41
1:E:266:ALA:O	1:E:270:GLU:HG3	2.20	0.41
1:E:2013:LEU:HA	1:E:2013:LEU:HD23	1.87	0.41
1:A:233:LEU:HB3	1:A:251:THR:OG1	2.21	0.41
1:F:2563:LEU:HD21	1:F:2567:PHE:HB2	2.02	0.41
1:D:107:LEU:HD13	1:D:113:VAL:HB	2.02	0.41
1:D:795:HIS:NE2	1:D:797:GLN:HB2	2.35	0.41
1:F:795:HIS:NE2	1:F:797:GLN:HB2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:928:ALA:HB1	1:D:931:VAL:CB	2.50	0.41
1:F:793:ARG:HH12	1:F:2523:GLU:CD	2.24	0.41
1:B:2770:LEU:CB	1:B:2815:GLN:HB3	2.51	0.41
1:D:336:TRP:HE3	1:D:339:GLU:OE2	2.03	0.41
1:D:374:GLY:C	1:D:375:ILE:HG13	2.41	0.41
1:B:1008:VAL:O	1:B:1008:VAL:CG1	2.68	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:1084:THR:CG2	1:F:1274:ALA:HA	2.48	0.41
1:A:585:HIS:HB3	1:A:694:ASP:HB2	2.03	0.41
1:C:1687:PHE:CE1	1:C:1723:GLU:HG2	2.55	0.41
1:C:438:THR:HA	1:C:880:HIS:CE1	2.51	0.41
1:E:438:THR:HA	1:E:880:HIS:CE1	2.51	0.41
1:A:488:ASN:OD1	1:A:523:SER:OG	2.34	0.41
1:A:2889:ILE:HB	1:A:2924:ILE:HG12	2.01	0.41
1:E:709:LEU:HD21	1:E:872:ARG:NE	2.34	0.41
1:A:2961:LEU:HD22	1:A:2976:TRP:HD1	1.85	0.41
1:C:2665:THR:HA	1:C:2666:PRO:HD3	1.86	0.41
1:A:1462:ALA:HB2	1:A:1468:TYR:CE1	2.56	0.41
1:D:2141:VAL:HG22	1:D:2238:PHE:CD2	2.56	0.41
1:C:1275:ALA:O	1:C:1279:VAL:HG23	2.20	0.41
1:B:428:SER:HA	1:B:429:PRO:HD3	1.94	0.41
1:F:2483:VAL:HG13	1:F:2954:VAL:HG11	2.03	0.41
1:D:2620:THR:OG1	1:D:2791:ARG:NH2	2.53	0.41
1:A:1662:ARG:HG3	1:A:1663:LYS:N	2.34	0.41
1:B:2989:LEU:HD12	1:B:2989:LEU:HA	1.77	0.41
1:E:2228:LEU:HA	1:E:2228:LEU:HD23	1.86	0.41
1:F:160:GLN:HA	1:F:329:ILE:HD13	2.02	0.41
1:E:2892:HIS:HA	1:E:2942:GLN:HE22	1.85	0.41
1:A:1070:VAL:N	1:A:1152:PHE:O	2.52	0.41
1:E:2483:VAL:HG13	1:E:2954:VAL:HG11	2.03	0.41
1:A:2286:ARG:HD3	1:A:2331:SER:OG	2.20	0.41
1:D:1013:THR:CG2	1:D:1014:TRP:N	2.58	0.41
1:D:2098:THR:HG23	1:D:2099:GLN:N	2.36	0.41
1:B:970:ILE:O	1:B:974:THR:HG22	2.20	0.41
1:D:795:HIS:HE2	1:D:797:GLN:HB2	1.86	0.41
1:F:2919:GLY:O	1:F:2921:PRO:HD3	2.21	0.41
1:C:2558:LEU:HD11	1:D:2610:ARG:HD2	2.01	0.41
1:D:1695:LEU:HD12	1:D:1695:LEU:HA	1.71	0.41
1:E:436:THR:OG1	1:E:437:PRO:HD3	2.19	0.41
1:B:1400:PRO:O	1:B:1415:GLY:HA2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1412:HIS:HD2	1:E:1413:PRO:CD	2.31	0.41
1:C:1399:ASN:HA	1:C:1400:PRO:HD3	1.86	0.41
1:C:1400:PRO:O	1:C:1415:GLY:HA2	2.21	0.41
1:B:618:PRO:HB3	1:B:915:PHE:HA	2.02	0.41
1:D:1687:PHE:CE1	1:D:1723:GLU:HG2	2.55	0.41
1:C:2297:ARG:HH22	1:C:2391:LYS:HZ3	1.68	0.41
1:F:2891:LYS:HB2	1:F:2893:ASP:OD2	2.21	0.41
1:C:2891:LYS:HB2	1:C:2893:ASP:OD2	2.21	0.41
1:E:2961:LEU:HD22	1:E:2976:TRP:HD1	1.85	0.41
1:F:1703:ILE:HG22	1:F:1704:GLY:H	1.85	0.41
1:D:78:GLU:HB2	1:D:176:VAL:HG21	2.02	0.41
1:C:1106:CYS:SG	1:C:1174:VAL:HG11	2.60	0.41
1:C:2735:HIS:O	1:D:2737:VAL:HG23	2.21	0.41
1:A:2715:PRO:HD2	1:F:2737:VAL:HG11	2.02	0.41
1:C:1120:GLU:HA	1:C:1125:VAL:CG2	2.50	0.41
1:F:1275:ALA:O	1:F:1279:VAL:HG23	2.20	0.41
1:D:594:LEU:O	1:D:598:TYR:HB2	2.21	0.41
1:A:954:PRO:O	1:A:965:ASN:N	2.52	0.41
1:B:266:ALA:O	1:B:270:GLU:HG3	2.20	0.41
1:D:1460:ALA:O	1:D:1464:VAL:HG22	2.20	0.41
1:D:3062:HIS:H	1:D:3066:GLU:HG3	1.86	0.41
1:D:559:SER:O	1:D:563:ILE:HG12	2.20	0.41
1:C:1460:ALA:O	1:C:1464:VAL:HG22	2.20	0.41
1:D:2405:MET:O	1:D:2409:ALA:HB3	2.21	0.41
1:C:2096:VAL:CG1	1:C:2097:ALA:N	2.82	0.41
1:B:2098:THR:HG23	1:B:2099:GLN:N	2.36	0.41
1:B:1017:ILE:HG12	1:B:1045:VAL:HG11	2.03	0.41
1:B:795:HIS:HE2	1:B:797:GLN:HB2	1.86	0.41
1:C:2919:GLY:O	1:C:2921:PRO:HD3	2.21	0.41
1:E:2674:HIS:HA	1:E:2675:PRO:HD2	1.88	0.41
1:D:42:GLU:HA	1:D:43:PRO:HD3	1.91	0.41
1:C:2701:LEU:HD23	1:D:2558:LEU:HB2	2.02	0.41
1:A:2558:LEU:HB2	1:F:2701:LEU:HD23	2.02	0.41
1:E:273:ARG:HD2	1:E:282:VAL:CG1	2.51	0.41
1:F:2611:VAL:HA	1:F:2612:PRO:HD3	1.86	0.41
1:A:2770:LEU:CB	1:A:2815:GLN:HB3	2.51	0.41
1:C:2647:VAL:HA	1:C:2650:TRP:CD1	2.52	0.41
1:A:479:LEU:HD21	1:A:485:ILE:HD11	2.02	0.41
1:F:1237:ARG:HH11	1:F:1237:ARG:HG2	1.86	0.41
1:B:1237:ARG:HG2	1:B:1237:ARG:HH11	1.86	0.41
1:B:2212:TRP:O	1:B:2229:LYS:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1634:ARG:NH1	1:C:1639:ALA:H	2.11	0.41
1:C:133:GLN:O	1:C:137:VAL:HG23	2.21	0.41
1:C:2212:TRP:O	1:C:2229:LYS:HB3	2.21	0.41
1:D:1008:VAL:O	1:D:1008:VAL:CG1	2.67	0.41
1:B:374:GLY:C	1:B:375:ILE:HG13	2.41	0.41
1:D:2591:ARG:NH1	1:F:2014:SER:H	2.18	0.41
1:A:202:GLY:O	1:A:289:PRO:HD2	2.21	0.41
1:E:2710:LEU:HD12	1:E:2713:VAL:HG21	2.03	0.41
1:A:2014:SER:H	1:B:2591:ARG:NH1	2.19	0.41
1:A:2710:LEU:HD12	1:A:2713:VAL:HG21	2.03	0.41
1:C:618:PRO:HB3	1:C:915:PHE:HA	2.02	0.41
1:E:585:HIS:HB3	1:E:694:ASP:HB2	2.03	0.41
1:F:2205:ASP:O	1:F:2209:LEU:HB2	2.21	0.41
1:E:360:LEU:HA	1:E:363:LEU:HB3	2.02	0.41
1:F:1095:LEU:HD23	1:F:1098:VAL:HA	2.02	0.41
1:A:2134:TYR:HB3	1:A:2189:PHE:HD2	1.85	0.41
1:D:587:TRP:CZ2	1:D:694:ASP:OD2	2.74	0.41
1:D:1353:PRO:HB2	1:D:1707:SER:HB2	2.03	0.41
1:C:1719:LEU:O	1:C:1723:GLU:HB3	2.21	0.41
1:C:1986:LEU:HA	1:C:1989:PHE:CD2	2.56	0.41
1:A:2800:PHE:CZ	1:A:2812:LEU:HD13	2.55	0.41
1:F:669:LYS:O	1:F:682:ASN:HB3	2.20	0.41
1:A:669:LYS:O	1:A:682:ASN:HB3	2.20	0.41
1:E:709:LEU:HD11	1:E:872:ARG:CZ	2.51	0.41
1:C:2891:LYS:NZ	1:C:2903:GLU:HB3	2.35	0.41
1:E:2300:PHE:HZ	1:E:2398:LEU:HB3	1.85	0.41
1:C:2961:LEU:HD22	1:C:2976:TRP:HD1	1.85	0.41
1:F:2961:LEU:HD22	1:F:2976:TRP:HD1	1.85	0.41
1:D:2468:GLU:OE2	1:D:2478:ARG:NH2	2.48	0.41
1:D:2422:GLU:CG	1:D:2422:GLU:O	2.69	0.41
1:E:2492:VAL:HG12	1:E:2526:ILE:HG22	2.03	0.41
1:C:2715:PRO:HD2	1:D:2737:VAL:HG11	2.02	0.41
1:B:2808:ARG:HH21	1:B:2901:PRO:HD3	1.85	0.41
1:C:2737:VAL:HG23	1:D:2735:HIS:O	2.21	0.41
1:A:2422:GLU:CG	1:A:2422:GLU:O	2.69	0.41
1:A:180:ALA:O	1:A:184:LEU:HG	2.21	0.41
1:B:2422:GLU:O	1:B:2422:GLU:CG	2.69	0.41
1:A:2503:LYS:HG3	1:A:2513:TYR:HB2	2.02	0.41
1:B:358:ASP:OD2	1:B:361:THR:HB	2.21	0.41
1:E:369:ARG:HA	1:E:369:ARG:HD2	1.85	0.41
1:E:278:ARG:HD2	1:E:674:TRP:CE3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:278:ARG:HD2	1:B:674:TRP:CE3	2.56	0.41
1:D:278:ARG:HD2	1:D:674:TRP:CE3	2.56	0.41
1:C:756:LEU:HD13	1:C:859:PHE:CD2	2.55	0.41
1:C:2452:ASP:CG	1:C:2453:LEU:H	2.24	0.41
1:F:1706:LYS:HA	1:F:1735:GLU:HG3	2.03	0.41
1:B:50:GLY:O	1:B:53:SER:OG	2.36	0.41
1:E:107:LEU:HD13	1:E:113:VAL:HB	2.02	0.41
1:A:1099:PRO:HB2	1:A:1295:TRP:HE1	1.86	0.41
1:E:594:LEU:O	1:E:598:TYR:HB2	2.21	0.41
1:B:1460:ALA:O	1:B:1464:VAL:HG22	2.20	0.41
1:D:2555:SER:HA	1:D:2556:PRO:HD2	1.84	0.41
1:A:594:LEU:O	1:A:598:TYR:HB2	2.21	0.41
1:F:3057:ASP:OD1	1:F:3057:ASP:N	2.54	0.41
1:C:559:SER:O	1:C:563:ILE:HG12	2.20	0.41
1:C:2405:MET:O	1:C:2409:ALA:HB3	2.21	0.41
1:B:2405:MET:O	1:B:2409:ALA:HB3	2.21	0.41
1:E:1099:PRO:HB2	1:E:1295:TRP:HE1	1.86	0.41
1:F:2405:MET:O	1:F:2409:ALA:HB3	2.21	0.41
1:D:2010:GLN:OE1	1:D:2013:LEU:HD11	2.21	0.41
1:A:1460:ALA:O	1:A:1464:VAL:HG22	2.20	0.41
1:C:233:LEU:HB3	1:C:251:THR:OG1	2.21	0.41
1:F:2141:VAL:HG22	1:F:2238:PHE:HD2	1.85	0.41
1:E:2286:ARG:HD3	1:E:2331:SER:OG	2.20	0.41
1:D:1070:VAL:N	1:D:1152:PHE:O	2.52	0.41
1:F:594:LEU:O	1:F:598:TYR:HB2	2.21	0.41
1:B:559:SER:O	1:B:563:ILE:HG12	2.20	0.41
1:A:2354:SER:O	1:A:2358:GLU:HG3	2.20	0.41
1:F:2294:SER:HB3	1:F:2310:LYS:HB2	2.02	0.41
1:B:2444:PRO:HB2	1:B:2988:PRO:HB3	2.01	0.41
1:A:436:THR:HG22	1:A:460:GLY:HA3	2.03	0.41
1:A:1400:PRO:O	1:A:1415:GLY:HA2	2.21	0.41
1:E:1237:ARG:HG2	1:E:1237:ARG:HH11	1.86	0.41
1:A:544:ILE:O	1:A:546:HIS:N	2.41	0.41
1:A:1087:PHE:CD1	1:B:198:ILE:HG23	2.56	0.41
1:D:1087:PHE:CD1	1:E:198:ILE:HG23	2.56	0.41
1:D:198:ILE:HG23	1:F:1087:PHE:CD1	2.56	0.41
1:E:587:TRP:CZ2	1:E:694:ASP:OD2	2.74	0.41
1:C:1095:LEU:HD23	1:C:1098:VAL:HA	2.03	0.41
1:B:2889:ILE:HB	1:B:2924:ILE:HG12	2.01	0.41
1:D:1656:LYS:HE2	1:D:1660:LEU:HD21	2.03	0.41
1:E:2889:ILE:HD12	1:E:2993:LEU:HD23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1619:VAL:HA	1:D:1620:PRO:HD2	1.81	0.41
1:D:180:ALA:O	1:D:184:LEU:HG	2.21	0.41
1:D:2492:VAL:HG12	1:D:2526:ILE:HG22	2.03	0.41
1:B:2672:TRP:CZ3	1:B:2830:LYS:HG2	2.56	0.41
1:E:2672:TRP:CZ3	1:E:2830:LYS:HG2	2.56	0.41
1:C:2618:SER:HB3	1:C:2786:ASP:OD1	2.21	0.41
1:F:2618:SER:HB3	1:F:2786:ASP:OD1	2.21	0.41
1:F:50:GLY:O	1:F:53:SER:OG	2.36	0.41
1:E:2010:GLN:OE1	1:E:2013:LEU:HD11	2.21	0.41
1:F:2141:VAL:HG22	1:F:2238:PHE:CD2	2.56	0.41
1:A:2989:LEU:HA	1:A:2989:LEU:HD12	1.77	0.41
1:C:3057:ASP:OD1	1:C:3057:ASP:N	2.54	0.41
1:F:2286:ARG:HD3	1:F:2331:SER:OG	2.20	0.41
1:C:594:LEU:O	1:C:598:TYR:HB2	2.21	0.41
1:A:2892:HIS:HA	1:A:2942:GLN:HE22	1.85	0.41
1:C:2098:THR:HG23	1:C:2099:GLN:N	2.36	0.40
1:F:1017:ILE:HG12	1:F:1045:VAL:HG11	2.03	0.40
1:E:795:HIS:HE2	1:E:797:GLN:HB2	1.86	0.40
1:A:793:ARG:HH12	1:A:2523:GLU:CD	2.24	0.40
1:B:928:ALA:HB1	1:B:931:VAL:CB	2.50	0.40
1:B:2674:HIS:NE2	1:E:2865:ARG:HD2	2.37	0.40
1:B:273:ARG:HD2	1:B:282:VAL:CG1	2.51	0.40
1:A:2557:LEU:HD23	1:A:2558:LEU:N	2.37	0.40
1:E:1271:LEU:HB3	1:E:1337:MET:SD	2.61	0.40
1:D:1400:PRO:O	1:D:1415:GLY:HA2	2.21	0.40
1:F:436:THR:HG22	1:F:460:GLY:HA3	2.03	0.40
1:D:1637:VAL:HA	1:D:1638:PRO:HD2	1.91	0.40
1:C:1533:VAL:N	1:C:1543:ALA:O	2.52	0.40
1:B:668:THR:HG23	1:B:683:GLY:HA3	2.02	0.40
1:F:1533:VAL:N	1:F:1543:ALA:O	2.52	0.40
1:A:360:LEU:HA	1:A:363:LEU:HB3	2.02	0.40
1:D:1719:LEU:O	1:D:1723:GLU:HB3	2.21	0.40
1:A:709:LEU:HD11	1:A:872:ARG:CZ	2.51	0.40
1:A:2889:ILE:HD12	1:A:2993:LEU:HD23	2.03	0.40
1:B:488:ASN:OD1	1:B:523:SER:OG	2.34	0.40
1:F:709:LEU:HD11	1:F:872:ARG:CZ	2.51	0.40
1:C:2889:ILE:HD12	1:C:2993:LEU:HD23	2.03	0.40
1:E:2978:ARG:HG3	1:E:2979:GLU:HG3	2.03	0.40
1:C:2978:ARG:HG3	1:C:2979:GLU:HG3	2.03	0.40
1:E:602:ARG:NH2	1:E:641:ASP:OD1	2.28	0.40
1:E:417:LEU:HD21	1:E:625:LEU:HD21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:278:ARG:HD2	1:E:674:TRP:HE3	1.87	0.40
1:E:756:LEU:HD13	1:E:859:PHE:CD2	2.55	0.40
1:F:2672:TRP:CZ3	1:F:2830:LYS:HG2	2.56	0.40
1:C:1504:ARG:HA	1:C:1505:PRO:HD2	1.93	0.40
1:F:3062:HIS:H	1:F:3066:GLU:CG	2.35	0.40
1:D:2483:VAL:HG13	1:D:2954:VAL:HG11	2.03	0.40
1:E:160:GLN:HA	1:E:329:ILE:HD13	2.02	0.40
1:B:3062:HIS:H	1:B:3066:GLU:HG3	1.86	0.40
1:B:1099:PRO:HB2	1:B:1295:TRP:HE1	1.86	0.40
1:D:369:ARG:HA	1:D:369:ARG:HD2	1.85	0.40
1:C:1491:ASP:HB2	1:C:1495:ARG:HB2	2.02	0.40
1:F:1099:PRO:HB2	1:F:1295:TRP:HE1	1.86	0.40
1:F:2892:HIS:HA	1:F:2942:GLN:HE22	1.85	0.40
1:B:793:ARG:HH12	1:B:2523:GLU:CD	2.24	0.40
1:C:793:ARG:HH12	1:C:2523:GLU:CD	2.24	0.40
1:C:273:ARG:HD2	1:C:282:VAL:CG1	2.51	0.40
1:F:1400:PRO:O	1:F:1415:GLY:HA2	2.21	0.40
1:A:2212:TRP:O	1:A:2229:LYS:HB3	2.21	0.40
1:A:133:GLN:O	1:A:137:VAL:HG23	2.21	0.40
1:D:336:TRP:HE1	1:D:364:THR:HG22	1.86	0.40
1:E:1533:VAL:N	1:E:1543:ALA:O	2.52	0.40
1:B:2134:TYR:HB3	1:B:2189:PHE:HD2	1.85	0.40
1:D:2205:ASP:O	1:D:2209:LEU:HB2	2.21	0.40
1:A:1702:GLU:OE1	1:A:1711:VAL:HG22	2.22	0.40
1:C:1353:PRO:HB2	1:C:1707:SER:HB2	2.04	0.40
1:D:709:LEU:HD11	1:D:872:ARG:CZ	2.51	0.40
1:F:438:THR:HA	1:F:880:HIS:CE1	2.51	0.40
1:F:1616:PRO:HG2	1:F:1619:VAL:HB	2.04	0.40
1:D:2961:LEU:HD13	1:D:2976:TRP:CD1	2.57	0.40
1:B:2737:VAL:HG11	1:E:2715:PRO:HD2	2.02	0.40
1:F:417:LEU:HD21	1:F:625:LEU:HD21	2.02	0.40
1:B:2735:HIS:O	1:E:2737:VAL:HG23	2.21	0.40
1:B:2503:LYS:HG3	1:B:2513:TYR:HB2	2.02	0.40
1:E:2574:GLU:HG3	1:E:2599:TRP:CE2	2.56	0.40
1:D:2574:GLU:HG3	1:D:2599:TRP:CE2	2.57	0.40
1:A:163:LEU:HD21	1:A:181:LEU:HB3	2.04	0.40
1:C:2141:VAL:HG22	1:C:2238:PHE:CD2	2.56	0.40
1:E:2141:VAL:HG22	1:E:2238:PHE:CD2	2.56	0.40
1:A:957:LEU:O	1:A:1034:GLU:HB2	2.20	0.40
1:A:1228:VAL:HB	1:A:1311:PHE:HB2	2.02	0.40
1:A:2405:MET:O	1:A:2409:ALA:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1500:LEU:HD23	1:E:1574:VAL:HG21	2.02	0.40
1:F:2346:MET:O	1:F:2349:ASN:N	2.55	0.40
1:E:1606:ASP:HA	1:E:1607:PRO:HD3	1.95	0.40
1:A:1491:ASP:HB2	1:A:1495:ARG:HB2	2.02	0.40
1:B:2836:LEU:HA	1:B:2836:LEU:HD23	1.87	0.40
1:B:1551:LEU:HA	1:B:1551:LEU:HD13	1.79	0.40
1:A:2228:LEU:HD23	1:A:2228:LEU:HA	1.86	0.40
1:A:2346:MET:O	1:A:2349:ASN:N	2.55	0.40
1:B:2346:MET:O	1:B:2349:ASN:N	2.55	0.40
1:C:2346:MET:O	1:C:2349:ASN:N	2.55	0.40
1:A:1017:ILE:HG12	1:A:1045:VAL:HG11	2.03	0.40
1:C:2700:LEU:HD22	1:D:2697:HIS:CD2	2.43	0.40
1:B:1271:LEU:HB3	1:B:1337:MET:SD	2.62	0.40
1:A:1237:ARG:HH11	1:A:1237:ARG:HG2	1.86	0.40
1:F:2212:TRP:O	1:F:2229:LYS:HB3	2.21	0.40
1:E:133:GLN:O	1:E:137:VAL:HG23	2.21	0.40
1:F:336:TRP:HE1	1:F:364:THR:HG22	1.86	0.40
1:D:2014:SER:H	1:E:2591:ARG:NH1	2.19	0.40
1:D:618:PRO:HB3	1:D:915:PHE:HA	2.02	0.40
1:F:618:PRO:HB3	1:F:915:PHE:HA	2.02	0.40
1:B:2710:LEU:HD12	1:B:2713:VAL:HG21	2.03	0.40
1:D:2753:LYS:HA	1:D:2753:LYS:HD3	1.83	0.40
1:A:1986:LEU:HA	1:A:1989:PHE:CD2	2.56	0.40
1:B:2889:ILE:HD12	1:B:2993:LEU:HD23	2.03	0.40
1:A:2891:LYS:HB2	1:A:2893:ASP:OD2	2.21	0.40
1:C:2889:ILE:HG13	1:C:2922:LEU:HD13	2.02	0.40
1:A:2978:ARG:HG3	1:A:2979:GLU:HG3	2.03	0.40
1:D:745:THR:HG22	1:D:747:LEU:N	2.37	0.40
1:B:2961:LEU:HD13	1:B:2976:TRP:CD1	2.57	0.40
1:C:1133:VAL:N	1:C:1193:ALA:O	2.48	0.40
1:F:358:ASP:OD2	1:F:361:THR:HB	2.21	0.40
1:C:278:ARG:HD2	1:C:674:TRP:HE3	1.87	0.40
1:A:278:ARG:HD2	1:A:674:TRP:CE3	2.56	0.40
1:F:381:ARG:O	1:F:385:ARG:HG3	2.22	0.40
1:E:163:LEU:HD21	1:E:181:LEU:HB3	2.04	0.40
1:A:2618:SER:HB3	1:A:2786:ASP:OD1	2.21	0.40
1:B:2141:VAL:HG22	1:B:2238:PHE:CD2	2.56	0.40
1:E:954:PRO:O	1:E:965:ASN:N	2.52	0.40
1:A:794:LEU:HD12	1:A:830:TYR:HB3	2.04	0.40
1:C:3062:HIS:H	1:C:3066:GLU:HG3	1.86	0.40
1:C:1629:PHE:O	1:C:1633:ILE:HG13	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1604:ASP:N	1:E:1604:ASP:OD1	2.55	0.40
1:F:1629:PHE:O	1:F:1633:ILE:HG13	2.22	0.40
1:C:2286:ARG:HD3	1:C:2331:SER:OG	2.20	0.40
1:B:2530:TYR:O	1:B:2533:ALA:N	2.52	0.40
1:F:795:HIS:HE2	1:F:797:GLN:HB2	1.86	0.40
1:D:793:ARG:HH12	1:D:2523:GLU:CD	2.24	0.40
1:D:2697:HIS:HE1	1:D:2773:GLU:OE2	2.05	0.40
1:D:273:ARG:HD2	1:D:282:VAL:CG1	2.51	0.40
1:F:2770:LEU:CB	1:F:2815:GLN:HB3	2.51	0.40
1:F:133:GLN:O	1:F:137:VAL:HG23	2.21	0.40
1:F:1008:VAL:CG1	1:F:1008:VAL:O	2.67	0.40
1:B:1087:PHE:CD1	1:C:198:ILE:HG23	2.56	0.40
1:A:587:TRP:CZ2	1:A:694:ASP:OD2	2.74	0.40
1:B:1095:LEU:HD13	1:B:1289:PRO:CB	2.52	0.40
1:B:1095:LEU:HD23	1:B:1098:VAL:HA	2.02	0.40
1:B:1719:LEU:O	1:B:1723:GLU:HB3	2.21	0.40
1:B:1656:LYS:HE2	1:B:1660:LEU:HD21	2.03	0.40
1:F:1656:LYS:HE2	1:F:1660:LEU:HD21	2.04	0.40
1:D:1616:PRO:HG2	1:D:1619:VAL:HB	2.04	0.40
1:A:2495:LEU:HA	1:A:2495:LEU:HD23	1.89	0.40
1:B:2492:VAL:HG12	1:B:2526:ILE:HG22	2.03	0.40
1:F:745:THR:HG22	1:F:747:LEU:N	2.37	0.40
1:A:2737:VAL:HG23	1:F:2735:HIS:O	2.21	0.40
1:B:2737:VAL:HG23	1:E:2735:HIS:O	2.21	0.40
1:B:1598:GLU:HG2	1:B:1666:ILE:HG21	2.04	0.40
1:F:541:GLU:HG3	1:F:542:VAL:N	2.37	0.40
1:E:2503:LYS:HE2	1:E:2514:ASP:O	2.22	0.40
1:F:2503:LYS:HG3	1:F:2513:TYR:HB2	2.02	0.40
1:F:180:ALA:O	1:F:184:LEU:HG	2.21	0.40
1:E:358:ASP:OD2	1:E:361:THR:HB	2.21	0.40
1:B:180:ALA:O	1:B:184:LEU:HG	2.21	0.40
1:D:408:VAL:HG23	1:D:418:GLU:HB2	2.04	0.40
1:C:1462:ALA:HB2	1:C:1468:TYR:CE1	2.56	0.40
1:A:381:ARG:O	1:A:385:ARG:HG3	2.22	0.40
1:D:2672:TRP:CZ3	1:D:2830:LYS:HG2	2.56	0.40
1:F:1141:LEU:HD12	1:F:1293:ILE:HA	2.04	0.40
1:C:2483:VAL:HG13	1:C:2954:VAL:HG11	2.03	0.40
1:C:1551:LEU:HD13	1:C:1551:LEU:HA	1.80	0.40
1:B:81:LEU:HA	1:B:81:LEU:HD23	1.88	0.40
1:C:2251:GLU:H	1:C:2251:GLU:HG3	1.71	0.40
1:B:1604:ASP:OD1	1:B:1604:ASP:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3057:ASP:OD1	1:A:3057:ASP:N	2.54	0.40
1:F:2058:ASP:N	1:F:2058:ASP:OD1	2.46	0.40
1:F:2555:SER:HA	1:F:2556:PRO:HD2	1.85	0.40
1:E:2098:THR:HG23	1:E:2099:GLN:N	2.36	0.40
1:B:2865:ARG:HD2	1:E:2674:HIS:NE2	2.37	0.40
1:A:2865:ARG:HD2	1:F:2674:HIS:NE2	2.37	0.40
1:E:2557:LEU:HD23	1:E:2558:LEU:N	2.37	0.40
1:F:1271:LEU:HB3	1:F:1337:MET:SD	2.62	0.40
1:B:2697:HIS:HE1	1:B:2773:GLU:OE2	2.05	0.40
1:A:2645:ASP:OD2	1:A:2691:SER:HB2	2.22	0.40
1:E:2647:VAL:HA	1:E:2650:TRP:CD1	2.53	0.40
1:B:436:THR:HG22	1:B:460:GLY:HA3	2.03	0.40
1:E:1400:PRO:O	1:E:1415:GLY:HA2	2.21	0.40
1:F:1412:HIS:CD2	1:F:1413:PRO:HD2	2.49	0.40
1:F:360:LEU:HA	1:F:363:LEU:HB3	2.02	0.40
1:B:202:GLY:O	1:B:289:PRO:HD2	2.21	0.40
1:D:203:ASP:OD2	1:F:1087:PHE:HZ	2.05	0.40
1:F:2710:LEU:HD12	1:F:2713:VAL:HG21	2.03	0.40
1:C:480:GLU:OE1	1:C:483:ARG:NH2	2.55	0.40
1:D:1535:PHE:O	1:D:1679:TRP:N	2.48	0.40
1:B:1702:GLU:OE1	1:B:1711:VAL:HG22	2.22	0.40
1:A:2205:ASP:O	1:A:2209:LEU:HB2	2.21	0.40
1:C:669:LYS:O	1:C:682:ASN:HB3	2.20	0.40
1:F:2891:LYS:HZ1	1:F:2903:GLU:HB3	1.86	0.40
1:C:2468:GLU:OE2	1:C:2478:ARG:NH2	2.48	0.40
1:A:1291:LYS:HZ2	1:A:1346:PRO:N	2.20	0.40
1:A:1598:GLU:HG2	1:A:1666:ILE:HG21	2.04	0.40
1:F:2503:LYS:HE2	1:F:2514:ASP:O	2.22	0.40
1:A:2574:GLU:HG3	1:A:2599:TRP:CE2	2.57	0.40
1:D:1462:ALA:HB2	1:D:1468:TYR:CE1	2.56	0.40
1:C:2672:TRP:CZ3	1:C:2830:LYS:HG2	2.56	0.40
1:B:233:LEU:HB3	1:B:251:THR:OG1	2.21	0.40
1:A:1360:LYS:HD2	1:A:1398:ASP:HA	2.04	0.40
1:A:1141:LEU:HD12	1:A:1293:ILE:HA	2.04	0.40
1:C:2010:GLN:OE1	1:C:2013:LEU:HD11	2.21	0.40
1:A:1672:GLN:HB3	1:A:1672:GLN:HE21	1.58	0.40
1:D:1381:ASP:OD1	1:D:1391:SER:OG	2.22	0.40
1:D:1099:PRO:HB2	1:D:1295:TRP:HE1	1.86	0.40
1:A:256:SER:O	1:A:259:GLU:HB3	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	2818/3089 (91%)	2641 (94%)	159 (6%)	18 (1%)	30	74
1	B	2818/3089 (91%)	2641 (94%)	158 (6%)	19 (1%)	26	71
1	C	2818/3089 (91%)	2642 (94%)	157 (6%)	19 (1%)	26	71
1	D	2818/3089 (91%)	2641 (94%)	158 (6%)	19 (1%)	26	71
1	E	2818/3089 (91%)	2642 (94%)	158 (6%)	18 (1%)	30	74
1	F	2818/3089 (91%)	2642 (94%)	157 (6%)	19 (1%)	26	71
All	All	16908/18534 (91%)	15849 (94%)	947 (6%)	112 (1%)	31	71

All (112) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
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
1	C	2448	PRO
1	D	930	PRO
1	D	1148	GLU

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Mol	Chain	Res	Type
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	1148	GLU
1	F	2428	PRO
1	F	2436	PRO
1	F	2446	PRO
1	F	2448	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	990	PRO
1	D	1009	PRO
1	E	990	PRO
1	E	1009	PRO
1	F	990	PRO
1	F	1009	PRO
1	A	1724	TYR
1	B	1724	TYR
1	C	1724	TYR
1	D	1724	TYR
1	E	1724	TYR
1	F	1724	TYR
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	1652	TRP
1	B	1705	VAL

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Mol	Chain	Res	Type
1	C	149	ALA
1	C	1205	ASP
1	C	1652	TRP
1	C	1705	VAL
1	D	149	ALA
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	1205	ASP
1	F	1652	TRP
1	F	1705	VAL
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	D	89	GLU
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	1221	PRO
1	F	2444	PRO
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	1068	VAL
1	D	1285	LYS

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Mol	Chain	Res	Type
1	E	1068	VAL
1	E	1285	LYS
1	F	1068	VAL
1	F	1285	LYS
1	B	2585	PRO
1	C	2585	PRO
1	D	2585	PRO
1	F	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	2099/2402 (87%)	1997 (95%)	102 (5%)	31	67
1	B	2100/2402 (87%)	1997 (95%)	103 (5%)	31	67
1	C	2100/2402 (87%)	1998 (95%)	102 (5%)	31	67
1	D	2100/2402 (87%)	1998 (95%)	102 (5%)	31	67
1	E	2100/2402 (87%)	1998 (95%)	102 (5%)	31	67
1	F	2100/2402 (87%)	1998 (95%)	102 (5%)	31	67
All	All	12599/14412 (87%)	11986 (95%)	613 (5%)	35	67

All (613) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
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

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Mol	Chain	Res	Type
1	A	361	THR
1	A	389	THR
1	A	390	VAL
1	A	400	TRP
1	A	409	LYS
1	A	424	LEU
1	A	427	ARG
1	A	439	THR
1	A	456	GLU
1	A	517	ILE
1	A	544	ILE
1	A	580	ARG
1	A	584	HIS
1	A	595	LEU
1	A	606	ASN
1	A	621	SER
1	A	638	MET
1	A	644	LEU
1	A	654	GLU
1	A	694	ASP
1	A	696	HIS
1	A	699	ASP
1	A	791	GLU
1	A	857	VAL
1	A	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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
1	A	2930	LEU
1	A	2935	LYS
1	A	2962	ASP
1	A	3001	HIS
1	A	3019	ASP
1	A	3076	SER
1	A	3077	THR
1	A	3080	ARG
1	B	90	LEU
1	B	208	VAL
1	B	209	SER
1	B	232	VAL
1	B	233	LEU
1	B	248	ILE
1	B	251	THR
1	B	342	GLU
1	B	344	HIS
1	B	358	ASP
1	B	361	THR
1	B	389	THR
1	B	390	VAL
1	B	400	TRP
1	B	409	LYS
1	B	424	LEU
1	B	427	ARG
1	B	439	THR
1	B	456	GLU
1	B	517	ILE
1	B	544	ILE
1	B	580	ARG
1	B	584	HIS
1	B	595	LEU
1	B	606	ASN
1	B	621	SER
1	B	638	MET
1	B	644	LEU
1	B	654	GLU
1	B	694	ASP
1	B	696	HIS
1	B	699	ASP
1	B	791	GLU
1	B	857	VAL

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
1	C	3076	SER
1	C	3077	THR
1	C	3080	ARG
1	D	90	LEU
1	D	208	VAL
1	D	209	SER
1	D	232	VAL
1	D	233	LEU
1	D	248	ILE
1	D	251	THR
1	D	342	GLU
1	D	344	HIS
1	D	358	ASP
1	D	361	THR
1	D	389	THR
1	D	390	VAL
1	D	400	TRP
1	D	409	LYS
1	D	424	LEU
1	D	427	ARG
1	D	439	THR
1	D	456	GLU
1	D	517	ILE
1	D	544	ILE
1	D	580	ARG
1	D	584	HIS
1	D	595	LEU
1	D	606	ASN
1	D	621	SER
1	D	638	MET
1	D	644	LEU
1	D	654	GLU
1	D	694	ASP
1	D	696	HIS
1	D	699	ASP
1	D	791	GLU
1	D	857	VAL
1	D	930	PRO
1	D	990	PRO
1	D	1009	PRO
1	D	1021	LEU
1	D	1096	THR

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Mol	Chain	Res	Type
1	D	1105	ARG
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

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Mol	Chain	Res	Type
1	D	2620	THR
1	D	2692	MET
1	D	2742	THR
1	D	2784	THR
1	D	2800	PHE
1	D	2802	ARG
1	D	2809	LEU
1	D	2827	LEU
1	D	2861	LEU
1	D	2871	THR
1	D	2879	LEU
1	D	2894	THR
1	D	2916	ARG
1	D	2930	LEU
1	D	2935	LYS
1	D	2962	ASP
1	D	3001	HIS
1	D	3019	ASP
1	D	3076	SER
1	D	3077	THR
1	D	3080	ARG
1	E	90	LEU
1	E	208	VAL
1	E	209	SER
1	E	232	VAL
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

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Mol	Chain	Res	Type
1	E	580	ARG
1	E	584	HIS
1	E	595	LEU
1	E	606	ASN
1	E	621	SER
1	E	638	MET
1	E	644	LEU
1	E	654	GLU
1	E	694	ASP
1	E	696	HIS
1	E	699	ASP
1	E	791	GLU
1	E	857	VAL
1	E	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

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Mol	Chain	Res	Type
1	E	2129	PRO
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

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Mol	Chain	Res	Type
1	F	232	VAL
1	F	233	LEU
1	F	248	ILE
1	F	251	THR
1	F	342	GLU
1	F	344	HIS
1	F	358	ASP
1	F	361	THR
1	F	389	THR
1	F	390	VAL
1	F	400	TRP
1	F	409	LYS
1	F	424	LEU
1	F	427	ARG
1	F	439	THR
1	F	456	GLU
1	F	517	ILE
1	F	544	ILE
1	F	580	ARG
1	F	584	HIS
1	F	595	LEU
1	F	606	ASN
1	F	621	SER
1	F	638	MET
1	F	644	LEU
1	F	654	GLU
1	F	694	ASP
1	F	696	HIS
1	F	699	ASP
1	F	791	GLU
1	F	857	VAL
1	F	930	PRO
1	F	990	PRO
1	F	1009	PRO
1	F	1021	LEU
1	F	1096	THR
1	F	1105	ARG
1	F	1127	GLU
1	F	1162	THR
1	F	1206	PRO
1	F	1221	PRO
1	F	1253	ARG

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Mol	Chain	Res	Type
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
1	F	2800	PHE
1	F	2802	ARG

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Mol	Chain	Res	Type
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

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (140) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	386	ASN
1	A	486	GLN
1	A	540	ASN
1	A	575	HIS
1	A	585	HIS
1	A	606	ASN
1	A	1057	ASN
1	A	1134	HIS
1	A	1276	GLN
1	A	1277	HIS
1	A	1355	GLN
1	A	1534	ASN
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

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Mol	Chain	Res	Type
1	A	2973	HIS
1	B	386	ASN
1	B	486	GLN
1	B	540	ASN
1	B	575	HIS
1	B	585	HIS
1	B	606	ASN
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	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	606	ASN
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

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Mol	Chain	Res	Type
1	C	2815	GLN
1	C	2850	HIS
1	C	2927	GLN
1	C	2942	GLN
1	C	2973	HIS
1	D	386	ASN
1	D	486	GLN
1	D	540	ASN
1	D	575	HIS
1	D	585	HIS
1	D	1057	ASN
1	D	1134	HIS
1	D	1276	GLN
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	575	HIS
1	E	585	HIS
1	E	606	ASN
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

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Mol	Chain	Res	Type
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
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	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

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

5.6 Ligand geometry (i)

6 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
2	FMN	A	4000	-	32,33,33	1.20	3 (9%)	34,50,50	1.72	7 (20%)
2	FMN	B	4000	-	32,33,33	1.21	3 (9%)	34,50,50	1.72	7 (20%)
2	FMN	C	4000	-	32,33,33	1.22	3 (9%)	34,50,50	1.71	7 (20%)
2	FMN	D	4000	-	32,33,33	1.22	3 (9%)	34,50,50	1.72	7 (20%)
2	FMN	E	4000	-	32,33,33	1.21	3 (9%)	34,50,50	1.71	7 (20%)
2	FMN	F	4000	-	32,33,33	1.22	3 (9%)	34,50,50	1.69	7 (20%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

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

All (18) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	E	4000	FMN	C5A-N5	2.21	1.38	1.35
2	A	4000	FMN	C5A-N5	2.23	1.38	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	4000	FMN	C5A-N5	2.23	1.38	1.35
2	F	4000	FMN	C5A-N5	2.26	1.38	1.35
2	C	4000	FMN	C5A-N5	2.30	1.38	1.35
2	D	4000	FMN	C5A-N5	2.31	1.38	1.35
2	A	4000	FMN	C4-N3	3.14	1.38	1.33
2	B	4000	FMN	C4-N3	3.15	1.38	1.33
2	D	4000	FMN	C4-N3	3.16	1.38	1.33
2	E	4000	FMN	C4-N3	3.17	1.38	1.33
2	F	4000	FMN	C4-N3	3.18	1.38	1.33
2	C	4000	FMN	C4-N3	3.21	1.38	1.33
2	C	4000	FMN	C4A-N5	3.47	1.38	1.33
2	D	4000	FMN	C4A-N5	3.48	1.38	1.33
2	A	4000	FMN	C4A-N5	3.49	1.38	1.33
2	E	4000	FMN	C4A-N5	3.50	1.38	1.33
2	F	4000	FMN	C4A-N5	3.53	1.38	1.33
2	B	4000	FMN	C4A-N5	3.55	1.38	1.33

All (42) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	4000	FMN	N3-C2-N1	-4.48	120.15	127.69
2	B	4000	FMN	N3-C2-N1	-4.48	120.15	127.69
2	E	4000	FMN	N3-C2-N1	-4.46	120.17	127.69
2	D	4000	FMN	N3-C2-N1	-4.45	120.20	127.69
2	C	4000	FMN	N3-C2-N1	-4.44	120.21	127.69
2	F	4000	FMN	N3-C2-N1	-4.43	120.23	127.69
2	A	4000	FMN	C4A-C4-N3	-2.85	119.79	123.52
2	E	4000	FMN	C4A-C4-N3	-2.85	119.80	123.52
2	F	4000	FMN	C4A-C4-N3	-2.84	119.81	123.52
2	C	4000	FMN	C4A-C4-N3	-2.84	119.81	123.52
2	D	4000	FMN	C4A-C4-N3	-2.84	119.81	123.52
2	B	4000	FMN	C4A-C4-N3	-2.83	119.82	123.52
2	F	4000	FMN	C1'-N10-C9A	2.00	121.15	118.83
2	B	4000	FMN	C1'-N10-C9A	2.05	121.21	118.83
2	D	4000	FMN	C1'-N10-C9A	2.06	121.22	118.83
2	E	4000	FMN	C1'-N10-C9A	2.06	121.22	118.83
2	A	4000	FMN	C1'-N10-C9A	2.07	121.22	118.83
2	C	4000	FMN	C1'-N10-C9A	2.08	121.24	118.83
2	F	4000	FMN	C4-C4A-N5	2.20	121.37	118.70
2	C	4000	FMN	C4-C4A-N5	2.23	121.41	118.70
2	A	4000	FMN	C4-C4A-N5	2.25	121.44	118.70
2	B	4000	FMN	C4-C4A-N5	2.26	121.45	118.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	4000	FMN	C4-C4A-N5	2.28	121.47	118.70
2	E	4000	FMN	C4-C4A-N5	2.29	121.48	118.70
2	F	4000	FMN	C4A-N5-C5A	2.71	119.92	116.72
2	C	4000	FMN	C4A-N5-C5A	2.71	119.92	116.72
2	B	4000	FMN	C4A-N5-C5A	2.72	119.93	116.72
2	A	4000	FMN	C4A-N5-C5A	2.73	119.94	116.72
2	E	4000	FMN	C4A-N5-C5A	2.75	119.96	116.72
2	D	4000	FMN	C4A-N5-C5A	2.76	119.97	116.72
2	E	4000	FMN	C5A-C9A-N10	2.90	119.75	117.58
2	A	4000	FMN	C5A-C9A-N10	2.91	119.76	117.58
2	F	4000	FMN	C5A-C9A-N10	2.91	119.76	117.58
2	B	4000	FMN	C5A-C9A-N10	2.95	119.79	117.58
2	D	4000	FMN	C5A-C9A-N10	2.99	119.81	117.58
2	C	4000	FMN	C5A-C9A-N10	3.02	119.84	117.58
2	F	4000	FMN	C4-N3-C2	5.88	120.06	115.16
2	C	4000	FMN	C4-N3-C2	5.95	120.12	115.16
2	E	4000	FMN	C4-N3-C2	5.96	120.13	115.16
2	D	4000	FMN	C4-N3-C2	5.97	120.13	115.16
2	B	4000	FMN	C4-N3-C2	5.98	120.15	115.16
2	A	4000	FMN	C4-N3-C2	5.99	120.16	115.16

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6 monomers are involved in 26 short contacts:

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

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.