



## Full wwPDB EM Validation Report ⓘ

Nov 29, 2022 – 10:08 AM JST

PDB ID : 7WLT  
EMDB ID : EMD-32592  
Title : the Curved Structure of mPIEZO1 in Lipid Bilayer  
Authors : Yang, X.; Lin, C.; Chen, X.; Li, S.; Li, X.; Xiao, B.  
Deposited on : 2022-01-13  
Resolution : 3.46 Å(reported)

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

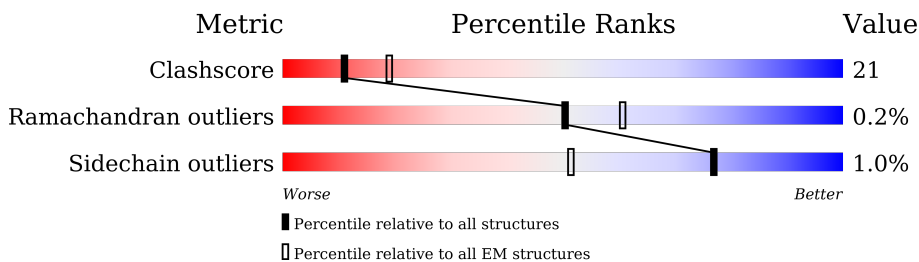
EMDB validation analysis : 0.0.1.dev43  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
MolProbity : 4.02b-467  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.3

# 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 3.46 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	2547	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">25%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red 25%, orange 36%, yellow 53%, green 69%, grey 100%);"></div> <div style="text-align: center;">36%</div> <div style="text-align: center;">17%</div> <div style="text-align: center;">47%</div> </div>
1	C	2547	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">25%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red 25%, orange 36%, yellow 52%, green 68%, grey 100%);"></div> <div style="text-align: center;">36%</div> <div style="text-align: center;">16%</div> <div style="text-align: center;">47%</div> </div>
1	E	2547	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">25%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red 25%, orange 36%, yellow 53%, green 69%, grey 100%);"></div> <div style="text-align: center;">36%</div> <div style="text-align: center;">17%</div> <div style="text-align: center;">47%</div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	PLX	A	2608	-	-	X	-
2	PLX	C	2609	-	-	X	-
2	PLX	E	2601	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	PEE	A	2606	-	-	X	-
3	PEE	C	2607	-	-	X	-
3	PEE	E	2608	-	-	X	-

## 2 Entry composition i

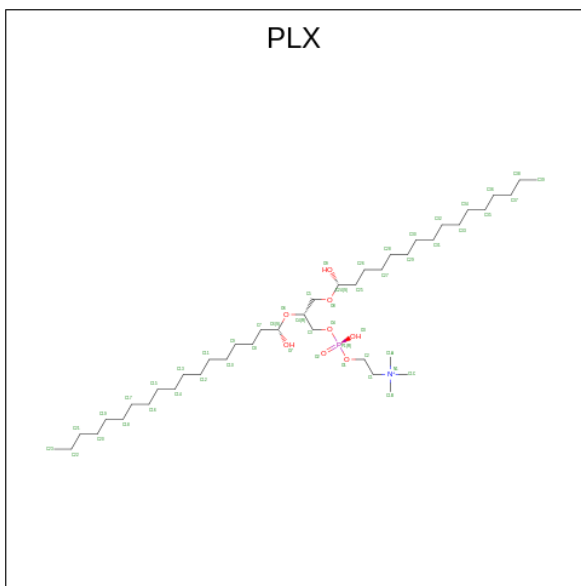
There are 4 unique types of molecules in this entry. The entry contains 33912 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Piezo-type mechanosensitive ion channel component 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	1353	10835	7108	1813	1849	65	0	0
1	C	1353	10835	7108	1813	1849	65	0	0
1	E	1353	10835	7108	1813	1849	65	0	0

- Molecule 2 is (9R,11S)-9-({[(1S)-1-HYDROXYHEXADECYL]OXY}METHYL)-2,2-DIMETHYL-5,7,10-TRIOXA-2LAMBDA 5 -AZA-6LAMBDA 5 -PHOSPHAOCTACOSANE-6,6,11-TRIOXOL (three-letter code: PLX) (formula: C<sub>42</sub>H<sub>89</sub>NO<sub>8</sub>P) (labeled as "Ligand of Interest" by depositor).



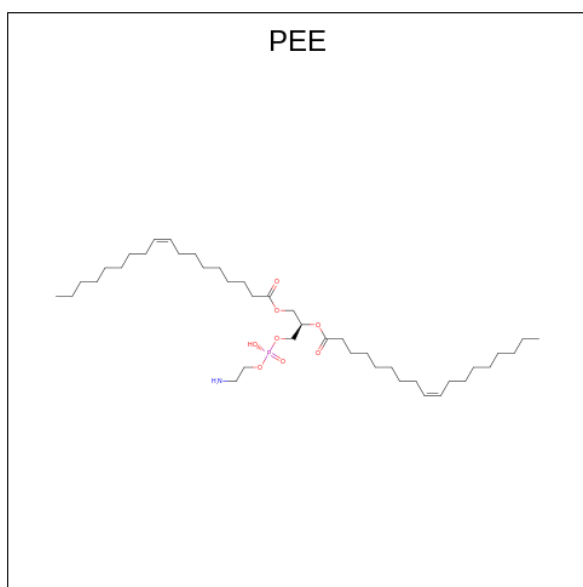
Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
2	A	1	364	294	7	56	7	0
2	A	1	364	294	7	56	7	0

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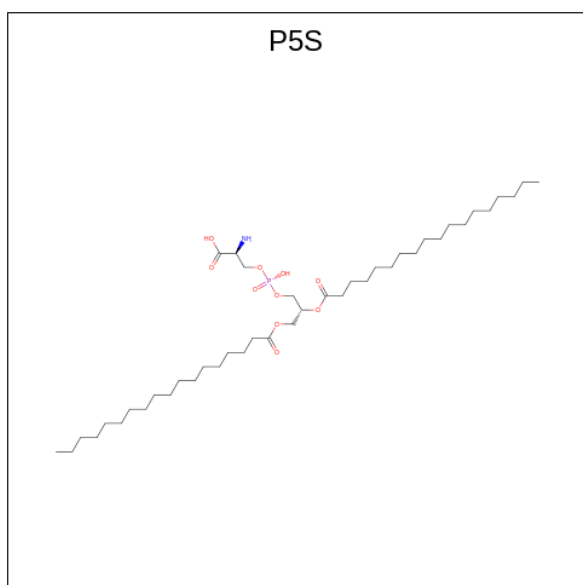
Mol	Chain	Residues	Atoms					AltConf
2	A	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	A	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	A	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	A	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	C	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	C	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	C	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	C	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	C	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	C	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	C	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	E	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	E	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	E	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	E	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	E	1	Total	C	N	O	P	0
			364	294	7	56	7	
2	E	1	Total	C	N	O	P	0
			364	294	7	56	7	

- Molecule 3 is 1,2-dioleoyl-sn-glycero-3-phosphoethanolamine (three-letter code: PEE) (formula:  $C_{41}H_{78}NO_8P$ ) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
3	A	1	51	41	1	8	1	0
3	C	1	51	41	1	8	1	0
3	E	1	51	41	1	8	1	0

- Molecule 4 is O-[(R)-{[(2R)-2,3-bis(octadecanoyloxy)propyl]oxy}(hydroxy)phosphoryl]-L-serine (three-letter code: P5S) (formula: C<sub>42</sub>H<sub>82</sub>NO<sub>10</sub>P) (labeled as "Ligand of Interest" by depositor).

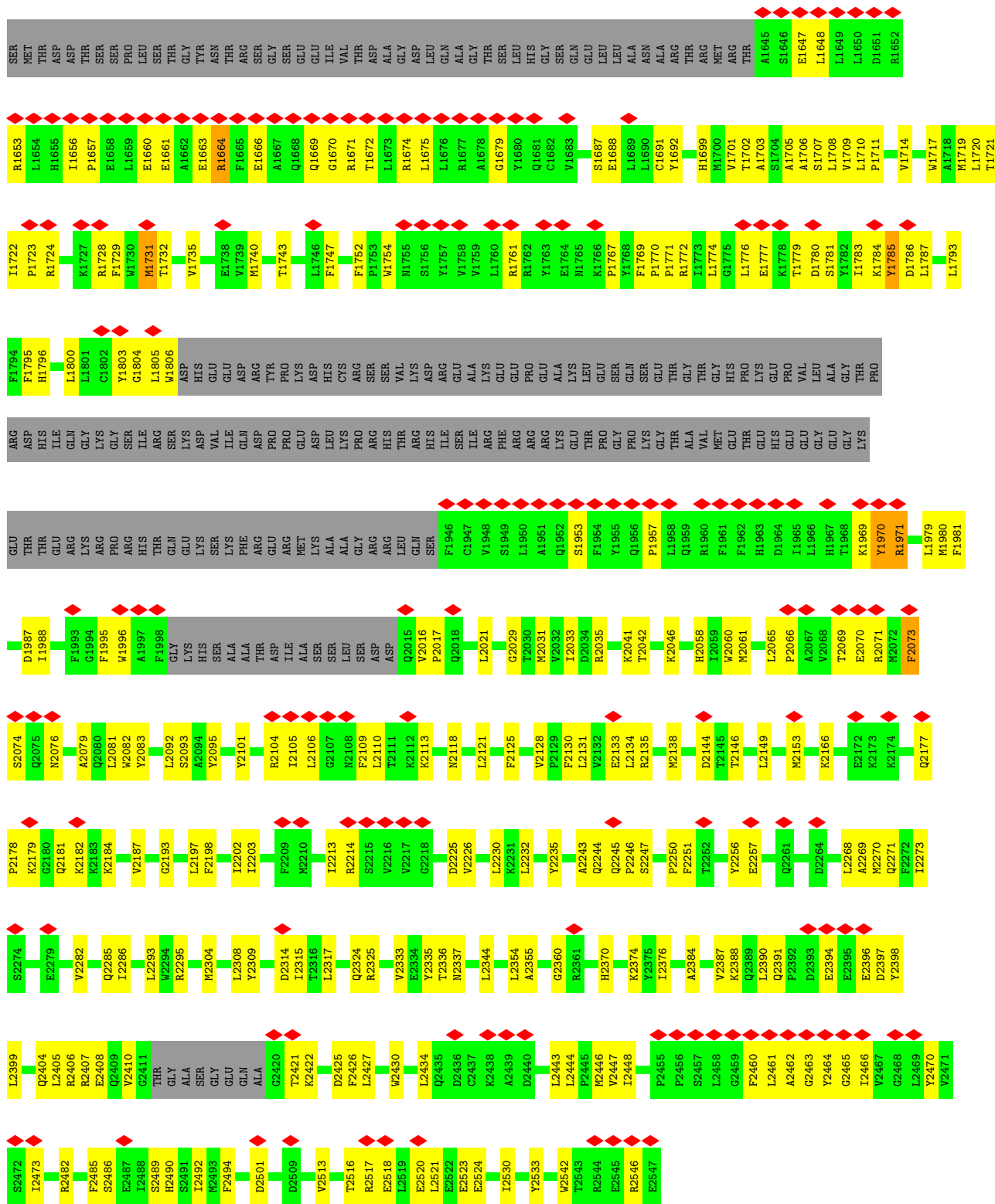


<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>					<b>AltConf</b>
4	A	1	Total 54	C 42	N 1	O 10	P 1	0
4	C	1	Total 54	C 42	N 1	O 10	P 1	0
4	E	1	Total 54	C 42	N 1	O 10	P 1	0

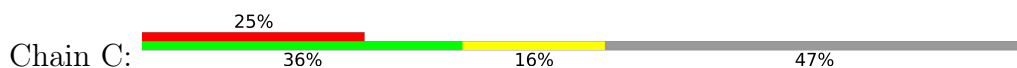








• Molecule 1: Piezo-type mechanosensitive ion channel component 1



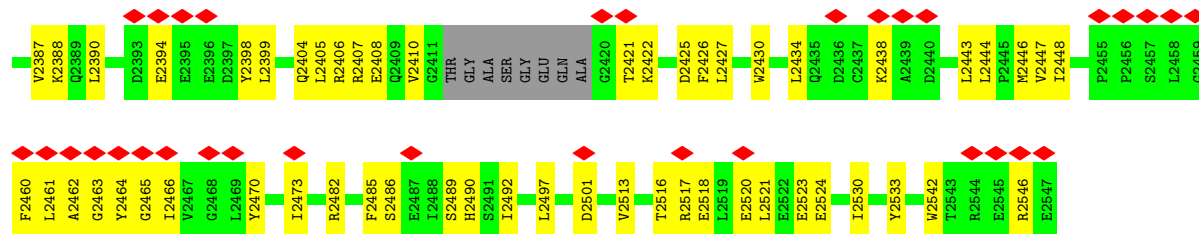


F1083	D1084	F1085	F1086	R1087	A1088	P1089	N1090	S1091	T1092	M1093	L1094	I1095	S1096	D1097	F1098	L1099	L1100	L1101	L1102	C1103	A1104	S1105	Q1106	Q1107	W1108	Q1109	W1110	F1111	S1112	A1113	E1114	R1115	T1116	E1117	E1118	W1119	Q1120	ARG	MET	ALA	GLY	ILE	ASN	THR	ASP	HIS	LEU	GLU	PRO	R1134	G1135	E1136	P1137	M1138	P1139	I1140	P1141	M1142
F1143	I1144	H1145	C1146	R1147	S1148	Y1149	L1150	D1151	M1152	L1153	K1154	V1155	A1156	V1157	F1158	R1159	Y1160	L1161	F1162	W1163	L1164	F1170	R1176	I1177	S1178	L1179	F1180	G1181	C1188	F1189	Y1190	L1191	F1194	G1195	T1196	E1197	T1197	L1198	L1199	M1264	M1265	T1266	D1268	R1267	R1268	R1269	Q1206	L1207	D1211	C1212	L1213	I1214	L1215	Y1216	M1217	N1218		
T1219	V1220	I1221	K1224	M1225	M1226	L1229	L1230	S1231	C1232	V1233	F1234	V1235	E1236	Q1237	M1238	Q1239	M1241	F1242	C1243	I1246	F1249	S1250	L1251	V1252	C1253	L1254	V1255	K1256	G1257	Y1258	Y1259	D1260	P1261	E1263	M1264	M1265	T1266	R1267	D1268	R1269	C1271	L1272	L1273	P1274	V1275	E1276	E1277	A1278	I1279	I1281	W1282							
D1283	L1290	L1291	L1292	Q1293	R1294	R1295	I1296	F1297	L1298	S1299	H1300	Y1301	F1302	L1303	H1304	V1305	S1306	A1307	D1308	L1309	K1310	A1311	L1314	Q1315	A1316	R1318	G1319	F1320	Y1323	M1327	L1328	K1329	S1330	I1331	M1332	F1333	H1334	R1335	Q1336	I1337	E1338	E1339	K1340	S1341	L1342	A1343	Q1344	L1345	K1346	R1347	Q1348	M1349	K1350	R1351				
I1352	R1353	A1354	K1355	Q1356	E1357	K1358	Y1359	R1360	Q1361	S1362	Q1363	A1364	S1365	ARG	GLY	LEU	GLN	GLN	SER	LYS	ASP	PRO	GLN	ALA	ASP	PRO	SER	GLY	LEU	GLN	THR	THR	PRO	PRO	ARG	F1333	H1334	R1335	Q1336	I1337	E1338	E1339	K1340	S1341	L1342	A1343	Q1344	L1345	K1346	R1347	Q1348	M1349	K1350					
Y1412	F1413	E1416	S1417	D1418	S1419	E1420	E1421	GLU	GLU	GLU	ALA	LEU	PRO	GLU	ASP	PRO	ARG	PRO	ALA	ALA	GLN	SER	PHE	GLN	MET	ALA	TTR	GLN	ALA	VAL	THR	VAL	LEU	ARG	GLN	ALA	ALA	GLN	GLN	GLN	ALA	ALA	GLN	GLY	GLY													
ASP	LEU	ASN	PRO	ASP	VAL	GLU	PRO	VAL	VAL	PRO	GLU	ASP	ASP	SER	H1493	M1494	M1495	Q1496	V1498	L1499	S1500	T1501	M1502	Q1503	F1504	L1505	W1506	V1507	L1508	G1509	Q1510	A1511	T1512	V1513	D1514	G1515	L1516	T1517	R1518	W1519	L1520	R1521	A1522	F1523	T1524	K1525	H1526	R1528	T1529	M1530	S1531	D1532						
V1533	L1534	C1535	A1536	R1537	E1538	Y1539	L1540	L1541	T1542	Q1543	E1544	L1545	L1546	R1547	V1548	G1549	E1550	V1551	R1552	L1553	G1554	V1555	L1556	D1557	Q1558	L1559	TTR	VAL	GLY	GLU	ASP	GLU	ALA	GLN	GLN	GLU	THR	THR	ARG	ASP	PRO	PRO	GLY	GLY	GLY	ALA	ALA	GLU	GLU	PRO	LEU	SER						
SER	MET	THR	ASP	THR	ASP	SER	PRO	LEU	LEU	THR	GLY	TTR	ASN	THR	ARG	SER	GLY	SER	GLU	GLU	ILE	VAL	THR	ASP	ALA	GLY	ASP	LEU	GLN	ALA	GLY	THR	LEU	HIS	GLY	ASN	ALA	ALA	ARG	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR	THR					
R1653	L1654	H1655	I1656	P1657	E1658	L1659	E1660	E1661	A1662	E1663	R1664	F1665	E1666	A1667	Q1668	Q1669	G1670	R1671	T1672	L1673	R1674	L1675	L1676	R1677	A1678	G1679	Y1680	Q1681	C1682	V1683	S1687	E1688	L1689	L1690	C1691	Y1692	H1699	M1700	V1701	T1702	A1703	A1706	S1707	L1708	V1709	L1710	P1711	V1714	W1717	M1719	L1720	T1721	I1722					
P1723	R1724	K1727	R1728	F1729	W1730	M1731	T1732	V1735	E1738	V1739	M1740	T1743	L1746	F1747	F1752	P1753	W1754	N1755	S1756	Y1757	V1758	V1759	L1760	R1761	R1762	Y1763	E1764	N1765	K1766	Y1768	F1769	P1770	P1771	R1772	I1773	L1774	G1775	L1776	E1777	K1778	T1779	D1780	S1781	Y1782	I1783	K1784	Y1785	D1786	L1787	L1793	F1794							
F1795	H1796	L1800	L1801	C1802	Y1803	G1804	L1805	W1806	ASP	HIS	ASP	GLU	GLU	ILE	GLN	ASP	PRO	TTR	PRO	PRO	GLY	ASP	GLU	LEU	CYS	PRO	ARG	ARG	SER	VAL	THR	LYS	ASP	GLU	ALA	LEU	LEU	GLY	GLY	PRO	PRO	VAL	VAL	LEU	ALA	GLY	THR	THR	PRO	ARG								
ASP	HIS	ILE	GLN	GLY	LYS	GLY	SER	ILE	ARG	SER	LYS	ASP	VAL	ILE	GLN	ASP	PRO	TTR	PRO	PRO	GLY	ASP	GLU	LEU	CYS	PRO	ARG	ARG	SER	VAL	THR	LYS	ASP	GLU	ALA	LEU	LEU	GLY	GLY	PRO	PRO	VAL	VAL	LEU	ALA	GLY	THR	THR	PRO	ARG								











## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	209166	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	50	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2400	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.089	Depositor
Minimum map value	-0.045	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.018	Depositor
Map size ( $\text{\AA}$ )	395.28003, 395.28003, 395.28003	wwPDB
Map dimensions	360, 360, 360	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.098, 1.098, 1.098	Depositor

## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: PEE, PLX, P5S

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	0.52	0/11108	0.58	0/15083
1	C	0.52	0/11108	0.58	0/15083
1	E	0.52	0/11108	0.58	0/15083
All	All	0.52	0/33324	0.58	0/45249

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 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	10835	0	10713	437	0
1	C	10835	0	10713	420	0
1	E	10835	0	10713	434	0
2	A	364	0	616	90	0
2	C	364	0	616	94	0
2	E	364	0	616	92	0
3	A	51	0	82	41	0
3	C	51	0	82	41	0
3	E	51	0	82	40	0
4	A	54	0	80	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	C	54	0	80	3	0
4	E	54	0	80	3	0
All	All	33912	0	34473	1403	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 21.

All (1403) 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:C:2197:LEU:CD1	2:C:2609:PLX:H393	1.37	1.52
1:E:2197:LEU:CD1	2:E:2601:PLX:H393	1.37	1.49
1:A:2197:LEU:CD1	2:A:2608:PLX:H393	1.38	1.48
1:C:2197:LEU:HD13	2:C:2609:PLX:C39	1.49	1.41
1:E:2197:LEU:HD13	2:E:2601:PLX:C39	1.49	1.40
1:A:2197:LEU:HD13	2:A:2608:PLX:C39	1.50	1.40
1:C:2197:LEU:HD21	2:C:2609:PLX:C37	1.76	1.14
1:E:2197:LEU:HD21	2:E:2601:PLX:C37	1.76	1.14
1:A:2197:LEU:HD21	2:A:2608:PLX:C37	1.77	1.13
1:C:1735:VAL:CG1	2:C:2604:PLX:H131	1.79	1.13
1:E:2197:LEU:HD21	2:E:2601:PLX:H372	1.16	1.12
1:E:1735:VAL:CG1	2:E:2605:PLX:H131	1.79	1.12
1:E:1735:VAL:HG11	2:E:2605:PLX:H131	1.12	1.12
1:A:1735:VAL:CG1	2:A:2603:PLX:H131	1.79	1.11
1:C:2485:PHE:CD1	1:E:2153:MET:HE1	1.85	1.11
1:A:2197:LEU:HD21	2:A:2608:PLX:H372	1.17	1.11
1:A:1735:VAL:HG11	2:A:2603:PLX:H131	1.12	1.10
1:C:2197:LEU:CD2	2:C:2609:PLX:C37	2.29	1.10
1:E:2197:LEU:CD2	2:E:2601:PLX:C37	2.29	1.10
1:A:2197:LEU:CD2	2:A:2608:PLX:C37	2.30	1.09
1:A:2153:MET:HE1	1:E:2485:PHE:CD1	1.86	1.08
1:C:2197:LEU:HD21	2:C:2609:PLX:H372	1.16	1.08
1:C:1735:VAL:HG11	2:C:2604:PLX:H131	1.12	1.07
1:A:2485:PHE:CD1	1:C:2153:MET:HE3	1.90	1.04
2:C:2609:PLX:H1A3	1:E:2042:THR:HB	1.41	1.03
1:C:1502:MET:SD	1:C:1503:GLN:NE2	2.31	1.02
1:E:1502:MET:SD	1:E:1503:GLN:NE2	2.31	1.02
1:A:1502:MET:SD	1:A:1503:GLN:NE2	2.31	1.02
1:C:2197:LEU:CD2	2:C:2609:PLX:H371	1.90	1.02
1:A:2042:THR:HB	2:E:2601:PLX:H1A3	1.41	1.01
2:A:2608:PLX:H1A3	1:C:2042:THR:HB	1.41	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2197:LEU:CD2	2:E:2601:PLX:H371	1.90	1.00
2:A:2608:PLX:H381	2:A:2608:PLX:H211	1.00	1.00
3:E:2608:PEE:H40	3:E:2608:PEE:H81	1.44	0.99
1:E:2193:GLY:O	1:E:2197:LEU:HD23	1.63	0.99
3:C:2607:PEE:H81	3:C:2607:PEE:H40	1.44	0.99
2:E:2601:PLX:H211	2:E:2601:PLX:C38	1.93	0.99
2:C:2609:PLX:H381	2:C:2609:PLX:H211	1.00	0.98
1:C:2193:GLY:O	1:C:2197:LEU:HD23	1.63	0.98
1:A:2197:LEU:CD2	2:A:2608:PLX:H371	1.91	0.98
2:C:2609:PLX:H211	2:C:2609:PLX:C38	1.93	0.98
2:E:2601:PLX:H211	2:E:2601:PLX:H381	1.00	0.98
2:A:2608:PLX:H211	2:A:2608:PLX:C38	1.93	0.97
2:E:2601:PLX:H381	2:E:2601:PLX:C21	1.94	0.97
2:A:2608:PLX:H381	2:A:2608:PLX:C21	1.94	0.97
1:A:1735:VAL:HG11	2:A:2603:PLX:C13	1.95	0.96
1:A:2193:GLY:O	1:A:2197:LEU:HD23	1.63	0.96
3:C:2607:PEE:C46	3:C:2607:PEE:H68	1.95	0.96
3:A:2606:PEE:H40	3:A:2606:PEE:H81	1.44	0.96
3:E:2608:PEE:C46	3:E:2608:PEE:H68	1.95	0.96
1:C:1735:VAL:HG11	2:C:2604:PLX:C13	1.95	0.96
3:C:2607:PEE:H68	3:C:2607:PEE:H82	1.48	0.96
2:C:2609:PLX:H381	2:C:2609:PLX:C21	1.94	0.96
1:E:1735:VAL:HG11	2:E:2605:PLX:C13	1.95	0.95
3:A:2606:PEE:C46	3:A:2606:PEE:H68	1.95	0.95
3:E:2608:PEE:H68	3:E:2608:PEE:H82	1.48	0.94
1:C:2485:PHE:CD1	1:E:2153:MET:CE	2.51	0.94
1:C:2197:LEU:CD2	2:C:2609:PLX:H372	1.94	0.94
3:A:2606:PEE:H68	3:A:2606:PEE:H82	1.48	0.93
1:A:2153:MET:CE	1:E:2485:PHE:CD1	2.52	0.92
1:A:2485:PHE:CD1	1:C:2153:MET:CE	2.51	0.92
1:E:2197:LEU:CD2	2:E:2601:PLX:H372	1.94	0.92
1:A:2197:LEU:CD2	2:A:2608:PLX:H372	1.95	0.92
3:E:2608:PEE:H40	3:E:2608:PEE:C46	2.00	0.92
1:A:2295:ARG:HH21	1:C:2295:ARG:HD2	1.32	0.92
3:C:2607:PEE:H40	3:C:2607:PEE:C47	2.01	0.91
1:A:2295:ARG:HD2	1:E:2295:ARG:HH21	1.33	0.91
1:C:2295:ARG:HH21	1:E:2295:ARG:HD2	1.32	0.91
3:A:2606:PEE:H40	3:A:2606:PEE:C46	2.00	0.91
3:C:2607:PEE:H40	3:C:2607:PEE:C46	2.00	0.91
3:E:2608:PEE:H68	3:E:2608:PEE:C47	2.01	0.91
3:A:2606:PEE:H40	3:A:2606:PEE:C47	2.01	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:2608:PEE:H40	3:E:2608:PEE:C47	2.01	0.90
1:E:2197:LEU:HD22	2:E:2601:PLX:H371	1.52	0.90
1:A:2485:PHE:CE1	1:C:2153:MET:HE1	2.06	0.90
2:A:2603:PLX:H222	2:A:2604:PLX:H211	1.53	0.90
2:E:2605:PLX:H222	2:E:2606:PLX:H211	1.53	0.90
3:A:2606:PEE:H68	3:A:2606:PEE:C47	2.01	0.89
3:C:2607:PEE:H68	3:C:2607:PEE:C47	2.01	0.89
1:C:863:CYS:SG	1:C:915:ARG:NH1	2.46	0.89
1:C:2197:LEU:HD22	2:C:2609:PLX:H371	1.52	0.88
2:E:2601:PLX:H192	2:E:2601:PLX:H361	1.55	0.88
1:A:2042:THR:HG22	2:E:2601:PLX:H1A2	1.55	0.88
1:A:2153:MET:CE	1:E:2485:PHE:CE1	2.57	0.88
1:E:863:CYS:SG	1:E:915:ARG:NH1	2.46	0.88
1:C:2485:PHE:CE1	1:E:2153:MET:CE	2.57	0.88
2:E:2601:PLX:H361	2:E:2601:PLX:H162	1.54	0.88
2:C:2604:PLX:H222	2:C:2605:PLX:H211	1.53	0.88
1:A:2197:LEU:HD22	2:A:2608:PLX:H371	1.53	0.88
1:A:2485:PHE:CE1	1:C:2153:MET:CE	2.57	0.88
1:A:863:CYS:SG	1:A:915:ARG:NH1	2.46	0.87
2:A:2608:PLX:H361	2:A:2608:PLX:H162	1.54	0.87
1:C:1246:ILE:HG13	1:C:1251:LEU:HB2	1.57	0.87
2:C:2609:PLX:H1A2	1:E:2042:THR:HG22	1.55	0.87
2:C:2609:PLX:H361	2:C:2609:PLX:H162	1.54	0.87
1:A:2197:LEU:HD22	2:A:2608:PLX:C37	2.06	0.86
1:C:1722:ILE:HG23	1:C:1723:PRO:HD2	1.57	0.86
2:A:2608:PLX:H361	2:A:2608:PLX:H192	1.55	0.86
2:A:2608:PLX:H1A2	1:C:2042:THR:HG22	1.55	0.86
1:E:1246:ILE:HG13	1:E:1251:LEU:HB2	1.57	0.86
1:A:1246:ILE:HG13	1:A:1251:LEU:HB2	1.57	0.86
3:C:2607:PEE:H40	3:C:2607:PEE:C45	2.06	0.86
3:A:2606:PEE:H40	3:A:2606:PEE:C45	2.06	0.85
1:A:1722:ILE:HG23	1:A:1723:PRO:HD2	1.57	0.85
2:C:2609:PLX:H361	2:C:2609:PLX:H192	1.55	0.85
1:E:1722:ILE:HG23	1:E:1723:PRO:HD2	1.57	0.85
3:A:2606:PEE:H41	3:A:2606:PEE:H74	1.59	0.84
3:E:2608:PEE:H40	3:E:2608:PEE:C45	2.06	0.84
1:C:2197:LEU:CD1	2:C:2609:PLX:C39	2.29	0.84
1:E:2197:LEU:HD22	2:E:2601:PLX:C37	2.05	0.83
3:C:2607:PEE:H74	3:C:2607:PEE:H41	1.59	0.83
3:E:2608:PEE:H74	3:E:2608:PEE:H41	1.59	0.83
1:A:2042:THR:HB	2:E:2601:PLX:C1A	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2179:LYS:HD3	1:C:1402:ASP:HB3	1.62	0.82
3:C:2607:PEE:H81	3:C:2607:PEE:C24	2.09	0.82
1:A:1702:THR:HB	1:A:1784:LYS:HD2	1.62	0.82
1:A:2153:MET:HE2	1:E:2485:PHE:CE1	2.14	0.82
1:E:1002:ILE:HG23	1:E:1225:ASN:HD22	1.44	0.82
1:E:1702:THR:HB	1:E:1784:LYS:HD2	1.62	0.82
1:A:2042:THR:CB	2:E:2601:PLX:H1A3	2.10	0.82
3:A:2606:PEE:H81	3:A:2606:PEE:C24	2.09	0.82
1:C:2485:PHE:CE1	1:E:2153:MET:HE2	2.15	0.81
3:E:2608:PEE:H81	3:E:2608:PEE:C24	2.09	0.81
2:C:2609:PLX:H1A3	1:E:2042:THR:CB	2.10	0.81
2:A:2608:PLX:H1A3	1:C:2042:THR:CB	2.10	0.81
2:A:2608:PLX:C1A	1:C:2042:THR:HB	2.09	0.81
1:C:1107:GLN:HE22	1:C:1111:PHE:HD1	1.26	0.81
1:E:2035:ARG:HD2	3:E:2608:PEE:O5	1.81	0.81
1:A:2042:THR:CG2	2:E:2601:PLX:C1A	2.59	0.81
1:C:1002:ILE:HG23	1:C:1225:ASN:HD22	1.44	0.81
1:C:1702:THR:HB	1:C:1784:LYS:HD2	1.62	0.81
2:C:2609:PLX:C1A	1:E:2042:THR:HB	2.09	0.81
1:E:1107:GLN:HE22	1:E:1111:PHE:HD1	1.27	0.81
1:A:2197:LEU:HD11	2:A:2608:PLX:H393	1.60	0.81
2:C:2609:PLX:C1A	1:E:2042:THR:CG2	2.59	0.81
1:E:2518:GLU:OE1	1:E:2518:GLU:N	2.14	0.80
1:A:1345:LEU:HB2	1:A:2104:ARG:HH11	1.47	0.80
1:A:2518:GLU:N	1:A:2518:GLU:OE1	2.14	0.80
2:C:2604:PLX:C22	2:C:2605:PLX:H211	2.12	0.80
1:A:1002:ILE:HG23	1:A:1225:ASN:HD22	1.44	0.80
1:C:2179:LYS:HD3	1:E:1402:ASP:HB3	1.63	0.80
1:C:2518:GLU:N	1:C:2518:GLU:OE1	2.14	0.80
1:E:2197:LEU:HD11	2:E:2601:PLX:H393	1.59	0.80
2:A:2608:PLX:C1A	1:C:2042:THR:CG2	2.59	0.80
1:E:2197:LEU:HD22	2:E:2601:PLX:H392	1.64	0.80
1:E:2197:LEU:CD1	2:E:2601:PLX:C39	2.28	0.80
1:C:2035:ARG:HD2	3:C:2607:PEE:O5	1.81	0.79
2:E:2605:PLX:C22	2:E:2606:PLX:H211	2.12	0.79
1:A:1402:ASP:HB3	1:E:2179:LYS:HD3	1.62	0.79
1:A:2293:LEU:HD11	1:A:2427:LEU:HD23	1.64	0.79
2:A:2603:PLX:C22	2:A:2604:PLX:H211	2.12	0.79
1:A:2035:ARG:HD2	3:A:2606:PEE:O5	1.81	0.79
1:A:2197:LEU:HD22	2:A:2608:PLX:H392	1.65	0.78
1:C:2197:LEU:HD22	2:C:2609:PLX:C37	2.04	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1107:GLN:HE22	1:A:1111:PHE:HD1	1.26	0.78
1:E:2293:LEU:HD11	1:E:2427:LEU:HD23	1.64	0.78
1:C:2485:PHE:CE1	1:E:2153:MET:HE1	2.18	0.78
1:C:2197:LEU:HD22	2:C:2609:PLX:H392	1.64	0.78
1:C:2293:LEU:HD11	1:C:2427:LEU:HD23	1.64	0.78
1:E:1345:LEU:HB2	1:E:2104:ARG:HH11	1.47	0.78
1:C:1345:LEU:HB2	1:C:2104:ARG:HH11	1.47	0.77
1:E:2197:LEU:HA	2:E:2601:PLX:H392	1.67	0.77
1:A:2197:LEU:CD1	2:A:2608:PLX:C39	2.30	0.77
1:C:2387:VAL:HG11	1:C:2390:LEU:HD23	1.66	0.77
1:E:2387:VAL:HG11	1:E:2390:LEU:HD23	1.66	0.77
3:E:2608:PEE:H68	3:E:2608:PEE:C45	2.12	0.77
1:C:2197:LEU:HD11	2:C:2609:PLX:H393	1.60	0.76
1:A:2153:MET:HE1	1:E:2485:PHE:CE1	2.19	0.76
1:A:2387:VAL:HG11	1:A:2390:LEU:HD23	1.66	0.76
1:C:2197:LEU:HA	2:C:2609:PLX:H392	1.66	0.76
1:C:2243:ALA:HB1	1:C:2247:SER:HB2	1.68	0.76
1:A:2243:ALA:HB1	1:A:2247:SER:HB2	1.68	0.76
1:A:2197:LEU:HA	2:A:2608:PLX:H392	1.67	0.75
1:E:2542:TRP:O	1:E:2546:ARG:NH2	2.20	0.75
1:E:2197:LEU:HD22	2:E:2601:PLX:C39	2.17	0.75
1:E:2243:ALA:HB1	1:E:2247:SER:HB2	1.68	0.74
1:C:2295:ARG:NH2	1:E:2295:ARG:HD2	2.02	0.74
1:C:1743:THR:HG22	1:C:1776:LEU:HD11	1.69	0.74
1:A:2042:THR:HG22	2:E:2601:PLX:C1A	2.18	0.74
1:A:2197:LEU:HD22	2:A:2608:PLX:C39	2.18	0.74
1:A:2295:ARG:NH2	1:C:2295:ARG:HD2	2.02	0.74
2:C:2609:PLX:H1A3	1:E:2042:THR:CG2	2.18	0.74
2:A:2608:PLX:H1A3	1:C:2042:THR:CG2	2.18	0.74
1:C:2542:TRP:O	1:C:2546:ARG:NH2	2.20	0.74
1:A:2042:THR:CG2	2:E:2601:PLX:H1A3	2.18	0.74
1:C:2197:LEU:HD22	2:C:2609:PLX:C39	2.17	0.73
3:C:2607:PEE:H68	3:C:2607:PEE:C45	2.12	0.73
2:C:2609:PLX:C1A	1:E:2042:THR:HG22	2.18	0.73
1:A:2542:TRP:O	1:A:2546:ARG:NH2	2.20	0.73
1:E:1743:THR:HG22	1:E:1776:LEU:HD11	1.69	0.73
1:A:1743:THR:HG22	1:A:1776:LEU:HD11	1.69	0.73
1:A:2029:GLY:O	1:A:2033:ILE:HD12	1.89	0.73
1:C:1234:PHE:HE1	1:C:1246:ILE:HD12	1.54	0.73
2:A:2608:PLX:C1A	1:C:2042:THR:HG22	2.18	0.73
1:E:2069:THR:HG22	1:E:2070:GLU:H	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:2608:PLX:H22	1:C:2042:THR:HG21	1.71	0.73
1:E:2235:TYR:CD2	1:E:2304:MET:HG3	2.24	0.73
2:A:2608:PLX:C16	2:A:2608:PLX:H341	2.19	0.73
2:E:2601:PLX:H162	2:E:2601:PLX:C36	2.19	0.73
1:A:2042:THR:HG21	2:E:2601:PLX:H22	1.71	0.72
1:A:2069:THR:HG22	1:A:2070:GLU:H	1.54	0.72
1:C:2235:TYR:CD2	1:C:2304:MET:HG3	2.24	0.72
1:A:2235:TYR:CD2	1:A:2304:MET:HG3	2.24	0.72
1:C:2325:ARG:NH1	1:C:2336:THR:OG1	2.22	0.72
1:E:1234:PHE:HE1	1:E:1246:ILE:HD12	1.54	0.72
1:C:2029:GLY:O	1:C:2033:ILE:HD12	1.89	0.72
1:E:2325:ARG:NH1	1:E:2336:THR:OG1	2.22	0.72
1:A:2295:ARG:HD2	1:E:2295:ARG:NH2	2.03	0.72
2:A:2608:PLX:H162	2:A:2608:PLX:C36	2.19	0.72
2:C:2609:PLX:H341	2:C:2609:PLX:C16	2.19	0.72
1:E:2029:GLY:O	1:E:2033:ILE:HD12	1.89	0.72
2:C:2609:PLX:H162	2:C:2609:PLX:C36	2.19	0.72
2:C:2609:PLX:H22	1:E:2042:THR:HG21	1.71	0.72
1:E:1724:ARG:HH12	1:E:1804:GLY:HA3	1.55	0.72
1:A:1703:ALA:H	1:A:2073:PHE:HD1	1.37	0.72
2:E:2601:PLX:H341	2:E:2601:PLX:C16	2.19	0.72
1:A:1234:PHE:HE1	1:A:1246:ILE:HD12	1.54	0.71
1:A:2325:ARG:NH1	1:A:2336:THR:OG1	2.22	0.71
1:C:907:ASP:CG	1:C:908:PRO:HD3	2.11	0.71
1:A:1724:ARG:HH12	1:A:1804:GLY:HA3	1.55	0.71
1:E:1740:MET:CE	2:E:2605:PLX:H233	2.21	0.71
1:E:907:ASP:CG	1:E:908:PRO:HD3	2.11	0.71
1:C:1703:ALA:H	1:C:2073:PHE:HD1	1.37	0.71
1:C:2069:THR:HG22	1:C:2070:GLU:H	1.54	0.70
1:E:1143:PHE:CD2	1:E:1154:LYS:HB3	2.27	0.70
1:C:1724:ARG:HH12	1:C:1804:GLY:HA3	1.55	0.70
1:E:2197:LEU:HD13	2:E:2601:PLX:H393	0.70	0.70
1:A:907:ASP:CG	1:A:908:PRO:HD3	2.11	0.70
1:A:2109:PHE:CE1	3:A:2606:PEE:O4	2.45	0.70
1:C:1143:PHE:CD2	1:C:1154:LYS:HB3	2.27	0.70
1:C:1735:VAL:CG1	2:C:2604:PLX:C13	2.63	0.70
1:C:2109:PHE:CE1	3:C:2607:PEE:O4	2.45	0.70
1:E:2109:PHE:HE1	3:E:2608:PEE:O4	1.74	0.70
1:A:1740:MET:CE	2:A:2603:PLX:H233	2.21	0.70
1:A:2109:PHE:HE1	3:A:2606:PEE:O4	1.75	0.70
1:C:2109:PHE:HE1	3:C:2607:PEE:O4	1.75	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2109:PHE:CE1	3:E:2608:PEE:O4	2.44	0.70
1:E:2113:LYS:O	1:E:2118:ASN:ND2	2.24	0.70
1:E:1703:ALA:H	1:E:2073:PHE:HD1	1.37	0.70
1:C:1724:ARG:HH22	1:C:1805:LEU:H	1.39	0.69
1:C:1740:MET:CE	2:C:2604:PLX:H233	2.21	0.69
2:E:2601:PLX:H232	2:E:2601:PLX:H391	1.74	0.69
3:A:2606:PEE:H68	3:A:2606:PEE:C45	2.12	0.69
1:E:1724:ARG:HH22	1:E:1805:LEU:H	1.39	0.69
1:E:2149:LEU:O	1:E:2153:MET:HG2	1.92	0.69
1:A:1143:PHE:CD2	1:A:1154:LYS:HB3	2.27	0.69
1:A:2197:LEU:HD13	2:A:2608:PLX:H393	0.71	0.69
1:A:1201:LYS:O	1:A:1206:GLN:NE2	2.26	0.69
2:C:2609:PLX:H1A2	1:E:2042:THR:CG2	2.22	0.69
1:A:2113:LYS:O	1:A:2118:ASN:ND2	2.24	0.69
1:A:2149:LEU:O	1:A:2153:MET:HG2	1.92	0.69
1:C:1740:MET:HE3	2:C:2604:PLX:H233	1.75	0.69
1:C:2149:LEU:O	1:C:2153:MET:HG2	1.92	0.69
3:C:2607:PEE:H82	3:C:2607:PEE:C41	2.22	0.69
1:E:1201:LYS:O	1:E:1206:GLN:NE2	2.26	0.69
2:C:2609:PLX:H232	2:C:2609:PLX:H391	1.74	0.68
1:A:1996:TRP:HE1	1:E:2463:GLY:HA2	1.59	0.68
1:C:1731:MET:HG2	2:C:2604:PLX:H4	1.76	0.68
1:A:1724:ARG:HH22	1:A:1805:LEU:H	1.39	0.68
1:C:1521:ARG:HE	1:C:1528:ARG:CZ	2.07	0.68
1:A:1521:ARG:HE	1:A:1528:ARG:CZ	2.07	0.68
1:A:1970:TYR:HD2	1:A:1970:TYR:O	1.77	0.68
2:A:2608:PLX:H232	2:A:2608:PLX:H391	1.74	0.68
1:C:2113:LYS:O	1:C:2118:ASN:ND2	2.24	0.68
1:A:1539:TYR:HE2	1:A:1656:ILE:HG21	1.58	0.68
3:A:2606:PEE:H82	3:A:2606:PEE:C41	2.22	0.68
1:E:1521:ARG:HE	1:E:1528:ARG:CZ	2.07	0.68
1:A:2144:ASP:HB2	1:E:2182:LYS:HE2	1.76	0.68
1:C:1201:LYS:O	1:C:1206:GLN:NE2	2.26	0.68
2:A:2608:PLX:H1A2	1:C:2042:THR:CG2	2.22	0.68
1:C:1079:TRP:HE3	1:C:1080:LEU:HD12	1.58	0.68
1:C:1539:TYR:HE2	1:C:1656:ILE:HG21	1.58	0.68
1:C:2197:LEU:HD13	2:C:2609:PLX:H393	0.70	0.67
1:E:1970:TYR:HD2	1:E:1970:TYR:O	1.77	0.67
1:E:1539:TYR:HE2	1:E:1656:ILE:HG21	1.58	0.67
1:A:1731:MET:HG2	2:A:2603:PLX:H4	1.76	0.67
1:E:2125:PHE:CD1	3:E:2608:PEE:H19	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1079:TRP:HE3	1:A:1080:LEU:HD12	1.58	0.67
1:C:1970:TYR:HD2	1:C:1970:TYR:O	1.77	0.67
1:C:2125:PHE:CD1	3:C:2607:PEE:H19	2.29	0.67
1:A:2182:LYS:HE2	1:C:2144:ASP:HB2	1.77	0.67
1:C:2463:GLY:HA2	1:E:1996:TRP:HE1	1.58	0.67
1:A:2125:PHE:CD1	3:A:2606:PEE:H19	2.30	0.67
1:A:2485:PHE:CE1	1:C:2153:MET:HE3	2.27	0.66
1:E:1731:MET:HG2	2:E:2605:PLX:H4	1.76	0.66
1:E:1735:VAL:CG1	2:E:2605:PLX:C13	2.63	0.66
3:E:2608:PEE:H82	3:E:2608:PEE:C41	2.22	0.66
1:E:1221:ILE:HD11	1:E:1280:ILE:HG23	1.78	0.66
1:C:2071:ARG:CZ	1:C:2074:SER:HB2	2.26	0.66
1:C:2182:LYS:HE2	1:E:2144:ASP:HB2	1.77	0.66
1:E:1079:TRP:HE3	1:E:1080:LEU:HD12	1.58	0.66
1:E:2421:THR:O	1:E:2425:ASP:HB2	1.96	0.66
1:A:2071:ARG:CZ	1:A:2074:SER:HB2	2.26	0.66
1:A:2250:PRO:HA	1:A:2282:VAL:HG12	1.78	0.66
1:A:2463:GLY:HA2	1:C:1996:TRP:HE1	1.60	0.66
1:A:2421:THR:O	1:A:2425:ASP:HB2	1.96	0.65
1:C:1221:ILE:HD11	1:C:1280:ILE:HG23	1.78	0.65
1:E:2071:ARG:CZ	1:E:2074:SER:HB2	2.26	0.65
1:A:1510:GLN:HE22	1:A:1671:ARG:HH22	1.45	0.65
2:C:2609:PLX:H341	2:C:2609:PLX:H161	1.78	0.65
1:E:2128:VAL:HG11	1:E:2131:LEU:HD12	1.78	0.65
2:E:2601:PLX:H341	2:E:2601:PLX:H161	1.79	0.65
2:A:2608:PLX:H341	2:A:2608:PLX:H161	1.79	0.65
1:C:1157:VAL:HG21	4:C:2608:P5S:H46A	1.79	0.65
1:A:1157:VAL:HG21	4:A:2607:P5S:H46A	1.79	0.65
1:E:2135:ARG:CZ	3:E:2608:PEE:O1P	2.45	0.65
1:E:2250:PRO:HA	1:E:2282:VAL:HG12	1.78	0.65
1:A:1221:ILE:HD11	1:A:1280:ILE:HG23	1.78	0.64
3:A:2606:PEE:H74	3:A:2606:PEE:C25	2.26	0.64
1:A:2058:HIS:NE2	1:A:2083:TYR:OH	2.28	0.64
1:C:2128:VAL:HG11	1:C:2131:LEU:HD12	1.78	0.64
1:C:2135:ARG:CZ	3:C:2607:PEE:O1P	2.45	0.64
1:C:2421:THR:O	1:C:2425:ASP:HB2	1.96	0.64
3:E:2608:PEE:H74	3:E:2608:PEE:C25	2.26	0.64
1:C:2250:PRO:HA	1:C:2282:VAL:HG12	1.78	0.64
1:A:2128:VAL:HG11	1:A:2131:LEU:HD12	1.78	0.64
1:C:1728:ARG:NH2	2:C:2605:PLX:O7	2.31	0.64
1:E:1539:TYR:CE2	1:E:1656:ILE:HG21	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2607:PEE:H74	3:C:2607:PEE:C25	2.26	0.64
1:E:1728:ARG:NH2	2:E:2606:PLX:O7	2.31	0.64
1:E:1740:MET:HE3	2:E:2605:PLX:H233	1.78	0.64
1:A:1740:MET:HE3	2:A:2603:PLX:H233	1.80	0.64
1:A:2135:ARG:CZ	3:A:2606:PEE:O1P	2.45	0.64
1:C:822:LEU:HD12	1:C:1091:SER:HB3	1.80	0.64
1:A:1539:TYR:CE2	1:A:1656:ILE:HG21	2.32	0.64
1:C:1265:MET:HE1	1:C:1275:VAL:HG11	1.80	0.64
1:C:1510:GLN:HE22	1:C:1671:ARG:HH22	1.45	0.64
1:E:1265:MET:HE1	1:E:1275:VAL:HG11	1.79	0.64
1:A:1647:GLU:N	1:A:1647:GLU:OE1	2.31	0.64
1:A:1728:ARG:NH2	2:A:2604:PLX:O7	2.31	0.64
1:E:1510:GLN:HE22	1:E:1671:ARG:HH22	1.45	0.64
1:C:2058:HIS:NE2	1:C:2083:TYR:OH	2.28	0.63
1:C:2135:ARG:NH1	3:C:2607:PEE:O1P	2.31	0.63
2:C:2603:PLX:H82	2:C:2603:PLX:H291	1.80	0.63
2:A:2608:PLX:C39	2:A:2608:PLX:H232	2.29	0.63
2:E:2601:PLX:C39	2:E:2601:PLX:H232	2.29	0.63
1:A:2042:THR:CG2	2:E:2601:PLX:H1A2	2.22	0.63
1:C:1647:GLU:N	1:C:1647:GLU:OE1	2.31	0.63
1:A:1265:MET:HE1	1:A:1275:VAL:HG11	1.80	0.63
1:E:1157:VAL:HG21	4:E:2609:P5S:H46A	1.79	0.63
1:E:2135:ARG:NH1	3:E:2608:PEE:O1P	2.31	0.63
1:E:2197:LEU:CD2	2:E:2601:PLX:C39	2.77	0.63
1:A:2135:ARG:NH1	3:A:2606:PEE:O1P	2.31	0.63
2:A:2609:PLX:H151	2:A:2609:PLX:H352	1.80	0.63
1:A:822:LEU:HD12	1:A:1091:SER:HB3	1.80	0.63
1:E:1647:GLU:OE1	1:E:1647:GLU:N	2.31	0.63
1:E:822:LEU:HD12	1:E:1091:SER:HB3	1.80	0.63
1:C:1539:TYR:CE2	1:C:1656:ILE:HG21	2.32	0.62
1:C:2197:LEU:HA	2:C:2609:PLX:C39	2.29	0.62
1:E:2058:HIS:NE2	1:E:2083:TYR:OH	2.29	0.62
1:E:1016:TRP:CD1	1:E:1036:TYR:HD2	2.18	0.62
1:A:1009:MET:HG3	1:A:1047:GLN:HE21	1.63	0.62
2:C:2609:PLX:C39	2:C:2609:PLX:H232	2.29	0.62
1:E:1009:MET:HG3	1:E:1047:GLN:HE21	1.63	0.62
1:A:2197:LEU:CD2	2:A:2608:PLX:C39	2.78	0.62
1:C:1009:MET:HG3	1:C:1047:GLN:HE21	1.63	0.62
1:E:1005:ARG:NH1	1:E:1047:GLN:HE22	1.98	0.62
1:A:1735:VAL:CG1	2:A:2603:PLX:C13	2.63	0.62
1:C:2197:LEU:CD2	2:C:2609:PLX:C39	2.77	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1016:TRP:CD1	1:A:1036:TYR:HD2	2.18	0.62
1:C:1005:ARG:NH1	1:C:1047:GLN:HE22	1.98	0.62
2:C:2601:PLX:H151	2:C:2601:PLX:H352	1.80	0.62
2:E:2604:PLX:H82	2:E:2604:PLX:H291	1.80	0.62
2:E:2601:PLX:H342	2:E:2601:PLX:C14	2.30	0.62
2:E:2602:PLX:H352	2:E:2602:PLX:H151	1.80	0.62
2:A:2602:PLX:H82	2:A:2602:PLX:H291	1.80	0.62
1:C:1016:TRP:CD1	1:C:1036:TYR:HD2	2.18	0.62
1:C:1722:ILE:CG2	1:C:1723:PRO:HD2	2.28	0.62
2:C:2609:PLX:C1A	1:E:2042:THR:CB	2.74	0.62
1:A:1005:ARG:NH1	1:A:1047:GLN:HE22	1.98	0.61
2:A:2608:PLX:H342	2:A:2608:PLX:C14	2.30	0.61
1:A:2197:LEU:HA	2:A:2608:PLX:C39	2.31	0.61
3:A:2606:PEE:H70	1:E:2203:ILE:HD13	1.81	0.61
1:E:2184:LYS:HB2	1:E:2187:VAL:HG12	1.81	0.61
1:A:2042:THR:CB	2:E:2601:PLX:C1A	2.74	0.61
1:C:2203:ILE:HD13	3:E:2608:PEE:H70	1.82	0.61
1:E:1033:TRP:HD1	1:E:1108:TRP:CD1	2.19	0.61
1:A:2325:ARG:HH22	1:A:2333:VAL:HG13	1.65	0.61
1:C:1033:TRP:HD1	1:C:1108:TRP:CD1	2.19	0.61
1:C:2325:ARG:HH22	1:C:2333:VAL:HG13	1.65	0.61
1:A:2184:LYS:HB2	1:A:2187:VAL:HG12	1.81	0.61
2:C:2609:PLX:C14	2:C:2609:PLX:H342	2.30	0.61
1:A:1033:TRP:HD1	1:A:1108:TRP:CD1	2.19	0.61
1:E:1722:ILE:CG2	1:E:1723:PRO:HD2	2.28	0.61
1:E:1969:LYS:HD3	1:E:1970:TYR:N	2.16	0.61
1:E:2325:ARG:HH22	1:E:2333:VAL:HG13	1.65	0.61
1:C:2235:TYR:HD2	1:C:2304:MET:HG3	1.66	0.61
1:E:2388:LYS:HZ2	1:E:2394:GLU:CD	2.04	0.61
1:A:1234:PHE:CE1	1:A:1246:ILE:HD12	2.36	0.60
1:A:2203:ILE:HD13	3:C:2607:PEE:H70	1.82	0.60
1:C:2184:LYS:HB2	1:C:2187:VAL:HG12	1.82	0.60
1:A:1969:LYS:HD3	1:A:1970:TYR:N	2.16	0.60
2:A:2608:PLX:H342	2:A:2608:PLX:H142	1.83	0.60
1:A:2388:LYS:HZ2	1:A:2394:GLU:CD	2.05	0.60
1:C:1234:PHE:CE1	1:C:1246:ILE:HD12	2.36	0.60
1:C:1559:LEU:HG	1:C:1653:ARG:HD2	1.84	0.60
1:E:1153:LEU:HD23	4:E:2609:P5S:H49	1.84	0.60
1:A:801:VAL:O	1:A:804:LEU:N	2.35	0.60
1:A:2513:VAL:HG23	1:A:2518:GLU:HG2	1.84	0.60
1:E:2197:LEU:HA	2:E:2601:PLX:C39	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:2608:PEE:H40	3:E:2608:PEE:C44	2.31	0.60
3:A:2606:PEE:H40	3:A:2606:PEE:C44	2.31	0.60
1:C:992:GLU:OE1	1:C:992:GLU:N	2.35	0.60
1:C:1081:TYR:CE1	1:C:1089:PRO:HB2	2.37	0.60
3:C:2607:PEE:H40	3:C:2607:PEE:C44	2.31	0.60
2:A:2608:PLX:C1A	1:C:2042:THR:CB	2.74	0.60
1:C:801:VAL:O	1:C:804:LEU:N	2.35	0.60
1:C:2513:VAL:HG23	1:C:2518:GLU:HG2	1.84	0.60
1:E:1081:TYR:CE1	1:E:1089:PRO:HB2	2.37	0.60
1:A:1559:LEU:HG	1:A:1653:ARG:HD2	1.84	0.60
2:C:2609:PLX:H342	2:C:2609:PLX:H142	1.83	0.59
2:E:2607:PLX:H342	2:E:2607:PLX:H302	1.83	0.59
1:A:2235:TYR:HD2	1:A:2304:MET:HG3	1.66	0.59
1:C:2324:GLN:HB2	1:C:2335:TYR:CE1	2.37	0.59
1:C:1969:LYS:HD3	1:C:1970:TYR:N	2.16	0.59
2:E:2601:PLX:H342	2:E:2601:PLX:H142	1.83	0.59
1:A:1081:TYR:CE1	1:A:1089:PRO:HB2	2.37	0.59
1:A:1722:ILE:CG2	1:A:1723:PRO:HD2	2.28	0.59
1:E:2235:TYR:HD2	1:E:2304:MET:HG3	1.66	0.59
2:A:2605:PLX:H342	2:A:2605:PLX:H302	1.83	0.59
1:E:1243:CYS:O	1:E:1246:ILE:HG22	2.03	0.59
1:C:1243:CYS:O	1:C:1246:ILE:HG22	2.03	0.59
1:E:1559:LEU:HG	1:E:1653:ARG:HD2	1.84	0.59
1:E:801:VAL:O	1:E:804:LEU:N	2.35	0.59
1:E:1234:PHE:CE1	1:E:1246:ILE:HD12	2.36	0.59
1:C:2179:LYS:CD	1:E:1402:ASP:HB3	2.33	0.59
2:C:2606:PLX:H342	2:C:2606:PLX:H302	1.83	0.58
1:E:2324:GLN:HB2	1:E:2335:TYR:CE1	2.37	0.58
1:C:1153:LEU:HD23	4:C:2608:P5S:H49	1.84	0.58
1:E:992:GLU:OE1	1:E:992:GLU:N	2.35	0.58
1:E:2513:VAL:HG23	1:E:2518:GLU:HG2	1.84	0.58
1:A:899:SER:OG	1:A:900:LEU:N	2.36	0.58
1:A:992:GLU:N	1:A:992:GLU:OE1	2.35	0.58
1:A:2182:LYS:CE	1:C:2144:ASP:HB2	2.33	0.58
1:A:2324:GLN:HB2	1:A:2335:TYR:CE1	2.37	0.58
1:C:2197:LEU:CA	2:C:2609:PLX:H392	2.32	0.58
1:A:2144:ASP:HB2	1:E:2182:LYS:CE	2.33	0.58
1:A:2485:PHE:CZ	1:C:2153:MET:HE1	2.38	0.58
1:C:2408:GLU:O	1:C:2426:PHE:HB2	2.04	0.58
1:E:899:SER:OG	1:E:900:LEU:N	2.36	0.58
1:A:1153:LEU:HD23	4:A:2607:P5S:H49	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:899:SER:OG	1:C:900:LEU:N	2.36	0.58
1:A:1243:CYS:O	1:A:1246:ILE:HG22	2.03	0.58
1:A:2408:GLU:O	1:A:2426:PHE:HB2	2.04	0.58
1:E:1547:ARG:HG3	1:E:1548:VAL:H	1.69	0.58
1:A:1402:ASP:HB3	1:E:2179:LYS:CD	2.33	0.58
1:A:2197:LEU:CA	2:A:2608:PLX:H392	2.33	0.58
1:C:2182:LYS:CE	1:E:2144:ASP:HB2	2.33	0.58
1:A:1213:LEU:HG	1:A:1290:LEU:HD21	1.86	0.58
1:A:2179:LYS:CD	1:C:1402:ASP:HB3	2.32	0.58
2:A:2608:PLX:H291	2:A:2608:PLX:H331	1.86	0.58
1:E:2197:LEU:CA	2:E:2601:PLX:H392	2.33	0.58
1:A:2461:LEU:O	1:A:2465:GLY:HA3	2.04	0.57
1:C:1213:LEU:HG	1:C:1290:LEU:HD21	1.86	0.57
2:C:2609:PLX:H291	2:C:2609:PLX:H331	1.86	0.57
1:E:842:TYR:HD1	1:E:844:ARG:HH21	1.52	0.57
1:E:1544:GLU:OE1	1:E:1550:GLU:N	2.30	0.57
1:E:1194:PHE:CZ	2:E:2605:PLX:H1B3	2.40	0.57
1:A:1194:PHE:CZ	2:A:2603:PLX:H1B3	2.39	0.57
1:A:1547:ARG:HG3	1:A:1548:VAL:H	1.69	0.57
1:E:1040:LEU:HG	1:E:1101:LEU:HD12	1.86	0.57
1:A:842:TYR:HD1	1:A:844:ARG:HH21	1.52	0.57
1:C:1194:PHE:CZ	2:C:2604:PLX:H1B3	2.39	0.57
1:C:1777:GLU:OE2	1:C:1779:THR:HG23	2.05	0.57
1:C:2461:LEU:O	1:C:2465:GLY:HA3	2.04	0.57
1:E:1106:GLN:O	1:E:1109:GLN:HG2	2.05	0.57
1:E:2463:GLY:O	1:E:2464:TYR:HD1	1.87	0.57
1:A:2463:GLY:O	1:A:2464:TYR:HD1	1.87	0.57
1:C:2463:GLY:O	1:C:2464:TYR:HD1	1.87	0.57
1:A:1106:GLN:O	1:A:1109:GLN:HG2	2.05	0.57
1:A:1777:GLU:OE2	1:A:1779:THR:HG23	2.05	0.57
1:C:1402:ASP:O	1:C:1405:THR:OG1	2.22	0.57
1:C:1547:ARG:HG3	1:C:1548:VAL:H	1.69	0.57
1:A:897:ASN:OD1	1:A:898:GLN:N	2.33	0.57
1:A:1040:LEU:HG	1:A:1101:LEU:HD12	1.86	0.57
1:E:1213:LEU:HG	1:E:1290:LEU:HD21	1.86	0.57
1:E:1402:ASP:O	1:E:1405:THR:OG1	2.22	0.57
1:E:2461:LEU:O	1:E:2465:GLY:HA3	2.04	0.57
3:E:2608:PEE:H68	3:E:2608:PEE:H78	1.87	0.57
2:A:2608:PLX:C34	2:A:2608:PLX:H141	2.35	0.56
1:C:1202:ASP:OD1	1:C:1202:ASP:N	2.38	0.56
2:C:2609:PLX:H141	2:C:2609:PLX:C34	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2125:PHE:O	1:E:2128:VAL:HG12	2.05	0.56
1:E:2408:GLU:O	1:E:2426:PHE:HB2	2.04	0.56
2:E:2601:PLX:H331	2:E:2601:PLX:H291	1.86	0.56
1:C:1051:CYS:SG	1:C:1091:SER:OG	2.63	0.56
1:C:1106:GLN:O	1:C:1109:GLN:HG2	2.05	0.56
1:A:2042:THR:CG2	2:E:2601:PLX:H22	2.34	0.56
1:C:1040:LEU:HG	1:C:1101:LEU:HD12	1.86	0.56
1:C:2492:ILE:HD11	1:E:2530:ILE:HD12	1.86	0.56
2:C:2609:PLX:O7	2:C:2609:PLX:O3	2.23	0.56
1:E:1687:SER:OG	1:E:1796:HIS:ND1	2.29	0.56
1:A:1783:ILE:HG23	1:A:1786:ASP:HB3	1.88	0.56
2:C:2609:PLX:H22	1:E:2042:THR:CG2	2.34	0.56
1:E:1777:GLU:OE2	1:E:1779:THR:HG23	2.05	0.56
1:C:1783:ILE:HG23	1:C:1786:ASP:HB3	1.88	0.56
1:C:2388:LYS:HZ2	1:C:2394:GLU:CD	2.08	0.56
1:E:2041:LYS:HA	1:E:2101:TYR:CD2	2.41	0.56
1:A:2041:LYS:HA	1:A:2101:TYR:CD2	2.41	0.56
1:A:2492:ILE:HD11	1:C:2530:ILE:HD12	1.87	0.56
1:A:1402:ASP:O	1:A:1405:THR:OG1	2.22	0.56
1:A:2530:ILE:HD12	1:E:2492:ILE:HD11	1.87	0.56
2:A:2608:PLX:H22	1:C:2042:THR:CG2	2.34	0.56
1:C:2394:GLU:OE1	1:C:2398:TYR:OH	2.20	0.56
1:C:2410:VAL:HG12	1:C:2426:PHE:HA	1.88	0.56
1:E:1315:GLN:HE22	1:E:1538:ARG:CB	2.19	0.56
2:E:2601:PLX:O7	2:E:2601:PLX:O3	2.23	0.56
1:C:2125:PHE:O	1:C:2128:VAL:HG12	2.05	0.56
1:C:1315:GLN:HE22	1:C:1538:ARG:CB	2.19	0.56
1:C:2041:LYS:HA	1:C:2101:TYR:CD2	2.41	0.56
1:C:2125:PHE:CE1	3:C:2607:PEE:H19	2.41	0.56
2:E:2601:PLX:H141	2:E:2601:PLX:C34	2.35	0.56
1:A:1051:CYS:SG	1:A:1091:SER:OG	2.63	0.55
1:A:1687:SER:OG	1:A:1796:HIS:ND1	2.29	0.55
1:C:842:TYR:HD1	1:C:844:ARG:HH21	1.52	0.55
1:E:897:ASN:OD1	1:E:898:GLN:N	2.34	0.55
1:A:1692:TYR:CE1	1:A:1714:VAL:HG13	2.41	0.55
2:A:2608:PLX:O7	2:A:2608:PLX:O3	2.23	0.55
1:E:1783:ILE:HG23	1:E:1786:ASP:HB3	1.88	0.55
1:E:1692:TYR:CE1	1:E:1714:VAL:HG13	2.42	0.55
1:E:2410:VAL:HG12	1:E:2426:PHE:HA	1.88	0.55
1:A:2125:PHE:O	1:A:2128:VAL:HG12	2.05	0.55
3:A:2606:PEE:H68	3:A:2606:PEE:H78	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1315:GLN:HE22	1:A:1538:ARG:CB	2.19	0.55
1:C:901:LEU:HG	1:C:1085:PHE:CG	2.42	0.55
1:A:2410:VAL:HG12	1:A:2426:PHE:HA	1.88	0.55
1:C:2138:MET:CE	3:C:2607:PEE:H49	2.37	0.54
1:E:901:LEU:HG	1:E:1085:PHE:CG	2.42	0.54
1:A:1403:HIS:O	1:A:1406:VAL:HG12	2.07	0.54
1:C:1403:HIS:O	1:C:1406:VAL:HG12	2.07	0.54
1:C:1544:GLU:OE1	1:C:1550:GLU:N	2.30	0.54
1:C:2308:LEU:HD21	1:C:2354:LEU:HB3	1.89	0.54
1:E:1403:HIS:O	1:E:1406:VAL:HG12	2.07	0.54
1:E:2138:MET:CE	3:E:2608:PEE:H49	2.37	0.54
1:A:2308:LEU:HD21	1:A:2354:LEU:HB3	1.90	0.54
1:C:1687:SER:OG	1:C:1796:HIS:ND1	2.29	0.54
1:E:1051:CYS:SG	1:E:1091:SER:OG	2.63	0.54
1:A:901:LEU:HG	1:A:1085:PHE:CG	2.42	0.54
1:A:2138:MET:CE	3:A:2606:PEE:H49	2.37	0.54
1:A:2125:PHE:CE1	3:A:2606:PEE:H19	2.41	0.54
1:C:1163:TRP:CE2	2:C:2603:PLX:H51	2.43	0.54
1:C:2463:GLY:HA2	1:E:1996:TRP:NE1	2.23	0.54
3:A:2606:PEE:C45	3:A:2606:PEE:C41	2.85	0.54
1:C:1692:TYR:CE1	1:C:1714:VAL:HG13	2.42	0.54
1:E:1002:ILE:HG23	1:E:1225:ASN:ND2	2.20	0.54
1:E:1202:ASP:OD1	1:E:1202:ASP:N	2.38	0.54
1:E:2269:ALA:O	1:E:2273:ILE:HG13	2.08	0.54
1:A:1780:ASP:OD1	1:A:1781:SER:N	2.41	0.54
1:C:1252:VAL:HG12	1:C:1278:ALA:HB3	1.90	0.54
1:C:2434:LEU:HD13	1:C:2444:LEU:HD22	1.89	0.54
3:C:2607:PEE:H68	3:C:2607:PEE:H78	1.87	0.54
1:E:2425:ASP:HB3	1:E:2426:PHE:HD1	1.73	0.54
1:E:2434:LEU:HD13	1:E:2444:LEU:HD22	1.89	0.54
1:A:2269:ALA:O	1:A:2273:ILE:HG13	2.08	0.54
1:E:1780:ASP:OD1	1:E:1781:SER:N	2.41	0.54
1:A:1264:MET:HG3	1:A:1273:LEU:HD22	1.90	0.53
1:A:2434:LEU:HD13	1:A:2444:LEU:HD22	1.89	0.53
1:E:2125:PHE:CE1	3:E:2608:PEE:H19	2.41	0.53
1:A:2153:MET:HE2	1:E:2485:PHE:CZ	2.43	0.53
1:A:1306:SER:O	1:A:1310:LYS:HG2	2.09	0.53
1:C:1780:ASP:OD1	1:C:1781:SER:N	2.41	0.53
1:E:897:ASN:O	1:E:903:ARG:NH2	2.42	0.53
1:E:1009:MET:HB3	1:E:1043:PHE:HZ	1.74	0.53
1:E:1264:MET:HG3	1:E:1273:LEU:HD22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2308:LEU:HD21	1:E:2354:LEU:HB3	1.89	0.53
1:A:2138:MET:HE1	3:A:2606:PEE:H49	1.90	0.53
1:A:2425:ASP:HB3	1:A:2426:PHE:HD1	1.73	0.53
1:C:2425:ASP:HB3	1:C:2426:PHE:HD1	1.73	0.53
1:E:1553:ARG:HH11	1:E:1556:LEU:HD12	1.74	0.53
1:E:1669:GLN:O	1:E:1674:ARG:HG3	2.08	0.53
1:E:1740:MET:HE1	2:E:2605:PLX:H233	1.91	0.53
1:C:1669:GLN:O	1:C:1674:ARG:HG3	2.08	0.53
1:E:1663:GLU:O	1:E:1666:GLU:HG3	2.09	0.53
1:A:1252:VAL:HG12	1:A:1278:ALA:HB3	1.90	0.53
1:A:1669:GLN:O	1:A:1674:ARG:HG3	2.08	0.53
1:A:1002:ILE:HG23	1:A:1225:ASN:ND2	2.20	0.53
1:A:1009:MET:HB3	1:A:1043:PHE:HZ	1.74	0.53
1:C:1306:SER:O	1:C:1310:LYS:HG2	2.09	0.53
1:E:1252:VAL:HG12	1:E:1278:ALA:HB3	1.90	0.53
1:E:1306:SER:O	1:E:1310:LYS:HG2	2.09	0.53
1:A:897:ASN:O	1:A:903:ARG:NH2	2.42	0.53
1:A:1163:TRP:CE2	2:A:2602:PLX:H51	2.43	0.53
1:A:1663:GLU:O	1:A:1666:GLU:HG3	2.09	0.53
1:C:1009:MET:HG3	1:C:1047:GLN:NE2	2.24	0.53
1:C:1264:MET:HG3	1:C:1273:LEU:HD22	1.91	0.53
1:C:1663:GLU:O	1:C:1666:GLU:HG3	2.09	0.53
1:C:2269:ALA:O	1:C:2273:ILE:HG13	2.08	0.53
1:A:2463:GLY:HA2	1:C:1996:TRP:NE1	2.24	0.52
1:C:1731:MET:CG	2:C:2604:PLX:H4	2.39	0.52
1:C:2485:PHE:CZ	1:E:2153:MET:HE2	2.44	0.52
1:A:1553:ARG:HH11	1:A:1556:LEU:HD12	1.74	0.52
1:E:1731:MET:CG	2:E:2605:PLX:H4	2.39	0.52
1:C:1987:ASP:OD2	1:C:2082:TRP:NE1	2.43	0.52
1:E:2244:GLN:HG2	1:E:2245:GLN:H	1.74	0.52
1:A:1232:CYS:SG	1:A:1233:VAL:N	2.83	0.52
1:C:2166:LYS:NZ	1:C:2501:ASP:OD1	2.41	0.52
1:C:2244:GLN:HG2	1:C:2245:GLN:H	1.74	0.52
1:A:1731:MET:CG	2:A:2603:PLX:H4	2.39	0.52
1:C:2138:MET:HE1	3:C:2607:PEE:H49	1.91	0.52
1:E:1163:TRP:CE2	2:E:2604:PLX:H51	2.43	0.52
1:E:1009:MET:HG3	1:E:1047:GLN:NE2	2.24	0.52
1:A:1009:MET:HG3	1:A:1047:GLN:NE2	2.24	0.52
1:A:1996:TRP:NE1	1:E:2463:GLY:HA2	2.23	0.52
1:A:2244:GLN:HG2	1:A:2245:GLN:H	1.74	0.52
1:C:1232:CYS:SG	1:C:1233:VAL:N	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1553:ARG:HH11	1:C:1556:LEU:HD12	1.74	0.52
1:C:1752:PHE:HB3	1:C:1754:TRP:CE3	2.45	0.52
1:E:1752:PHE:HB3	1:E:1754:TRP:CE3	2.45	0.52
2:A:2608:PLX:H162	2:A:2608:PLX:H341	1.91	0.52
1:C:897:ASN:O	1:C:903:ARG:NH2	2.42	0.52
1:E:1232:CYS:SG	1:E:1233:VAL:N	2.83	0.52
3:E:2608:PEE:C45	3:E:2608:PEE:C24	2.85	0.52
1:A:1544:GLU:OE1	1:A:1550:GLU:N	2.29	0.52
1:A:2105:ILE:HG13	1:A:2106:LEU:HD12	1.92	0.52
1:A:1740:MET:HE1	2:A:2603:PLX:H233	1.89	0.52
1:C:897:ASN:OD1	1:C:898:GLN:N	2.33	0.51
1:C:1009:MET:HB3	1:C:1043:PHE:HZ	1.74	0.51
1:A:2244:GLN:HG2	1:A:2245:GLN:N	2.25	0.51
1:C:2105:ILE:HG13	1:C:2106:LEU:HD12	1.92	0.51
1:E:2046:LYS:NZ	1:E:2093:SER:HB2	2.26	0.51
1:E:2128:VAL:HG21	3:E:2608:PEE:H79	1.92	0.51
1:E:2244:GLN:HG2	1:E:2245:GLN:N	2.25	0.51
1:A:1090:ASN:OD1	1:A:1092:THR:N	2.37	0.51
1:A:2128:VAL:HG21	3:A:2606:PEE:H79	1.92	0.51
1:C:2314:ASP:OD1	1:C:2314:ASP:N	2.44	0.51
1:E:1987:ASP:OD2	1:E:2082:TRP:NE1	2.43	0.51
1:E:2035:ARG:CD	3:E:2608:PEE:O5	2.57	0.51
1:A:1987:ASP:OD2	1:A:2082:TRP:NE1	2.43	0.51
1:A:2179:LYS:HD3	1:C:1402:ASP:CB	2.38	0.51
1:C:2128:VAL:HG21	3:C:2607:PEE:H79	1.92	0.51
1:C:2244:GLN:HG2	1:C:2245:GLN:N	2.25	0.51
1:C:2374:LYS:HD2	1:C:2399:LEU:HD11	1.93	0.51
1:E:2138:MET:HE1	3:E:2608:PEE:H49	1.91	0.51
1:C:801:VAL:O	1:C:802:ARG:C	2.49	0.51
1:A:1969:LYS:HB3	1:A:1971:ARG:HH11	1.76	0.51
1:A:2179:LYS:HE3	1:C:1402:ASP:C	2.30	0.51
1:C:1774:LEU:HD22	2:C:2605:PLX:H231	1.93	0.51
1:E:1774:LEU:HD22	2:E:2606:PLX:H231	1.93	0.51
1:E:2105:ILE:HG13	1:E:2106:LEU:HD12	1.92	0.51
1:E:801:VAL:O	1:E:802:ARG:C	2.49	0.51
3:E:2608:PEE:C45	3:E:2608:PEE:C41	2.85	0.51
1:A:1332:ASN:O	1:A:1336:GLN:HG2	2.11	0.51
1:A:1752:PHE:HB3	1:A:1754:TRP:CE3	2.45	0.51
1:C:1661:GLU:HA	1:C:1664:ARG:NH2	2.26	0.51
3:C:2607:PEE:C45	3:C:2607:PEE:C24	2.85	0.51
2:C:2609:PLX:C14	2:C:2609:PLX:C34	2.89	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1519:TRP:CE2	1:E:1523:PHE:HE2	2.29	0.51
2:E:2601:PLX:C14	2:E:2601:PLX:C34	2.89	0.51
1:A:1202:ASP:N	1:A:1202:ASP:OD1	2.38	0.50
1:A:2046:LYS:NZ	1:A:2093:SER:HB2	2.26	0.50
2:A:2608:PLX:C14	2:A:2608:PLX:C34	2.89	0.50
1:C:1519:TRP:CE2	1:C:1523:PHE:HE2	2.29	0.50
1:A:1005:ARG:HH12	1:A:1047:GLN:HE22	1.58	0.50
1:A:1402:ASP:C	1:E:2179:LYS:HE3	2.31	0.50
1:C:854:THR:HA	1:C:857:THR:HG22	1.93	0.50
1:C:2046:LYS:NZ	1:C:2093:SER:HB2	2.26	0.50
1:E:854:THR:HA	1:E:857:THR:HG22	1.93	0.50
1:E:1981:PHE:CE2	3:E:2608:PEE:H17	2.46	0.50
1:C:1002:ILE:HG23	1:C:1225:ASN:ND2	2.20	0.50
2:C:2609:PLX:H162	2:C:2609:PLX:C34	2.41	0.50
1:A:1519:TRP:CE2	1:A:1523:PHE:HE2	2.30	0.50
1:A:2314:ASP:N	1:A:2314:ASP:OD1	2.44	0.50
2:A:2605:PLX:H182	2:A:2605:PLX:H281	1.94	0.50
1:E:1332:ASN:O	1:E:1336:GLN:HG2	2.11	0.50
1:E:1969:LYS:HB3	1:E:1971:ARG:HH11	1.76	0.50
1:E:2374:LYS:HD2	1:E:2399:LEU:HD11	1.93	0.50
2:E:2601:PLX:H162	2:E:2601:PLX:H341	1.91	0.50
1:A:1196:THR:O	1:A:1200:GLN:HG2	2.12	0.50
1:A:2533:TYR:HB3	1:E:2492:ILE:HG21	1.94	0.50
1:E:2125:PHE:HD1	3:E:2608:PEE:H19	1.76	0.50
1:A:1774:LEU:HD22	2:A:2604:PLX:H231	1.93	0.50
1:C:907:ASP:OD2	1:C:908:PRO:HD3	2.11	0.50
1:C:1981:PHE:CE2	3:C:2607:PEE:H17	2.46	0.50
1:E:2314:ASP:OD1	1:E:2314:ASP:N	2.44	0.50
2:E:2601:PLX:H162	2:E:2601:PLX:C34	2.41	0.50
1:A:2374:LYS:HD2	1:A:2399:LEU:HD11	1.93	0.50
1:C:1196:THR:O	1:C:1200:GLN:HG2	2.12	0.50
1:C:1969:LYS:HB3	1:C:1971:ARG:HH11	1.76	0.50
1:C:1332:ASN:O	1:C:1336:GLN:HG2	2.11	0.50
1:C:2492:ILE:HG21	1:E:2533:TYR:HB3	1.94	0.50
2:C:2609:PLX:H162	2:C:2609:PLX:H341	1.91	0.50
1:E:1161:LEU:HD13	2:E:2604:PLX:H392	1.94	0.50
1:A:2394:GLU:OE1	1:A:2398:TYR:OH	2.20	0.50
1:C:1981:PHE:HE1	3:C:2607:PEE:H53	1.77	0.50
2:E:2607:PLX:H281	2:E:2607:PLX:H182	1.94	0.50
1:A:1981:PHE:HE1	3:A:2606:PEE:H53	1.77	0.49
1:A:1981:PHE:CE2	3:A:2606:PEE:H17	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:2606:PEE:C45	3:A:2606:PEE:C24	2.85	0.49
2:A:2608:PLX:H162	2:A:2608:PLX:C34	2.41	0.49
1:E:1092:THR:O	1:E:1095:ILE:HG22	2.12	0.49
1:E:1661:GLU:HA	1:E:1664:ARG:NH2	2.26	0.49
1:A:2198:PHE:CZ	1:A:2202:ILE:HD11	2.48	0.49
1:E:1143:PHE:CZ	1:E:1301:TYR:HD2	2.30	0.49
2:E:2604:PLX:H232	2:E:2604:PLX:H192	1.95	0.49
2:C:2606:PLX:H182	2:C:2606:PLX:H281	1.94	0.49
1:E:1196:THR:O	1:E:1200:GLN:HG2	2.12	0.49
1:A:1260:ASP:OD1	1:A:1263:GLU:HG2	2.13	0.49
1:A:2071:ARG:NH1	1:A:2073:PHE:HE2	2.11	0.49
1:C:2041:LYS:HA	1:C:2101:TYR:CE2	2.48	0.49
1:E:1981:PHE:HE1	3:E:2608:PEE:H53	1.77	0.49
1:A:907:ASP:OD2	1:A:908:PRO:HD3	2.11	0.49
1:A:2461:LEU:HD23	1:A:2462:ALA:N	2.28	0.49
1:C:1092:THR:O	1:C:1095:ILE:HG22	2.12	0.49
1:E:1218:VAL:O	1:E:1221:ILE:HG22	2.13	0.49
1:A:801:VAL:O	1:A:802:ARG:C	2.49	0.49
1:A:1214:ILE:HG12	1:A:1290:LEU:HD23	1.95	0.49
1:A:1661:GLU:HA	1:A:1664:ARG:NH2	2.26	0.49
1:A:2125:PHE:HD1	3:A:2606:PEE:H19	1.76	0.49
1:C:1115:ARG:NH2	1:C:1118:GLU:HG3	2.28	0.49
1:C:2071:ARG:NH1	1:C:2073:PHE:HE2	2.11	0.49
2:C:2603:PLX:H232	2:C:2603:PLX:H192	1.95	0.49
3:C:2607:PEE:C45	3:C:2607:PEE:C41	2.85	0.49
1:E:815:LEU:HD11	1:E:1095:ILE:HD11	1.95	0.49
1:E:907:ASP:OD2	1:E:908:PRO:HD3	2.11	0.49
1:E:1115:ARG:NH2	1:E:1118:GLU:HG3	2.28	0.49
1:A:1161:LEU:HD13	2:A:2602:PLX:H392	1.94	0.49
1:C:1218:VAL:O	1:C:1221:ILE:HG22	2.13	0.49
1:E:1214:ILE:HG12	1:E:1290:LEU:HD23	1.95	0.49
1:E:2325:ARG:NH2	1:E:2333:VAL:HG13	2.27	0.49
1:A:815:LEU:HD11	1:A:1095:ILE:HD11	1.95	0.49
1:C:1005:ARG:HH12	1:C:1047:GLN:HE22	1.58	0.49
1:C:2198:PHE:CZ	1:C:2202:ILE:HD11	2.48	0.49
1:C:1116:THR:HA	1:C:1119:TRP:CD1	2.48	0.49
1:C:1143:PHE:CZ	1:C:1301:TYR:HD2	2.30	0.49
1:C:1510:GLN:NE2	1:C:1671:ARG:HH22	2.10	0.49
1:C:2179:LYS:HE3	1:E:1402:ASP:C	2.32	0.49
1:A:1092:THR:O	1:A:1095:ILE:HG22	2.12	0.49
1:A:1143:PHE:CZ	1:A:1301:TYR:HD2	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2041:LYS:HA	1:A:2101:TYR:CE2	2.48	0.49
1:A:2463:GLY:O	1:A:2464:TYR:CD1	2.65	0.49
1:C:1260:ASP:OD1	1:C:1263:GLU:HG2	2.13	0.49
1:E:1005:ARG:HH12	1:E:1047:GLN:HE22	1.58	0.49
1:A:854:THR:HA	1:A:857:THR:HG22	1.94	0.48
1:C:2179:LYS:HD3	1:E:1402:ASP:CB	2.40	0.48
1:C:2463:GLY:O	1:C:2464:TYR:CD1	2.66	0.48
1:E:2071:ARG:NH1	1:E:2073:PHE:HE2	2.10	0.48
1:A:1010:VAL:CG2	1:A:1225:ASN:HD21	2.26	0.48
1:A:2460:PHE:HE2	1:A:2466:ILE:HD13	1.78	0.48
1:C:1161:LEU:HD13	2:C:2603:PLX:H392	1.94	0.48
1:C:1214:ILE:HG12	1:C:1290:LEU:HD23	1.95	0.48
1:C:1670:GLY:HA3	1:C:1674:ARG:HE	1.78	0.48
1:E:1090:ASN:OD1	1:E:1092:THR:N	2.37	0.48
1:A:1116:THR:HA	1:A:1119:TRP:CD1	2.48	0.48
1:A:2325:ARG:NH2	1:A:2333:VAL:HG13	2.27	0.48
2:A:2605:PLX:H181	2:A:2605:PLX:H142	1.95	0.48
1:C:815:LEU:HD11	1:C:1095:ILE:HD11	1.95	0.48
1:C:1010:VAL:CG2	1:C:1225:ASN:HD21	2.26	0.48
1:C:1970:TYR:O	1:C:1970:TYR:CD2	2.64	0.48
1:C:2461:LEU:HD23	1:C:2462:ALA:N	2.28	0.48
1:E:1969:LYS:HD3	1:E:1970:TYR:H	1.77	0.48
1:E:2460:PHE:HE2	1:E:2466:ILE:HD13	1.78	0.48
1:E:2461:LEU:HD23	1:E:2462:ALA:N	2.28	0.48
1:A:2492:ILE:HG21	1:C:2533:TYR:HB3	1.95	0.48
2:A:2608:PLX:H192	2:A:2608:PLX:C36	2.37	0.48
1:C:1200:GLN:HE22	1:C:1309:LEU:HB3	1.78	0.48
1:E:1260:ASP:OD1	1:E:1263:GLU:HG2	2.13	0.48
1:E:2041:LYS:HA	1:E:2101:TYR:CE2	2.48	0.48
1:A:1218:VAL:O	1:A:1221:ILE:HG22	2.13	0.48
1:A:1969:LYS:HD3	1:A:1970:TYR:H	1.77	0.48
1:C:1699:HIS:ND1	1:C:1707:SER:O	2.47	0.48
1:A:1200:GLN:HE22	1:A:1309:LEU:HB3	1.78	0.48
1:A:1515:GLY:O	1:A:1518:ARG:HG2	2.14	0.48
1:A:2033:ILE:HG13	2:E:2601:PLX:C15	2.44	0.48
1:C:908:PRO:HD2	1:C:914:VAL:HG12	1.96	0.48
1:C:1179:ILE:O	1:C:1179:ILE:HG23	2.14	0.48
1:C:2285:GLN:HB3	1:C:2443:LEU:HD11	1.96	0.48
1:E:2166:LYS:NZ	1:E:2501:ASP:OD1	2.41	0.48
1:E:2198:PHE:CZ	1:E:2202:ILE:HD11	2.48	0.48
2:A:2605:PLX:H292	2:A:2605:PLX:H261	1.68	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1116:THR:HA	1:E:1119:TRP:CD1	2.48	0.48
1:E:1670:GLY:HA3	1:E:1674:ARG:HE	1.78	0.48
1:E:2130:PHE:O	1:E:2134:LEU:HD23	2.14	0.48
1:A:1402:ASP:CB	1:E:2179:LYS:HD3	2.39	0.48
1:A:1670:GLY:HA3	1:A:1674:ARG:HE	1.78	0.48
1:C:1969:LYS:HD3	1:C:1970:TYR:H	1.77	0.48
1:A:1115:ARG:NH2	1:A:1118:GLU:HG3	2.28	0.48
1:A:2060:TRP:HE3	1:A:2061:MET:HE2	1.77	0.48
1:C:2071:ARG:HH11	1:C:2073:PHE:HE2	1.62	0.48
2:C:2606:PLX:H142	2:C:2606:PLX:H181	1.95	0.48
1:E:1515:GLY:O	1:E:1518:ARG:HG2	2.14	0.48
1:E:2376:ILE:HB	1:E:2448:ILE:HG22	1.96	0.48
2:E:2607:PLX:H181	2:E:2607:PLX:H142	1.95	0.48
1:A:908:PRO:HD2	1:A:914:VAL:HG12	1.96	0.48
1:A:1179:ILE:HG23	1:A:1179:ILE:O	2.14	0.48
1:A:2197:LEU:CG	2:A:2608:PLX:C39	2.92	0.48
2:A:2602:PLX:H192	2:A:2602:PLX:H232	1.95	0.48
1:C:2460:PHE:HE2	1:C:2466:ILE:HD13	1.78	0.48
1:A:1510:GLN:NE2	1:A:1671:ARG:HH22	2.10	0.47
1:A:2285:GLN:HB3	1:A:2443:LEU:HD11	1.96	0.47
1:C:2130:PHE:O	1:C:2134:LEU:HD23	2.14	0.47
1:C:2182:LYS:CD	1:E:2144:ASP:HB2	2.44	0.47
1:C:2376:ILE:HB	1:C:2448:ILE:HG22	1.96	0.47
2:E:2601:PLX:H192	2:E:2601:PLX:C36	2.36	0.47
1:A:1143:PHE:CZ	1:A:1301:TYR:CD2	3.03	0.47
1:A:2130:PHE:O	1:A:2134:LEU:HD23	2.14	0.47
1:C:1331:ILE:O	1:C:1335:ARG:HG2	2.14	0.47
1:C:2134:LEU:HB3	1:C:2138:MET:HE2	1.96	0.47
1:C:2422:LYS:HA	1:C:2422:LYS:HE2	1.96	0.47
1:E:1200:GLN:HE22	1:E:1309:LEU:HB3	1.78	0.47
1:E:1699:HIS:ND1	1:E:1707:SER:O	2.47	0.47
1:E:1795:PHE:HA	2:E:2604:PLX:H251	1.96	0.47
1:E:2422:LYS:HA	1:E:2422:LYS:HE2	1.96	0.47
1:A:1040:LEU:HD21	1:A:1100:LEU:HG	1.96	0.47
1:A:1699:HIS:ND1	1:A:1707:SER:O	2.47	0.47
2:A:2608:PLX:H361	2:A:2608:PLX:C16	2.36	0.47
1:E:1179:ILE:HG23	1:E:1179:ILE:O	2.14	0.47
1:E:1331:ILE:O	1:E:1335:ARG:HG2	2.14	0.47
1:A:2035:ARG:CD	3:A:2606:PEE:O5	2.57	0.47
1:A:2060:TRP:CE3	1:A:2061:MET:HE2	2.49	0.47
1:C:1740:MET:HE1	2:C:2604:PLX:H233	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2325:ARG:NH2	1:C:2333:VAL:HG13	2.27	0.47
2:C:2609:PLX:C15	1:E:2033:ILE:HG13	2.44	0.47
1:E:1200:GLN:NE2	1:E:1309:LEU:HB3	2.30	0.47
1:A:1177:ILE:O	1:A:1177:ILE:HG22	2.15	0.47
1:A:1200:GLN:NE2	1:A:1309:LEU:HB3	2.30	0.47
1:A:1349:MET:HE1	1:A:2518:GLU:HG3	1.95	0.47
1:E:1311:ALA:O	1:E:1315:GLN:HG3	2.14	0.47
1:E:2197:LEU:CG	2:E:2601:PLX:C39	2.91	0.47
1:E:2463:GLY:O	1:E:2464:TYR:CD1	2.66	0.47
1:A:2144:ASP:HB2	1:E:2182:LYS:CD	2.44	0.47
1:C:1559:LEU:HD23	1:C:1559:LEU:H	1.79	0.47
1:E:1559:LEU:H	1:E:1559:LEU:HD23	1.80	0.47
1:A:1331:ILE:O	1:A:1335:ARG:HG2	2.14	0.47
1:A:1714:VAL:O	1:A:1719:MET:HG3	2.15	0.47
1:A:1795:PHE:HA	2:A:2602:PLX:H251	1.96	0.47
1:A:2422:LYS:HE2	1:A:2422:LYS:HA	1.96	0.47
1:C:1164:LEU:HD22	2:C:2603:PLX:H341	1.97	0.47
1:C:1200:GLN:NE2	1:C:1309:LEU:HB3	2.30	0.47
1:C:1221:ILE:CD1	1:C:1280:ILE:HD12	2.45	0.47
1:C:1345:LEU:HB2	1:C:2104:ARG:NH1	2.25	0.47
1:C:1515:GLY:O	1:C:1518:ARG:HG2	2.14	0.47
1:C:2489:SER:O	1:C:2492:ILE:HB	2.15	0.47
2:C:2609:PLX:H192	2:C:2609:PLX:C36	2.36	0.47
1:E:908:PRO:HD2	1:E:914:VAL:HG12	1.95	0.47
1:E:1010:VAL:CG2	1:E:1225:ASN:HD21	2.26	0.47
1:E:1040:LEU:HD21	1:E:1100:LEU:HG	1.96	0.47
1:E:1221:ILE:CD1	1:E:1280:ILE:HD12	2.45	0.47
1:E:1714:VAL:O	1:E:1719:MET:HG3	2.15	0.47
1:E:2285:GLN:HB3	1:E:2443:LEU:HD11	1.96	0.47
1:E:2337:ASN:OD1	1:E:2337:ASN:N	2.47	0.47
1:A:1699:HIS:CE1	1:A:1708:LEU:HA	2.50	0.47
1:A:2376:ILE:HB	1:A:2448:ILE:HG22	1.96	0.47
1:E:1315:GLN:HE22	1:E:1538:ARG:CA	2.28	0.47
1:A:2182:LYS:CD	1:C:2144:ASP:HB2	2.45	0.47
1:C:946:HIS:O	1:C:950:GLN:N	2.47	0.47
1:E:2232:LEU:HD12	1:E:2317:LEU:HD12	1.97	0.47
1:A:1311:ALA:O	1:A:1315:GLN:HG3	2.14	0.47
1:A:2128:VAL:CG2	3:A:2606:PEE:H79	2.45	0.47
1:C:1010:VAL:HG23	1:C:1225:ASN:HD21	1.80	0.47
1:C:1170:PHE:HB2	1:C:1188:CYS:SG	2.55	0.47
1:C:1752:PHE:CD1	1:C:1754:TRP:HZ3	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1143:PHE:CZ	1:E:1301:TYR:CD2	3.03	0.47
1:E:1177:ILE:HG22	1:E:1177:ILE:O	2.15	0.47
3:E:2608:PEE:H40	3:E:2608:PEE:H77	1.95	0.47
1:C:1090:ASN:OD1	1:C:1092:THR:N	2.37	0.46
1:C:1143:PHE:CZ	1:C:1301:TYR:CD2	3.03	0.46
1:C:1520:LEU:HD21	1:C:1679:GLY:HA2	1.97	0.46
1:E:1752:PHE:CD1	1:E:1754:TRP:HZ3	2.33	0.46
1:E:2360:GLY:HA2	1:E:2407:ARG:NH1	2.30	0.46
1:A:1010:VAL:HG23	1:A:1225:ASN:HD21	1.80	0.46
1:A:1559:LEU:HD23	1:A:1559:LEU:H	1.79	0.46
2:A:2608:PLX:C15	1:C:2033:ILE:HG13	2.44	0.46
1:C:1200:GLN:O	1:C:1310:LYS:NZ	2.37	0.46
1:C:1311:ALA:O	1:C:1315:GLN:HG3	2.14	0.46
1:C:1795:PHE:HA	2:C:2603:PLX:H251	1.96	0.46
1:C:2360:GLY:HA2	1:C:2407:ARG:NH1	2.31	0.46
1:E:1170:PHE:HB2	1:E:1188:CYS:SG	2.56	0.46
1:E:2128:VAL:CG2	3:E:2608:PEE:H79	2.45	0.46
1:A:2166:LYS:NZ	1:A:2501:ASP:OD1	2.41	0.46
1:C:2128:VAL:CG2	3:C:2607:PEE:H79	2.45	0.46
3:C:2607:PEE:O2P	3:C:2607:PEE:H1	2.16	0.46
1:E:1164:LEU:HD22	2:E:2604:PLX:H341	1.97	0.46
1:E:2060:TRP:HE3	1:E:2061:MET:HE2	1.80	0.46
1:A:1520:LEU:HD21	1:A:1679:GLY:HA2	1.97	0.46
1:C:1714:VAL:O	1:C:1719:MET:HG3	2.15	0.46
1:E:1520:LEU:HD21	1:E:1679:GLY:HA2	1.97	0.46
1:E:2071:ARG:HH11	1:E:2073:PHE:HE2	1.62	0.46
1:C:1699:HIS:CE1	1:C:1708:LEU:HA	2.50	0.46
1:C:2197:LEU:CG	2:C:2609:PLX:H393	2.33	0.46
1:C:2404:GLN:CD	1:C:2406:ARG:HH12	2.19	0.46
1:E:1699:HIS:CE1	1:E:1708:LEU:HA	2.50	0.46
1:E:2489:SER:O	1:E:2492:ILE:HB	2.15	0.46
1:A:1021:LEU:HA	1:A:1021:LEU:HD23	1.77	0.46
1:C:1177:ILE:HG22	1:C:1177:ILE:O	2.15	0.46
1:C:2065:LEU:HB3	1:C:2066:PRO:HD3	1.98	0.46
1:C:2197:LEU:CG	2:C:2609:PLX:C39	2.91	0.46
1:C:2337:ASN:OD1	1:C:2337:ASN:N	2.47	0.46
1:A:1315:GLN:HE22	1:A:1538:ARG:CA	2.28	0.46
1:A:1752:PHE:CD1	1:A:1754:TRP:HZ3	2.33	0.46
1:C:1315:GLN:HE22	1:C:1538:ARG:CA	2.28	0.46
1:C:1800:LEU:HD22	1:C:1806:TRP:HE3	1.81	0.46
1:A:2134:LEU:HB3	1:A:2138:MET:HE2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2360:GLY:HA2	1:A:2407:ARG:NH1	2.31	0.46
1:C:1040:LEU:HD21	1:C:1100:LEU:HG	1.96	0.46
1:C:2125:PHE:HD1	3:C:2607:PEE:H19	1.76	0.46
2:C:2609:PLX:H361	2:C:2609:PLX:C16	2.36	0.46
1:E:2134:LEU:HB3	1:E:2138:MET:HE2	1.98	0.46
1:E:2404:GLN:CD	1:E:2406:ARG:HH12	2.19	0.46
1:A:2489:SER:O	1:A:2492:ILE:HB	2.15	0.46
1:C:2060:TRP:HE3	1:C:2061:MET:HE2	1.80	0.46
1:E:1010:VAL:HG23	1:E:1225:ASN:HD21	1.80	0.46
1:E:1800:LEU:HD22	1:E:1806:TRP:HE3	1.81	0.46
2:E:2607:PLX:H292	2:E:2607:PLX:H261	1.68	0.46
1:A:1170:PHE:CD2	1:A:1787:LEU:HD13	2.51	0.45
1:A:2244:GLN:N	1:A:2244:GLN:OE1	2.49	0.45
1:A:2404:GLN:CD	1:A:2406:ARG:HH12	2.19	0.45
1:A:2513:VAL:CG2	1:A:2518:GLU:HG2	2.46	0.45
3:A:2606:PEE:H1	3:A:2606:PEE:O2P	2.15	0.45
1:E:2197:LEU:CD2	2:E:2601:PLX:H392	2.41	0.45
1:E:2244:GLN:N	1:E:2244:GLN:OE1	2.49	0.45
1:A:1345:LEU:HB2	1:A:2104:ARG:NH1	2.25	0.45
1:A:2232:LEU:HD12	1:A:2317:LEU:HD12	1.97	0.45
1:C:1221:ILE:HD11	1:C:1280:ILE:HD12	1.98	0.45
1:C:2513:VAL:CG2	1:C:2518:GLU:HG2	2.46	0.45
1:E:1995:PHE:CE1	1:E:2021:LEU:HD21	2.52	0.45
1:A:1221:ILE:CD1	1:A:1280:ILE:HD12	2.45	0.45
1:A:1502:MET:O	1:A:1505:LEU:HG	2.17	0.45
1:A:1995:PHE:CE1	1:A:2021:LEU:HD21	2.52	0.45
1:C:2244:GLN:N	1:C:2244:GLN:OE1	2.49	0.45
1:C:2434:LEU:HA	1:C:2434:LEU:HD12	1.64	0.45
1:A:1016:TRP:CD1	1:A:1036:TYR:CD2	3.02	0.45
1:A:1170:PHE:HB2	1:A:1188:CYS:SG	2.55	0.45
1:A:1800:LEU:HD22	1:A:1806:TRP:HE3	1.81	0.45
1:A:2225:ASP:OD2	1:A:2226:VAL:N	2.50	0.45
1:C:1292:LEU:HD11	4:C:2608:P5S:H23	1.98	0.45
1:C:1995:PHE:CE1	1:C:2021:LEU:HD21	2.51	0.45
1:C:2035:ARG:CD	3:C:2607:PEE:O5	2.57	0.45
1:E:1292:LEU:O	1:E:1296:ILE:HG12	2.17	0.45
3:E:2608:PEE:H1	3:E:2608:PEE:O2P	2.16	0.45
1:A:1299:SER:HB2	1:A:1301:TYR:HD1	1.81	0.45
1:A:1660:GLU:OE2	1:A:1660:GLU:N	2.47	0.45
1:A:2337:ASN:OD1	1:A:2337:ASN:N	2.47	0.45
1:C:2225:ASP:OD2	1:C:2226:VAL:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2232:LEU:HD12	1:C:2317:LEU:HD12	1.97	0.45
1:E:2434:LEU:HD12	1:E:2434:LEU:HA	1.64	0.45
1:A:1164:LEU:HD22	2:A:2602:PLX:H341	1.97	0.45
3:A:2606:PEE:C24	3:A:2606:PEE:C44	2.95	0.45
1:C:1016:TRP:CD1	1:C:1036:TYR:CD2	3.03	0.45
1:C:1117:GLU:OE2	1:C:1118:GLU:HG2	2.16	0.45
1:C:1292:LEU:O	1:C:1296:ILE:HG12	2.17	0.45
1:C:1660:GLU:OE2	1:C:1660:GLU:N	2.47	0.45
1:C:2407:ARG:NE	1:C:2426:PHE:CE2	2.84	0.45
1:E:1170:PHE:CD2	1:E:1787:LEU:HD13	2.51	0.45
1:E:1299:SER:HB2	1:E:1301:TYR:HD1	1.81	0.45
1:E:1701:VAL:HG12	1:E:1784:LYS:HD3	1.99	0.45
1:E:2086:LYS:HD2	1:E:2086:LYS:HA	1.81	0.45
1:E:2213:ILE:HG13	1:E:2214:ARG:N	2.32	0.45
1:A:1221:ILE:HD11	1:A:1280:ILE:HD12	1.98	0.45
1:A:1292:LEU:HD11	4:A:2607:P5S:H23	1.98	0.45
1:C:1299:SER:HB2	1:C:1301:TYR:HD1	1.81	0.45
1:C:2405:LEU:HD12	1:C:2430:TRP:CZ2	2.52	0.45
1:A:1117:GLU:OE2	1:A:1118:GLU:HG2	2.16	0.45
1:A:2073:PHE:C	1:A:2073:PHE:CD2	2.90	0.45
1:C:1701:VAL:HG12	1:C:1784:LYS:HD3	1.98	0.45
1:E:1143:PHE:HD2	1:E:1154:LYS:HB3	1.81	0.45
1:E:1150:LEU:HG	1:E:1154:LYS:HD2	1.99	0.45
1:E:1970:TYR:O	1:E:1970:TYR:CD2	2.64	0.45
1:A:1150:LEU:HG	1:A:1154:LYS:HD2	1.99	0.45
1:A:2387:VAL:HG12	1:A:2390:LEU:H	1.82	0.45
1:C:1150:LEU:HG	1:C:1154:LYS:HD2	1.99	0.45
1:C:1170:PHE:CD2	1:C:1787:LEU:HD13	2.51	0.45
3:C:2607:PEE:C24	3:C:2607:PEE:C44	2.95	0.45
1:E:1510:GLN:NE2	1:E:1671:ARG:HH22	2.10	0.45
1:A:1292:LEU:O	1:A:1296:ILE:HG12	2.17	0.45
1:A:1361:GLN:OE1	1:A:1361:GLN:HA	2.17	0.45
1:A:1769:PHE:CD1	1:A:1770:PRO:HD2	2.52	0.45
1:C:2073:PHE:C	1:C:2073:PHE:CD2	2.90	0.45
2:C:2601:PLX:H131	2:C:2601:PLX:H161	1.89	0.45
1:E:1221:ILE:HD11	1:E:1280:ILE:HD12	1.98	0.45
1:E:1292:LEU:HD11	4:E:2609:P5S:H23	1.98	0.45
1:E:1660:GLU:HG2	1:E:1664:ARG:NH2	2.32	0.45
1:E:1660:GLU:OE2	1:E:1660:GLU:N	2.47	0.45
1:E:2073:PHE:C	1:E:2073:PHE:CD2	2.90	0.45
1:E:2225:ASP:OD2	1:E:2226:VAL:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2387:VAL:HG12	1:E:2390:LEU:H	1.82	0.45
1:A:1970:TYR:O	1:A:1970:TYR:CD2	2.63	0.44
1:C:1403:HIS:ND1	1:C:2523:GLU:OE2	2.50	0.44
1:C:1769:PHE:CD1	1:C:1770:PRO:HD2	2.52	0.44
1:C:2387:VAL:HG12	1:C:2390:LEU:H	1.82	0.44
1:C:2513:VAL:HG21	1:C:2521:LEU:HB2	1.99	0.44
1:E:2065:LEU:HB3	1:E:2066:PRO:HD3	1.98	0.44
1:A:1660:GLU:HG2	1:A:1664:ARG:NH2	2.32	0.44
1:C:1235:VAL:HG13	1:C:1239:GLN:OE1	2.18	0.44
1:C:1361:GLN:OE1	1:C:1361:GLN:HA	2.17	0.44
1:C:2309:TYR:CE2	1:C:2355:ALA:HB1	2.53	0.44
1:E:1138:ASN:O	1:E:1141:PRO:HD3	2.18	0.44
1:E:1235:VAL:HG13	1:E:1239:GLN:OE1	2.18	0.44
1:E:1361:GLN:HA	1:E:1361:GLN:OE1	2.17	0.44
1:E:2109:PHE:CZ	1:E:2110:LEU:HD11	2.53	0.44
1:A:1701:VAL:HG12	1:A:1784:LYS:HD3	1.99	0.44
1:A:2065:LEU:HB3	1:A:2066:PRO:HD3	1.98	0.44
1:A:2071:ARG:HH11	1:A:2073:PHE:HE2	1.62	0.44
1:C:1717:TRP:O	1:C:1721:THR:HG23	2.17	0.44
1:E:1301:TYR:CD1	1:E:1301:TYR:N	2.84	0.44
3:E:2608:PEE:H81	3:E:2608:PEE:C23	2.48	0.44
1:A:2309:TYR:CE2	1:A:2355:ALA:HB1	2.53	0.44
1:A:2407:ARG:NE	1:A:2426:PHE:CE2	2.84	0.44
1:C:1140:ILE:O	1:C:1143:PHE:CE1	2.71	0.44
1:C:1502:MET:O	1:C:1505:LEU:HG	2.17	0.44
1:C:2162:ILE:HD13	1:C:2162:ILE:HA	1.83	0.44
2:C:2606:PLX:H172	2:C:2606:PLX:H212	2.00	0.44
1:E:1016:TRP:CD1	1:E:1036:TYR:CD2	3.02	0.44
1:E:1140:ILE:O	1:E:1143:PHE:CE1	2.71	0.44
1:E:1769:PHE:CD1	1:E:1770:PRO:HD2	2.52	0.44
1:A:1117:GLU:CD	1:A:1118:GLU:HG2	2.38	0.44
1:A:1176:ARG:NH1	1:A:1282:TRP:HD1	2.16	0.44
1:A:1717:TRP:O	1:A:1721:THR:HG23	2.17	0.44
3:A:2606:PEE:H40	3:A:2606:PEE:H77	1.95	0.44
1:C:1143:PHE:N	1:C:1143:PHE:CD1	2.86	0.44
1:E:1073:ASN:O	1:E:1077:ILE:HG12	2.18	0.44
2:E:2605:PLX:H202	2:E:2606:PLX:H191	2.00	0.44
1:A:822:LEU:HD11	1:A:1094:LEU:HD12	2.00	0.44
1:A:1084:ASP:OD2	1:A:1086:PHE:N	2.50	0.44
1:A:2513:VAL:HG21	1:A:2521:LEU:HB2	1.99	0.44
2:A:2603:PLX:H202	2:A:2604:PLX:H191	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:822:LEU:HD11	1:C:1094:LEU:HD12	2.00	0.44
1:C:2109:PHE:CZ	1:C:2110:LEU:HD11	2.53	0.44
1:E:1117:GLU:OE2	1:E:1118:GLU:HG2	2.16	0.44
1:E:1217:ASN:O	1:E:1220:VAL:HG22	2.18	0.44
1:E:1717:TRP:O	1:E:1721:THR:HG23	2.17	0.44
1:E:2309:TYR:CE2	1:E:2355:ALA:HB1	2.53	0.44
1:E:2405:LEU:HD12	1:E:2430:TRP:CZ2	2.52	0.44
1:E:2425:ASP:HB3	1:E:2426:PHE:CD1	2.52	0.44
1:E:2513:VAL:HG21	1:E:2521:LEU:HB2	1.99	0.44
2:E:2607:PLX:H172	2:E:2607:PLX:H212	2.00	0.44
1:A:2095:TYR:CE1	2:A:2601:PLX:H31	2.53	0.44
2:A:2605:PLX:H212	2:A:2605:PLX:H172	2.00	0.44
1:C:2095:TYR:CE1	2:C:2602:PLX:H31	2.53	0.44
1:E:1117:GLU:CD	1:E:1118:GLU:HG2	2.38	0.44
1:A:1138:ASN:O	1:A:1141:PRO:HD3	2.18	0.44
1:A:2405:LEU:HD12	1:A:2430:TRP:CZ2	2.52	0.44
1:C:1005:ARG:HB2	1:C:1010:VAL:HG11	2.00	0.44
1:C:2425:ASP:HB3	1:C:2426:PHE:CD1	2.52	0.44
3:C:2607:PEE:C25	3:C:2607:PEE:C44	2.95	0.44
1:E:1502:MET:O	1:E:1505:LEU:HG	2.17	0.44
1:E:2130:PHE:HA	1:E:2133:GLU:HG2	1.99	0.44
1:E:2513:VAL:CG2	1:E:2518:GLU:HG2	2.46	0.44
1:A:1005:ARG:HB2	1:A:1010:VAL:HG11	2.00	0.44
1:A:1671:ARG:HG3	1:A:1672:THR:HG23	1.99	0.44
1:A:1710:LEU:HB3	1:A:1711:PRO:HD3	2.00	0.44
1:C:1050:LEU:HD12	1:C:1050:LEU:HA	1.90	0.44
1:C:1660:GLU:HG2	1:C:1664:ARG:NH2	2.32	0.44
1:C:1671:ARG:HG3	1:C:1672:THR:HG23	1.99	0.44
1:E:2182:LYS:HB2	1:E:2182:LYS:HE3	1.70	0.44
3:E:2608:PEE:C24	3:E:2608:PEE:C44	2.95	0.44
1:A:1217:ASN:O	1:A:1220:VAL:HG22	2.18	0.43
1:A:1235:VAL:HG13	1:A:1239:GLN:OE1	2.18	0.43
1:A:1262:LYS:HA	1:A:1265:MET:CE	2.48	0.43
1:C:1702:THR:HA	1:C:2073:PHE:CE1	2.53	0.43
1:C:1767:PRO:HB3	1:C:2071:ARG:HG2	2.00	0.43
1:C:2213:ILE:HG13	1:C:2214:ARG:N	2.32	0.43
1:E:1657:PRO:HA	1:E:1660:GLU:OE1	2.18	0.43
1:A:1657:PRO:HA	1:A:1660:GLU:OE1	2.18	0.43
1:A:1767:PRO:HB3	1:A:2071:ARG:HG2	2.00	0.43
1:A:2130:PHE:HA	1:A:2133:GLU:HG2	1.99	0.43
3:A:2606:PEE:H81	3:A:2606:PEE:C23	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1143:PHE:N	1:C:1143:PHE:HD1	2.16	0.43
1:C:1671:ARG:HA	1:C:1671:ARG:NH2	2.34	0.43
1:C:2376:ILE:O	1:C:2448:ILE:HA	2.18	0.43
1:E:1005:ARG:HB2	1:E:1010:VAL:HG11	2.00	0.43
1:E:1176:ARG:NH1	1:E:1282:TRP:HD1	2.16	0.43
1:E:2178:PRO:HD2	1:E:2181:GLN:NE2	2.33	0.43
1:E:2482:ARG:HG3	1:E:2486:SER:HB2	2.00	0.43
1:A:901:LEU:HG	1:A:1085:PHE:CD1	2.53	0.43
1:A:1710:LEU:HD12	1:A:1710:LEU:HA	1.81	0.43
1:A:2109:PHE:CZ	1:A:2110:LEU:HD11	2.53	0.43
1:A:2213:ILE:HG13	1:A:2214:ARG:N	2.32	0.43
1:C:2076:ASN:HB3	1:C:2079:ALA:HB3	2.01	0.43
1:E:901:LEU:HG	1:E:1085:PHE:CD1	2.53	0.43
1:E:2394:GLU:OE1	1:E:2398:TYR:OH	2.20	0.43
1:A:1221:ILE:HD12	1:A:1221:ILE:HA	1.84	0.43
1:A:2482:ARG:HG3	1:A:2486:SER:HB2	2.00	0.43
1:C:1953:SER:O	1:C:1957:PRO:HG2	2.18	0.43
2:C:2604:PLX:H202	2:C:2605:PLX:H191	2.00	0.43
1:E:1709:VAL:HG21	2:E:2606:PLX:H162	2.01	0.43
1:A:1140:ILE:O	1:A:1143:PHE:CE1	2.71	0.43
1:A:1140:ILE:O	1:A:1143:PHE:HE1	2.00	0.43
1:A:1143:PHE:N	1:A:1143:PHE:HD1	2.16	0.43
1:A:1198:LEU:O	1:A:1206:GLN:NE2	2.52	0.43
1:A:1221:ILE:CD1	1:A:1280:ILE:HG23	2.47	0.43
1:A:2076:ASN:HB3	1:A:2079:ALA:HB3	2.00	0.43
1:A:2177:GLN:HG3	1:A:2181:GLN:NE2	2.34	0.43
2:A:2608:PLX:C16	2:A:2608:PLX:C34	2.94	0.43
1:C:1176:ARG:NH1	1:C:1282:TRP:HD1	2.16	0.43
1:C:2230:LEU:HD11	1:C:2317:LEU:HD21	2.00	0.43
3:C:2607:PEE:H81	3:C:2607:PEE:C23	2.48	0.43
1:E:1198:LEU:O	1:E:1206:GLN:NE2	2.52	0.43
1:E:1262:LYS:HA	1:E:1265:MET:CE	2.49	0.43
1:E:2177:GLN:HG3	1:E:2181:GLN:NE2	2.34	0.43
1:A:908:PRO:HD2	1:A:914:VAL:CG1	2.49	0.43
1:A:1702:THR:HA	1:A:2073:PHE:CE1	2.53	0.43
1:A:1953:SER:O	1:A:1957:PRO:HG2	2.18	0.43
1:A:2376:ILE:O	1:A:2448:ILE:HA	2.19	0.43
1:A:2425:ASP:HB3	1:A:2426:PHE:CD1	2.52	0.43
3:A:2606:PEE:H43	3:A:2606:PEE:H38	1.83	0.43
1:C:1073:ASN:O	1:C:1077:ILE:HG12	2.18	0.43
1:C:1117:GLU:CD	1:C:1118:GLU:HG2	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1190:TYR:HD2	1:C:1191:LEU:HD22	1.83	0.43
1:C:1315:GLN:HE22	1:C:1538:ARG:HA	1.83	0.43
1:C:2016:VAL:HG12	1:C:2017:PRO:HD3	2.01	0.43
1:C:2178:PRO:HD2	1:C:2181:GLN:NE2	2.33	0.43
1:E:821:ALA:O	1:E:1048:TYR:OH	2.35	0.43
1:E:1315:GLN:HE22	1:E:1538:ARG:HA	1.83	0.43
1:E:1710:LEU:HB3	1:E:1711:PRO:HD3	2.01	0.43
1:E:1767:PRO:HB3	1:E:2071:ARG:HG2	2.00	0.43
3:E:2608:PEE:H38	3:E:2608:PEE:H43	1.83	0.43
1:A:1194:PHE:CE1	2:A:2603:PLX:H1B3	2.54	0.43
1:A:1315:GLN:HE22	1:A:1538:ARG:HA	1.83	0.43
1:A:1403:HIS:ND1	1:A:2523:GLU:OE2	2.50	0.43
1:A:2121:LEU:HD23	1:A:2121:LEU:HA	1.82	0.43
1:A:2179:LYS:HA	1:A:2179:LYS:HE2	2.01	0.43
1:C:1710:LEU:HB3	1:C:1711:PRO:HD3	2.00	0.43
1:C:2130:PHE:HA	1:C:2133:GLU:HG2	1.99	0.43
1:C:2520:GLU:O	1:C:2524:GLU:HG3	2.19	0.43
1:E:822:LEU:HD11	1:E:1094:LEU:HD12	2.00	0.43
1:E:894:LEU:H	1:E:894:LEU:HD23	1.84	0.43
1:E:1143:PHE:HD1	1:E:1143:PHE:N	2.16	0.43
1:E:1953:SER:O	1:E:1957:PRO:HG2	2.18	0.43
1:E:2076:ASN:HB3	1:E:2079:ALA:HB3	2.01	0.43
1:A:1073:ASN:O	1:A:1077:ILE:HG12	2.18	0.43
1:A:1517:THR:HG22	1:A:1675:LEU:HD13	2.01	0.43
1:C:1138:ASN:O	1:C:1141:PRO:HD3	2.18	0.43
1:C:1145:HIS:HB2	1:C:1147:ARG:HH12	1.84	0.43
1:C:1346:LYS:O	1:C:1346:LYS:HD3	2.19	0.43
1:C:1499:LEU:HA	1:C:1502:MET:HG3	2.01	0.43
1:C:1657:PRO:HA	1:C:1660:GLU:OE1	2.18	0.43
1:C:1772:ARG:HA	1:C:1777:GLU:HG2	2.00	0.43
2:C:2609:PLX:H261	2:C:2609:PLX:H292	1.78	0.43
1:E:1249:PHE:HB2	1:E:1251:LEU:CD2	2.49	0.43
1:E:1517:THR:HG22	1:E:1675:LEU:HD13	2.01	0.43
1:E:2095:TYR:CE1	2:E:2603:PLX:H31	2.53	0.43
1:A:1499:LEU:HA	1:A:1502:MET:HG3	2.01	0.43
1:A:2178:PRO:HD2	1:A:2181:GLN:NE2	2.33	0.43
3:A:2606:PEE:C25	3:A:2606:PEE:C44	2.95	0.43
1:C:901:LEU:HG	1:C:1085:PHE:CD1	2.53	0.43
1:C:908:PRO:HD2	1:C:914:VAL:CG1	2.49	0.43
1:C:1221:ILE:CD1	1:C:1280:ILE:HG23	2.47	0.43
1:E:996:LEU:HA	1:E:999:VAL:HG12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1140:ILE:O	1:E:1143:PHE:HE1	2.00	0.43
1:E:1143:PHE:N	1:E:1143:PHE:CD1	2.86	0.43
1:E:1349:MET:HE1	1:E:2518:GLU:HG3	2.00	0.43
1:E:1702:THR:HA	1:E:2073:PHE:CE1	2.53	0.43
1:E:2162:ILE:HD13	1:E:2162:ILE:HA	1.83	0.43
1:E:2520:GLU:O	1:E:2524:GLU:HG3	2.19	0.43
1:A:1204:ARG:O	1:A:1207:LEU:HG	2.19	0.43
1:A:1671:ARG:NH2	1:A:1671:ARG:HA	2.34	0.43
1:A:2144:ASP:HB2	1:E:2182:LYS:HD2	2.01	0.43
1:C:1134:ARG:HG3	1:C:1137:PRO:HG3	2.00	0.43
1:C:1194:PHE:CE1	2:C:2604:PLX:H1B3	2.54	0.43
1:C:1262:LYS:HA	1:C:1265:MET:CE	2.49	0.43
1:C:1706:ALA:HB1	1:C:1740:MET:SD	2.59	0.43
1:C:1709:VAL:HG21	2:C:2605:PLX:H162	2.01	0.43
1:E:1134:ARG:HG3	1:E:1137:PRO:HG3	2.00	0.43
1:E:1706:ALA:HB1	1:E:1740:MET:SD	2.59	0.43
1:E:2407:ARG:NE	1:E:2426:PHE:CE2	2.84	0.43
1:A:894:LEU:HD23	1:A:894:LEU:H	1.84	0.42
3:A:2606:PEE:C24	3:A:2606:PEE:H77	2.48	0.42
1:C:996:LEU:HA	1:C:999:VAL:HG12	2.01	0.42
1:C:1217:ASN:O	1:C:1220:VAL:HG22	2.18	0.42
2:C:2604:PLX:H1C3	2:C:2604:PLX:H21	1.79	0.42
1:E:1699:HIS:HE1	1:E:1708:LEU:HB2	1.84	0.42
1:E:2230:LEU:HD11	1:E:2317:LEU:HD21	2.01	0.42
3:E:2608:PEE:C24	3:E:2608:PEE:H77	2.48	0.42
1:A:1143:PHE:N	1:A:1143:PHE:CD1	2.86	0.42
1:C:1140:ILE:O	1:C:1143:PHE:HE1	2.00	0.42
1:C:1204:ARG:O	1:C:1207:LEU:HG	2.19	0.42
1:E:897:ASN:CG	1:E:898:GLN:H	2.21	0.42
1:E:908:PRO:HD2	1:E:914:VAL:CG1	2.49	0.42
1:E:1190:TYR:HD2	1:E:1191:LEU:HD22	1.83	0.42
1:E:1222:ILE:HD13	1:E:1222:ILE:HA	1.85	0.42
1:E:1671:ARG:HA	1:E:1671:ARG:NH2	2.34	0.42
1:E:2016:VAL:HG12	1:E:2017:PRO:HD3	2.01	0.42
1:E:2376:ILE:O	1:E:2448:ILE:HA	2.18	0.42
1:A:1772:ARG:HA	1:A:1777:GLU:HG2	2.01	0.42
1:A:2016:VAL:HG12	1:A:2017:PRO:HD3	2.01	0.42
1:C:1249:PHE:HB2	1:C:1251:LEU:CD2	2.49	0.42
1:C:2060:TRP:CE3	1:C:2061:MET:HE2	2.54	0.42
1:E:848:MET:H	1:E:848:MET:HG2	1.54	0.42
1:E:1086:PHE:CD1	1:E:1087:ARG:HG3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1194:PHE:CE1	2:E:2605:PLX:H1B3	2.54	0.42
1:E:1346:LYS:O	1:E:1346:LYS:HD3	2.19	0.42
1:E:2092:LEU:HD11	2:E:2603:PLX:H121	2.02	0.42
1:E:2405:LEU:HD21	1:E:2407:ARG:HD3	2.02	0.42
1:A:1050:LEU:HD12	1:A:1050:LEU:HA	1.90	0.42
1:A:1706:ALA:HB1	1:A:1740:MET:SD	2.59	0.42
1:A:1979:LEU:HD13	2:A:2601:PLX:H102	2.01	0.42
1:A:2230:LEU:HD11	1:A:2317:LEU:HD21	2.00	0.42
1:A:2325:ARG:HE	1:A:2325:ARG:HB2	1.70	0.42
1:C:821:ALA:O	1:C:1048:TYR:OH	2.35	0.42
1:C:2177:GLN:HG3	1:C:2181:GLN:NE2	2.34	0.42
1:C:2268:LEU:O	1:C:2271:GLN:HG3	2.20	0.42
1:E:1671:ARG:HG3	1:E:1672:THR:HG23	1.99	0.42
1:A:821:ALA:O	1:A:1048:TYR:OH	2.35	0.42
1:A:1143:PHE:HD2	1:A:1154:LYS:HB3	1.81	0.42
1:A:1249:PHE:HB2	1:A:1251:LEU:CD2	2.49	0.42
1:A:2286:ILE:HG13	1:A:2444:LEU:HB2	2.02	0.42
1:A:2405:LEU:HD21	1:A:2407:ARG:HD3	2.02	0.42
2:A:2602:PLX:H6	2:A:2602:PLX:H52	1.77	0.42
1:C:1517:THR:HG22	1:C:1675:LEU:HD13	2.01	0.42
1:C:2169:ARG:NH2	1:C:2497:LEU:O	2.46	0.42
1:E:2268:LEU:O	1:E:2271:GLN:HG3	2.20	0.42
2:E:2601:PLX:H361	2:E:2601:PLX:C16	2.36	0.42
1:A:1134:ARG:HG3	1:A:1137:PRO:HG3	2.00	0.42
1:A:1691:CYS:SG	1:A:1793:LEU:HD23	2.59	0.42
1:A:2516:THR:O	1:A:2517:ARG:HB2	2.19	0.42
1:C:1086:PHE:CD1	1:C:1087:ARG:HG3	2.54	0.42
1:C:2179:LYS:HE2	1:C:2179:LYS:HA	2.01	0.42
1:C:2482:ARG:HG3	1:C:2486:SER:HB2	2.00	0.42
1:E:946:HIS:O	1:E:950:GLN:N	2.47	0.42
1:E:1204:ARG:O	1:E:1207:LEU:HG	2.19	0.42
1:A:1145:HIS:HB2	1:A:1147:ARG:HH12	1.84	0.42
1:A:1346:LYS:O	1:A:1346:LYS:HD3	2.19	0.42
1:A:1980:MET:HE3	1:A:1980:MET:HB3	1.86	0.42
1:A:2092:LEU:HD11	2:A:2601:PLX:H121	2.02	0.42
1:A:2146:THR:HG22	1:E:2181:GLN:O	2.20	0.42
1:C:1198:LEU:O	1:C:1206:GLN:NE2	2.52	0.42
1:C:1691:CYS:SG	1:C:1793:LEU:HD23	2.59	0.42
1:C:2197:LEU:HD22	2:C:2609:PLX:C38	2.49	0.42
1:E:1005:ARG:NH1	1:E:1047:GLN:NE2	2.67	0.42
1:E:1784:LYS:O	1:E:1785:TYR:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2060:TRP:CE3	1:E:2061:MET:HE2	2.54	0.42
1:E:2438:LYS:HE2	1:E:2438:LYS:HB3	1.77	0.42
1:A:1709:VAL:HG21	2:A:2604:PLX:H162	2.01	0.42
1:A:1784:LYS:O	1:A:1785:TYR:HB2	2.20	0.42
1:A:2268:LEU:O	1:A:2271:GLN:HG3	2.20	0.42
1:A:2470:TYR:O	1:A:2473:ILE:HG22	2.20	0.42
1:C:894:LEU:H	1:C:894:LEU:HD23	1.84	0.42
1:C:1328:LEU:O	1:C:1331:ILE:HG22	2.20	0.42
1:C:2405:LEU:HD21	1:C:2407:ARG:HD3	2.02	0.42
1:E:1221:ILE:CD1	1:E:1280:ILE:HG23	2.47	0.42
1:E:1770:PRO:HB2	1:E:1771:PRO:HD3	2.01	0.42
1:E:1979:LEU:HD13	2:E:2603:PLX:H102	2.01	0.42
1:E:2354:LEU:HD23	1:E:2354:LEU:HA	1.92	0.42
2:E:2601:PLX:H92	2:E:2601:PLX:O6	2.20	0.42
2:E:2605:PLX:H21	2:E:2605:PLX:H1C3	1.79	0.42
1:A:1190:TYR:HD2	1:A:1191:LEU:HD22	1.83	0.42
1:A:2197:LEU:HD22	2:A:2608:PLX:C38	2.50	0.42
1:C:1770:PRO:HB2	1:C:1771:PRO:HD3	2.01	0.42
1:C:1985:ILE:HD13	1:C:1985:ILE:HA	1.89	0.42
1:C:2073:PHE:C	1:C:2073:PHE:HD2	2.23	0.42
1:C:2092:LEU:HD11	2:C:2602:PLX:H121	2.01	0.42
1:E:1145:HIS:HB2	1:E:1147:ARG:HH12	1.84	0.42
1:E:2516:THR:O	1:E:2517:ARG:HB2	2.19	0.42
1:A:996:LEU:HA	1:A:999:VAL:HG12	2.01	0.42
1:A:1007:ASN:H	1:A:1010:VAL:CG2	2.33	0.42
1:A:1094:LEU:HD23	1:A:1094:LEU:HA	1.77	0.42
1:A:1705:ALA:HA	1:A:1708:LEU:HB3	2.02	0.42
1:C:897:ASN:CG	1:C:898:GLN:H	2.21	0.42
1:C:1729:PHE:O	1:C:1732:THR:HG22	2.20	0.42
1:C:2182:LYS:HB2	1:C:2182:LYS:HE3	1.69	0.42
1:C:2516:THR:O	1:C:2517:ARG:HB2	2.19	0.42
2:C:2609:PLX:H92	2:C:2609:PLX:O6	2.20	0.42
1:E:1499:LEU:HA	1:E:1502:MET:HG3	2.01	0.42
1:E:2121:LEU:HD23	1:E:2121:LEU:HA	1.82	0.42
1:A:1328:LEU:O	1:A:1331:ILE:HG22	2.20	0.41
1:A:2110:LEU:HD23	1:A:2121:LEU:HB3	2.02	0.41
1:A:2256:TYR:OH	1:A:2273:ILE:O	2.31	0.41
1:C:1979:LEU:HD13	2:C:2602:PLX:H102	2.01	0.41
1:C:1981:PHE:CD2	3:C:2607:PEE:H13	2.55	0.41
1:C:2182:LYS:HD2	1:E:2144:ASP:HB2	2.01	0.41
1:A:946:HIS:O	1:A:950:GLN:N	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1981:PHE:CD2	3:A:2606:PEE:H13	2.55	0.41
1:A:2073:PHE:C	1:A:2073:PHE:HD2	2.23	0.41
1:A:2520:GLU:O	1:A:2524:GLU:HG3	2.19	0.41
2:A:2608:PLX:H92	2:A:2608:PLX:O6	2.20	0.41
1:C:2286:ILE:HG13	1:C:2444:LEU:HB2	2.02	0.41
2:C:2609:PLX:C16	2:C:2609:PLX:C34	2.94	0.41
1:E:1328:LEU:O	1:E:1331:ILE:HG22	2.20	0.41
1:E:1649:LEU:HD13	1:E:1649:LEU:HA	1.91	0.41
1:E:1719:MET:O	1:E:1720:LEU:HD23	2.20	0.41
1:E:1729:PHE:O	1:E:1732:THR:HG22	2.20	0.41
1:E:2041:LYS:HA	1:E:2101:TYR:HD2	1.84	0.41
2:E:2601:PLX:H292	2:E:2601:PLX:H261	1.78	0.41
3:E:2608:PEE:C25	3:E:2608:PEE:C44	2.95	0.41
1:A:1086:PHE:CD1	1:A:1087:ARG:HG3	2.54	0.41
1:A:1315:GLN:NE2	1:A:1538:ARG:HA	2.35	0.41
1:C:2131:LEU:HD23	1:C:2131:LEU:HA	1.70	0.41
1:E:1697:LEU:HD23	1:E:1697:LEU:HA	1.87	0.41
1:E:1705:ALA:HA	1:E:1708:LEU:HB3	2.02	0.41
1:E:1772:ARG:HA	1:E:1777:GLU:HG2	2.01	0.41
1:E:2071:ARG:NH1	1:E:2074:SER:HB2	2.35	0.41
1:E:2179:LYS:HE2	1:E:2179:LYS:HA	2.01	0.41
1:A:1222:ILE:HD13	1:A:1222:ILE:HA	1.85	0.41
1:A:1770:PRO:HB2	1:A:1771:PRO:HD3	2.01	0.41
2:A:2608:PLX:H151	1:C:2033:ILE:HG13	2.03	0.41
1:C:2438:LYS:HB3	1:C:2438:LYS:HE2	1.77	0.41
2:C:2606:PLX:H292	2:C:2606:PLX:H261	1.68	0.41
1:E:1007:ASN:H	1:E:1010:VAL:CG2	2.33	0.41
1:E:1016:TRP:O	1:E:1020:ILE:HG12	2.21	0.41
1:E:1194:PHE:CE1	2:E:2605:PLX:C1B	3.04	0.41
1:E:1403:HIS:ND1	1:E:2523:GLU:OE2	2.50	0.41
1:E:1691:CYS:SG	1:E:1793:LEU:HD23	2.59	0.41
1:E:2073:PHE:C	1:E:2073:PHE:HD2	2.24	0.41
1:A:1719:MET:O	1:A:1720:LEU:HD23	2.21	0.41
1:C:1194:PHE:CE1	2:C:2604:PLX:C1B	3.04	0.41
1:C:1699:HIS:HE1	1:C:1708:LEU:HB2	1.84	0.41
1:C:1747:PHE:CG	1:C:1776:LEU:HD12	2.56	0.41
3:C:2607:PEE:H40	3:C:2607:PEE:H77	1.94	0.41
2:C:2609:PLX:H151	1:E:2033:ILE:HG13	2.03	0.41
1:E:1969:LYS:O	1:E:1971:ARG:NH1	2.53	0.41
1:A:1699:HIS:HE1	1:A:1708:LEU:HB2	1.84	0.41
1:A:2245:GLN:HB2	1:A:2246:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1021:LEU:HD23	1:C:1021:LEU:HA	1.77	0.41
1:C:2071:ARG:NH1	1:C:2074:SER:HB2	2.35	0.41
3:C:2607:PEE:C24	3:C:2607:PEE:H77	2.48	0.41
1:E:2110:LEU:HD23	1:E:2121:LEU:HB3	2.02	0.41
1:E:2315:ILE:HG22	1:E:2344:LEU:HB2	2.03	0.41
1:A:897:ASN:CG	1:A:898:GLN:H	2.21	0.41
1:A:2041:LYS:HA	1:A:2101:TYR:HD2	1.84	0.41
1:A:2046:LYS:HZ1	1:A:2093:SER:HB2	1.85	0.41
1:A:2181:GLN:O	1:C:2146:THR:HG22	2.21	0.41
1:A:2336:THR:HG22	1:A:2384:ALA:HB2	2.03	0.41
1:A:2546:ARG:HA	1:A:2546:ARG:HD3	1.85	0.41
1:C:1007:ASN:H	1:C:1010:VAL:CG2	2.33	0.41
1:C:1315:GLN:NE2	1:C:1538:ARG:HA	2.35	0.41
1:C:1687:SER:HG	1:C:1796:HIS:CE1	2.31	0.41
3:C:2607:PEE:H43	3:C:2607:PEE:H38	1.83	0.41
1:A:996:LEU:HA	1:A:996:LEU:HD23	1.86	0.41
1:A:2182:LYS:HD2	1:C:2144:ASP:HB2	2.02	0.41
1:A:2490:HIS:CD2	1:C:2494:PHE:CD2	3.09	0.41
1:C:1315:GLN:NE2	1:C:1538:ARG:HG3	2.36	0.41
1:C:1784:LYS:O	1:C:1785:TYR:HB2	2.20	0.41
1:E:2256:TYR:OH	1:E:2273:ILE:O	2.31	0.41
1:A:1301:TYR:CD1	1:A:1301:TYR:N	2.84	0.41
1:A:1411:ASP:HB3	1:A:1413:PHE:CD2	2.56	0.41
1:A:1552:ARG:HG2	1:A:1553:ARG:NH1	2.36	0.41
1:A:1729:PHE:O	1:A:1732:THR:HG22	2.20	0.41
1:A:1761:ARG:HD2	1:A:1761:ARG:C	2.41	0.41
1:A:2081:LEU:HA	1:A:2081:LEU:HD12	1.87	0.41
1:A:2494:PHE:CD2	1:E:2490:HIS:CD2	3.09	0.41
1:C:813:VAL:HG13	1:C:836:TRP:CH2	2.56	0.41
1:C:1160:TYR:O	2:C:2603:PLX:H342	2.20	0.41
1:C:1530:MET:SD	1:C:1803:TYR:CZ	3.14	0.41
1:C:1688:GLU:HG2	1:C:1692:TYR:CE2	2.56	0.41
1:C:2024:LEU:HA	1:C:2024:LEU:HD12	1.90	0.41
1:C:2110:LEU:HD23	1:C:2121:LEU:HB3	2.02	0.41
1:C:2315:ILE:HG22	1:C:2344:LEU:HB2	2.03	0.41
1:E:915:ARG:O	1:E:915:ARG:HG3	2.21	0.41
1:E:1315:GLN:NE2	1:E:1538:ARG:HA	2.35	0.41
1:E:2081:LEU:HA	1:E:2081:LEU:HD12	1.87	0.41
1:E:2376:ILE:HG13	1:E:2446:MET:CE	2.51	0.41
1:A:813:VAL:HG13	1:A:836:TRP:CH2	2.56	0.41
1:A:1194:PHE:CE1	2:A:2603:PLX:C1B	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2251:PHE:HE2	1:A:2447:VAL:HG13	1.86	0.41
1:A:2257:GLU:OE1	1:A:2257:GLU:HA	2.21	0.41
1:C:2376:ILE:HG13	1:C:2446:MET:CE	2.51	0.41
3:C:2607:PEE:H82	3:C:2607:PEE:C40	2.51	0.41
1:E:1084:ASP:OD2	1:E:1086:PHE:N	2.50	0.41
1:E:1160:TYR:O	2:E:2604:PLX:H342	2.20	0.41
1:E:1411:ASP:HB3	1:E:1413:PHE:CD2	2.56	0.41
3:E:2608:PEE:H82	3:E:2608:PEE:C40	2.51	0.41
1:A:1160:TYR:O	2:A:2602:PLX:H342	2.20	0.40
1:A:1530:MET:SD	1:A:1803:TYR:CZ	3.14	0.40
1:A:2071:ARG:NH1	1:A:2074:SER:HB2	2.35	0.40
1:A:2315:ILE:HG22	1:A:2344:LEU:HB2	2.03	0.40
1:C:1411:ASP:HB3	1:C:1413:PHE:CD2	2.56	0.40
1:E:813:VAL:HG13	1:E:836:TRP:CH2	2.56	0.40
1:E:1246:ILE:HD13	1:E:1246:ILE:HG21	1.86	0.40
1:E:1287:PHE:O	1:E:1291:LEU:HD23	2.21	0.40
1:E:1303:LEU:O	1:E:1306:SER:OG	2.28	0.40
1:A:1005:ARG:NH1	1:A:1047:GLN:NE2	2.67	0.40
1:A:1016:TRP:O	1:A:1020:ILE:HG12	2.21	0.40
1:A:1315:GLN:NE2	1:A:1538:ARG:HG3	2.36	0.40
1:A:1969:LYS:O	1:A:1971:ARG:NH1	2.53	0.40
1:A:2391:GLN:HB3	1:A:2397:ASP:HB2	2.03	0.40
1:C:1016:TRP:O	1:C:1020:ILE:HG12	2.21	0.40
1:C:2181:GLN:O	1:E:2146:THR:HG22	2.21	0.40
1:C:2257:GLU:HA	1:C:2257:GLU:OE1	2.21	0.40
1:C:2336:THR:HG22	1:C:2384:ALA:HB2	2.03	0.40
1:C:2470:TYR:O	1:C:2473:ILE:HG22	2.20	0.40
1:E:1294:ARG:O	1:E:1298:LEU:HD23	2.22	0.40
1:E:1315:GLN:NE2	1:E:1538:ARG:HG3	2.36	0.40
1:E:1530:MET:SD	1:E:1803:TYR:CZ	3.14	0.40
1:E:1552:ARG:HG2	1:E:1553:ARG:NH1	2.36	0.40
1:E:2197:LEU:HD22	2:E:2601:PLX:C38	2.49	0.40
1:E:2245:GLN:HB2	1:E:2246:PRO:HD3	2.03	0.40
1:E:2251:PHE:HE2	1:E:2447:VAL:HG13	1.86	0.40
1:A:915:ARG:HG3	1:A:915:ARG:O	2.21	0.40
1:A:1772:ARG:HD3	1:A:2071:ARG:HD3	2.03	0.40
1:A:1988:ILE:HD11	1:A:2031:MET:SD	2.61	0.40
1:C:1719:MET:O	1:C:1720:LEU:HD23	2.21	0.40
1:C:1761:ARG:HD2	1:C:1761:ARG:C	2.41	0.40
1:C:1969:LYS:O	1:C:1971:ARG:NH1	2.53	0.40
1:C:2370:HIS:CE1	1:C:2396:GLU:HA	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:2604:PLX:H171	2:C:2604:PLX:H142	1.92	0.40
1:E:1688:GLU:HG2	1:E:1692:TYR:CE2	2.56	0.40
1:E:1988:ILE:HD11	1:E:2031:MET:SD	2.61	0.40
1:E:2257:GLU:HA	1:E:2257:GLU:OE1	2.21	0.40
1:A:1747:PHE:CG	1:A:1776:LEU:HD12	2.56	0.40
1:A:2033:ILE:HG13	2:E:2601:PLX:H151	2.03	0.40
1:E:1747:PHE:CG	1:E:1776:LEU:HD12	2.56	0.40
1:E:2046:LYS:HZ1	1:E:2093:SER:HB2	1.85	0.40
1:E:2169:ARG:NH2	1:E:2497:LEU:O	2.45	0.40
1:E:2470:TYR:O	1:E:2473:ILE:HG22	2.20	0.40
2:E:2605:PLX:H171	2:E:2605:PLX:H142	1.92	0.40
1:A:1648:LEU:HD12	1:A:1648:LEU:HA	1.89	0.40
1:A:1688:GLU:HG2	1:A:1692:TYR:CE2	2.56	0.40
1:A:2138:MET:HE2	3:A:2606:PEE:H54	2.03	0.40
1:A:2370:HIS:CE1	1:A:2396:GLU:HA	2.57	0.40
1:A:2376:ILE:HG13	1:A:2446:MET:CE	2.51	0.40
1:C:2223:PRO:HG3	1:C:2448:ILE:HD11	2.04	0.40
1:E:2241:MET:HE1	1:E:2291:GLY:HA2	2.04	0.40
1:E:2286:ILE:HG21	1:E:2286:ILE:HD13	1.87	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	1329/2547 (52%)	1248 (94%)	79 (6%)	2 (0%)	47 80
1	C	1329/2547 (52%)	1248 (94%)	79 (6%)	2 (0%)	47 80
1	E	1329/2547 (52%)	1248 (94%)	79 (6%)	2 (0%)	47 80
All	All	3987/7641 (52%)	3744 (94%)	237 (6%)	6 (0%)	50 80

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1785	TYR
1	C	1785	TYR
1	E	1785	TYR
1	A	1259	TYR
1	C	1259	TYR
1	E	1259	TYR

### 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	1128/2246 (50%)	1117 (99%)	11 (1%)	76 89
1	C	1128/2246 (50%)	1117 (99%)	11 (1%)	76 89
1	E	1128/2246 (50%)	1117 (99%)	11 (1%)	76 89
All	All	3384/6738 (50%)	3351 (99%)	33 (1%)	77 89

All (33) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	848	MET
1	A	1031	ARG
1	A	1143	PHE
1	A	1238	MET
1	A	1516	LEU
1	A	1664	ARG
1	A	1731	MET
1	A	1970	TYR
1	A	1971	ARG
1	A	2073	PHE
1	A	2270	MET
1	C	848	MET
1	C	1031	ARG
1	C	1143	PHE
1	C	1238	MET
1	C	1516	LEU
1	C	1664	ARG

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Mol	Chain	Res	Type
1	C	1731	MET
1	C	1970	TYR
1	C	1971	ARG
1	C	2073	PHE
1	C	2270	MET
1	E	848	MET
1	E	1031	ARG
1	E	1143	PHE
1	E	1238	MET
1	E	1516	LEU
1	E	1664	ARG
1	E	1731	MET
1	E	1970	TYR
1	E	1971	ARG
1	E	2073	PHE
1	E	2270	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1047	GLN
1	A	1225	ASN
1	A	1315	GLN
1	C	1047	GLN
1	C	1225	ASN
1	C	1315	GLN
1	E	1047	GLN
1	E	1225	ASN
1	E	1315	GLN

### 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](#)

27 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	PLX	E	2607	-	51,51,51	1.14	4 (7%)	55,59,59	0.76	0
4	P5S	A	2607	-	52,53,53	0.81	3 (5%)	56,60,60	0.98	2 (3%)
3	PEE	C	2607	-	50,50,50	1.18	6 (12%)	53,55,55	1.25	6 (11%)
2	PLX	C	2604	-	51,51,51	0.63	0	55,59,59	0.69	0
2	PLX	C	2602	-	51,51,51	1.10	4 (7%)	55,59,59	0.80	0
2	PLX	A	2605	-	51,51,51	1.14	4 (7%)	55,59,59	0.76	0
2	PLX	C	2601	-	51,51,51	1.13	4 (7%)	55,59,59	0.90	2 (3%)
4	P5S	E	2609	-	52,53,53	0.81	3 (5%)	56,60,60	0.98	2 (3%)
2	PLX	A	2609	-	51,51,51	1.13	4 (7%)	55,59,59	0.90	2 (3%)
2	PLX	E	2603	-	51,51,51	1.10	4 (7%)	55,59,59	0.80	0
2	PLX	C	2603	-	51,51,51	1.09	3 (5%)	55,59,59	0.96	2 (3%)
2	PLX	A	2604	-	51,51,51	1.13	3 (5%)	55,59,59	0.92	1 (1%)
4	P5S	C	2608	-	52,53,53	0.81	3 (5%)	56,60,60	0.98	2 (3%)
2	PLX	E	2604	-	51,51,51	1.09	3 (5%)	55,59,59	0.96	2 (3%)
2	PLX	A	2603	-	51,51,51	0.63	0	55,59,59	0.69	0
2	PLX	E	2602	-	51,51,51	1.13	4 (7%)	55,59,59	0.90	2 (3%)
2	PLX	C	2605	-	51,51,51	1.13	3 (5%)	55,59,59	0.92	1 (1%)
2	PLX	C	2609	-	51,51,51	0.63	0	55,59,59	0.68	1 (1%)
2	PLX	E	2606	-	51,51,51	1.13	3 (5%)	55,59,59	0.92	1 (1%)
2	PLX	E	2601	-	51,51,51	0.63	0	55,59,59	0.68	1 (1%)
2	PLX	C	2606	-	51,51,51	1.14	4 (7%)	55,59,59	0.76	0
3	PEE	E	2608	-	50,50,50	1.17	6 (12%)	53,55,55	1.25	6 (11%)



Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	PLX	A	2602	-	51,51,51	1.09	3 (5%)	55,59,59	0.96	2 (3%)
2	PLX	A	2608	-	51,51,51	0.63	0	55,59,59	0.68	1 (1%)
2	PLX	A	2601	-	51,51,51	1.10	4 (7%)	55,59,59	0.80	0
2	PLX	E	2605	-	51,51,51	0.63	0	55,59,59	0.69	0
3	PEE	A	2606	-	50,50,50	1.17	6 (12%)	53,55,55	1.25	6 (11%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	PLX	E	2607	-	-	20/55/55/55	-
4	P5S	A	2607	-	-	8/59/59/59	-
3	PEE	C	2607	-	-	29/54/54/54	-
2	PLX	C	2604	-	-	13/55/55/55	-
2	PLX	C	2602	-	-	30/55/55/55	-
2	PLX	A	2605	-	-	20/55/55/55	-
2	PLX	C	2601	-	-	9/55/55/55	-
4	P5S	E	2609	-	-	8/59/59/59	-
2	PLX	A	2609	-	-	9/55/55/55	-
2	PLX	E	2603	-	-	30/55/55/55	-
2	PLX	C	2603	-	-	12/55/55/55	-
2	PLX	A	2604	-	-	7/55/55/55	-
4	P5S	C	2608	-	-	8/59/59/59	-
2	PLX	E	2604	-	-	12/55/55/55	-
2	PLX	A	2603	-	-	13/55/55/55	-
2	PLX	E	2602	-	-	9/55/55/55	-
2	PLX	C	2605	-	-	7/55/55/55	-
2	PLX	C	2609	-	-	18/55/55/55	-
2	PLX	E	2606	-	-	7/55/55/55	-
2	PLX	E	2601	-	-	18/55/55/55	-
2	PLX	C	2606	-	-	20/55/55/55	-
3	PEE	E	2608	-	-	29/54/54/54	-
2	PLX	A	2602	-	-	12/55/55/55	-
2	PLX	A	2608	-	-	18/55/55/55	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	PLX	A	2601	-	-	30/55/55/55	-
2	PLX	E	2605	-	-	13/55/55/55	-
3	PEE	A	2606	-	-	29/54/54/54	-

All (81) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	E	2608	PEE	C39-C38	3.68	1.53	1.31
3	A	2606	PEE	C39-C38	3.67	1.53	1.31
3	C	2607	PEE	C39-C38	3.66	1.53	1.31
2	E	2606	PLX	O6-C4	-3.60	1.39	1.44
2	A	2604	PLX	O6-C4	-3.58	1.39	1.44
2	C	2605	PLX	O6-C4	-3.57	1.39	1.44
3	A	2606	PEE	C18-C19	3.49	1.52	1.31
3	E	2608	PEE	C18-C19	3.48	1.52	1.31
3	C	2607	PEE	C18-C19	3.48	1.52	1.31
2	C	2601	PLX	O6-C4	-3.45	1.39	1.44
2	E	2602	PLX	O6-C4	-3.45	1.39	1.44
2	A	2609	PLX	O6-C4	-3.43	1.40	1.44
2	A	2602	PLX	O6-C4	-3.32	1.40	1.44
2	E	2604	PLX	O6-C4	-3.32	1.40	1.44
2	C	2603	PLX	O6-C4	-3.31	1.40	1.44
3	E	2608	PEE	P-O4P	3.05	1.71	1.59
3	C	2607	PEE	P-O4P	3.04	1.71	1.59
3	A	2606	PEE	P-O4P	3.04	1.71	1.59
4	A	2607	P5S	P12-O16	2.92	1.71	1.59
4	C	2608	P5S	P12-O16	2.92	1.71	1.59
4	E	2609	P5S	P12-O16	2.91	1.71	1.59
2	A	2605	PLX	O6-C4	-2.83	1.40	1.44
2	C	2606	PLX	O6-C4	-2.83	1.40	1.44
2	E	2607	PLX	O6-C4	-2.79	1.40	1.44
2	A	2601	PLX	C7-C6	2.74	1.56	1.50
2	E	2603	PLX	C7-C6	2.73	1.56	1.50
2	C	2602	PLX	C7-C6	2.73	1.56	1.50
3	C	2607	PEE	O3-C3	-2.70	1.39	1.45
3	E	2608	PEE	O3-C3	-2.69	1.39	1.45
3	A	2606	PEE	O3-C3	-2.68	1.39	1.45
2	A	2605	PLX	C7-C6	2.54	1.56	1.50
2	E	2607	PLX	C7-C6	2.54	1.56	1.50
2	C	2606	PLX	C7-C6	2.54	1.56	1.50
2	C	2602	PLX	P1-O4	2.39	1.69	1.59
3	C	2607	PEE	O4P-C4	-2.39	1.35	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	E	2608	PEE	O3-C30	2.38	1.40	1.33
2	A	2601	PLX	P1-O4	2.38	1.68	1.59
3	A	2606	PEE	O4P-C4	-2.38	1.35	1.44
3	C	2607	PEE	O3-C30	2.38	1.40	1.33
3	A	2606	PEE	O3-C30	2.38	1.40	1.33
2	E	2603	PLX	P1-O4	2.37	1.68	1.59
3	E	2608	PEE	O4P-C4	-2.37	1.35	1.44
2	E	2607	PLX	P1-O4	2.37	1.68	1.59
2	A	2605	PLX	P1-O4	2.35	1.68	1.59
2	A	2609	PLX	C7-C6	2.35	1.55	1.50
2	E	2602	PLX	C7-C6	2.34	1.55	1.50
2	C	2601	PLX	C7-C6	2.34	1.55	1.50
2	C	2606	PLX	P1-O4	2.33	1.68	1.59
2	E	2606	PLX	P1-O4	2.27	1.68	1.59
2	A	2604	PLX	P1-O4	2.27	1.68	1.59
2	C	2605	PLX	P1-O4	2.26	1.68	1.59
2	C	2601	PLX	P1-O4	2.26	1.68	1.59
2	A	2609	PLX	P1-O4	2.26	1.68	1.59
2	E	2602	PLX	P1-O4	2.26	1.68	1.59
2	C	2603	PLX	P1-O4	2.25	1.68	1.59
2	A	2602	PLX	P1-O4	2.24	1.68	1.59
2	E	2604	PLX	P1-O4	2.23	1.68	1.59
4	A	2607	P5S	O16-C3	-2.21	1.36	1.44
4	C	2608	P5S	O16-C3	-2.20	1.36	1.44
4	E	2609	P5S	O16-C3	-2.19	1.36	1.44
2	C	2602	PLX	O6-C4	-2.14	1.41	1.44
2	A	2601	PLX	O6-C4	-2.13	1.41	1.44
2	E	2606	PLX	C7-C6	2.12	1.55	1.50
2	A	2604	PLX	C7-C6	2.10	1.55	1.50
2	C	2606	PLX	P1-O1	2.10	1.67	1.59
4	C	2608	P5S	O19-C1	-2.10	1.40	1.45
2	E	2603	PLX	P1-O1	2.10	1.67	1.59
2	C	2602	PLX	P1-O1	2.10	1.67	1.59
2	E	2607	PLX	P1-O1	2.09	1.67	1.59
2	A	2605	PLX	P1-O1	2.09	1.67	1.59
2	C	2605	PLX	C7-C6	2.09	1.55	1.50
4	A	2607	P5S	O19-C1	-2.09	1.40	1.45
2	A	2601	PLX	P1-O1	2.09	1.67	1.59
2	E	2602	PLX	P1-O1	2.08	1.67	1.59
2	C	2601	PLX	P1-O1	2.07	1.67	1.59
2	A	2609	PLX	P1-O1	2.07	1.67	1.59
2	E	2603	PLX	O6-C4	-2.06	1.41	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	2602	PLX	C7-C6	2.05	1.55	1.50
4	E	2609	P5S	O19-C1	-2.05	1.40	1.45
2	C	2603	PLX	C7-C6	2.04	1.55	1.50
2	E	2604	PLX	C7-C6	2.03	1.55	1.50

All (42) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	2606	PEE	O2P-P-O1P	3.32	128.63	112.24
3	E	2608	PEE	O2P-P-O1P	3.31	128.59	112.24
3	C	2607	PEE	O2P-P-O1P	3.31	128.59	112.24
4	C	2608	P5S	O15-P12-O13	2.64	125.27	112.24
4	A	2607	P5S	O15-P12-O13	2.63	125.27	112.24
4	E	2609	P5S	O15-P12-O13	2.63	125.26	112.24
2	C	2603	PLX	C8-C7-C6	-2.62	107.32	113.38
2	A	2602	PLX	C8-C7-C6	-2.62	107.33	113.38
2	E	2606	PLX	C8-C7-C6	-2.61	107.34	113.38
2	A	2604	PLX	C8-C7-C6	-2.61	107.34	113.38
2	E	2604	PLX	C8-C7-C6	-2.61	107.35	113.38
2	C	2605	PLX	C8-C7-C6	-2.61	107.35	113.38
3	A	2606	PEE	O4P-P-O1P	-2.37	99.80	109.07
3	C	2607	PEE	O4P-P-O1P	-2.37	99.81	109.07
3	E	2608	PEE	O4P-P-O1P	-2.37	99.82	109.07
3	C	2607	PEE	C2-O2-C10	2.30	123.45	117.79
3	A	2606	PEE	C2-O2-C10	2.29	123.43	117.79
3	E	2608	PEE	C2-O2-C10	2.29	123.42	117.79
2	A	2609	PLX	C8-C7-C6	-2.28	108.11	113.38
2	E	2602	PLX	C8-C7-C6	-2.28	108.11	113.38
2	C	2601	PLX	C8-C7-C6	-2.27	108.13	113.38
3	C	2607	PEE	C3-O3-C30	-2.23	108.88	117.12
3	A	2606	PEE	C3-O3-C30	-2.22	108.89	117.12
3	E	2608	PEE	C3-O3-C30	-2.22	108.90	117.12
3	C	2607	PEE	C12-C11-C10	-2.20	105.61	113.62
3	A	2606	PEE	C12-C11-C10	-2.20	105.63	113.62
3	E	2608	PEE	C12-C11-C10	-2.19	105.66	113.62
2	C	2603	PLX	C6-O6-C4	-2.18	110.86	115.20
2	A	2602	PLX	C6-O6-C4	-2.17	110.87	115.20
2	E	2604	PLX	C6-O6-C4	-2.16	110.88	115.20
2	C	2609	PLX	C6-O6-C4	-2.14	110.92	115.20
2	A	2608	PLX	C6-O6-C4	-2.14	110.93	115.20
2	E	2601	PLX	C6-O6-C4	-2.13	110.94	115.20
4	C	2608	P5S	O37-C38-C39	2.10	116.03	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	2607	P5S	O37-C38-C39	2.10	116.03	111.50
4	E	2609	P5S	O37-C38-C39	2.09	116.02	111.50
3	E	2608	PEE	O2-C2-C1	2.05	115.81	108.40
3	A	2606	PEE	O2-C2-C1	2.03	115.77	108.40
3	C	2607	PEE	O2-C2-C1	2.03	115.76	108.40
2	C	2601	PLX	C26-C25-C24	-2.01	108.74	113.38
2	E	2602	PLX	C26-C25-C24	-2.01	108.74	113.38
2	A	2609	PLX	C26-C25-C24	-2.01	108.74	113.38

There are no chirality outliers.

All (438) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	2601	PLX	O7-C6-C7-C8
2	A	2601	PLX	O7-C6-O6-C4
2	A	2601	PLX	C4-C3-O4-P1
2	A	2601	PLX	C3-O4-P1-O2
2	A	2601	PLX	N1-C1-C2-O1
2	A	2602	PLX	O9-C24-C25-C26
2	A	2603	PLX	C3-O4-P1-O1
2	A	2603	PLX	N1-C1-C2-O1
2	A	2604	PLX	O6-C4-C5-O8
2	A	2604	PLX	O9-C24-C25-C26
2	A	2605	PLX	O7-C6-O6-C4
2	A	2605	PLX	C2-O1-P1-O2
2	A	2605	PLX	C2-O1-P1-O3
2	A	2605	PLX	O9-C24-O8-C5
2	A	2605	PLX	O9-C24-C25-C26
2	A	2608	PLX	O7-C6-O6-C4
2	A	2608	PLX	O9-C24-C25-C26
2	C	2602	PLX	O7-C6-C7-C8
2	C	2602	PLX	O7-C6-O6-C4
2	C	2602	PLX	C4-C3-O4-P1
2	C	2602	PLX	C3-O4-P1-O2
2	C	2602	PLX	N1-C1-C2-O1
2	C	2603	PLX	O9-C24-C25-C26
2	C	2604	PLX	C3-O4-P1-O1
2	C	2604	PLX	N1-C1-C2-O1
2	C	2605	PLX	O6-C4-C5-O8
2	C	2605	PLX	O9-C24-C25-C26
2	C	2606	PLX	O7-C6-O6-C4
2	C	2606	PLX	C2-O1-P1-O2

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Mol	Chain	Res	Type	Atoms
2	C	2606	PLX	C2-O1-P1-O3
2	C	2606	PLX	O9-C24-O8-C5
2	C	2606	PLX	O9-C24-C25-C26
2	C	2609	PLX	O7-C6-O6-C4
2	C	2609	PLX	O9-C24-C25-C26
2	E	2601	PLX	O7-C6-O6-C4
2	E	2601	PLX	O9-C24-C25-C26
2	E	2603	PLX	O7-C6-C7-C8
2	E	2603	PLX	O7-C6-O6-C4
2	E	2603	PLX	C4-C3-O4-P1
2	E	2603	PLX	C3-O4-P1-O2
2	E	2603	PLX	N1-C1-C2-O1
2	E	2604	PLX	O9-C24-C25-C26
2	E	2605	PLX	C3-O4-P1-O1
2	E	2605	PLX	N1-C1-C2-O1
2	E	2606	PLX	O6-C4-C5-O8
2	E	2606	PLX	O9-C24-C25-C26
2	E	2607	PLX	O7-C6-O6-C4
2	E	2607	PLX	C2-O1-P1-O2
2	E	2607	PLX	C2-O1-P1-O3
2	E	2607	PLX	O9-C24-O8-C5
2	E	2607	PLX	O9-C24-C25-C26
3	A	2606	PEE	C2-C1-O3P-P
3	A	2606	PEE	C4-O4P-P-O3P
3	A	2606	PEE	C4-O4P-P-O1P
3	C	2607	PEE	C2-C1-O3P-P
3	C	2607	PEE	C4-O4P-P-O3P
3	C	2607	PEE	C4-O4P-P-O1P
3	E	2608	PEE	C2-C1-O3P-P
3	E	2608	PEE	C4-O4P-P-O3P
3	E	2608	PEE	C4-O4P-P-O1P
4	A	2607	P5S	CB-OG-P12-O13
4	C	2608	P5S	CB-OG-P12-O13
4	E	2609	P5S	CB-OG-P12-O13
2	A	2601	PLX	O6-C4-C5-O8
2	C	2602	PLX	O6-C4-C5-O8
2	E	2603	PLX	O6-C4-C5-O8
4	A	2607	P5S	O19-C1-C2-O37
4	C	2608	P5S	O19-C1-C2-O37
4	E	2609	P5S	O19-C1-C2-O37
3	A	2606	PEE	C41-C42-C43-C44
3	C	2607	PEE	C41-C42-C43-C44

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Mol	Chain	Res	Type	Atoms
3	E	2608	PEE	C41-C42-C43-C44
2	A	2601	PLX	C3-O4-P1-O1
2	A	2601	PLX	C2-O1-P1-O4
2	A	2602	PLX	C2-O1-P1-O4
2	A	2604	PLX	C3-O4-P1-O1
2	A	2605	PLX	C2-O1-P1-O4
2	A	2608	PLX	C3-O4-P1-O1
2	A	2608	PLX	C2-O1-P1-O4
2	C	2602	PLX	C3-O4-P1-O1
2	C	2602	PLX	C2-O1-P1-O4
2	C	2603	PLX	C2-O1-P1-O4
2	C	2605	PLX	C3-O4-P1-O1
2	C	2606	PLX	C2-O1-P1-O4
2	C	2609	PLX	C3-O4-P1-O1
2	C	2609	PLX	C2-O1-P1-O4
2	E	2601	PLX	C3-O4-P1-O1
2	E	2601	PLX	C2-O1-P1-O4
2	E	2603	PLX	C3-O4-P1-O1
2	E	2603	PLX	C2-O1-P1-O4
2	E	2604	PLX	C2-O1-P1-O4
2	E	2606	PLX	C3-O4-P1-O1
2	E	2607	PLX	C2-O1-P1-O4
3	A	2606	PEE	C1-O3P-P-O4P
3	C	2607	PEE	C1-O3P-P-O4P
3	E	2608	PEE	C1-O3P-P-O4P
3	A	2606	PEE	C31-C30-O3-C3
3	C	2607	PEE	C31-C30-O3-C3
3	E	2608	PEE	C31-C30-O3-C3
2	A	2605	PLX	C17-C18-C19-C20
2	C	2606	PLX	C17-C18-C19-C20
2	E	2607	PLX	C17-C18-C19-C20
2	A	2601	PLX	O6-C6-C7-C8
2	C	2602	PLX	O6-C6-C7-C8
2	E	2603	PLX	O6-C6-C7-C8
3	A	2606	PEE	C11-C10-O2-C2
3	C	2607	PEE	C11-C10-O2-C2
3	E	2608	PEE	C11-C10-O2-C2
3	A	2606	PEE	C1-C2-O2-C10
3	C	2607	PEE	C1-C2-O2-C10
3	E	2608	PEE	C1-C2-O2-C10
2	A	2605	PLX	C15-C16-C17-C18
2	C	2606	PLX	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
2	E	2607	PLX	C15-C16-C17-C18
3	A	2606	PEE	O5-C30-O3-C3
3	C	2607	PEE	O5-C30-O3-C3
3	E	2608	PEE	O5-C30-O3-C3
3	A	2606	PEE	C43-C44-C45-C46
3	C	2607	PEE	C43-C44-C45-C46
3	E	2608	PEE	C43-C44-C45-C46
3	A	2606	PEE	C31-C32-C33-C34
3	C	2607	PEE	C31-C32-C33-C34
3	E	2608	PEE	C31-C32-C33-C34
2	A	2603	PLX	C11-C12-C13-C14
2	C	2604	PLX	C11-C12-C13-C14
2	E	2605	PLX	C11-C12-C13-C14
2	A	2608	PLX	C6-C7-C8-C9
2	C	2609	PLX	C6-C7-C8-C9
2	E	2601	PLX	C6-C7-C8-C9
2	A	2608	PLX	C17-C18-C19-C20
2	C	2609	PLX	C17-C18-C19-C20
2	E	2601	PLX	C17-C18-C19-C20
2	A	2604	PLX	O7-C6-C7-C8
2	A	2608	PLX	O7-C6-C7-C8
2	C	2605	PLX	O7-C6-C7-C8
2	C	2609	PLX	O7-C6-C7-C8
2	E	2601	PLX	O7-C6-C7-C8
2	E	2606	PLX	O7-C6-C7-C8
2	A	2601	PLX	C7-C8-C9-C10
2	C	2602	PLX	C7-C8-C9-C10
2	E	2603	PLX	C7-C8-C9-C10
3	A	2606	PEE	O4-C10-O2-C2
3	C	2607	PEE	O4-C10-O2-C2
3	E	2608	PEE	O4-C10-O2-C2
3	A	2606	PEE	C12-C13-C14-C15
3	C	2607	PEE	C12-C13-C14-C15
3	E	2608	PEE	C12-C13-C14-C15
3	A	2606	PEE	C17-C18-C19-C20
3	C	2607	PEE	C17-C18-C19-C20
3	E	2608	PEE	C17-C18-C19-C20
3	E	2608	PEE	C44-C45-C46-C47
3	A	2606	PEE	C44-C45-C46-C47
3	C	2607	PEE	C44-C45-C46-C47
2	A	2608	PLX	C27-C28-C29-C30
2	C	2609	PLX	C27-C28-C29-C30

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Mol	Chain	Res	Type	Atoms
2	E	2601	PLX	C27-C28-C29-C30
2	A	2603	PLX	C13-C14-C15-C16
2	C	2604	PLX	C13-C14-C15-C16
2	E	2605	PLX	C13-C14-C15-C16
3	E	2608	PEE	C14-C15-C16-C17
3	A	2606	PEE	C14-C15-C16-C17
3	C	2607	PEE	C14-C15-C16-C17
2	A	2602	PLX	C4-C3-O4-P1
2	C	2603	PLX	C4-C3-O4-P1
2	E	2604	PLX	C4-C3-O4-P1
2	A	2609	PLX	C14-C15-C16-C17
2	C	2601	PLX	C14-C15-C16-C17
2	E	2602	PLX	C14-C15-C16-C17
4	A	2607	P5S	O19-C1-C2-C3
4	C	2608	P5S	O19-C1-C2-C3
4	E	2609	P5S	O19-C1-C2-C3
2	C	2604	PLX	C12-C13-C14-C15
2	A	2603	PLX	C12-C13-C14-C15
2	E	2605	PLX	C12-C13-C14-C15
2	A	2608	PLX	C29-C30-C31-C32
2	C	2609	PLX	C29-C30-C31-C32
2	E	2601	PLX	C29-C30-C31-C32
2	A	2605	PLX	O6-C4-C5-O8
2	C	2606	PLX	O6-C4-C5-O8
2	E	2607	PLX	O6-C4-C5-O8
3	A	2606	PEE	O2-C2-C3-O3
3	C	2607	PEE	O2-C2-C3-O3
3	E	2608	PEE	O2-C2-C3-O3
2	A	2601	PLX	O4-C3-C4-C5
2	A	2605	PLX	O4-C3-C4-C5
2	C	2602	PLX	O4-C3-C4-C5
2	C	2606	PLX	O4-C3-C4-C5
2	E	2603	PLX	O4-C3-C4-C5
2	E	2607	PLX	O4-C3-C4-C5
2	A	2601	PLX	C12-C13-C14-C15
2	C	2602	PLX	C12-C13-C14-C15
2	C	2602	PLX	C29-C30-C31-C32
2	E	2603	PLX	C12-C13-C14-C15
2	A	2601	PLX	C29-C30-C31-C32
2	E	2603	PLX	C29-C30-C31-C32
2	A	2603	PLX	C16-C17-C18-C19
2	C	2604	PLX	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
2	E	2605	PLX	C16-C17-C18-C19
2	A	2601	PLX	C3-C4-C5-O8
2	A	2604	PLX	C3-C4-C5-O8
2	C	2602	PLX	C3-C4-C5-O8
2	C	2605	PLX	C3-C4-C5-O8
2	E	2603	PLX	C3-C4-C5-O8
2	E	2606	PLX	C3-C4-C5-O8
3	C	2607	PEE	C42-C43-C44-C45
3	A	2606	PEE	C42-C43-C44-C45
3	E	2608	PEE	C42-C43-C44-C45
2	A	2601	PLX	C17-C18-C19-C20
2	C	2602	PLX	C17-C18-C19-C20
2	E	2603	PLX	C17-C18-C19-C20
2	A	2601	PLX	C3-C4-O6-C6
2	A	2601	PLX	C5-C4-O6-C6
2	A	2602	PLX	C3-C4-O6-C6
2	A	2603	PLX	C2-O1-P1-O4
2	C	2602	PLX	C3-C4-O6-C6
2	C	2602	PLX	C5-C4-O6-C6
2	C	2603	PLX	C3-C4-O6-C6
2	C	2604	PLX	C2-O1-P1-O4
2	E	2603	PLX	C3-C4-O6-C6
2	E	2603	PLX	C5-C4-O6-C6
2	E	2604	PLX	C3-C4-O6-C6
2	E	2605	PLX	C2-O1-P1-O4
2	A	2601	PLX	O9-C24-C25-C26
2	A	2605	PLX	O7-C6-C7-C8
2	C	2602	PLX	O9-C24-C25-C26
2	C	2606	PLX	O7-C6-C7-C8
2	E	2603	PLX	O9-C24-C25-C26
2	E	2607	PLX	O7-C6-C7-C8
2	A	2601	PLX	O4-C3-C4-O6
2	C	2602	PLX	O4-C3-C4-O6
2	E	2603	PLX	O4-C3-C4-O6
2	A	2605	PLX	C25-C26-C27-C28
2	C	2606	PLX	C25-C26-C27-C28
2	E	2607	PLX	C25-C26-C27-C28
4	A	2607	P5S	C2-C3-O16-P12
4	C	2608	P5S	C2-C3-O16-P12
4	E	2609	P5S	C2-C3-O16-P12
2	E	2602	PLX	C28-C29-C30-C31
2	A	2609	PLX	C28-C29-C30-C31

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Mol	Chain	Res	Type	Atoms
2	C	2601	PLX	C28-C29-C30-C31
2	A	2608	PLX	O4-C3-C4-C5
2	C	2609	PLX	O4-C3-C4-C5
2	E	2601	PLX	O4-C3-C4-C5
2	E	2603	PLX	C13-C14-C15-C16
2	A	2601	PLX	C13-C14-C15-C16
2	C	2602	PLX	C13-C14-C15-C16
2	A	2601	PLX	C25-C26-C27-C28
2	E	2603	PLX	C25-C26-C27-C28
2	C	2602	PLX	C25-C26-C27-C28
2	A	2605	PLX	O4-C3-C4-O6
2	A	2608	PLX	O4-C3-C4-O6
2	C	2606	PLX	O4-C3-C4-O6
2	C	2609	PLX	O4-C3-C4-O6
2	E	2601	PLX	O4-C3-C4-O6
2	E	2607	PLX	O4-C3-C4-O6
4	A	2607	P5S	CA-CB-OG-P12
4	C	2608	P5S	CA-CB-OG-P12
4	E	2609	P5S	CA-CB-OG-P12
3	A	2606	PEE	C15-C16-C17-C18
3	C	2607	PEE	C15-C16-C17-C18
3	E	2608	PEE	C15-C16-C17-C18
2	A	2601	PLX	C24-C25-C26-C27
2	C	2602	PLX	C24-C25-C26-C27
2	E	2603	PLX	C24-C25-C26-C27
4	A	2607	P5S	N-CA-CB-OG
4	C	2608	P5S	N-CA-CB-OG
4	E	2609	P5S	N-CA-CB-OG
2	A	2603	PLX	C9-C10-C11-C12
2	C	2604	PLX	C9-C10-C11-C12
2	E	2605	PLX	C9-C10-C11-C12
2	A	2609	PLX	C3-O4-P1-O1
2	A	2609	PLX	C2-O1-P1-O4
2	C	2601	PLX	C3-O4-P1-O1
2	C	2601	PLX	C2-O1-P1-O4
2	E	2602	PLX	C3-O4-P1-O1
2	E	2602	PLX	C2-O1-P1-O4
2	A	2609	PLX	C4-C3-O4-P1
2	C	2601	PLX	C4-C3-O4-P1
2	E	2602	PLX	C4-C3-O4-P1
2	A	2601	PLX	C2-O1-P1-O2
2	A	2601	PLX	C2-O1-P1-O3

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Mol	Chain	Res	Type	Atoms
2	A	2602	PLX	C2-O1-P1-O2
2	A	2602	PLX	C2-O1-P1-O3
2	A	2603	PLX	C3-O4-P1-O3
2	A	2604	PLX	C3-O4-P1-O3
2	A	2608	PLX	C3-O4-P1-O2
2	A	2608	PLX	C2-O1-P1-O2
2	C	2602	PLX	C2-O1-P1-O2
2	C	2602	PLX	C2-O1-P1-O3
2	C	2603	PLX	C2-O1-P1-O2
2	C	2603	PLX	C2-O1-P1-O3
2	C	2604	PLX	C3-O4-P1-O3
2	C	2605	PLX	C3-O4-P1-O3
2	C	2609	PLX	C3-O4-P1-O2
2	C	2609	PLX	C2-O1-P1-O2
2	E	2601	PLX	C3-O4-P1-O2
2	E	2601	PLX	C2-O1-P1-O2
2	E	2603	PLX	C2-O1-P1-O2
2	E	2603	PLX	C2-O1-P1-O3
2	E	2604	PLX	C2-O1-P1-O2
2	E	2604	PLX	C2-O1-P1-O3
2	E	2605	PLX	C3-O4-P1-O3
2	E	2606	PLX	C3-O4-P1-O3
3	A	2606	PEE	C1-O3P-P-O1P
3	C	2607	PEE	C1-O3P-P-O1P
3	E	2608	PEE	C1-O3P-P-O1P
2	A	2605	PLX	C26-C27-C28-C29
2	C	2606	PLX	C26-C27-C28-C29
2	E	2607	PLX	C26-C27-C28-C29
2	E	2605	PLX	C14-C15-C16-C17
2	A	2603	PLX	C14-C15-C16-C17
2	C	2604	PLX	C14-C15-C16-C17
2	A	2601	PLX	C25-C24-O8-C5
2	A	2602	PLX	C25-C24-O8-C5
2	A	2609	PLX	C25-C24-O8-C5
2	C	2601	PLX	C25-C24-O8-C5
2	C	2602	PLX	C25-C24-O8-C5
2	C	2603	PLX	C25-C24-O8-C5
2	E	2602	PLX	C25-C24-O8-C5
2	E	2603	PLX	C25-C24-O8-C5
2	E	2604	PLX	C25-C24-O8-C5
2	E	2604	PLX	C25-C26-C27-C28
2	A	2602	PLX	C25-C26-C27-C28

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Mol	Chain	Res	Type	Atoms
2	A	2605	PLX	C9-C10-C11-C12
2	A	2605	PLX	C3-C4-C5-O8
2	A	2605	PLX	N1-C1-C2-O1
2	A	2608	PLX	N1-C1-C2-O1
2	C	2606	PLX	C9-C10-C11-C12
2	C	2606	PLX	C3-C4-C5-O8
2	C	2606	PLX	N1-C1-C2-O1
2	C	2609	PLX	N1-C1-C2-O1
2	E	2601	PLX	N1-C1-C2-O1
2	E	2607	PLX	C9-C10-C11-C12
2	E	2607	PLX	C3-C4-C5-O8
2	E	2607	PLX	N1-C1-C2-O1
2	C	2603	PLX	C25-C26-C27-C28
2	E	2607	PLX	C14-C15-C16-C17
2	A	2605	PLX	C14-C15-C16-C17
2	C	2606	PLX	C14-C15-C16-C17
2	A	2608	PLX	C15-C16-C17-C18
2	C	2609	PLX	C15-C16-C17-C18
2	E	2601	PLX	C15-C16-C17-C18
2	A	2602	PLX	O8-C24-C25-C26
2	A	2605	PLX	O8-C24-C25-C26
2	C	2603	PLX	O8-C24-C25-C26
2	C	2606	PLX	O8-C24-C25-C26
2	E	2604	PLX	O8-C24-C25-C26
2	E	2607	PLX	O8-C24-C25-C26
3	A	2606	PEE	C38-C39-C40-C41
3	C	2607	PEE	C38-C39-C40-C41
3	E	2608	PEE	C38-C39-C40-C41
3	C	2607	PEE	C13-C14-C15-C16
3	A	2606	PEE	C13-C14-C15-C16
3	E	2608	PEE	C13-C14-C15-C16
2	A	2602	PLX	C3-O4-P1-O1
2	C	2603	PLX	C3-O4-P1-O1
2	E	2604	PLX	C3-O4-P1-O1
4	A	2607	P5S	CB-OG-P12-O16
4	C	2608	P5S	CB-OG-P12-O16
4	E	2609	P5S	CB-OG-P12-O16
2	A	2603	PLX	C3-C4-C5-O8
2	C	2604	PLX	C3-C4-C5-O8
2	E	2605	PLX	C3-C4-C5-O8
3	A	2606	PEE	C1-C2-C3-O3
3	C	2607	PEE	C1-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
3	E	2608	PEE	C1-C2-C3-O3
3	A	2606	PEE	C40-C41-C42-C43
2	E	2603	PLX	C19-C20-C21-C22
3	E	2608	PEE	C40-C41-C42-C43
2	A	2601	PLX	C19-C20-C21-C22
2	C	2602	PLX	C19-C20-C21-C22
3	C	2607	PEE	C40-C41-C42-C43
2	A	2605	PLX	C18-C19-C20-C21
2	E	2607	PLX	C18-C19-C20-C21
2	C	2606	PLX	C18-C19-C20-C21
3	A	2606	PEE	C33-C34-C35-C36
3	C	2607	PEE	C33-C34-C35-C36
3	E	2608	PEE	C33-C34-C35-C36
2	E	2605	PLX	C7-C8-C9-C10
2	A	2603	PLX	C7-C8-C9-C10
2	C	2604	PLX	C7-C8-C9-C10
2	A	2601	PLX	O8-C24-C25-C26
2	C	2602	PLX	O8-C24-C25-C26
2	E	2603	PLX	O8-C24-C25-C26
4	A	2607	P5S	C1-C2-O37-C38
4	C	2608	P5S	C1-C2-O37-C38
4	E	2609	P5S	C1-C2-O37-C38
2	A	2602	PLX	C5-C4-O6-C6
2	A	2609	PLX	C3-C4-O6-C6
2	C	2601	PLX	C3-C4-O6-C6
2	C	2603	PLX	C5-C4-O6-C6
2	E	2602	PLX	C3-C4-O6-C6
2	E	2604	PLX	C5-C4-O6-C6
2	A	2604	PLX	O8-C24-C25-C26
2	C	2605	PLX	O8-C24-C25-C26
2	E	2606	PLX	O8-C24-C25-C26
2	C	2609	PLX	C30-C31-C32-C33
2	A	2608	PLX	C30-C31-C32-C33
2	E	2601	PLX	C30-C31-C32-C33
2	A	2601	PLX	C20-C21-C22-C23
2	C	2602	PLX	C20-C21-C22-C23
2	E	2603	PLX	C20-C21-C22-C23
2	C	2609	PLX	C31-C32-C33-C34
2	E	2603	PLX	C27-C28-C29-C30
2	C	2602	PLX	C27-C28-C29-C30
2	E	2601	PLX	C31-C32-C33-C34
2	A	2601	PLX	C27-C28-C29-C30

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Mol	Chain	Res	Type	Atoms
2	A	2608	PLX	C31-C32-C33-C34
2	A	2603	PLX	O9-C24-C25-C26
2	A	2609	PLX	O7-C6-C7-C8
2	C	2601	PLX	O7-C6-C7-C8
2	C	2604	PLX	O9-C24-C25-C26
2	E	2602	PLX	O7-C6-C7-C8
2	E	2605	PLX	O9-C24-C25-C26
2	A	2602	PLX	C3-O4-P1-O2
2	A	2609	PLX	C3-O4-P1-O2
2	C	2601	PLX	C3-O4-P1-O2
2	C	2603	PLX	C3-O4-P1-O2
2	E	2602	PLX	C3-O4-P1-O2
2	E	2604	PLX	C3-O4-P1-O2
3	A	2606	PEE	O4P-C4-C5-N
3	C	2607	PEE	O4P-C4-C5-N
3	E	2608	PEE	O4P-C4-C5-N
3	A	2606	PEE	C16-C17-C18-C19
3	C	2607	PEE	C16-C17-C18-C19
3	E	2608	PEE	C16-C17-C18-C19
2	A	2601	PLX	C18-C19-C20-C21
2	C	2602	PLX	C18-C19-C20-C21
2	E	2603	PLX	C18-C19-C20-C21
2	A	2608	PLX	C4-C3-O4-P1
2	C	2609	PLX	C4-C3-O4-P1
2	E	2601	PLX	C4-C3-O4-P1
3	A	2606	PEE	O4-C10-C11-C12
3	C	2607	PEE	O4-C10-C11-C12
3	E	2608	PEE	O4-C10-C11-C12
3	A	2606	PEE	O2-C10-C11-C12
3	C	2607	PEE	O2-C10-C11-C12
3	E	2608	PEE	O2-C10-C11-C12

There are no ring outliers.

27 monomers are involved in 407 short contacts:

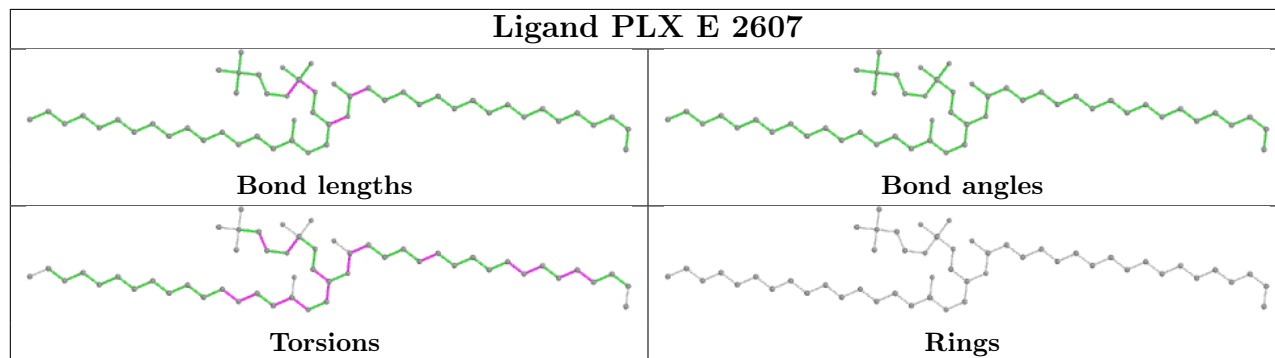
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	E	2607	PLX	5	0
4	A	2607	P5S	3	0
3	C	2607	PEE	41	0
2	C	2604	PLX	17	0
2	C	2602	PLX	3	0
2	A	2605	PLX	5	0

*Continued on next page...*

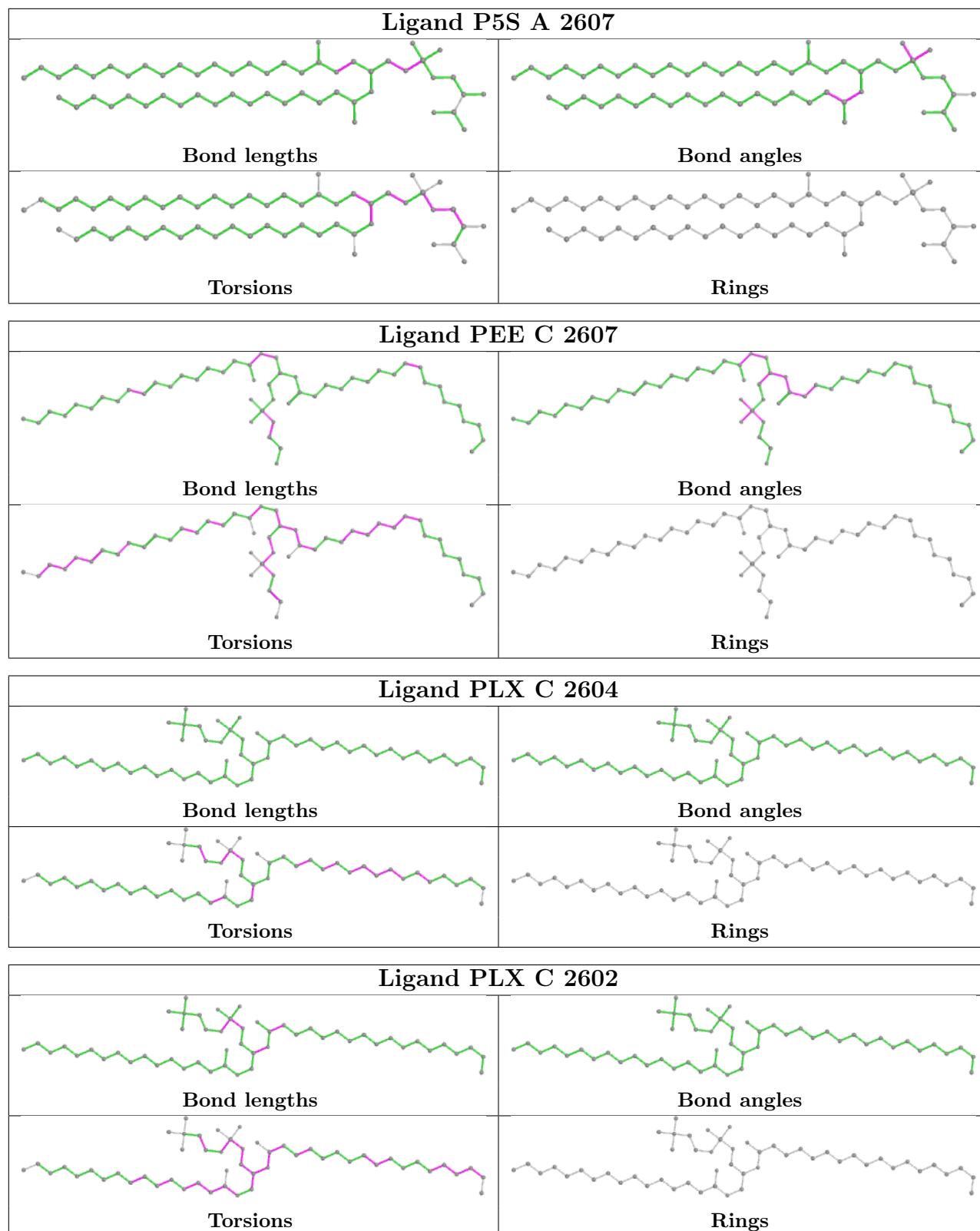
Continued from previous page...

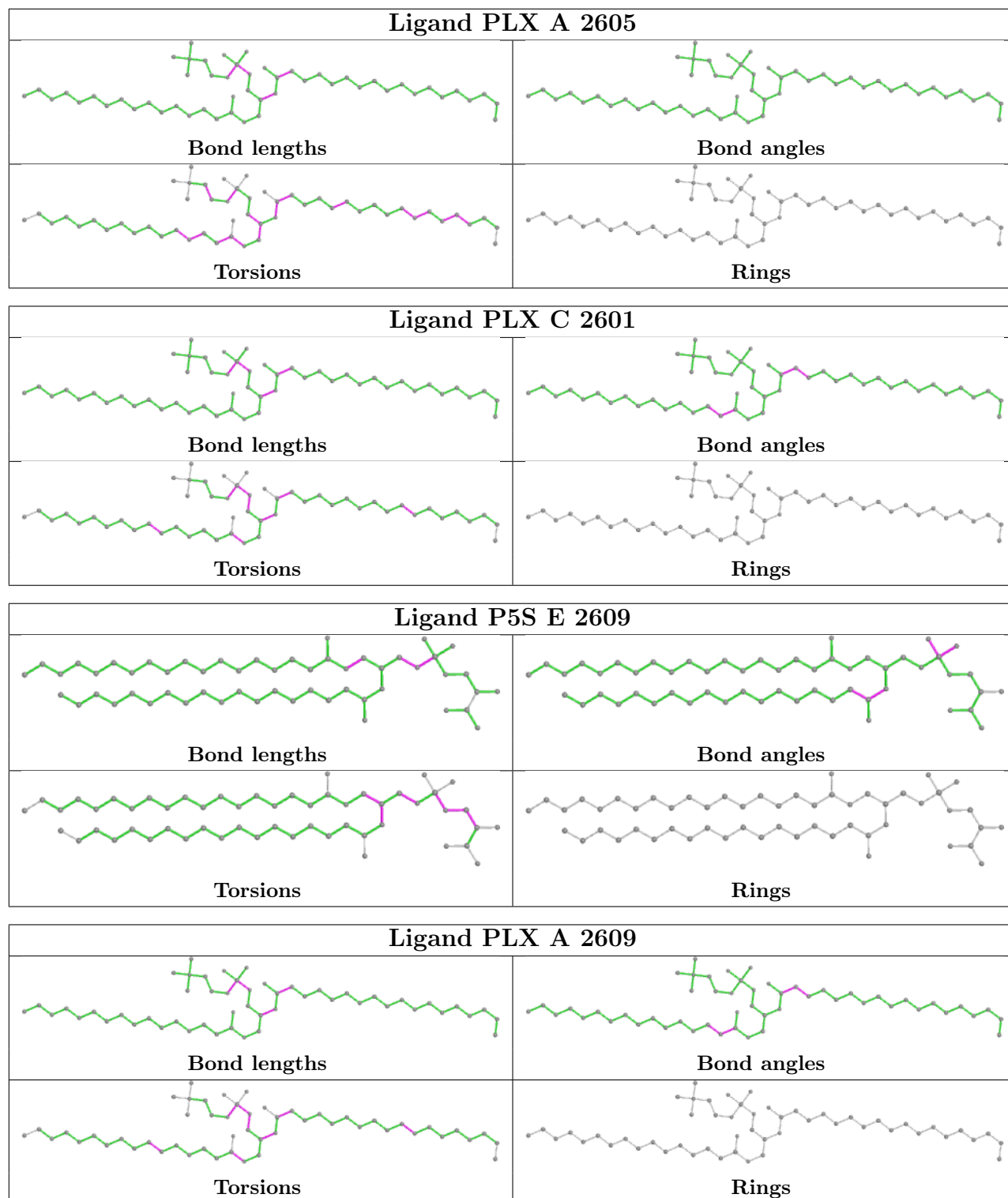
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	2601	PLX	2	0
4	E	2609	P5S	3	0
2	A	2609	PLX	1	0
2	E	2603	PLX	3	0
2	C	2603	PLX	7	0
2	A	2604	PLX	6	0
4	C	2608	P5S	3	0
2	E	2604	PLX	7	0
2	A	2603	PLX	15	0
2	E	2602	PLX	1	0
2	C	2605	PLX	6	0
2	C	2609	PLX	57	0
2	E	2606	PLX	6	0
2	E	2601	PLX	56	0
2	C	2606	PLX	5	0
3	E	2608	PEE	40	0
2	A	2602	PLX	8	0
2	A	2608	PLX	55	0
2	A	2601	PLX	3	0
2	E	2605	PLX	17	0
3	A	2606	PEE	41	0

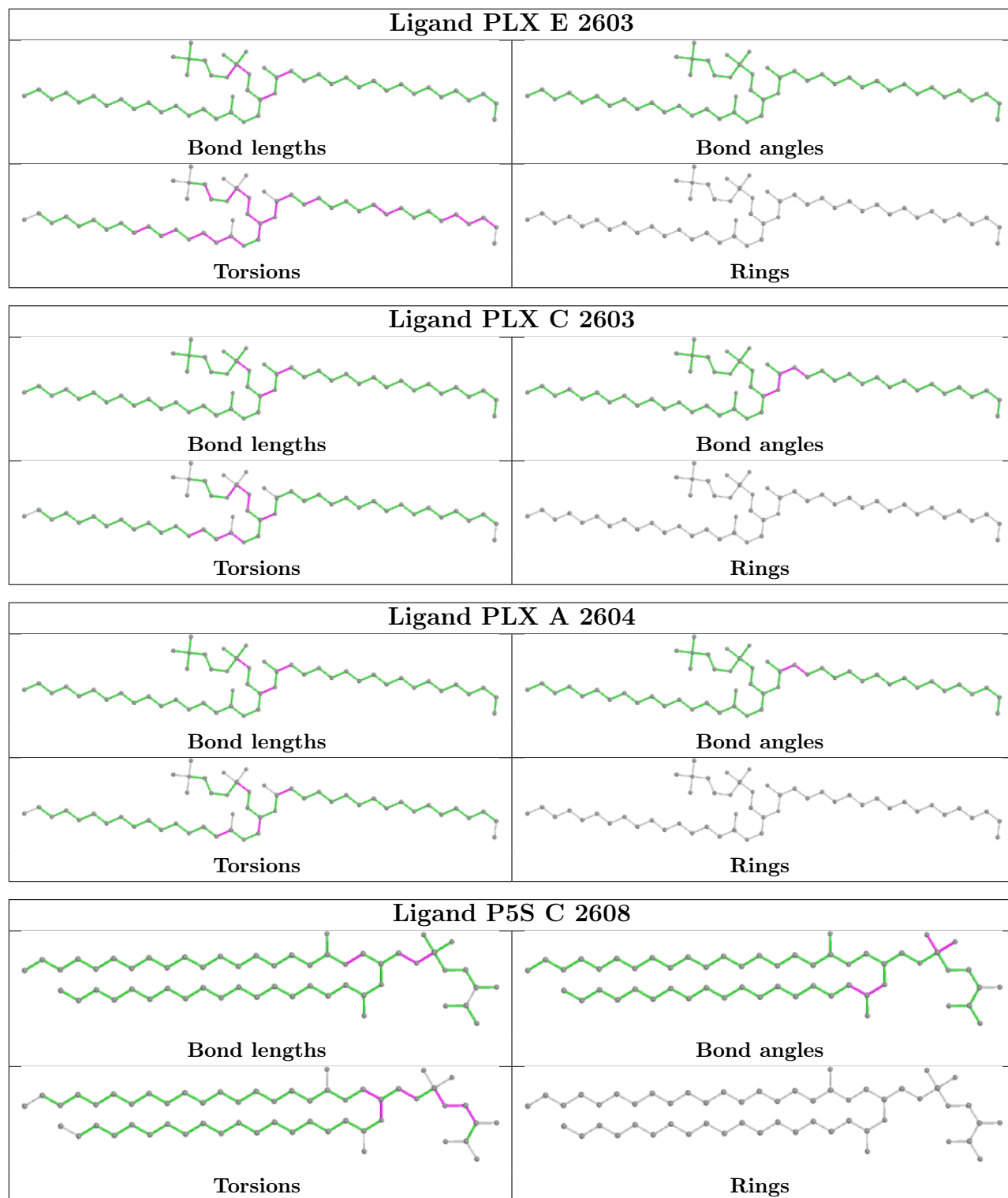
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

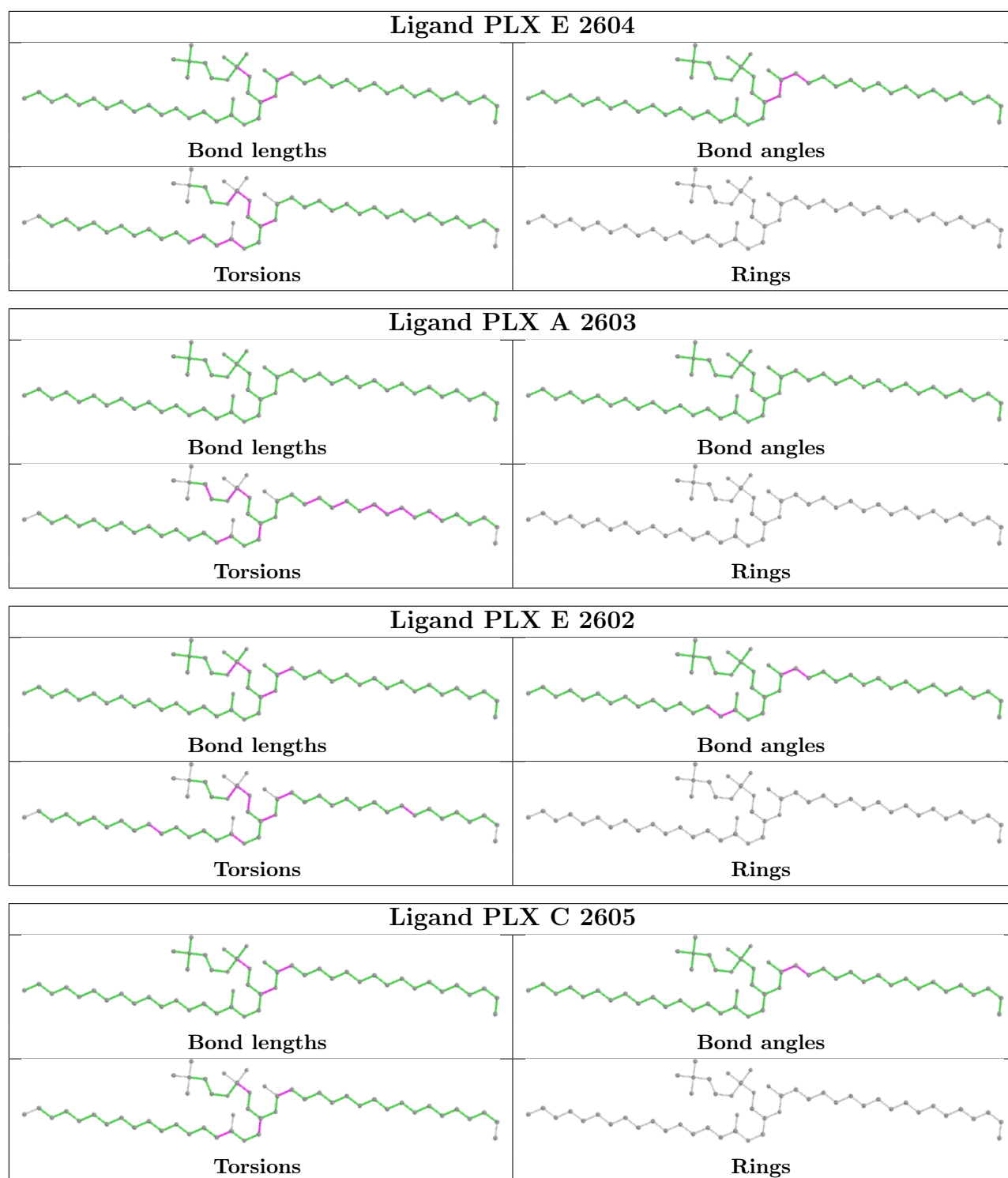


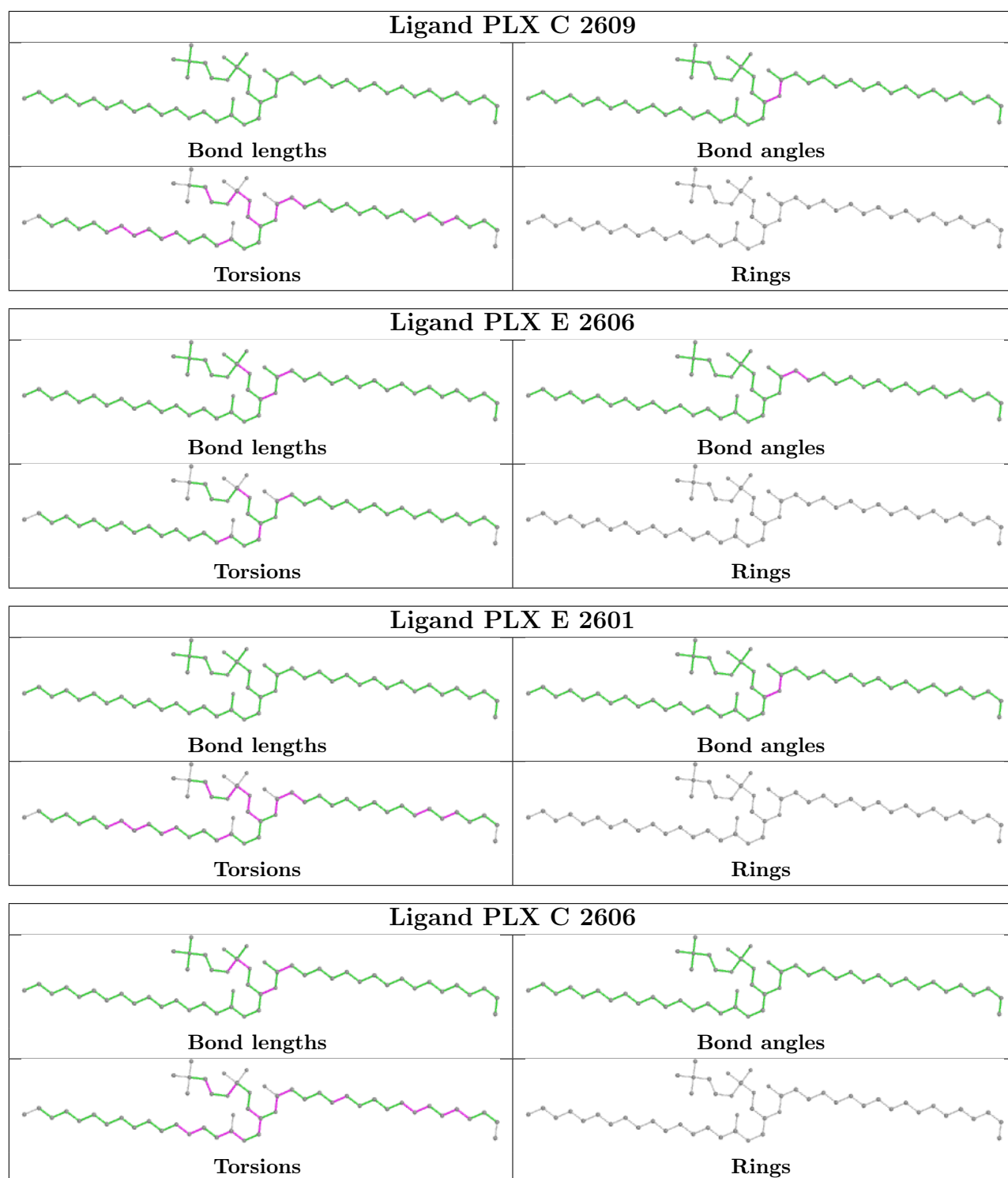


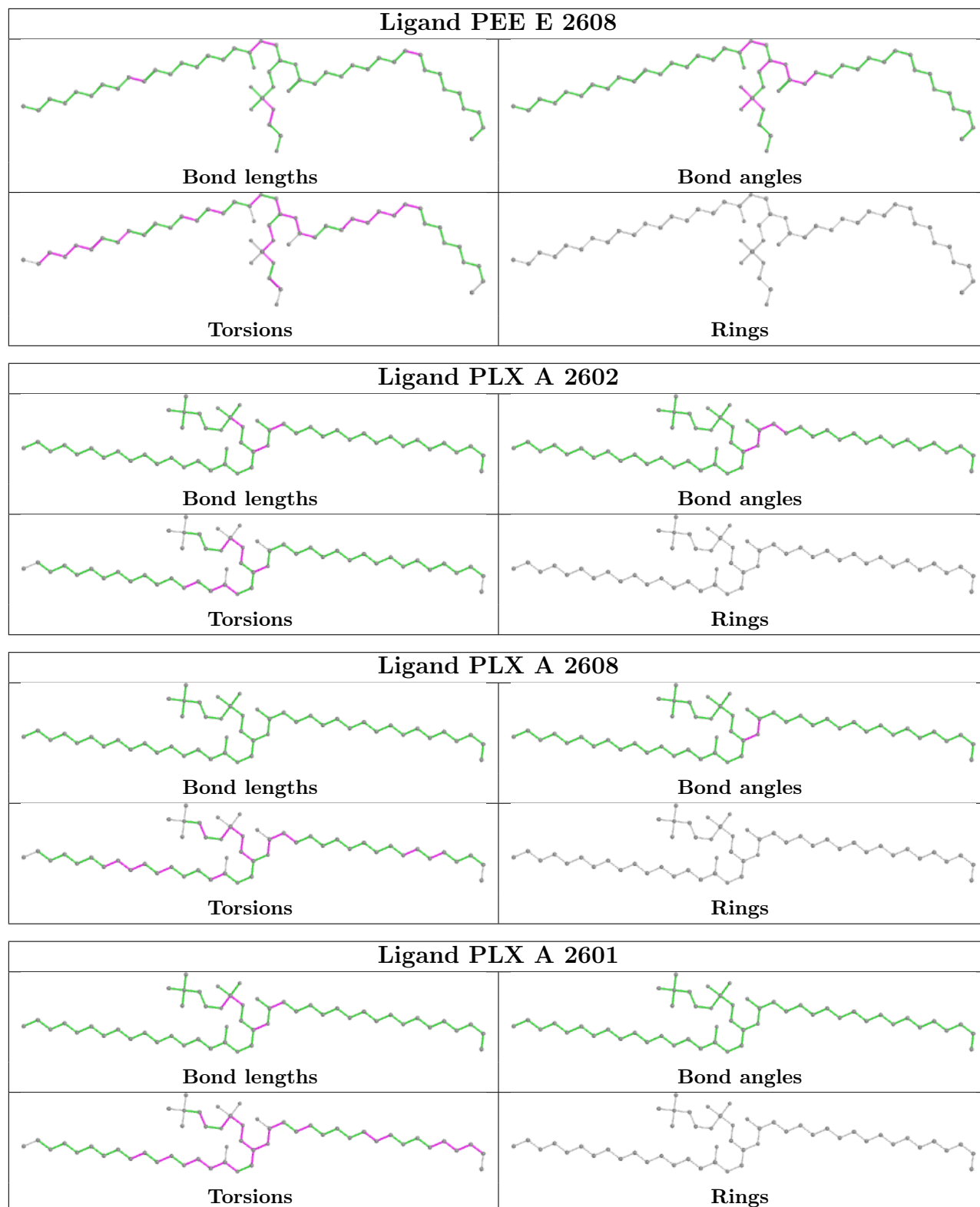


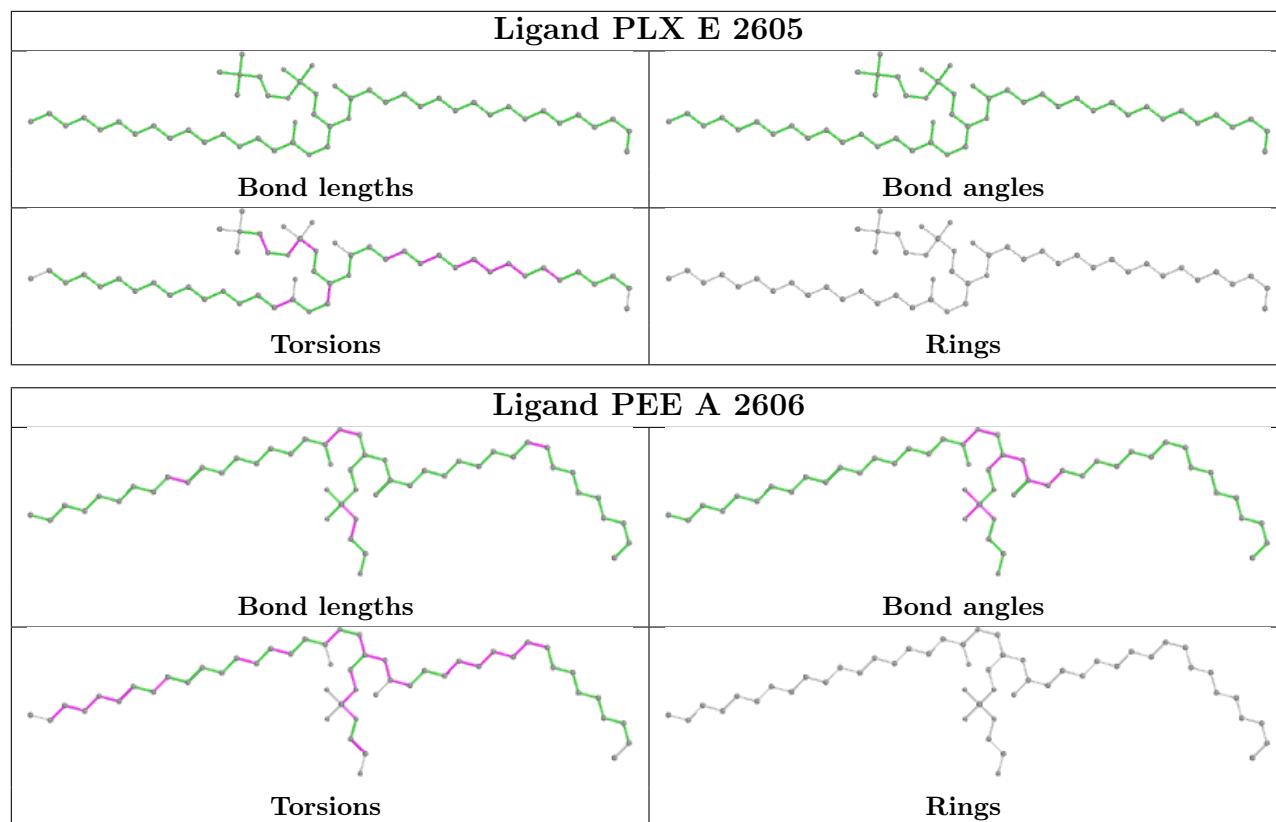












## 5.7 Other polymers [i](#)

There are no such residues in this entry.

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

There are no chain breaks in this entry.

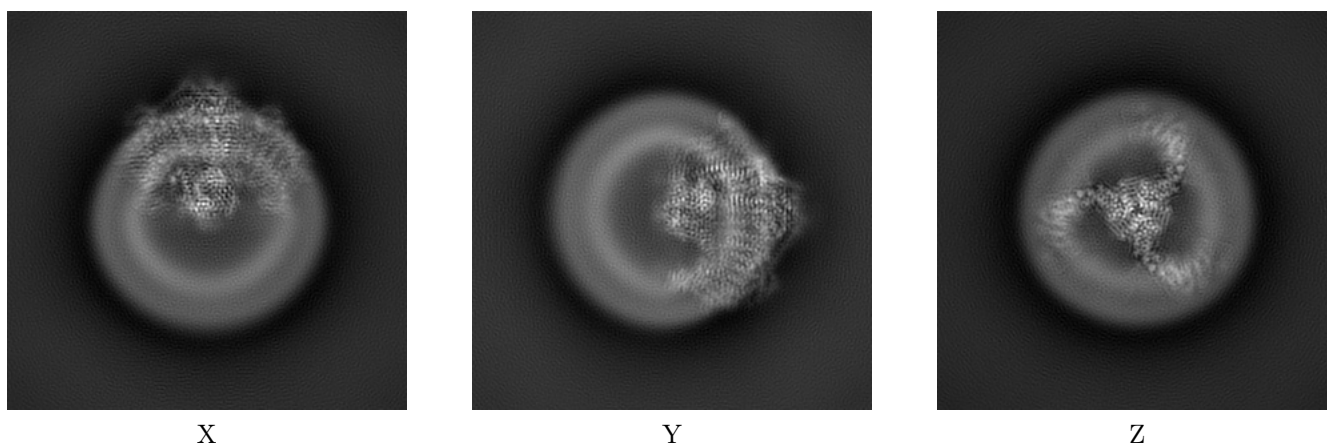
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-32592. 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](#)

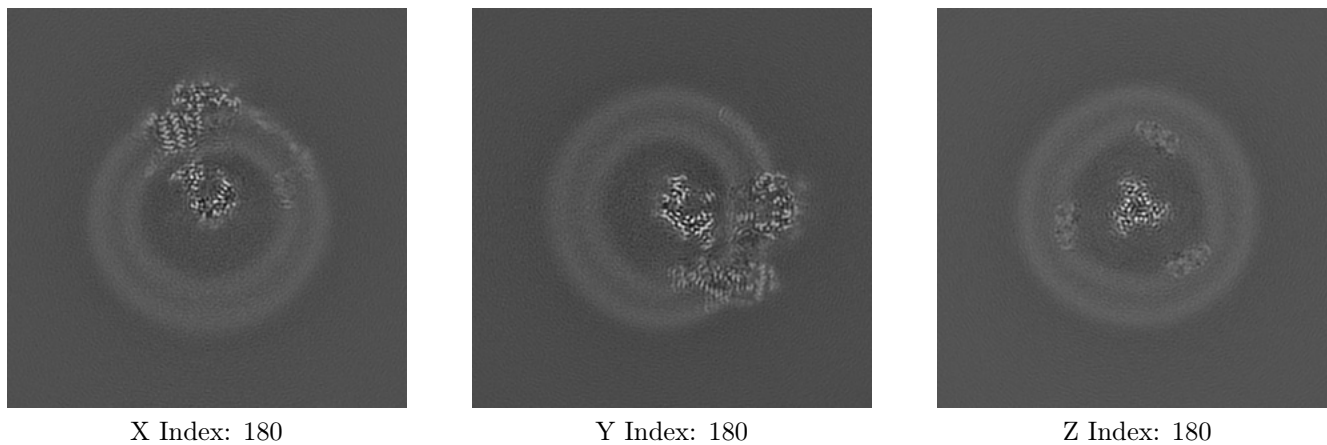
#### 6.1.1 Primary map



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

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

#### 6.2.1 Primary map

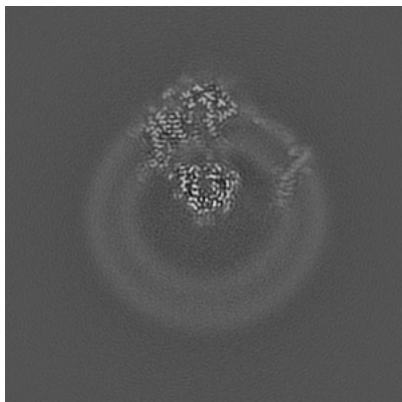




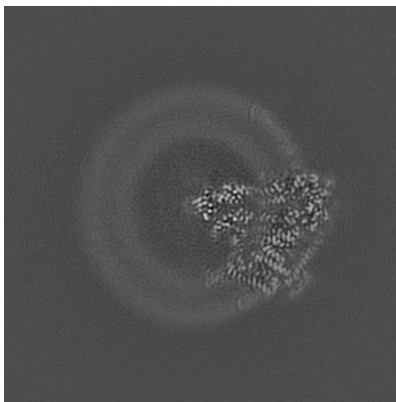
The images above show central slices of the map in three orthogonal directions.

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

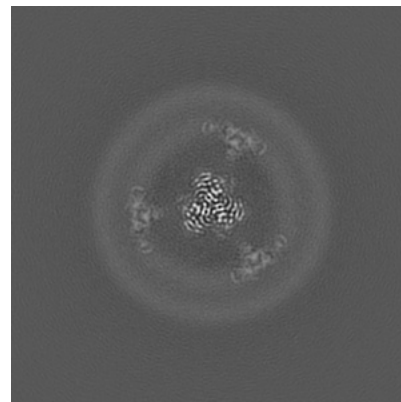
### 6.3.1 Primary map



X Index: 187



Y Index: 187

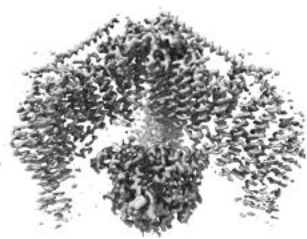


Z Index: 186

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

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

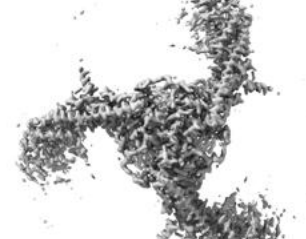
### 6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.018. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

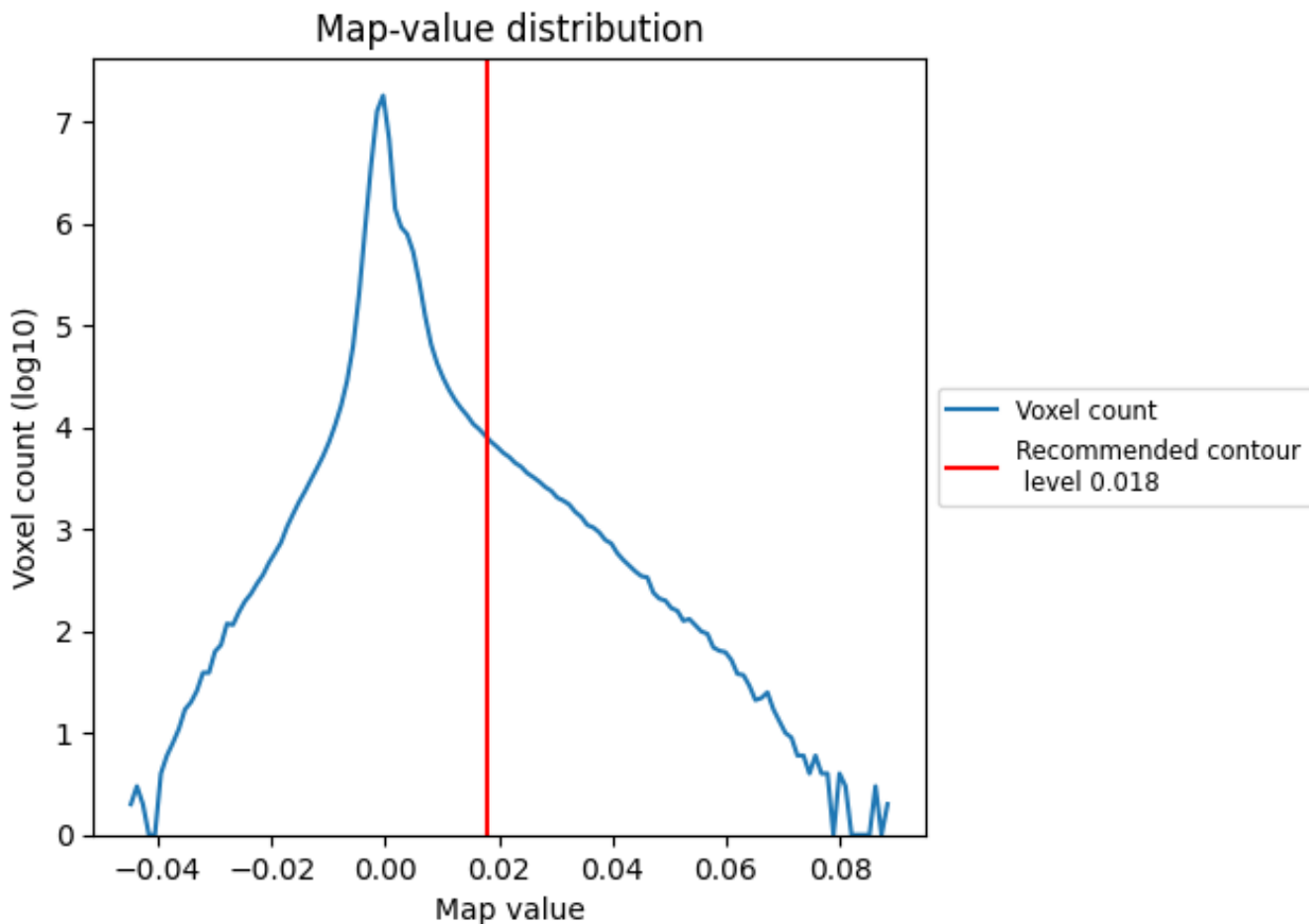
## 6.5 Mask visualisation

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

## 7 Map analysis [i](#)

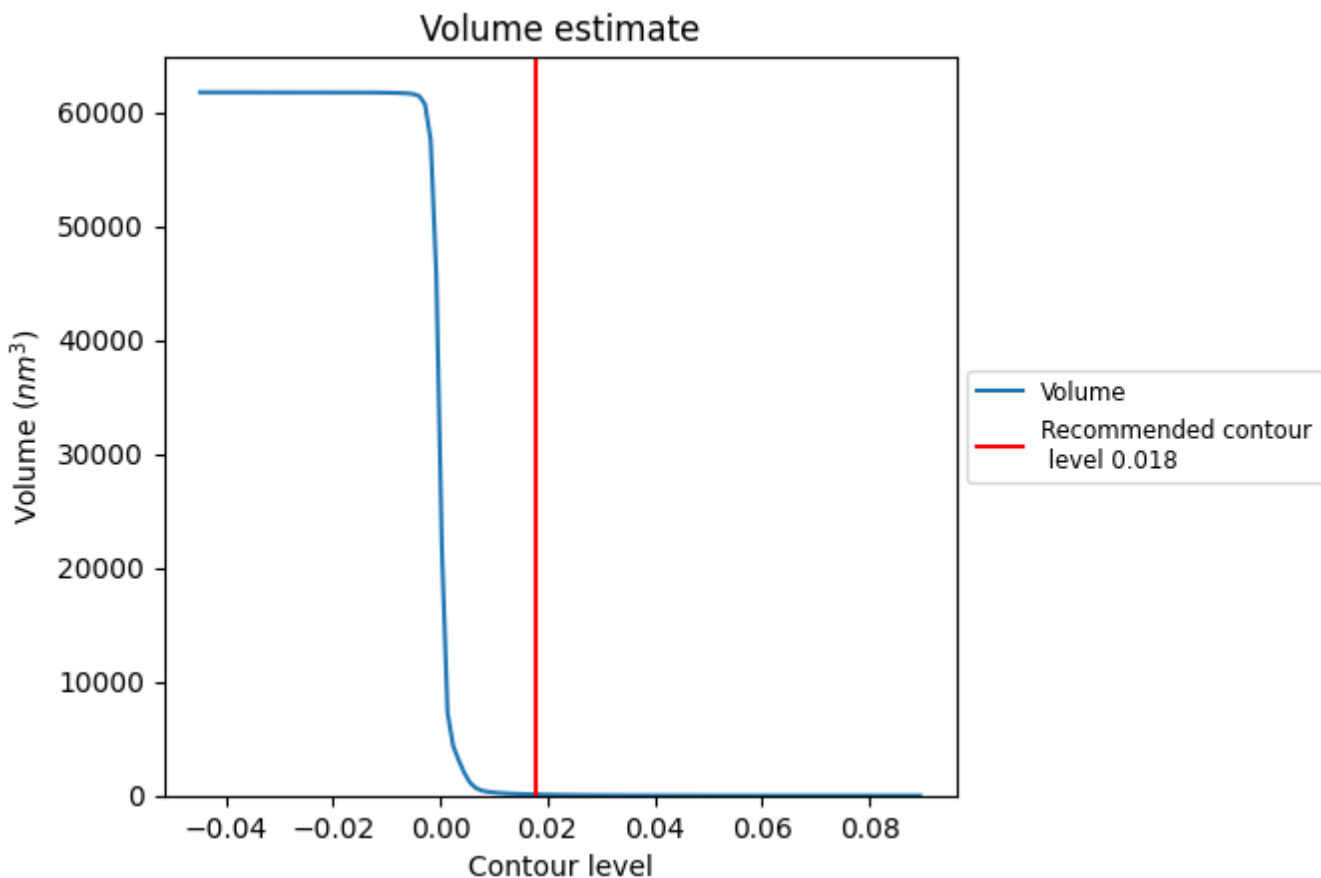
This section contains the results of statistical analysis of the map.

### 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.

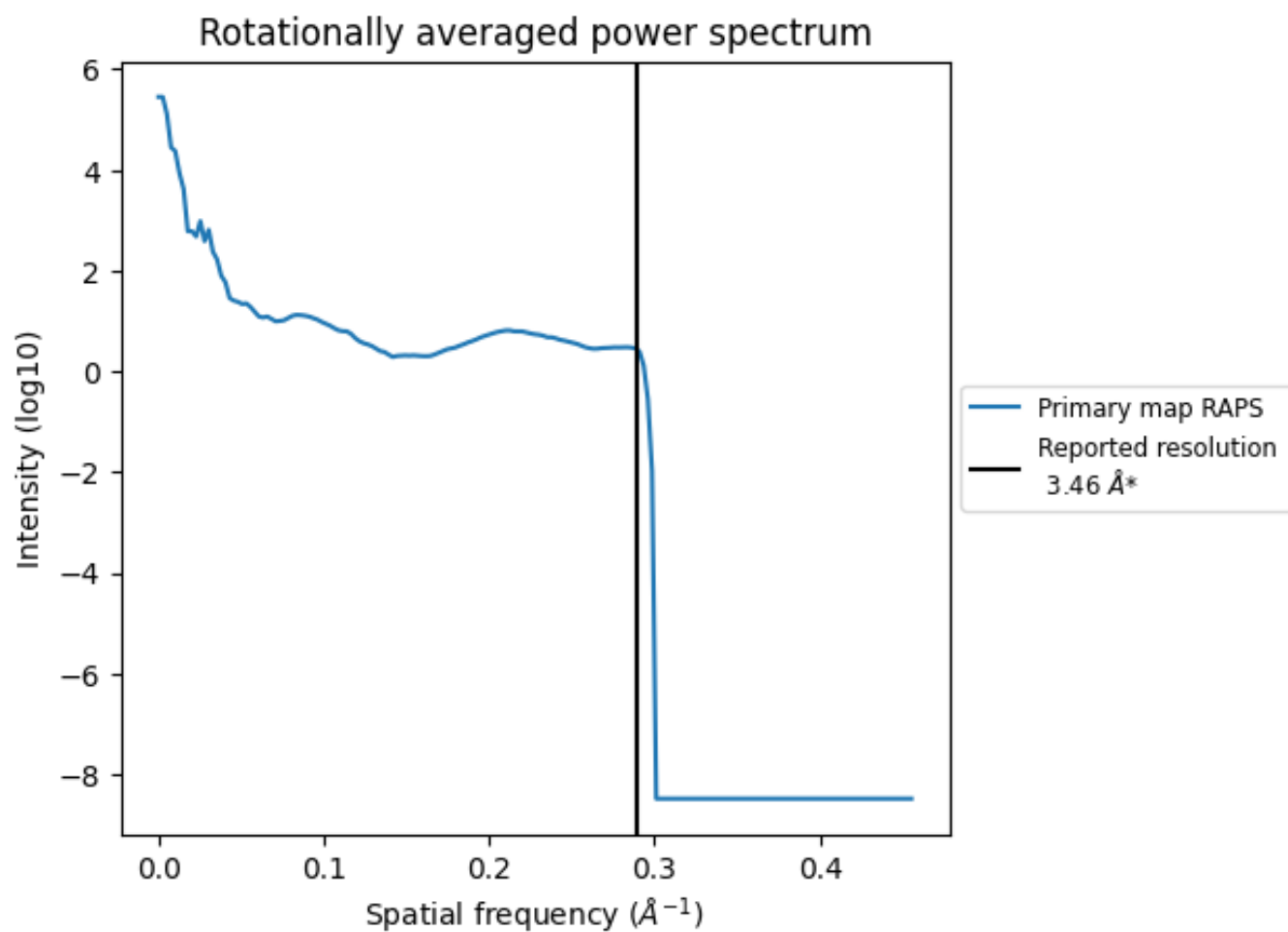
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 93 nm<sup>3</sup>; this corresponds to an approximate mass of 84 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



\*Reported resolution corresponds to spatial frequency of 0.289 Å<sup>-1</sup>

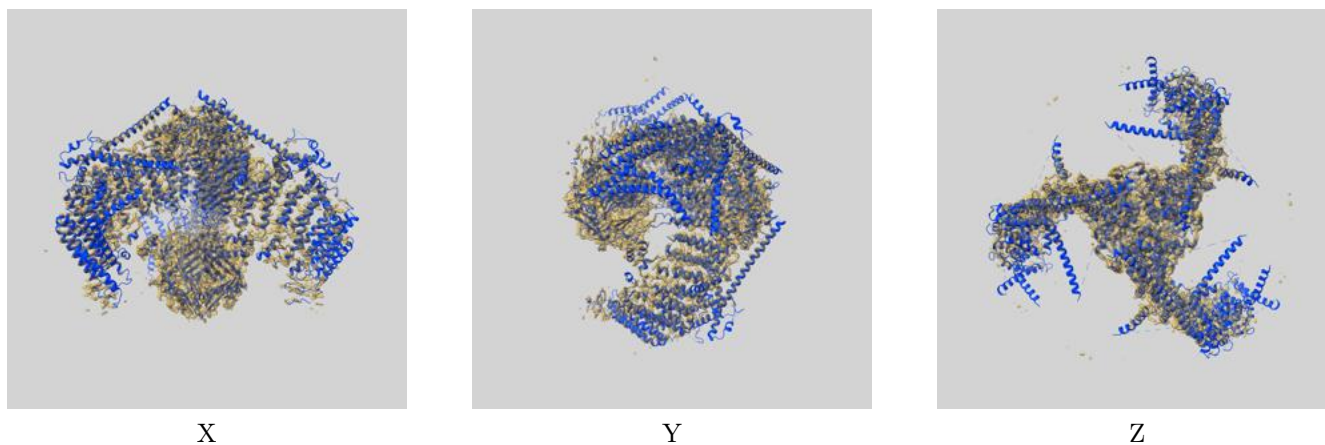
## 8 Fourier-Shell correlation

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-32592 and PDB model 7WLT. Per-residue inclusion information can be found in section [3](#) on page [8](#).

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



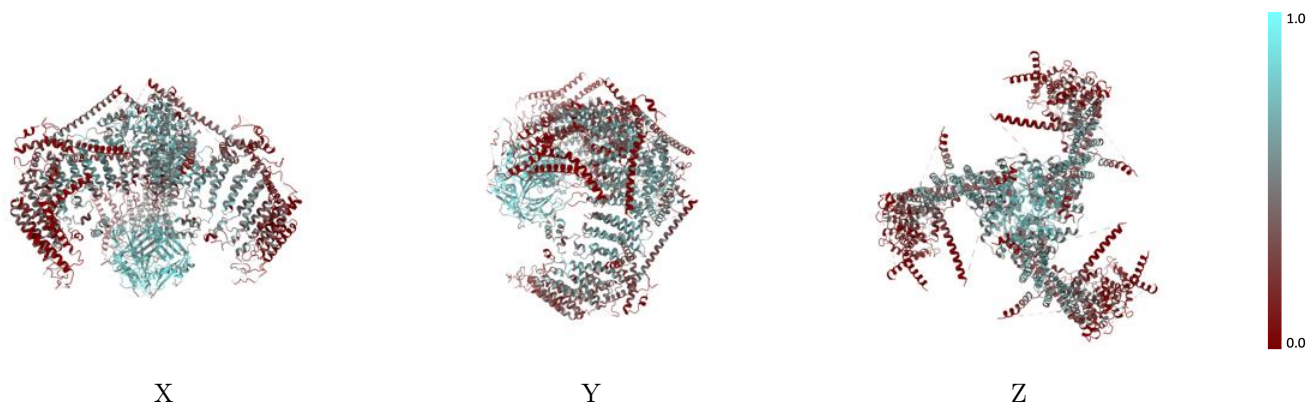
The images above show the 3D surface view of the map at the recommended contour level 0.018 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 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.

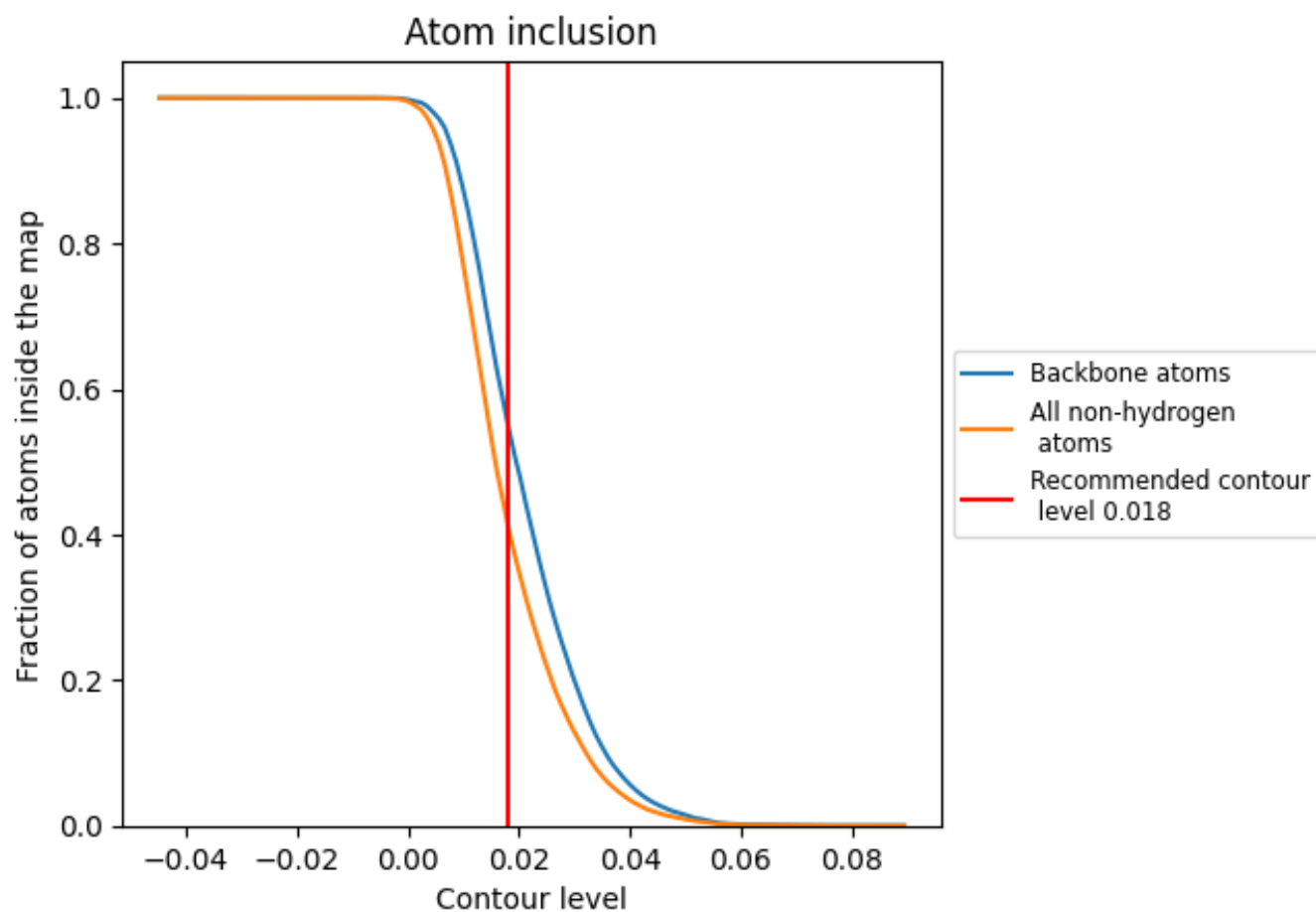
## 9.3 Atom inclusion mapped to coordinate model [i](#)



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 (0.018).











## 9.4 Atom inclusion [i](#)



At the recommended contour level, 55% of all backbone atoms, 41% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary [i](#)

The table lists the average atom inclusion at the recommended contour level (0.018) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.4134	 0.4620
A	 0.4127	 0.4620
C	 0.4128	 0.4620
E	 0.4148	 0.4620

