



## Full wwPDB EM Validation Report ⓘ

Dec 17, 2022 – 04:44 pm GMT

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](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev43  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.3

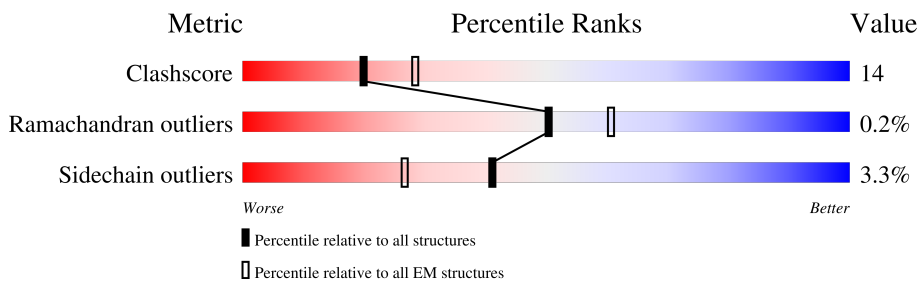
# 1 Overall quality at a glance i

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

Mol	Chain	Length	Quality of chain
1	A	2469	
1	B	2469	
1	C	2469	
1	D	2469	
1	E	2469	

## 2 Entry composition

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.

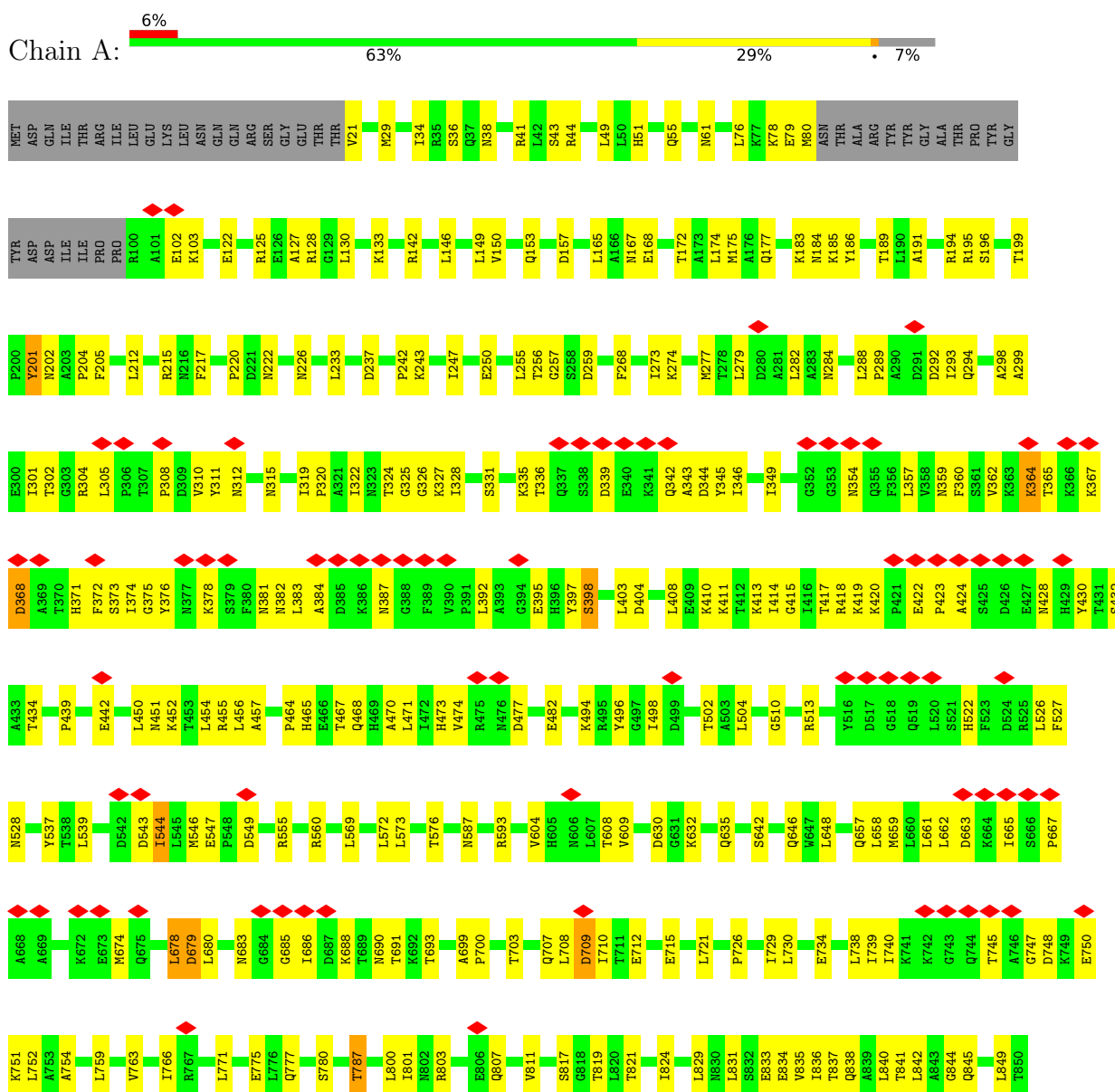
- Molecule 1 is a protein called Insecticidal toxin protein.

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

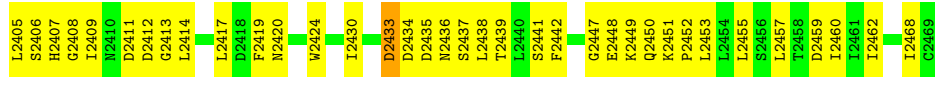
### 3 Residue-property plots

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

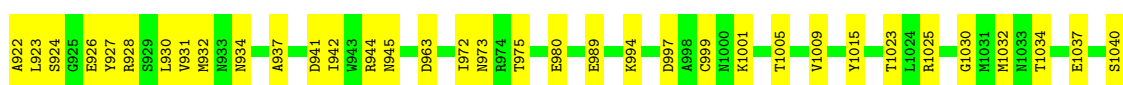
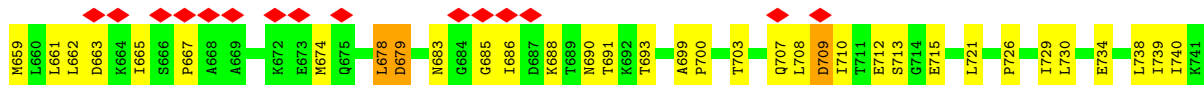
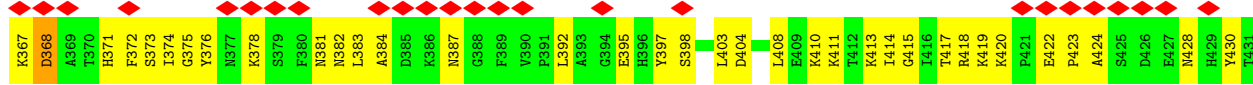
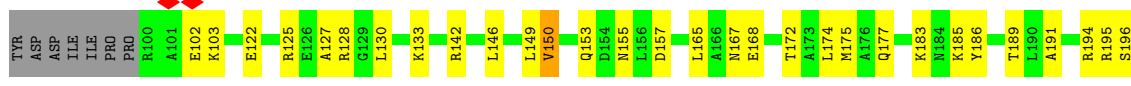
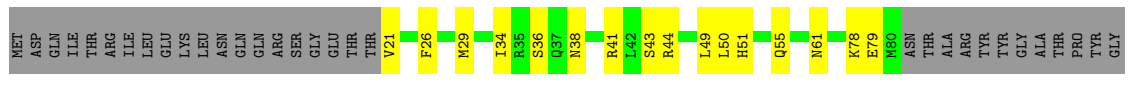
- Molecule 1: Insecticidal toxin protein





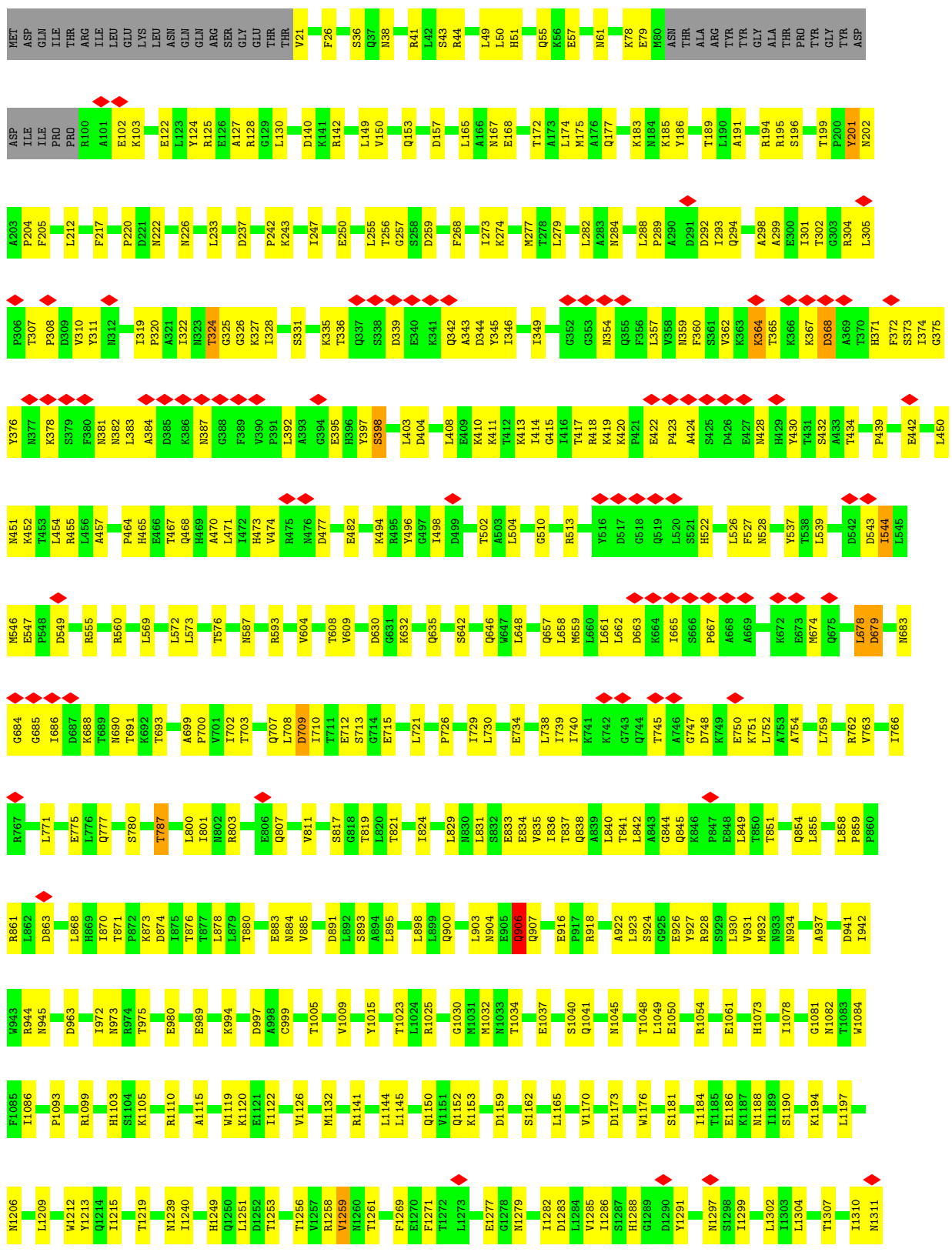


• Molecule 1: Insecticidal toxin protein

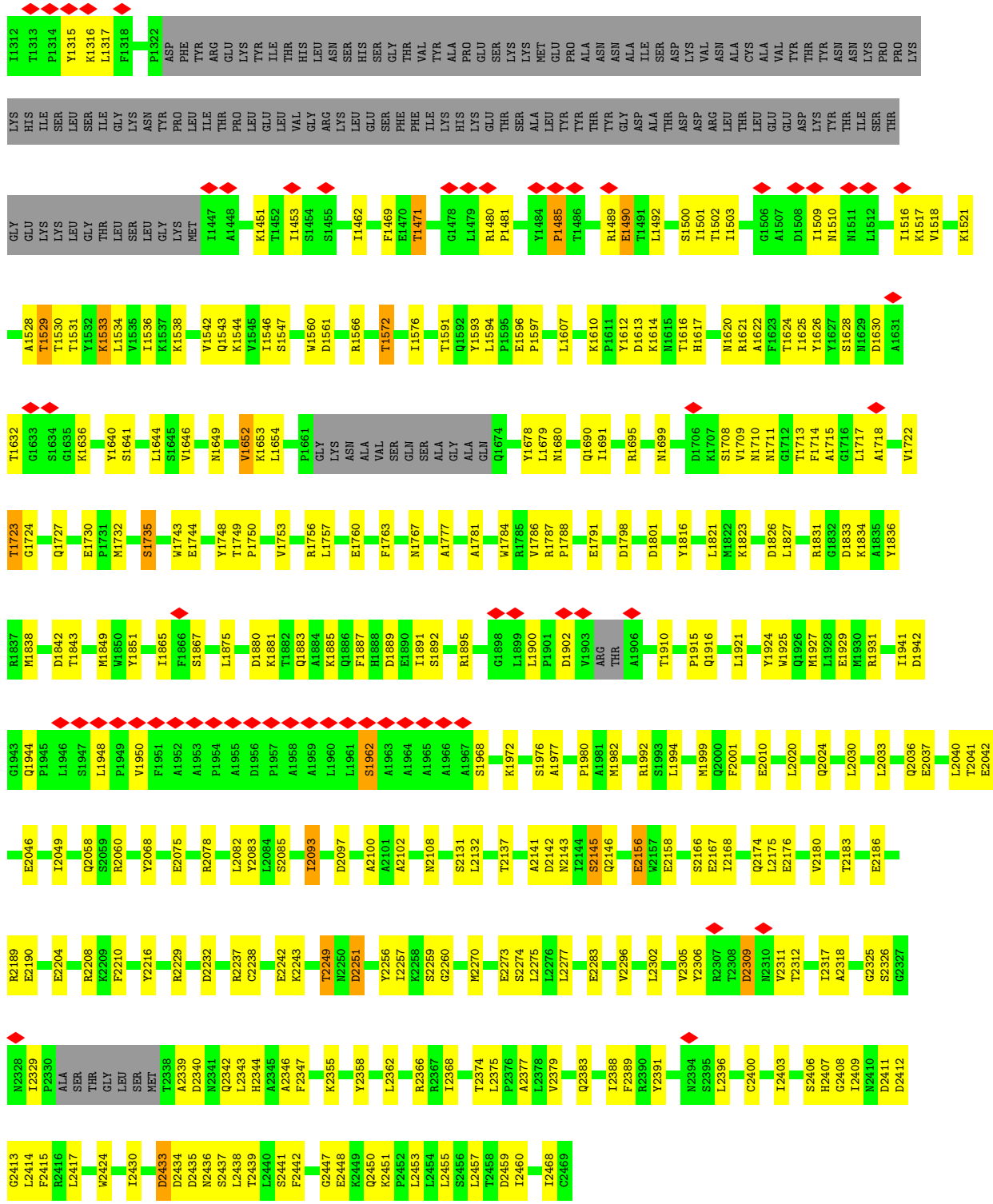


C2400	G2406	H2407	G2408	L2409	M2410	D2411	S2412	G2413	L2414	L2417	D2418	F2419	W2424	F2427	I2430	D2433	D2434	D2435	N2436	S2437	L2438	L2439	L2440	S2441	F2442	G2447	E2448	K2449	Q2450	K2451	P2452	L2453	L2454	L2455	S2456	L2457	D2458	L2460	I2468	C2469																																																				
I2168	T2308	D2309	N2310	V2311	T2312	I2317	A2318	G2325	D2411	S2326	G2327	N2328	I2329	P2330	ALA	SER	THR	GLY	LEU	SER	MET	T2338	A2339	D2340	N2341	Q2342	L2343	H2344	A2345	A2346	F2347	Y2358	R2366	P2367	I2368	K2369	Q2370	I2371	T2374	L2375	P2376	A2377	L2379	Q2383	I2388	F2389	R2390	Y2391	N2394	S2395	L2396																																									
L2040	T2041	E2042	E2046	K2047	K2048	L2049	Q2058	S2059	R2060	L2067	E2075	R2078	L2082	Y2083	L2084	S2085	I2083	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	A2240	E2242	T2249	N2250	D2251	Y2256	L2257	K2258	S2259	G2260	N2270	E2273	S2274	L2277	N2278	L2279	E2283	V2296	F2299	L2302	V2305	Y2306	R2307													
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R1821	A1822	F1823	T1824	L1825	Y1826	Y1827	M1828	D1830	G1833	S1834	G1835	K1836	Y1640	S1641	L1644	S1645	V1646	M1649	V1652	K1653	L1654	P1661	GLY	LYS	ASN	ALA	VAL	GLN	ALA	ALA	GLN	Q1674	Y1678	L1679	M1680	Q1690	I1691	R1695	M1699	S1708	E1490	T1491	L1492	M1615	T1616	H1617	M1620																																													
T1713	F1714	A1715	G1716	L1717	A1718	V1722	T1723	G1724	Q1727	E1730	P1731	M1732	S1735	W1743	E1744	Y1748	T1749	P1750	V1753	R1756	L1757	E1760	F1763	M1767	A1777	A1781	W1784	R1785	V1786	P1788	E1791	D1798	D1801	K1823	D1826	L1827	R1831	G1832																																																						
D1833	K1834	Y1836	D1842	T1843	M1849	W1850	Y1851	I1866	F1866	S1867	E1871	L1875	D1880	K1881	T1882	Q1883	A1884	K1885	Q1886	F1887	H1888	D1889	I1891	R1895	G1896	L1896	L1900	P1901	D1902	V1903	ARG	THR	A1906	P1915	Y1924	W1925	Q1926	M1927	L1928	E1929	M1930	R1931	I1941	D1942	G1943																																															
Q1944	P1945	L1946	S1947	L1948	P1949	V1950	F1951	A1952	A1953	P1954	D1955	A1956	P1957	A1958	A1959	L1960	L1961	S1962	A1963	A1964	A1965	A1966	A1967	S1968	K1972	S1976	P1980	A1981	M1982	R1983	R1992	S1993	L1994	M1999	F2001	L2008	I2009	E2010	D2013	M2017	L2020	Q2024	R2034	N2035	Q2036	E2037																																														
L2040	T2041	E2042	E2046	K2047	K2048	L2049	Q2058	S2059	R2060	L2067	E2075	R2078	L2082	Y2083	L2084	S2085	I2083	D2097	A2100	A2101	A2102	M2105	V2114	S2117	R2118	W2119	P2123	S2131	L2132	D2142	S2145	Q2146	S2147	E2148	R2152	E2156	K2161	S2166	E2167																																																					
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T2308	D2309	N2310	V2311	T2312	I2317	A2318	G2325	D2411	S2326	G2327	N2328	I2329	P2330	ALA	SER	THR	GLY	LEU	SER	MET	T2338	A2339	D2340	N2341	Q2342	L2343	H2344	A2345	A2346	F2347	Y2358	R2366	P2367	I2368	K2369	Q2370	I2371	T2374	L2375	P2376	A2377	L2379	Q2383	I2388	F2389	R2390	Y2391	N2394	S2395	L2396																																										
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ASP	ARG	LEU	THR	LEU	GLU	GLU	ASP	LYS	TYR	THR	ILE	SER	THR	GLY	GLU	LYS	LYS	LEU	LEU	GLY	THR	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	M1615	T1616	H1617	M1620																																										
ASN	ALA	CYS	ALA	VAL	TYR	THR	ASN	LYS	PRO	PRO	LYS	PRO	LEU	GLY	LYS	ASN	PRO	LEU	TYR	ARG	PRO	GLU	LYS	TYR	LEU	GLU	ILE	LEU	VAL	HIS	LEU	ASN	SER	SER	GLY	THR	VAL	LYS	TYR	ALA	HIS	LYS	PRO	GLU	THR	SER	LYS	NET	GLU	PRO	ALA	ASN	TYR	V1285	I1286	S1287	H1288	G1289	D1290																																	

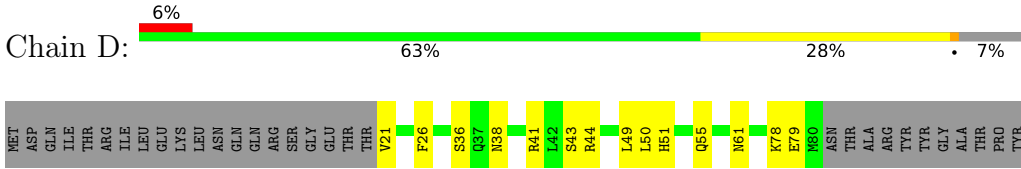
• Molecule 1: Insecticidal toxin protein



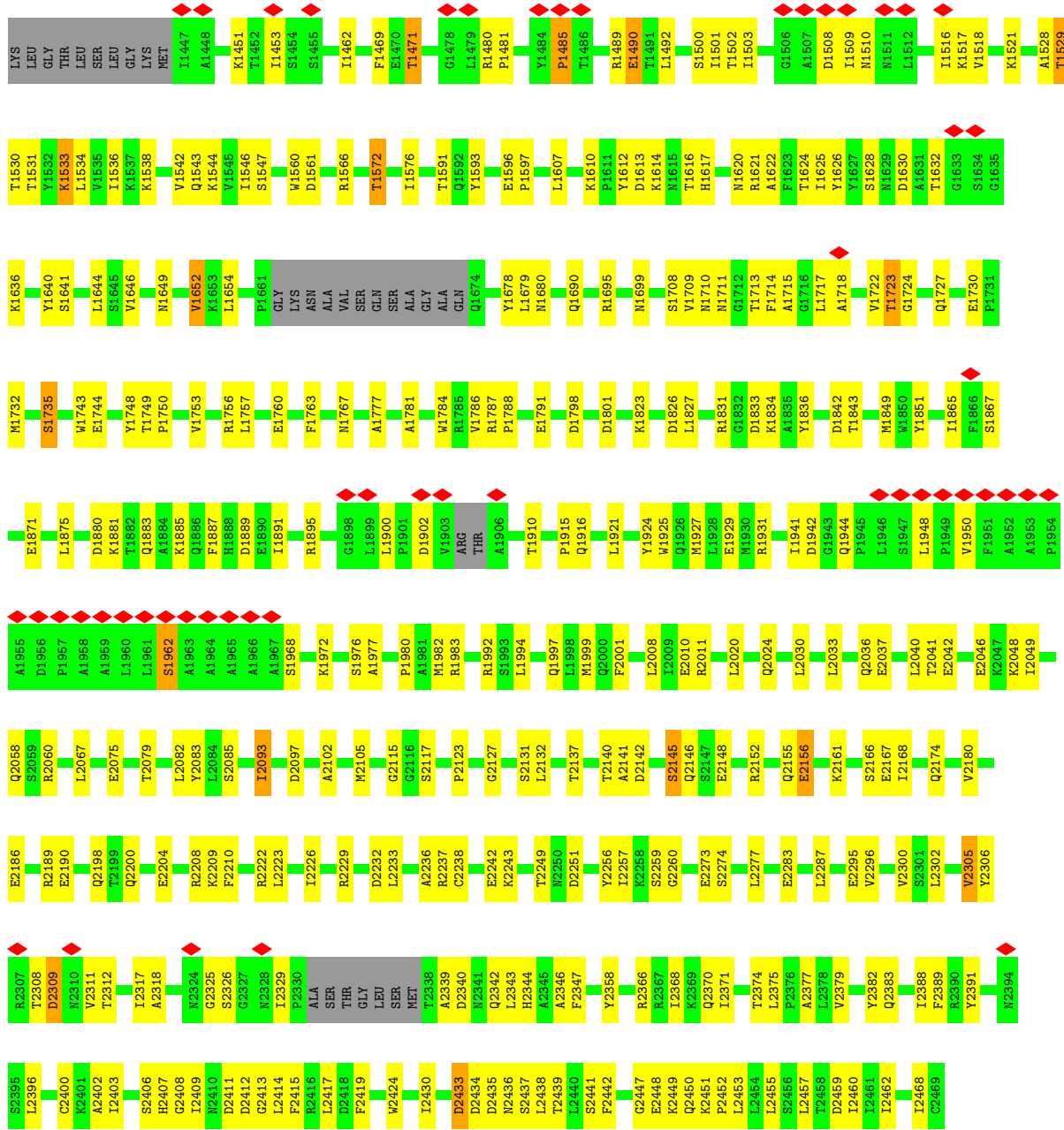




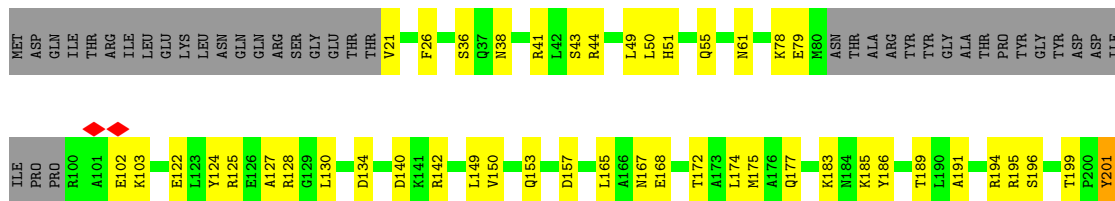
• Molecule 1: Insecticidal toxin protein

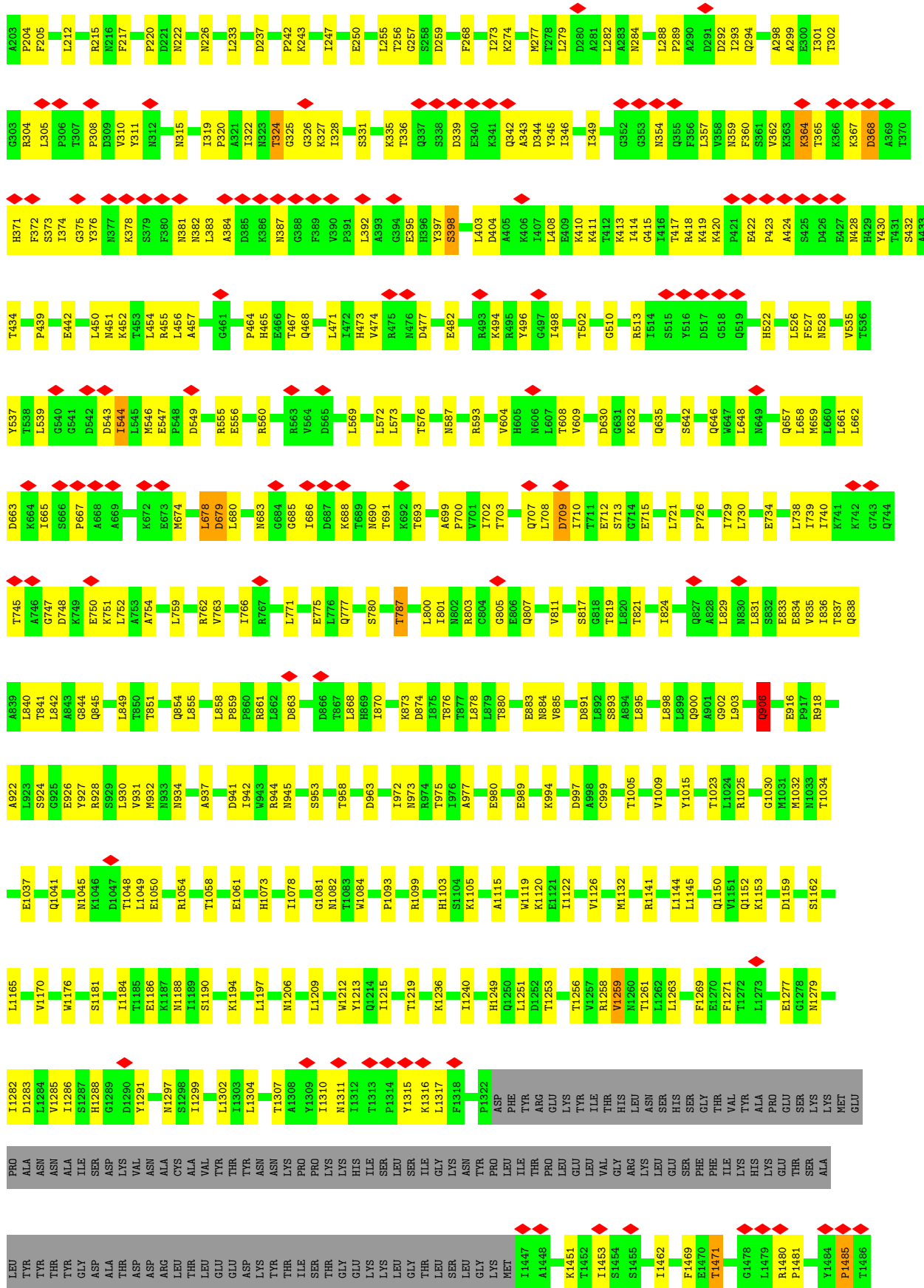


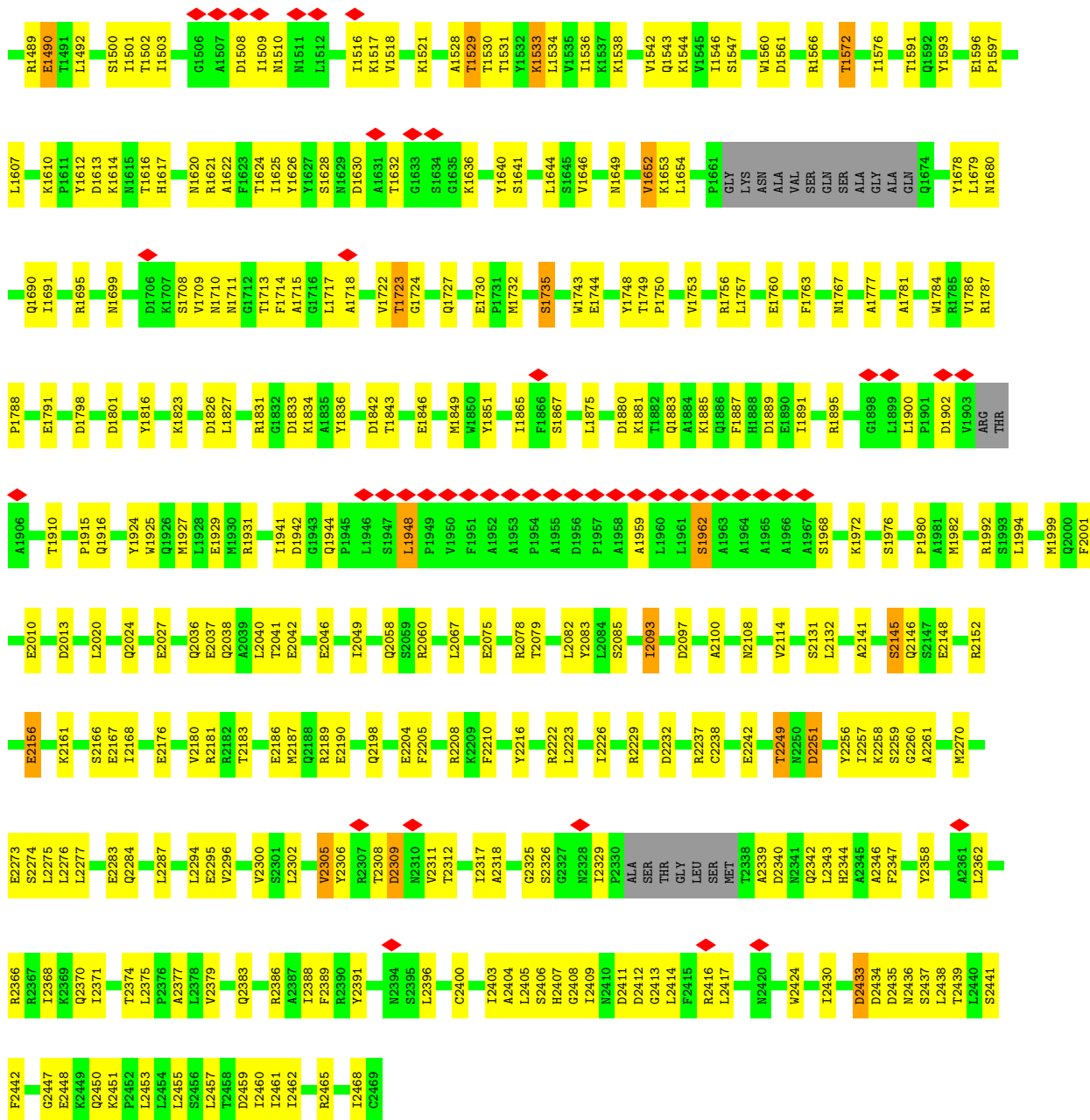
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A203 P204 F205 L212 F217 P220 N222 N226 L233 D237 P242 K243 I247 E250 L255 T256 G257 D259 F268 I273 A344 K274 M277 T278 L279 D280 A281 L282 N284 L288 P289 A290 D291 D292 I293 Q294 A298 E299 E300 I301 T302 G303 R304	
L305 P306 T307 P308 D309 V310 Y311 N312 I319 P320 A321 I322 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 V362 S362 K363 K364 T365 K366 E367 M428 H429 Y430 T431 S432 A433 T434 I437 H438	
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 L407 L408 E409 K410 K411 K413 I414 G415 I416 T417 R418 K419 K420 P421 E422 P423 A424 S425 D426 E427 M428 H429 Y430 T431 S432 A433 T434 I437 H438	
P439 E442 L450 M451 K452 T453 L454 R455 L456 A457 P464 H465 E466 T467 Q468 L471 I472 H473 V474 R475 M476 D477 E482 K494 A495 Y496 D499 G510 R513 D517 G518 Q519 L520 S521 H522 F523 D524 R525 L526 F527 N528 N533 Y537 T538 L539 D542 D543	
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R767 L771 E775 Q776 L777 S780 T787 L800 R801 R802 R803 E806 O807 V811 S817 T819 L820 T821 L824 L829 N830 L831 S832 E833 E834 W835 T837 Q838 R839 L840 T841 L842 L843 G844 Q845 L849 T850 T851 Q854 L855 L858 P859 R860 R861 L862	
D863 L868 H869 I870 R873 D874 L875 T876 L878 T880 E883 N884 V885 D891 L892 S893 A894 L895 L898 L899 Q900 L903 N904 E905 Q906 Q907 E916 F917 R918 A922 L923 S924 G925 Y927 R928 S929 L930 V931 M932 N933 N934 A937 D941 I942 W943 R944 N945	
D963 I972 T975 E980 E989 D997 A998 C999 N1000 R1002 T1005 V1009 Y1015 T1023 L1024 R1025 Q1028 T1029 G1030 M1031 M1032 N1033 T1034 E1037 S1040 Q1041 N1045 T1048 L1049 E1050 R1054 L1064 V1066 H1073 I1078 G1081 N1082 T1083 W1084	
P1093 R1099 H1103 S1104 K1105 A1115 M1119 I1122 V1126 N1125 M1132 R1141 L1144 L1145 Q1150 Q1151 Q1152 K1153 D1159 S1162 L1165 V1170 K1171 V1172 D1173 M1176 S1181 I1184 T1185 E1186 K1187 M1188 I1189 S1190 K1194 L1197 M1206 L1209 M1212	
Y1213 Q1214 I1215 T1219 K1236 N1239 I1240 H1249 Q1250 L1251 D1252 T1253 T1256 V1257 R1258 V1259 T1261 F1269 E1270 F1271 T1272 L1273 E1277 G1278 N1279 T1282 D1283 L1284 V1286 S1287 H1288 G1289 D1290 Y1291 M1297 S1298 I1299 L1302 I1303 L1304 T1307 I1310 M1311 I1312 T1313 P1314	
Y1315 K1316 L1317 F1318 F1322 PHE TYR ILE ARG GLU LYS ASN ASP PRO PHE TYR ILE VAL GLY LEU ARG SER HIS SER GLY THR PHE THR VAL ILE LYS HIS GLU GLY SER LEU SER SER GLY THR PHE PHE ILE LYS HIS HIS GLU THR LYS SER SER MET GLU LEU TYR TYR ASN ASN ALA ILE ASP SER LYS VAL ASN ALA CYS TYR VAL THR THR TYR ASN ASN PRO PRO LYS GLY GLU LYS ILE	



• Molecule 1: Insecticidal toxin protein







## 4 Experimental information

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 ( $e^-/\text{\AA}^2$ )	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 i

### 5.1 Standard geometry i

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(°)	Ideal(°)
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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

*Continued on next page...*



*Continued from previous page...*

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 [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

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

There are no such residues in this entry.

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

There are no chain breaks in this entry.

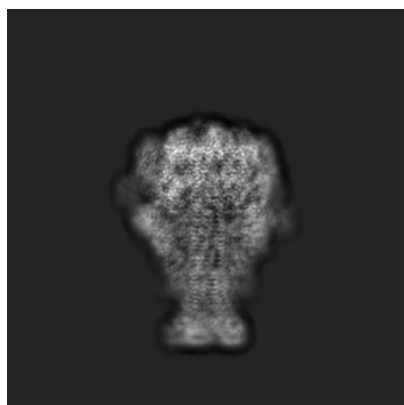
## 6 Map visualisation [i](#)

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

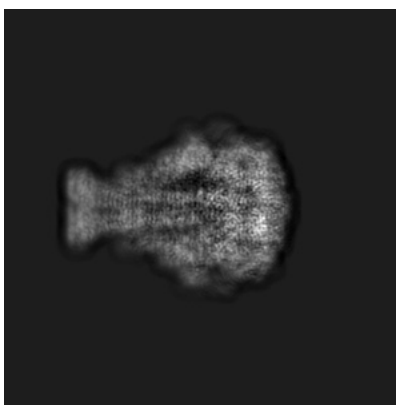
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

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

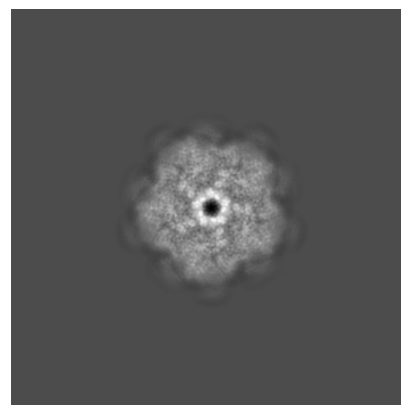
#### 6.1.1 Primary map



X



Y

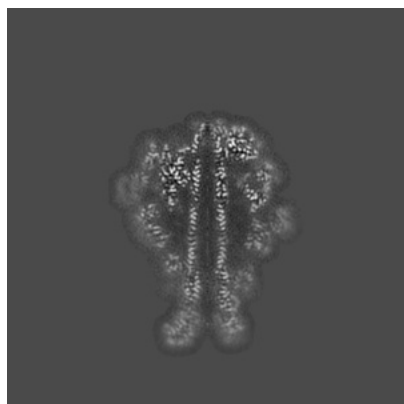


Z

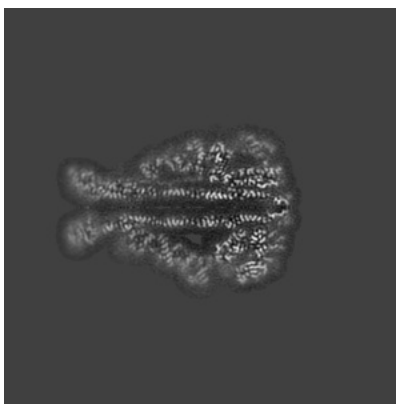
The images above show the map projected in three orthogonal directions.

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

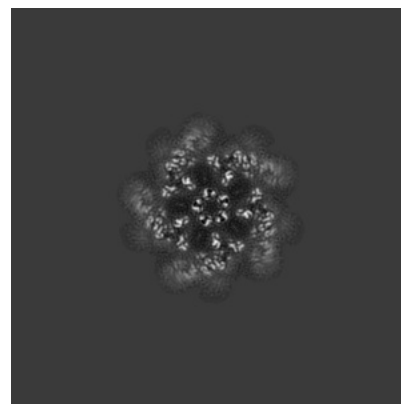
#### 6.2.1 Primary map



X Index: 192



Y Index: 192

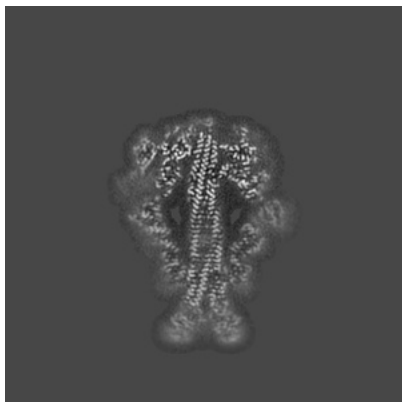


Z Index: 192

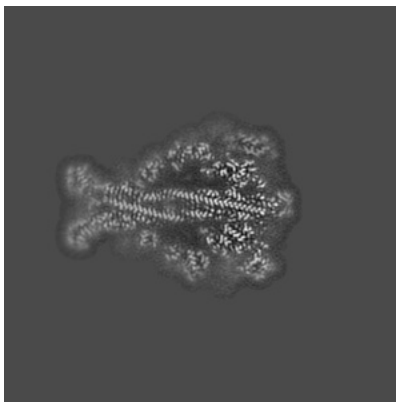
The images above show central slices of the map in three orthogonal directions.

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

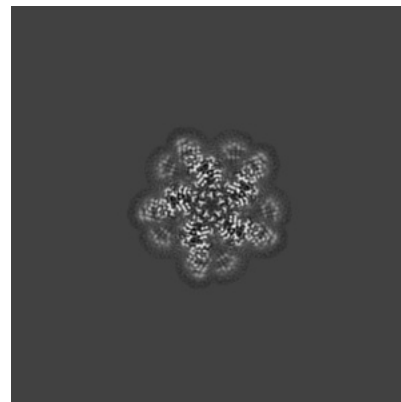
### 6.3.1 Primary map



X Index: 182



Y Index: 182



Z Index: 246

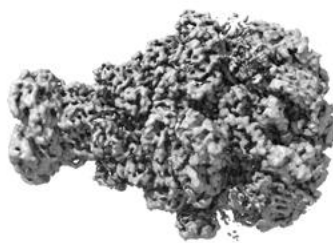
The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal surface views [i](#)

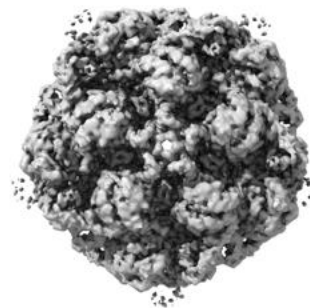
### 6.4.1 Primary map



X



Y



Z

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

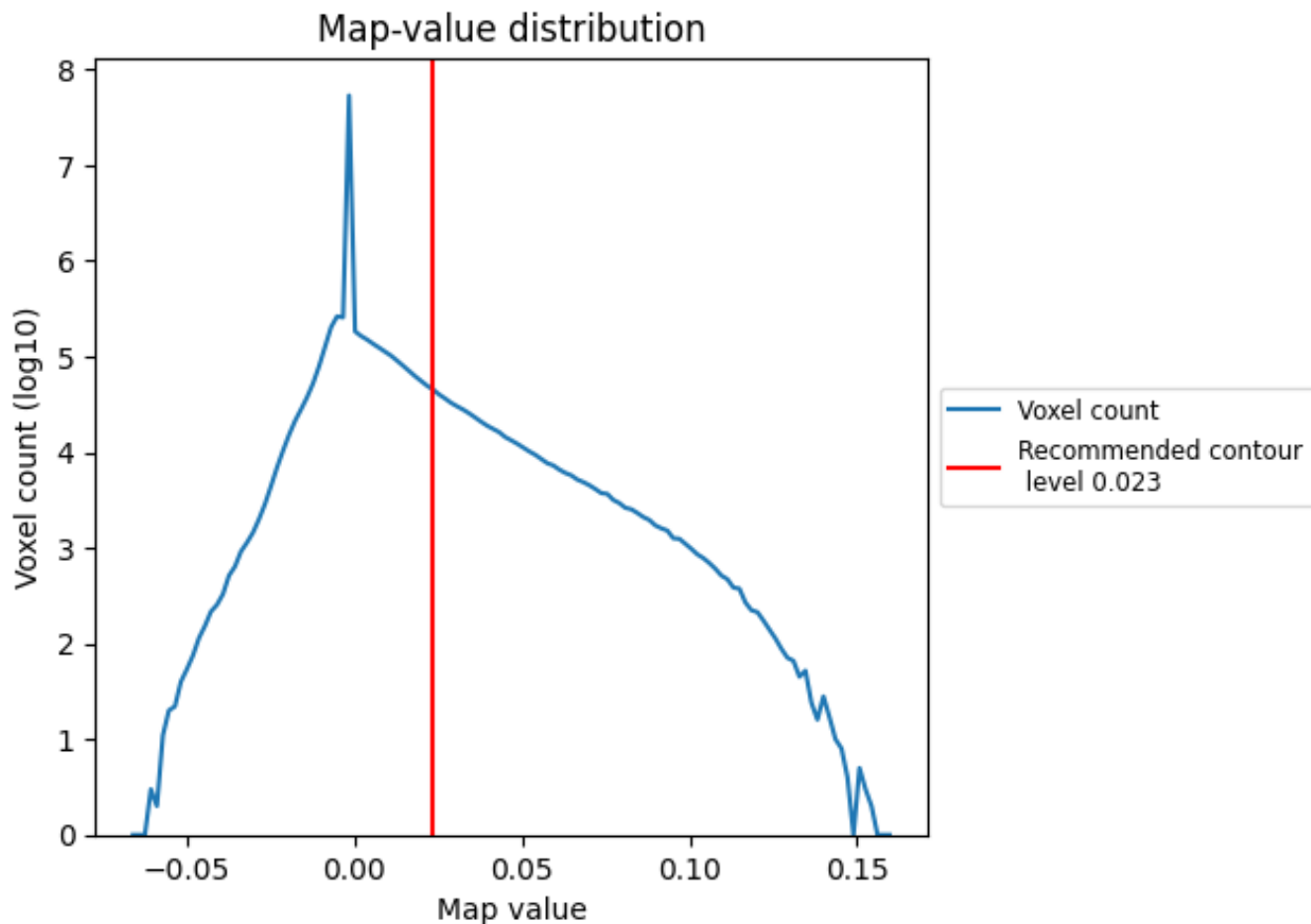
## 6.5 Mask visualisation

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

## 7 Map analysis [i](#)

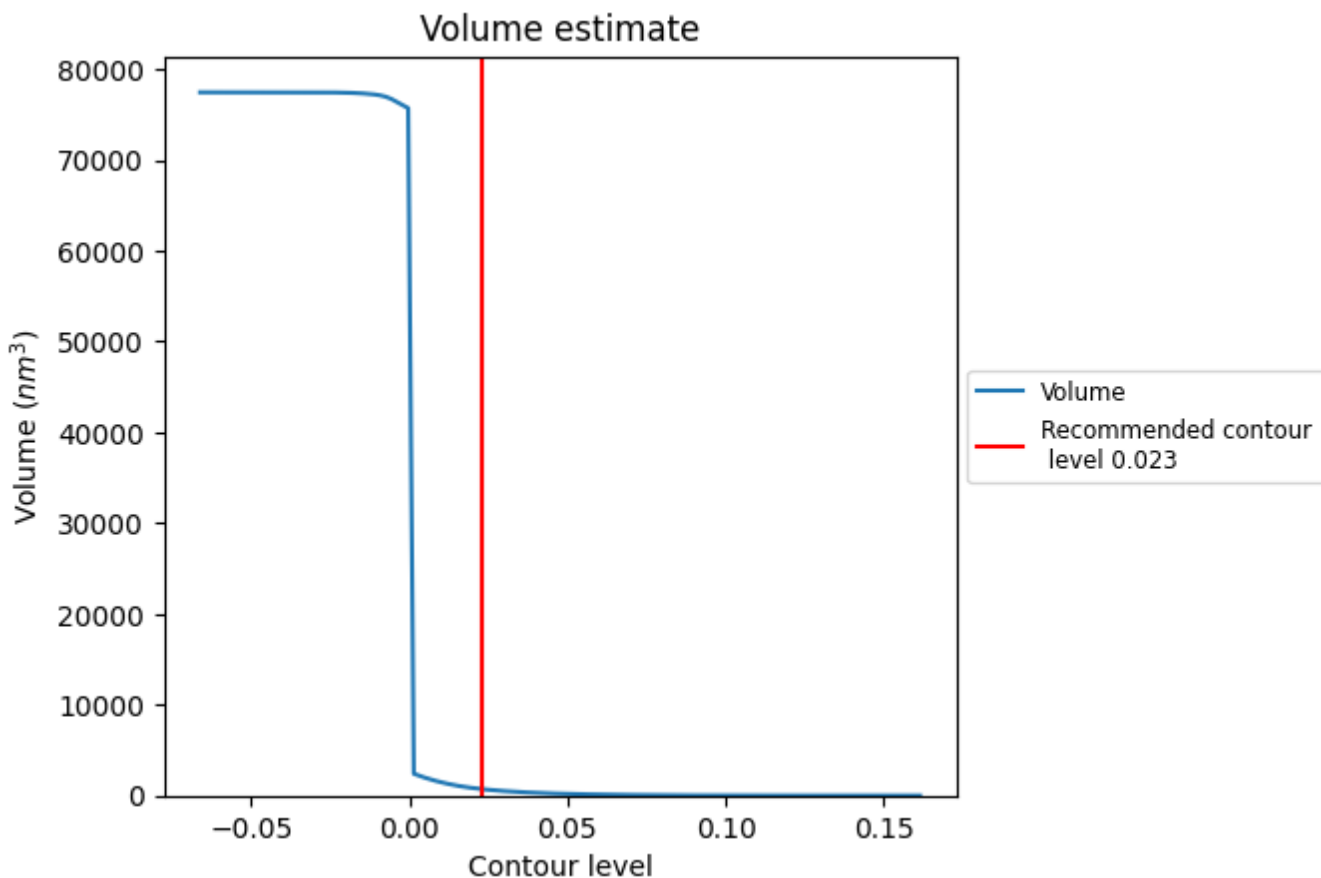
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



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

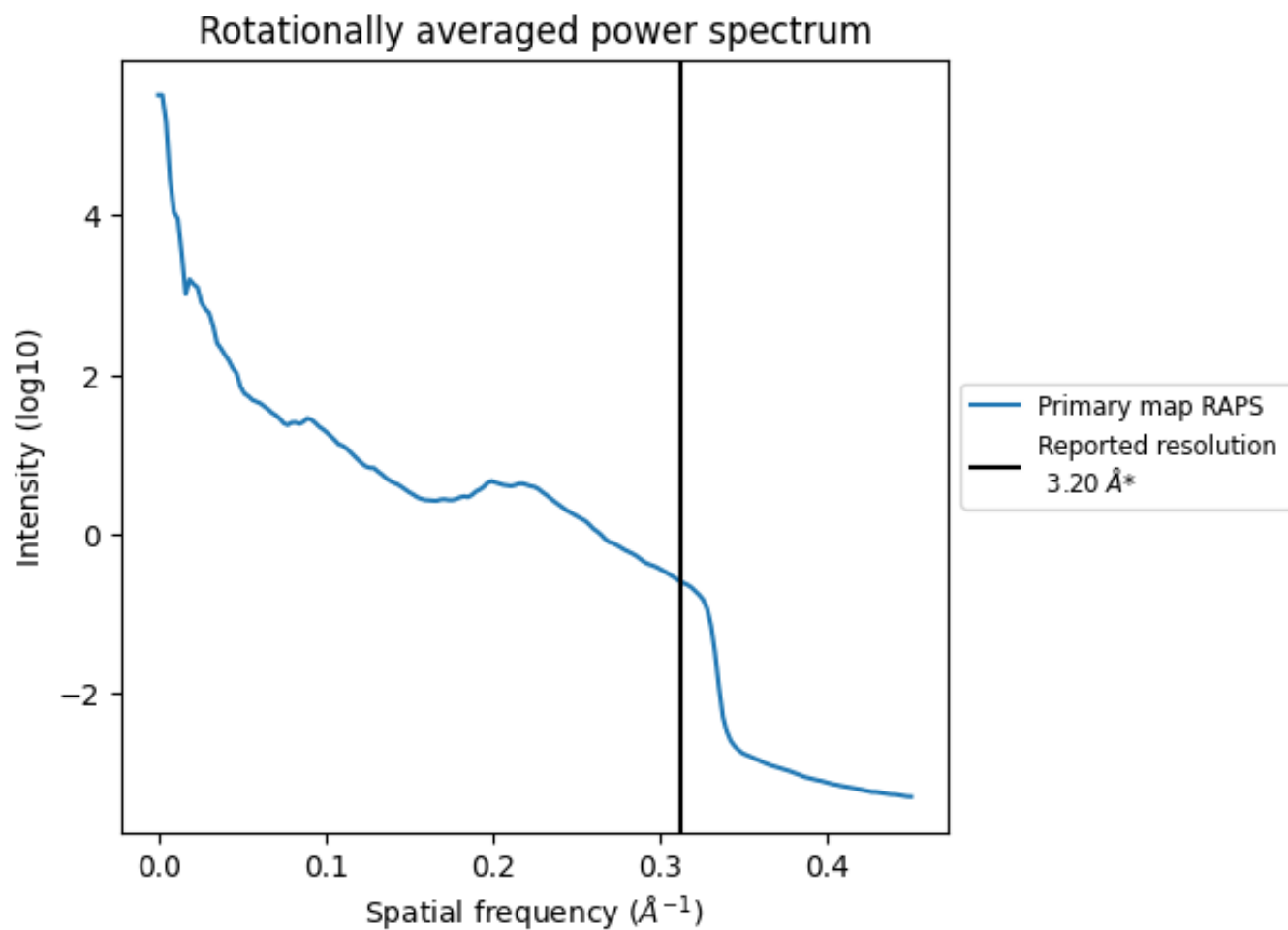
## 7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 712 nm<sup>3</sup>; 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  $0.312 \text{\AA}^{-1}$

## 8 Fourier-Shell correlation

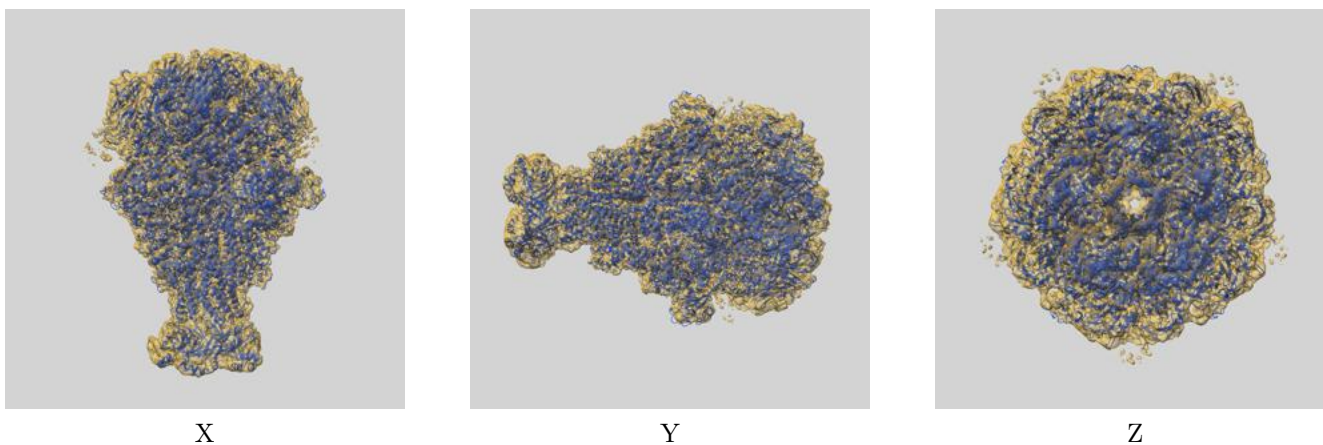
This section was not generated. No FSC curve or half-maps provided.



## 9 Map-model fit [i](#)

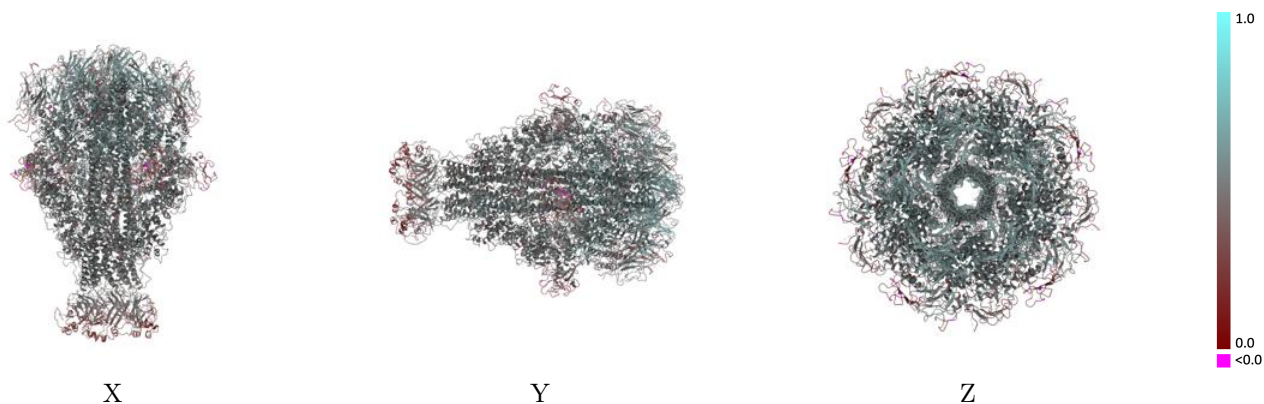
This section contains information regarding the fit between EMDB map EMD-10796 and PDB model 6YEW. Per-residue inclusion information can be found in section [3](#) on page [4](#).

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



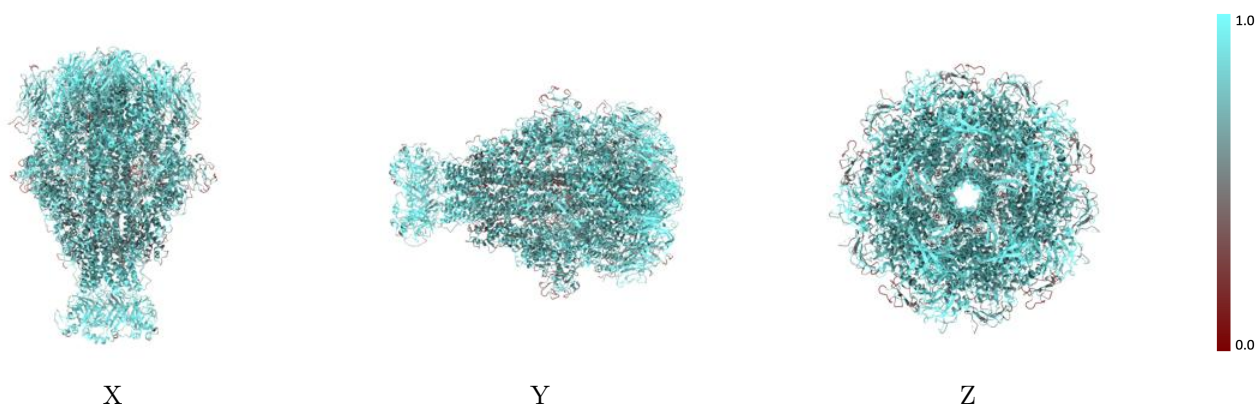
The images above show the 3D surface view of the map at the recommended contour level 0.023 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



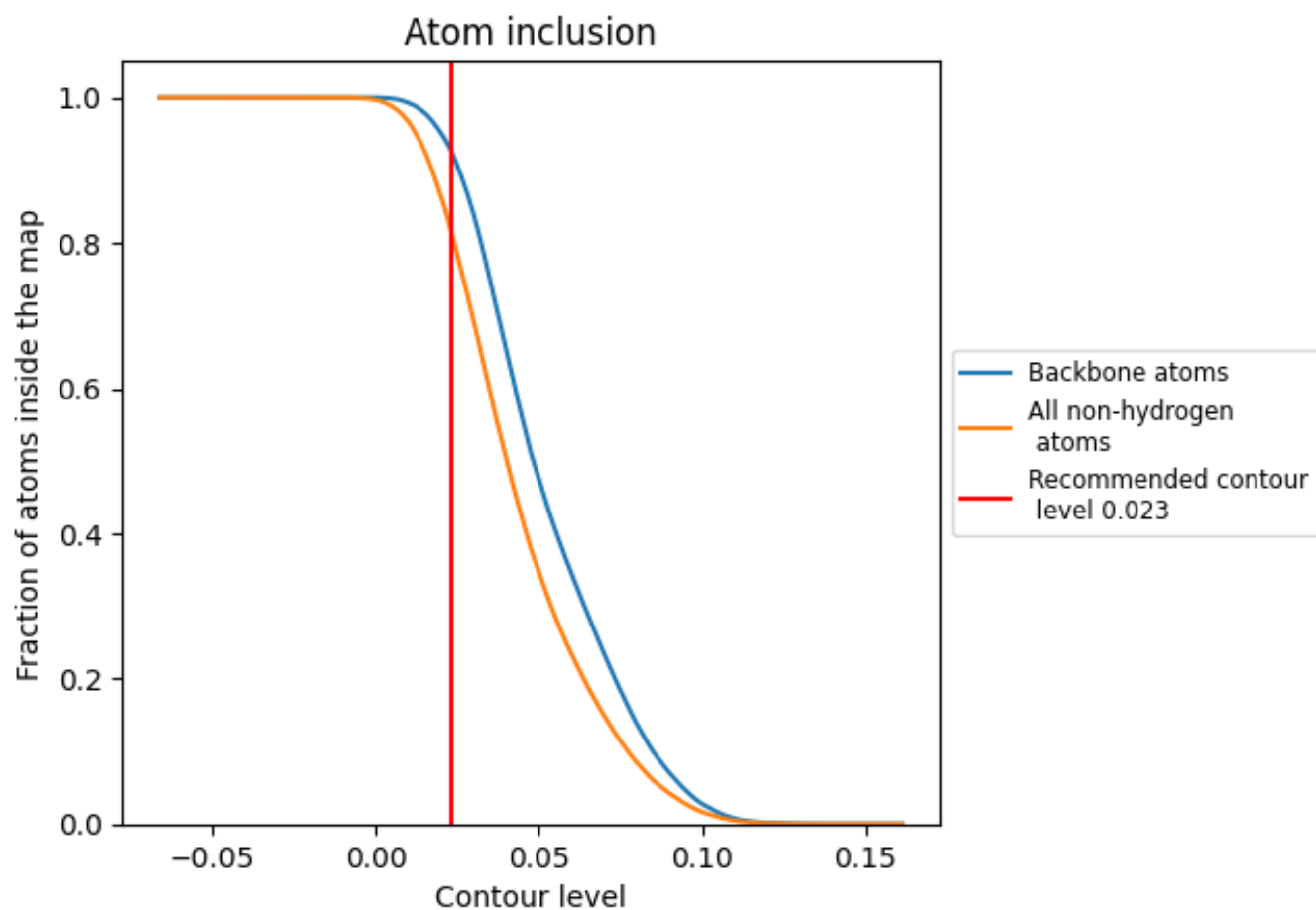
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



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













## 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	 0.8205	 0.4780
A	 0.8228	 0.4800
B	 0.8239	 0.4810
C	 0.8236	 0.4810
D	 0.8211	 0.4790
E	 0.8109	 0.4710

