Full wwPDB EM Validation Report ⓘ

May 19, 2024 – 09:42 am BST

PDB ID	:	6YEW
EMDB ID	:	EMD-10796
Title	:	Morganella morganii TcdA4 in complex with porcine mucosa heparin
Authors	:	Roderer, D.; Broecker, F.; Sitsel, O.; Kaplonek, P.; Leidreiter, F.; Seeberger, P.H.; Raunser, S.
Deposited on	:	2020-03-25
Resolution	:	3.20 Å(reported)
Based on initial model	:	6RW9

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

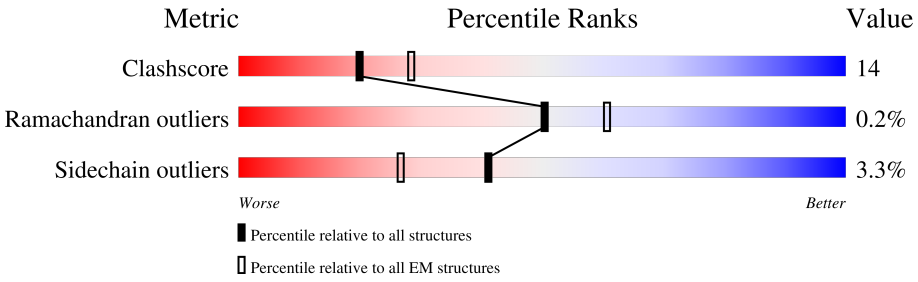
EMDB validation analysis	:	0.0.1.dev92
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

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 3.20 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	2469	6% 63% 29% • 7%
1	B	2469	6% 64% 28% • 7%
1	C	2469	6% 63% 28% • 7%
1	D	2469	6% 63% 28% • 7%
1	E	2469	6% 63% 29% • 7%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 88700 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 Insecticidal toxin protein.

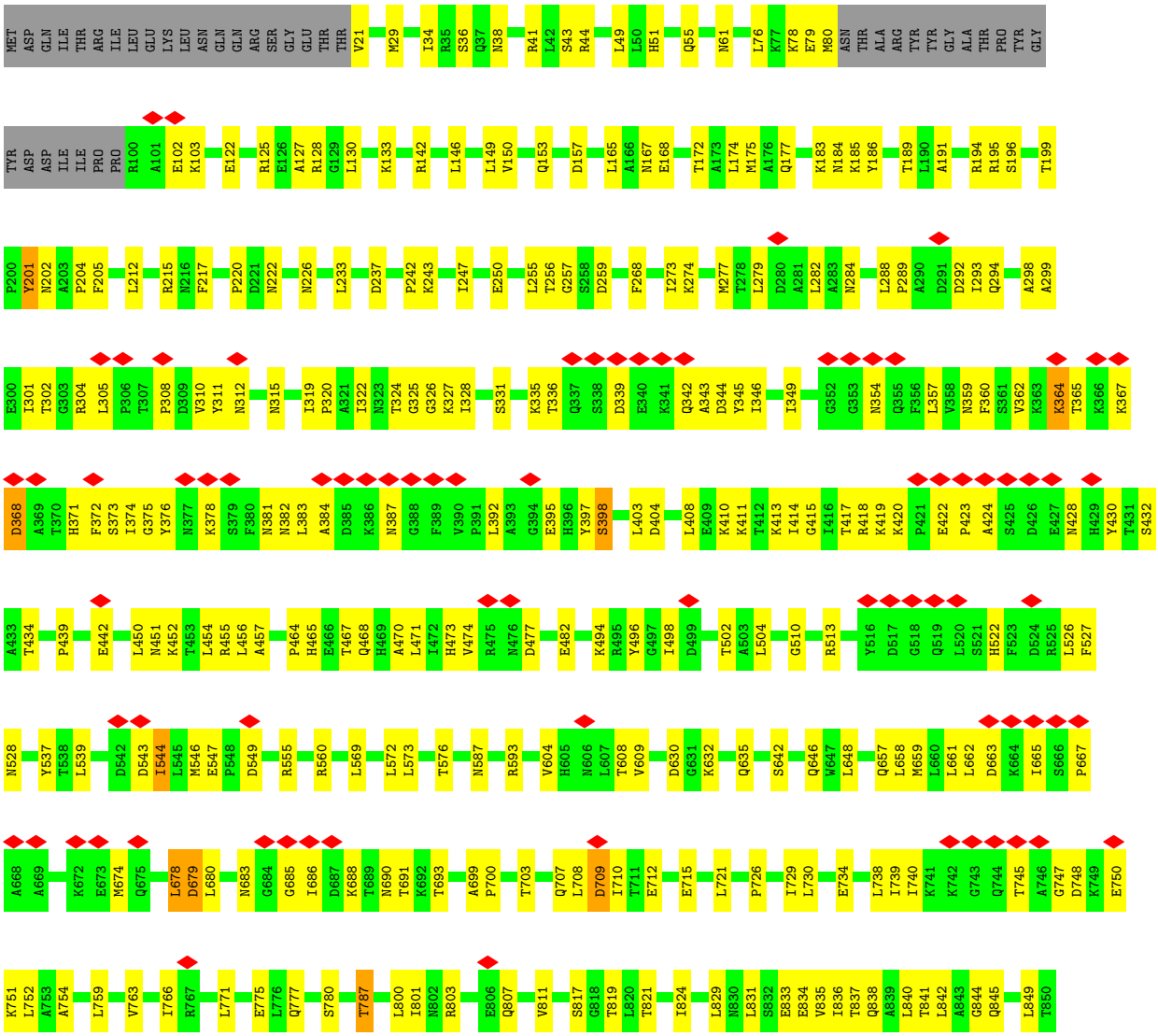
Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	2285	Total	C	N	O	S	0	0
			17740	11194	3070	3415	61		
1	B	2285	Total	C	N	O	S	0	0
			17740	11194	3070	3415	61		
1	C	2285	Total	C	N	O	S	0	0
			17740	11194	3070	3415	61		
1	D	2285	Total	C	N	O	S	0	0
			17740	11194	3070	3415	61		
1	E	2285	Total	C	N	O	S	0	0
			17740	11194	3070	3415	61		

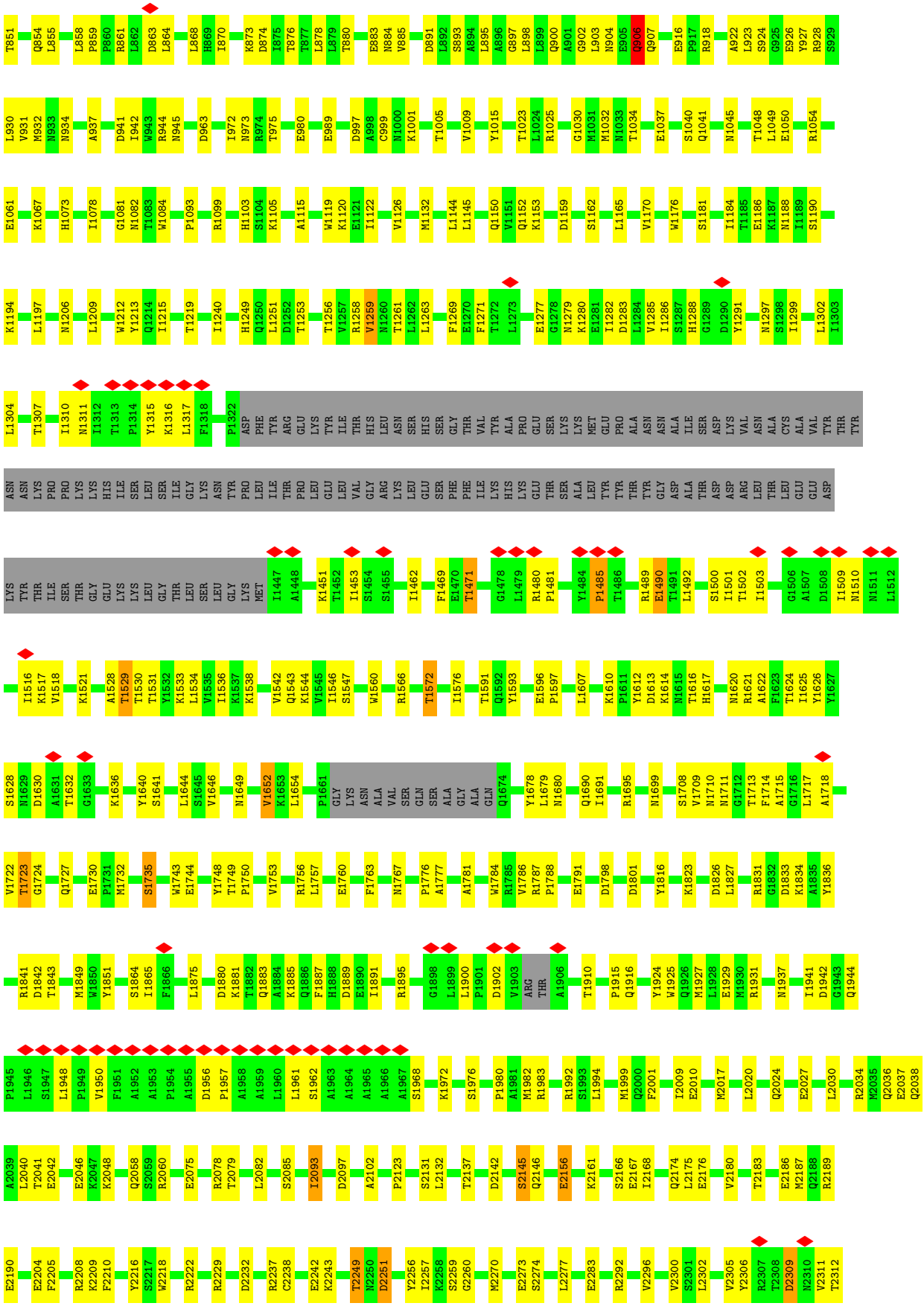
3 Residue-property plots (i)

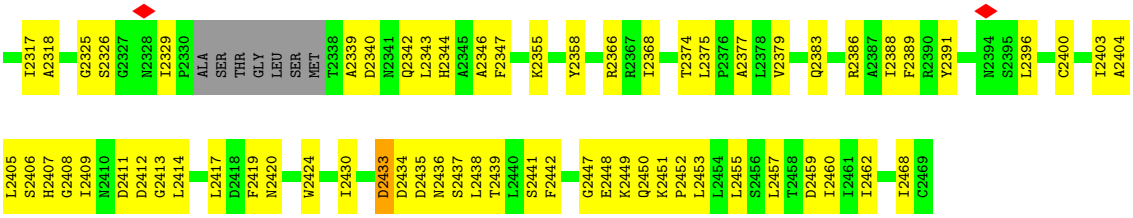
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

- Molecule 1: Insecticidal toxin protein

Chain A:

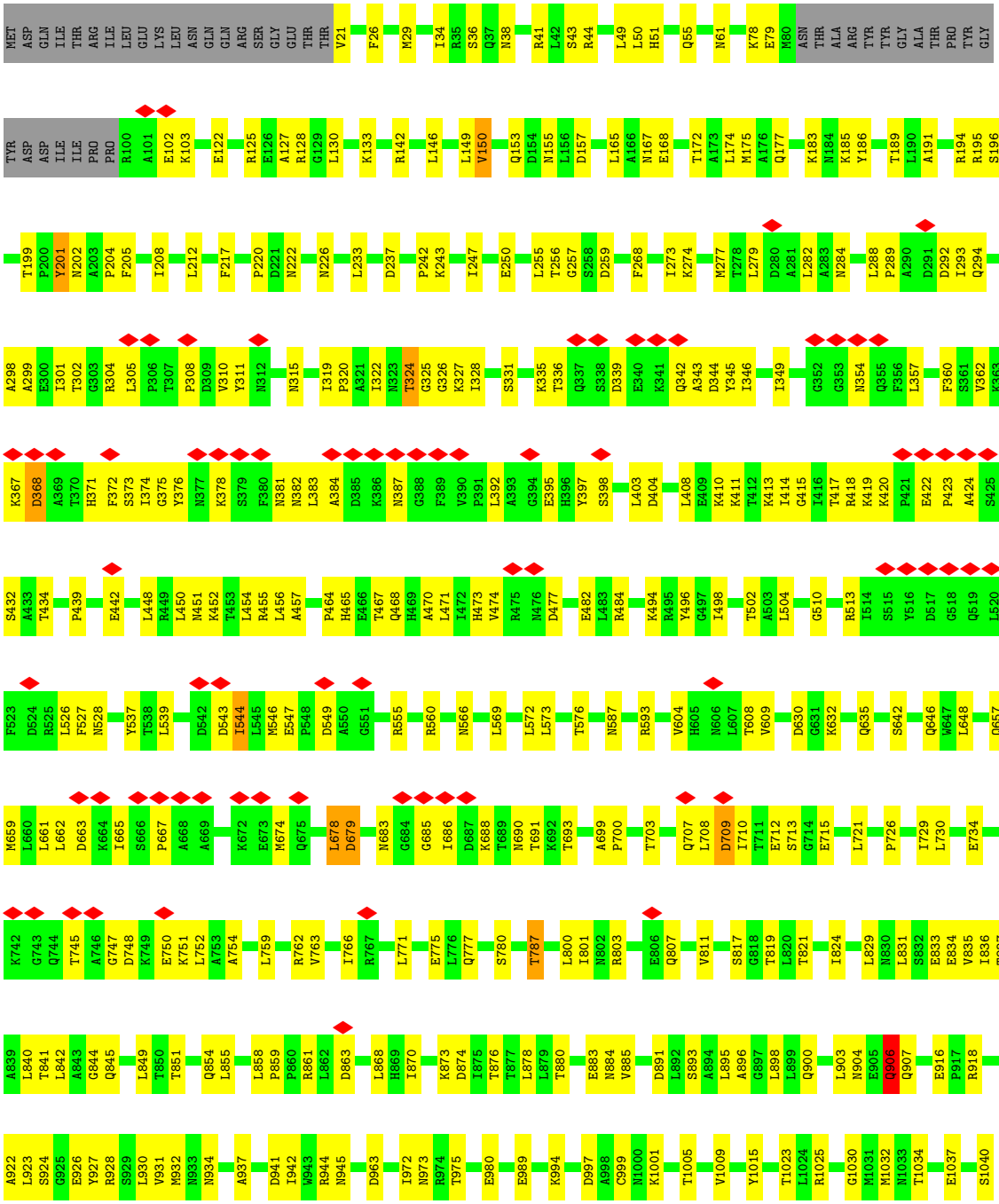


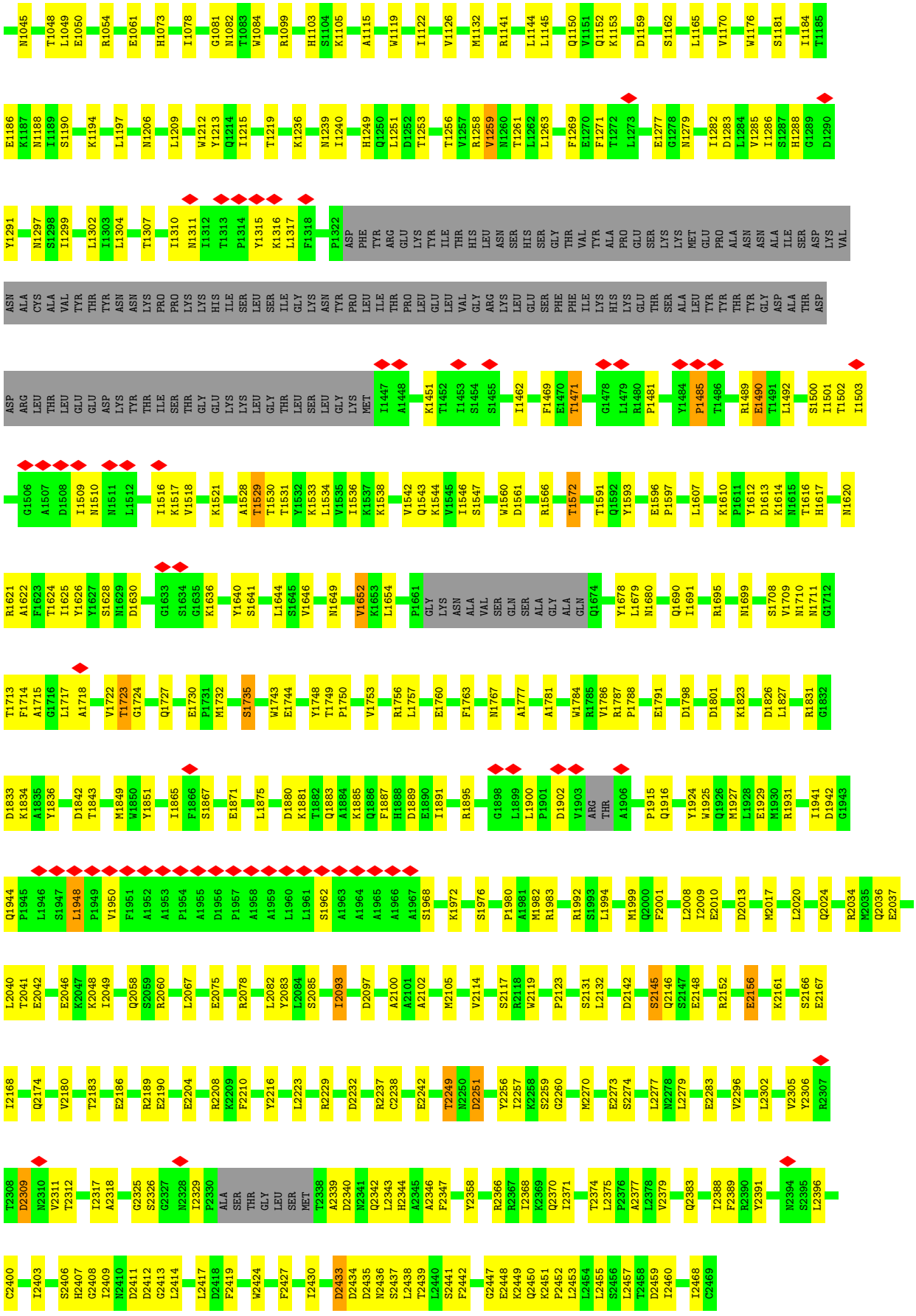




• Molecule 1: Insecticidal toxin protein

Chain B:

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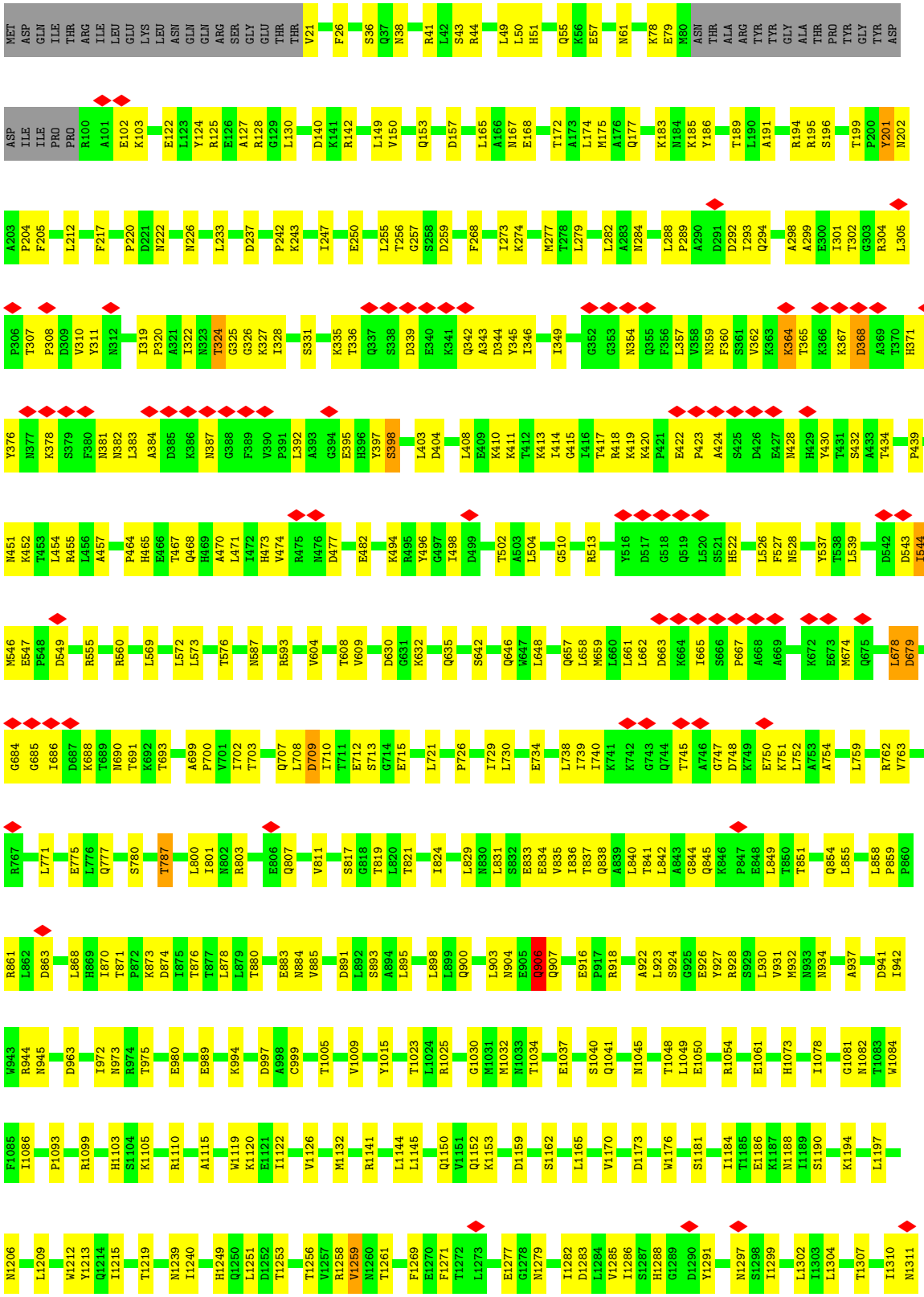
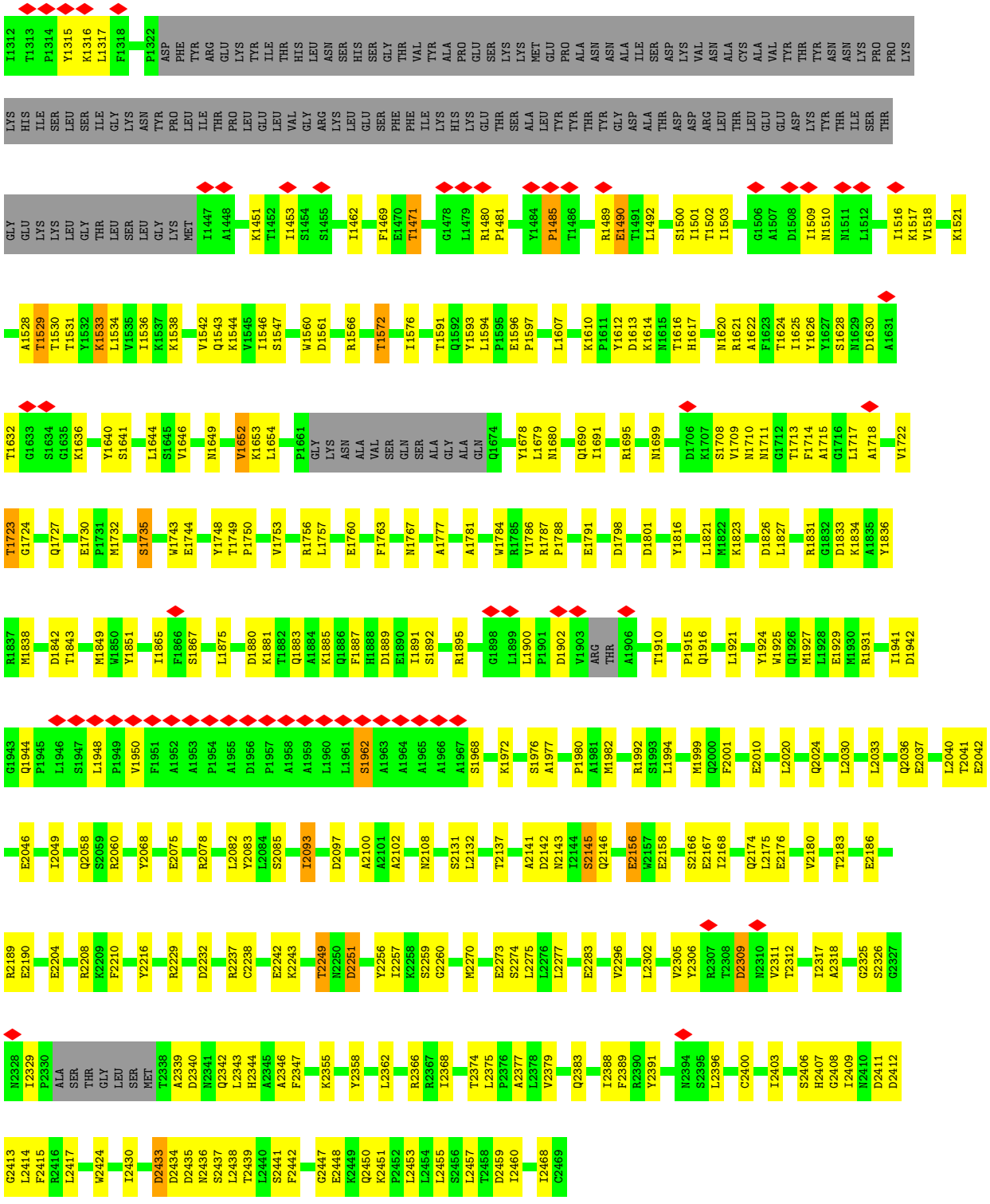
E1186 K1187 N1188 I1189 S1190 K1194 L1197 N1206 L1209 W1212 Y1213 Q1214 I1215 T1219 K1236 N1239 I1240 H1249 Q1250 L1251 D1252 T1253 T1256 V1257 R1258 V1259 N1260 T1261 L1262 L1263 F1269 E1270 F1271 T1272 L1273 E1277 G1278 N1279 I1282 D1283 L1284 V1285 I1286 S1287 H1288 G1289 D1290
Y1291 N1297 S1298 I1299 L1302 I1303 L1304 T1307 I1310 N1311 I1312 T1313 P1314 Y1315 K1316 L1317 F1318 P1322
ASP PHE TYR ARG GLU LYS TYR ILE THR HIS LEU ASN SER HIS SER GLY THR VAL TYR ALA PRO GLU SER LYS MET GLU PRO ALA ASN ASN ALA ILE SER ASP LYS VAL
ASN ALA CYS ALA VAL TYR THR TYR ASN ASN LYS PRO PRO LYS LYS HIS ILE SER LEU SER ILE GLY LYS ASN TYR PRO LEU ILE THR PRO LEU GLU LEU VAL GLY ARG LYS LEU GLU SER PHE PHE ILE LYS HIS LYS GLU THR SER ALA LEU TYR TYR THR TYR GLY ASP ALA ILE SER THR ASP
ASP ARG LEU THR LEU GLU GLU ASP LYS TYR THR ILE SER THR GLY GLU LYS LYS LEU GLY THR LEU SER LEU GLY LYS MET I1447 A1448 K1451 T1452 I1453 S1454 S1455 I1462 F1469 E1470 T1471 G1478 L1479 R1480 P1481 Y1484 P1485 T1486 R1489 E1490 T1491 L1492 S1500 I1501 T1502 I1503
G1506 A1507 D1508 I1509 N1510 N1511 L1512 I1516 K1517 V1518 K1521 A1528 T1529 T1530 T1531 Y1532 K1533 L1534 V1535 I1536 K1537 K1538 V1542 Q1543 K1544 V1545 I1546 S1547 W1560 D1561 R1566 T1572 T1591 Q1592 Y1593 E1596 P1597 L1607 K1610 P1611 Y1612 D1613 K1614 N1615 H1617 N1620
R1621 A1622 F1623 T1624 I1625 Y1626 Y1627 S1628 N1629 D1630 G1633 S1634 G1635 K1636 Y1640 S1641 L1644 S1645 V1646 N1649 V1652 K1653 L1654 P1661 GLY LYS ASN ALA VAL SER GLN SER ALA GLY ALA GLN Q1674 Y1678 L1679 N1680 Q1690 I1691 R1695 N1699 S1708 V1709 N1710 N1711 G1712
T1713 F1714 A1715 G1716 I1717 A1718 V1722 T1723 G1724 Q1727 E1730 P1731 M1732 S1735 W1743 E1744 Y1748 T1749 P1750 V1753 R1756 L1757 E1760 F1763 N1767 A1777 A1781 W1784 R1785 V1786 R1787 P1788 E1791 D1798 D1801 K1823 D1826 L1827 R1831 G1832
D1833 K1834 A1835 Y1836 D1842 T1843 M1849 W1850 Y1851 I1865 F1866 S1867 E1871 L1875 D1880 K1881 T1882 Q1883 A1884 K1885 Q1886 F1887 H1888 D1889 E1890 I1891 R1895 G1898 L1899 L1900 P1901 D1902 V1903 ARG THR A1906 P1915 Q1916 Y1924 W1925 Q1926 M1927 L1928 E1929 M1930 R1931 I1941 D1942 G1943
Q1944 P1945 L1946 S1947 L1948 P1949 V1950 F1951 A1952 A1953 P1954 A1955 D1956 P1957 A1958 A1959 L1960 L1961 S1962 A1963 A1964 A1965 A1966 A1967 S1968 K1972 S1976 P1980 A1981 M1982 R1983 R1992 S1993 L1994 M1999 Q2000 F2001 L2008 I2009 E2010 D2013 M2017 L2020 Q2024 R2034 M2035 Q2036 E2037
L2040 T2041 E2042 E2046 K2047 K2048 I2049 Q2058 S2059 R2060 L2067 E2075 R2078 L2082 Y2083 L2084 S2085 I2093 D2097 A2100 A2101 A2102 M2105 V2114 S2117 R2118 W2119 P2123 S2131 L2132 D2142 S2145 Q2146 S2147 E2148 R2152 E2156 K2161 S2166 E2167
I2168 Q2174 V2180 T2183 E2186 R2189 E2190 E2204 R2208 K2209 F2210 Y2216 L2223 R2229 D2232 R2237 C2238 E2242 T2249 N2250 D2251 Y2256 I2257 K2258 S2259 G2260 M2270 E2273 S2274 L2277 N2278 L2279 E2283 V2296 L2302 V2305 Y2306 R2307
T2308 D2309 N2310 V2311 T2312 I2317 A2318 G2325 S2326 G2327 N2328 I2329 P2330 ALA SER THR GLY LEU SER MET T2338 A2339 D2340 N2341 Q2342 L2343 H2344 A2345 A2346 F2347 Y2358 R2366 R2367 I2368 K2369 Q2370 I2371 T2374 L2375 P2376 A2377 L2378 V2379 Q2383 I2388 F2389 R2390 Y2391 N2394 S2395 L2396
C2400 I2403 S2406 H2407 G2408 I2409 N2410 D2411 D2412 G2413 L2414 L2417 D2418 F2419 W2424 F2427 I2430 D2433 D2434 D2435 N2436 S2437 L2438 T2439 L2440 S2441 F2442 G2447 E2448 K2449 Q2450 K2451 P2452 L2453 L2454 L2455 S2456 L2457 T2458 D2459 I2460 I2468 C2469

• Molecule 1: Insecticidal toxin protein

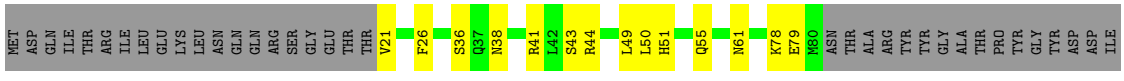
Chain C:

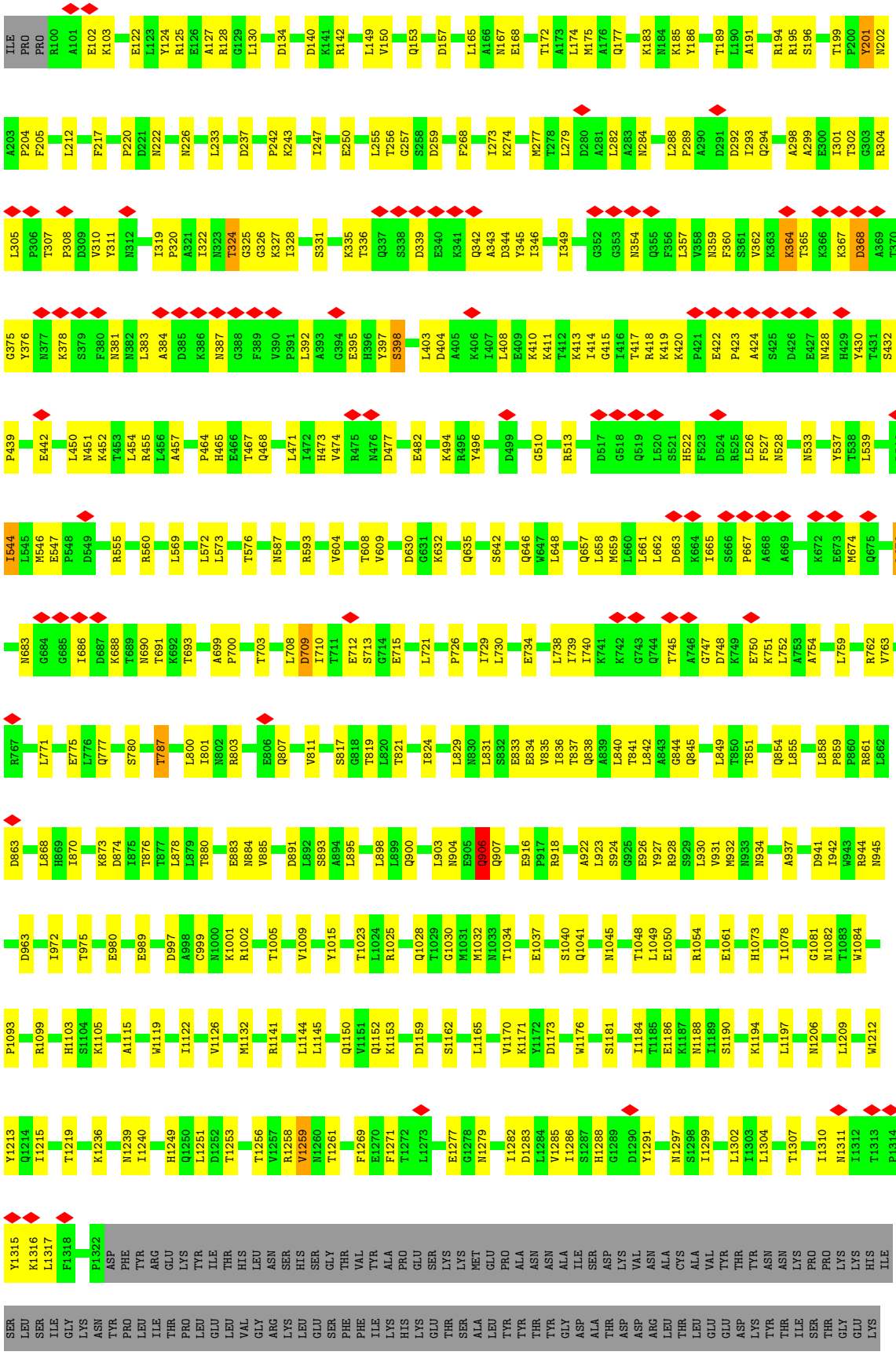




• Molecule 1: Insecticidal toxin protein

Chain D:

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A203 P204 F205 L212 F217 P220 D221 N222 N226 L233 D237 P242 K243 I247 E250 L255 T256 G257 S258 D259 F268 I273 K274 M277 T278 L279 D280 A281 L282 A283 N284 L288 P289 A290 D291 D292 I293 Q294 A298 A299 E300 I301 T302 G303 R304
L305 P306 T307 P308 D309 V310 Y311 N312 I319 P320 A321 I322 N323 T324 G325 G326 K327 I328 S331 K335 T336 Q337 S338 D339 E340 K341 Q342 A343 D344 Y345 I346 I349 G352 G353 N354 Q355 F356 L357 V358 N359 F360 S361 V362 K363 K364 T365 K366 K367 D368 A369 T370 H371 F372 S373 I374
G375 Y376 N377 K378 S379 F380 N381 N382 L383 A384 D385 K386 N387 G388 F389 V390 P391 L392 A393 G394 E395 H396 Y397 S398 L403 D404 A405 K406 I407 L408 E409 K410 K411 T412 K413 I414 G415 I416 T417 R418 K419 K420 P421 E422 P423 A424 S425 D426 E427 N428 H429 Y430 T431 S432 A433 T434 I437 H438
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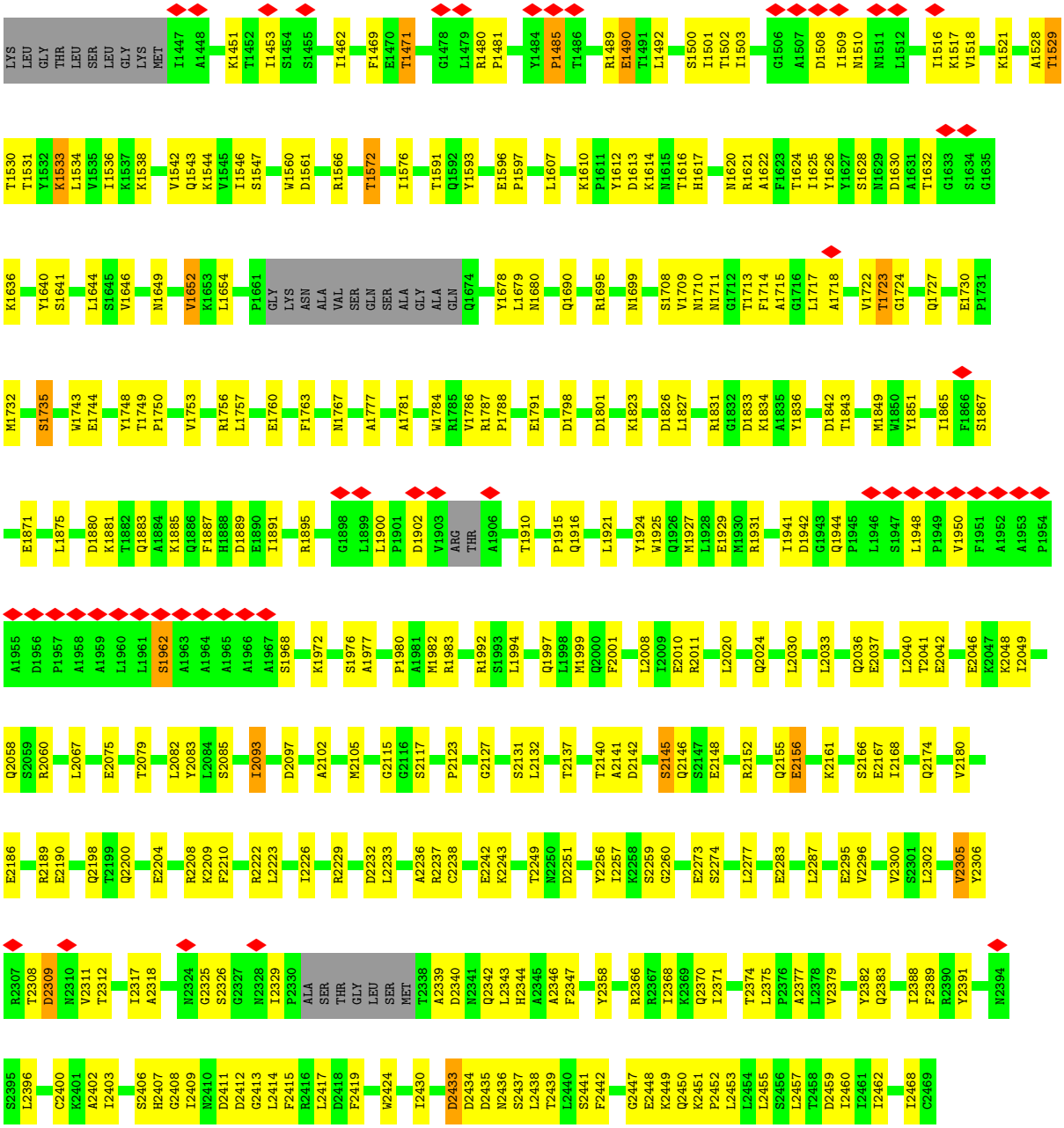
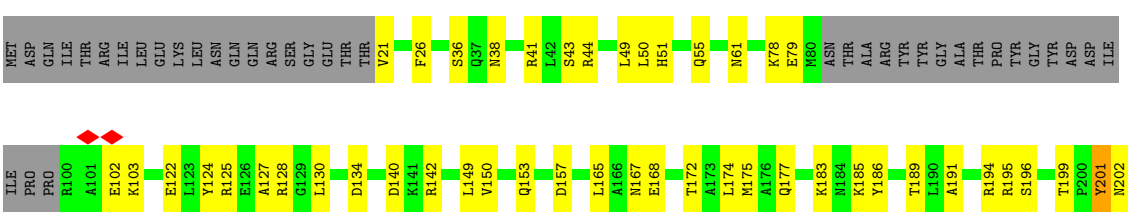
Y1213 Q1214 I1215 T1219 K1236 N1239 I1240 H1249 Q1250 L1251 D1252 T1253 T1256 V1257 R1258 V1259 N1260 T1261 F1269 E1270 F1271 T1272 L1273 E1277 G1278 N1279 I1282 D1283 L1284 V1285 I1286 S1287 H1288 G1289 D1290 Y1291 N1297 S1298 I1299 L1302 I1303 L1304 T1307 I1310 N1311 I1312 T1313 P1314
Y1315 K1316 L1317 F1318 P1322 ASP PHE TYR ARG GLU LYS TYR ILE THR HIS LEU ASN SER HIS SER GLY THR VAL TYR ALA PRO GLU SER LYS LYS MET GLU PRO ALA ASN ASN ALA ILE SER ASP LYS VAL ASN ALA CYS ALA VAL TYR THR TYR ASN ASN LYS PRO PRO LYS LYS HIS ILE
SER LEU SER ILE GLY LYS ASN TYR PRO LEU ILE THR PRO LEU GLU LEU VAL GLY ARG LYS LEU GLU SER PHE PHE ILE LYS HIS LYS GLU THR SER ALA LEU TYR TYR THR TYR GLY ASP ALA THR ASP ASP ARG LEU THR LEU GLU GLU ASP LYS TYR THR ILE SER THR GLY GLU LYS



• Molecule 1: Insecticidal toxin protein

Chain E:

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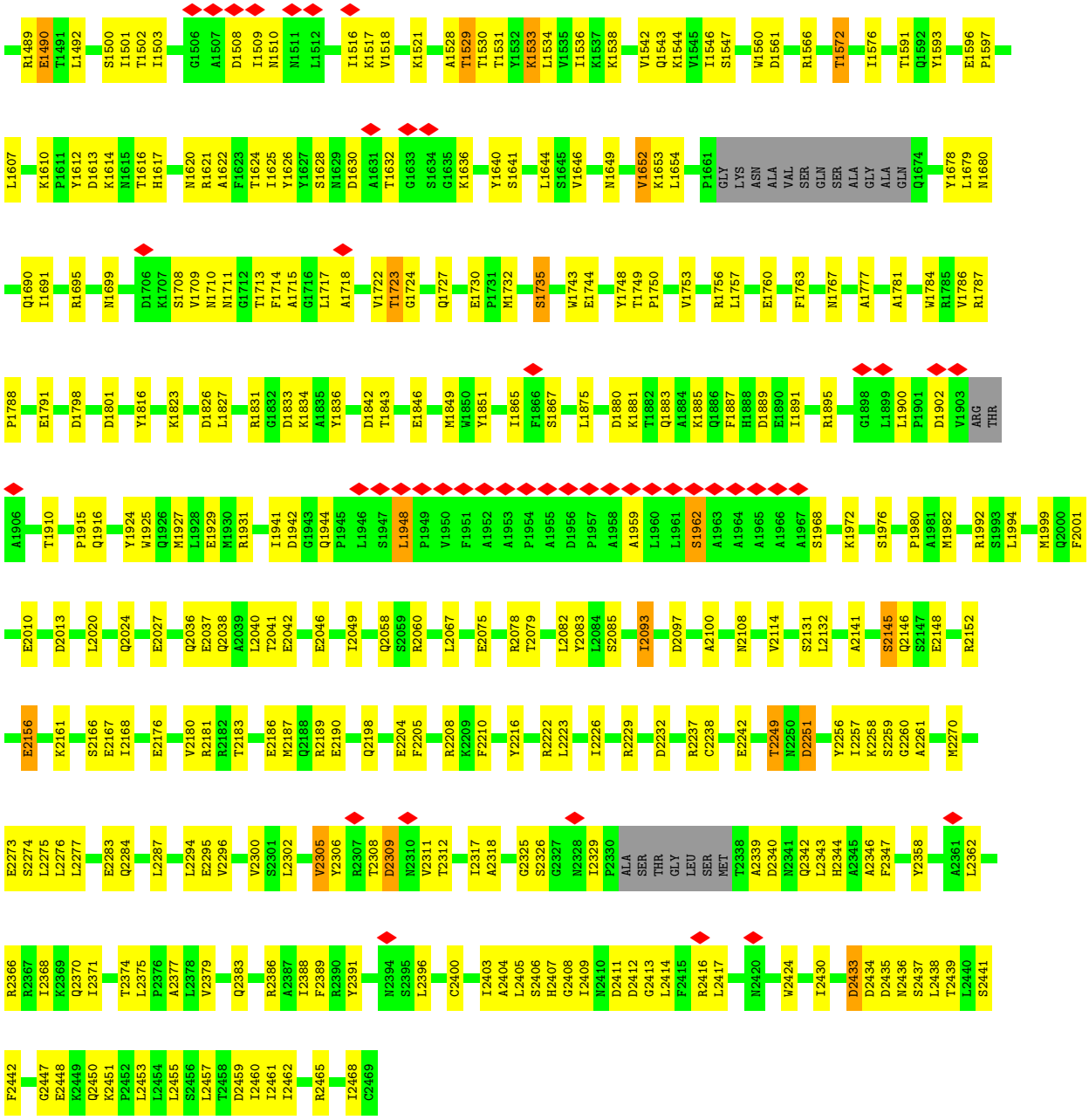
PRO ALA ASN ASN ALA ILE SER ASP LYS VAL ASN ALA CYS ALA VAL TYR THR THR ASN ASN LYS PRO PRO LYS LYS HIS ILE SER LEU LEU SER ILE GLY LYS ASN TYR PRO LEU ILE THR PRO LEU GLU LEU VAL GLY ARG LYS LEU GLU SER PHE PHE ILE LYS HIS LYS GLU THR SER ALA
LEU TYR TYR THR TYR GLY ASP ALA THR ASP ASP ARG LEU THR LEU GLU GLU ASP LYS TYR THR ILE SER THR GLY GLU LYS LYS LEU GLY THR LEU SER LEU GLY LYS MET I1447 A1448 K1451 T1452 I1453 S1454 S1455 I1462 F1469 E1470 T1471 G1478 L1479 R1480 P1481 Y1484 P1485 T1486


R1489 E1490 T1491 L1492 S1500 I1501 T1502 I1503 G1506 A1507 D1508 I1509 N1510 N1511 L1512 I1516 K1517 V1518 K1521 A1528 T1529 T1530 T1531 Y1532 K1533 L1534 V1535 I1536 K1537 K1538 V1542 Q1543 K1544 V1545 I1546 S1547 W1560 D1561 R1566 T1572 I1576 T1591 Q1592 Y1593 E1596 P1597
L1607 K1610 P1611 Y1612 D1613 K1614 N1615 T1616 H1617 N1620 R1621 A1622 F1623 T1624 I1625 Y1626 Y1627 S1628 N1629 D1630 A1631 T1632 G1633 S1634 G1635 K1636 Y1640 S1641 L1644 S1645 V1646 N1649 V1652 K1653 L1654 P1661 GLY LYS ASN ALA VAL SER GLN SER ALA GLY ALA GLN Q1674 Y1678 L1679 N1680
Q1690 I1691 R1695 N1699 D1706 K1707 S1708 V1709 N1710 N1711 G1712 T1713 F1714 A1715 G1716 L1717 A1718 V1722 T1723 G1724 Q1727 E1730 P1731 M1732 S1735 W1743 E1744 Y1748 T1749 P1750 V1753 R1756 L1757 E1760 F1763 N1767 A1777 A1781 W1784 R1785 V1786 R1787
P1788 E1791 D1798 D1801 Y1816 K1823 D1826 L1827 R1831 G1832 D1833 K1834 A1835 Y1836 D1842 T1843 E1846 M1849 W1850 Y1851 I1865 F1866 S1867 L1875 D1880 K1881 T1882 Q1883 A1884 K1885 Q1886 F1887 H1888 D1889 E1890 I1891 R1895 G1898 L1899 L1900 P1901 D1902 V1903 ARG THR
A1906 T1910 P1915 Q1916 Y1924 W1925 Q1926 M1927 L1928 E1929 M1930 R1931 I1941 D1942 G1943 Q1944 P1945 L1946 S1947 L1948 P1949 V1950 F1951 A1952 A1953 P1954 A1955 D1956 P1957 A1958 A1959 L1960 L1961 S1962 A1963 A1964 A1965 A1966 A1967 S1968 K1972 S1976 P1980 A1981 M1982 R1992 S1993 L1994 M1999 Q2000 F2001
E2010 D2013 L2020 Q2024 E2027 Q2036 E2037 Q2038 A2039 L2040 T2041 E2042 E2046 I2049 Q2058 S2059 R2060 L2067 E2075 R2078 T2079 L2082 Y2083 L2084 S2085 I2093 D2097 A2100 N2108 V2114 S2131 L2132 A2141 S2145 Q2146 S2147 E2148 R2152
E2156 K2161 S2166 E2167 I2168 E2176 V2180 R2181 R2182 T2183 E2186 M2187 Q2188 R2189 E2190 Q2198 E2204 F2205 R2208 K2209 F2210 Y2216 R2222 L2223 I2226 R2229 D2232 R2237 C2238 E2242 T2249 N2250 D2251 Y2256 I2257 K2258 S2259 G2260 A2261 M2270
E2273 S2274 L2275 L2276 L2277 E2283 Q2284 L2287 L2294 E2295 V2296 V2300 S2301 L2302 V2305 Y2306 R2307 T2308 D2309 N2310 V2311 T2312 I2317 A2318 G2325 S2326 G2327 N2328 I2329 P2330 ALA SER THR GLY LEU SER MET T2338 A2339 D2340 N2341 Q2342 L2343 H2344 A2345 A2346 F2347 Y2358 A2361 L2362
R2366 R2367 I2368 K2369 Q2370 I2371 T2374 L2375 P2376 A2377 L2378 V2379 Q2383 R2386 A2387 I2388 F2389 R2390 Y2391 N2394 S2395 L2396 C2400 I2403 A2404 L2405 S2406 H2407 G2408 I2409 N2410 D2411 D2412 G2413 L2414 F2415 R2416 L2417 N2420 W2424 I2430 D2433 D2434 D2435 N2436 S2437 L2438 T2439 L2440 S2441
F2442 G2447 E2448 K2449 Q2450 K2451 P2452 L2453 L2454 L2455 S2456 L2457 T2458 D2459 I2460 I2461 I2462 R2465 I2468 C2469

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C5	Depositor
Number of particles used	182506	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	100	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	0.161	Depositor
Minimum map value	-0.066	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.005	Depositor
Recommended contour level	0.023	Depositor
Map size (Å)	426.24, 426.24, 426.24	wwPDB
Map dimensions	384, 384, 384	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.11, 1.11, 1.11	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	A	0.53	0/18078	0.54	1/24569 (0.0%)
1	B	0.53	0/18078	0.54	1/24569 (0.0%)
1	C	0.53	0/18078	0.54	1/24569 (0.0%)
1	D	0.53	0/18078	0.54	1/24569 (0.0%)
1	E	0.53	0/18078	0.54	1/24569 (0.0%)
All	All	0.53	0/90390	0.54	5/122845 (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	2
1	B	0	2
1	C	0	2
1	D	0	2
1	E	0	2
All	All	0	10

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	906	GLN	CA-CB-CG	7.66	130.26	113.40
1	C	906	GLN	CA-CB-CG	7.66	130.25	113.40
1	B	906	GLN	CA-CB-CG	7.66	130.25	113.40
1	A	906	GLN	CA-CB-CG	7.65	130.22	113.40
1	D	906	GLN	CA-CB-CG	7.64	130.21	113.40

There are no chirality outliers.

All (10) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1560	TRP	Peptide
1	A	1722	VAL	Peptide
1	B	1560	TRP	Peptide
1	B	1722	VAL	Peptide
1	C	1560	TRP	Peptide
1	C	1722	VAL	Peptide
1	D	1560	TRP	Peptide
1	D	1722	VAL	Peptide
1	E	1560	TRP	Peptide
1	E	1722	VAL	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	17740	0	17523	523	0
1	B	17740	0	17523	504	0
1	C	17740	0	17523	510	0
1	D	17740	0	17523	532	0
1	E	17740	0	17523	550	0
All	All	88700	0	87615	2432	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 14.

All (2432) 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:D:325:GLY:HA2	1:E:1865:ILE:HD11	1.38	1.04
1:B:1713:THR:HG22	1:B:1715:ALA:H	1.38	0.89
1:C:1713:THR:HG22	1:C:1715:ALA:H	1.38	0.87
1:A:1713:THR:HG22	1:A:1715:ALA:H	1.38	0.87
1:E:1713:THR:HG22	1:E:1715:ALA:H	1.37	0.86
1:D:1713:THR:HG22	1:D:1715:ALA:H	1.37	0.85
1:B:325:GLY:HA2	1:C:1865:ILE:HD11	1.56	0.85
1:A:1566:ARG:NH2	1:A:1597:PRO:O	2.10	0.85
1:B:1566:ARG:NH2	1:B:1597:PRO:O	2.10	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1566:ARG:NH2	1:C:1597:PRO:O	2.10	0.85
1:D:1001:LYS:HG3	1:E:1849:MET:HE1	1.58	0.85
1:D:1566:ARG:NH2	1:D:1597:PRO:O	2.10	0.84
1:D:2325:GLY:HA2	1:D:2340:ASP:HA	1.60	0.84
1:E:1566:ARG:NH2	1:E:1597:PRO:O	2.10	0.84
1:A:2325:GLY:HA2	1:A:2340:ASP:HA	1.60	0.84
1:B:2325:GLY:HA2	1:B:2340:ASP:HA	1.60	0.83
1:E:2325:GLY:HA2	1:E:2340:ASP:HA	1.60	0.83
1:C:2325:GLY:HA2	1:C:2340:ASP:HA	1.60	0.83
1:B:1542:VAL:HG22	1:B:1543:GLN:HG2	1.61	0.82
1:D:1279:ASN:HB3	1:D:1528:ALA:HB2	1.61	0.82
1:B:1279:ASN:HB3	1:B:1528:ALA:HB2	1.61	0.82
1:C:1279:ASN:HB3	1:C:1528:ALA:HB2	1.61	0.82
1:E:1279:ASN:HB3	1:E:1528:ALA:HB2	1.61	0.82
1:C:1542:VAL:HG22	1:C:1543:GLN:HG2	1.61	0.82
1:A:1542:VAL:HG22	1:A:1543:GLN:HG2	1.61	0.81
1:D:1542:VAL:HG22	1:D:1543:GLN:HG2	1.61	0.81
1:E:1542:VAL:HG22	1:E:1543:GLN:HG2	1.61	0.81
1:A:196:SER:OG	1:A:199:THR:OG1	1.99	0.81
1:B:196:SER:OG	1:B:199:THR:OG1	1.99	0.81
1:E:196:SER:OG	1:E:199:THR:OG1	1.99	0.81
1:D:196:SER:OG	1:D:199:THR:OG1	1.99	0.80
1:A:1279:ASN:HB3	1:A:1528:ALA:HB2	1.61	0.80
1:C:196:SER:OG	1:C:199:THR:OG1	1.99	0.80
1:A:1826:ASP:OD1	1:A:1924:TYR:OH	2.00	0.79
1:A:2420:ASN:OD1	1:E:2416:ARG:NH1	2.14	0.79
1:E:1826:ASP:OD1	1:E:1924:TYR:OH	2.00	0.79
1:A:2048:LYS:NZ	1:E:2176:GLU:OE1	2.13	0.79
1:E:1613:ASP:H	1:E:1617:HIS:HD2	1.31	0.79
1:D:1826:ASP:OD1	1:D:1924:TYR:OH	2.00	0.78
1:A:1613:ASP:H	1:A:1617:HIS:HD2	1.31	0.78
1:B:1826:ASP:OD1	1:B:1924:TYR:OH	2.00	0.78
1:A:325:GLY:HA2	1:B:1865:ILE:HD11	1.64	0.78
1:C:1510:ASN:HB2	1:C:1538:LYS:HE3	1.66	0.78
1:D:1613:ASP:H	1:D:1617:HIS:HD2	1.31	0.78
1:D:1510:ASN:HB2	1:D:1538:LYS:HE3	1.65	0.78
1:B:1613:ASP:H	1:B:1617:HIS:HD2	1.31	0.78
1:C:1613:ASP:H	1:C:1617:HIS:HD2	1.31	0.78
1:A:710:ILE:HG22	1:A:712:GLU:H	1.49	0.78
1:B:1510:ASN:HB2	1:B:1538:LYS:HE3	1.65	0.78
1:E:510:GLY:HA2	1:E:593:ARG:HG3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1510:ASN:HB2	1:A:1538:LYS:HE3	1.65	0.78
1:B:710:ILE:HG22	1:B:712:GLU:H	1.49	0.77
1:B:803:ARG:NH2	1:B:863:ASP:OD1	2.17	0.77
1:C:510:GLY:HA2	1:C:593:ARG:HG3	1.65	0.77
1:E:1510:ASN:HB2	1:E:1538:LYS:HE3	1.65	0.77
1:C:1826:ASP:OD1	1:C:1924:TYR:OH	2.00	0.77
1:D:510:GLY:HA2	1:D:593:ARG:HG3	1.65	0.77
1:E:710:ILE:HG22	1:E:712:GLU:H	1.49	0.77
1:A:2277:LEU:HD21	1:E:2229:ARG:HD2	1.65	0.77
1:B:721:LEU:HD13	1:B:759:LEU:HD23	1.67	0.77
1:D:710:ILE:HG22	1:D:712:GLU:H	1.49	0.76
1:E:803:ARG:NH2	1:E:863:ASP:OD1	2.17	0.76
1:C:803:ARG:NH2	1:C:863:ASP:OD1	2.17	0.76
1:E:289:PRO:HG2	1:E:292:ASP:HB2	1.68	0.76
1:D:289:PRO:HG2	1:D:292:ASP:HB2	1.68	0.76
1:A:803:ARG:NH2	1:A:863:ASP:OD1	2.17	0.76
1:D:803:ARG:NH2	1:D:863:ASP:OD1	2.17	0.76
1:C:289:PRO:HG2	1:C:292:ASP:HB2	1.68	0.76
1:C:721:LEU:HD13	1:C:759:LEU:HD23	1.67	0.76
1:B:510:GLY:HA2	1:B:593:ARG:HG3	1.65	0.76
1:C:710:ILE:HG22	1:C:712:GLU:H	1.49	0.76
1:A:510:GLY:HA2	1:A:593:ARG:HG3	1.65	0.76
1:B:289:PRO:HG2	1:B:292:ASP:HB2	1.68	0.76
1:A:721:LEU:HD13	1:A:759:LEU:HD23	1.67	0.75
1:C:325:GLY:HA2	1:D:1865:ILE:HD11	1.68	0.75
1:A:289:PRO:HG2	1:A:292:ASP:HB2	1.68	0.75
1:E:721:LEU:HD13	1:E:759:LEU:HD23	1.67	0.75
1:D:721:LEU:HD13	1:D:759:LEU:HD23	1.67	0.74
1:D:2223:LEU:HB2	1:E:2270:MET:SD	2.27	0.74
1:D:2415:PHE:CE2	1:E:2465:ARG:HB3	2.23	0.74
1:E:376:TYR:HB3	1:E:381:ASN:HB3	1.71	0.73
1:A:2273:GLU:HG3	1:E:2001:PHE:CE1	2.23	0.73
1:C:376:TYR:HB3	1:C:381:ASN:HB3	1.71	0.72
1:A:38:ASN:HB3	1:A:41:ARG:HB2	1.71	0.72
1:D:376:TYR:HB3	1:D:381:ASN:HB3	1.71	0.72
1:B:376:TYR:HB3	1:B:381:ASN:HB3	1.71	0.72
1:A:376:TYR:HB3	1:A:381:ASN:HB3	1.71	0.72
1:C:878:LEU:HA	1:C:895:LEU:HD11	1.72	0.72
1:E:38:ASN:HB3	1:E:41:ARG:HB2	1.71	0.72
1:A:934:ASN:HD22	1:A:937:ALA:HB2	1.55	0.72
1:B:250:GLU:O	1:B:452:LYS:NZ	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:934:ASN:HD22	1:B:937:ALA:HB2	1.55	0.72
1:E:250:GLU:O	1:E:452:LYS:NZ	2.23	0.72
1:E:547:GLU:O	1:E:555:ARG:NH2	2.23	0.72
1:C:934:ASN:HD22	1:C:937:ALA:HB2	1.55	0.72
1:D:1833:ASP:OD1	1:D:1851:TYR:OH	2.08	0.72
1:A:250:GLU:O	1:A:452:LYS:NZ	2.23	0.71
1:A:547:GLU:O	1:A:555:ARG:NH2	2.23	0.71
1:C:766:ILE:HG12	1:C:771:LEU:HD11	1.72	0.71
1:D:38:ASN:HB3	1:D:41:ARG:HB2	1.71	0.71
1:A:1613:ASP:H	1:A:1617:HIS:CD2	2.09	0.71
1:A:1756:ARG:NH1	1:E:2075:GLU:OE2	2.22	0.71
1:B:878:LEU:HA	1:B:895:LEU:HD11	1.72	0.71
1:B:1613:ASP:H	1:B:1617:HIS:CD2	2.09	0.71
1:C:1833:ASP:OD1	1:C:1851:TYR:OH	2.08	0.71
1:C:997:ASP:OD1	1:D:1767:ASN:ND2	2.23	0.71
1:E:2309:ASP:HB3	1:E:2311:VAL:HG12	1.73	0.71
1:D:878:LEU:HA	1:D:895:LEU:HD11	1.72	0.71
1:A:2309:ASP:HB3	1:A:2311:VAL:HG12	1.73	0.71
1:D:250:GLU:O	1:D:452:LYS:NZ	2.23	0.71
1:C:250:GLU:O	1:C:452:LYS:NZ	2.23	0.71
1:D:934:ASN:HD22	1:D:937:ALA:HB2	1.55	0.71
1:D:2309:ASP:HB3	1:D:2311:VAL:HG12	1.73	0.71
1:C:202:ASN:HB2	1:C:205:PHE:HB3	1.73	0.71
1:D:202:ASN:HB2	1:D:205:PHE:HB3	1.73	0.71
1:E:766:ILE:HG12	1:E:771:LEU:HD11	1.72	0.71
1:E:934:ASN:HD22	1:E:937:ALA:HB2	1.55	0.71
1:A:1994:LEU:HD12	1:A:2237:ARG:HG3	1.73	0.71
1:B:38:ASN:HB3	1:B:41:ARG:HB2	1.70	0.71
1:D:766:ILE:HG12	1:D:771:LEU:HD11	1.72	0.71
1:D:2137:THR:HG23	1:E:2082:LEU:HD22	1.72	0.71
1:E:2448:GLU:HG3	1:E:2450:GLN:H	1.56	0.71
1:D:1613:ASP:H	1:D:1617:HIS:CD2	2.09	0.71
1:D:2142:ASP:OD2	1:E:2083:TYR:OH	2.09	0.71
1:E:1833:ASP:OD1	1:E:1851:TYR:OH	2.08	0.71
1:A:1767:ASN:ND2	1:E:997:ASP:OD1	2.22	0.70
1:B:2366:ARG:HG2	1:B:2468:ILE:HG12	1.73	0.70
1:C:38:ASN:HB3	1:C:41:ARG:HB2	1.71	0.70
1:A:202:ASN:HB2	1:A:205:PHE:HB3	1.73	0.70
1:A:1015:TYR:OH	1:A:1916:GLN:O	2.09	0.70
1:A:122:GLU:OE1	1:A:125:ARG:NH2	2.25	0.70
1:C:2366:ARG:HG2	1:C:2468:ILE:HG12	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:547:GLU:O	1:C:555:ARG:NH2	2.23	0.70
1:D:2366:ARG:HG2	1:D:2468:ILE:HG12	1.74	0.70
1:E:1613:ASP:H	1:E:1617:HIS:CD2	2.09	0.70
1:B:202:ASN:HB2	1:B:205:PHE:HB3	1.73	0.70
1:C:2448:GLU:HG3	1:C:2450:GLN:H	1.56	0.70
1:E:1015:TYR:OH	1:E:1916:GLN:O	2.09	0.70
1:B:2309:ASP:HB3	1:B:2311:VAL:HG12	1.73	0.70
1:E:2366:ARG:HG2	1:E:2468:ILE:HG12	1.74	0.70
1:A:2366:ARG:HG2	1:A:2468:ILE:HG12	1.74	0.70
1:D:1994:LEU:HD12	1:D:2237:ARG:HG3	1.73	0.70
1:E:122:GLU:OE1	1:E:125:ARG:NH2	2.25	0.70
1:A:766:ILE:HG12	1:A:771:LEU:HD11	1.72	0.70
1:A:2145:SER:OG	1:B:2146:GLN:NE2	2.25	0.70
1:B:1994:LEU:HD12	1:B:2237:ARG:HG3	1.73	0.70
1:C:2102:ALA:HB2	1:E:1093:PRO:HG3	1.73	0.70
1:C:2309:ASP:HB3	1:C:2311:VAL:HG12	1.73	0.70
1:E:878:LEU:HA	1:E:895:LEU:HD11	1.72	0.70
1:B:1833:ASP:OD1	1:B:1851:TYR:OH	2.08	0.70
1:B:2448:GLU:HG3	1:B:2450:GLN:H	1.56	0.70
1:C:1613:ASP:H	1:C:1617:HIS:CD2	2.09	0.70
1:D:2222:ARG:NH2	1:E:2261:ALA:O	2.25	0.70
1:B:122:GLU:OE1	1:B:125:ARG:NH2	2.25	0.69
1:C:1994:LEU:HD12	1:C:2237:ARG:HG3	1.73	0.69
1:E:703:THR:HG23	1:E:708:LEU:HB2	1.74	0.69
1:A:537:TYR:OH	1:A:587:ASN:OD1	2.11	0.69
1:D:1015:TYR:OH	1:D:1916:GLN:O	2.09	0.69
1:B:547:GLU:O	1:B:555:ARG:NH2	2.23	0.69
1:D:2448:GLU:HG3	1:D:2450:GLN:H	1.56	0.69
1:A:878:LEU:HA	1:A:895:LEU:HD11	1.72	0.69
1:A:2448:GLU:HG3	1:A:2450:GLN:H	1.56	0.69
1:D:122:GLU:OE1	1:D:125:ARG:NH2	2.25	0.69
1:D:1001:LYS:HG3	1:E:1849:MET:CE	2.22	0.69
1:D:2347:PHE:H	1:D:2438:LEU:H	1.40	0.69
1:E:202:ASN:HB2	1:E:205:PHE:HB3	1.73	0.69
1:E:1994:LEU:HD12	1:E:2237:ARG:HG3	1.73	0.69
1:A:1833:ASP:OD1	1:A:1851:TYR:OH	2.08	0.69
1:C:685:GLY:H	1:D:2229:ARG:CZ	2.06	0.69
1:A:703:THR:HG23	1:A:708:LEU:HB2	1.74	0.69
1:B:766:ILE:HG12	1:B:771:LEU:HD11	1.72	0.69
1:C:122:GLU:OE1	1:C:125:ARG:NH2	2.25	0.69
1:C:2347:PHE:H	1:C:2438:LEU:H	1.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:703:THR:HG23	1:D:708:LEU:HB2	1.74	0.69
1:B:1610:LYS:HD2	1:B:1718:ALA:HB3	1.75	0.69
1:D:547:GLU:O	1:D:555:ARG:NH2	2.23	0.69
1:B:1015:TYR:OH	1:B:1916:GLN:O	2.09	0.69
1:C:537:TYR:OH	1:C:587:ASN:OD1	2.11	0.69
1:C:1015:TYR:OH	1:C:1916:GLN:O	2.09	0.69
1:D:1610:LYS:HD2	1:D:1718:ALA:HB3	1.75	0.69
1:A:322:ILE:HG22	1:A:328:ILE:HG12	1.76	0.68
1:B:2145:SER:OG	1:C:2146:GLN:NE2	2.27	0.68
1:D:2415:PHE:CZ	1:E:2465:ARG:HB3	2.28	0.68
1:E:2347:PHE:H	1:E:2438:LEU:H	1.39	0.68
1:A:1610:LYS:HD2	1:A:1718:ALA:HB3	1.75	0.68
1:C:1610:LYS:HD2	1:C:1718:ALA:HB3	1.75	0.68
1:C:2403:ILE:HG12	1:C:2413:GLY:HA3	1.75	0.68
1:D:1132:MET:HB3	1:D:1197:LEU:HD23	1.75	0.68
1:D:1997:GLN:HG2	1:E:2276:LEU:HD21	1.72	0.68
1:E:2403:ILE:HG12	1:E:2413:GLY:HA3	1.75	0.68
1:B:322:ILE:HG22	1:B:328:ILE:HG12	1.75	0.68
1:E:1628:SER:HB2	1:E:1636:LYS:HB3	1.76	0.68
1:B:537:TYR:OH	1:B:587:ASN:OD1	2.11	0.68
1:B:1628:SER:HB2	1:B:1636:LYS:HB3	1.76	0.68
1:D:2226:ILE:HG23	1:E:2277:LEU:HB2	1.75	0.68
1:E:322:ILE:HG22	1:E:328:ILE:HG12	1.75	0.68
1:A:2347:PHE:H	1:A:2438:LEU:H	1.39	0.68
1:C:703:THR:HG23	1:C:708:LEU:HB2	1.74	0.68
1:C:2058:GLN:HA	1:C:2168:ILE:HD11	1.76	0.68
1:B:2347:PHE:H	1:B:2438:LEU:H	1.40	0.68
1:D:1628:SER:HB2	1:D:1636:LYS:HB3	1.76	0.68
1:D:2058:GLN:HA	1:D:2168:ILE:HD11	1.76	0.68
1:E:1132:MET:HB3	1:E:1197:LEU:HD23	1.75	0.68
1:E:1610:LYS:HD2	1:E:1718:ALA:HB3	1.75	0.68
1:A:2242:GLU:OE2	1:A:2256:TYR:N	2.26	0.68
1:A:2403:ILE:HG12	1:A:2413:GLY:HA3	1.75	0.68
1:D:322:ILE:HG22	1:D:328:ILE:HG12	1.75	0.68
1:D:2403:ILE:HG12	1:D:2413:GLY:HA3	1.75	0.68
1:B:703:THR:HG23	1:B:708:LEU:HB2	1.74	0.67
1:B:1132:MET:HB3	1:B:1197:LEU:HD23	1.75	0.67
1:C:2242:GLU:OE2	1:C:2256:TYR:N	2.26	0.67
1:D:2242:GLU:OE2	1:D:2256:TYR:N	2.26	0.67
1:A:1865:ILE:HA	1:E:294:GLN:HE22	1.59	0.67
1:A:1628:SER:HB2	1:A:1636:LYS:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2403:ILE:HG12	1:B:2413:GLY:HA3	1.75	0.67
1:C:1132:MET:HB3	1:C:1197:LEU:HD23	1.75	0.67
1:C:322:ILE:HG22	1:C:328:ILE:HG12	1.75	0.67
1:A:1132:MET:HB3	1:A:1197:LEU:HD23	1.75	0.67
1:C:2389:PHE:HB3	1:C:2403:ILE:HG22	1.77	0.67
1:B:2058:GLN:HA	1:B:2168:ILE:HD11	1.76	0.67
1:E:2389:PHE:HB3	1:E:2403:ILE:HG22	1.77	0.67
1:A:2216:TYR:OH	1:B:2010:GLU:OE1	2.13	0.67
1:C:1628:SER:HB2	1:C:1636:LYS:HB3	1.76	0.67
1:D:2389:PHE:HB3	1:D:2403:ILE:HG22	1.77	0.67
1:E:153:GLN:NE2	1:E:157:ASP:OD2	2.28	0.67
1:A:153:GLN:NE2	1:A:157:ASP:OD2	2.28	0.67
1:D:2001:PHE:CE1	1:E:2273:GLU:HG3	2.30	0.67
1:C:153:GLN:NE2	1:C:157:ASP:OD2	2.28	0.66
1:D:153:GLN:NE2	1:D:157:ASP:OD2	2.28	0.66
1:E:2242:GLU:OE2	1:E:2256:TYR:N	2.26	0.66
1:A:2389:PHE:HB3	1:A:2403:ILE:HG22	1.77	0.66
1:B:2075:GLU:OE2	1:C:1756:ARG:NH1	2.27	0.66
1:E:2058:GLN:HA	1:E:2168:ILE:HD11	1.76	0.66
1:D:2237:ARG:HH22	1:E:2283:GLU:CD	1.99	0.66
1:B:153:GLN:NE2	1:B:157:ASP:OD2	2.28	0.66
1:B:2329:ILE:HG21	1:B:2344:HIS:HB3	1.78	0.66
1:B:2389:PHE:HB3	1:B:2403:ILE:HG22	1.77	0.66
1:A:1950:VAL:HG13	1:E:906:GLN:NE2	2.11	0.66
1:A:1219:THR:HG21	1:A:1251:LEU:HB3	1.78	0.66
1:C:1614:LYS:H	1:C:1614:LYS:HD2	1.61	0.66
1:E:726:PRO:HG2	1:E:729:ILE:HD12	1.78	0.66
1:C:344:ASP:HB3	1:C:362:VAL:HA	1.78	0.66
1:D:2388:ILE:HG13	1:E:2362:LEU:HD11	1.77	0.66
1:A:726:PRO:HG2	1:A:729:ILE:HD12	1.78	0.65
1:A:1630:ASP:HB3	1:A:1678:TYR:CD2	2.31	0.65
1:A:2058:GLN:HA	1:A:2168:ILE:HD11	1.76	0.65
1:A:2229:ARG:HD2	1:B:2277:LEU:HD21	1.77	0.65
1:C:1025:ARG:NH2	1:C:1744:GLU:OE2	2.30	0.65
1:B:1630:ASP:HB3	1:B:1678:TYR:CD2	2.31	0.65
1:D:344:ASP:HB3	1:D:362:VAL:HA	1.78	0.65
1:E:709:ASP:OD1	1:E:709:ASP:N	2.30	0.65
1:A:2329:ILE:HG21	1:A:2344:HIS:HB3	1.78	0.65
1:B:344:ASP:HB3	1:B:362:VAL:HA	1.78	0.65
1:B:1025:ARG:NH2	1:B:1744:GLU:OE2	2.30	0.65
1:D:1630:ASP:HB3	1:D:1678:TYR:CD2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1972:LYS:NZ	1:E:2232:ASP:OD1	2.30	0.65
1:D:1614:LYS:H	1:D:1614:LYS:HD2	1.61	0.65
1:D:2223:LEU:N	1:E:2270:MET:HE1	2.11	0.65
1:E:1630:ASP:HB3	1:E:1678:TYR:CD2	2.31	0.65
1:E:2329:ILE:HG21	1:E:2344:HIS:HB3	1.78	0.65
1:A:301:ILE:HG23	1:A:302:THR:HG23	1.79	0.65
1:B:2242:GLU:OE2	1:B:2256:TYR:N	2.26	0.65
1:E:301:ILE:HG23	1:E:302:THR:HG23	1.79	0.65
1:A:1614:LYS:H	1:A:1614:LYS:HD2	1.61	0.65
1:B:1614:LYS:H	1:B:1614:LYS:HD2	1.61	0.65
1:E:1614:LYS:H	1:E:1614:LYS:HD2	1.61	0.65
1:C:1219:THR:HG21	1:C:1251:LEU:HB3	1.78	0.65
1:D:1972:LYS:NZ	1:D:2232:ASP:OD1	2.30	0.65
1:C:1972:LYS:NZ	1:C:2232:ASP:OD1	2.30	0.65
1:D:726:PRO:HG2	1:D:729:ILE:HD12	1.78	0.65
1:D:1481:PRO:HB2	1:D:1492:LEU:HD22	1.79	0.65
1:D:2229:ARG:HD2	1:E:2277:LEU:HD21	1.79	0.65
1:E:1219:THR:HG21	1:E:1251:LEU:HB3	1.78	0.65
1:A:349:ILE:HB	1:A:357:LEU:HB2	1.79	0.65
1:A:1040:SER:OG	1:E:2078:ARG:NH1	2.29	0.64
1:A:1972:LYS:NZ	1:A:2232:ASP:OD1	2.30	0.64
1:C:349:ILE:HB	1:C:357:LEU:HB2	1.79	0.64
1:D:2329:ILE:HG21	1:D:2344:HIS:HB3	1.78	0.64
1:C:726:PRO:HG2	1:C:729:ILE:HD12	1.78	0.64
1:D:2414:LEU:HA	1:E:2295:GLU:OE2	1.97	0.64
1:E:537:TYR:OH	1:E:587:ASN:OD1	2.11	0.64
1:E:1481:PRO:HB2	1:E:1492:LEU:HD22	1.79	0.64
1:B:726:PRO:HG2	1:B:729:ILE:HD12	1.78	0.64
1:B:1972:LYS:NZ	1:B:2232:ASP:OD1	2.30	0.64
1:C:1630:ASP:HB3	1:C:1678:TYR:CD2	2.32	0.64
1:C:2075:GLU:OE2	1:D:1756:ARG:NH1	2.31	0.64
1:D:1219:THR:HG21	1:D:1251:LEU:HB3	1.78	0.64
1:E:344:ASP:HB3	1:E:362:VAL:HA	1.78	0.64
1:E:349:ILE:HB	1:E:357:LEU:HB2	1.79	0.64
1:A:344:ASP:HB3	1:A:362:VAL:HA	1.78	0.64
1:A:1481:PRO:HB2	1:A:1492:LEU:HD22	1.79	0.64
1:B:1927:MET:SD	1:B:1931:ARG:NH1	2.71	0.64
1:C:375:GLY:N	1:C:415:GLY:O	2.31	0.64
1:C:2329:ILE:HG21	1:C:2344:HIS:HB3	1.78	0.64
1:D:349:ILE:HB	1:D:357:LEU:HB2	1.79	0.64
1:D:1786:VAL:HG12	1:D:1788:PRO:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:167:ASN:ND2	1:A:916:GLU:OE2	2.31	0.64
1:C:1786:VAL:HG12	1:C:1788:PRO:HD2	1.80	0.64
1:D:2343:LEU:HB3	1:D:2442:PHE:HB2	1.80	0.64
1:E:1927:MET:SD	1:E:1931:ARG:NH1	2.71	0.64
1:A:973:ASN:HD21	1:B:1849:MET:CE	2.11	0.64
1:A:1927:MET:SD	1:A:1931:ARG:NH1	2.71	0.64
1:E:375:GLY:N	1:E:415:GLY:O	2.31	0.64
1:C:301:ILE:HG23	1:C:302:THR:HG23	1.79	0.64
1:E:167:ASN:ND2	1:E:916:GLU:OE2	2.31	0.64
1:B:301:ILE:HG23	1:B:302:THR:HG23	1.79	0.64
1:B:349:ILE:HB	1:B:357:LEU:HB2	1.79	0.64
1:C:1481:PRO:HB2	1:C:1492:LEU:HD22	1.79	0.64
1:D:821:THR:HG22	1:D:824:ILE:HG12	1.80	0.64
1:A:821:THR:HG22	1:A:824:ILE:HG12	1.80	0.63
1:B:1481:PRO:HB2	1:B:1492:LEU:HD22	1.79	0.63
1:B:1786:VAL:HG12	1:B:1788:PRO:HD2	1.80	0.63
1:C:1927:MET:SD	1:C:1931:ARG:NH1	2.71	0.63
1:D:2229:ARG:HG3	1:E:2277:LEU:HD11	1.80	0.63
1:E:1025:ARG:NH2	1:E:1744:GLU:OE2	2.30	0.63
1:B:821:THR:HG22	1:B:824:ILE:HG12	1.80	0.63
1:C:167:ASN:ND2	1:C:916:GLU:OE2	2.31	0.63
1:D:301:ILE:HG23	1:D:302:THR:HG23	1.79	0.63
1:D:1927:MET:SD	1:D:1931:ARG:NH1	2.71	0.63
1:C:2343:LEU:HB3	1:C:2442:PHE:HB2	1.80	0.63
1:D:167:ASN:ND2	1:D:916:GLU:OE2	2.31	0.63
1:B:1219:THR:HG21	1:B:1251:LEU:HB3	1.78	0.63
1:E:1786:VAL:HG12	1:E:1788:PRO:HD2	1.80	0.63
1:E:2343:LEU:HB3	1:E:2442:PHE:HB2	1.80	0.63
1:B:167:ASN:ND2	1:B:916:GLU:OE2	2.31	0.63
1:C:821:THR:HG22	1:C:824:ILE:HG12	1.80	0.63
1:D:322:ILE:HG12	1:E:1867:SER:HB2	1.80	0.63
1:E:821:THR:HG22	1:E:824:ILE:HG12	1.80	0.63
1:B:2343:LEU:HB3	1:B:2442:PHE:HB2	1.80	0.63
1:A:1786:VAL:HG12	1:A:1788:PRO:HD2	1.80	0.63
1:D:537:TYR:OH	1:D:587:ASN:OD1	2.11	0.63
1:C:1049:LEU:HD21	1:C:1757:LEU:HD11	1.81	0.63
1:A:375:GLY:N	1:A:415:GLY:O	2.31	0.62
1:A:1025:ARG:NH2	1:A:1744:GLU:OE2	2.30	0.62
1:D:375:GLY:N	1:D:415:GLY:O	2.31	0.62
1:A:546:MET:HG3	1:A:573:LEU:HD22	1.81	0.62
1:A:2142:ASP:OD2	1:B:2083:TYR:OH	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1049:LEU:HD21	1:B:1757:LEU:HD11	1.81	0.62
1:C:142:ARG:NH2	1:C:980:GLU:OE1	2.25	0.62
1:E:2306:TYR:HB3	1:E:2312:THR:HA	1.81	0.62
1:D:546:MET:HG3	1:D:573:LEU:HD22	1.81	0.62
1:A:21:VAL:O	1:A:1885:LYS:NZ	2.33	0.62
1:A:2079:THR:HG21	1:E:2145:SER:OG	1.99	0.62
1:B:142:ARG:NH2	1:B:980:GLU:OE1	2.25	0.62
1:B:375:GLY:N	1:B:415:GLY:O	2.31	0.62
1:D:1025:ARG:NH2	1:D:1744:GLU:OE2	2.30	0.62
1:A:2010:GLU:OE1	1:E:2216:TYR:OH	2.17	0.62
1:D:61:ASN:OD1	1:D:1895:ARG:NH1	2.33	0.62
1:D:1049:LEU:HD21	1:D:1757:LEU:HD11	1.81	0.62
1:E:1612:TYR:HB3	1:E:1646:VAL:HG12	1.82	0.62
1:E:21:VAL:O	1:E:1885:LYS:NZ	2.33	0.62
1:E:61:ASN:OD1	1:E:1895:ARG:NH1	2.33	0.62
1:A:572:LEU:HD12	1:A:609:VAL:HG11	1.81	0.62
1:A:1037:GLU:HG2	1:E:2082:LEU:HD11	1.82	0.62
1:A:1049:LEU:HD21	1:A:1757:LEU:HD11	1.81	0.62
1:A:2306:TYR:HB3	1:A:2312:THR:HA	1.81	0.62
1:D:21:VAL:O	1:D:1885:LYS:NZ	2.33	0.62
1:A:709:ASP:OD1	1:A:709:ASP:N	2.30	0.61
1:B:546:MET:HG3	1:B:573:LEU:HD22	1.81	0.61
1:D:2123:PRO:HB2	1:E:2100:ALA:HB2	1.82	0.61
1:D:2344:HIS:HE1	1:D:2346:ALA:HB2	1.65	0.61
1:A:2344:HIS:HE1	1:A:2346:ALA:HB2	1.65	0.61
1:B:1695:ARG:NH2	1:B:1699:ASN:O	2.33	0.61
1:B:2001:PHE:CE1	1:C:2273:GLU:HG3	2.36	0.61
1:C:1695:ARG:NH2	1:C:1699:ASN:O	2.33	0.61
1:A:2343:LEU:HB3	1:A:2442:PHE:HB2	1.80	0.61
1:C:572:LEU:HD12	1:C:609:VAL:HG11	1.81	0.61
1:C:2306:TYR:HB3	1:C:2312:THR:HA	1.81	0.61
1:A:422:GLU:HB3	1:A:423:PRO:HD3	1.82	0.61
1:A:2433:ASP:N	1:A:2433:ASP:OD1	2.33	0.61
1:B:61:ASN:OD1	1:B:1895:ARG:NH1	2.33	0.61
1:B:2306:TYR:HB3	1:B:2312:THR:HA	1.81	0.61
1:D:739:ILE:HG12	1:D:752:LEU:HD21	1.82	0.61
1:E:422:GLU:HB3	1:E:423:PRO:HD3	1.82	0.61
1:E:527:PHE:O	1:E:560:ARG:NH2	2.33	0.61
1:A:61:ASN:OD1	1:A:1895:ARG:NH1	2.33	0.61
1:A:527:PHE:O	1:A:560:ARG:NH2	2.33	0.61
1:C:21:VAL:O	1:C:1885:LYS:NZ	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:61:ASN:OD1	1:C:1895:ARG:NH1	2.33	0.61
1:C:1462:ILE:HD13	1:C:1501:ILE:HG21	1.83	0.61
1:B:21:VAL:O	1:B:1885:LYS:NZ	2.33	0.61
1:B:527:PHE:O	1:B:560:ARG:NH2	2.33	0.61
1:D:2141:ALA:HB1	1:E:2079:THR:HG23	1.82	0.61
1:E:546:MET:HG3	1:E:573:LEU:HD22	1.81	0.61
1:E:999:CYS:O	1:E:1005:THR:OG1	2.18	0.61
1:A:1695:ARG:NH2	1:A:1699:ASN:O	2.33	0.61
1:B:1045:ASN:OD1	1:B:1048:THR:HG22	2.01	0.61
1:D:1462:ILE:HD13	1:D:1501:ILE:HG21	1.83	0.61
1:D:2306:TYR:HB3	1:D:2312:THR:HA	1.81	0.61
1:E:739:ILE:HG12	1:E:752:LEU:HD21	1.82	0.61
1:E:2344:HIS:CD2	1:E:2439:THR:HG23	2.36	0.61
1:A:1744:GLU:HA	1:A:1748:TYR:HB2	1.82	0.61
1:A:2344:HIS:CD2	1:A:2439:THR:HG23	2.36	0.61
1:C:1045:ASN:OD1	1:C:1048:THR:HG22	2.01	0.61
1:D:572:LEU:HD12	1:D:609:VAL:HG11	1.81	0.61
1:E:1049:LEU:HD21	1:E:1757:LEU:HD11	1.81	0.61
1:A:739:ILE:HG12	1:A:752:LEU:HD21	1.82	0.61
1:A:1045:ASN:OD1	1:A:1048:THR:HG22	2.01	0.61
1:B:2344:HIS:CD2	1:B:2439:THR:HG23	2.36	0.61
1:C:739:ILE:HG12	1:C:752:LEU:HD21	1.82	0.61
1:E:572:LEU:HD12	1:E:609:VAL:HG11	1.82	0.61
1:E:1521:LYS:HG2	1:E:1529:THR:HB	1.82	0.61
1:B:572:LEU:HD12	1:B:609:VAL:HG11	1.82	0.61
1:B:665:ILE:HG13	1:B:729:ILE:HD11	1.83	0.61
1:C:1521:LYS:HG2	1:C:1529:THR:HB	1.82	0.61
1:D:665:ILE:HG13	1:D:729:ILE:HD11	1.83	0.61
1:D:1695:ARG:NH2	1:D:1699:ASN:O	2.33	0.61
1:B:739:ILE:HG12	1:B:752:LEU:HD21	1.82	0.60
1:B:1521:LYS:HG2	1:B:1529:THR:HB	1.82	0.60
1:B:1612:TYR:HB3	1:B:1646:VAL:HG12	1.82	0.60
1:C:546:MET:HG3	1:C:573:LEU:HD22	1.81	0.60
1:D:527:PHE:O	1:D:560:ARG:NH2	2.33	0.60
1:D:2344:HIS:CD2	1:D:2439:THR:HG23	2.36	0.60
1:E:1744:GLU:HA	1:E:1748:TYR:HB2	1.82	0.60
1:A:367:LYS:HG3	1:A:368:ASP:H	1.67	0.60
1:C:527:PHE:O	1:C:560:ARG:NH2	2.33	0.60
1:C:999:CYS:O	1:C:1005:THR:OG1	2.18	0.60
1:D:1045:ASN:OD1	1:D:1048:THR:HG22	2.01	0.60
1:C:1612:TYR:HB3	1:C:1646:VAL:HG12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2344:HIS:CD2	1:C:2439:THR:HG23	2.36	0.60
1:C:2344:HIS:HE1	1:C:2346:ALA:HB2	1.65	0.60
1:D:1521:LYS:HG2	1:D:1529:THR:HB	1.82	0.60
1:A:1521:LYS:HG2	1:A:1529:THR:HB	1.82	0.60
1:A:2146:GLN:NE2	1:E:2145:SER:OG	2.33	0.60
1:D:319:ILE:HG13	1:D:320:PRO:HD2	1.84	0.60
1:E:142:ARG:NH2	1:E:980:GLU:OE1	2.25	0.60
1:E:367:LYS:HG3	1:E:368:ASP:H	1.67	0.60
1:E:2344:HIS:HE1	1:E:2346:ALA:HB2	1.65	0.60
1:D:422:GLU:HB3	1:D:423:PRO:HD3	1.82	0.60
1:A:1612:TYR:HB3	1:A:1646:VAL:HG12	1.82	0.60
1:D:999:CYS:O	1:D:1005:THR:OG1	2.18	0.60
1:E:1695:ARG:NH2	1:E:1699:ASN:O	2.33	0.60
1:A:1462:ILE:HD13	1:A:1501:ILE:HG21	1.83	0.60
1:C:319:ILE:HG13	1:C:320:PRO:HD2	1.84	0.60
1:D:1744:GLU:HA	1:D:1748:TYR:HB2	1.82	0.60
1:D:2198:GLN:NE2	1:E:2027:GLU:OE2	2.31	0.60
1:B:367:LYS:HG3	1:B:368:ASP:H	1.66	0.60
1:B:2344:HIS:HE1	1:B:2346:ALA:HB2	1.65	0.60
1:D:1283:ASP:H	1:D:1307:THR:HG23	1.67	0.60
1:E:319:ILE:HG13	1:E:320:PRO:HD2	1.84	0.60
1:E:674:MET:O	1:E:678:LEU:HD12	2.02	0.60
1:A:665:ILE:HG13	1:A:729:ILE:HD11	1.83	0.60
1:D:367:LYS:HG3	1:D:368:ASP:H	1.66	0.60
1:E:199:THR:O	1:E:201:TYR:N	2.35	0.60
1:E:1283:ASP:H	1:E:1307:THR:HG23	1.67	0.60
1:A:999:CYS:O	1:A:1005:THR:OG1	2.18	0.59
1:A:1283:ASP:H	1:A:1307:THR:HG23	1.67	0.59
1:B:422:GLU:HB3	1:B:423:PRO:HD3	1.82	0.59
1:C:1992:ARG:NH2	1:C:2283:GLU:OE1	2.35	0.59
1:E:1045:ASN:OD1	1:E:1048:THR:HG22	2.01	0.59
1:E:1992:ARG:NH2	1:E:2283:GLU:OE1	2.35	0.59
1:D:674:MET:O	1:D:678:LEU:HD12	2.02	0.59
1:E:2433:ASP:OD1	1:E:2433:ASP:N	2.34	0.59
1:A:199:THR:O	1:A:201:TYR:N	2.35	0.59
1:B:1744:GLU:HA	1:B:1748:TYR:HB2	1.82	0.59
1:C:674:MET:O	1:C:678:LEU:HD12	2.02	0.59
1:E:1462:ILE:HD13	1:E:1501:ILE:HG21	1.83	0.59
1:A:1992:ARG:NH2	1:A:2283:GLU:OE1	2.35	0.59
1:B:319:ILE:HG13	1:B:320:PRO:HD2	1.84	0.59
1:C:422:GLU:HB3	1:C:423:PRO:HD3	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2060:ARG:NH2	1:B:2167:GLU:OE1	2.36	0.59
1:C:1744:GLU:HA	1:C:1748:TYR:HB2	1.82	0.59
1:E:220:PRO:HA	1:E:233:LEU:HD23	1.84	0.59
1:E:667:PRO:HB3	1:E:754:ALA:HB2	1.85	0.59
1:A:2344:HIS:CE1	1:A:2346:ALA:HB2	2.38	0.59
1:B:1462:ILE:HD13	1:B:1501:ILE:HG21	1.83	0.59
1:C:1283:ASP:H	1:C:1307:THR:HG23	1.67	0.59
1:D:2209:LYS:HB2	1:E:2013:ASP:OD1	2.03	0.59
1:A:2060:ARG:NH2	1:A:2167:GLU:OE1	2.36	0.59
1:B:199:THR:O	1:B:201:TYR:N	2.35	0.59
1:B:667:PRO:HB3	1:B:754:ALA:HB2	1.85	0.59
1:C:204:PRO:HB3	1:C:893:SER:HA	1.85	0.59
1:C:665:ILE:HG13	1:C:729:ILE:HD11	1.83	0.59
1:E:2406:SER:OG	1:E:2407:HIS:ND1	2.35	0.59
1:A:220:PRO:HA	1:A:233:LEU:HD23	1.84	0.59
1:B:457:ALA:HB2	1:B:467:THR:HG21	1.85	0.59
1:B:1992:ARG:NH2	1:B:2283:GLU:OE1	2.35	0.59
1:B:2082:LEU:HD11	1:C:1037:GLU:HG2	1.84	0.59
1:C:367:LYS:HG3	1:C:368:ASP:H	1.66	0.59
1:D:1992:ARG:NH2	1:D:2283:GLU:OE1	2.35	0.59
1:D:2344:HIS:CE1	1:D:2346:ALA:HB2	2.38	0.59
1:E:204:PRO:HB3	1:E:893:SER:HA	1.84	0.59
1:E:2344:HIS:CE1	1:E:2346:ALA:HB2	2.38	0.59
1:A:457:ALA:HB2	1:A:467:THR:HG21	1.85	0.59
1:A:667:PRO:HB3	1:A:754:ALA:HB2	1.85	0.59
1:B:256:THR:HG22	1:B:257:GLY:H	1.68	0.59
1:C:457:ALA:HB2	1:C:467:THR:HG21	1.85	0.59
1:D:800:LEU:HD23	1:D:855:LEU:HB3	1.85	0.59
1:D:1612:TYR:HB3	1:D:1646:VAL:HG12	1.82	0.59
1:A:1865:ILE:HA	1:E:294:GLN:NE2	2.18	0.59
1:B:999:CYS:O	1:B:1005:THR:OG1	2.18	0.59
1:C:667:PRO:HB3	1:C:754:ALA:HB2	1.85	0.59
1:C:900:GLN:HA	1:C:903:LEU:HD12	1.85	0.59
1:D:204:PRO:HB3	1:D:893:SER:HA	1.84	0.59
1:E:665:ILE:HG13	1:E:729:ILE:HD11	1.83	0.59
1:E:1310:ILE:HG13	1:E:1311:ASN:H	1.68	0.59
1:A:175:MET:HE1	1:A:183:LYS:HG2	1.85	0.58
1:B:674:MET:O	1:B:678:LEU:HD12	2.02	0.58
1:A:186:TYR:OH	1:A:926:GLU:OE1	2.19	0.58
1:A:319:ILE:HG13	1:A:320:PRO:HD2	1.84	0.58
1:A:674:MET:O	1:A:678:LEU:HD12	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:709:ASP:OD1	1:B:709:ASP:N	2.30	0.58
1:C:274:LYS:HA	1:C:277:MET:HG2	1.86	0.58
1:A:256:THR:HG22	1:A:257:GLY:H	1.68	0.58
1:B:1283:ASP:H	1:B:1307:THR:HG23	1.67	0.58
1:C:220:PRO:HA	1:C:233:LEU:HD23	1.84	0.58
1:C:2344:HIS:CE1	1:C:2346:ALA:HB2	2.38	0.58
1:B:1310:ILE:HG13	1:B:1311:ASN:H	1.68	0.58
1:B:2229:ARG:HD2	1:C:2277:LEU:HD21	1.85	0.58
1:C:800:LEU:HD23	1:C:855:LEU:HB3	1.85	0.58
1:C:2145:SER:OG	1:D:2146:GLN:NE2	2.36	0.58
1:D:199:THR:O	1:D:201:TYR:N	2.35	0.58
1:D:2060:ARG:NH2	1:D:2167:GLU:OE1	2.36	0.58
1:A:800:LEU:HD23	1:A:855:LEU:HB3	1.85	0.58
1:B:2344:HIS:CE1	1:B:2346:ALA:HB2	2.38	0.58
1:C:1310:ILE:HG13	1:C:1311:ASN:H	1.68	0.58
1:D:256:THR:HG22	1:D:257:GLY:H	1.68	0.58
1:E:175:MET:HE1	1:E:183:LYS:HG2	1.86	0.58
1:E:457:ALA:HB2	1:E:467:THR:HG21	1.85	0.58
1:B:2078:ARG:NH1	1:C:1040:SER:OG	2.36	0.58
1:C:256:THR:HG22	1:C:257:GLY:H	1.68	0.58
1:C:522:HIS:O	1:C:526:LEU:HB2	2.04	0.58
1:D:1735:SER:O	1:D:1735:SER:OG	2.21	0.58
1:E:522:HIS:O	1:E:526:LEU:HB2	2.04	0.58
1:E:800:LEU:HD23	1:E:855:LEU:HB3	1.85	0.58
1:E:2060:ARG:NH2	1:E:2167:GLU:OE1	2.36	0.58
1:A:678:LEU:HD21	1:A:752:LEU:HD23	1.86	0.58
1:B:800:LEU:HD23	1:B:855:LEU:HB3	1.85	0.58
1:C:199:THR:O	1:C:201:TYR:N	2.35	0.58
1:C:2406:SER:OG	1:C:2407:HIS:ND1	2.35	0.58
1:E:900:GLN:HA	1:E:903:LEU:HD12	1.85	0.58
1:B:2377:ALA:HB2	1:B:2457:LEU:HD13	1.86	0.58
1:D:457:ALA:HB2	1:D:467:THR:HG21	1.85	0.58
1:E:256:THR:HG22	1:E:257:GLY:H	1.68	0.58
1:E:1607:LEU:HD12	1:E:1625:ILE:HD12	1.86	0.58
1:A:204:PRO:HB3	1:A:893:SER:HA	1.84	0.58
1:A:997:ASP:OD1	1:B:1767:ASN:ND2	2.37	0.58
1:B:738:LEU:HD11	1:B:748:ASP:HB3	1.85	0.58
1:C:364:LYS:O	1:C:418:ARG:NH1	2.37	0.58
1:C:1607:LEU:HD12	1:C:1625:ILE:HD12	1.86	0.58
1:D:220:PRO:HA	1:D:233:LEU:HD23	1.84	0.58
1:A:274:LYS:HA	1:A:277:MET:HG2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1310:ILE:HG13	1:A:1311:ASN:H	1.68	0.58
1:B:186:TYR:OH	1:B:926:GLU:OE1	2.19	0.58
1:B:2433:ASP:OD1	1:B:2433:ASP:N	2.33	0.58
1:D:364:LYS:O	1:D:418:ARG:NH1	2.37	0.58
1:D:1310:ILE:HG13	1:D:1311:ASN:H	1.68	0.58
1:A:522:HIS:O	1:A:526:LEU:HB2	2.04	0.57
1:A:528:ASN:HD21	1:A:537:TYR:HB3	1.69	0.57
1:A:1613:ASP:HB3	1:A:1616:THR:HG22	1.86	0.57
1:A:2174:GLN:HA	1:B:2049:ILE:HD11	1.86	0.57
1:B:220:PRO:HA	1:B:233:LEU:HD23	1.84	0.57
1:D:1607:LEU:HD12	1:D:1625:ILE:HD12	1.86	0.57
1:A:900:GLN:HA	1:A:903:LEU:HD12	1.85	0.57
1:C:678:LEU:HD21	1:C:752:LEU:HD23	1.86	0.57
1:D:738:LEU:HD11	1:D:748:ASP:HB3	1.85	0.57
1:E:174:LEU:HD21	1:E:927:TYR:HA	1.87	0.57
1:E:274:LYS:HA	1:E:277:MET:HG2	1.86	0.57
1:E:528:ASN:HD21	1:E:537:TYR:HB3	1.69	0.57
1:E:678:LEU:HD21	1:E:752:LEU:HD23	1.86	0.57
1:E:1999:MET:HE2	1:E:2273:GLU:HA	1.86	0.57
1:A:142:ARG:NH2	1:A:980:GLU:OE1	2.25	0.57
1:A:738:LEU:HD11	1:A:748:ASP:HB3	1.85	0.57
1:B:1842:ASP:OD2	1:B:1843:THR:N	2.38	0.57
1:D:1613:ASP:HB3	1:D:1616:THR:HG22	1.86	0.57
1:E:186:TYR:OH	1:E:926:GLU:OE1	2.19	0.57
1:B:900:GLN:HA	1:B:903:LEU:HD12	1.85	0.57
1:C:168:GLU:O	1:C:172:THR:HG23	2.05	0.57
1:D:274:LYS:HA	1:D:277:MET:HG2	1.86	0.57
1:B:997:ASP:OD1	1:C:1767:ASN:ND2	2.37	0.57
1:D:709:ASP:OD1	1:D:709:ASP:N	2.30	0.57
1:B:204:PRO:HB3	1:B:893:SER:HA	1.84	0.57
1:D:667:PRO:HB3	1:D:754:ALA:HB2	1.85	0.57
1:A:1842:ASP:OD2	1:A:1843:THR:N	2.38	0.57
1:B:522:HIS:O	1:B:526:LEU:HB2	2.04	0.57
1:C:528:ASN:HD21	1:C:537:TYR:HB3	1.69	0.57
1:D:678:LEU:HD21	1:D:752:LEU:HD23	1.86	0.57
1:D:900:GLN:HA	1:D:903:LEU:HD12	1.85	0.57
1:E:738:LEU:HD11	1:E:748:ASP:HB3	1.85	0.57
1:A:174:LEU:HD21	1:A:927:TYR:HA	1.87	0.57
1:A:2204:GLU:O	1:A:2208:ARG:HG2	2.05	0.57
1:B:274:LYS:HA	1:B:277:MET:HG2	1.86	0.57
1:C:374:ILE:HD12	1:C:384:ALA:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2204:GLU:O	1:C:2208:ARG:HG2	2.05	0.57
1:E:1613:ASP:HB3	1:E:1616:THR:HG22	1.86	0.57
1:E:1842:ASP:OD2	1:E:1843:THR:N	2.38	0.57
1:A:1259:VAL:HG22	1:A:1546:ILE:HG23	1.86	0.57
1:A:1735:SER:O	1:A:1735:SER:OG	2.21	0.57
1:A:2218:TRP:CZ3	1:E:680:LEU:HD12	2.40	0.57
1:B:2204:GLU:O	1:B:2208:ARG:HG2	2.05	0.57
1:C:1842:ASP:OD2	1:C:1843:THR:N	2.38	0.57
1:E:2204:GLU:O	1:E:2208:ARG:HG2	2.05	0.57
1:E:2377:ALA:HB2	1:E:2457:LEU:HD13	1.86	0.57
1:D:168:GLU:O	1:D:172:THR:HG23	2.05	0.57
1:D:1842:ASP:OD2	1:D:1843:THR:N	2.38	0.57
1:B:168:GLU:O	1:B:172:THR:HG23	2.05	0.56
1:B:322:ILE:HG12	1:C:1867:SER:HB2	1.87	0.56
1:B:1607:LEU:HD12	1:B:1625:ILE:HD12	1.86	0.56
1:C:738:LEU:HD11	1:C:748:ASP:HB3	1.85	0.56
1:D:2204:GLU:O	1:D:2208:ARG:HG2	2.05	0.56
1:E:750:GLU:OE1	1:E:750:GLU:N	2.36	0.56
1:B:374:ILE:HD12	1:B:384:ALA:HB3	1.87	0.56
1:B:1259:VAL:HG22	1:B:1546:ILE:HG23	1.86	0.56
1:C:174:LEU:HD21	1:C:927:TYR:HA	1.87	0.56
1:C:226:ASN:N	1:C:883:GLU:OE1	2.37	0.56
1:D:522:HIS:O	1:D:526:LEU:HB2	2.04	0.56
1:E:648:LEU:HD21	1:E:658:LEU:HD22	1.87	0.56
1:E:1259:VAL:HG22	1:E:1546:ILE:HG23	1.86	0.56
1:A:374:ILE:HD12	1:A:384:ALA:HB3	1.86	0.56
1:A:1607:LEU:HD12	1:A:1625:ILE:HD12	1.86	0.56
1:A:2042:GLU:OE2	1:E:2181:ARG:HD3	2.05	0.56
1:B:364:LYS:O	1:B:418:ARG:NH1	2.37	0.56
1:B:528:ASN:HD21	1:B:537:TYR:HB3	1.69	0.56
1:B:1613:ASP:HB3	1:B:1616:THR:HG22	1.86	0.56
1:C:186:TYR:OH	1:C:926:GLU:OE1	2.19	0.56
1:C:750:GLU:OE1	1:C:750:GLU:N	2.36	0.56
1:C:1259:VAL:HG22	1:C:1546:ILE:HG23	1.86	0.56
1:D:528:ASN:HD21	1:D:537:TYR:HB3	1.69	0.56
1:D:745:THR:OG1	1:D:747:GLY:O	2.23	0.56
1:D:1259:VAL:HG22	1:D:1546:ILE:HG23	1.86	0.56
1:D:1516:ILE:H	1:D:1516:ILE:HD12	1.70	0.56
1:D:2377:ALA:HB2	1:D:2457:LEU:HD13	1.86	0.56
1:A:364:LYS:O	1:A:418:ARG:NH1	2.37	0.56
1:B:678:LEU:HD21	1:B:752:LEU:HD23	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2142:ASP:OD2	1:C:2083:TYR:OH	2.21	0.56
1:A:1516:ILE:H	1:A:1516:ILE:HD12	1.71	0.56
1:C:1277:GLU:HA	1:C:1530:THR:HG22	1.88	0.56
1:D:174:LEU:HD21	1:D:927:TYR:HA	1.87	0.56
1:D:1999:MET:HE2	1:D:2273:GLU:HA	1.88	0.56
1:B:174:LEU:HD21	1:B:927:TYR:HA	1.87	0.56
1:C:709:ASP:N	1:C:709:ASP:OD1	2.30	0.56
1:D:226:ASN:N	1:D:883:GLU:OE1	2.37	0.56
1:A:2434:ASP:OD1	1:A:2435:ASP:N	2.34	0.56
1:B:1277:GLU:HA	1:B:1530:THR:HG22	1.88	0.56
1:D:142:ARG:NH2	1:D:980:GLU:OE1	2.25	0.56
1:E:374:ILE:HD12	1:E:384:ALA:HB3	1.87	0.56
1:A:1748:TYR:HH	1:A:1816:TYR:HH	1.50	0.56
1:A:2347:PHE:H	1:A:2438:LEU:N	2.04	0.56
1:B:1073:HIS:HB3	1:B:1261:THR:HG22	1.88	0.56
1:C:1073:HIS:HB3	1:C:1261:THR:HG22	1.88	0.56
1:C:1516:ILE:H	1:C:1516:ILE:HD12	1.70	0.56
1:D:1073:HIS:HB3	1:D:1261:THR:HG22	1.88	0.56
1:D:1277:GLU:HA	1:D:1530:THR:HG22	1.88	0.56
1:A:800:LEU:HD11	1:A:829:LEU:HD11	1.88	0.56
1:B:1516:ILE:H	1:B:1516:ILE:HD12	1.70	0.56
1:C:2377:ALA:HB2	1:C:2457:LEU:HD13	1.86	0.56
1:E:364:LYS:O	1:E:418:ARG:NH1	2.37	0.56
1:E:1516:ILE:HD12	1:E:1516:ILE:H	1.70	0.56
1:B:648:LEU:HD21	1:B:658:LEU:HD22	1.87	0.56
1:D:326:GLY:O	1:D:327:LYS:HE2	2.06	0.56
1:D:374:ILE:HD12	1:D:384:ALA:HB3	1.87	0.56
1:D:2434:ASP:OD1	1:D:2435:ASP:N	2.34	0.56
1:A:191:ALA:HB1	1:A:202:ASN:OD1	2.06	0.55
1:B:1735:SER:O	1:B:1735:SER:OG	2.21	0.55
1:C:648:LEU:HD21	1:C:658:LEU:HD22	1.87	0.55
1:C:1613:ASP:HB3	1:C:1616:THR:HG22	1.86	0.55
1:D:186:TYR:OH	1:D:926:GLU:OE1	2.19	0.55
1:D:1997:GLN:HG2	1:E:2276:LEU:CD2	2.35	0.55
1:E:1073:HIS:HB3	1:E:1261:THR:HG22	1.88	0.55
1:E:1735:SER:O	1:E:1735:SER:OG	2.21	0.55
1:A:1037:GLU:OE2	1:E:2082:LEU:HD21	2.05	0.55
1:A:1277:GLU:HA	1:A:1530:THR:HG22	1.88	0.55
1:A:1566:ARG:NH1	1:A:1730:GLU:OE2	2.39	0.55
1:A:2377:ALA:HB2	1:A:2457:LEU:HD13	1.86	0.55
1:B:800:LEU:HD11	1:B:829:LEU:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1727:GLN:O	1:B:1727:GLN:HG3	2.07	0.55
1:C:191:ALA:HB1	1:C:202:ASN:OD1	2.06	0.55
1:C:1141:ARG:HB2	1:D:1576:ILE:HD11	1.88	0.55
1:C:2001:PHE:CE1	1:D:2273:GLU:HG3	2.41	0.55
1:C:2060:ARG:NH2	1:C:2167:GLU:OE1	2.36	0.55
1:A:1073:HIS:HB3	1:A:1261:THR:HG22	1.88	0.55
1:C:1727:GLN:HG3	1:C:1727:GLN:O	2.07	0.55
1:D:648:LEU:HD21	1:D:658:LEU:HD22	1.87	0.55
1:D:1566:ARG:NH1	1:D:1730:GLU:OE2	2.40	0.55
1:D:1621:ARG:NH1	1:D:1644:LEU:O	2.40	0.55
1:C:800:LEU:HD11	1:C:829:LEU:HD11	1.88	0.55
1:C:1621:ARG:NH1	1:C:1644:LEU:O	2.40	0.55
1:C:2347:PHE:H	1:C:2438:LEU:N	2.04	0.55
1:D:800:LEU:HD11	1:D:829:LEU:HD11	1.88	0.55
1:E:2347:PHE:H	1:E:2438:LEU:N	2.04	0.55
1:A:326:GLY:O	1:A:327:LYS:HE2	2.06	0.55
1:A:1727:GLN:HG3	1:A:1727:GLN:O	2.07	0.55
1:A:1999:MET:HE2	1:A:2273:GLU:HA	1.87	0.55
1:B:226:ASN:N	1:B:883:GLU:OE1	2.37	0.55
1:B:1621:ARG:NH1	1:B:1644:LEU:O	2.40	0.55
1:C:202:ASN:HD21	1:C:242:PRO:HD2	1.72	0.55
1:C:324:THR:O	1:C:324:THR:OG1	2.24	0.55
1:C:403:LEU:HD23	1:C:408:LEU:HD11	1.89	0.55
1:E:745:THR:OG1	1:E:747:GLY:O	2.23	0.55
1:E:1277:GLU:HA	1:E:1530:THR:HG22	1.88	0.55
1:A:1621:ARG:NH1	1:A:1644:LEU:O	2.40	0.55
1:A:2078:ARG:NH1	1:B:1040:SER:OG	2.37	0.55
1:A:2451:LYS:O	1:A:2455:LEU:HG	2.07	0.55
1:B:1153:LYS:HD3	1:E:2114:VAL:HG12	1.87	0.55
1:B:2347:PHE:H	1:B:2438:LEU:N	2.04	0.55
1:C:1288:HIS:CD2	1:C:1302:LEU:HD11	2.42	0.55
1:D:202:ASN:HD21	1:D:242:PRO:HD2	1.72	0.55
1:E:324:THR:O	1:E:324:THR:OG1	2.24	0.55
1:E:326:GLY:O	1:E:327:LYS:HE2	2.06	0.55
1:A:168:GLU:O	1:A:172:THR:HG23	2.05	0.55
1:B:202:ASN:HD21	1:B:242:PRO:HD2	1.72	0.55
1:C:326:GLY:O	1:C:327:LYS:HE2	2.06	0.55
1:D:1630:ASP:OD2	1:D:1632:THR:OG1	2.15	0.55
1:B:191:ALA:HB1	1:B:202:ASN:OD1	2.06	0.55
1:D:2127:GLY:O	1:E:2093:ILE:HD12	2.06	0.55
1:A:1288:HIS:CD2	1:A:1302:LEU:HD11	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2075:GLU:OE2	1:B:1756:ARG:NH1	2.38	0.55
1:C:2434:ASP:OD1	1:C:2435:ASP:N	2.34	0.55
1:D:1727:GLN:HG3	1:D:1727:GLN:O	2.07	0.55
1:D:2347:PHE:H	1:D:2438:LEU:N	2.04	0.55
1:D:2406:SER:OG	1:D:2407:HIS:ND1	2.35	0.55
1:E:800:LEU:HD11	1:E:829:LEU:HD11	1.88	0.55
1:E:1727:GLN:O	1:E:1727:GLN:HG3	2.07	0.55
1:E:2434:ASP:OD1	1:E:2435:ASP:N	2.34	0.55
1:E:2451:LYS:O	1:E:2455:LEU:HG	2.07	0.55
1:A:288:LEU:HD13	1:A:464:PRO:HG3	1.89	0.55
1:B:2451:LYS:O	1:B:2455:LEU:HG	2.07	0.55
1:C:195:ARG:NH1	1:C:926:GLU:OE2	2.39	0.55
1:C:1566:ARG:NH1	1:C:1730:GLU:OE2	2.40	0.55
1:C:2142:ASP:OD2	1:D:2083:TYR:OH	2.20	0.55
1:D:1209:LEU:HD21	1:D:1240:ILE:HD11	1.89	0.55
1:E:168:GLU:O	1:E:172:THR:HG23	2.05	0.55
1:E:1209:LEU:HD21	1:E:1240:ILE:HD11	1.89	0.55
1:E:1748:TYR:HH	1:E:1816:TYR:HH	1.55	0.55
1:A:648:LEU:HD21	1:A:658:LEU:HD22	1.87	0.54
1:B:311:TYR:CE2	1:B:335:LYS:HD2	2.43	0.54
1:B:336:THR:HG21	1:B:413:LYS:HE2	1.89	0.54
1:C:362:VAL:HG13	1:C:365:THR:HG22	1.89	0.54
1:D:1288:HIS:CD2	1:D:1302:LEU:HD11	2.42	0.54
1:E:202:ASN:HD21	1:E:242:PRO:HD2	1.72	0.54
1:E:288:LEU:HD13	1:E:464:PRO:HG3	1.89	0.54
1:E:336:THR:HG21	1:E:413:LYS:HE2	1.89	0.54
1:A:79:GLU:OE2	1:A:1784:TRP:NE1	2.40	0.54
1:A:1099:ARG:HG3	1:A:1119:TRP:CE3	2.43	0.54
1:B:1288:HIS:CD2	1:B:1302:LEU:HD11	2.42	0.54
1:D:2145:SER:OG	1:E:2146:GLN:NE2	2.40	0.54
1:E:403:LEU:HD23	1:E:408:LEU:HD11	1.89	0.54
1:E:1099:ARG:HG3	1:E:1119:TRP:CE3	2.43	0.54
1:E:1630:ASP:OD2	1:E:1632:THR:OG1	2.15	0.54
1:A:202:ASN:HD21	1:A:242:PRO:HD2	1.72	0.54
1:A:311:TYR:CE2	1:A:335:LYS:HD2	2.43	0.54
1:B:326:GLY:O	1:B:327:LYS:HE2	2.07	0.54
1:C:311:TYR:CE2	1:C:335:LYS:HD2	2.43	0.54
1:C:838:GLN:O	1:C:841:THR:OG1	2.25	0.54
1:C:1209:LEU:HD21	1:C:1240:ILE:HD11	1.89	0.54
1:E:311:TYR:CE2	1:E:335:LYS:HD2	2.43	0.54
1:E:1288:HIS:CD2	1:E:1302:LEU:HD11	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1209:LEU:HD21	1:B:1240:ILE:HD11	1.89	0.54
1:C:288:LEU:HD13	1:C:464:PRO:HG3	1.89	0.54
1:C:336:THR:HG21	1:C:413:LYS:HE2	1.89	0.54
1:C:372:PHE:HB2	1:C:418:ARG:HA	1.90	0.54
1:D:1099:ARG:HG3	1:D:1119:TRP:CE3	2.43	0.54
1:A:372:PHE:HB2	1:A:418:ARG:HA	1.90	0.54
1:C:2451:LYS:O	1:C:2455:LEU:HG	2.07	0.54
1:D:2451:LYS:O	1:D:2455:LEU:HG	2.07	0.54
1:C:745:THR:OG1	1:C:747:GLY:O	2.23	0.54
1:C:1748:TYR:OH	1:C:1816:TYR:OH	2.26	0.54
1:D:362:VAL:HG13	1:D:365:THR:HG22	1.89	0.54
1:E:191:ALA:HB1	1:E:202:ASN:OD1	2.06	0.54
1:E:305:LEU:HD23	1:E:468:GLN:HG2	1.90	0.54
1:E:362:VAL:HG13	1:E:365:THR:HG22	1.89	0.54
1:E:1621:ARG:NH1	1:E:1644:LEU:O	2.40	0.54
1:A:1865:ILE:HD11	1:E:325:GLY:HA2	1.90	0.54
1:B:175:MET:HE1	1:B:183:LYS:HG2	1.90	0.54
1:B:1099:ARG:HG3	1:B:1119:TRP:CE3	2.43	0.54
1:D:403:LEU:HD23	1:D:408:LEU:HD11	1.89	0.54
1:A:745:THR:OG1	1:A:747:GLY:O	2.23	0.54
1:B:1999:MET:HE2	1:B:2273:GLU:HA	1.89	0.54
1:C:2433:ASP:OD1	1:C:2433:ASP:N	2.33	0.54
1:D:191:ALA:HB1	1:D:202:ASN:OD1	2.06	0.54
1:E:1566:ARG:NH1	1:E:1730:GLU:OE2	2.39	0.54
1:A:305:LEU:HD23	1:A:468:GLN:HG2	1.90	0.54
1:A:750:GLU:OE1	1:A:750:GLU:N	2.36	0.54
1:B:403:LEU:HD23	1:B:408:LEU:HD11	1.89	0.54
1:B:2123:PRO:HB2	1:C:2100:ALA:HB2	1.90	0.54
1:A:1646:VAL:HG11	1:A:1900:LEU:HD11	1.90	0.54
1:B:288:LEU:HD13	1:B:464:PRO:HG3	1.89	0.54
1:B:868:LEU:O	1:B:870:ILE:N	2.40	0.54
1:C:884:ASN:OD1	1:C:885:VAL:N	2.41	0.54
1:D:884:ASN:OD1	1:D:885:VAL:N	2.41	0.54
1:E:79:GLU:OE2	1:E:1784:TRP:NE1	2.40	0.54
1:E:884:ASN:OD1	1:E:885:VAL:N	2.41	0.54
1:B:496:TYR:HB3	1:B:604:VAL:HG22	1.91	0.53
1:C:1099:ARG:HG3	1:C:1119:TRP:CE3	2.43	0.53
1:D:311:TYR:CE2	1:D:335:LYS:HD2	2.43	0.53
1:E:868:LEU:O	1:E:870:ILE:N	2.40	0.53
1:A:496:TYR:HB3	1:A:604:VAL:HG22	1.91	0.53
1:A:838:GLN:O	1:A:841:THR:OG1	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1209:LEU:HD21	1:A:1240:ILE:HD11	1.89	0.53
1:A:1213:TYR:HE2	1:A:1215:ILE:HD11	1.74	0.53
1:A:403:LEU:HD23	1:A:408:LEU:HD11	1.89	0.53
1:A:868:LEU:O	1:A:870:ILE:N	2.40	0.53
1:B:1213:TYR:HE2	1:B:1215:ILE:HD11	1.74	0.53
1:B:2406:SER:OG	1:B:2407:HIS:ND1	2.35	0.53
1:C:79:GLU:OE2	1:C:1784:TRP:NE1	2.40	0.53
1:C:331:SER:HA	1:C:439:PRO:HA	1.91	0.53
1:C:1999:MET:HE2	1:C:2273:GLU:HA	1.88	0.53
1:D:336:THR:HG21	1:D:413:LYS:HE2	1.89	0.53
1:D:1213:TYR:HE2	1:D:1215:ILE:HD11	1.74	0.53
1:A:378:LYS:HZ2	1:A:430:TYR:HE2	1.55	0.53
1:E:373:SER:HB2	1:E:417:THR:HB	1.91	0.53
1:B:324:THR:O	1:B:324:THR:OG1	2.24	0.53
1:B:362:VAL:HG13	1:B:365:THR:HG22	1.90	0.53
1:B:745:THR:OG1	1:B:747:GLY:O	2.23	0.53
1:C:2306:TYR:CZ	1:C:2347:PHE:HZ	2.27	0.53
1:D:378:LYS:HZ2	1:D:430:TYR:HE2	1.56	0.53
1:E:1748:TYR:OH	1:E:1816:TYR:OH	2.26	0.53
1:A:336:THR:HG21	1:A:413:LYS:HE2	1.89	0.53
1:A:1849:MET:CE	1:E:973:ASN:HD21	2.22	0.53
1:A:1864:SER:O	1:E:294:GLN:NE2	2.41	0.53
1:B:1282:ILE:HG23	1:B:1307:THR:H	1.74	0.53
1:B:1566:ARG:NH1	1:B:1730:GLU:OE2	2.40	0.53
1:C:376:TYR:HB2	1:C:383:LEU:HD11	1.91	0.53
1:C:496:TYR:HB3	1:C:604:VAL:HG22	1.91	0.53
1:D:2374:THR:HG23	1:D:2409:ILE:HA	1.91	0.53
1:E:378:LYS:HZ2	1:E:430:TYR:HE2	1.56	0.53
1:E:496:TYR:HB3	1:E:604:VAL:HG22	1.91	0.53
1:E:838:GLN:O	1:E:841:THR:OG1	2.25	0.53
1:A:373:SER:HB2	1:A:417:THR:HB	1.91	0.53
1:B:331:SER:HA	1:B:439:PRO:HA	1.91	0.53
1:C:868:LEU:O	1:C:870:ILE:N	2.40	0.53
1:C:1646:VAL:HG11	1:C:1900:LEU:HD11	1.91	0.53
1:D:305:LEU:HD23	1:D:468:GLN:HG2	1.90	0.53
1:D:376:TYR:HB2	1:D:383:LEU:HD11	1.91	0.53
1:D:838:GLN:O	1:D:841:THR:OG1	2.25	0.53
1:E:372:PHE:HB2	1:E:418:ARG:HA	1.90	0.53
1:A:2374:THR:HG23	1:A:2409:ILE:HA	1.91	0.53
1:C:1282:ILE:HG23	1:C:1307:THR:H	1.74	0.53
1:C:2415:PHE:CZ	1:D:2295:GLU:HG3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:868:LEU:O	1:D:870:ILE:N	2.40	0.53
1:E:2374:THR:HG23	1:E:2409:ILE:HA	1.91	0.53
1:A:362:VAL:HG13	1:A:365:THR:HG22	1.89	0.53
1:A:376:TYR:HB2	1:A:383:LEU:HD11	1.91	0.53
1:A:1937:ASN:HA	1:E:953:SER:HB3	1.89	0.53
1:C:1213:TYR:HE2	1:C:1215:ILE:HD11	1.74	0.53
1:A:884:ASN:OD1	1:A:885:VAL:N	2.41	0.53
1:A:2306:TYR:CZ	1:A:2347:PHE:HZ	2.27	0.53
1:B:36:SER:HB2	1:B:1489:ARG:NH2	2.23	0.53
1:B:376:TYR:HB2	1:B:383:LEU:HD11	1.91	0.53
1:B:2374:THR:HG23	1:B:2409:ILE:HA	1.91	0.53
1:C:36:SER:HB2	1:C:1489:ARG:NH2	2.23	0.53
1:C:2374:THR:HG23	1:C:2409:ILE:HA	1.91	0.53
1:C:2396:LEU:HD23	1:C:2400:CYS:HB3	1.92	0.53
1:E:376:TYR:HB2	1:E:383:LEU:HD11	1.91	0.53
1:B:305:LEU:HD23	1:B:468:GLN:HG2	1.90	0.52
1:B:372:PHE:HB2	1:B:418:ARG:HA	1.90	0.52
1:C:373:SER:HB2	1:C:417:THR:HB	1.91	0.52
1:D:175:MET:HE1	1:D:183:LYS:HG2	1.90	0.52
1:D:372:PHE:HB2	1:D:418:ARG:HA	1.90	0.52
1:D:373:SER:HB2	1:D:417:THR:HB	1.91	0.52
1:E:1213:TYR:HE2	1:E:1215:ILE:HD11	1.74	0.52
1:E:1282:ILE:HG23	1:E:1307:THR:H	1.74	0.52
1:E:1283:ASP:OD1	1:E:1307:THR:HG23	2.10	0.52
1:A:36:SER:HB2	1:A:1489:ARG:NH2	2.23	0.52
1:A:2396:LEU:HD23	1:A:2400:CYS:HB3	1.91	0.52
1:D:2407:HIS:HD2	1:D:2409:ILE:HG12	1.75	0.52
1:E:36:SER:HB2	1:E:1489:ARG:NH2	2.23	0.52
1:A:2292:ARG:HH21	1:E:2414:LEU:HD11	1.73	0.52
1:A:2407:HIS:HD2	1:A:2409:ILE:HG12	1.75	0.52
1:B:884:ASN:OD1	1:B:885:VAL:N	2.41	0.52
1:D:288:LEU:HD13	1:D:464:PRO:HG3	1.89	0.52
1:D:496:TYR:HB3	1:D:604:VAL:HG22	1.91	0.52
1:D:1462:ILE:HG13	1:D:1518:VAL:HG22	1.92	0.52
1:E:2407:HIS:HD2	1:E:2409:ILE:HG12	1.75	0.52
1:A:1282:ILE:HG23	1:A:1307:THR:H	1.74	0.52
1:B:838:GLN:O	1:B:841:THR:OG1	2.25	0.52
1:C:973:ASN:HD21	1:D:1849:MET:CE	2.22	0.52
1:C:2082:LEU:HD11	1:D:1037:GLU:HG2	1.90	0.52
1:D:36:SER:HB2	1:D:1489:ARG:NH2	2.23	0.52
1:D:1646:VAL:HG11	1:D:1900:LEU:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2306:TYR:CZ	1:E:2347:PHE:HZ	2.27	0.52
1:C:1283:ASP:OD1	1:C:1307:THR:HG23	2.09	0.52
1:C:1735:SER:O	1:C:1735:SER:OG	2.21	0.52
1:D:2396:LEU:HD23	1:D:2400:CYS:HB3	1.91	0.52
1:D:2433:ASP:OD1	1:D:2433:ASP:N	2.33	0.52
1:B:2306:TYR:CZ	1:B:2347:PHE:HZ	2.27	0.52
1:C:1159:ASP:OD1	1:C:1159:ASP:N	2.43	0.52
1:D:310:VAL:HG22	1:D:311:TYR:N	2.25	0.52
1:D:750:GLU:OE1	1:D:750:GLU:N	2.36	0.52
1:E:1159:ASP:OD1	1:E:1159:ASP:N	2.43	0.52
1:B:373:SER:HB2	1:B:417:THR:HB	1.91	0.52
1:B:2434:ASP:OD1	1:B:2435:ASP:N	2.34	0.52
1:C:305:LEU:HD23	1:C:468:GLN:HG2	1.90	0.52
1:C:415:GLY:HA2	1:C:432:SER:HA	1.92	0.52
1:D:195:ARG:NH1	1:D:926:GLU:OE2	2.39	0.52
1:D:331:SER:HA	1:D:439:PRO:HA	1.91	0.52
1:D:1462:ILE:HG21	1:D:1501:ILE:HD13	1.92	0.52
1:A:1122:ILE:HD13	1:A:1144:LEU:HD22	1.92	0.52
1:B:685:GLY:H	1:C:2229:ARG:CZ	2.23	0.52
1:B:1646:VAL:HG11	1:B:1900:LEU:HD11	1.91	0.52
1:B:2204:GLU:OE1	1:C:1962:SER:OG	2.25	0.52
1:E:331:SER:HA	1:E:439:PRO:HA	1.91	0.52
1:E:2396:LEU:HD23	1:E:2400:CYS:HB3	1.91	0.52
1:A:331:SER:HA	1:A:439:PRO:HA	1.91	0.52
1:A:1748:TYR:OH	1:A:1816:TYR:OH	2.26	0.52
1:B:310:VAL:HG22	1:B:311:TYR:N	2.25	0.52
1:B:1283:ASP:OD1	1:B:1307:THR:HG23	2.09	0.52
1:D:1282:ILE:HG23	1:D:1307:THR:H	1.74	0.52
1:D:2306:TYR:CZ	1:D:2347:PHE:HZ	2.27	0.52
1:E:310:VAL:HG22	1:E:311:TYR:N	2.25	0.52
1:E:874:ASP:HB3	1:E:898:LEU:HD21	1.92	0.52
1:E:1462:ILE:HG21	1:E:1501:ILE:HD13	1.92	0.52
1:A:2388:ILE:O	1:A:2441:SER:N	2.43	0.52
1:B:2375:LEU:N	1:B:2408:GLY:O	2.37	0.52
1:C:1910:THR:O	1:C:1910:THR:OG1	2.28	0.52
1:E:415:GLY:HA2	1:E:432:SER:HA	1.91	0.52
1:A:127:ALA:HB2	1:A:972:ILE:HD11	1.92	0.51
1:A:226:ASN:N	1:A:883:GLU:OE1	2.37	0.51
1:B:2388:ILE:O	1:B:2441:SER:N	2.43	0.51
1:C:833:GLU:O	1:C:837:THR:HG23	2.10	0.51
1:D:127:ALA:HB2	1:D:972:ILE:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1283:ASP:OD1	1:D:1307:THR:HG23	2.10	0.51
1:E:127:ALA:HB2	1:E:972:ILE:HD11	1.92	0.51
1:A:833:GLU:O	1:A:837:THR:HG23	2.10	0.51
1:B:750:GLU:OE1	1:B:750:GLU:N	2.36	0.51
1:B:833:GLU:O	1:B:837:THR:HG23	2.10	0.51
1:B:928:ARG:HA	1:B:932:MET:HB2	1.92	0.51
1:B:1122:ILE:HD13	1:B:1144:LEU:HD22	1.92	0.51
1:C:928:ARG:HA	1:C:932:MET:HB2	1.93	0.51
1:E:833:GLU:O	1:E:837:THR:HG23	2.10	0.51
1:E:1646:VAL:HG11	1:E:1900:LEU:HD11	1.91	0.51
1:A:759:LEU:O	1:A:763:VAL:HG23	2.11	0.51
1:A:1462:ILE:HG21	1:A:1501:ILE:HD13	1.92	0.51
1:B:759:LEU:O	1:B:763:VAL:HG23	2.11	0.51
1:C:2407:HIS:HD2	1:C:2409:ILE:HG12	1.75	0.51
1:D:79:GLU:OE2	1:D:1784:TRP:NE1	2.40	0.51
1:D:833:GLU:O	1:D:837:THR:HG23	2.10	0.51
1:A:310:VAL:HG22	1:A:311:TYR:N	2.25	0.51
1:A:415:GLY:HA2	1:A:432:SER:HA	1.92	0.51
1:A:1283:ASP:OD1	1:A:1307:THR:HG23	2.10	0.51
1:A:2406:SER:OG	1:A:2407:HIS:ND1	2.35	0.51
1:B:2407:HIS:HD2	1:B:2409:ILE:HG12	1.75	0.51
1:C:127:ALA:HB2	1:C:972:ILE:HD11	1.92	0.51
1:E:2388:ILE:O	1:E:2441:SER:N	2.43	0.51
1:A:311:TYR:HE2	1:A:335:LYS:HD2	1.75	0.51
1:B:127:ALA:HB2	1:B:972:ILE:HD11	1.92	0.51
1:D:311:TYR:HE2	1:D:335:LYS:HD2	1.75	0.51
1:E:928:ARG:HA	1:E:932:MET:HB2	1.93	0.51
1:A:874:ASP:HB3	1:A:898:LEU:HD21	1.92	0.51
1:B:1462:ILE:HG21	1:B:1501:ILE:HD13	1.92	0.51
1:B:2082:LEU:HD21	1:C:1037:GLU:OE2	2.11	0.51
1:C:1462:ILE:HG21	1:C:1501:ILE:HD13	1.92	0.51
1:D:533:ASN:HD21	1:E:893:SER:HA	1.75	0.51
1:A:1462:ILE:HG13	1:A:1518:VAL:HG22	1.92	0.51
1:B:311:TYR:HE2	1:B:335:LYS:HD2	1.75	0.51
1:C:513:ARG:NH2	1:C:539:LEU:HD12	2.26	0.51
1:D:513:ARG:NH2	1:D:539:LEU:HD12	2.26	0.51
1:D:2115:GLY:HA3	1:E:2108:ASN:O	2.11	0.51
1:B:255:LEU:HD11	1:B:259:ASP:HB3	1.93	0.51
1:B:1219:THR:HG21	1:B:1251:LEU:CB	2.41	0.51
1:B:1462:ILE:HG13	1:B:1518:VAL:HG22	1.92	0.51
1:B:1489:ARG:O	1:B:1489:ARG:NH1	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:874:ASP:HB3	1:C:898:LEU:HD21	1.92	0.51
1:C:1219:THR:HG21	1:C:1251:LEU:CB	2.41	0.51
1:D:928:ARG:HA	1:D:932:MET:HB2	1.92	0.51
1:E:513:ARG:NH2	1:E:539:LEU:HD12	2.26	0.51
1:B:1034:THR:HA	1:B:1037:GLU:OE1	2.11	0.51
1:C:310:VAL:HG22	1:C:311:TYR:N	2.25	0.51
1:C:759:LEU:O	1:C:763:VAL:HG23	2.11	0.51
1:E:195:ARG:NH1	1:E:926:GLU:OE2	2.39	0.51
1:E:311:TYR:HE2	1:E:335:LYS:HD2	1.75	0.51
1:E:365:THR:HA	1:E:418:ARG:NH1	2.26	0.51
1:E:759:LEU:O	1:E:763:VAL:HG23	2.11	0.51
1:E:1462:ILE:HG13	1:E:1518:VAL:HG22	1.92	0.51
1:A:1159:ASP:OD1	1:A:1159:ASP:N	2.43	0.51
1:B:202:ASN:ND2	1:B:242:PRO:HD2	2.26	0.51
1:D:1122:ILE:HD13	1:D:1144:LEU:HD22	1.92	0.51
1:A:2001:PHE:CE1	1:B:2273:GLU:HG3	2.46	0.50
1:B:415:GLY:HA2	1:B:432:SER:HA	1.92	0.50
1:B:2396:LEU:HD23	1:B:2400:CYS:HB3	1.91	0.50
1:C:255:LEU:HD11	1:C:259:ASP:HB3	1.93	0.50
1:C:1489:ARG:O	1:C:1489:ARG:NH1	2.34	0.50
1:D:365:THR:HA	1:D:418:ARG:NH1	2.26	0.50
1:D:817:SER:OG	1:D:819:THR:HG22	2.11	0.50
1:E:1910:THR:O	1:E:1910:THR:OG1	2.28	0.50
1:A:195:ARG:NH1	1:A:926:GLU:OE2	2.39	0.50
1:A:817:SER:OG	1:A:819:THR:HG22	2.11	0.50
1:B:1827:LEU:O	1:B:1831:ARG:HG3	2.12	0.50
1:C:311:TYR:HE2	1:C:335:LYS:HD2	1.75	0.50
1:C:817:SER:OG	1:C:819:THR:HG22	2.11	0.50
1:C:906:GLN:NE2	1:D:1950:VAL:HG13	2.26	0.50
1:D:255:LEU:HD11	1:D:259:ASP:HB3	1.93	0.50
1:E:1122:ILE:HD13	1:E:1144:LEU:HD22	1.92	0.50
1:E:2409:ILE:N	1:E:2411:ASP:OD1	2.44	0.50
1:A:528:ASN:ND2	1:A:537:TYR:H	2.10	0.50
1:A:2017:MET:HB2	1:E:2205:PHE:CE2	2.45	0.50
1:B:304:ARG:O	1:B:305:LEU:HD12	2.12	0.50
1:B:513:ARG:NH2	1:B:539:LEU:HD12	2.26	0.50
1:B:874:ASP:HB3	1:B:898:LEU:HD21	1.92	0.50
1:C:2176:GLU:OE1	1:D:2048:LYS:NZ	2.39	0.50
1:D:874:ASP:HB3	1:D:898:LEU:HD21	1.92	0.50
1:E:226:ASN:N	1:E:883:GLU:OE1	2.37	0.50
1:A:906:GLN:NE2	1:B:1950:VAL:HG13	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:365:THR:HA	1:B:418:ARG:NH1	2.26	0.50
1:D:202:ASN:ND2	1:D:242:PRO:HD2	2.26	0.50
1:D:415:GLY:HA2	1:D:432:SER:HA	1.92	0.50
1:E:1219:THR:HG21	1:E:1251:LEU:CB	2.41	0.50
1:A:310:VAL:HG22	1:A:311:TYR:H	1.77	0.50
1:A:928:ARG:HA	1:A:932:MET:HB2	1.92	0.50
1:A:1297:ASN:HB3	1:A:1503:ILE:HG13	1.94	0.50
1:B:79:GLU:OE2	1:B:1784:TRP:NE1	2.40	0.50
1:B:1297:ASN:HB3	1:B:1503:ILE:HG13	1.94	0.50
1:D:759:LEU:O	1:D:763:VAL:HG23	2.11	0.50
1:D:1219:THR:HG21	1:D:1251:LEU:CB	2.41	0.50
1:A:255:LEU:HD11	1:A:259:ASP:HB3	1.93	0.50
1:A:279:LEU:HD21	1:A:294:GLN:HB2	1.94	0.50
1:A:685:GLY:H	1:B:2229:ARG:CZ	2.24	0.50
1:A:1034:THR:HA	1:A:1037:GLU:OE1	2.11	0.50
1:A:1219:THR:HG21	1:A:1251:LEU:CB	2.41	0.50
1:A:1827:LEU:O	1:A:1831:ARG:HG3	2.12	0.50
1:C:310:VAL:HG22	1:C:311:TYR:H	1.77	0.50
1:C:365:THR:HA	1:C:418:ARG:NH1	2.26	0.50
1:C:1122:ILE:HD13	1:C:1144:LEU:HD22	1.92	0.50
1:C:1297:ASN:HB3	1:C:1503:ILE:HG13	1.94	0.50
1:C:1462:ILE:HG13	1:C:1518:VAL:HG22	1.92	0.50
1:C:2143:ASN:ND2	1:E:1041:GLN:OE1	2.44	0.50
1:D:528:ASN:ND2	1:D:537:TYR:H	2.10	0.50
1:D:1297:ASN:HB3	1:D:1503:ILE:HG13	1.94	0.50
1:E:304:ARG:O	1:E:305:LEU:HD12	2.12	0.50
1:E:1489:ARG:O	1:E:1489:ARG:NH1	2.34	0.50
1:A:247:ILE:HD13	1:A:455:ARG:NH1	2.27	0.50
1:A:2326:SER:N	1:A:2339:ALA:O	2.45	0.50
1:A:2375:LEU:N	1:A:2408:GLY:O	2.37	0.50
1:B:1286:ILE:HG13	1:B:1304:LEU:HG	1.94	0.50
1:D:1034:THR:HA	1:D:1037:GLU:OE1	2.11	0.50
1:D:2174:GLN:HA	1:E:2049:ILE:HD11	1.92	0.50
1:E:310:VAL:HG22	1:E:311:TYR:H	1.77	0.50
1:E:528:ASN:ND2	1:E:537:TYR:H	2.10	0.50
1:A:543:ASP:O	1:A:544:ILE:HG12	2.12	0.50
1:D:304:ARG:O	1:D:305:LEU:HD12	2.12	0.50
1:E:202:ASN:ND2	1:E:242:PRO:HD2	2.26	0.50
1:B:2326:SER:N	1:B:2339:ALA:O	2.45	0.50
1:B:2409:ILE:N	1:B:2411:ASP:OD1	2.44	0.50
1:C:528:ASN:ND2	1:C:537:TYR:H	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1827:LEU:O	1:C:1831:ARG:HG3	2.12	0.50
1:D:1827:LEU:O	1:D:1831:ARG:HG3	2.11	0.50
1:E:247:ILE:HD13	1:E:455:ARG:NH1	2.27	0.50
1:E:279:LEU:HD21	1:E:294:GLN:HB2	1.94	0.50
1:E:817:SER:OG	1:E:819:THR:HG22	2.11	0.50
1:A:184:ASN:ND2	1:E:535:VAL:HG22	2.27	0.49
1:A:202:ASN:ND2	1:A:242:PRO:HD2	2.26	0.49
1:A:513:ARG:NH2	1:A:539:LEU:HD12	2.26	0.49
1:B:817:SER:OG	1:B:819:THR:HG22	2.11	0.49
1:B:2343:LEU:HD12	1:B:2344:HIS:H	1.77	0.49
1:C:2379:VAL:HA	1:C:2453:LEU:HD22	1.94	0.49
1:D:1286:ILE:HG13	1:D:1304:LEU:HG	1.94	0.49
1:D:1732:MET:O	1:D:1787:ARG:NH2	2.42	0.49
1:D:1836:TYR:CD2	1:D:1941:ILE:HD12	2.47	0.49
1:D:2343:LEU:HD12	1:D:2344:HIS:H	1.77	0.49
1:E:1297:ASN:HB3	1:E:1503:ILE:HG13	1.94	0.49
1:E:2375:LEU:N	1:E:2408:GLY:O	2.37	0.49
1:A:365:THR:HA	1:A:418:ARG:NH1	2.26	0.49
1:B:543:ASP:O	1:B:544:ILE:HG12	2.12	0.49
1:B:1159:ASP:OD1	1:B:1159:ASP:N	2.43	0.49
1:D:279:LEU:HD21	1:D:294:GLN:HB2	1.94	0.49
1:E:255:LEU:HD11	1:E:259:ASP:HB3	1.93	0.49
1:A:1732:MET:O	1:A:1787:ARG:NH2	2.42	0.49
1:B:310:VAL:HG22	1:B:311:TYR:H	1.77	0.49
1:B:528:ASN:ND2	1:B:537:TYR:H	2.10	0.49
1:B:1620:ASN:HD21	1:B:1622:ALA:HB3	1.77	0.49
1:C:202:ASN:ND2	1:C:242:PRO:HD2	2.26	0.49
1:C:247:ILE:HD13	1:C:455:ARG:NH1	2.27	0.49
1:C:420:LYS:HB2	1:C:423:PRO:O	2.12	0.49
1:C:1034:THR:HA	1:C:1037:GLU:OE1	2.11	0.49
1:E:420:LYS:HB2	1:E:423:PRO:O	2.12	0.49
1:E:2326:SER:N	1:E:2339:ALA:O	2.45	0.49
1:A:304:ARG:O	1:A:305:LEU:HD12	2.12	0.49
1:A:1286:ILE:HG13	1:A:1304:LEU:HG	1.94	0.49
1:A:2082:LEU:HD11	1:B:1037:GLU:HG2	1.95	0.49
1:A:2273:GLU:HB3	1:E:2226:ILE:HD13	1.94	0.49
1:A:2409:ILE:N	1:A:2411:ASP:OD1	2.44	0.49
1:B:1708:SER:O	1:B:1710:ASN:N	2.46	0.49
1:C:304:ARG:O	1:C:305:LEU:HD12	2.12	0.49
1:D:1061:GLU:HA	1:D:1572:THR:HG21	1.94	0.49
1:D:2326:SER:N	1:D:2339:ALA:O	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2379:VAL:HA	1:D:2453:LEU:HD22	1.95	0.49
1:E:1620:ASN:HD21	1:E:1622:ALA:HB3	1.77	0.49
1:E:1836:TYR:CD2	1:E:1941:ILE:HD12	2.47	0.49
1:A:1910:THR:OG1	1:A:1910:THR:O	2.27	0.49
1:B:279:LEU:HD21	1:B:294:GLN:HB2	1.94	0.49
1:B:2216:TYR:OH	1:C:2010:GLU:OE1	2.28	0.49
1:C:659:MET:O	1:C:663:ASP:HB2	2.13	0.49
1:C:1836:TYR:CD2	1:C:1941:ILE:HD12	2.47	0.49
1:C:1925:TRP:O	1:C:1929:GLU:HG3	2.13	0.49
1:C:2204:GLU:OE1	1:D:1962:SER:OG	2.20	0.49
1:C:2326:SER:N	1:C:2339:ALA:O	2.45	0.49
1:C:2459:ASP:OD2	1:C:2460:ILE:N	2.46	0.49
1:D:310:VAL:HG22	1:D:311:TYR:H	1.77	0.49
1:D:420:LYS:HB2	1:D:423:PRO:O	2.12	0.49
1:D:1620:ASN:HD21	1:D:1622:ALA:HB3	1.77	0.49
1:D:1925:TRP:O	1:D:1929:GLU:HG3	2.13	0.49
1:D:2459:ASP:OD2	1:D:2460:ILE:N	2.46	0.49
1:E:345:TYR:O	1:E:360:PHE:HA	2.13	0.49
1:E:543:ASP:O	1:E:544:ILE:HG12	2.12	0.49
1:E:1034:THR:HA	1:E:1037:GLU:OE1	2.11	0.49
1:E:2343:LEU:HD12	1:E:2344:HIS:H	1.77	0.49
1:A:345:TYR:O	1:A:360:PHE:HA	2.13	0.49
1:A:1925:TRP:O	1:A:1929:GLU:HG3	2.13	0.49
1:A:2270:MET:SD	1:E:2223:LEU:HB2	2.52	0.49
1:B:420:LYS:HB2	1:B:423:PRO:O	2.12	0.49
1:C:1061:GLU:HA	1:C:1572:THR:HG21	1.94	0.49
1:D:247:ILE:HD13	1:D:455:ARG:NH1	2.27	0.49
1:D:642:SER:O	1:D:646:GLN:HG2	2.13	0.49
1:D:1299:ILE:HG22	1:D:1500:SER:HA	1.95	0.49
1:D:1708:SER:O	1:D:1710:ASN:N	2.46	0.49
1:D:1910:THR:OG1	1:D:1910:THR:O	2.27	0.49
1:E:659:MET:O	1:E:663:ASP:HB2	2.13	0.49
1:E:1827:LEU:O	1:E:1831:ARG:HG3	2.12	0.49
1:A:1105:LYS:HB2	1:A:1115:ALA:HB2	1.95	0.49
1:A:1624:THR:OG1	1:A:1626:TYR:HE1	1.96	0.49
1:A:1708:SER:O	1:A:1710:ASN:N	2.46	0.49
1:A:2343:LEU:HD12	1:A:2344:HIS:H	1.77	0.49
1:B:1624:THR:OG1	1:B:1626:TYR:HE1	1.96	0.49
1:D:1105:LYS:HB2	1:D:1115:ALA:HB2	1.95	0.49
1:E:1061:GLU:HA	1:E:1572:THR:HG21	1.94	0.49
1:E:1299:ILE:HG22	1:E:1500:SER:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2459:ASP:OD2	1:E:2460:ILE:N	2.46	0.49
1:A:128:ARG:HD3	1:A:1881:LYS:NZ	2.28	0.49
1:A:659:MET:O	1:A:663:ASP:HB2	2.13	0.49
1:B:686:ILE:H	1:B:686:ILE:HD12	1.78	0.49
1:C:279:LEU:HD21	1:C:294:GLN:HB2	1.94	0.49
1:C:543:ASP:O	1:C:544:ILE:HG12	2.12	0.49
1:C:1624:THR:OG1	1:C:1626:TYR:HE1	1.96	0.49
1:C:2409:ILE:N	1:C:2411:ASP:OD1	2.45	0.49
1:D:375:GLY:O	1:D:414:ILE:HG13	2.13	0.49
1:D:840:LEU:O	1:D:844:GLY:HA2	2.13	0.49
1:E:1286:ILE:HG13	1:E:1304:LEU:HG	1.94	0.49
1:E:1925:TRP:O	1:E:1929:GLU:HG3	2.13	0.49
1:A:420:LYS:HB2	1:A:423:PRO:O	2.12	0.49
1:A:897:GLY:HA3	1:E:556:GLU:OE2	2.12	0.49
1:A:1299:ILE:HG22	1:A:1500:SER:HA	1.95	0.49
1:A:1620:ASN:HD21	1:A:1622:ALA:HB3	1.77	0.49
1:B:659:MET:O	1:B:663:ASP:HB2	2.13	0.49
1:B:1836:TYR:CD2	1:B:1941:ILE:HD12	2.47	0.49
1:B:2379:VAL:HA	1:B:2453:LEU:HD22	1.95	0.49
1:C:375:GLY:O	1:C:414:ILE:HG13	2.12	0.49
1:C:1620:ASN:HD21	1:C:1622:ALA:HB3	1.77	0.49
1:D:2409:ILE:N	1:D:2411:ASP:OD1	2.45	0.49
1:E:2379:VAL:HA	1:E:2453:LEU:HD22	1.94	0.49
1:A:322:ILE:HG12	1:B:1867:SER:HB2	1.95	0.49
1:A:642:SER:O	1:A:646:GLN:HG2	2.13	0.49
1:A:840:LEU:O	1:A:844:GLY:HA2	2.13	0.49
1:A:2459:ASP:OD2	1:A:2460:ILE:N	2.46	0.49
1:B:185:LYS:O	1:B:189:THR:HG23	2.13	0.49
1:B:474:VAL:HB	1:B:477:ASP:HB2	1.95	0.49
1:E:686:ILE:H	1:E:686:ILE:HD12	1.78	0.49
1:A:973:ASN:HD21	1:B:1849:MET:HE3	1.77	0.48
1:B:375:GLY:O	1:B:414:ILE:HG13	2.12	0.48
1:C:840:LEU:O	1:C:844:GLY:HA2	2.13	0.48
1:C:2174:GLN:HA	1:D:2049:ILE:HD11	1.95	0.48
1:E:149:LEU:O	1:E:1875:LEU:N	2.46	0.48
1:A:375:GLY:O	1:A:414:ILE:HG13	2.13	0.48
1:A:973:ASN:HD21	1:B:1849:MET:HE2	1.77	0.48
1:A:1836:TYR:CD2	1:A:1941:ILE:HD12	2.47	0.48
1:A:2082:LEU:HB3	1:E:2141:ALA:HB2	1.95	0.48
1:B:1105:LYS:HB2	1:B:1115:ALA:HB2	1.95	0.48
1:B:1925:TRP:O	1:B:1929:GLU:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1286:ILE:HG13	1:C:1304:LEU:HG	1.94	0.48
1:C:1316:LYS:H	1:C:1317:LEU:HD23	1.78	0.48
1:D:345:TYR:O	1:D:360:PHE:HA	2.13	0.48
1:D:1624:THR:OG1	1:D:1626:TYR:HE1	1.96	0.48
1:E:128:ARG:HD3	1:E:1881:LYS:NZ	2.28	0.48
1:E:1708:SER:O	1:E:1710:ASN:N	2.46	0.48
1:A:471:LEU:HB3	1:A:473:HIS:NE2	2.29	0.48
1:B:128:ARG:HD3	1:B:1881:LYS:NZ	2.28	0.48
1:C:642:SER:O	1:C:646:GLN:HG2	2.13	0.48
1:C:2259:SER:OG	1:C:2260:GLY:N	2.47	0.48
1:C:2302:LEU:HD22	1:C:2347:PHE:CE2	2.48	0.48
1:C:2343:LEU:HD12	1:C:2344:HIS:H	1.77	0.48
1:D:2236:ALA:HB3	1:E:2284:GLN:OE1	2.13	0.48
1:E:546:MET:SD	1:E:569:LEU:HG	2.53	0.48
1:E:1732:MET:O	1:E:1787:ARG:NH2	2.42	0.48
1:B:2459:ASP:OD2	1:B:2460:ILE:N	2.45	0.48
1:C:471:LEU:HB3	1:C:473:HIS:NE2	2.29	0.48
1:C:1299:ILE:HG22	1:C:1500:SER:HA	1.95	0.48
1:C:1708:SER:O	1:C:1710:ASN:N	2.46	0.48
1:E:185:LYS:O	1:E:189:THR:HG23	2.13	0.48
1:E:375:GLY:O	1:E:414:ILE:HG13	2.12	0.48
1:E:1316:LYS:H	1:E:1317:LEU:HD23	1.78	0.48
1:E:2259:SER:OG	1:E:2260:GLY:N	2.47	0.48
1:A:803:ARG:HH12	1:A:859:PRO:HA	1.79	0.48
1:A:1316:LYS:H	1:A:1317:LEU:HD23	1.78	0.48
1:A:2038:GLN:HG3	1:E:2187:MET:SD	2.53	0.48
1:B:195:ARG:NH1	1:B:926:GLU:OE2	2.39	0.48
1:B:247:ILE:HD13	1:B:455:ARG:NH1	2.27	0.48
1:B:345:TYR:O	1:B:360:PHE:HA	2.13	0.48
1:B:546:MET:SD	1:B:569:LEU:HG	2.53	0.48
1:B:642:SER:O	1:B:646:GLN:HG2	2.13	0.48
1:B:873:LYS:O	1:B:876:THR:HG22	2.14	0.48
1:B:1517:LYS:HD3	1:B:1531:THR:OG1	2.14	0.48
1:C:185:LYS:O	1:C:189:THR:HG23	2.13	0.48
1:C:546:MET:SD	1:C:569:LEU:HG	2.53	0.48
1:D:543:ASP:O	1:D:544:ILE:HG12	2.12	0.48
1:D:546:MET:SD	1:D:569:LEU:HG	2.53	0.48
1:D:659:MET:O	1:D:663:ASP:HB2	2.13	0.48
1:D:803:ARG:HH12	1:D:859:PRO:HA	1.79	0.48
1:D:2375:LEU:N	1:D:2408:GLY:O	2.37	0.48
1:E:474:VAL:HB	1:E:477:ASP:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:803:ARG:HH12	1:E:859:PRO:HA	1.79	0.48
1:A:419:LYS:HG3	1:A:424:ALA:HB3	1.96	0.48
1:A:630:ASP:N	1:A:630:ASP:OD1	2.46	0.48
1:A:1849:MET:HE3	1:E:973:ASN:HD21	1.78	0.48
1:B:630:ASP:OD1	1:B:630:ASP:N	2.46	0.48
1:B:1316:LYS:H	1:B:1317:LEU:HD23	1.78	0.48
1:D:128:ARG:HD3	1:D:1881:LYS:NZ	2.28	0.48
1:D:471:LEU:HB3	1:D:473:HIS:NE2	2.29	0.48
1:D:474:VAL:HB	1:D:477:ASP:HB2	1.95	0.48
1:D:1316:LYS:H	1:D:1317:LEU:HD23	1.78	0.48
1:D:2388:ILE:O	1:D:2441:SER:N	2.43	0.48
1:E:840:LEU:O	1:E:844:GLY:HA2	2.13	0.48
1:A:1776:PRO:HB2	1:E:977:ALA:HA	1.95	0.48
1:A:2259:SER:OG	1:A:2260:GLY:N	2.47	0.48
1:C:710:ILE:O	1:C:713:SER:OG	2.30	0.48
1:D:630:ASP:N	1:D:630:ASP:OD1	2.46	0.48
1:D:1613:ASP:N	1:D:1617:HIS:HD2	2.07	0.48
1:D:2259:SER:OG	1:D:2260:GLY:N	2.47	0.48
1:E:1624:THR:OG1	1:E:1626:TYR:HE1	1.96	0.48
1:A:185:LYS:O	1:A:189:THR:HG23	2.13	0.48
1:A:1061:GLU:HA	1:A:1572:THR:HG21	1.94	0.48
1:A:2017:MET:HB2	1:E:2205:PHE:HE2	1.78	0.48
1:B:149:LEU:O	1:B:1875:LEU:N	2.46	0.48
1:B:1061:GLU:HA	1:B:1572:THR:HG21	1.94	0.48
1:B:2042:GLU:O	1:B:2046:GLU:HG2	2.14	0.48
1:C:2145:SER:OG	1:D:2079:THR:HG21	2.14	0.48
1:E:630:ASP:OD1	1:E:630:ASP:N	2.46	0.48
1:E:777:GLN:O	1:E:780:SER:OG	2.32	0.48
1:A:474:VAL:HB	1:A:477:ASP:HB2	1.95	0.48
1:A:546:MET:SD	1:A:569:LEU:HG	2.53	0.48
1:A:2379:VAL:HA	1:A:2453:LEU:HD22	1.94	0.48
1:B:1299:ILE:HG22	1:B:1500:SER:HA	1.95	0.48
1:B:1732:MET:O	1:B:1787:ARG:NH2	2.42	0.48
1:B:2302:LEU:HD22	1:B:2347:PHE:CE2	2.48	0.48
1:C:1105:LYS:HB2	1:C:1115:ALA:HB2	1.95	0.48
1:D:2155:GLN:OE1	1:E:2067:LEU:HD21	2.14	0.48
1:D:2223:LEU:HB2	1:E:2270:MET:CE	2.43	0.48
1:E:642:SER:O	1:E:646:GLN:HG2	2.13	0.48
1:A:2302:LEU:HD22	1:A:2347:PHE:CE2	2.48	0.48
1:B:471:LEU:HB3	1:B:473:HIS:NE2	2.29	0.48
1:C:474:VAL:HB	1:C:477:ASP:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1613:ASP:N	1:C:1617:HIS:HD2	2.07	0.48
1:D:124:TYR:OH	1:D:140:ASP:OD1	2.24	0.48
1:D:185:LYS:O	1:D:189:THR:HG23	2.13	0.48
1:D:419:LYS:HG3	1:D:424:ALA:HB3	1.96	0.48
1:D:1517:LYS:HD3	1:D:1531:THR:OG1	2.14	0.48
1:D:2346:ALA:HB1	1:D:2437:SER:HB3	1.96	0.48
1:A:777:GLN:O	1:A:780:SER:OG	2.32	0.47
1:A:1186:GLU:O	1:A:1188:ASN:N	2.47	0.47
1:A:1489:ARG:O	1:A:1489:ARG:NH1	2.34	0.47
1:B:840:LEU:O	1:B:844:GLY:HA2	2.13	0.47
1:B:2259:SER:OG	1:B:2260:GLY:N	2.47	0.47
1:B:2368:ILE:HG12	1:B:2430:ILE:O	2.14	0.47
1:E:494:LYS:HB2	1:E:494:LYS:HE3	1.69	0.47
1:E:1253:THR:OG1	1:E:1256:THR:HG22	2.14	0.47
1:E:2346:ALA:HB1	1:E:2437:SER:HB3	1.96	0.47
1:A:1517:LYS:HD3	1:A:1531:THR:OG1	2.14	0.47
1:B:339:ASP:OD2	1:B:343:ALA:N	2.47	0.47
1:C:419:LYS:HG3	1:C:424:ALA:HB3	1.96	0.47
1:C:662:LEU:HD11	1:C:787:THR:HA	1.96	0.47
1:C:1517:LYS:HD3	1:C:1531:THR:OG1	2.14	0.47
1:C:2388:ILE:O	1:C:2441:SER:N	2.43	0.47
1:D:873:LYS:O	1:D:876:THR:HG22	2.14	0.47
1:D:2342:GLN:N	1:D:2342:GLN:OE1	2.47	0.47
1:E:1105:LYS:HB2	1:E:1115:ALA:HB2	1.95	0.47
1:A:301:ILE:HA	1:A:319:ILE:HD11	1.97	0.47
1:A:572:LEU:O	1:A:576:THR:OG1	2.32	0.47
1:A:686:ILE:HD12	1:A:686:ILE:H	1.78	0.47
1:A:906:GLN:C	1:A:906:GLN:OE1	2.53	0.47
1:B:662:LEU:HD11	1:B:787:THR:HA	1.96	0.47
1:C:128:ARG:HD3	1:C:1881:LYS:NZ	2.28	0.47
1:C:2137:THR:HG23	1:D:2082:LEU:HD22	1.95	0.47
1:D:2302:LEU:HD22	1:D:2347:PHE:CE2	2.48	0.47
1:E:906:GLN:C	1:E:906:GLN:OE1	2.53	0.47
1:E:1186:GLU:O	1:E:1188:ASN:N	2.47	0.47
1:B:395:GLU:HB3	1:B:397:TYR:CE2	2.50	0.47
1:B:803:ARG:HH12	1:B:859:PRO:HA	1.79	0.47
1:C:301:ILE:HA	1:C:319:ILE:HD11	1.97	0.47
1:C:777:GLN:O	1:C:780:SER:OG	2.32	0.47
1:D:730:LEU:HD11	1:D:751:LYS:HG2	1.97	0.47
1:D:777:GLN:O	1:D:780:SER:OG	2.32	0.47
1:A:395:GLU:HB3	1:A:397:TYR:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:686:ILE:HG23	1:A:740:ILE:HD13	1.97	0.47
1:A:730:LEU:HD11	1:A:751:LYS:HG2	1.97	0.47
1:A:2222:ARG:HB3	1:B:2270:MET:HE1	1.95	0.47
1:B:354:ASN:OD1	1:B:404:ASP:HA	2.15	0.47
1:C:686:ILE:H	1:C:686:ILE:HD12	1.78	0.47
1:C:873:LYS:O	1:C:876:THR:HG22	2.14	0.47
1:C:1186:GLU:O	1:C:1188:ASN:N	2.47	0.47
1:C:2042:GLU:O	1:C:2046:GLU:HG2	2.14	0.47
1:D:305:LEU:HD11	1:D:465:HIS:HE1	1.79	0.47
1:D:662:LEU:HD11	1:D:787:THR:HA	1.96	0.47
1:D:1253:THR:OG1	1:D:1256:THR:HG22	2.14	0.47
1:E:36:SER:HB2	1:E:1489:ARG:HH21	1.80	0.47
1:E:1517:LYS:HD3	1:E:1531:THR:OG1	2.14	0.47
1:E:2302:LEU:HD22	1:E:2347:PHE:CE2	2.48	0.47
1:A:1509:ILE:HA	1:A:1510:ASN:HA	1.62	0.47
1:B:686:ILE:HG23	1:B:740:ILE:HD13	1.97	0.47
1:B:906:GLN:C	1:B:906:GLN:OE1	2.53	0.47
1:C:354:ASN:OD1	1:C:404:ASP:HA	2.15	0.47
1:C:2342:GLN:OE1	1:C:2342:GLN:N	2.47	0.47
1:D:339:ASP:OD2	1:D:343:ALA:N	2.47	0.47
1:D:686:ILE:HD12	1:D:686:ILE:H	1.78	0.47
1:D:1186:GLU:O	1:D:1188:ASN:N	2.48	0.47
1:D:2368:ILE:HG12	1:D:2430:ILE:O	2.14	0.47
1:E:395:GLU:HB3	1:E:397:TYR:CE2	2.50	0.47
1:A:273:ILE:HD12	1:A:273:ILE:H	1.80	0.47
1:A:354:ASN:OD1	1:A:404:ASP:HA	2.15	0.47
1:A:1253:THR:OG1	1:A:1256:THR:HG22	2.14	0.47
1:A:2009:ILE:HG21	1:E:2210:PHE:CD2	2.50	0.47
1:A:2042:GLU:O	1:A:2046:GLU:HG2	2.14	0.47
1:A:2102:ALA:HB2	1:C:1093:PRO:HG3	1.96	0.47
1:A:2346:ALA:HB1	1:A:2437:SER:HB3	1.96	0.47
1:B:419:LYS:HG3	1:B:424:ALA:HB3	1.96	0.47
1:B:842:LEU:HD12	1:B:861:ARG:HG2	1.97	0.47
1:B:1253:THR:OG1	1:B:1256:THR:HG22	2.14	0.47
1:C:345:TYR:O	1:C:360:PHE:HA	2.13	0.47
1:C:803:ARG:HH12	1:C:859:PRO:HA	1.79	0.47
1:C:842:LEU:HD12	1:C:861:ARG:HG2	1.97	0.47
1:C:2368:ILE:HG12	1:C:2430:ILE:O	2.14	0.47
1:D:301:ILE:HA	1:D:319:ILE:HD11	1.97	0.47
1:D:1159:ASP:OD1	1:D:1159:ASP:N	2.43	0.47
1:D:1310:ILE:HG13	1:D:1311:ASN:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2042:GLU:O	1:D:2046:GLU:HG2	2.14	0.47
1:D:2226:ILE:HA	1:E:2277:LEU:HD22	1.95	0.47
1:E:471:LEU:HB3	1:E:473:HIS:NE2	2.29	0.47
1:E:686:ILE:HG23	1:E:740:ILE:HD13	1.97	0.47
1:E:730:LEU:HD11	1:E:751:LYS:HG2	1.97	0.47
1:E:873:LYS:O	1:E:876:THR:HG22	2.14	0.47
1:E:1613:ASP:N	1:E:1617:HIS:HD2	2.07	0.47
1:E:2042:GLU:O	1:E:2046:GLU:HG2	2.14	0.47
1:E:2342:GLN:OE1	1:E:2342:GLN:N	2.47	0.47
1:A:305:LEU:HD11	1:A:465:HIS:HE1	1.79	0.47
1:A:873:LYS:O	1:A:876:THR:HG22	2.14	0.47
1:A:1310:ILE:HG13	1:A:1311:ASN:N	2.30	0.47
1:B:1186:GLU:O	1:B:1188:ASN:N	2.48	0.47
1:B:1485:PRO:O	1:B:1490:GLU:HG2	2.15	0.47
1:B:1509:ILE:HA	1:B:1510:ASN:HA	1.62	0.47
1:C:305:LEU:HD11	1:C:465:HIS:HE1	1.79	0.47
1:C:450:LEU:HG	1:C:454:LEU:HD23	1.97	0.47
1:C:840:LEU:HD12	1:C:845:GLN:HG2	1.97	0.47
1:C:1253:THR:OG1	1:C:1256:THR:HG22	2.14	0.47
1:D:842:LEU:HD12	1:D:861:ARG:HG2	1.97	0.47
1:D:2402:ALA:HB3	1:E:2294:LEU:HD21	1.97	0.47
1:E:419:LYS:HG3	1:E:424:ALA:HB3	1.96	0.47
1:E:710:ILE:O	1:E:713:SER:OG	2.30	0.47
1:E:1887:PHE:CE1	1:E:1891:ILE:HD11	2.50	0.47
1:A:679:ASP:O	1:A:683:ASN:ND2	2.48	0.47
1:A:840:LEU:HD12	1:A:845:GLN:HG2	1.97	0.47
1:A:1887:PHE:CE1	1:A:1891:ILE:HD11	2.50	0.47
1:B:777:GLN:O	1:B:780:SER:OG	2.32	0.47
1:B:2346:ALA:HB1	1:B:2437:SER:HB3	1.96	0.47
1:C:686:ILE:HG23	1:C:740:ILE:HD13	1.97	0.47
1:D:354:ASN:OD1	1:D:404:ASP:HA	2.15	0.47
1:E:301:ILE:HA	1:E:319:ILE:HD11	1.97	0.47
1:E:1194:LYS:O	1:E:1215:ILE:HB	2.15	0.47
1:A:212:LEU:HD21	1:A:217:PHE:HD2	1.80	0.47
1:A:2342:GLN:N	1:A:2342:GLN:OE1	2.47	0.47
1:C:630:ASP:N	1:C:630:ASP:OD1	2.46	0.47
1:C:2033:LEU:HD23	1:C:2033:LEU:HA	1.79	0.47
1:C:2216:TYR:OH	1:D:2010:GLU:OE1	2.32	0.47
1:C:2346:ALA:HB1	1:C:2437:SER:HB3	1.96	0.47
1:D:679:ASP:O	1:D:683:ASN:ND2	2.48	0.47
1:D:1150:GLN:HE21	1:D:1152:GLN:HE21	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1880:ASP:HB2	1:D:1883:GLN:HB2	1.97	0.47
1:E:273:ILE:H	1:E:273:ILE:HD12	1.80	0.47
1:E:410:LYS:HE3	1:E:411:LYS:H	1.80	0.47
1:A:1150:GLN:HE21	1:A:1152:GLN:HE21	1.63	0.46
1:B:305:LEU:HD11	1:B:465:HIS:HE1	1.79	0.46
1:B:410:LYS:HE3	1:B:411:LYS:H	1.80	0.46
1:C:378:LYS:HZ2	1:C:430:TYR:HE2	1.62	0.46
1:C:410:LYS:HE3	1:C:411:LYS:H	1.80	0.46
1:C:730:LEU:HD11	1:C:751:LYS:HG2	1.97	0.46
1:C:906:GLN:OE1	1:C:906:GLN:C	2.53	0.46
1:C:1887:PHE:CE1	1:C:1891:ILE:HD11	2.50	0.46
1:D:212:LEU:HD21	1:D:217:PHE:HD2	1.80	0.46
1:D:710:ILE:HD12	1:D:2210:PHE:HD1	1.81	0.46
1:D:906:GLN:C	1:D:906:GLN:OE1	2.53	0.46
1:D:1194:LYS:O	1:D:1215:ILE:HB	2.15	0.46
1:D:2093:ILE:HG23	1:D:2132:LEU:HD13	1.98	0.46
1:E:840:LEU:HD12	1:E:845:GLN:HG2	1.97	0.46
1:E:1150:GLN:HE21	1:E:1152:GLN:HE21	1.63	0.46
1:E:1485:PRO:O	1:E:1490:GLU:HG2	2.15	0.46
1:A:662:LEU:HD11	1:A:787:THR:HA	1.96	0.46
1:A:1994:LEU:HD23	1:A:1994:LEU:HA	1.76	0.46
1:B:212:LEU:HD21	1:B:217:PHE:HD2	1.80	0.46
1:C:36:SER:HB2	1:C:1489:ARG:HH21	1.80	0.46
1:C:43:SER:OG	1:C:44:ARG:N	2.49	0.46
1:C:395:GLU:HB3	1:C:397:TYR:CE2	2.50	0.46
1:C:989:GLU:HG2	1:C:989:GLU:O	2.16	0.46
1:C:1469:PHE:CE1	1:C:1471:THR:HG22	2.51	0.46
1:C:2375:LEU:N	1:C:2408:GLY:O	2.37	0.46
1:E:1316:LYS:HB2	1:E:1317:LEU:HA	1.98	0.46
1:E:2368:ILE:HG12	1:E:2430:ILE:O	2.14	0.46
1:A:1271:PHE:CE1	1:A:1534:LEU:HD13	2.51	0.46
1:A:2368:ILE:HG12	1:A:2430:ILE:O	2.14	0.46
1:B:989:GLU:O	1:B:989:GLU:HG2	2.16	0.46
1:B:1310:ILE:HG13	1:B:1311:ASN:N	2.30	0.46
1:B:2342:GLN:OE1	1:B:2342:GLN:N	2.47	0.46
1:C:273:ILE:H	1:C:273:ILE:HD12	1.80	0.46
1:C:1150:GLN:HE21	1:C:1152:GLN:HE21	1.64	0.46
1:D:1983:ARG:NH1	1:D:2419:PHE:O	2.48	0.46
1:E:354:ASN:OD1	1:E:404:ASP:HA	2.15	0.46
1:E:1880:ASP:HB2	1:E:1883:GLN:HB2	1.97	0.46
1:E:2093:ILE:HG23	1:E:2132:LEU:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:LYS:HD2	1:A:243:LYS:HA	1.63	0.46
1:A:450:LEU:HG	1:A:454:LEU:HD23	1.97	0.46
1:A:1145:LEU:HD11	1:A:1165:LEU:HD11	1.97	0.46
1:A:1194:LYS:O	1:A:1215:ILE:HB	2.15	0.46
1:B:2174:GLN:HA	1:C:2049:ILE:HD11	1.97	0.46
1:C:1271:PHE:CE1	1:C:1534:LEU:HD13	2.51	0.46
1:C:2391:TYR:CE1	1:C:2436:ASN:HB2	2.51	0.46
1:D:1271:PHE:CE1	1:D:1534:LEU:HD13	2.51	0.46
1:D:1871:GLU:OE1	1:D:1871:GLU:N	2.41	0.46
1:D:1887:PHE:CE1	1:D:1891:ILE:HD11	2.50	0.46
1:E:1271:PHE:CE1	1:E:1534:LEU:HD13	2.51	0.46
1:A:36:SER:HB2	1:A:1489:ARG:HH21	1.80	0.46
1:A:842:LEU:HD12	1:A:861:ARG:HG2	1.97	0.46
1:A:989:GLU:O	1:A:989:GLU:HG2	2.16	0.46
1:A:1950:VAL:HG13	1:E:906:GLN:HE21	1.78	0.46
1:B:43:SER:OG	1:B:44:ARG:N	2.49	0.46
1:B:572:LEU:O	1:B:576:THR:OG1	2.32	0.46
1:B:840:LEU:HD12	1:B:845:GLN:HG2	1.97	0.46
1:B:973:ASN:HD21	1:C:1849:MET:HE3	1.80	0.46
1:B:1887:PHE:CE1	1:B:1891:ILE:HD11	2.50	0.46
1:C:1732:MET:O	1:C:1787:ARG:NH2	2.42	0.46
1:C:2409:ILE:O	1:C:2409:ILE:HG13	2.16	0.46
1:D:43:SER:OG	1:D:44:ARG:N	2.48	0.46
1:D:395:GLU:HB3	1:D:397:TYR:CE2	2.50	0.46
1:D:686:ILE:HG23	1:D:740:ILE:HD13	1.97	0.46
1:D:2223:LEU:HD13	1:E:2273:GLU:HG2	1.97	0.46
1:D:2391:TYR:CE1	1:D:2436:ASN:HB2	2.51	0.46
1:E:305:LEU:HD11	1:E:465:HIS:HE1	1.79	0.46
1:E:842:LEU:HD12	1:E:861:ARG:HG2	1.97	0.46
1:E:989:GLU:O	1:E:989:GLU:HG2	2.16	0.46
1:E:1145:LEU:HD11	1:E:1165:LEU:HD11	1.97	0.46
1:B:336:THR:HG23	1:B:434:THR:CG2	2.46	0.46
1:B:1150:GLN:HE21	1:B:1152:GLN:HE21	1.63	0.46
1:C:212:LEU:HD21	1:C:217:PHE:HD2	1.80	0.46
1:C:691:THR:C	1:C:693:THR:H	2.19	0.46
1:C:1714:PHE:CD2	1:C:1717:LEU:HD23	2.50	0.46
1:D:1714:PHE:CD2	1:D:1717:LEU:HD23	2.50	0.46
1:E:336:THR:HG23	1:E:434:THR:CG2	2.46	0.46
1:E:662:LEU:HD11	1:E:787:THR:HA	1.96	0.46
1:E:1310:ILE:HG13	1:E:1311:ASN:N	2.30	0.46
1:A:1315:TYR:HB3	1:A:1317:LEU:HG	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1714:PHE:CD2	1:A:1717:LEU:HD23	2.50	0.46
1:A:2093:ILE:HG23	1:A:2132:LEU:HD13	1.98	0.46
1:B:730:LEU:HD11	1:B:751:LYS:HG2	1.97	0.46
1:B:1194:LYS:O	1:B:1215:ILE:HB	2.15	0.46
1:B:2409:ILE:HG13	1:B:2409:ILE:O	2.16	0.46
1:C:1316:LYS:HB2	1:C:1317:LEU:HA	1.98	0.46
1:D:1153:LYS:HA	1:D:1159:ASP:HA	1.98	0.46
1:D:1469:PHE:CE1	1:D:1471:THR:HG22	2.51	0.46
1:A:43:SER:OG	1:A:44:ARG:N	2.49	0.46
1:A:339:ASP:OD2	1:A:343:ALA:N	2.47	0.46
1:B:301:ILE:HA	1:B:319:ILE:HD11	1.97	0.46
1:B:691:THR:C	1:B:693:THR:H	2.19	0.46
1:B:762:ARG:HD3	1:B:762:ARG:HA	1.73	0.46
1:B:1787:ARG:O	1:B:1791:GLU:HG2	2.16	0.46
1:C:1485:PRO:O	1:C:1490:GLU:HG2	2.15	0.46
1:D:103:LYS:O	1:D:1915:PRO:HD2	2.16	0.46
1:D:410:LYS:HE3	1:D:411:LYS:H	1.80	0.46
1:D:997:ASP:OD1	1:E:1767:ASN:ND2	2.49	0.46
1:D:1002:ARG:HD2	1:E:1846:GLU:CD	2.36	0.46
1:D:1145:LEU:HD11	1:D:1165:LEU:HD11	1.97	0.46
1:E:456:LEU:HD12	1:E:456:LEU:HA	1.78	0.46
1:E:679:ASP:O	1:E:683:ASN:ND2	2.48	0.46
1:A:177:GLN:HG3	1:A:931:VAL:HG22	1.98	0.46
1:A:336:THR:HG23	1:A:434:THR:CG2	2.46	0.46
1:A:365:THR:HG21	1:A:392:LEU:C	2.37	0.46
1:A:2391:TYR:CE1	1:A:2436:ASN:HB2	2.51	0.46
1:B:450:LEU:HG	1:B:454:LEU:HD23	1.97	0.46
1:B:1714:PHE:CD2	1:B:1717:LEU:HD23	2.50	0.46
1:C:149:LEU:O	1:C:1875:LEU:N	2.46	0.46
1:C:365:THR:HG21	1:C:392:LEU:C	2.37	0.46
1:C:572:LEU:O	1:C:576:THR:OG1	2.32	0.46
1:C:1145:LEU:HD11	1:C:1165:LEU:HD11	1.97	0.46
1:C:1153:LYS:HA	1:C:1159:ASP:HA	1.98	0.46
1:C:1194:LYS:O	1:C:1215:ILE:HB	2.15	0.46
1:C:1838:MET:O	1:C:1843:THR:OG1	2.30	0.46
1:C:2093:ILE:HG23	1:C:2132:LEU:HD13	1.98	0.46
1:D:1141:ARG:HD2	1:E:1576:ILE:HD11	1.98	0.46
1:E:691:THR:C	1:E:693:THR:H	2.19	0.46
1:E:2409:ILE:O	1:E:2409:ILE:HG13	2.16	0.46
1:A:710:ILE:HD12	1:A:2210:PHE:HD1	1.81	0.46
1:B:36:SER:HB2	1:B:1489:ARG:HH21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:999:CYS:SG	1:B:1009:VAL:HG21	2.56	0.46
1:B:1469:PHE:CE1	1:B:1471:THR:HG22	2.51	0.46
1:C:1787:ARG:O	1:C:1791:GLU:HG2	2.16	0.46
1:D:336:THR:HG23	1:D:434:THR:CG2	2.46	0.46
1:D:1315:TYR:HB3	1:D:1317:LEU:HG	1.98	0.46
1:D:1485:PRO:O	1:D:1490:GLU:HG2	2.15	0.46
1:D:1787:ARG:O	1:D:1791:GLU:HG2	2.16	0.46
1:D:2200:GLN:NE2	1:E:1962:SER:HB2	2.31	0.46
1:E:1798:ASP:HB3	1:E:1801:ASP:OD2	2.17	0.46
1:A:237:ASP:OD1	1:A:494:LYS:NZ	2.49	0.45
1:B:133:LYS:HB3	1:B:133:LYS:HE2	1.72	0.45
1:B:273:ILE:H	1:B:273:ILE:HD12	1.80	0.45
1:B:1145:LEU:HD11	1:B:1165:LEU:HD11	1.97	0.45
1:C:999:CYS:SG	1:C:1009:VAL:HG21	2.56	0.45
1:D:273:ILE:HD12	1:D:273:ILE:H	1.80	0.45
1:D:2237:ARG:HH22	1:E:2283:GLU:CG	2.29	0.45
1:E:103:LYS:O	1:E:1915:PRO:HD2	2.16	0.45
1:E:762:ARG:HD3	1:E:762:ARG:HA	1.73	0.45
1:E:1743:TRP:CZ2	1:E:1788:PRO:HB2	2.52	0.45
1:E:1787:ARG:O	1:E:1791:GLU:HG2	2.16	0.45
1:E:1994:LEU:HD23	1:E:1994:LEU:HA	1.76	0.45
1:A:102:GLU:O	1:A:103:LYS:HD3	2.16	0.45
1:A:410:LYS:HE3	1:A:411:LYS:H	1.80	0.45
1:A:1469:PHE:CE1	1:A:1471:THR:HG22	2.51	0.45
1:A:1880:ASP:HB2	1:A:1883:GLN:HB2	1.97	0.45
1:A:2409:ILE:HG13	1:A:2409:ILE:O	2.16	0.45
1:B:679:ASP:O	1:B:683:ASN:ND2	2.49	0.45
1:B:923:LEU:HD23	1:B:923:LEU:HA	1.79	0.45
1:B:2093:ILE:HG23	1:B:2132:LEU:HD13	1.98	0.45
1:C:124:TYR:OH	1:C:140:ASP:OD1	2.24	0.45
1:C:175:MET:HE2	1:C:183:LYS:HA	1.98	0.45
1:C:237:ASP:OD1	1:C:494:LYS:NZ	2.49	0.45
1:C:679:ASP:O	1:C:683:ASN:ND2	2.49	0.45
1:C:710:ILE:HD12	1:C:2210:PHE:HD1	1.81	0.45
1:C:2447:GLY:HA2	1:C:2451:LYS:HD2	1.98	0.45
1:D:102:GLU:O	1:D:103:LYS:HD3	2.16	0.45
1:D:177:GLN:HG3	1:D:931:VAL:HG22	1.99	0.45
1:D:237:ASP:OD1	1:D:494:LYS:NZ	2.49	0.45
1:D:2030:LEU:HA	1:D:2030:LEU:HD23	1.71	0.45
1:E:43:SER:OG	1:E:44:ARG:N	2.49	0.45
1:E:365:THR:HG21	1:E:392:LEU:C	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:999:CYS:SG	1:E:1009:VAL:HG21	2.56	0.45
1:E:1206:ASN:OD1	1:E:1206:ASN:N	2.49	0.45
1:E:1469:PHE:CE1	1:E:1471:THR:HG22	2.51	0.45
1:E:1714:PHE:CD2	1:E:1717:LEU:HD23	2.50	0.45
1:A:1001:LYS:HG3	1:B:1849:MET:HE1	1.96	0.45
1:A:1032:MET:HE1	1:A:1748:TYR:HB3	1.98	0.45
1:A:1485:PRO:O	1:A:1490:GLU:HG2	2.15	0.45
1:A:1607:LEU:HB2	1:A:1652:VAL:HG13	1.99	0.45
1:A:1630:ASP:OD2	1:A:1632:THR:OG1	2.15	0.45
1:B:365:THR:HG21	1:B:392:LEU:C	2.37	0.45
1:B:1206:ASN:N	1:B:1206:ASN:OD1	2.50	0.45
1:B:1880:ASP:HB2	1:B:1883:GLN:HB2	1.97	0.45
1:C:175:MET:HE1	1:C:183:LYS:HG2	1.98	0.45
1:C:336:THR:HG23	1:C:434:THR:CG2	2.46	0.45
1:C:1880:ASP:HB2	1:C:1883:GLN:HB2	1.97	0.45
1:D:149:LEU:O	1:D:1875:LEU:N	2.46	0.45
1:D:373:SER:N	1:D:417:THR:O	2.36	0.45
1:D:374:ILE:HG22	1:D:383:LEU:HD13	1.98	0.45
1:D:924:SER:HB2	1:D:942:ILE:HD12	1.98	0.45
1:D:1743:TRP:CZ2	1:D:1788:PRO:HB2	2.52	0.45
1:D:2161:LYS:HE2	1:D:2161:LYS:HB3	1.75	0.45
1:D:2233:LEU:O	1:E:2284:GLN:OE1	2.34	0.45
1:D:2409:ILE:HG13	1:D:2409:ILE:O	2.16	0.45
1:E:212:LEU:HD21	1:E:217:PHE:HD2	1.80	0.45
1:A:149:LEU:O	1:A:1875:LEU:N	2.46	0.45
1:A:691:THR:C	1:A:693:THR:H	2.19	0.45
1:A:924:SER:HB2	1:A:942:ILE:HD12	1.98	0.45
1:A:1316:LYS:HB2	1:A:1317:LEU:HA	1.98	0.45
1:B:1271:PHE:CE1	1:B:1534:LEU:HD13	2.51	0.45
1:B:1980:PRO:O	1:B:2424:TRP:HZ3	2.00	0.45
1:C:102:GLU:O	1:C:103:LYS:HD3	2.16	0.45
1:C:374:ILE:HG22	1:C:383:LEU:HD13	1.98	0.45
1:C:1206:ASN:OD1	1:C:1206:ASN:N	2.49	0.45
1:C:1315:TYR:HB3	1:C:1317:LEU:HG	1.98	0.45
1:D:365:THR:HG21	1:D:392:LEU:C	2.37	0.45
1:D:572:LEU:O	1:D:576:THR:OG1	2.32	0.45
1:D:840:LEU:HD12	1:D:845:GLN:HG2	1.97	0.45
1:D:923:LEU:HA	1:D:923:LEU:HD23	1.79	0.45
1:D:1173:ASP:OD1	1:D:1173:ASP:N	2.49	0.45
1:E:237:ASP:OD1	1:E:494:LYS:NZ	2.49	0.45
1:E:1153:LYS:HA	1:E:1159:ASP:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2358:TYR:CZ	1:E:2386:ARG:HB3	2.51	0.45
1:A:2447:GLY:HA2	1:A:2451:LYS:HD2	1.98	0.45
1:B:710:ILE:HD12	1:B:2210:PHE:HD1	1.81	0.45
1:B:1607:LEU:HB2	1:B:1652:VAL:HG13	1.99	0.45
1:B:1798:ASP:HB3	1:B:1801:ASP:OD2	2.17	0.45
1:B:2391:TYR:CE1	1:B:2436:ASN:HB2	2.51	0.45
1:B:2447:GLY:HA2	1:B:2451:LYS:HD2	1.98	0.45
1:C:775:GLU:HG2	1:C:801:ILE:HG21	1.99	0.45
1:C:1310:ILE:HG13	1:C:1311:ASN:N	2.30	0.45
1:D:36:SER:HB2	1:D:1489:ARG:HH21	1.80	0.45
1:D:730:LEU:HD21	1:D:751:LYS:HD3	1.98	0.45
1:E:450:LEU:HG	1:E:454:LEU:HD23	1.97	0.45
1:E:1315:TYR:HB3	1:E:1317:LEU:HG	1.98	0.45
1:E:2391:TYR:CE1	1:E:2436:ASN:HB2	2.51	0.45
1:A:308:PRO:HD2	1:A:473:HIS:O	2.16	0.45
1:A:549:ASP:OD2	1:A:549:ASP:N	2.50	0.45
1:A:1749:THR:HB	1:A:1750:PRO:HD3	1.99	0.45
1:C:243:LYS:HD2	1:C:243:LYS:HA	1.63	0.45
1:D:989:GLU:O	1:D:989:GLU:HG2	2.16	0.45
1:D:999:CYS:SG	1:D:1009:VAL:HG21	2.56	0.45
1:D:1798:ASP:HB3	1:D:1801:ASP:OD2	2.17	0.45
1:E:102:GLU:O	1:E:103:LYS:HD3	2.16	0.45
1:A:999:CYS:SG	1:A:1009:VAL:HG21	2.56	0.45
1:A:1743:TRP:CZ2	1:A:1788:PRO:HB2	2.52	0.45
1:B:494:LYS:HB2	1:B:494:LYS:HE3	1.69	0.45
1:B:1749:THR:HB	1:B:1750:PRO:HD3	1.99	0.45
1:C:1258:ARG:HA	1:C:1547:SER:HA	1.99	0.45
1:C:1980:PRO:O	1:C:2424:TRP:HZ3	2.00	0.45
1:D:1206:ASN:N	1:D:1206:ASN:OD1	2.49	0.45
1:E:308:PRO:HD2	1:E:473:HIS:O	2.16	0.45
1:E:710:ILE:HD12	1:E:2210:PHE:HD1	1.81	0.45
1:A:1206:ASN:N	1:A:1206:ASN:OD1	2.49	0.45
1:A:1613:ASP:N	1:A:1617:HIS:HD2	2.07	0.45
1:A:1798:ASP:HB3	1:A:1801:ASP:OD2	2.17	0.45
1:B:308:PRO:HD2	1:B:473:HIS:O	2.16	0.45
1:B:924:SER:HB2	1:B:942:ILE:HD12	1.98	0.45
1:B:2105:MET:O	1:B:2117:SER:OG	2.27	0.45
1:C:973:ASN:HD21	1:D:1849:MET:HE3	1.82	0.45
1:C:1509:ILE:HA	1:C:1510:ASN:HA	1.62	0.45
1:D:1316:LYS:HB2	1:D:1317:LEU:HA	1.98	0.45
1:D:1823:LYS:HA	1:D:1823:LYS:HD2	1.76	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1941:ILE:HG23	1:D:1942:ASP:OD1	2.17	0.45
1:E:243:LYS:HA	1:E:243:LYS:HD2	1.63	0.45
1:E:1258:ARG:HA	1:E:1547:SER:HA	1.99	0.45
1:B:103:LYS:O	1:B:1915:PRO:HD2	2.16	0.45
1:B:237:ASP:OD1	1:B:494:LYS:NZ	2.49	0.45
1:B:1316:LYS:HB2	1:B:1317:LEU:HA	1.98	0.45
1:D:195:ARG:HD3	1:D:930:LEU:HD21	1.99	0.45
1:D:308:PRO:HD2	1:D:473:HIS:O	2.16	0.45
1:D:1607:LEU:HD11	1:D:1679:LEU:HD23	1.99	0.45
1:E:404:ASP:N	1:E:404:ASP:OD1	2.50	0.45
1:E:994:LYS:HE2	1:E:994:LYS:HB2	1.87	0.45
1:E:1150:GLN:NE2	1:E:1152:GLN:HE21	2.15	0.45
1:E:1607:LEU:HB2	1:E:1652:VAL:HG13	1.99	0.45
1:A:146:LEU:HD23	1:A:146:LEU:HA	1.83	0.45
1:A:359:ASN:OD1	1:A:398:SER:OG	2.19	0.45
1:A:1610:LYS:HA	1:A:1649:ASN:ND2	2.32	0.45
1:A:1980:PRO:O	1:A:2424:TRP:HZ3	2.00	0.45
1:A:2034:ARG:O	1:E:2187:MET:HE1	2.17	0.45
1:B:1054:ARG:HD2	1:B:1054:ARG:HA	1.69	0.45
1:C:1743:TRP:CZ2	1:C:1788:PRO:HB2	2.52	0.45
1:D:322:ILE:CG1	1:E:1867:SER:HB2	2.47	0.45
1:E:1749:THR:HB	1:E:1750:PRO:HD3	1.99	0.45
1:A:730:LEU:HD21	1:A:751:LYS:HD3	1.99	0.44
1:B:549:ASP:OD2	1:B:549:ASP:N	2.50	0.44
1:B:1153:LYS:HA	1:B:1159:ASP:HA	1.98	0.44
1:B:1236:LYS:HE3	1:B:1236:LYS:HB2	1.70	0.44
1:B:1743:TRP:CZ2	1:B:1788:PRO:HB2	2.52	0.44
1:C:1610:LYS:HA	1:C:1649:ASN:ND2	2.32	0.44
1:C:1885:LYS:O	1:C:1889:ASP:HB2	2.18	0.44
1:D:775:GLU:HG2	1:D:801:ILE:HG21	1.99	0.44
1:D:1980:PRO:O	1:D:2424:TRP:HZ3	2.00	0.44
1:E:924:SER:HB2	1:E:942:ILE:HD12	1.98	0.44
1:A:2222:ARG:HD3	1:B:2270:MET:HE2	1.99	0.44
1:B:177:GLN:HG3	1:B:931:VAL:HG22	1.99	0.44
1:B:1315:TYR:HB3	1:B:1317:LEU:HG	1.98	0.44
1:B:2318:ALA:HA	1:B:2455:LEU:HD22	2.00	0.44
1:C:730:LEU:HD21	1:C:751:LYS:HD3	1.99	0.44
1:C:1607:LEU:HB2	1:C:1652:VAL:HG13	1.99	0.44
1:C:1865:ILE:HD13	1:C:1865:ILE:HA	1.84	0.44
1:C:2078:ARG:NH1	1:D:1040:SER:OG	2.47	0.44
1:D:450:LEU:HG	1:D:454:LEU:HD23	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:691:THR:C	1:D:693:THR:H	2.19	0.44
1:D:710:ILE:O	1:D:713:SER:OG	2.30	0.44
1:D:1258:ARG:HA	1:D:1547:SER:HA	1.99	0.44
1:D:2033:LEU:HA	1:D:2033:LEU:HD23	1.79	0.44
1:D:2305:VAL:O	1:D:2308:THR:OG1	2.30	0.44
1:E:1610:LYS:HA	1:E:1649:ASN:ND2	2.32	0.44
1:E:2396:LEU:HD11	1:E:2430:ILE:HG12	1.99	0.44
1:A:215:ARG:NH2	1:A:902:GLY:O	2.47	0.44
1:A:845:GLN:HG3	1:A:854:GLN:CD	2.38	0.44
1:A:1680:ASN:HD21	1:A:1690:GLN:HG3	1.82	0.44
1:A:1941:ILE:HG23	1:A:1942:ASP:OD1	2.17	0.44
1:B:102:GLU:O	1:B:103:LYS:HD3	2.16	0.44
1:B:339:ASP:OD2	1:B:342:GLN:HA	2.18	0.44
1:B:1150:GLN:NE2	1:B:1152:GLN:HE21	2.15	0.44
1:B:1258:ARG:HA	1:B:1547:SER:HA	1.99	0.44
1:C:339:ASP:OD2	1:C:342:GLN:HA	2.17	0.44
1:C:924:SER:HB2	1:C:942:ILE:HD12	1.98	0.44
1:D:339:ASP:OD2	1:D:342:GLN:HA	2.18	0.44
1:D:1610:LYS:HA	1:D:1649:ASN:ND2	2.32	0.44
1:D:2011:ARG:HH21	1:E:2010:GLU:HB2	1.83	0.44
1:D:2067:LEU:HA	1:D:2067:LEU:HD23	1.74	0.44
1:D:2075:GLU:OE2	1:E:1756:ARG:NH1	2.46	0.44
1:E:124:TYR:OH	1:E:140:ASP:OD1	2.24	0.44
1:E:374:ILE:HG22	1:E:383:LEU:HD13	1.98	0.44
1:E:1823:LYS:HD2	1:E:1823:LYS:HA	1.76	0.44
1:A:103:LYS:O	1:A:1915:PRO:HD2	2.16	0.44
1:A:2020:LEU:O	1:A:2024:GLN:HG3	2.18	0.44
1:B:845:GLN:HG3	1:B:854:GLN:CD	2.38	0.44
1:B:1885:LYS:O	1:B:1889:ASP:HB2	2.17	0.44
1:C:177:GLN:HG3	1:C:931:VAL:HG22	1.99	0.44
1:C:404:ASP:N	1:C:404:ASP:OD1	2.50	0.44
1:C:1749:THR:HB	1:C:1750:PRO:HD3	1.99	0.44
1:C:2249:THR:O	1:C:2251:ASP:N	2.48	0.44
1:E:730:LEU:HD21	1:E:751:LYS:HD3	1.99	0.44
1:E:1509:ILE:HA	1:E:1510:ASN:HA	1.62	0.44
1:E:1680:ASN:HD21	1:E:1690:GLN:HG3	1.82	0.44
1:E:1941:ILE:HG23	1:E:1942:ASP:OD1	2.17	0.44
1:A:1153:LYS:HA	1:A:1159:ASP:HA	1.98	0.44
1:A:1787:ARG:O	1:A:1791:GLU:HG2	2.16	0.44
1:B:775:GLU:HG2	1:B:801:ILE:HG21	1.99	0.44
1:B:1317:LEU:HD23	1:B:1317:LEU:HA	1.87	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:103:LYS:O	1:C:1915:PRO:HD2	2.16	0.44
1:C:284:ASN:O	1:C:928:ARG:NH2	2.51	0.44
1:C:308:PRO:HD2	1:C:473:HIS:O	2.16	0.44
1:D:404:ASP:OD1	1:D:404:ASP:N	2.50	0.44
1:D:1885:LYS:O	1:D:1889:ASP:HB2	2.17	0.44
1:D:2396:LEU:HD11	1:D:2430:ILE:HG12	1.99	0.44
1:E:1081:GLY:O	1:E:1103:HIS:HB2	2.18	0.44
1:E:1249:HIS:HB3	1:E:1543:GLN:NE2	2.33	0.44
1:E:2447:GLY:HA2	1:E:2451:LYS:HD2	1.98	0.44
1:A:165:LEU:HA	1:A:165:LEU:HD12	1.72	0.44
1:A:339:ASP:OD2	1:A:342:GLN:HA	2.18	0.44
1:A:374:ILE:HG22	1:A:383:LEU:HD13	1.98	0.44
1:A:404:ASP:OD1	1:A:404:ASP:N	2.50	0.44
1:B:195:ARG:HD3	1:B:930:LEU:HD21	1.99	0.44
1:B:1610:LYS:HA	1:B:1649:ASN:ND2	2.32	0.44
1:B:1680:ASN:HD21	1:B:1690:GLN:HG3	1.82	0.44
1:C:549:ASP:N	1:C:549:ASP:OD2	2.50	0.44
1:C:1150:GLN:NE2	1:C:1152:GLN:HE21	2.15	0.44
1:C:1317:LEU:HD23	1:C:1317:LEU:HA	1.87	0.44
1:C:1798:ASP:HB3	1:C:1801:ASP:OD2	2.16	0.44
1:D:494:LYS:HB2	1:D:494:LYS:HE3	1.69	0.44
1:D:845:GLN:HG3	1:D:854:GLN:CD	2.38	0.44
1:D:2447:GLY:HA2	1:D:2451:LYS:HD2	1.98	0.44
1:E:174:LEU:HD23	1:E:174:LEU:HA	1.86	0.44
1:E:284:ASN:O	1:E:928:ARG:NH2	2.51	0.44
1:E:1980:PRO:O	1:E:2424:TRP:HZ3	2.00	0.44
1:A:775:GLU:HG2	1:A:801:ILE:HG21	1.99	0.44
1:A:1249:HIS:HB3	1:A:1543:GLN:NE2	2.33	0.44
1:B:730:LEU:HD21	1:B:751:LYS:HD3	1.99	0.44
1:B:973:ASN:HD21	1:C:1849:MET:CE	2.30	0.44
1:C:195:ARG:HD3	1:C:930:LEU:HD21	1.99	0.44
1:C:1081:GLY:O	1:C:1103:HIS:HB2	2.18	0.44
1:D:2402:ALA:CB	1:E:2294:LEU:HD21	2.47	0.44
1:E:177:GLN:HG3	1:E:931:VAL:HG22	1.99	0.44
1:A:1607:LEU:HD11	1:A:1679:LEU:HD23	1.99	0.44
1:A:2243:LYS:HA	1:A:2243:LYS:HD2	1.80	0.44
1:A:2318:ALA:HA	1:A:2455:LEU:HD22	2.00	0.44
1:B:374:ILE:HG22	1:B:383:LEU:HD13	1.98	0.44
1:B:1646:VAL:HG11	1:B:1900:LEU:HD21	2.00	0.44
1:C:1941:ILE:HG23	1:C:1942:ASP:OD1	2.17	0.44
1:C:2020:LEU:O	1:C:2024:GLN:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1593:TYR:CE1	1:D:1787:ARG:HD2	2.53	0.44
1:E:775:GLU:HG2	1:E:801:ILE:HG21	1.99	0.44
1:A:195:ARG:HD3	1:A:930:LEU:HD21	1.99	0.44
1:A:1823:LYS:HA	1:A:1823:LYS:HD2	1.76	0.44
1:A:2205:PHE:CE2	1:B:2017:MET:HB2	2.53	0.44
1:B:1865:ILE:HD13	1:B:1865:ILE:HA	1.84	0.44
1:D:2020:LEU:O	1:D:2024:GLN:HG3	2.18	0.44
1:E:195:ARG:HD3	1:E:930:LEU:HD21	1.99	0.44
1:E:339:ASP:OD2	1:E:342:GLN:HA	2.18	0.44
1:E:549:ASP:OD2	1:E:549:ASP:N	2.50	0.44
1:E:845:GLN:HG3	1:E:854:GLN:CD	2.38	0.44
1:A:690:ASN:OD1	1:A:690:ASN:N	2.51	0.43
1:A:2249:THR:O	1:A:2251:ASP:N	2.48	0.43
1:B:657:GLN:O	1:B:661:LEU:HG	2.18	0.43
1:B:807:GLN:O	1:B:811:VAL:HG23	2.18	0.43
1:B:1081:GLY:O	1:B:1103:HIS:HB2	2.18	0.43
1:B:1239:ASN:OD1	1:B:1239:ASN:N	2.51	0.43
1:B:1249:HIS:HB3	1:B:1543:GLN:NE2	2.33	0.43
1:B:1871:GLU:OE1	1:B:1871:GLU:N	2.41	0.43
1:C:339:ASP:OD2	1:C:343:ALA:N	2.47	0.43
1:C:807:GLN:O	1:C:811:VAL:HG23	2.18	0.43
1:C:1032:MET:HE1	1:C:1748:TYR:HB3	2.00	0.43
1:D:142:ARG:HD3	1:D:945:ASN:O	2.18	0.43
1:D:284:ASN:O	1:D:928:ARG:NH2	2.51	0.43
1:D:1081:GLY:O	1:D:1103:HIS:HB2	2.18	0.43
1:D:1249:HIS:HB3	1:D:1543:GLN:NE2	2.33	0.43
1:D:1607:LEU:HB2	1:D:1652:VAL:HG13	1.99	0.43
1:D:1749:THR:HB	1:D:1750:PRO:HD3	1.99	0.43
1:E:573:LEU:HD12	1:E:573:LEU:HA	1.78	0.43
1:E:876:THR:O	1:E:880:THR:HG22	2.18	0.43
1:E:1885:LYS:O	1:E:1889:ASP:HB2	2.17	0.43
1:A:130:LEU:HD13	1:A:975:THR:HG21	2.00	0.43
1:A:133:LYS:HB3	1:A:133:LYS:HE2	1.71	0.43
1:A:1081:GLY:O	1:A:1103:HIS:HB2	2.18	0.43
1:A:2030:LEU:HA	1:A:2030:LEU:HD23	1.71	0.43
1:A:2040:LEU:HD11	1:A:2186:GLU:HG2	2.00	0.43
1:A:2082:LEU:HD21	1:B:1037:GLU:OE2	2.18	0.43
1:A:2396:LEU:HD11	1:A:2430:ILE:HG12	1.99	0.43
1:B:1593:TYR:CE1	1:B:1787:ARG:HD2	2.53	0.43
1:B:1613:ASP:N	1:B:1617:HIS:HD2	2.07	0.43
1:D:1150:GLN:NE2	1:D:1152:GLN:HE21	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1646:VAL:HG11	1:D:1900:LEU:HD21	2.00	0.43
1:D:1680:ASN:HD21	1:D:1690:GLN:HG3	1.82	0.43
1:D:2382:TYR:CD1	1:E:2461:ILE:HG21	2.52	0.43
1:E:1236:LYS:HB2	1:E:1236:LYS:HE3	1.70	0.43
1:E:2161:LYS:HE2	1:E:2161:LYS:HB3	1.75	0.43
1:A:876:THR:O	1:A:880:THR:HG22	2.18	0.43
1:A:918:ARG:HH12	1:A:922:ALA:HB2	1.84	0.43
1:A:1249:HIS:HB3	1:A:1543:GLN:CD	2.39	0.43
1:A:1646:VAL:HG11	1:A:1900:LEU:HD21	2.00	0.43
1:B:284:ASN:O	1:B:928:ARG:NH2	2.51	0.43
1:B:456:LEU:HD12	1:B:456:LEU:HA	1.78	0.43
1:B:1941:ILE:HG23	1:B:1942:ASP:OD1	2.17	0.43
1:C:494:LYS:HB2	1:C:494:LYS:HE3	1.69	0.43
1:C:657:GLN:O	1:C:661:LEU:HG	2.18	0.43
1:C:845:GLN:HG3	1:C:854:GLN:CD	2.38	0.43
1:C:1646:VAL:HG11	1:C:1900:LEU:HD21	2.00	0.43
1:C:1680:ASN:HD21	1:C:1690:GLN:HG3	1.82	0.43
1:D:243:LYS:HD2	1:D:243:LYS:HA	1.63	0.43
1:D:288:LEU:HA	1:D:288:LEU:HD23	1.80	0.43
1:D:657:GLN:O	1:D:661:LEU:HG	2.18	0.43
1:D:1489:ARG:O	1:D:1489:ARG:NH1	2.34	0.43
1:E:1249:HIS:HB3	1:E:1543:GLN:CD	2.39	0.43
1:A:365:THR:HA	1:A:418:ARG:HH12	1.83	0.43
1:A:1030:GLY:O	1:A:1034:THR:HG23	2.19	0.43
1:A:1120:LYS:HE2	1:A:1120:LYS:HB2	1.78	0.43
1:A:1885:LYS:O	1:A:1889:ASP:HB2	2.18	0.43
1:A:1983:ARG:NH1	1:A:2419:PHE:O	2.48	0.43
1:B:906:GLN:NE2	1:C:1950:VAL:HG13	2.34	0.43
1:B:918:ARG:HH12	1:B:922:ALA:HB2	1.84	0.43
1:B:1607:LEU:HD11	1:B:1679:LEU:HD23	1.99	0.43
1:B:2036:GLN:HG2	1:B:2189:ARG:HA	2.00	0.43
1:B:2396:LEU:HD11	1:B:2430:ILE:HG12	1.99	0.43
1:C:2318:ALA:HA	1:C:2455:LEU:HD22	2.00	0.43
1:C:2396:LEU:HD11	1:C:2430:ILE:HG12	1.99	0.43
1:D:1509:ILE:HA	1:D:1510:ASN:HA	1.62	0.43
1:E:690:ASN:OD1	1:E:690:ASN:N	2.52	0.43
1:E:918:ARG:HH12	1:E:922:ALA:HB2	1.84	0.43
1:E:1120:LYS:HE2	1:E:1120:LYS:HB2	1.78	0.43
1:E:1646:VAL:HG11	1:E:1900:LEU:HD21	2.00	0.43
1:A:298:ALA:HA	1:A:301:ILE:HG22	2.01	0.43
1:A:657:GLN:O	1:A:661:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2137:THR:HG23	1:B:2082:LEU:HD22	1.99	0.43
1:B:243:LYS:HA	1:B:243:LYS:HD2	1.63	0.43
1:C:298:ALA:HA	1:C:301:ILE:HG22	2.01	0.43
1:C:307:THR:HA	1:C:308:PRO:HA	1.83	0.43
1:C:1593:TYR:CE1	1:C:1787:ARG:HD2	2.53	0.43
1:C:1607:LEU:HD11	1:C:1679:LEU:HD23	1.99	0.43
1:C:1630:ASP:OD2	1:C:1632:THR:OG1	2.15	0.43
1:D:298:ALA:HA	1:D:301:ILE:HG22	2.01	0.43
1:D:712:GLU:HA	1:D:715:GLU:OE2	2.19	0.43
1:D:2036:GLN:HG2	1:D:2189:ARG:HA	2.00	0.43
1:D:2318:ALA:HA	1:D:2455:LEU:HD22	1.99	0.43
1:E:365:THR:HA	1:E:418:ARG:HH12	1.83	0.43
1:E:1030:GLY:O	1:E:1034:THR:HG23	2.19	0.43
1:E:1593:TYR:CE1	1:E:1787:ARG:HD2	2.53	0.43
1:A:1150:GLN:NE2	1:A:1152:GLN:HE21	2.15	0.43
1:A:1749:THR:O	1:A:1753:VAL:HG23	2.19	0.43
1:A:2027:GLU:HG3	1:E:2198:GLN:NE2	2.33	0.43
1:B:876:THR:O	1:B:880:THR:HG22	2.18	0.43
1:B:1032:MET:HE1	1:B:1748:TYR:HB3	2.01	0.43
1:B:1749:THR:O	1:B:1753:VAL:HG23	2.19	0.43
1:B:1887:PHE:CZ	1:B:1891:ILE:HD11	2.54	0.43
1:C:142:ARG:HD3	1:C:945:ASN:O	2.18	0.43
1:C:876:THR:O	1:C:880:THR:HG22	2.18	0.43
1:C:918:ARG:HH12	1:C:922:ALA:HB2	1.84	0.43
1:C:2040:LEU:HD11	1:C:2186:GLU:HG2	2.00	0.43
1:C:2412:ASP:OD2	1:C:2414:LEU:HD13	2.19	0.43
1:D:876:THR:O	1:D:880:THR:HG22	2.18	0.43
1:D:918:ARG:HH12	1:D:922:ALA:HB2	1.84	0.43
1:D:1184:ILE:HD13	1:D:1184:ILE:HA	1.75	0.43
1:E:298:ALA:HA	1:E:301:ILE:HG22	2.01	0.43
1:E:1749:THR:O	1:E:1753:VAL:HG23	2.19	0.43
1:E:2036:GLN:HG2	1:E:2189:ARG:HA	2.00	0.43
1:A:194:ARG:HG2	1:A:247:ILE:HD11	2.01	0.43
1:A:217:PHE:HZ	1:A:222:ASN:ND2	2.17	0.43
1:A:2036:GLN:HG2	1:A:2189:ARG:HA	2.00	0.43
1:A:2156:GLU:OE1	1:A:2156:GLU:HA	2.19	0.43
1:A:2355:LYS:HE2	1:A:2355:LYS:HB2	1.81	0.43
1:B:448:LEU:HD23	1:B:448:LEU:HA	1.84	0.43
1:B:690:ASN:OD1	1:B:690:ASN:N	2.52	0.43
1:C:335:LYS:NZ	1:C:346:ILE:O	2.51	0.43
1:C:1249:HIS:HB3	1:C:1543:GLN:CD	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2140:THR:HG23	1:E:2082:LEU:HD13	2.01	0.43
1:D:2156:GLU:OE1	1:D:2156:GLU:HA	2.19	0.43
1:E:680:LEU:HD23	1:E:680:LEU:HA	1.88	0.43
1:E:2020:LEU:O	1:E:2024:GLN:HG3	2.18	0.43
1:E:2318:ALA:HA	1:E:2455:LEU:HD22	2.00	0.43
1:E:2388:ILE:HD13	1:E:2388:ILE:HA	1.89	0.43
1:A:874:ASP:OD2	1:A:898:LEU:HD11	2.19	0.43
1:A:1258:ARG:HA	1:A:1547:SER:HA	1.99	0.43
1:B:142:ARG:HD3	1:B:945:ASN:O	2.18	0.43
1:B:378:LYS:HZ2	1:B:430:TYR:HE2	1.64	0.43
1:B:874:ASP:OD2	1:B:898:LEU:HD11	2.19	0.43
1:C:1249:HIS:HB3	1:C:1543:GLN:NE2	2.33	0.43
1:C:2036:GLN:HG2	1:C:2189:ARG:HA	2.00	0.43
1:D:1054:ARG:HD2	1:D:1054:ARG:HA	1.69	0.43
1:D:2040:LEU:HD11	1:D:2186:GLU:HG2	2.00	0.43
1:E:657:GLN:O	1:E:661:LEU:HG	2.18	0.43
1:E:712:GLU:HA	1:E:715:GLU:OE2	2.19	0.43
1:E:874:ASP:OD2	1:E:898:LEU:HD11	2.19	0.43
1:A:142:ARG:HD3	1:A:945:ASN:O	2.18	0.43
1:A:312:ASN:OD1	1:A:312:ASN:N	2.50	0.43
1:A:712:GLU:HA	1:A:715:GLU:OE2	2.19	0.43
1:A:2388:ILE:HD13	1:A:2388:ILE:HA	1.89	0.43
1:B:130:LEU:HD13	1:B:975:THR:HG21	2.00	0.43
1:B:712:GLU:HA	1:B:715:GLU:OE2	2.18	0.43
1:B:836:ILE:O	1:B:840:LEU:HD23	2.19	0.43
1:B:1078:ILE:HG12	1:B:1544:LYS:HD3	2.01	0.43
1:B:2020:LEU:O	1:B:2024:GLN:HG3	2.18	0.43
1:B:2412:ASP:OD2	1:B:2414:LEU:HD13	2.19	0.43
1:C:762:ARG:HA	1:C:762:ARG:HD3	1.73	0.43
1:C:1821:LEU:HD23	1:C:1821:LEU:HA	1.88	0.43
1:C:1823:LYS:HD2	1:C:1823:LYS:HA	1.76	0.43
1:D:165:LEU:HD12	1:D:165:LEU:HA	1.72	0.43
1:D:807:GLN:O	1:D:811:VAL:HG23	2.18	0.43
1:E:217:PHE:HZ	1:E:222:ASN:ND2	2.17	0.43
1:E:572:LEU:O	1:E:576:THR:OG1	2.32	0.43
1:E:1887:PHE:CZ	1:E:1891:ILE:HD11	2.54	0.43
1:A:284:ASN:O	1:A:928:ARG:NH2	2.51	0.43
1:C:1594:LEU:HD23	1:C:1594:LEU:HA	1.84	0.43
1:E:836:ILE:O	1:E:840:LEU:HD23	2.19	0.43
1:E:1607:LEU:HD11	1:E:1679:LEU:HD23	1.99	0.43
1:E:1624:THR:HG22	1:E:1641:SER:OG	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2305:VAL:O	1:E:2308:THR:OG1	2.31	0.43
1:A:304:ARG:HH12	1:A:310:VAL:CG1	2.32	0.42
1:A:807:GLN:O	1:A:811:VAL:HG23	2.18	0.42
1:A:1625:ILE:HD11	1:A:1654:LEU:HD11	2.01	0.42
1:A:2296:VAL:HG11	1:A:2358:TYR:CE2	2.54	0.42
1:B:194:ARG:HG2	1:B:247:ILE:HD11	2.00	0.42
1:B:1170:VAL:HG13	1:B:1176:TRP:CZ2	2.54	0.42
1:B:1249:HIS:HB3	1:B:1543:GLN:CD	2.39	0.42
1:B:1311:ASN:HA	1:B:1315:TYR:OH	2.19	0.42
1:B:1625:ILE:HD11	1:B:1654:LEU:HD11	2.01	0.42
1:C:684:GLY:H	1:E:2258:LYS:HD3	1.83	0.42
1:C:712:GLU:HA	1:C:715:GLU:OE2	2.18	0.42
1:C:840:LEU:HD22	1:C:858:LEU:HD11	2.01	0.42
1:C:1078:ILE:HG12	1:C:1544:LYS:HD3	2.01	0.42
1:D:365:THR:HA	1:D:418:ARG:HH12	1.83	0.42
1:D:690:ASN:N	1:D:690:ASN:OD1	2.51	0.42
1:E:194:ARG:HG2	1:E:247:ILE:HD11	2.01	0.42
1:E:304:ARG:HH12	1:E:310:VAL:CG1	2.32	0.42
1:E:1610:LYS:O	1:E:1644:LEU:HD21	2.19	0.42
1:E:1710:ASN:OD1	1:E:1711:ASN:N	2.52	0.42
1:E:2040:LEU:HD11	1:E:2186:GLU:HG2	2.00	0.42
1:A:840:LEU:HD22	1:A:858:LEU:HD11	2.01	0.42
1:A:1887:PHE:CZ	1:A:1891:ILE:HD11	2.54	0.42
1:A:1961:LEU:CD2	1:E:805:GLY:HA3	2.49	0.42
1:B:165:LEU:HD12	1:B:165:LEU:HA	1.72	0.42
1:B:268:PHE:HZ	1:B:451:ASN:HB2	1.85	0.42
1:B:298:ALA:HA	1:B:301:ILE:HG22	2.01	0.42
1:B:335:LYS:NZ	1:B:346:ILE:O	2.51	0.42
1:B:632:LYS:O	1:B:635:GLN:HG3	2.19	0.42
1:B:1030:GLY:O	1:B:1034:THR:HG23	2.19	0.42
1:B:2040:LEU:HD11	1:B:2186:GLU:HG2	2.00	0.42
1:B:2249:THR:O	1:B:2251:ASP:N	2.48	0.42
1:B:2296:VAL:HG11	1:B:2358:TYR:CE2	2.54	0.42
1:C:57:GLU:OE2	1:C:1892:SER:OG	2.29	0.42
1:C:294:GLN:HE22	1:D:1865:ILE:HA	1.84	0.42
1:C:1041:GLN:H	1:C:1041:GLN:HG2	1.63	0.42
1:D:762:ARG:HD3	1:D:762:ARG:HA	1.73	0.42
1:D:1249:HIS:HB3	1:D:1543:GLN:CD	2.39	0.42
1:D:1311:ASN:HA	1:D:1315:TYR:OH	2.20	0.42
1:D:1625:ILE:HD11	1:D:1654:LEU:HD11	2.01	0.42
1:D:1710:ASN:OD1	1:D:1711:ASN:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2296:VAL:HG11	1:D:2358:TYR:CE2	2.54	0.42
1:D:2408:GLY:N	1:D:2411:ASP:OD1	2.50	0.42
1:E:130:LEU:HD13	1:E:975:THR:HG21	2.00	0.42
1:E:142:ARG:HD3	1:E:945:ASN:O	2.18	0.42
1:E:339:ASP:OD2	1:E:343:ALA:N	2.47	0.42
1:A:829:LEU:HD23	1:A:829:LEU:HA	1.87	0.42
1:A:1534:LEU:HG	1:A:1536:ILE:HG13	2.02	0.42
1:A:2412:ASP:OD2	1:A:2414:LEU:HD13	2.19	0.42
1:B:2082:LEU:HD23	1:B:2082:LEU:HA	1.65	0.42
1:B:2102:ALA:HB2	1:D:1093:PRO:HG3	2.01	0.42
1:B:2388:ILE:HG13	1:C:2362:LEU:HD11	2.00	0.42
1:C:690:ASN:OD1	1:C:690:ASN:N	2.51	0.42
1:C:836:ILE:O	1:C:840:LEU:HD23	2.19	0.42
1:C:874:ASP:OD2	1:C:898:LEU:HD11	2.19	0.42
1:D:359:ASN:OD1	1:D:398:SER:OG	2.19	0.42
1:D:1001:LYS:CG	1:E:1849:MET:HE1	2.38	0.42
1:D:1317:LEU:HD23	1:D:1317:LEU:HA	1.87	0.42
1:E:840:LEU:HD22	1:E:858:LEU:HD11	2.01	0.42
1:E:2296:VAL:HG11	1:E:2358:TYR:CE2	2.54	0.42
1:A:836:ILE:O	1:A:840:LEU:HD23	2.19	0.42
1:A:923:LEU:HD23	1:A:923:LEU:HA	1.79	0.42
1:A:1593:TYR:CE1	1:A:1787:ARG:HD2	2.53	0.42
1:A:1624:THR:HG22	1:A:1641:SER:OG	2.20	0.42
1:A:1710:ASN:OD1	1:A:1711:ASN:N	2.52	0.42
1:A:2374:THR:O	1:A:2375:LEU:HD23	2.20	0.42
1:B:217:PHE:HZ	1:B:222:ASN:ND2	2.17	0.42
1:B:304:ARG:HH12	1:B:310:VAL:CG1	2.32	0.42
1:B:404:ASP:N	1:B:404:ASP:OD1	2.50	0.42
1:B:484:ARG:HE	1:B:484:ARG:HB2	1.64	0.42
1:B:941:ASP:OD1	1:B:944:ARG:NH1	2.53	0.42
1:B:1625:ILE:HG12	1:B:1640:TYR:HB3	2.01	0.42
1:C:130:LEU:HD13	1:C:975:THR:HG21	2.00	0.42
1:C:268:PHE:HZ	1:C:451:ASN:HB2	1.84	0.42
1:C:685:GLY:H	1:D:2229:ARG:NH2	2.16	0.42
1:C:1625:ILE:HD11	1:C:1654:LEU:HD11	2.01	0.42
1:C:1749:THR:O	1:C:1753:VAL:HG23	2.19	0.42
1:C:1887:PHE:CZ	1:C:1891:ILE:HD11	2.54	0.42
1:C:2229:ARG:HD2	1:D:2277:LEU:HD21	2.00	0.42
1:D:217:PHE:HZ	1:D:222:ASN:ND2	2.17	0.42
1:D:367:LYS:HZ3	1:D:428:ASN:HB2	1.85	0.42
1:D:836:ILE:O	1:D:840:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1516:ILE:HG22	1:D:1517:LYS:NZ	2.35	0.42
1:D:1749:THR:O	1:D:1753:VAL:HG23	2.19	0.42
1:D:2412:ASP:OD2	1:D:2414:LEU:HD13	2.19	0.42
1:E:1263:LEU:HD23	1:E:1263:LEU:HA	1.81	0.42
1:E:1534:LEU:HG	1:E:1536:ILE:HG13	2.02	0.42
1:E:1777:ALA:HB3	1:E:1781:ALA:O	2.20	0.42
1:A:268:PHE:HZ	1:A:451:ASN:HB2	1.85	0.42
1:A:288:LEU:HD23	1:A:288:LEU:HA	1.80	0.42
1:A:1170:VAL:HG13	1:A:1176:TRP:CZ2	2.54	0.42
1:A:1961:LEU:HD21	1:E:805:GLY:HA3	2.01	0.42
1:B:1297:ASN:OD1	1:B:1297:ASN:N	2.53	0.42
1:B:2117:SER:O	1:C:2108:ASN:ND2	2.32	0.42
1:C:194:ARG:HG2	1:C:247:ILE:HD11	2.01	0.42
1:C:217:PHE:HZ	1:C:222:ASN:ND2	2.17	0.42
1:C:632:LYS:O	1:C:635:GLN:HG3	2.19	0.42
1:C:1170:VAL:HG13	1:C:1176:TRP:CZ2	2.54	0.42
1:C:1239:ASN:OD1	1:C:1239:ASN:N	2.51	0.42
1:C:1610:LYS:O	1:C:1644:LEU:HD21	2.19	0.42
1:C:2296:VAL:HG11	1:C:2358:TYR:CE2	2.54	0.42
1:D:304:ARG:HH12	1:D:310:VAL:CG1	2.32	0.42
1:D:555:ARG:HG3	1:D:569:LEU:HD23	2.02	0.42
1:D:1610:LYS:O	1:D:1644:LEU:HD21	2.19	0.42
1:D:1624:THR:HG22	1:D:1641:SER:OG	2.19	0.42
1:D:2243:LYS:HD2	1:D:2243:LYS:HA	1.80	0.42
1:D:2296:VAL:HG11	1:D:2358:TYR:HE2	1.84	0.42
1:E:632:LYS:O	1:E:635:GLN:HG3	2.19	0.42
1:E:1625:ILE:HG12	1:E:1640:TYR:HB3	2.01	0.42
1:E:1625:ILE:HD11	1:E:1654:LEU:HD11	2.01	0.42
1:E:2374:THR:O	1:E:2375:LEU:HD23	2.20	0.42
1:A:632:LYS:O	1:A:635:GLN:HG3	2.19	0.42
1:A:1078:ILE:HG12	1:A:1544:LYS:HD3	2.01	0.42
1:A:2176:GLU:OE1	1:B:2048:LYS:NZ	2.43	0.42
1:B:365:THR:HA	1:B:418:ARG:HH12	1.83	0.42
1:B:1534:LEU:HG	1:B:1536:ILE:HG13	2.02	0.42
1:B:2067:LEU:HA	1:B:2067:LEU:HD23	1.74	0.42
1:C:359:ASN:OD1	1:C:398:SER:OG	2.19	0.42
1:C:1030:GLY:O	1:C:1034:THR:HG23	2.19	0.42
1:C:1534:LEU:HG	1:C:1536:ILE:HG13	2.02	0.42
1:D:413:LYS:HA	1:D:434:THR:HA	2.02	0.42
1:E:165:LEU:HD23	1:E:963:ASP:OD1	2.20	0.42
1:E:2412:ASP:OD2	1:E:2414:LEU:HD13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:456:LEU:HD12	1:A:456:LEU:HA	1.78	0.42
1:A:941:ASP:OD1	1:A:944:ARG:NH1	2.53	0.42
1:A:1502:THR:HA	1:A:1503:ILE:HA	1.71	0.42
1:B:1610:LYS:O	1:B:1644:LEU:HD21	2.19	0.42
1:B:1710:ASN:OD1	1:B:1711:ASN:N	2.52	0.42
1:B:2329:ILE:H	1:B:2329:ILE:HG13	1.71	0.42
1:B:2374:THR:O	1:B:2375:LEU:HD23	2.20	0.42
1:C:972:ILE:HA	1:C:975:THR:HG22	2.02	0.42
1:C:2141:ALA:HB2	1:D:2082:LEU:HB3	2.02	0.42
1:C:2355:LYS:HE2	1:C:2355:LYS:HB2	1.81	0.42
1:D:533:ASN:HD21	1:E:893:SER:CA	2.32	0.42
1:D:874:ASP:OD2	1:D:898:LEU:HD11	2.19	0.42
1:E:215:ARG:NH2	1:E:902:GLY:O	2.47	0.42
1:E:1763:PHE:HE2	1:E:1834:LYS:HD3	1.85	0.42
1:E:2156:GLU:OE1	1:E:2156:GLU:HA	2.19	0.42
1:E:2383:GLN:NE2	1:E:2453:LEU:HD11	2.35	0.42
1:A:79:GLU:HG2	1:A:1781:ALA:HB1	2.02	0.42
1:A:299:ALA:HB1	1:A:305:LEU:HD13	2.02	0.42
1:A:367:LYS:HZ3	1:A:428:ASN:HB2	1.85	0.42
1:A:686:ILE:O	1:A:688:LYS:HD2	2.20	0.42
1:A:1841:ARG:HD2	1:E:958:THR:HA	2.02	0.42
1:B:699:ALA:N	1:B:700:PRO:HD2	2.35	0.42
1:B:1516:ILE:HG22	1:B:1517:LYS:NZ	2.35	0.42
1:B:1983:ARG:NH1	1:B:2419:PHE:O	2.48	0.42
1:B:2238:CYS:HB3	1:B:2257:ILE:HD12	2.01	0.42
1:C:79:GLU:HG2	1:C:1781:ALA:HB1	2.02	0.42
1:C:304:ARG:HH12	1:C:310:VAL:CG1	2.32	0.42
1:C:322:ILE:HG12	1:D:1867:SER:HB2	2.01	0.42
1:C:365:THR:HA	1:C:418:ARG:HH12	1.83	0.42
1:C:2156:GLU:OE1	1:C:2156:GLU:HA	2.19	0.42
1:C:2296:VAL:HG11	1:C:2358:TYR:HE2	1.84	0.42
1:D:268:PHE:HZ	1:D:451:ASN:HB2	1.84	0.42
1:D:371:HIS:HA	1:D:387:ASN:O	2.20	0.42
1:D:699:ALA:N	1:D:700:PRO:HD2	2.35	0.42
1:D:1030:GLY:O	1:D:1034:THR:HG23	2.19	0.42
1:D:1032:MET:HE1	1:D:1748:TYR:HB3	2.02	0.42
1:D:1297:ASN:N	1:D:1297:ASN:OD1	2.53	0.42
1:D:1921:LEU:HD23	1:D:1921:LEU:HA	1.85	0.42
1:D:2105:MET:O	1:D:2117:SER:OG	2.27	0.42
1:E:413:LYS:HA	1:E:434:THR:HA	2.02	0.42
1:E:807:GLN:O	1:E:811:VAL:HG23	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1054:ARG:HA	1:E:1054:ARG:HD2	1.69	0.42
1:E:1311:ASN:HA	1:E:1315:TYR:OH	2.20	0.42
1:E:1502:THR:HA	1:E:1503:ILE:HA	1.71	0.42
1:E:1516:ILE:HG22	1:E:1517:LYS:NZ	2.35	0.42
1:A:1612:TYR:CE1	1:A:1617:HIS:HB2	2.55	0.42
1:B:367:LYS:HZ3	1:B:428:ASN:HB2	1.85	0.42
1:B:1502:THR:HA	1:B:1503:ILE:HA	1.71	0.42
1:C:165:LEU:HD23	1:C:963:ASP:OD1	2.20	0.42
1:C:1120:LYS:HE2	1:C:1120:LYS:HB2	1.78	0.42
1:D:299:ALA:HB1	1:D:305:LEU:HD13	2.02	0.42
1:D:324:THR:O	1:D:324:THR:OG1	2.25	0.42
1:D:1236:LYS:HE3	1:D:1236:LYS:HB2	1.70	0.42
1:D:1534:LEU:HG	1:D:1536:ILE:HG13	2.02	0.42
1:D:1763:PHE:HE2	1:D:1834:LYS:HD3	1.85	0.42
1:D:1865:ILE:HA	1:D:1865:ILE:HD13	1.84	0.42
1:D:2238:CYS:HB3	1:D:2257:ILE:HD12	2.01	0.42
1:D:2374:THR:O	1:D:2375:LEU:HD23	2.20	0.42
1:D:2383:GLN:NE2	1:D:2453:LEU:HD11	2.35	0.42
1:E:21:VAL:N	1:E:1889:ASP:OD2	2.53	0.42
1:E:79:GLU:HG2	1:E:1781:ALA:HB1	2.02	0.42
1:E:371:HIS:HA	1:E:387:ASN:O	2.20	0.42
1:E:686:ILE:O	1:E:688:LYS:HD2	2.20	0.42
1:E:699:ALA:N	1:E:700:PRO:HD2	2.35	0.42
1:A:972:ILE:HA	1:A:975:THR:HG22	2.02	0.42
1:A:1050:GLU:O	1:A:1054:ARG:HG2	2.20	0.42
1:A:1317:LEU:HD23	1:A:1317:LEU:HA	1.87	0.42
1:B:703:THR:O	1:B:707:GLN:N	2.53	0.42
1:B:710:ILE:O	1:B:713:SER:OG	2.30	0.42
1:B:1624:THR:HG22	1:B:1641:SER:OG	2.20	0.42
1:B:1823:LYS:HD2	1:B:1823:LYS:HA	1.76	0.42
1:B:2156:GLU:OE1	1:B:2156:GLU:HA	2.19	0.42
1:C:413:LYS:HA	1:C:434:THR:HA	2.02	0.42
1:C:1078:ILE:HD13	1:C:1544:LYS:HG2	2.02	0.42
1:C:1297:ASN:OD1	1:C:1297:ASN:N	2.53	0.42
1:C:1994:LEU:HD23	1:C:1994:LEU:HA	1.76	0.42
1:C:2238:CYS:HB3	1:C:2257:ILE:HD12	2.01	0.42
1:D:941:ASP:OD1	1:D:944:ARG:NH1	2.53	0.42
1:E:51:HIS:CE1	1:E:55:GLN:HE21	2.38	0.42
1:E:165:LEU:HD12	1:E:165:LEU:HA	1.72	0.42
1:E:299:ALA:HB1	1:E:305:LEU:HD13	2.02	0.42
1:E:1297:ASN:N	1:E:1297:ASN:OD1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1948:LEU:HD13	1:E:1948:LEU:HA	1.90	0.42
1:A:165:LEU:HD23	1:A:963:ASP:OD1	2.20	0.41
1:A:555:ARG:HG3	1:A:569:LEU:HD23	2.01	0.41
1:A:699:ALA:N	1:A:700:PRO:HD2	2.35	0.41
1:A:2238:CYS:HB3	1:A:2257:ILE:HD12	2.01	0.41
1:A:2270:MET:HE2	1:E:2222:ARG:HD3	2.01	0.41
1:A:2389:PHE:HB3	1:A:2403:ILE:CG2	2.49	0.41
1:B:29:MET:HE2	1:B:34:ILE:HG12	2.02	0.41
1:B:471:LEU:HD22	1:B:482:GLU:HG2	2.02	0.41
1:B:904:ASN:HB3	1:B:907:GLN:HB2	2.02	0.41
1:B:1078:ILE:HD13	1:B:1544:LYS:HG2	2.02	0.41
1:B:1502:THR:HB	1:B:1503:ILE:HB	2.02	0.41
1:B:2119:TRP:NE1	1:C:2108:ASN:HB3	2.35	0.41
1:B:2279:LEU:HD23	1:B:2279:LEU:HA	1.86	0.41
1:C:299:ALA:HB1	1:C:305:LEU:HD13	2.02	0.41
1:C:2374:THR:O	1:C:2375:LEU:HD23	2.20	0.41
1:D:79:GLU:HG2	1:D:1781:ALA:HB1	2.02	0.41
1:D:130:LEU:HD13	1:D:975:THR:HG21	2.00	0.41
1:D:464:PRO:HA	1:D:467:THR:HG22	2.02	0.41
1:D:1887:PHE:CZ	1:D:1891:ILE:HD11	2.54	0.41
1:E:703:THR:O	1:E:707:GLN:N	2.53	0.41
1:E:2375:LEU:HD22	1:E:2460:ILE:HG12	2.02	0.41
1:A:849:LEU:HA	1:A:854:GLN:OE1	2.21	0.41
1:A:1184:ILE:HD12	1:A:1212:TRP:CH2	2.55	0.41
1:A:1625:ILE:HG12	1:A:1640:TYR:HB3	2.01	0.41
1:A:1678:TYR:HA	1:A:1691:ILE:O	2.20	0.41
1:B:150:VAL:O	1:B:155:ASN:ND2	2.50	0.41
1:B:2114:VAL:HG12	1:D:1153:LYS:HD3	2.02	0.41
1:C:471:LEU:HD22	1:C:482:GLU:HG2	2.02	0.41
1:C:699:ALA:N	1:C:700:PRO:HD2	2.35	0.41
1:C:1184:ILE:HD12	1:C:1212:TRP:CH2	2.55	0.41
1:C:1316:LYS:H	1:C:1317:LEU:HA	1.85	0.41
1:C:1624:THR:HG22	1:C:1641:SER:OG	2.19	0.41
1:C:1710:ASN:OD1	1:C:1711:ASN:N	2.52	0.41
1:D:307:THR:HA	1:D:308:PRO:HA	1.83	0.41
1:D:632:LYS:O	1:D:635:GLN:HG3	2.19	0.41
1:D:840:LEU:HD22	1:D:858:LEU:HD11	2.01	0.41
1:D:1625:ILE:HG12	1:D:1640:TYR:HB3	2.01	0.41
1:E:941:ASP:OD1	1:E:944:ARG:NH1	2.53	0.41
1:E:2238:CYS:HB3	1:E:2257:ILE:HD12	2.01	0.41
1:A:498:ILE:HD12	1:A:502:THR:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1082:ASN:HB2	1:A:1084:TRP:CZ3	2.55	0.41
1:A:1502:THR:HB	1:A:1503:ILE:HB	2.02	0.41
1:A:2210:PHE:CD2	1:B:2009:ILE:HG21	2.55	0.41
1:B:299:ALA:HB1	1:B:305:LEU:HD13	2.02	0.41
1:B:413:LYS:HA	1:B:434:THR:HA	2.02	0.41
1:B:840:LEU:HD22	1:B:858:LEU:HD11	2.01	0.41
1:B:1082:ASN:HB2	1:B:1084:TRP:CZ3	2.55	0.41
1:C:367:LYS:HZ3	1:C:428:ASN:HB2	1.85	0.41
1:C:555:ARG:HG3	1:C:569:LEU:HD23	2.02	0.41
1:C:1173:ASP:N	1:C:1173:ASP:OD1	2.49	0.41
1:C:1777:ALA:HB3	1:C:1781:ALA:O	2.20	0.41
1:C:2383:GLN:NE2	1:C:2453:LEU:HD11	2.35	0.41
1:D:194:ARG:HG2	1:D:247:ILE:HD11	2.01	0.41
1:D:972:ILE:HA	1:D:975:THR:HG22	2.02	0.41
1:D:1078:ILE:HG12	1:D:1544:LYS:HD3	2.01	0.41
1:E:268:PHE:HZ	1:E:451:ASN:HB2	1.84	0.41
1:E:359:ASN:OD1	1:E:398:SER:OG	2.19	0.41
1:E:849:LEU:HA	1:E:854:GLN:OE1	2.21	0.41
1:E:1612:TYR:CE1	1:E:1617:HIS:HB2	2.55	0.41
1:A:21:VAL:N	1:A:1889:ASP:OD2	2.53	0.41
1:A:829:LEU:O	1:A:831:LEU:HD12	2.21	0.41
1:A:1078:ILE:HD13	1:A:1544:LYS:HG2	2.02	0.41
1:A:1269:PHE:CE2	1:A:1291:TYR:HB2	2.56	0.41
1:A:2383:GLN:NE2	1:A:2453:LEU:HD11	2.35	0.41
1:B:51:HIS:CE1	1:B:55:GLN:HE21	2.38	0.41
1:B:79:GLU:HG2	1:B:1781:ALA:HB1	2.02	0.41
1:B:829:LEU:O	1:B:831:LEU:HD12	2.21	0.41
1:B:849:LEU:HA	1:B:854:GLN:OE1	2.21	0.41
1:B:1050:GLU:O	1:B:1054:ARG:HG2	2.20	0.41
1:B:1141:ARG:HB2	1:C:1576:ILE:HD11	2.02	0.41
1:B:1184:ILE:HD12	1:B:1212:TRP:CH2	2.55	0.41
1:B:1316:LYS:H	1:B:1317:LEU:HA	1.85	0.41
1:B:1561:ASP:OD2	1:B:1561:ASP:N	2.54	0.41
1:B:2161:LYS:HB3	1:B:2161:LYS:HE2	1.75	0.41
1:B:2180:VAL:O	1:B:2183:THR:HG22	2.21	0.41
1:B:2296:VAL:HG11	1:B:2358:TYR:HE2	1.84	0.41
1:C:1050:GLU:O	1:C:1054:ARG:HG2	2.20	0.41
1:C:1516:ILE:HG22	1:C:1517:LYS:NZ	2.35	0.41
1:C:1561:ASP:OD2	1:C:1561:ASP:N	2.54	0.41
1:D:1041:GLN:H	1:D:1041:GLN:HG2	1.63	0.41
1:D:1502:THR:HB	1:D:1503:ILE:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1502:THR:HB	1:E:1503:ILE:HB	2.02	0.41
1:E:2249:THR:O	1:E:2251:ASP:N	2.48	0.41
1:A:1610:LYS:O	1:A:1644:LEU:HD21	2.19	0.41
1:A:1763:PHE:HE2	1:A:1834:LYS:HD3	1.85	0.41
1:A:2187:MET:HE1	1:B:2034:ARG:O	2.20	0.41
1:A:2229:ARG:CZ	1:E:685:GLY:H	2.34	0.41
1:B:498:ILE:HD12	1:B:502:THR:HG22	2.03	0.41
1:B:994:LYS:HE2	1:B:994:LYS:HB2	1.87	0.41
1:B:1777:ALA:HB3	1:B:1781:ALA:O	2.20	0.41
1:B:2383:GLN:NE2	1:B:2453:LEU:HD11	2.35	0.41
1:C:829:LEU:O	1:C:831:LEU:HD12	2.21	0.41
1:C:849:LEU:HA	1:C:854:GLN:OE1	2.21	0.41
1:C:1612:TYR:CE1	1:C:1617:HIS:HB2	2.55	0.41
1:D:1453:ILE:HB	1:D:1480:ARG:NH2	2.36	0.41
1:D:2287:LEU:HD23	1:D:2287:LEU:HA	1.86	0.41
1:E:282:LEU:HB3	1:E:293:ILE:HD13	2.02	0.41
1:E:1032:MET:HE1	1:E:1748:TYR:HB3	2.02	0.41
1:E:2037:GLU:O	1:E:2041:THR:HG23	2.21	0.41
1:A:1516:ILE:HG22	1:A:1517:LYS:NZ	2.35	0.41
1:B:21:VAL:N	1:B:1889:ASP:OD2	2.53	0.41
1:B:1713:THR:HG23	1:B:1717:LEU:HG	2.03	0.41
1:B:2389:PHE:HB3	1:B:2403:ILE:CG2	2.49	0.41
1:B:2408:GLY:N	1:B:2411:ASP:OD1	2.50	0.41
1:C:21:VAL:N	1:C:1889:ASP:OD2	2.53	0.41
1:C:941:ASP:OD1	1:C:944:ARG:NH1	2.53	0.41
1:C:1625:ILE:HG12	1:C:1640:TYR:HB3	2.01	0.41
1:C:1921:LEU:HD23	1:C:1921:LEU:HA	1.85	0.41
1:C:2243:LYS:HA	1:C:2243:LYS:HD2	1.80	0.41
1:D:1078:ILE:HD13	1:D:1544:LYS:HG2	2.02	0.41
1:D:2344:HIS:HD2	1:D:2439:THR:HG23	1.84	0.41
1:D:2375:LEU:HD22	1:D:2460:ILE:HG12	2.02	0.41
1:E:464:PRO:HA	1:E:467:THR:HG22	2.03	0.41
1:E:972:ILE:HA	1:E:975:THR:HG22	2.02	0.41
1:E:1561:ASP:OD2	1:E:1561:ASP:N	2.54	0.41
1:E:2296:VAL:HG11	1:E:2358:TYR:HE2	1.84	0.41
1:A:1093:PRO:HG3	1:D:2102:ALA:HB2	2.03	0.41
1:A:1311:ASN:HA	1:A:1315:TYR:OH	2.20	0.41
1:A:2296:VAL:HG11	1:A:2358:TYR:HE2	1.84	0.41
1:B:26:PHE:CE2	1:B:50:LEU:HD21	2.56	0.41
1:B:1001:LYS:HG3	1:C:1849:MET:HE1	2.02	0.41
1:B:2223:LEU:HB2	1:C:2270:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2375:LEU:HD22	1:B:2460:ILE:HG12	2.02	0.41
1:C:26:PHE:CE2	1:C:50:LEU:HD21	2.56	0.41
1:C:685:GLY:HA3	1:D:2229:ARG:NE	2.36	0.41
1:C:1082:ASN:HB2	1:C:1084:TRP:CZ3	2.55	0.41
1:C:1086:ILE:HD13	1:C:1086:ILE:HA	1.89	0.41
1:C:1311:ASN:HA	1:C:1315:TYR:OH	2.19	0.41
1:C:1678:TYR:HA	1:C:1691:ILE:O	2.20	0.41
1:C:2037:GLU:O	1:C:2041:THR:HG23	2.20	0.41
1:C:2180:VAL:O	1:C:2183:THR:HG22	2.21	0.41
1:C:2375:LEU:HD22	1:C:2460:ILE:HG12	2.02	0.41
1:D:21:VAL:N	1:D:1889:ASP:OD2	2.53	0.41
1:D:26:PHE:CE2	1:D:50:LEU:HD21	2.56	0.41
1:D:849:LEU:HA	1:D:854:GLN:OE1	2.21	0.41
1:D:1170:VAL:HG13	1:D:1176:TRP:CZ2	2.54	0.41
1:D:1184:ILE:HD12	1:D:1212:TRP:CH2	2.55	0.41
1:D:1517:LYS:HA	1:D:1533:LYS:HA	2.03	0.41
1:D:1612:TYR:CE1	1:D:1617:HIS:HB2	2.55	0.41
1:D:2008:LEU:HD23	1:D:2008:LEU:HA	1.90	0.41
1:E:411:LYS:HD2	1:E:434:THR:HG21	2.03	0.41
1:E:1078:ILE:HG12	1:E:1544:LYS:HD3	2.01	0.41
1:E:1170:VAL:HG13	1:E:1176:TRP:CZ2	2.54	0.41
1:E:1316:LYS:H	1:E:1317:LEU:HA	1.85	0.41
1:E:2067:LEU:HD23	1:E:2067:LEU:HA	1.74	0.41
1:A:413:LYS:HA	1:A:434:THR:HA	2.02	0.41
1:A:1453:ILE:HB	1:A:1480:ARG:NH2	2.36	0.41
1:A:1777:ALA:HB3	1:A:1781:ALA:O	2.20	0.41
1:A:2175:LEU:HD23	1:A:2175:LEU:HA	1.90	0.41
1:B:371:HIS:HA	1:B:387:ASN:O	2.20	0.41
1:B:373:SER:N	1:B:417:THR:O	2.36	0.41
1:B:1763:PHE:HE2	1:B:1834:LYS:HD3	1.85	0.41
1:B:2037:GLU:O	1:B:2041:THR:HG23	2.21	0.41
1:C:371:HIS:HA	1:C:387:ASN:O	2.20	0.41
1:C:2030:LEU:HA	1:C:2030:LEU:HD23	1.71	0.41
1:D:51:HIS:CE1	1:D:55:GLN:HE21	2.38	0.41
1:D:1502:THR:HA	1:D:1503:ILE:HA	1.71	0.41
1:D:2037:GLU:O	1:D:2041:THR:HG23	2.21	0.41
1:E:471:LEU:HD22	1:E:482:GLU:HG2	2.02	0.41
1:E:1050:GLU:O	1:E:1054:ARG:HG2	2.20	0.41
1:E:1453:ILE:HB	1:E:1480:ARG:NH2	2.36	0.41
1:A:51:HIS:CE1	1:A:55:GLN:HE21	2.38	0.41
1:A:336:THR:HG23	1:A:434:THR:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:367:LYS:HD2	1:A:420:LYS:HZ2	1.86	0.41
1:A:371:HIS:HA	1:A:387:ASN:O	2.20	0.41
1:A:680:LEU:HD23	1:A:680:LEU:HA	1.88	0.41
1:A:1067:LYS:HE2	1:A:1067:LYS:HB2	1.85	0.41
1:A:1316:LYS:H	1:A:1317:LEU:HA	1.85	0.41
1:A:1576:ILE:HD11	1:E:1141:ARG:HB2	2.03	0.41
1:A:1713:THR:HG23	1:A:1717:LEU:HG	2.03	0.41
1:A:2037:GLU:O	1:A:2041:THR:HG23	2.20	0.41
1:A:2209:LYS:HB2	1:B:2013:ASP:OD1	2.21	0.41
1:B:174:LEU:HD23	1:B:174:LEU:HA	1.86	0.41
1:B:555:ARG:HG3	1:B:569:LEU:HD23	2.02	0.41
1:B:686:ILE:O	1:B:688:LYS:HD2	2.20	0.41
1:B:1612:TYR:CE1	1:B:1617:HIS:HB2	2.55	0.41
1:C:165:LEU:HA	1:C:165:LEU:HD12	1.72	0.41
1:C:373:SER:N	1:C:417:THR:O	2.36	0.41
1:C:411:LYS:HD2	1:C:434:THR:HG21	2.03	0.41
1:C:470:ALA:HA	1:C:504:LEU:HD11	2.03	0.41
1:C:1054:ARG:HD2	1:C:1054:ARG:HA	1.69	0.41
1:C:1099:ARG:HH11	1:C:1099:ARG:HD2	1.73	0.41
1:C:1453:ILE:HB	1:C:1480:ARG:NH2	2.36	0.41
1:C:1502:THR:HB	1:C:1503:ILE:HB	2.02	0.41
1:C:2175:LEU:HD23	1:C:2175:LEU:HA	1.90	0.41
1:D:165:LEU:HD23	1:D:963:ASP:OD1	2.20	0.41
1:D:217:PHE:HZ	1:D:222:ASN:HD21	1.69	0.41
1:D:686:ILE:O	1:D:688:LYS:HD2	2.20	0.41
1:D:904:ASN:HB3	1:D:907:GLN:HB2	2.02	0.41
1:D:1171:LYS:HB3	1:E:1058:THR:HG23	2.02	0.41
1:D:1239:ASN:OD1	1:D:1239:ASN:N	2.51	0.41
1:D:1269:PHE:CE2	1:D:1291:TYR:HB2	2.56	0.41
1:D:1316:LYS:H	1:D:1317:LEU:HA	1.85	0.41
1:D:1508:ASP:OD1	1:D:1508:ASP:N	2.54	0.41
1:D:1561:ASP:OD2	1:D:1561:ASP:N	2.54	0.41
1:D:1713:THR:HG23	1:D:1717:LEU:HG	2.03	0.41
1:D:2222:ARG:NH2	1:E:2261:ALA:C	2.74	0.41
1:D:2370:GLN:HG2	1:D:2371:ILE:N	2.36	0.41
1:E:217:PHE:HZ	1:E:222:ASN:HD21	1.69	0.41
1:E:367:LYS:HZ3	1:E:428:ASN:HB2	1.85	0.41
1:E:373:SER:HB3	1:E:382:ASN:OD1	2.21	0.41
1:E:498:ILE:HD12	1:E:502:THR:HG22	2.03	0.41
1:E:1078:ILE:HD13	1:E:1544:LYS:HG2	2.02	0.41
1:E:1082:ASN:HB2	1:E:1084:TRP:CZ3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1184:ILE:HD12	1:E:1212:TRP:CH2	2.55	0.41
1:E:1517:LYS:HA	1:E:1533:LYS:HA	2.03	0.41
1:E:2370:GLN:HG2	1:E:2371:ILE:N	2.36	0.41
1:A:174:LEU:HD23	1:A:174:LEU:HA	1.86	0.41
1:A:471:LEU:HD22	1:A:482:GLU:HG2	2.02	0.41
1:A:904:ASN:HB3	1:A:907:GLN:HB2	2.02	0.41
1:A:1956:ASP:OD2	1:A:1957:PRO:HD2	2.21	0.41
1:A:2180:VAL:O	1:A:2183:THR:HG22	2.21	0.41
1:A:2408:GLY:N	1:A:2411:ASP:OD1	2.50	0.41
1:B:873:LYS:HB3	1:B:873:LYS:HE3	1.88	0.41
1:B:1263:LEU:HD23	1:B:1263:LEU:HA	1.81	0.41
1:B:1678:TYR:HA	1:B:1691:ILE:O	2.21	0.41
1:C:282:LEU:HB3	1:C:293:ILE:HD13	2.02	0.41
1:C:573:LEU:HD12	1:C:573:LEU:HA	1.78	0.41
1:C:1269:PHE:CE2	1:C:1291:TYR:HB2	2.56	0.41
1:C:1502:THR:HA	1:C:1503:ILE:HA	1.71	0.41
1:D:282:LEU:HB3	1:D:293:ILE:HD13	2.02	0.41
1:D:1777:ALA:HB3	1:D:1781:ALA:O	2.20	0.41
1:E:829:LEU:O	1:E:831:LEU:HD12	2.21	0.41
1:E:2287:LEU:HD23	1:E:2287:LEU:HA	1.86	0.41
1:A:315:ASN:HB3	1:A:335:LYS:HG2	2.03	0.40
1:A:373:SER:HB3	1:A:382:ASN:OD1	2.21	0.40
1:A:864:LEU:HD12	1:A:864:LEU:HA	1.84	0.40
1:A:2161:LYS:HE2	1:A:2161:LYS:HB3	1.75	0.40
1:B:165:LEU:HD23	1:B:963:ASP:OD1	2.20	0.40
1:B:336:THR:HG23	1:B:434:THR:HG22	2.04	0.40
1:C:51:HIS:CE1	1:C:55:GLN:HE21	2.38	0.40
1:C:336:THR:HG23	1:C:434:THR:HG22	2.04	0.40
1:C:367:LYS:HD2	1:C:420:LYS:HZ2	1.85	0.40
1:C:464:PRO:HA	1:C:467:THR:HG22	2.03	0.40
1:C:702:ILE:HD13	1:C:702:ILE:HA	1.94	0.40
1:C:904:ASN:HB3	1:C:907:GLN:HB2	2.02	0.40
1:C:1517:LYS:HA	1:C:1533:LYS:HA	2.03	0.40
1:C:1653:LYS:HB3	1:C:1653:LYS:HE3	1.84	0.40
1:C:2275:LEU:HD23	1:C:2275:LEU:HA	1.78	0.40
1:C:2344:HIS:HD2	1:C:2439:THR:HG23	1.84	0.40
1:D:335:LYS:NZ	1:D:346:ILE:O	2.51	0.40
1:D:1269:PHE:N	1:D:1269:PHE:CD1	2.90	0.40
1:D:2300:VAL:HB	1:D:2462:ILE:HG22	2.04	0.40
1:E:555:ARG:HG3	1:E:569:LEU:HD23	2.02	0.40
1:A:335:LYS:NZ	1:A:346:ILE:O	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:674:MET:HB2	1:A:674:MET:HE2	1.92	0.40
1:A:703:THR:O	1:A:707:GLN:N	2.53	0.40
1:A:1041:GLN:H	1:A:1041:GLN:HG2	1.63	0.40
1:A:2123:PRO:HB2	1:B:2100:ALA:HB2	2.03	0.40
1:A:2300:VAL:HB	1:A:2462:ILE:HG22	2.04	0.40
1:A:2449:LYS:O	1:A:2452:PRO:HD2	2.22	0.40
1:B:282:LEU:HB3	1:B:293:ILE:HD13	2.02	0.40
1:B:315:ASN:HB3	1:B:335:LYS:HG2	2.04	0.40
1:B:470:ALA:HA	1:B:504:LEU:HD11	2.03	0.40
1:B:1269:PHE:CE2	1:B:1291:TYR:HB2	2.56	0.40
1:B:1948:LEU:HD13	1:B:1948:LEU:HA	1.90	0.40
1:B:2370:GLN:HG2	1:B:2371:ILE:N	2.36	0.40
1:C:703:THR:O	1:C:707:GLN:N	2.53	0.40
1:C:1110:ARG:HA	1:C:1110:ARG:HD2	1.93	0.40
1:C:1269:PHE:N	1:C:1269:PHE:CD1	2.90	0.40
1:D:829:LEU:O	1:D:831:LEU:HD12	2.21	0.40
1:D:1050:GLU:O	1:D:1054:ARG:HG2	2.20	0.40
1:D:1977:ALA:HB1	1:D:2243:LYS:CG	2.52	0.40
1:D:2180:VAL:HG13	1:E:2038:GLN:OE1	2.21	0.40
1:E:1269:PHE:CE2	1:E:1291:TYR:HB2	2.56	0.40
1:E:2275:LEU:HD23	1:E:2275:LEU:HA	1.78	0.40
1:E:2344:HIS:HD2	1:E:2439:THR:HG23	1.84	0.40
1:E:2389:PHE:HB3	1:E:2403:ILE:CG2	2.49	0.40
1:A:282:LEU:HB3	1:A:293:ILE:HD13	2.02	0.40
1:A:470:ALA:HA	1:A:504:LEU:HD11	2.03	0.40
1:A:494:LYS:HB2	1:A:494:LYS:HE3	1.69	0.40
1:A:1263:LEU:HA	1:A:1263:LEU:HD23	1.81	0.40
1:B:146:LEU:HA	1:B:146:LEU:HD23	1.83	0.40
1:B:208:ILE:HG13	1:B:896:ALA:HB2	2.04	0.40
1:B:2148:GLU:O	1:B:2152:ARG:HG2	2.22	0.40
1:C:256:THR:HG22	1:C:257:GLY:N	2.35	0.40
1:C:994:LYS:HE2	1:C:994:LYS:HB2	1.87	0.40
1:D:1025:ARG:NH2	1:D:1028:GLN:HA	2.37	0.40
1:D:1082:ASN:HB2	1:D:1084:TRP:CZ3	2.55	0.40
1:D:2030:LEU:HD11	1:E:1959:ALA:CB	2.52	0.40
1:E:26:PHE:CE2	1:E:50:LEU:HD21	2.56	0.40
1:E:702:ILE:HD13	1:E:702:ILE:HA	1.94	0.40
1:E:1269:PHE:N	1:E:1269:PHE:CD1	2.90	0.40
1:E:2180:VAL:O	1:E:2183:THR:HG22	2.21	0.40
1:E:2300:VAL:HB	1:E:2462:ILE:HG22	2.03	0.40
1:A:29:MET:HE2	1:A:34:ILE:HG12	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:288:LEU:HD22	1:A:289:PRO:HD2	2.04	0.40
1:A:464:PRO:HA	1:A:467:THR:HG22	2.02	0.40
1:A:1280:LYS:HA	1:A:1280:LYS:HD2	1.82	0.40
1:A:2386:ARG:H	1:A:2386:ARG:HG3	1.75	0.40
1:B:411:LYS:HD2	1:B:434:THR:HG21	2.03	0.40
1:B:566:ASN:HB3	1:C:871:THR:HG21	2.03	0.40
1:C:923:LEU:HD23	1:C:923:LEU:HA	1.79	0.40
1:C:1763:PHE:HE2	1:C:1834:LYS:HD3	1.85	0.40
1:C:1977:ALA:HB1	1:C:2243:LYS:CG	2.52	0.40
1:C:2068:TYR:CE1	1:C:2158:GLU:HB2	2.56	0.40
1:D:134:ASP:N	1:D:134:ASP:OD1	2.54	0.40
1:D:336:THR:HG23	1:D:434:THR:HG22	2.03	0.40
1:D:471:LEU:HD22	1:D:482:GLU:HG2	2.02	0.40
1:D:2148:GLU:O	1:D:2152:ARG:HG2	2.22	0.40
1:D:2237:ARG:NH2	1:E:2283:GLU:CG	2.84	0.40
1:E:315:ASN:HB3	1:E:335:LYS:HG2	2.04	0.40
1:E:335:LYS:NZ	1:E:346:ILE:O	2.51	0.40
1:E:1678:TYR:HA	1:E:1691:ILE:O	2.21	0.40
1:E:2148:GLU:O	1:E:2152:ARG:HG2	2.22	0.40
1:E:2404:ALA:O	1:E:2405:LEU:HG	2.22	0.40
1:A:76:LEU:O	1:A:80:MET:HG2	2.22	0.40
1:A:217:PHE:HZ	1:A:222:ASN:HD21	1.69	0.40
1:A:1297:ASN:OD1	1:A:1297:ASN:N	2.53	0.40
1:A:1679:LEU:O	1:A:1714:PHE:HE1	2.05	0.40
1:A:2404:ALA:O	1:A:2405:LEU:HG	2.22	0.40
1:B:294:GLN:HE22	1:C:1865:ILE:HA	1.86	0.40
1:B:373:SER:HB3	1:B:382:ASN:OD1	2.21	0.40
1:B:972:ILE:HA	1:B:975:THR:HG22	2.02	0.40
1:B:2008:LEU:HD23	1:B:2008:LEU:HA	1.90	0.40
1:B:2403:ILE:HB	1:B:2427:PHE:HE2	1.87	0.40
1:B:2449:LYS:O	1:B:2452:PRO:HD2	2.22	0.40
1:C:373:SER:HB3	1:C:382:ASN:OD1	2.21	0.40
1:C:498:ILE:HD12	1:C:502:THR:HG22	2.03	0.40
1:C:686:ILE:O	1:C:688:LYS:HD2	2.20	0.40
1:D:256:THR:HG22	1:D:257:GLY:N	2.35	0.40
1:D:408:LEU:O	1:D:437:ILE:HG22	2.22	0.40
1:D:411:LYS:HG3	1:D:434:THR:OG1	2.22	0.40
1:D:1271:PHE:CZ	1:D:1534:LEU:HD13	2.57	0.40
1:D:2001:PHE:HE1	1:E:1999:MET:CE	2.35	0.40
1:D:2449:LYS:O	1:D:2452:PRO:HD2	2.22	0.40
1:E:134:ASP:OD1	1:E:134:ASP:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:288:LEU:HD22	1:E:289:PRO:HD2	2.04	0.40
1:E:1271:PHE:CZ	1:E:1534:LEU:HD13	2.57	0.40
1:E:1508:ASP:OD1	1:E:1508:ASP:N	2.54	0.40
1:E:1653:LYS:HB3	1:E:1653:LYS:HE3	1.85	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	2273/2469 (92%)	2101 (92%)	168 (7%)	4 (0%)	47 79
1	B	2273/2469 (92%)	2101 (92%)	168 (7%)	4 (0%)	47 79
1	C	2273/2469 (92%)	2101 (92%)	168 (7%)	4 (0%)	47 79
1	D	2273/2469 (92%)	2100 (92%)	169 (7%)	4 (0%)	47 79
1	E	2273/2469 (92%)	2101 (92%)	168 (7%)	4 (0%)	47 79
All	All	11365/12345 (92%)	10504 (92%)	841 (7%)	20 (0%)	50 79

All (20) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1723	THR
1	A	1724	GLY
1	B	1723	THR
1	B	1724	GLY
1	C	1723	THR
1	C	1724	GLY
1	D	1723	THR
1	D	1724	GLY
1	E	1723	THR
1	E	1724	GLY

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Mol	Chain	Res	Type
1	A	1485	PRO
1	B	1485	PRO
1	C	1485	PRO
1	D	1485	PRO
1	E	1485	PRO
1	A	1709	VAL
1	B	1709	VAL
1	C	1709	VAL
1	D	1709	VAL
1	E	1709	VAL

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	1886/2101 (90%)	1823 (97%)	63 (3%)	38	71
1	B	1886/2101 (90%)	1823 (97%)	63 (3%)	38	71
1	C	1886/2101 (90%)	1823 (97%)	63 (3%)	38	71
1	D	1886/2101 (90%)	1823 (97%)	63 (3%)	38	71
1	E	1886/2101 (90%)	1823 (97%)	63 (3%)	38	71
All	All	9430/10505 (90%)	9115 (97%)	315 (3%)	41	71

All (315) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	49	LEU
1	A	78	LYS
1	A	150	VAL
1	A	201	TYR
1	A	324	THR
1	A	364	LYS
1	A	368	ASP
1	A	398	SER
1	A	442	GLU

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Mol	Chain	Res	Type
1	A	544	ILE
1	A	608	THR
1	A	678	LEU
1	A	679	ASP
1	A	709	ASP
1	A	734	GLU
1	A	787	THR
1	A	834	GLU
1	A	835	VAL
1	A	851	THR
1	A	891	ASP
1	A	906	GLN
1	A	1023	THR
1	A	1126	VAL
1	A	1162	SER
1	A	1181	SER
1	A	1190	SER
1	A	1259	VAL
1	A	1285	VAL
1	A	1451	LYS
1	A	1471	THR
1	A	1490	GLU
1	A	1529	THR
1	A	1533	LYS
1	A	1572	THR
1	A	1591	THR
1	A	1596	GLU
1	A	1652	VAL
1	A	1723	THR
1	A	1735	SER
1	A	1760	GLU
1	A	1902	ASP
1	A	1944	GLN
1	A	1948	LEU
1	A	1962	SER
1	A	1968	SER
1	A	1976	SER
1	A	1982	MET
1	A	2085	SER
1	A	2093	ILE
1	A	2097	ASP
1	A	2131	SER

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Mol	Chain	Res	Type
1	A	2145	SER
1	A	2156	GLU
1	A	2166	SER
1	A	2190	GLU
1	A	2249	THR
1	A	2251	ASP
1	A	2274	SER
1	A	2305	VAL
1	A	2309	ASP
1	A	2317	ILE
1	A	2417	LEU
1	A	2433	ASP
1	B	49	LEU
1	B	78	LYS
1	B	150	VAL
1	B	201	TYR
1	B	324	THR
1	B	364	LYS
1	B	368	ASP
1	B	398	SER
1	B	442	GLU
1	B	544	ILE
1	B	608	THR
1	B	678	LEU
1	B	679	ASP
1	B	709	ASP
1	B	734	GLU
1	B	787	THR
1	B	834	GLU
1	B	835	VAL
1	B	851	THR
1	B	891	ASP
1	B	906	GLN
1	B	1023	THR
1	B	1126	VAL
1	B	1162	SER
1	B	1181	SER
1	B	1190	SER
1	B	1259	VAL
1	B	1285	VAL
1	B	1451	LYS
1	B	1471	THR

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Mol	Chain	Res	Type
1	B	1490	GLU
1	B	1529	THR
1	B	1533	LYS
1	B	1572	THR
1	B	1591	THR
1	B	1596	GLU
1	B	1652	VAL
1	B	1723	THR
1	B	1735	SER
1	B	1760	GLU
1	B	1902	ASP
1	B	1944	GLN
1	B	1948	LEU
1	B	1962	SER
1	B	1968	SER
1	B	1976	SER
1	B	1982	MET
1	B	2085	SER
1	B	2093	ILE
1	B	2097	ASP
1	B	2131	SER
1	B	2145	SER
1	B	2156	GLU
1	B	2166	SER
1	B	2190	GLU
1	B	2249	THR
1	B	2251	ASP
1	B	2274	SER
1	B	2305	VAL
1	B	2309	ASP
1	B	2317	ILE
1	B	2417	LEU
1	B	2433	ASP
1	C	49	LEU
1	C	78	LYS
1	C	150	VAL
1	C	201	TYR
1	C	324	THR
1	C	364	LYS
1	C	368	ASP
1	C	398	SER
1	C	442	GLU

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Mol	Chain	Res	Type
1	C	544	ILE
1	C	608	THR
1	C	678	LEU
1	C	679	ASP
1	C	709	ASP
1	C	734	GLU
1	C	787	THR
1	C	834	GLU
1	C	835	VAL
1	C	851	THR
1	C	891	ASP
1	C	906	GLN
1	C	1023	THR
1	C	1126	VAL
1	C	1162	SER
1	C	1181	SER
1	C	1190	SER
1	C	1259	VAL
1	C	1285	VAL
1	C	1451	LYS
1	C	1471	THR
1	C	1490	GLU
1	C	1529	THR
1	C	1533	LYS
1	C	1572	THR
1	C	1591	THR
1	C	1596	GLU
1	C	1652	VAL
1	C	1723	THR
1	C	1735	SER
1	C	1760	GLU
1	C	1902	ASP
1	C	1944	GLN
1	C	1948	LEU
1	C	1962	SER
1	C	1968	SER
1	C	1976	SER
1	C	1982	MET
1	C	2085	SER
1	C	2093	ILE
1	C	2097	ASP
1	C	2131	SER

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Mol	Chain	Res	Type
1	C	2145	SER
1	C	2156	GLU
1	C	2166	SER
1	C	2190	GLU
1	C	2249	THR
1	C	2251	ASP
1	C	2274	SER
1	C	2305	VAL
1	C	2309	ASP
1	C	2317	ILE
1	C	2417	LEU
1	C	2433	ASP
1	D	49	LEU
1	D	78	LYS
1	D	150	VAL
1	D	201	TYR
1	D	324	THR
1	D	364	LYS
1	D	368	ASP
1	D	398	SER
1	D	442	GLU
1	D	544	ILE
1	D	608	THR
1	D	678	LEU
1	D	679	ASP
1	D	709	ASP
1	D	734	GLU
1	D	787	THR
1	D	834	GLU
1	D	835	VAL
1	D	851	THR
1	D	891	ASP
1	D	906	GLN
1	D	1023	THR
1	D	1126	VAL
1	D	1162	SER
1	D	1181	SER
1	D	1190	SER
1	D	1259	VAL
1	D	1285	VAL
1	D	1451	LYS
1	D	1471	THR

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Mol	Chain	Res	Type
1	D	1490	GLU
1	D	1529	THR
1	D	1533	LYS
1	D	1572	THR
1	D	1591	THR
1	D	1596	GLU
1	D	1652	VAL
1	D	1723	THR
1	D	1735	SER
1	D	1760	GLU
1	D	1902	ASP
1	D	1944	GLN
1	D	1948	LEU
1	D	1962	SER
1	D	1968	SER
1	D	1976	SER
1	D	1982	MET
1	D	2085	SER
1	D	2093	ILE
1	D	2097	ASP
1	D	2131	SER
1	D	2145	SER
1	D	2156	GLU
1	D	2166	SER
1	D	2190	GLU
1	D	2249	THR
1	D	2251	ASP
1	D	2274	SER
1	D	2305	VAL
1	D	2309	ASP
1	D	2317	ILE
1	D	2417	LEU
1	D	2433	ASP
1	E	49	LEU
1	E	78	LYS
1	E	150	VAL
1	E	201	TYR
1	E	324	THR
1	E	364	LYS
1	E	368	ASP
1	E	398	SER
1	E	442	GLU

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Mol	Chain	Res	Type
1	E	544	ILE
1	E	608	THR
1	E	678	LEU
1	E	679	ASP
1	E	709	ASP
1	E	734	GLU
1	E	787	THR
1	E	834	GLU
1	E	835	VAL
1	E	851	THR
1	E	891	ASP
1	E	906	GLN
1	E	1023	THR
1	E	1126	VAL
1	E	1162	SER
1	E	1181	SER
1	E	1190	SER
1	E	1259	VAL
1	E	1285	VAL
1	E	1451	LYS
1	E	1471	THR
1	E	1490	GLU
1	E	1529	THR
1	E	1533	LYS
1	E	1572	THR
1	E	1591	THR
1	E	1596	GLU
1	E	1652	VAL
1	E	1723	THR
1	E	1735	SER
1	E	1760	GLU
1	E	1902	ASP
1	E	1944	GLN
1	E	1948	LEU
1	E	1962	SER
1	E	1968	SER
1	E	1976	SER
1	E	1982	MET
1	E	2085	SER
1	E	2093	ILE
1	E	2097	ASP
1	E	2131	SER

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Mol	Chain	Res	Type
1	E	2145	SER
1	E	2156	GLU
1	E	2166	SER
1	E	2190	GLU
1	E	2249	THR
1	E	2251	ASP
1	E	2274	SER
1	E	2305	VAL
1	E	2309	ASP
1	E	2317	ILE
1	E	2417	LEU
1	E	2433	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (163) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	51	HIS
1	A	158	ASN
1	A	184	ASN
1	A	209	HIS
1	A	315	ASN
1	A	528	ASN
1	A	657	GLN
1	A	757	GLN
1	A	816	GLN
1	A	920	ASN
1	A	934	ASN
1	A	973	ASN
1	A	1028	GLN
1	A	1073	HIS
1	A	1103	HIS
1	A	1150	GLN
1	A	1227	HIS
1	A	1279	ASN
1	A	1288	HIS
1	A	1580	ASN
1	A	1617	HIS
1	A	1620	ASN
1	A	1680	ASN
1	A	1767	ASN
1	A	1811	ASN

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Mol	Chain	Res	Type
1	A	1883	GLN
1	A	2146	GLN
1	A	2188	GLN
1	A	2278	ASN
1	A	2310	ASN
1	A	2328	ASN
1	A	2394	ASN
1	B	38	ASN
1	B	51	HIS
1	B	158	ASN
1	B	209	HIS
1	B	315	ASN
1	B	528	ASN
1	B	533	ASN
1	B	657	GLN
1	B	757	GLN
1	B	816	GLN
1	B	920	ASN
1	B	934	ASN
1	B	973	ASN
1	B	1028	GLN
1	B	1073	HIS
1	B	1103	HIS
1	B	1150	GLN
1	B	1227	HIS
1	B	1279	ASN
1	B	1288	HIS
1	B	1617	HIS
1	B	1620	ASN
1	B	1680	ASN
1	B	1767	ASN
1	B	1811	ASN
1	B	1872	ASN
1	B	1883	GLN
1	B	2146	GLN
1	B	2188	GLN
1	B	2278	ASN
1	B	2310	ASN
1	B	2328	ASN
1	B	2394	ASN
1	C	38	ASN
1	C	51	HIS

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Mol	Chain	Res	Type
1	C	158	ASN
1	C	209	HIS
1	C	315	ASN
1	C	528	ASN
1	C	657	GLN
1	C	757	GLN
1	C	816	GLN
1	C	920	ASN
1	C	934	ASN
1	C	973	ASN
1	C	1073	HIS
1	C	1103	HIS
1	C	1150	GLN
1	C	1227	HIS
1	C	1264	ASN
1	C	1279	ASN
1	C	1288	HIS
1	C	1617	HIS
1	C	1620	ASN
1	C	1680	ASN
1	C	1767	ASN
1	C	1811	ASN
1	C	1883	GLN
1	C	2146	GLN
1	C	2188	GLN
1	C	2265	ASN
1	C	2278	ASN
1	C	2310	ASN
1	C	2328	ASN
1	C	2394	ASN
1	D	38	ASN
1	D	51	HIS
1	D	158	ASN
1	D	209	HIS
1	D	315	ASN
1	D	528	ASN
1	D	533	ASN
1	D	657	GLN
1	D	757	GLN
1	D	816	GLN
1	D	920	ASN
1	D	934	ASN

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Mol	Chain	Res	Type
1	D	973	ASN
1	D	1028	GLN
1	D	1073	HIS
1	D	1103	HIS
1	D	1150	GLN
1	D	1227	HIS
1	D	1279	ASN
1	D	1288	HIS
1	D	1617	HIS
1	D	1620	ASN
1	D	1680	ASN
1	D	1767	ASN
1	D	1811	ASN
1	D	1883	GLN
1	D	2146	GLN
1	D	2188	GLN
1	D	2278	ASN
1	D	2310	ASN
1	D	2328	ASN
1	D	2394	ASN
1	E	38	ASN
1	E	51	HIS
1	E	158	ASN
1	E	209	HIS
1	E	294	GLN
1	E	315	ASN
1	E	528	ASN
1	E	657	GLN
1	E	757	GLN
1	E	816	GLN
1	E	920	ASN
1	E	934	ASN
1	E	973	ASN
1	E	1028	GLN
1	E	1073	HIS
1	E	1103	HIS
1	E	1150	GLN
1	E	1227	HIS
1	E	1279	ASN
1	E	1288	HIS
1	E	1617	HIS
1	E	1620	ASN

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Mol	Chain	Res	Type
1	E	1680	ASN
1	E	1811	ASN
1	E	1872	ASN
1	E	1883	GLN
1	E	2146	GLN
1	E	2188	GLN
1	E	2266	ASN
1	E	2278	ASN
1	E	2310	ASN
1	E	2328	ASN
1	E	2394	ASN

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

There are no monosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

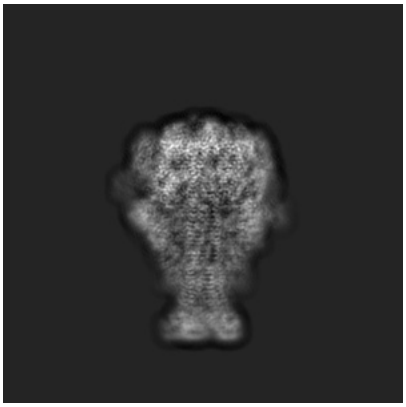
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-10796. These allow visual inspection of the internal detail of the map and identification of artifacts.

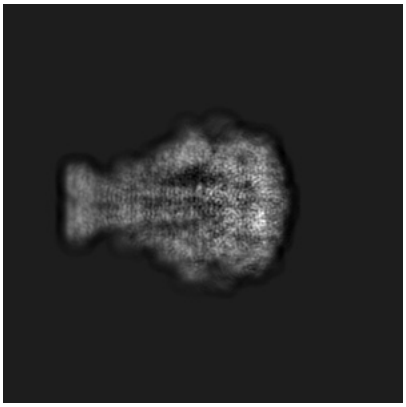
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

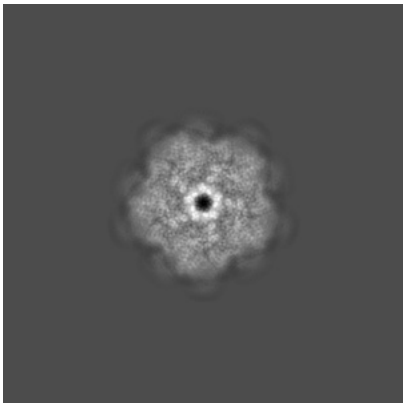
6.1.1 Primary map



X



Y

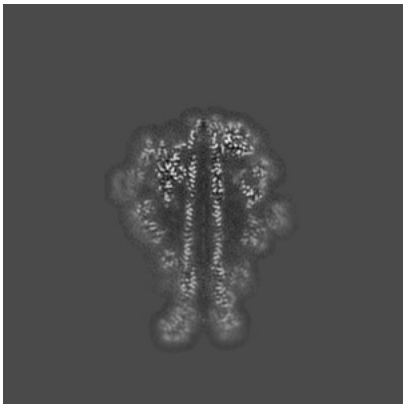


Z

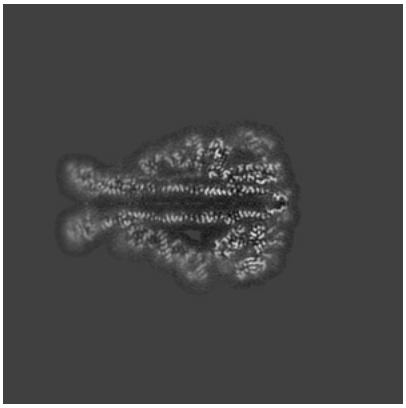
The images above show the map projected in three orthogonal directions.

6.2 Central slices

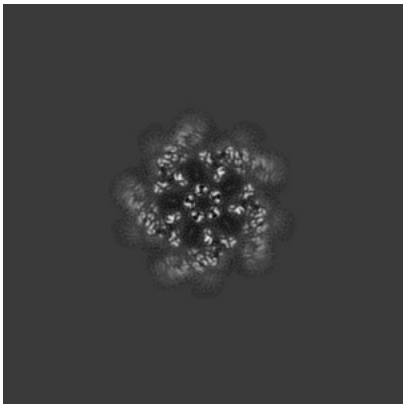
6.2.1 Primary map



X Index: 192



Y Index: 192

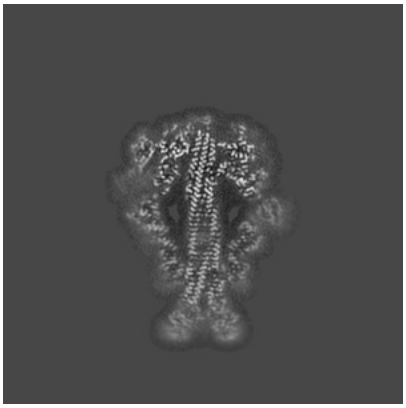


Z Index: 192

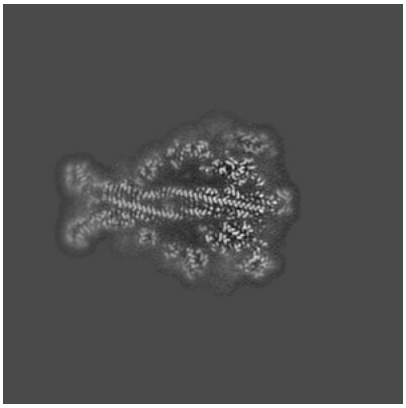
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

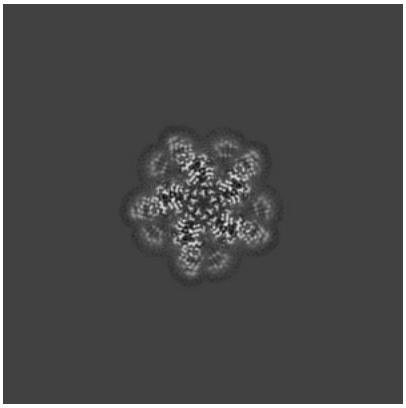
6.3.1 Primary map



X Index: 182



Y Index: 182

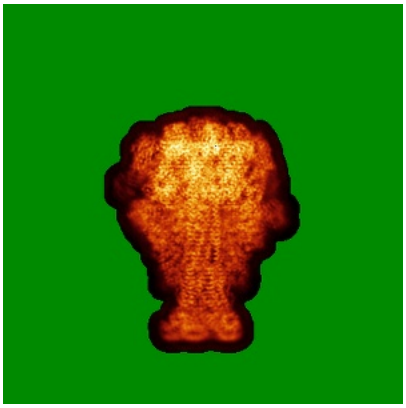


Z Index: 246

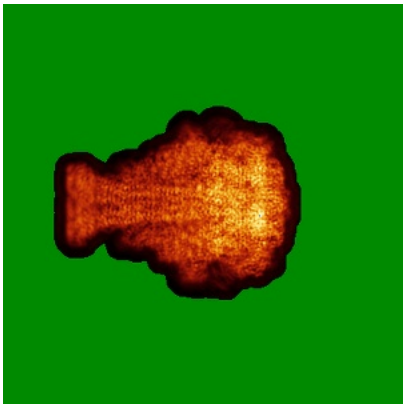
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

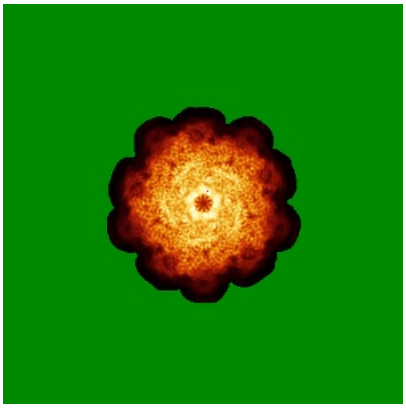
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.023. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

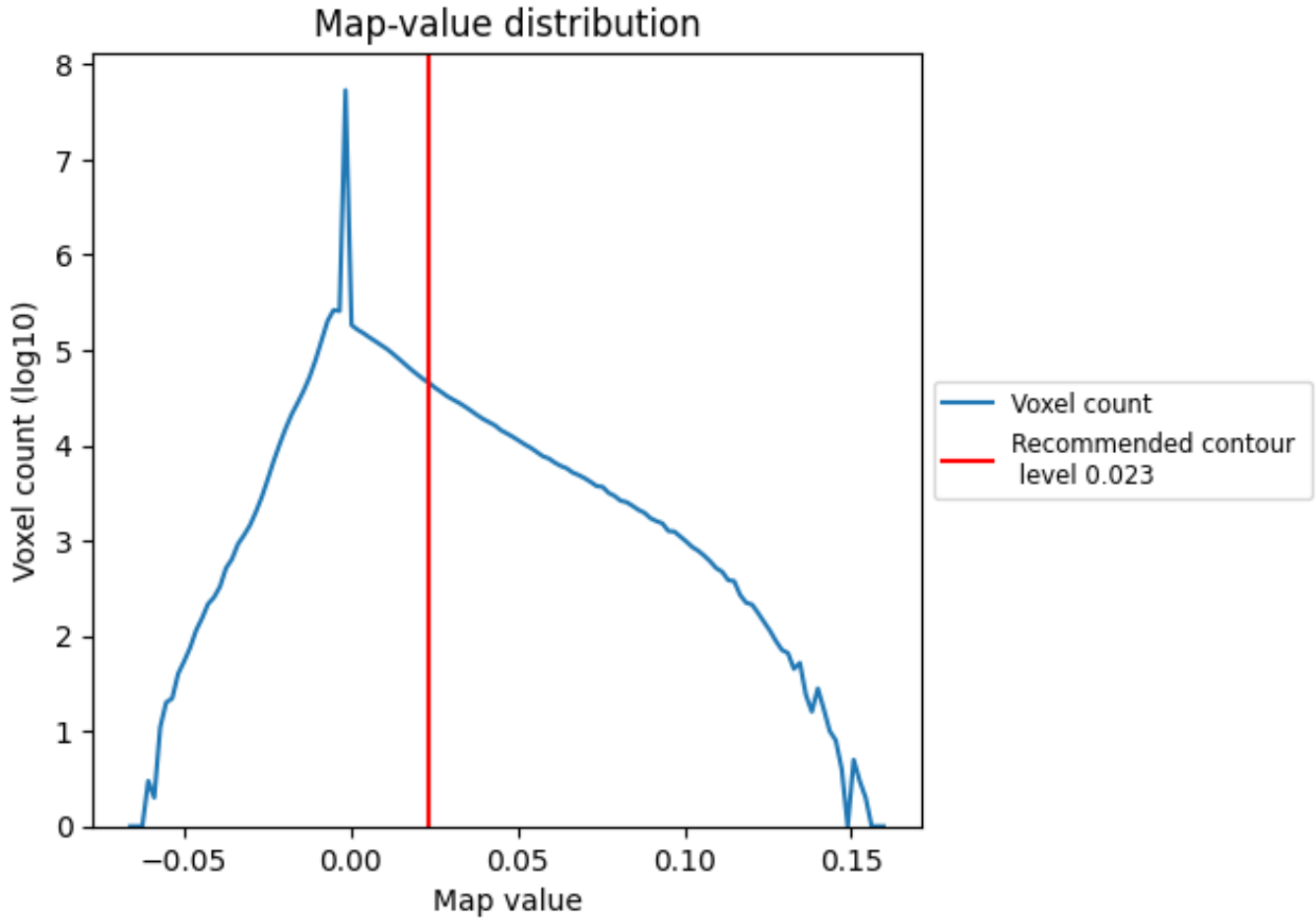
6.6 Mask visualisation (i)

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

7 Map analysis

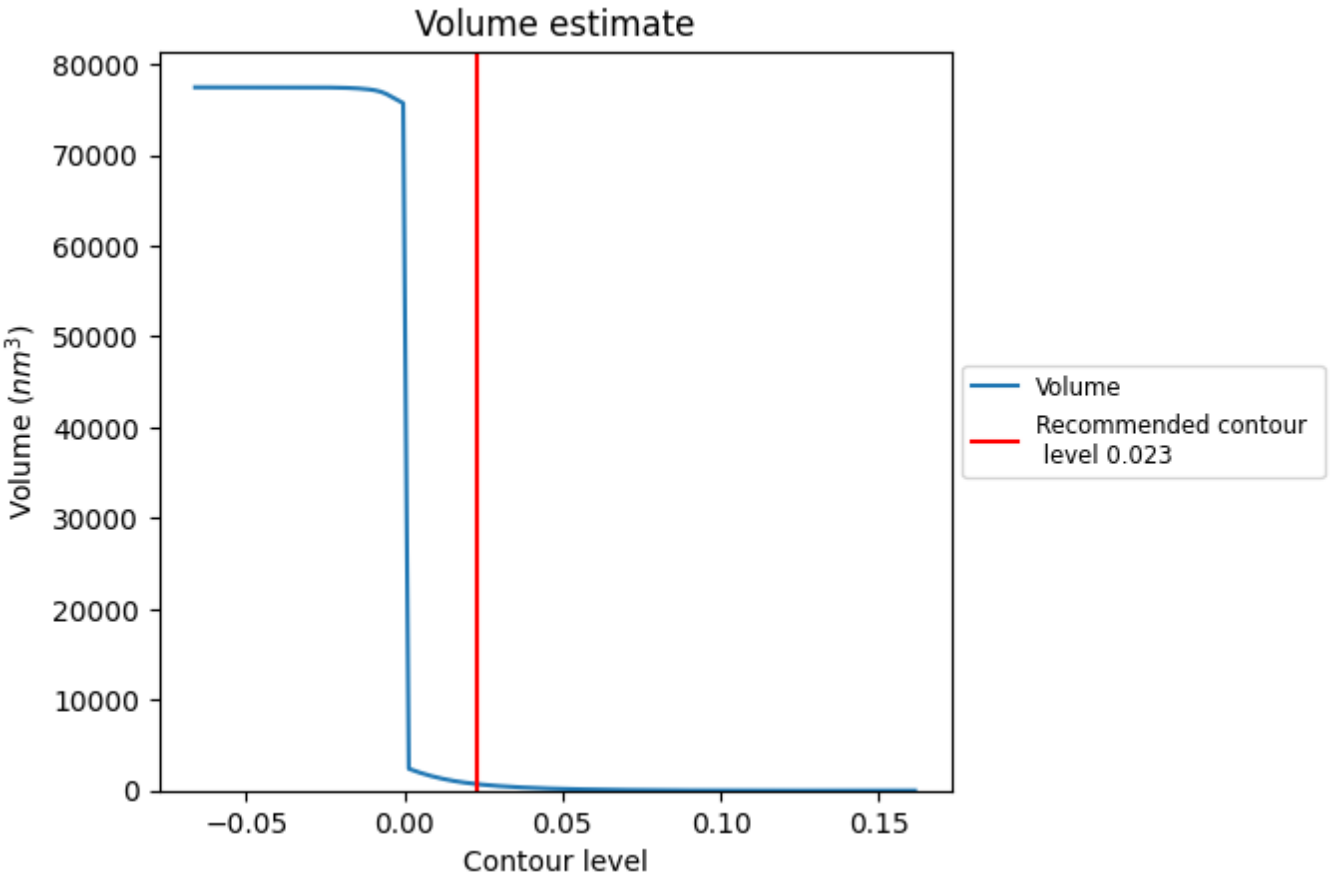
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

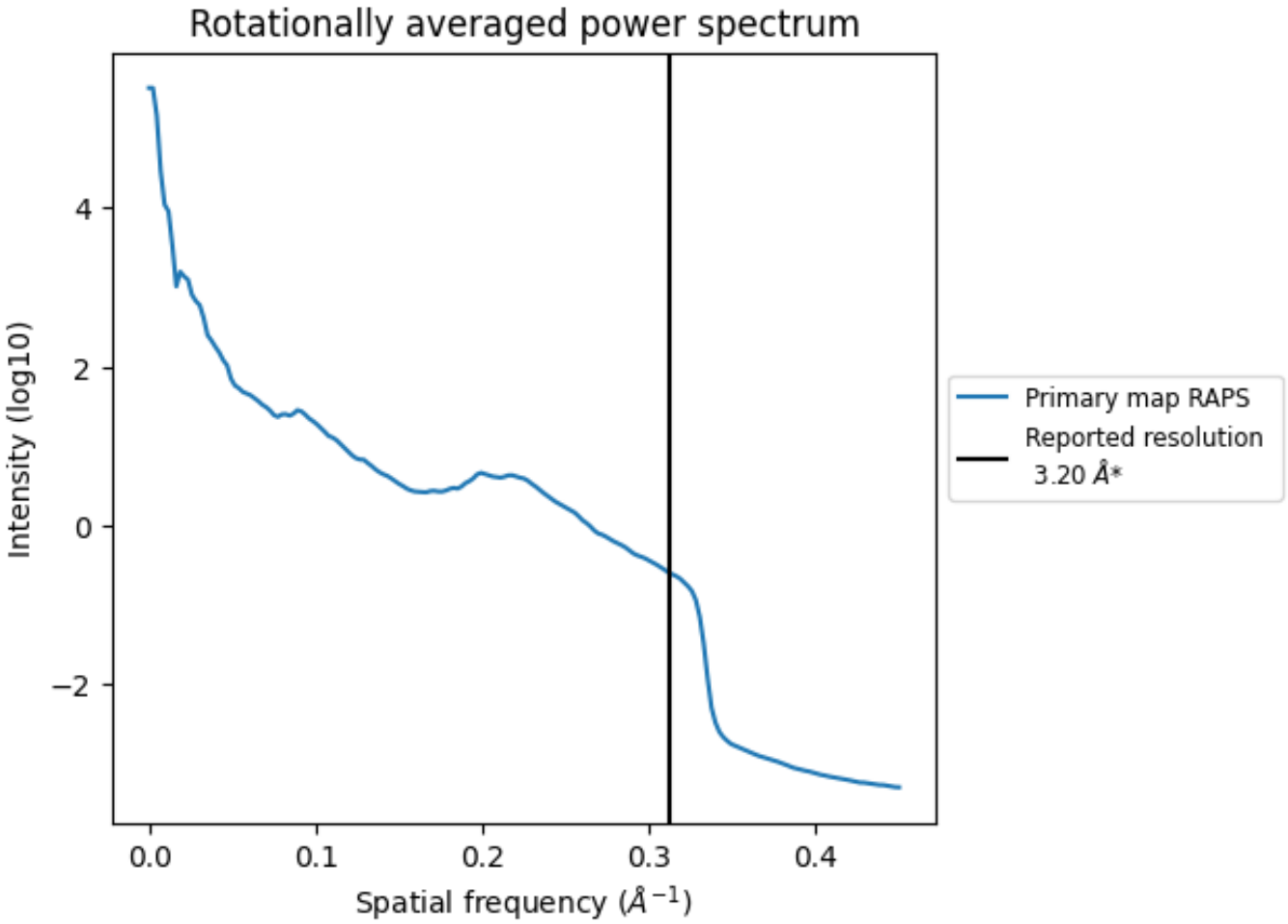
7.2 Volume estimate



The volume at the recommended contour level is 712 nm^3; this corresponds to an approximate mass of 643 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.312 Å^{-1}

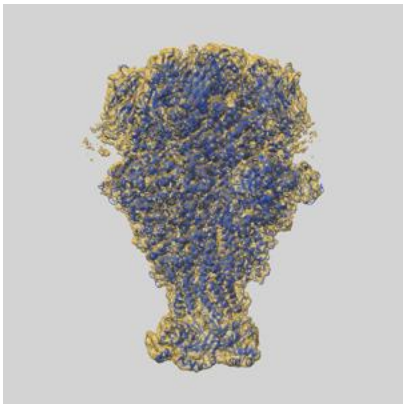
8 Fourier-Shell correlation (i)

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

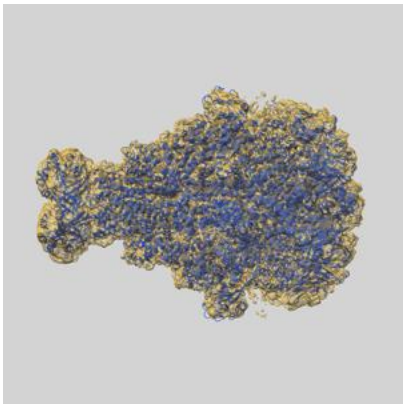
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-10796 and PDB model 6YEW. Per-residue inclusion information can be found in section 3 on page 4.

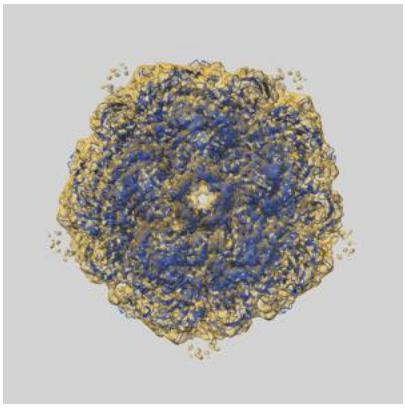
9.1 Map-model overlay



X



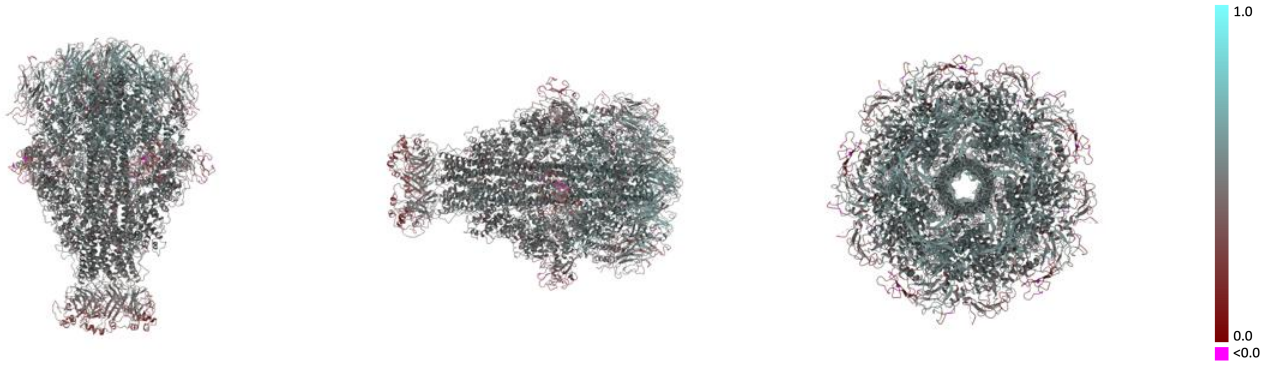
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.023 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

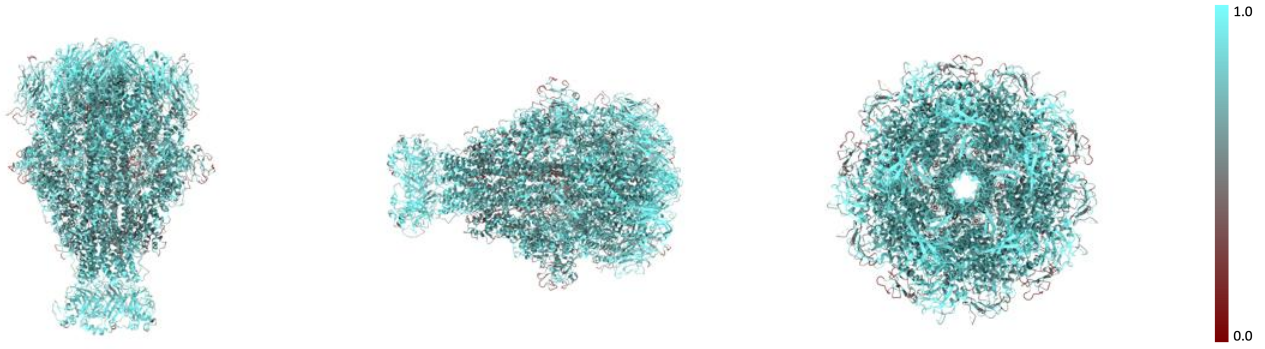
9.2 Q-score mapped to coordinate model



X Y Z

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

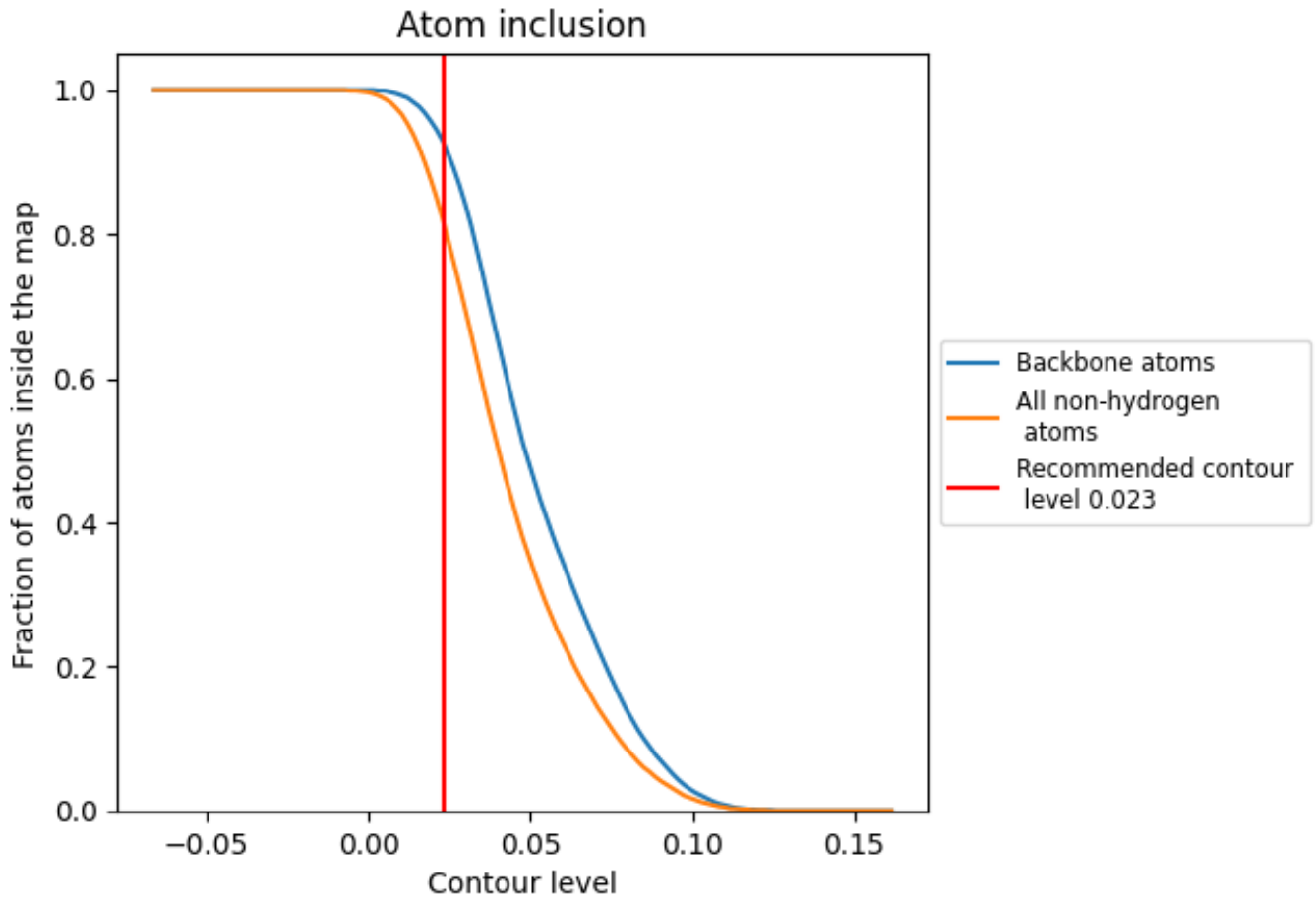
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.023).

9.4 Atom inclusion (i)



At the recommended contour level, 93% of all backbone atoms, 82% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.023) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8200	0.4780
A	0.8230	0.4800
B	0.8240	0.4810
C	0.8240	0.4810
D	0.8210	0.4790
E	0.8110	0.4710