



Full wwPDB EM Validation Report ⓘ

Feb 23, 2025 – 12:40 AM JST

PDB ID : 8IXO
EMDB ID : EMD-35800
Title : Intermediate structure of mPIEZO1-S2472E
Authors : Liu, S.; Yang, X.; Chen, X.; Li, X.; Xiao, B.
Deposited on : 2023-04-01
Resolution : 4.00 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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev117
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.41.2

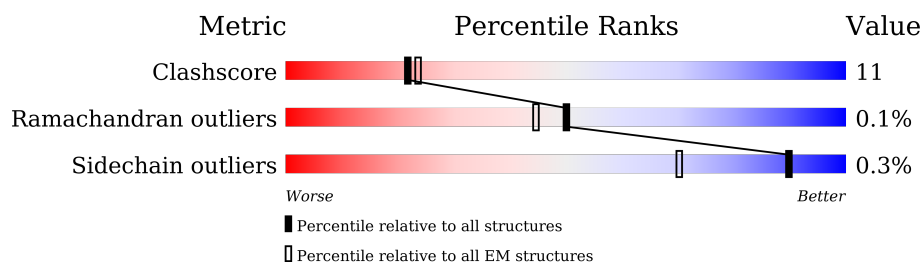
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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

Mol	Chain	Length	Quality of chain
1	A	2547	<div> <div>9%</div> <div>45%</div> <div>10%</div> <div>45%</div> </div>
1	B	2547	<div> <div>9%</div> <div>45%</div> <div>10%</div> <div>45%</div> </div>
1	F	2547	<div> <div>9%</div> <div>45%</div> <div>10%</div> <div>45%</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	2601	-	-	X	-
2	PLX	B	2601	-	-	X	-
2	PLX	F	2601	-	-	X	-

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	PEE	A	2605	-	-	X	-
4	PEE	B	2605	-	-	X	-
4	PEE	F	2605	-	-	X	-

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 32136 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.

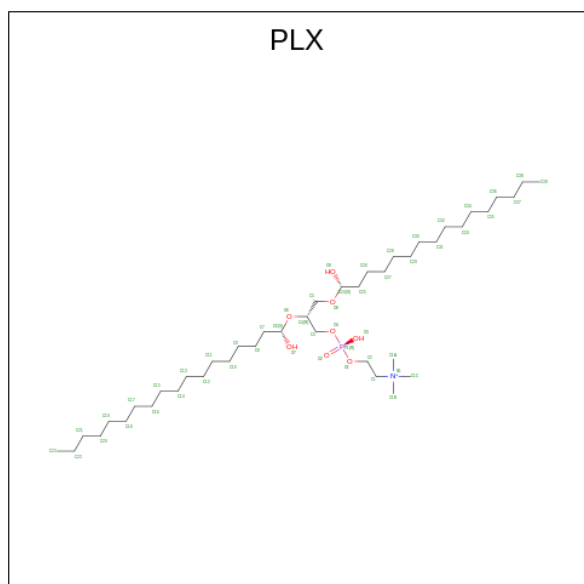
- Molecule 1 is a protein called Piezo-type mechanosensitive ion channel component 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	F	1395	Total	C	N	O	S	1	0
			10449	6827	1750	1816	56		
1	A	1395	Total	C	N	O	S	1	0
			10449	6827	1750	1816	56		
1	B	1395	Total	C	N	O	S	1	0
			10449	6827	1750	1816	56		

There are 3 discrepancies between the modelled and reference sequences:

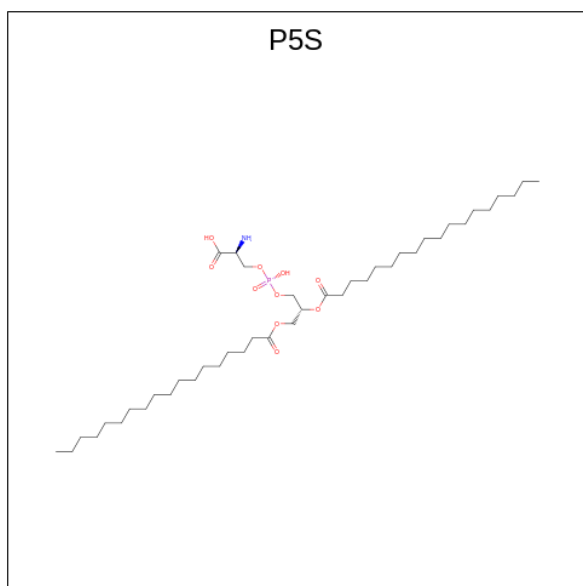
Chain	Residue	Modelled	Actual	Comment	Reference
F	2472	GLU	SER	engineered mutation	UNP E2JF22
A	2472	GLU	SER	engineered mutation	UNP E2JF22
B	2472	GLU	SER	engineered mutation	UNP E2JF22

- 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-TRIOL (three-letter code: PLX) (formula: C₄₂H₈₉NO₈P) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
2	F	1	Total	C	N	O	P	0
			52	42	1	8	1	
2	F	1	Total	C	N	O	P	0
			52	42	1	8	1	
2	A	1	Total	C	N	O	P	0
			52	42	1	8	1	
2	A	1	Total	C	N	O	P	0
			52	42	1	8	1	
2	B	1	Total	C	N	O	P	0
			52	42	1	8	1	
2	B	1	Total	C	N	O	P	0
			52	42	1	8	1	

- Molecule 3 is O-[(R)-{[(2R)-2,3-bis(octadecanoyloxy)propyl]oxy}(hydroxy)phosphoryl]-L-serine (three-letter code: P5S) (formula: C₄₂H₈₂NO₁₀P) (labeled as "Ligand of Interest" by depositor).



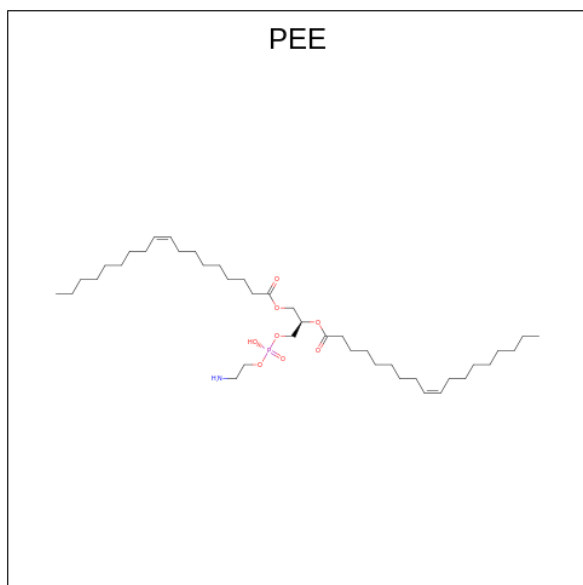
Mol	Chain	Residues	Atoms					AltConf
3	F	1	Total	C	N	O	P	0
			54	42	1	10	1	
3	F	1	Total	C	N	O	P	0
			54	42	1	10	1	
3	A	1	Total	C	N	O	P	0
			54	42	1	10	1	
3	A	1	Total	C	N	O	P	0
			54	42	1	10	1	
3	B	1	Total	C	N	O	P	0
			54	42	1	10	1	

Continued on next page...

Continued from previous page...

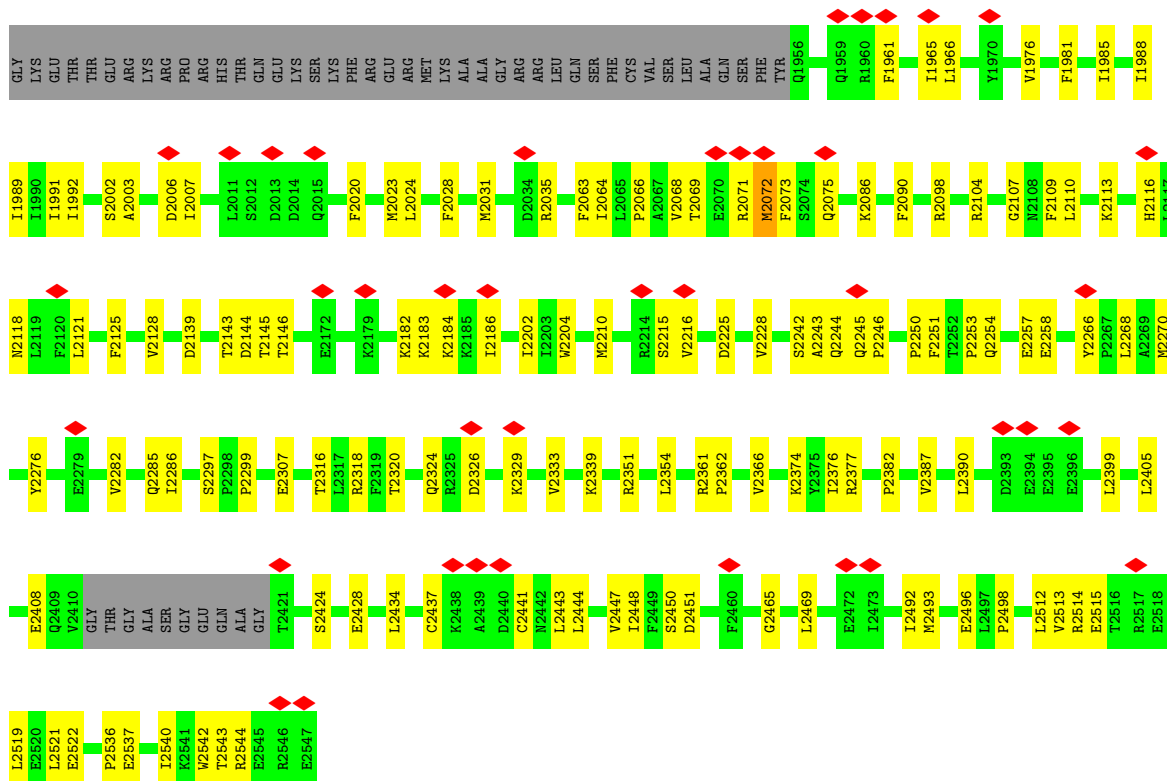
Mol	Chain	Residues	Atoms					AltConf
3	B	1	Total	C	N	O	P	0
			54	42	1	10	1	

- Molecule 4 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).

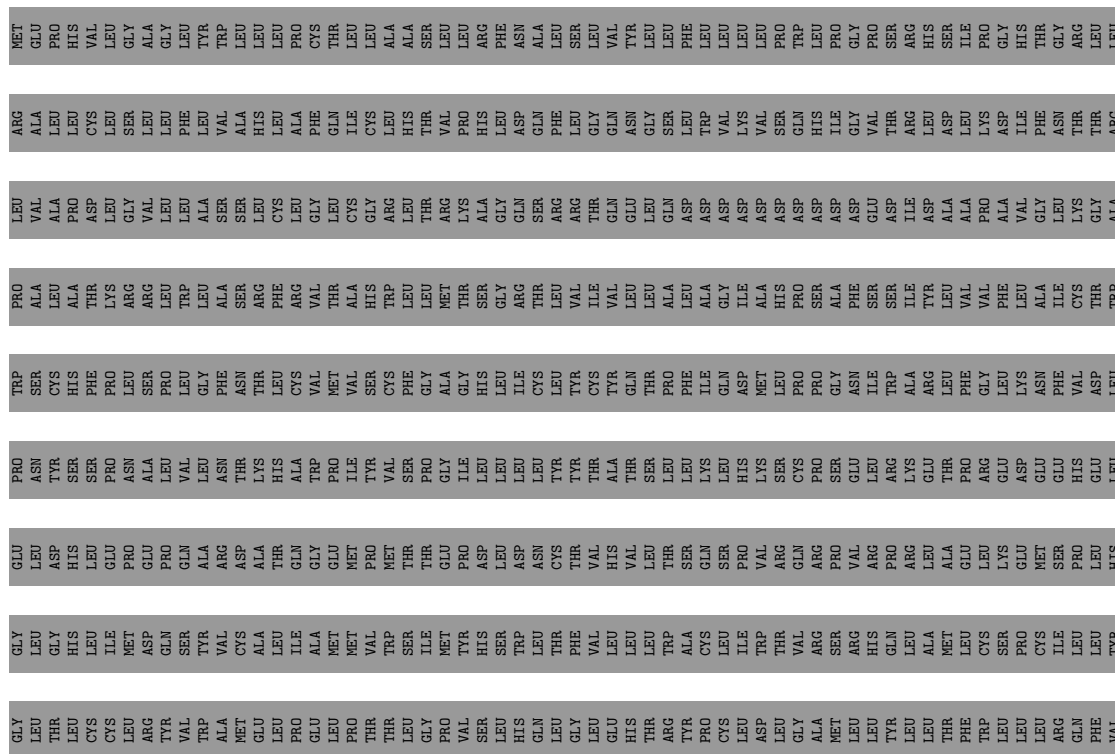
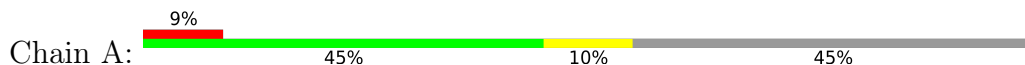


Mol	Chain	Residues	Atoms					AltConf
4	F	1	Total	C	N	O	P	0
			51	41	1	8	1	
4	A	1	Total	C	N	O	P	0
			51	41	1	8	1	
4	B	1	Total	C	N	O	P	0
			51	41	1	8	1	

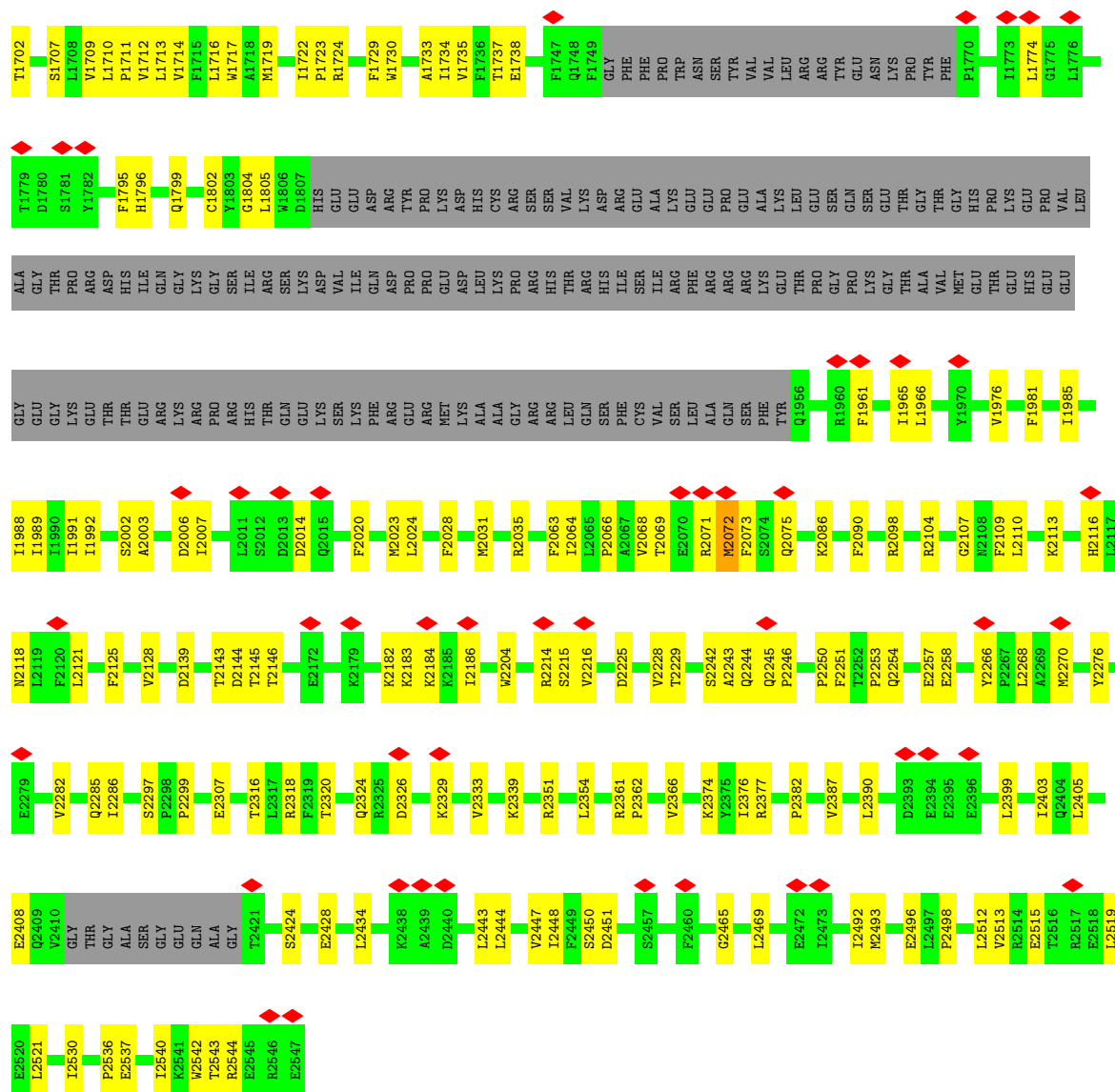




- Molecule 1: Piezo-type mechanosensitive ion channel component 1







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







4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	434112	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)	2300	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	38.850	Depositor
Minimum map value	-17.947	Depositor
Average map value	0.107	Depositor
Map value standard deviation	1.308	Depositor
Recommended contour level	11	Depositor
Map size (\AA)	404.02722, 404.02722, 404.02722	wwPDB
Map dimensions	368, 368, 368	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.0979, 1.0979, 1.0979	Depositor

5 Model quality

5.1 Standard geometry

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

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	0.25	0/10683	0.48	0/14554
1	B	0.25	0/10683	0.48	0/14554
1	F	0.25	0/10683	0.48	0/14554
All	All	0.25	0/32049	0.48	0/43662

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

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	10449	0	9768	239	0
1	B	10449	0	9768	235	0
1	F	10449	0	9768	234	0
2	A	104	0	176	39	0
2	B	104	0	176	40	0
2	F	104	0	176	38	0
3	A	108	0	160	25	0
3	B	108	0	160	25	0
3	F	108	0	160	25	0
4	A	51	0	78	24	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	B	51	0	78	24	0
4	F	51	0	78	24	0
All	All	32136	0	30546	714	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 11.

All (714) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1717:TRP:CH2	2:A:2601:PLX:H82	1.55	1.41
1:B:1717:TRP:CH2	2:B:2601:PLX:H82	1.58	1.37
1:F:1717:TRP:CH2	2:F:2601:PLX:H82	1.58	1.36
1:A:1717:TRP:HH2	2:A:2601:PLX:C9	1.46	1.28
1:F:1717:TRP:HH2	2:F:2601:PLX:C9	1.46	1.27
1:B:1717:TRP:HH2	2:B:2601:PLX:C9	1.46	1.27
1:F:1717:TRP:CH2	2:F:2601:PLX:H102	1.71	1.26
1:B:1717:TRP:CH2	2:B:2601:PLX:H102	1.71	1.24
1:F:1717:TRP:HH2	2:F:2601:PLX:C10	1.51	1.23
1:A:1717:TRP:CH2	2:A:2601:PLX:C8	2.23	1.21
1:B:1717:TRP:HH2	2:B:2601:PLX:C10	1.52	1.21
1:F:1717:TRP:CH2	2:F:2601:PLX:C8	2.24	1.20
1:A:1717:TRP:CH2	2:A:2601:PLX:H102	1.74	1.20
1:A:1717:TRP:HH2	2:A:2601:PLX:C10	1.54	1.19
1:B:1717:TRP:CH2	2:B:2601:PLX:C8	2.25	1.18
1:A:1717:TRP:NE1	2:A:2601:PLX:H24	1.58	1.17
1:B:1717:TRP:NE1	2:B:2601:PLX:H24	1.61	1.15
1:F:1717:TRP:NE1	2:F:2601:PLX:H24	1.61	1.15
1:A:1988:ILE:CD1	4:A:2605:PEE:H62	1.79	1.12
1:A:1717:TRP:CH2	2:A:2601:PLX:C9	2.33	1.11
1:F:1717:TRP:CH2	2:F:2601:PLX:C9	2.32	1.11
1:F:1988:ILE:CD1	4:F:2605:PEE:H62	1.80	1.10
3:F:2604:P5S:H46A	3:F:2604:P5S:H26A	1.30	1.10
1:B:1717:TRP:CH2	2:B:2601:PLX:C9	2.33	1.10
1:F:1717:TRP:CH2	2:F:2601:PLX:C10	2.33	1.09
1:B:1988:ILE:CD1	4:B:2605:PEE:H62	1.80	1.09
1:B:1717:TRP:CH2	2:B:2601:PLX:C10	2.34	1.08
3:A:2604:P5S:H46A	3:A:2604:P5S:H26A	1.30	1.06
3:B:2604:P5S:H26A	3:B:2604:P5S:H46A	1.30	1.05
1:A:1717:TRP:CH2	2:A:2601:PLX:C10	2.35	1.03
1:B:1717:TRP:HE1	2:B:2601:PLX:H261	1.24	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1717:TRP:HE1	2:A:2601:PLX:H261	1.26	0.99
1:F:1981:PHE:HZ	4:F:2605:PEE:H50	1.26	0.98
1:A:1981:PHE:HZ	4:A:2605:PEE:H50	1.26	0.97
1:B:1981:PHE:HZ	4:B:2605:PEE:H50	1.26	0.96
1:F:1717:TRP:HE1	2:F:2601:PLX:H261	1.23	0.96
1:B:1981:PHE:CZ	4:B:2605:PEE:H50	2.01	0.95
1:F:1981:PHE:CZ	4:F:2605:PEE:H50	2.01	0.95
1:A:1981:PHE:CZ	4:A:2605:PEE:H50	2.01	0.94
1:F:1717:TRP:CZ2	2:F:2601:PLX:H82	2.04	0.93
1:A:1717:TRP:CZ2	2:A:2601:PLX:H82	2.02	0.93
1:B:1717:TRP:CZ2	2:B:2601:PLX:H82	2.03	0.93
1:F:1717:TRP:HE1	2:F:2601:PLX:C26	1.84	0.90
1:B:1717:TRP:HE1	2:B:2601:PLX:C26	1.85	0.89
1:A:1717:TRP:HE1	2:A:2601:PLX:C26	1.86	0.87
1:A:1988:ILE:HD11	4:A:2605:PEE:H62	1.57	0.86
1:B:1988:ILE:HD11	4:B:2605:PEE:H62	1.59	0.84
1:F:1717:TRP:NE1	2:F:2601:PLX:H261	1.92	0.84
1:B:1717:TRP:NE1	2:B:2601:PLX:H261	1.93	0.83
1:F:1988:ILE:HD11	4:F:2605:PEE:H62	1.59	0.83
1:A:1717:TRP:HE1	2:A:2601:PLX:H24	1.39	0.83
1:A:1717:TRP:NE1	2:A:2601:PLX:C24	2.42	0.82
1:B:1717:TRP:HE1	2:B:2601:PLX:H24	1.42	0.82
1:F:1717:TRP:HE1	2:F:2601:PLX:H24	1.42	0.81
1:A:1717:TRP:NE1	2:A:2601:PLX:H261	1.94	0.81
1:F:2513:VAL:HG21	1:F:2521:LEU:HB3	1.63	0.81
1:A:2513:VAL:HG21	1:A:2521:LEU:HB3	1.63	0.81
1:B:1717:TRP:NE1	2:B:2601:PLX:C24	2.45	0.80
1:B:2513:VAL:HG21	1:B:2521:LEU:HB3	1.63	0.79
1:A:2182:LYS:HZ3	1:B:2145:THR:H	1.29	0.78
1:F:2145:THR:H	1:B:2182:LYS:HZ3	1.31	0.78
1:F:2182:LYS:HZ3	1:A:2145:THR:H	1.31	0.78
1:A:1292:LEU:HD11	3:A:2604:P5S:H20A	1.66	0.77
1:F:1292:LEU:HD11	3:F:2604:P5S:H20A	1.68	0.76
1:F:1988:ILE:HD12	4:F:2605:PEE:H62	1.68	0.76
1:F:1717:TRP:NE1	2:F:2601:PLX:C24	2.44	0.76
1:B:1988:ILE:HD12	4:B:2605:PEE:H62	1.68	0.76
1:B:1292:LEU:HD11	3:B:2604:P5S:H20A	1.69	0.75
1:F:1163:TRP:HB3	2:F:2602:PLX:H282	1.68	0.75
1:B:1163:TRP:HB3	2:B:2602:PLX:H282	1.68	0.75
1:B:1717:TRP:CZ2	2:B:2601:PLX:H102	2.21	0.75
1:A:1163:TRP:HB3	2:A:2602:PLX:H282	1.68	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1153:LEU:HD13	3:B:2604:P5S:C46	2.15	0.75
1:F:1153:LEU:HD13	3:F:2604:P5S:C46	2.17	0.74
1:F:1300:HIS:N	3:F:2604:P5S:O	2.20	0.74
1:A:1717:TRP:HE1	2:A:2601:PLX:C24	1.98	0.74
1:F:1717:TRP:HE1	2:F:2601:PLX:C24	2.00	0.74
1:B:1717:TRP:HE1	2:B:2601:PLX:C24	2.00	0.73
1:F:1717:TRP:CZ2	2:F:2601:PLX:H102	2.21	0.73
1:A:1988:ILE:HD12	4:A:2605:PEE:H62	1.67	0.73
3:A:2604:P5S:H26A	3:A:2604:P5S:C46	2.16	0.73
1:B:2107:GLY:O	4:B:2605:PEE:H9	1.89	0.73
3:B:2604:P5S:H26A	3:B:2604:P5S:C46	2.16	0.73
1:F:2107:GLY:O	4:F:2605:PEE:H9	1.89	0.73
1:A:1300:HIS:N	3:A:2604:P5S:O	2.22	0.73
1:B:2465:GLY:O	1:B:2469:LEU:N	2.23	0.72
1:A:1717:TRP:HZ2	2:A:2601:PLX:H252	1.54	0.72
1:B:979:LYS:HE2	3:B:2603:P5S:H51	1.71	0.72
1:B:1300:HIS:N	3:B:2604:P5S:O	2.22	0.72
1:A:1717:TRP:CE2	2:A:2601:PLX:H24	2.25	0.71
1:A:2465:GLY:O	1:A:2469:LEU:N	2.23	0.71
1:B:1989:ILE:HD11	4:B:2605:PEE:H81	1.73	0.71
1:A:1153:LEU:HD13	3:A:2604:P5S:C46	2.20	0.71
1:A:1717:TRP:CZ2	2:A:2601:PLX:H102	2.24	0.71
1:A:2107:GLY:O	4:A:2605:PEE:H9	1.91	0.71
1:F:1989:ILE:HD11	4:F:2605:PEE:H81	1.72	0.71
3:F:2604:P5S:H46A	3:F:2604:P5S:C26	2.16	0.71
3:F:2604:P5S:H26A	3:F:2604:P5S:C46	2.16	0.70
1:A:1989:ILE:HD11	4:A:2605:PEE:H81	1.72	0.70
3:B:2604:P5S:H46A	3:B:2604:P5S:C26	2.16	0.70
1:F:979:LYS:HE2	3:F:2603:P5S:H51	1.73	0.70
1:F:1717:TRP:HZ2	2:F:2601:PLX:H252	1.56	0.70
1:F:2465:GLY:O	1:F:2469:LEU:N	2.23	0.70
1:F:2031:MET:SD	4:F:2605:PEE:H61	2.32	0.70
1:B:2031:MET:SD	4:B:2605:PEE:H61	2.32	0.69
1:A:2031:MET:SD	4:A:2605:PEE:H61	2.32	0.69
1:A:1299:SER:HA	3:A:2604:P5S:O	1.93	0.69
1:A:1551:VAL:HG22	1:A:1554:GLY:H	1.57	0.69
3:F:2603:P5S:H26	3:F:2603:P5S:H52A	1.74	0.69
1:B:1717:TRP:HZ2	2:B:2601:PLX:H252	1.57	0.69
1:F:1683:VAL:HG21	2:F:2602:PLX:H111	1.75	0.69
1:F:2225:ASP:HB3	1:F:2324:GLN:HG2	1.74	0.69
1:A:979:LYS:HE2	3:A:2603:P5S:H51	1.75	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1009:MET:HB3	1:F:1043:PHE:HZ	1.58	0.69
1:F:1717:TRP:CH2	2:F:2601:PLX:H91	2.27	0.69
1:B:1717:TRP:CE2	2:B:2601:PLX:H24	2.28	0.69
1:B:1683:VAL:HG21	2:B:2602:PLX:H111	1.73	0.68
1:A:2225:ASP:HB3	1:A:2324:GLN:HG2	1.74	0.68
1:B:1009:MET:HB3	1:B:1043:PHE:HZ	1.58	0.68
3:B:2603:P5S:H54A	3:B:2603:P5S:H29	1.75	0.68
1:B:2225:ASP:HB3	1:B:2324:GLN:HG2	1.74	0.68
3:A:2604:P5S:H46A	3:A:2604:P5S:C26	2.16	0.68
1:F:1551:VAL:HG22	1:F:1554:GLY:H	1.57	0.68
1:F:1701:VAL:HG13	1:F:1702:THR:HG23	1.76	0.68
3:F:2603:P5S:H54A	3:F:2603:P5S:H29	1.74	0.68
1:A:1009:MET:HB3	1:A:1043:PHE:HZ	1.59	0.68
3:A:2603:P5S:H54A	3:A:2603:P5S:H29	1.75	0.68
1:B:979:LYS:HE3	3:B:2603:P5S:H53A	1.74	0.68
3:B:2603:P5S:H26	3:B:2603:P5S:H52A	1.74	0.68
1:A:1717:TRP:CH2	2:A:2601:PLX:H91	2.29	0.68
3:A:2603:P5S:H26	3:A:2603:P5S:H52A	1.74	0.68
1:B:1701:VAL:HG13	1:B:1702:THR:HG23	1.76	0.68
1:A:1717:TRP:HH2	2:A:2601:PLX:H91	1.56	0.67
1:B:1717:TRP:CH2	2:B:2601:PLX:H91	2.27	0.67
1:F:1717:TRP:CE2	2:F:2601:PLX:H24	2.28	0.67
1:B:1551:VAL:HG22	1:B:1554:GLY:H	1.57	0.67
1:A:1701:VAL:HG13	1:A:1702:THR:HG23	1.76	0.67
1:F:2068:VAL:HG13	1:F:2069:THR:HG23	1.77	0.66
1:F:979:LYS:HE3	3:F:2603:P5S:H53A	1.78	0.66
1:F:2228:VAL:HG11	1:F:2286:ILE:HD13	1.78	0.66
1:A:1683:VAL:HG21	2:A:2602:PLX:H111	1.78	0.66
1:B:2139:ASP:O	1:B:2143:THR:HG22	1.96	0.66
1:A:2139:ASP:O	1:A:2143:THR:HG22	1.96	0.65
1:B:2068:VAL:HG13	1:B:2069:THR:HG23	1.77	0.65
1:A:2068:VAL:HG13	1:A:2069:THR:HG23	1.77	0.65
1:F:1299:SER:HA	3:F:2604:P5S:O	1.96	0.65
1:B:1299:SER:HA	3:B:2604:P5S:O	1.96	0.65
1:B:1153:LEU:HD13	3:B:2604:P5S:C48	2.27	0.65
1:A:2228:VAL:HG11	1:A:2286:ILE:HD13	1.78	0.65
1:F:2139:ASP:O	1:F:2143:THR:HG22	1.96	0.64
1:A:1717:TRP:CZ2	2:A:2601:PLX:H252	2.33	0.64
1:F:1722:ILE:HD12	1:F:1722:ILE:H	1.63	0.64
1:F:1717:TRP:CZ2	2:F:2601:PLX:H252	2.34	0.63
1:A:1164:LEU:HD13	2:A:2602:PLX:H321	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:979:LYS:HE3	3:A:2603:P5S:H53A	1.80	0.63
1:B:2228:VAL:HG11	1:B:2286:ILE:HD13	1.78	0.63
1:F:1989:ILE:HD12	4:F:2605:PEE:H43	1.81	0.63
1:F:1717:TRP:HE1	2:F:2601:PLX:C25	2.12	0.62
1:B:1989:ILE:HD12	4:B:2605:PEE:H43	1.81	0.62
1:B:1722:ILE:H	1:B:1722:ILE:HD12	1.63	0.62
1:F:1153:LEU:HD13	3:F:2604:P5S:C48	2.30	0.62
1:A:1722:ILE:HD12	1:A:1722:ILE:H	1.63	0.62
1:B:1687:SER:O	1:B:1796:HIS:ND1	2.32	0.62
1:A:1687:SER:O	1:A:1796:HIS:ND1	2.33	0.62
1:F:1687:SER:O	1:F:1796:HIS:ND1	2.32	0.62
1:B:1717:TRP:CZ2	2:B:2601:PLX:H252	2.34	0.62
1:F:1722:ILE:HD13	1:F:1965:ILE:HG22	1.81	0.62
1:A:1989:ILE:HD12	4:A:2605:PEE:H43	1.81	0.62
1:A:1717:TRP:HE1	2:A:2601:PLX:C25	2.12	0.61
1:B:2361:ARG:HD3	1:B:2362:PRO:HD2	1.81	0.61
1:F:1164:LEU:HD13	2:F:2602:PLX:H321	1.82	0.61
1:A:2361:ARG:HD3	1:A:2362:PRO:HD2	1.82	0.61
1:A:1722:ILE:HD13	1:A:1965:ILE:HG22	1.81	0.61
1:F:2361:ARG:HD3	1:F:2362:PRO:HD2	1.81	0.60
1:B:1722:ILE:HD13	1:B:1965:ILE:HG22	1.81	0.60
1:B:1717:TRP:HE1	2:B:2601:PLX:C25	2.13	0.60
1:A:1207:LEU:HD21	1:A:1298:LEU:HD21	1.83	0.60
1:B:1153:LEU:HD13	3:B:2604:P5S:H46	1.83	0.60
2:A:2602:PLX:H192	2:A:2602:PLX:H232	1.83	0.60
1:B:1717:TRP:HH2	2:B:2601:PLX:H91	1.55	0.59
2:B:2602:PLX:H232	2:B:2602:PLX:H192	1.83	0.59
1:A:1988:ILE:CD1	4:A:2605:PEE:C38	2.70	0.59
1:B:1300:HIS:HA	1:B:1303:LEU:HD12	1.85	0.59
1:F:2434:LEU:HG	1:F:2444:LEU:HD22	1.84	0.59
2:F:2602:PLX:H192	2:F:2602:PLX:H232	1.83	0.59
1:B:988:LYS:O	1:B:1295:ARG:NH1	2.35	0.59
1:B:2254:GLN:NE2	1:B:2258:GLU:OE2	2.36	0.59
1:F:988:LYS:O	1:F:1295:ARG:NH1	2.35	0.59
1:A:988:LYS:O	1:A:1295:ARG:NH1	2.35	0.59
1:F:1207:LEU:HD21	1:F:1298:LEU:HD21	1.83	0.59
1:A:1160:TYR:HE1	2:A:2602:PLX:O2	1.86	0.59
1:F:2254:GLN:NE2	1:F:2258:GLU:OE2	2.36	0.59
1:F:1160:TYR:HE1	2:F:2602:PLX:O2	1.86	0.59
1:B:1207:LEU:HD21	1:B:1298:LEU:HD21	1.83	0.59
1:A:2254:GLN:NE2	1:A:2258:GLU:OE2	2.36	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2434:LEU:HG	1:A:2444:LEU:HD22	1.84	0.58
1:B:1709:VAL:HG22	1:B:1713:LEU:HD23	1.85	0.58
1:B:2066:PRO:HB3	1:B:2072:MET:HA	1.85	0.58
1:A:1709:VAL:HG22	1:A:1713:LEU:HD23	1.86	0.58
1:A:1981:PHE:HZ	4:A:2605:PEE:C32	2.10	0.58
1:A:1153:LEU:HD13	3:A:2604:P5S:C48	2.33	0.58
1:B:2434:LEU:HG	1:B:2444:LEU:HD22	1.84	0.58
1:B:1147:ARG:H	1:B:1151:ASP:HB2	1.69	0.58
1:A:981:PHE:HZ	3:A:2604:P5S:H39	1.69	0.58
1:B:1795:PHE:CE1	2:B:2602:PLX:H71	2.38	0.58
1:A:1147:ARG:H	1:A:1151:ASP:HB2	1.69	0.57
1:A:2066:PRO:HB3	1:A:2072:MET:HA	1.85	0.57
1:B:1164:LEU:HD13	2:B:2602:PLX:H321	1.84	0.57
1:B:2186:ILE:HD12	1:B:2186:ILE:H	1.69	0.57
1:F:2066:PRO:HB3	1:F:2072:MET:HA	1.85	0.57
1:F:1709:VAL:HG22	1:F:1713:LEU:HD23	1.85	0.57
4:F:2605:PEE:H42	4:F:2605:PEE:H79	1.86	0.57
1:B:1160:TYR:HE1	2:B:2602:PLX:O2	1.87	0.57
1:F:1147:ARG:H	1:F:1151:ASP:HB2	1.69	0.57
1:F:2186:ILE:HD12	1:F:2186:ILE:H	1.69	0.57
1:F:1981:PHE:HZ	4:F:2605:PEE:C32	2.10	0.57
1:F:1985:ILE:HD12	4:F:2605:PEE:H67	1.87	0.57
1:A:1153:LEU:HD13	3:A:2604:P5S:H46	1.87	0.57
4:B:2605:PEE:H79	4:B:2605:PEE:H42	1.86	0.57
1:A:2186:ILE:HD12	1:A:2186:ILE:H	1.69	0.56
1:B:1140:ILE:HA	1:B:1143:PHE:HD2	1.71	0.56
1:F:1415:PHE:HB3	1:F:2542:TRP:HE1	1.71	0.56
1:F:2387:VAL:HG11	1:F:2390:LEU:HD23	1.87	0.56
2:F:2602:PLX:H391	3:F:2604:P5S:H31	1.88	0.56
1:A:1140:ILE:HA	1:A:1143:PHE:HD2	1.70	0.56
1:A:1159:ARG:HH21	2:A:2602:PLX:H21	1.70	0.56
1:B:1159:ARG:HH21	2:B:2602:PLX:H21	1.71	0.56
1:F:1140:ILE:HA	1:F:1143:PHE:HD2	1.70	0.56
1:F:1153:LEU:HD13	3:F:2604:P5S:H46	1.85	0.56
1:A:1985:ILE:HD12	4:A:2605:PEE:H67	1.88	0.56
4:A:2605:PEE:H42	4:A:2605:PEE:H79	1.86	0.56
1:B:1985:ILE:CD1	4:B:2605:PEE:H67	2.35	0.56
1:B:1985:ILE:HD12	4:B:2605:PEE:H67	1.87	0.56
1:B:1991:ILE:HD13	1:B:2023:MET:HB3	1.88	0.56
1:A:1415:PHE:HB3	1:A:2542:TRP:HE1	1.71	0.56
1:A:2204:TRP:HH2	1:B:2024:LEU:HB3	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2387:VAL:HG11	1:A:2390:LEU:HD23	1.87	0.56
1:F:2035:ARG:NH2	1:F:2139:ASP:OD1	2.35	0.56
1:A:1991:ILE:HD13	1:A:2023:MET:HB3	1.88	0.56
1:B:1699:HIS:ND1	1:B:1707:SER:O	2.39	0.56
1:A:1699:HIS:ND1	1:A:1707:SER:O	2.39	0.56
1:B:1230:LEU:HD21	1:B:1238:MET:HG2	1.88	0.56
1:A:2109:PHE:CB	4:A:2605:PEE:H12	2.36	0.56
1:B:1415:PHE:HB3	1:B:2542:TRP:HE1	1.71	0.56
1:F:1699:HIS:ND1	1:F:1707:SER:O	2.39	0.56
1:A:1795:PHE:CE1	2:A:2602:PLX:H71	2.41	0.56
1:F:1795:PHE:CE1	2:F:2602:PLX:H71	2.40	0.56
1:F:2109:PHE:CB	4:F:2605:PEE:H12	2.36	0.56
2:A:2602:PLX:H391	3:A:2604:P5S:H31	1.88	0.55
1:B:2387:VAL:HG11	1:B:2390:LEU:HD23	1.87	0.55
1:F:1985:ILE:CD1	4:F:2605:PEE:H67	2.35	0.55
1:A:1230:LEU:HD21	1:A:1238:MET:HG2	1.88	0.55
1:F:1159:ARG:HH21	2:F:2602:PLX:H21	1.70	0.55
1:F:1230:LEU:HD21	1:F:1238:MET:HG2	1.88	0.55
2:B:2602:PLX:H391	3:B:2604:P5S:H31	1.88	0.55
1:A:2285:GLN:HB3	1:A:2443:LEU:HD11	1.89	0.55
1:A:1722:ILE:HD11	1:A:1966:LEU:HD22	1.89	0.55
1:B:2405:LEU:HD11	1:B:2428:GLU:HB2	1.89	0.55
1:F:1991:ILE:HD13	1:F:2023:MET:HB3	1.88	0.55
1:A:1011:ILE:HD11	1:A:1226:MET:HG2	1.89	0.55
1:B:1140:ILE:O	1:B:1144:ILE:HG13	2.07	0.55
1:F:2405:LEU:HD11	1:F:2428:GLU:HB2	1.89	0.55
1:A:1985:ILE:CD1	4:A:2605:PEE:H67	2.36	0.55
1:A:2035:ARG:NH2	1:A:2139:ASP:OD1	2.35	0.55
1:F:981:PHE:HZ	3:F:2604:P5S:H39	1.71	0.55
1:B:1730:TRP:O	1:B:1734:ILE:HD12	2.07	0.55
1:B:1011:ILE:HD11	1:B:1226:MET:HG2	1.89	0.54
1:B:1722:ILE:HD11	1:B:1966:LEU:HD22	1.89	0.54
1:F:1722:ILE:HD11	1:F:1966:LEU:HD22	1.89	0.54
1:F:2204:TRP:HH2	1:A:2024:LEU:HB3	1.71	0.54
3:F:2603:P5S:H40A	3:F:2603:P5S:H1	1.89	0.54
1:F:2285:GLN:HB3	1:F:2443:LEU:HD11	1.89	0.54
1:B:1163:TRP:CB	2:B:2602:PLX:H282	2.38	0.54
1:B:2075:GLN:CD	1:B:2075:GLN:H	2.11	0.54
1:F:1011:ILE:HD11	1:F:1226:MET:HG2	1.89	0.54
1:F:2024:LEU:HB3	1:B:2204:TRP:HH2	1.72	0.54
1:B:2376:ILE:HB	1:B:2448:ILE:HG22	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1730:TRP:O	1:A:1734:ILE:HD12	2.07	0.54
1:B:1169:VAL:HG12	1:B:1188:CYS:HB2	1.90	0.54
1:A:2229:THR:HG1	1:A:2320:THR:HG1	1.55	0.54
1:F:1140:ILE:O	1:F:1144:ILE:HG13	2.07	0.54
1:F:2075:GLN:CD	1:F:2075:GLN:H	2.11	0.54
1:A:1169:VAL:HG12	1:A:1188:CYS:HB2	1.90	0.54
1:A:2075:GLN:CD	1:A:2075:GLN:H	2.11	0.54
1:B:1988:ILE:HD12	4:B:2605:PEE:C38	2.37	0.54
1:B:2109:PHE:CB	4:B:2605:PEE:H12	2.37	0.54
1:B:2285:GLN:HB3	1:B:2443:LEU:HD11	1.89	0.54
3:B:2603:P5S:H1	3:B:2603:P5S:H40A	1.89	0.54
1:F:1300:HIS:HA	1:F:1303:LEU:HD12	1.90	0.53
1:F:2002:SER:OG	1:F:2071:ARG:NH2	2.40	0.53
1:F:1163:TRP:CB	2:F:2602:PLX:H282	2.38	0.53
1:F:1730:TRP:O	1:F:1734:ILE:HD12	2.07	0.53
4:F:2605:PEE:H1	4:F:2605:PEE:O2P	2.08	0.53
1:A:1211:ASP:HA	1:A:1214:ILE:HG12	1.91	0.53
1:A:2405:LEU:HD11	1:A:2428:GLU:HB2	1.89	0.53
1:F:2110:LEU:HD21	1:F:2121:LEU:HD22	1.90	0.53
1:A:1140:ILE:O	1:A:1144:ILE:HG13	2.07	0.53
1:A:2002:SER:OG	1:A:2071:ARG:NH2	2.40	0.53
1:F:1169:VAL:HG12	1:F:1188:CYS:HB2	1.90	0.53
1:F:1505:LEU:HD12	1:F:1507:VAL:H	1.74	0.53
1:A:995:PHE:HE2	1:A:1021:LEU:HD13	1.73	0.53
1:A:1300:HIS:HA	1:A:1303:LEU:HD12	1.90	0.53
1:B:981:PHE:HZ	3:B:2604:P5S:H39	1.74	0.53
1:B:995:PHE:HE2	1:B:1021:LEU:HD13	1.73	0.53
1:B:2110:LEU:HD21	1:B:2121:LEU:HD22	1.90	0.53
1:F:1403:HIS:NE2	1:F:1407:ILE:HD11	2.24	0.53
1:A:1988:ILE:HD12	4:A:2605:PEE:C38	2.36	0.53
1:A:2376:ILE:HB	1:A:2448:ILE:HG22	1.90	0.53
1:A:1505:LEU:HD12	1:A:1507:VAL:H	1.74	0.53
1:A:2492:ILE:HG23	1:A:2496:GLU:HG3	1.91	0.53
1:B:1505:LEU:HD12	1:B:1507:VAL:H	1.74	0.53
1:B:1719:MET:O	1:B:2098:ARG:NH1	2.42	0.53
1:F:2376:ILE:HB	1:F:2448:ILE:HG22	1.90	0.53
1:F:2492:ILE:HG23	1:F:2496:GLU:HG3	1.91	0.53
1:F:1246:ILE:HA	1:F:1251:LEU:HD23	1.91	0.52
1:A:1719:MET:O	1:A:2098:ARG:NH1	2.42	0.52
1:B:1403:HIS:NE2	1:B:1407:ILE:HD11	2.24	0.52
3:A:2603:P5S:H40A	3:A:2603:P5S:H1	1.89	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:2605:PEE:H1	4:B:2605:PEE:O2P	2.08	0.52
1:A:1403:HIS:NE2	1:A:1407:ILE:HD11	2.24	0.52
1:F:1164:LEU:HD22	2:F:2602:PLX:H341	1.92	0.52
1:F:1719:MET:O	1:F:2098:ARG:NH1	2.42	0.52
1:A:2182:LYS:NZ	1:B:2144:ASP:HA	2.24	0.52
1:B:1981:PHE:HZ	4:B:2605:PEE:C32	2.11	0.52
1:B:1211:ASP:HA	1:B:1214:ILE:HG12	1.91	0.52
1:B:2492:ILE:HG23	1:B:2496:GLU:HG3	1.91	0.52
1:F:1211:ASP:HA	1:F:1214:ILE:HG12	1.91	0.52
1:A:1299:SER:CA	3:A:2604:P5S:O	2.57	0.52
1:F:2182:LYS:NZ	1:A:2144:ASP:HA	2.25	0.52
1:A:1981:PHE:CE1	4:A:2605:PEE:C30	2.93	0.52
1:A:2110:LEU:HD21	1:A:2121:LEU:HD22	1.90	0.52
1:B:1164:LEU:HD22	2:B:2602:PLX:H341	1.92	0.52
4:A:2605:PEE:H1	4:A:2605:PEE:O2P	2.08	0.52
1:B:2035:ARG:NH2	1:B:2139:ASP:OD1	2.35	0.52
1:F:995:PHE:HE2	1:F:1021:LEU:HD13	1.73	0.52
1:B:1246:ILE:HA	1:B:1251:LEU:HD23	1.91	0.52
1:F:2182:LYS:HZ3	1:A:2145:THR:N	2.05	0.51
1:A:1246:ILE:HA	1:A:1251:LEU:HD23	1.91	0.51
1:A:1163:TRP:CB	2:A:2602:PLX:H282	2.38	0.51
1:A:2182:LYS:NZ	1:B:2145:THR:H	2.05	0.51
1:A:1164:LEU:HD22	2:A:2602:PLX:H341	1.92	0.51
1:A:1002:ILE:HA	1:A:1010:VAL:CG1	2.41	0.51
1:F:2113:LYS:HG3	1:F:2118:ASN:HD21	1.76	0.51
1:F:1335:ARG:O	1:F:1339:GLU:HG2	2.11	0.51
1:A:1335:ARG:O	1:A:1339:GLU:HG2	2.11	0.51
1:B:1318:ARG:NE	1:B:1537:GLU:OE2	2.44	0.51
1:B:2002:SER:OG	1:B:2071:ARG:NH2	2.40	0.51
1:F:1988:ILE:HD12	4:F:2605:PEE:C38	2.37	0.51
1:B:1335:ARG:O	1:B:1339:GLU:HG2	2.11	0.51
1:F:1318:ARG:NE	1:F:1537:GLU:OE2	2.44	0.50
1:A:1318:ARG:NE	1:A:1537:GLU:OE2	2.44	0.50
1:A:2113:LYS:HG3	1:A:2118:ASN:HD21	1.76	0.50
1:B:2320:THR:HG22	1:B:2339:LYS:HB3	1.93	0.50
1:F:1299:SER:CA	3:F:2604:P5S:O	2.59	0.50
1:B:1002:ILE:HA	1:B:1010:VAL:CG1	2.41	0.50
1:B:1153:LEU:HD13	3:B:2604:P5S:H48A	1.93	0.50
1:F:2450:SER:OG	1:F:2451:ASP:N	2.45	0.50
1:B:2113:LYS:HG3	1:B:2118:ASN:HD21	1.76	0.50
1:B:2450:SER:OG	1:B:2451:ASP:N	2.45	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1292:LEU:HD11	3:A:2604:P5S:C20	2.38	0.50
1:F:1292:LEU:HD11	3:F:2604:P5S:C20	2.40	0.50
1:F:1981:PHE:CE1	4:F:2605:PEE:C30	2.95	0.50
1:F:2144:ASP:HA	1:B:2182:LYS:NZ	2.26	0.50
1:F:2063:PHE:O	1:F:2066:PRO:HD2	2.12	0.50
1:A:2063:PHE:O	1:A:2066:PRO:HD2	2.12	0.50
1:A:2320:THR:HG22	1:A:2339:LYS:HB3	1.93	0.50
1:B:1299:SER:CA	3:B:2604:P5S:O	2.59	0.50
1:B:1723:PRO:O	1:B:1724:ARG:HG2	2.12	0.50
1:F:2145:THR:H	1:B:2182:LYS:NZ	2.05	0.50
1:B:1981:PHE:CE1	4:B:2605:PEE:C30	2.95	0.50
1:F:2145:THR:N	1:B:2182:LYS:HZ3	2.05	0.49
1:F:2242:SER:OG	1:F:2243:ALA:N	2.45	0.49
1:A:2028:PHE:CD1	4:A:2605:PEE:H60	2.47	0.49
1:B:1981:PHE:CZ	4:B:2605:PEE:C32	2.87	0.49
1:A:2242:SER:OG	1:A:2243:ALA:N	2.45	0.49
1:F:1002:ILE:HA	1:F:1010:VAL:CG1	2.41	0.49
1:A:1282:TRP:CE3	1:A:1285:ILE:HD11	2.48	0.49
1:F:1282:TRP:CE3	1:F:1285:ILE:HD11	2.48	0.49
1:F:1723:PRO:O	1:F:1724:ARG:HG2	2.12	0.49
1:F:1992:ILE:HD13	1:F:2020:PHE:HE1	1.78	0.49
1:F:2424:SER:OG	1:A:2408:GLU:OE1	2.31	0.49
1:A:1961:PHE:O	1:A:1965:ILE:HG12	2.13	0.49
1:B:1992:ILE:HD13	1:B:2020:PHE:HE1	1.78	0.49
1:B:2063:PHE:O	1:B:2066:PRO:HD2	2.12	0.49
1:F:2028:PHE:CD1	4:F:2605:PEE:H60	2.48	0.49
1:F:2320:THR:HG22	1:F:2339:LYS:HB3	1.93	0.49
1:A:1723:PRO:O	1:A:1724:ARG:HG2	2.12	0.49
1:B:1961:PHE:O	1:B:1965:ILE:HG12	2.13	0.49
1:A:1164:LEU:HD13	2:A:2602:PLX:H341	1.94	0.49
1:A:1992:ILE:HD13	1:A:2020:PHE:HE1	1.78	0.49
1:F:2276:TYR:OH	1:F:2377:ARG:NH2	2.46	0.49
1:B:1282:TRP:CE3	1:B:1285:ILE:HD11	2.48	0.49
1:B:1329:LYS:HD2	1:B:1649:LEU:HD21	1.95	0.49
1:A:2450:SER:OG	1:A:2451:ASP:N	2.45	0.49
1:B:2242:SER:OG	1:B:2243:ALA:N	2.45	0.49
1:F:1670:GLY:O	1:F:1674:ARG:NH2	2.45	0.48
1:A:1976:VAL:O	1:A:1976:VAL:HG23	2.13	0.48
1:F:2182:LYS:NZ	1:A:2145:THR:H	2.06	0.48
1:A:1981:PHE:CZ	4:A:2605:PEE:C32	2.86	0.48
1:A:2276:TYR:OH	1:A:2377:ARG:NH2	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2276:TYR:OH	1:B:2377:ARG:NH2	2.46	0.48
1:F:1164:LEU:HD13	2:F:2602:PLX:H341	1.95	0.48
1:A:1140:ILE:HA	1:A:1143:PHE:CD2	2.49	0.48
1:B:1670:GLY:O	1:B:1674:ARG:NH2	2.45	0.48
1:F:1140:ILE:HA	1:F:1143:PHE:CD2	2.49	0.48
1:F:1961:PHE:O	1:F:1965:ILE:HG12	2.13	0.48
1:F:1981:PHE:CZ	4:F:2605:PEE:C32	2.86	0.48
1:A:1007:ASN:H	1:A:1010:VAL:CG2	2.27	0.48
1:A:2354:LEU:HD22	1:A:2366:VAL:HG11	1.96	0.48
1:B:1989:ILE:HD12	4:B:2605:PEE:C26	2.44	0.48
1:F:1329:LYS:HD2	1:F:1649:LEU:HD21	1.95	0.48
1:F:2361:ARG:HD3	1:F:2362:PRO:CD	2.44	0.48
1:F:2408:GLU:OE1	1:B:2424:SER:OG	2.30	0.48
1:A:2215:SER:OG	1:A:2216:VAL:N	2.45	0.48
1:B:2028:PHE:CD1	4:B:2605:PEE:H60	2.48	0.48
1:B:2374:LYS:HD2	1:B:2399:LEU:HD11	1.96	0.48
1:F:1153:LEU:HD13	3:F:2604:P5S:H48A	1.95	0.48
1:F:2215:SER:OG	1:F:2216:VAL:N	2.45	0.48
1:A:2424:SER:OG	1:B:2408:GLU:OE1	2.30	0.48
1:F:1976:VAL:O	1:F:1976:VAL:HG23	2.13	0.48
1:F:2244:GLN:HE22	1:B:2318:ARG:NH2	2.12	0.48
1:F:2354:LEU:HD22	1:F:2366:VAL:HG11	1.96	0.48
1:A:1989:ILE:HD12	4:A:2605:PEE:C26	2.44	0.48
1:B:1292:LEU:HD11	3:B:2604:P5S:C20	2.42	0.48
1:F:1011:ILE:CD1	1:F:1226:MET:HG2	2.44	0.47
1:F:1795:PHE:HA	2:F:2602:PLX:H24	1.96	0.47
1:A:1795:PHE:HA	2:A:2602:PLX:H24	1.96	0.47
1:A:2374:LYS:HD2	1:A:2399:LEU:HD11	1.96	0.47
1:B:1164:LEU:HD13	2:B:2602:PLX:H341	1.96	0.47
1:B:2215:SER:OG	1:B:2216:VAL:N	2.45	0.47
1:B:2354:LEU:HD22	1:B:2366:VAL:HG11	1.96	0.47
1:F:1665:PHE:HD1	1:F:1669:GLN:HE21	1.63	0.47
1:F:2326:ASP:HB3	1:F:2329:LYS:NZ	2.29	0.47
1:B:1976:VAL:HG23	1:B:1976:VAL:O	2.13	0.47
1:B:1988:ILE:CD1	4:B:2605:PEE:C38	2.72	0.47
1:F:1175:THR:HG21	1:F:1282:TRP:CD1	2.50	0.47
1:A:2245:GLN:HG2	1:A:2246:PRO:HD3	1.97	0.47
1:F:2250:PRO:HA	1:F:2282:VAL:HG12	1.96	0.47
1:A:1011:ILE:CD1	1:A:1226:MET:HG2	2.44	0.47
1:B:1795:PHE:HA	2:B:2602:PLX:H24	1.96	0.47
1:F:1525:LYS:O	1:F:1529:THR:HG23	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2245:GLN:HG2	1:B:2246:PRO:HD3	1.97	0.47
1:B:2250:PRO:HA	1:B:2282:VAL:HG12	1.96	0.47
1:F:1007:ASN:H	1:F:1010:VAL:CG2	2.27	0.47
1:A:1351[A]:ARG:HD3	1:A:1351[A]:ARG:HA	1.76	0.47
1:A:2063:PHE:H	1:A:2066:PRO:HD2	1.79	0.47
1:B:1011:ILE:CD1	1:B:1226:MET:HG2	2.44	0.47
1:B:2326:ASP:HB3	1:B:2329:LYS:NZ	2.30	0.47
1:A:1175:THR:HG21	1:A:1282:TRP:CD1	2.50	0.47
1:A:1191:LEU:HD21	1:A:1209:LEU:HD21	1.97	0.47
1:A:1717:TRP:CZ2	2:A:2601:PLX:C8	2.81	0.47
1:A:2250:PRO:HA	1:A:2282:VAL:HG12	1.96	0.47
1:A:2326:ASP:HB3	1:A:2329:LYS:NZ	2.29	0.47
1:B:1525:LYS:O	1:B:1529:THR:HG23	2.15	0.47
1:B:2361:ARG:HD3	1:B:2362:PRO:CD	2.44	0.47
1:F:2063:PHE:H	1:F:2066:PRO:HD2	1.79	0.47
1:F:2318:ARG:NH2	1:A:2244:GLN:HE22	2.13	0.47
1:F:2333:VAL:HG21	1:F:2382:PRO:HB3	1.97	0.47
1:F:2374:LYS:HD2	1:F:2399:LEU:HD11	1.96	0.47
1:A:995:PHE:CE2	1:A:1021:LEU:HD13	2.50	0.47
1:A:1329:LYS:HD2	1:A:1649:LEU:HD21	1.95	0.47
1:A:1670:GLY:O	1:A:1674:ARG:NH2	2.45	0.47
1:A:1981:PHE:CD1	4:A:2605:PEE:H7	2.49	0.47
1:B:1007:ASN:H	1:B:1010:VAL:CG2	2.27	0.47
1:B:1665:PHE:HD1	1:B:1669:GLN:HE21	1.63	0.47
1:B:2333:VAL:HG21	1:B:2382:PRO:HB3	1.97	0.47
1:F:1191:LEU:HD21	1:F:1209:LEU:HD21	1.97	0.46
1:F:1989:ILE:HD12	4:F:2605:PEE:C26	2.44	0.46
1:A:1981:PHE:CE1	4:A:2605:PEE:H7	2.50	0.46
1:A:2182:LYS:HZ3	1:B:2145:THR:N	2.04	0.46
1:A:971:ASP:OD1	1:A:1154:LYS:NZ	2.48	0.46
1:B:1351[A]:ARG:HA	1:B:1351[A]:ARG:HD3	1.77	0.46
1:F:971:ASP:OD1	1:F:1154:LYS:NZ	2.48	0.46
1:B:2063:PHE:H	1:B:2066:PRO:HD2	1.79	0.46
1:B:1140:ILE:HA	1:B:1143:PHE:CD2	2.49	0.46
1:F:2537:GLU:OE1	1:A:1412:TYR:OH	2.29	0.46
1:A:1665:PHE:HD1	1:A:1669:GLN:HE21	1.63	0.46
1:A:2318:ARG:NH2	1:B:2244:GLN:HE22	2.12	0.46
1:B:1175:THR:HG21	1:B:1282:TRP:CD1	2.50	0.46
1:B:1328:LEU:HA	1:B:1331:ILE:HG22	1.97	0.46
1:F:1981:PHE:CD1	4:F:2605:PEE:H7	2.51	0.46
1:F:1246:ILE:HG23	1:F:1251:LEU:HB2	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1525:LYS:O	1:A:1529:THR:HG23	2.15	0.46
1:A:1651:ASP:OD1	1:A:1651:ASP:N	2.49	0.46
1:A:2333:VAL:HG21	1:A:2382:PRO:HB3	1.97	0.46
1:F:2144:ASP:HA	1:B:2182:LYS:HZ3	1.80	0.46
1:A:1246:ILE:HG23	1:A:1251:LEU:HB2	1.98	0.46
1:A:2125:PHE:O	1:A:2128:VAL:HG12	2.16	0.46
1:F:995:PHE:CE2	1:F:1021:LEU:HD13	2.50	0.46
1:B:1795:PHE:CZ	2:B:2602:PLX:H71	2.51	0.46
3:F:2603:P5S:H52A	3:F:2603:P5S:H28A	1.98	0.45
1:A:2361:ARG:HD3	1:A:2362:PRO:CD	2.44	0.45
1:B:982:ILE:CG2	3:B:2603:P5S:H27	2.45	0.45
1:B:1981:PHE:CD1	4:B:2605:PEE:H7	2.51	0.45
1:B:2104:ARG:HA	1:B:2515:GLU:OE2	2.17	0.45
1:B:2519:LEU:HD23	1:B:2519:LEU:HA	1.80	0.45
1:F:2086:LYS:HG3	1:F:2090:PHE:CE2	2.52	0.45
1:F:2245:GLN:HG2	1:F:2246:PRO:HD3	1.97	0.45
1:A:2086:LYS:HG3	1:A:2090:PHE:CE2	2.52	0.45
1:B:1191:LEU:HD21	1:B:1209:LEU:HD21	1.97	0.45
1:A:1153:LEU:HD13	3:A:2604:P5S:H48A	1.98	0.45
1:B:995:PHE:CE2	1:B:1021:LEU:HD13	2.50	0.45
1:F:1328:LEU:HA	1:F:1331:ILE:HG22	1.97	0.45
1:F:2182:LYS:HZ3	1:A:2144:ASP:HA	1.81	0.45
1:F:2316:THR:OG1	1:F:2318:ARG:NH2	2.50	0.45
1:A:1328:LEU:HA	1:A:1331:ILE:HG22	1.97	0.45
1:B:1684:ALA:HB1	1:B:1799:GLN:NE2	2.32	0.45
1:B:2316:THR:OG1	1:B:2318:ARG:NH2	2.50	0.45
3:B:2603:P5S:H39	3:B:2603:P5S:H2	1.63	0.45
1:F:2210:MET:HE3	1:A:2014:ASP:HB3	1.99	0.45
1:B:1246:ILE:HG23	1:B:1251:LEU:HB2	1.98	0.45
1:B:1334:HIS:O	1:B:1337:ILE:HG22	2.17	0.45
1:F:2006:ASP:OD1	1:F:2007:ILE:N	2.49	0.45
3:A:2603:P5S:H52A	3:A:2603:P5S:H28A	1.98	0.45
1:F:1684:ALA:HB1	1:F:1799:GLN:NE2	2.32	0.45
1:F:2125:PHE:O	1:F:2128:VAL:HG12	2.16	0.45
1:B:2086:LYS:HG3	1:B:2090:PHE:CE2	2.52	0.45
1:B:2307:GLU:O	1:B:2351:ARG:NH2	2.50	0.45
1:B:1153:LEU:HD13	3:B:2604:P5S:C45	2.47	0.45
1:B:1651:ASP:OD1	1:B:1651:ASP:N	2.49	0.45
1:F:982:ILE:CG2	3:F:2603:P5S:H27	2.47	0.45
1:F:2307:GLU:O	1:F:2351:ARG:NH2	2.50	0.45
1:A:2104:ARG:HA	1:A:2515:GLU:OE2	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1717:TRP:CZ2	2:B:2601:PLX:C8	2.81	0.44
1:B:2125:PHE:O	1:B:2128:VAL:HG12	2.16	0.44
1:F:1651:ASP:OD1	1:F:1651:ASP:N	2.49	0.44
1:F:1717:TRP:CZ2	2:F:2601:PLX:C8	2.81	0.44
1:F:1981:PHE:CE1	4:F:2605:PEE:H7	2.52	0.44
1:B:1981:PHE:CE1	4:B:2605:PEE:H7	2.52	0.44
1:A:1684:ALA:HB1	1:A:1799:GLN:NE2	2.32	0.44
1:A:2006:ASP:OD1	1:A:2007:ILE:N	2.49	0.44
1:A:2113:LYS:O	1:A:2118:ASN:ND2	2.51	0.44
1:A:2268:LEU:HD23	1:B:2003:ALA:HB1	2.00	0.44
1:A:2316:THR:OG1	1:A:2318:ARG:NH2	2.50	0.44
1:F:1334:HIS:O	1:F:1337:ILE:HG22	2.17	0.44
1:F:1795:PHE:CZ	2:F:2602:PLX:H71	2.53	0.44
1:F:1153:LEU:HD13	3:F:2604:P5S:H45A	1.99	0.44
1:F:1988:ILE:CD1	4:F:2605:PEE:C38	2.72	0.44
1:A:1334:HIS:O	1:A:1337:ILE:HG22	2.17	0.44
3:B:2603:P5S:H52A	3:B:2603:P5S:H28A	1.98	0.44
1:F:1153:LEU:HD13	3:F:2604:P5S:C45	2.48	0.44
1:F:1412:TYR:OH	1:B:2537:GLU:OE1	2.30	0.44
1:F:2104:ARG:HA	1:F:2515:GLU:OE2	2.17	0.44
1:A:1717:TRP:CE2	2:A:2601:PLX:C24	2.97	0.44
1:A:2307:GLU:O	1:A:2351:ARG:NH2	2.50	0.44
1:B:1524:THR:HG21	1:B:1682:CYS:HA	1.99	0.44
1:A:1153:LEU:HD13	3:A:2604:P5S:H45A	2.00	0.44
1:A:1340:LYS:HB2	1:A:1340:LYS:HE2	1.82	0.44
1:B:2113:LYS:O	1:B:2118:ASN:ND2	2.51	0.44
1:F:1717:TRP:NE1	2:F:2601:PLX:C25	2.78	0.44
1:F:2113:LYS:O	1:F:2118:ASN:ND2	2.51	0.44
1:F:1047:GLN:OE1	1:F:1047:GLN:HA	2.17	0.43
1:F:1524:THR:HG21	1:F:1682:CYS:HA	1.99	0.43
1:F:2003:ALA:HB1	1:B:2268:LEU:HD23	2.00	0.43
1:A:1047:GLN:OE1	1:A:1047:GLN:HA	2.17	0.43
1:B:2006:ASP:OD1	1:B:2007:ILE:N	2.49	0.43
1:F:2182:LYS:O	1:F:2183:LYS:HB2	2.18	0.43
1:A:2184:LYS:HE3	1:A:2184:LYS:HA	2.00	0.43
1:B:1009:MET:HB3	1:B:1043:PHE:CZ	2.47	0.43
1:A:2182:LYS:HZ3	1:B:2144:ASP:HA	1.82	0.43
1:B:1047:GLN:OE1	1:B:1047:GLN:HA	2.17	0.43
1:A:982:ILE:CG2	3:A:2603:P5S:H27	2.48	0.43
1:A:1524:THR:HG21	1:A:1682:CYS:HA	1.99	0.43
1:A:2182:LYS:O	1:A:2183:LYS:HB2	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1153:LEU:HD13	3:B:2604:P5S:H45A	1.99	0.43
1:B:1523:PHE:HE2	1:B:1686:HIS:CE1	2.37	0.43
1:B:2146:THR:CG2	1:B:2519:LEU:HD13	2.48	0.43
1:F:2063:PHE:HB3	1:F:2064:ILE:H	1.64	0.43
1:F:2184:LYS:HE3	1:F:2184:LYS:HA	2.00	0.43
1:A:983:ASN:C	1:A:984:PHE:HD1	2.22	0.43
1:A:1981:PHE:CE1	4:A:2605:PEE:H50	2.50	0.43
1:A:2146:THR:CG2	1:A:2519:LEU:HD13	2.48	0.43
1:B:2229:THR:OG1	1:B:2320:THR:OG1	2.27	0.43
1:B:1136:GLU:N	1:B:1137:PRO:HD2	2.34	0.43
1:A:1524:THR:O	1:A:1528:ARG:HG3	2.18	0.43
1:B:2202:ILE:HD13	1:B:2202:ILE:HA	1.84	0.43
1:A:1136:GLU:N	1:A:1137:PRO:HD2	2.34	0.43
1:A:2253:PRO:O	1:A:2257:GLU:HG2	2.19	0.43
1:F:983:ASN:C	1:F:984:PHE:HD1	2.22	0.43
1:F:1524:THR:O	1:F:1528:ARG:HG3	2.18	0.43
1:F:2146:THR:CG2	1:F:2519:LEU:HD13	2.48	0.43
1:F:2202:ILE:HD13	1:F:2202:ILE:HA	1.83	0.43
1:F:2268:LEU:HD23	1:A:2003:ALA:HB1	2.00	0.43
1:B:1545:LEU:HD12	1:B:1545:LEU:HA	1.89	0.43
1:B:2182:LYS:O	1:B:2183:LYS:HB2	2.18	0.43
1:B:2536:PRO:O	1:B:2540:ILE:HG13	2.19	0.43
1:F:1523:PHE:HE2	1:F:1686:HIS:CE1	2.37	0.43
1:A:1774:LEU:HD12	1:A:1774:LEU:HA	1.86	0.43
1:A:1795:PHE:CZ	2:A:2602:PLX:H71	2.54	0.43
1:B:2184:LYS:HE3	1:B:2184:LYS:HA	2.00	0.43
1:F:1136:GLU:N	1:F:1137:PRO:HD2	2.34	0.42
1:A:2072:MET:SD	1:A:2072:MET:N	2.91	0.42
1:B:1804:GLY:O	1:B:1805:LEU:HG	2.19	0.42
1:F:1006:MET:SD	1:F:1225:ASN:HA	2.59	0.42
1:B:1006:MET:SD	1:B:1225:ASN:HA	2.59	0.42
1:B:2182:LYS:HD2	1:B:2182:LYS:C	2.40	0.42
1:F:1733:ALA:O	1:F:1737:THR:HG22	2.20	0.42
1:F:1981:PHE:CE1	4:F:2605:PEE:H50	2.50	0.42
1:F:2182:LYS:C	1:F:2182:LYS:HD2	2.40	0.42
1:F:2297:SER:OG	1:F:2299:PRO:HD2	2.20	0.42
1:F:2536:PRO:O	1:F:2540:ILE:HG13	2.19	0.42
1:A:800:PHE:HB2	3:A:2603:P5S:H31	2.01	0.42
1:B:983:ASN:C	1:B:984:PHE:HD1	2.22	0.42
1:F:1170:PHE:HB2	1:F:1188:CYS:SG	2.60	0.42
3:F:2603:P5S:H39	3:F:2603:P5S:H2	1.62	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1523:PHE:HE2	1:A:1686:HIS:CE1	2.37	0.42
1:A:1735:VAL:O	1:A:1738:GLU:HB3	2.20	0.42
1:A:1804:GLY:O	1:A:1805:LEU:HG	2.19	0.42
1:A:2536:PRO:O	1:A:2540:ILE:HG13	2.19	0.42
1:B:1170:PHE:HB2	1:B:1188:CYS:SG	2.60	0.42
1:F:1159:ARG:NH2	2:F:2602:PLX:H21	2.33	0.42
1:B:1524:THR:O	1:B:1528:ARG:HG3	2.18	0.42
1:B:1680:TYR:HA	1:B:1683:VAL:HG22	2.02	0.42
1:B:1710:LEU:O	1:B:1714:VAL:HG23	2.20	0.42
1:B:1733:ALA:O	1:B:1737:THR:HG22	2.20	0.42
1:F:1710:LEU:O	1:F:1714:VAL:HG23	2.20	0.42
1:F:2072:MET:SD	1:F:2072:MET:N	2.91	0.42
1:A:1680:TYR:HA	1:A:1683:VAL:HG22	2.02	0.42
1:A:2251:PHE:CE1	1:A:2447:VAL:HG13	2.55	0.42
1:B:2251:PHE:CE1	1:B:2447:VAL:HG13	2.55	0.42
1:F:1735:VAL:O	1:F:1738:GLU:HB3	2.20	0.42
1:A:1009:MET:HB3	1:A:1043:PHE:CZ	2.47	0.42
1:A:1006:MET:SD	1:A:1225:ASN:HA	2.59	0.42
1:A:2498:PRO:HD2	1:A:2543:THR:HB	2.02	0.42
1:B:2253:PRO:O	1:B:2257:GLU:HG2	2.19	0.42
1:F:1351[A]:ARG:HD3	1:F:1351[A]:ARG:HA	1.77	0.42
1:F:2251:PHE:CE1	1:F:2447:VAL:HG13	2.55	0.42
1:A:1714:VAL:HG22	1:A:1729:PHE:CZ	2.55	0.42
1:A:2537:GLU:OE1	1:B:1412:TYR:OH	2.30	0.42
1:A:2540:ILE:O	1:A:2544:ARG:HG3	2.20	0.42
1:B:1551:VAL:O	1:B:1555:VAL:HG22	2.20	0.42
1:B:1735:VAL:O	1:B:1738:GLU:HB3	2.19	0.42
1:B:2266:TYR:O	1:B:2270:MET:HG2	2.19	0.42
1:B:2297:SER:OG	1:B:2299:PRO:HD2	2.20	0.42
1:F:2253:PRO:O	1:F:2257:GLU:HG2	2.19	0.42
1:F:2519:LEU:HA	1:F:2519:LEU:HD23	1.80	0.42
1:A:981:PHE:CE2	3:A:2604:P5S:H41	2.55	0.42
1:A:1045:LEU:HD12	1:A:1045:LEU:HA	1.83	0.42
1:A:1710:LEU:O	1:A:1714:VAL:HG23	2.20	0.42
1:A:1733:ALA:O	1:A:1737:THR:HG22	2.20	0.42
1:F:800:PHE:HB2	3:F:2603:P5S:H31	2.02	0.41
1:F:1680:TYR:HA	1:F:1683:VAL:HG22	2.02	0.41
1:F:1714:VAL:HG22	1:F:1729:PHE:CZ	2.55	0.41
1:F:1804:GLY:O	1:F:1805:LEU:HG	2.19	0.41
1:A:2182:LYS:C	1:A:2182:LYS:HD2	2.40	0.41
1:B:1981:PHE:CE1	4:B:2605:PEE:H50	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2540:ILE:O	1:B:2544:ARG:HG3	2.20	0.41
1:F:1009:MET:HB3	1:F:1043:PHE:CZ	2.47	0.41
1:A:1170:PHE:HB2	1:A:1188:CYS:SG	2.60	0.41
1:A:1551:VAL:O	1:A:1555:VAL:HG22	2.20	0.41
1:F:2113:LYS:HE2	1:F:2113:LYS:HB3	1.89	0.41
1:F:2329:LYS:NZ	1:F:2329:LYS:HB2	2.36	0.41
1:F:2498:PRO:HD2	1:F:2543:THR:HB	2.01	0.41
1:A:1985:ILE:O	1:A:1989:ILE:HG12	2.21	0.41
1:A:2266:TYR:O	1:A:2270:MET:HG2	2.19	0.41
1:B:2498:PRO:HD2	1:B:2543:THR:HB	2.01	0.41
1:F:1551:VAL:O	1:F:1555:VAL:HG22	2.20	0.41
1:A:1153:LEU:HD13	3:A:2604:P5S:C45	2.50	0.41
1:A:1545:LEU:HD12	1:A:1545:LEU:HA	1.89	0.41
1:A:2063:PHE:HB3	1:A:2064:ILE:H	1.64	0.41
1:A:2297:SER:OG	1:A:2299:PRO:HD2	2.20	0.41
1:B:1717:TRP:CE2	2:B:2601:PLX:C24	3.00	0.41
1:F:2266:TYR:O	1:F:2270:MET:HG2	2.19	0.41
1:A:1159:ARG:NH2	2:A:2602:PLX:H21	2.34	0.41
1:A:1521:ARG:HE	1:A:1528:ARG:CZ	2.34	0.41
1:B:1045:LEU:HD12	1:B:1045:LEU:HA	1.83	0.41
1:F:1011:ILE:HD13	1:F:1011:ILE:HA	1.80	0.41
1:F:2540:ILE:O	1:F:2544:ARG:HG3	2.20	0.41
1:B:1710:LEU:HB3	1:B:1711:PRO:HD3	2.03	0.41
1:F:2512:LEU:O	1:F:2515:GLU:HG2	2.20	0.41
1:A:2512:LEU:O	1:A:2515:GLU:HG2	2.20	0.41
1:B:1714:VAL:HG22	1:B:1729:PHE:CZ	2.55	0.41
1:B:1774:LEU:HD12	1:B:1774:LEU:HA	1.86	0.41
1:F:1985:ILE:O	1:F:1989:ILE:HG12	2.20	0.41
1:B:800:PHE:HB2	3:B:2603:P5S:H31	2.02	0.41
1:F:1712:VAL:O	1:F:1716:LEU:HG	2.21	0.41
1:F:1799:GLN:HA	1:F:1802:CYS:SG	2.61	0.41
1:A:1799:GLN:HA	1:A:1802:CYS:SG	2.61	0.41
1:A:2113:LYS:HG3	1:A:2118:ASN:ND2	2.36	0.41
2:A:2601:PLX:O1	2:A:2601:PLX:H1A2	2.21	0.41
1:B:1159:ARG:NH2	2:B:2602:PLX:H21	2.34	0.41
1:B:1296:ILE:HD13	1:B:1296:ILE:HA	1.92	0.41
1:B:1521:ARG:HE	1:B:1528:ARG:CZ	2.34	0.41
1:B:2514:ARG:HG3	1:B:2522:GLU:OE2	2.21	0.41
1:F:1710:LEU:HB3	1:F:1711:PRO:HD3	2.03	0.41
1:A:1712:VAL:O	1:A:1716:LEU:HG	2.21	0.41
1:A:2493:MET:H	1:A:2493:MET:HG3	1.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:971:ASP:OD1	1:B:1154:LYS:NZ	2.48	0.41
1:B:1985:ILE:O	1:B:1989:ILE:HG12	2.20	0.41
1:B:2113:LYS:HG3	1:B:2118:ASN:ND2	2.36	0.41
1:B:2512:LEU:O	1:B:2515:GLU:HG2	2.20	0.41
1:F:2320:THR:HA	1:F:2339:LYS:HA	2.04	0.40
1:A:1296:ILE:HD13	1:A:1296:ILE:HA	1.93	0.40
1:B:2329:LYS:NZ	1:B:2329:LYS:HB2	2.36	0.40
1:F:1521:ARG:HE	1:F:1528:ARG:CZ	2.34	0.40
1:F:2493:MET:H	1:F:2493:MET:HG3	1.56	0.40
1:A:1010:VAL:H	1:A:1010:VAL:HG23	1.69	0.40
1:B:1712:VAL:O	1:B:1716:LEU:HG	2.21	0.40
1:B:1717:TRP:CZ2	2:B:2601:PLX:C10	2.92	0.40
1:F:1774:LEU:HD12	1:F:1774:LEU:HA	1.86	0.40
1:F:2514:ARG:HG3	1:F:2522:GLU:OE2	2.21	0.40
1:A:1011:ILE:HA	1:A:1011:ILE:HD13	1.80	0.40
1:A:2214:ARG:HA	1:A:2214:ARG:HD2	1.86	0.40
1:A:2530:ILE:HD13	1:A:2530:ILE:HA	1.96	0.40
1:F:1981:PHE:O	1:F:1985:ILE:HG12	2.22	0.40
1:F:2437:CYS:SG	1:F:2441:CYS:N	2.94	0.40
1:A:2320:THR:HA	1:A:2339:LYS:HA	2.04	0.40
1:B:1189:PHE:HZ	1:B:1741:VAL:HG11	1.87	0.40
1:B:2114:TYR:HB2	1:B:2170:GLU:OE1	2.22	0.40
1:B:2308:LEU:HD23	1:B:2308:LEU:HA	1.90	0.40
2:F:2601:PLX:O1	2:F:2601:PLX:H1A2	2.21	0.40
1:A:1710:LEU:HB3	1:A:1711:PRO:HD3	2.03	0.40
1:A:2354:LEU:HD11	1:A:2403:ILE:HD11	2.04	0.40
1:B:1717:TRP:NE1	2:B:2601:PLX:C25	2.79	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	1368/2547 (54%)	1274 (93%)	93 (7%)	1 (0%)	48	81
1	B	1368/2547 (54%)	1276 (93%)	91 (7%)	1 (0%)	48	81
1	F	1368/2547 (54%)	1276 (93%)	91 (7%)	1 (0%)	48	81
All	All	4104/7641 (54%)	3826 (93%)	275 (7%)	3 (0%)	50	81

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	F	2072	MET
1	A	2072	MET
1	B	2072	MET

5.3.2 Protein sidechains ⓘ

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	975/2246 (43%)	972 (100%)	3 (0%)	91	92
1	B	975/2246 (43%)	972 (100%)	3 (0%)	91	92
1	F	975/2246 (43%)	972 (100%)	3 (0%)	91	92
All	All	2925/6738 (43%)	2916 (100%)	9 (0%)	90	92

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	F	1054	MET
1	F	2073	PHE
1	F	2116	HIS
1	A	1054	MET
1	A	2073	PHE
1	A	2116	HIS
1	B	1054	MET
1	B	2073	PHE
1	B	2116	HIS

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

Mol	Chain	Res	Type
1	F	1304	HIS
1	F	1686	HIS
1	F	2118	ASN
1	A	1304	HIS
1	A	1686	HIS
1	A	2118	ASN
1	B	1304	HIS
1	B	1686	HIS
1	B	2118	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

15 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	B	2601	-	51,51,51	0.61	0	55,59,59	0.69	0
2	PLX	A	2601	-	51,51,51	0.62	0	55,59,59	0.69	0
2	PLX	B	2602	-	51,51,51	0.37	0	55,59,59	0.47	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	P5S	B	2603	-	52,53,53	0.38	0	56,60,60	0.43	0
2	PLX	A	2602	-	51,51,51	0.37	0	55,59,59	0.47	0
4	PEE	B	2605	-	50,50,50	0.32	0	53,55,55	0.51	0
3	P5S	B	2604	-	52,53,53	0.93	2 (3%)	56,60,60	1.08	4 (7%)
4	PEE	A	2605	-	50,50,50	0.32	0	53,55,55	0.51	0
2	PLX	F	2601	-	51,51,51	0.61	0	55,59,59	0.69	0
4	PEE	F	2605	-	50,50,50	0.32	0	53,55,55	0.51	0
3	P5S	F	2604	-	52,53,53	0.93	2 (3%)	56,60,60	1.08	4 (7%)
3	P5S	A	2603	-	52,53,53	0.38	0	56,60,60	0.43	0
3	P5S	A	2604	-	52,53,53	0.93	2 (3%)	56,60,60	1.08	4 (7%)
3	P5S	F	2603	-	52,53,53	0.38	0	56,60,60	0.43	0
2	PLX	F	2602	-	51,51,51	0.37	0	55,59,59	0.47	0

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	B	2601	-	-	5/55/55/55	-
2	PLX	A	2601	-	-	5/55/55/55	-
2	PLX	B	2602	-	-	8/55/55/55	-
3	P5S	B	2603	-	-	15/59/59/59	-
2	PLX	A	2602	-	-	8/55/55/55	-
4	PEE	B	2605	-	-	18/54/54/54	-
3	P5S	B	2604	-	-	20/59/59/59	-
4	PEE	A	2605	-	-	18/54/54/54	-
2	PLX	F	2601	-	-	5/55/55/55	-
4	PEE	F	2605	-	-	18/54/54/54	-
3	P5S	F	2604	-	-	20/59/59/59	-
3	P5S	A	2603	-	-	15/59/59/59	-
3	P5S	A	2604	-	-	20/59/59/59	-
3	P5S	F	2603	-	-	15/59/59/59	-
2	PLX	F	2602	-	-	8/55/55/55	-

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	2604	P5S	O19-C17	4.27	1.45	1.33
3	F	2604	P5S	O19-C17	4.26	1.45	1.33
3	A	2604	P5S	O19-C17	4.25	1.45	1.33
3	A	2604	P5S	O37-C38	4.19	1.46	1.34
3	B	2604	P5S	O37-C38	4.17	1.46	1.34
3	F	2604	P5S	O37-C38	4.16	1.46	1.34

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	2604	P5S	O37-C38-C39	4.19	120.53	111.50
3	F	2604	P5S	O37-C38-C39	4.19	120.52	111.50
3	A	2604	P5S	O37-C38-C39	4.18	120.50	111.50
3	A	2604	P5S	O19-C17-C20	2.75	120.52	111.91
3	F	2604	P5S	O19-C17-C20	2.74	120.50	111.91
3	B	2604	P5S	O19-C17-C20	2.74	120.50	111.91
3	F	2604	P5S	OXT-C-O	-2.16	119.18	124.09
3	B	2604	P5S	OXT-C-O	-2.16	119.19	124.09
3	A	2604	P5S	OXT-C-O	-2.15	119.21	124.09
3	F	2604	P5S	OXT-C-CA	2.04	120.35	113.38
3	B	2604	P5S	OXT-C-CA	2.04	120.33	113.38
3	A	2604	P5S	OXT-C-CA	2.04	120.32	113.38

There are no chirality outliers.

All (198) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	F	2602	PLX	O7-C6-O6-C4
2	F	2602	PLX	C2-O1-P1-O4
2	F	2602	PLX	C2-O1-P1-O2
2	F	2602	PLX	O9-C24-O8-C5
2	A	2602	PLX	O7-C6-O6-C4
2	A	2602	PLX	C2-O1-P1-O4
2	A	2602	PLX	C2-O1-P1-O2
2	A	2602	PLX	O9-C24-O8-C5
2	B	2602	PLX	O7-C6-O6-C4
2	B	2602	PLX	C2-O1-P1-O4
2	B	2602	PLX	C2-O1-P1-O2
2	B	2602	PLX	O9-C24-O8-C5
3	F	2603	P5S	O-C-CA-CB
3	F	2603	P5S	OXT-C-CA-CB
3	F	2603	P5S	C39-C38-O37-C2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	F	2603	P5S	O47-C38-O37-C2
3	F	2604	P5S	CB-OG-P12-O16
3	F	2604	P5S	C3-O16-P12-OG
3	F	2604	P5S	C39-C38-O37-C2
3	F	2604	P5S	O47-C38-O37-C2
3	A	2603	P5S	O-C-CA-CB
3	A	2603	P5S	OXT-C-CA-CB
3	A	2603	P5S	C39-C38-O37-C2
3	A	2603	P5S	O47-C38-O37-C2
3	A	2604	P5S	CB-OG-P12-O16
3	A	2604	P5S	C3-O16-P12-OG
3	A	2604	P5S	C39-C38-O37-C2
3	A	2604	P5S	O47-C38-O37-C2
3	B	2603	P5S	O-C-CA-CB
3	B	2603	P5S	OXT-C-CA-CB
3	B	2603	P5S	C39-C38-O37-C2
3	B	2603	P5S	O47-C38-O37-C2
3	B	2604	P5S	CB-OG-P12-O16
3	B	2604	P5S	C3-O16-P12-OG
3	B	2604	P5S	C39-C38-O37-C2
3	B	2604	P5S	O47-C38-O37-C2
4	F	2605	PEE	C2-C1-O3P-P
4	F	2605	PEE	C1-O3P-P-O4P
4	F	2605	PEE	C4-O4P-P-O3P
4	F	2605	PEE	C4-O4P-P-O1P
4	F	2605	PEE	O4P-C4-C5-N
4	A	2605	PEE	C2-C1-O3P-P
4	A	2605	PEE	C1-O3P-P-O4P
4	A	2605	PEE	C4-O4P-P-O3P
4	A	2605	PEE	C4-O4P-P-O1P
4	A	2605	PEE	O4P-C4-C5-N
4	B	2605	PEE	C2-C1-O3P-P
4	B	2605	PEE	C1-O3P-P-O4P
4	B	2605	PEE	C4-O4P-P-O3P
4	B	2605	PEE	C4-O4P-P-O1P
4	B	2605	PEE	O4P-C4-C5-N
4	F	2605	PEE	O5-C30-O3-C3
4	A	2605	PEE	O5-C30-O3-C3
4	B	2605	PEE	O5-C30-O3-C3
3	F	2603	P5S	C20-C17-O19-C1
3	A	2603	P5S	C20-C17-O19-C1
3	B	2603	P5S	C20-C17-O19-C1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
4	F	2605	PEE	C31-C30-O3-C3
4	A	2605	PEE	C31-C30-O3-C3
4	B	2605	PEE	C31-C30-O3-C3
3	F	2603	P5S	O18-C17-O19-C1
3	A	2603	P5S	O18-C17-O19-C1
3	B	2603	P5S	O18-C17-O19-C1
3	F	2603	P5S	C48-C49-C50-C51
3	A	2603	P5S	C48-C49-C50-C51
3	B	2603	P5S	C48-C49-C50-C51
3	F	2604	P5S	C20-C17-O19-C1
3	A	2604	P5S	C20-C17-O19-C1
3	B	2604	P5S	C20-C17-O19-C1
3	F	2604	P5S	C1-C2-O37-C38
3	A	2604	P5S	C1-C2-O37-C38
3	B	2604	P5S	C1-C2-O37-C38
3	F	2604	P5S	C17-C20-C21-C22
3	A	2604	P5S	C17-C20-C21-C22
3	B	2604	P5S	C17-C20-C21-C22
3	F	2604	P5S	O18-C17-O19-C1
3	A	2604	P5S	O18-C17-O19-C1
3	B	2604	P5S	O18-C17-O19-C1
3	F	2604	P5S	C24-C25-C26-C27
3	A	2604	P5S	C24-C25-C26-C27
3	B	2604	P5S	C24-C25-C26-C27
4	A	2605	PEE	C40-C41-C42-C43
3	F	2604	P5S	C21-C22-C23-C24
3	A	2604	P5S	C21-C22-C23-C24
3	B	2604	P5S	C21-C22-C23-C24
4	F	2605	PEE	C40-C41-C42-C43
4	B	2605	PEE	C40-C41-C42-C43
3	A	2604	P5S	C22-C23-C24-C25
3	B	2604	P5S	C22-C23-C24-C25
3	F	2604	P5S	C22-C23-C24-C25
3	F	2604	P5S	C23-C24-C25-C26
3	A	2604	P5S	C23-C24-C25-C26
3	B	2604	P5S	C23-C24-C25-C26
3	F	2604	P5S	C39-C40-C41-C42
3	A	2604	P5S	C39-C40-C41-C42
3	B	2604	P5S	C39-C40-C41-C42
3	F	2603	P5S	C44-C45-C46-C48
3	B	2603	P5S	C44-C45-C46-C48
3	F	2603	P5S	C26-C27-C28-C29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	A	2603	P5S	C26-C27-C28-C29
3	A	2603	P5S	C44-C45-C46-C48
3	B	2603	P5S	C26-C27-C28-C29
3	F	2604	P5S	O37-C2-C3-O16
3	A	2604	P5S	O37-C2-C3-O16
3	B	2604	P5S	O37-C2-C3-O16
4	F	2605	PEE	C17-C18-C19-C20
4	A	2605	PEE	C17-C18-C19-C20
4	B	2605	PEE	C17-C18-C19-C20
3	F	2604	P5S	O19-C1-C2-O37
3	A	2604	P5S	O19-C1-C2-O37
3	B	2604	P5S	O19-C1-C2-O37
3	F	2604	P5S	C1-C2-C3-O16
3	A	2604	P5S	C1-C2-C3-O16
3	B	2604	P5S	C1-C2-C3-O16
3	F	2603	P5S	C25-C26-C27-C28
3	A	2603	P5S	C25-C26-C27-C28
3	B	2603	P5S	C25-C26-C27-C28
3	F	2604	P5S	C2-C3-O16-P12
3	A	2604	P5S	C2-C3-O16-P12
3	B	2604	P5S	C2-C3-O16-P12
2	F	2602	PLX	C3-O4-P1-O1
2	A	2602	PLX	C3-O4-P1-O1
2	B	2602	PLX	C3-O4-P1-O1
4	A	2605	PEE	C33-C34-C35-C36
4	B	2605	PEE	C33-C34-C35-C36
4	F	2605	PEE	C33-C34-C35-C36
3	F	2604	P5S	CA-CB-OG-P12
3	A	2604	P5S	CA-CB-OG-P12
3	B	2604	P5S	CA-CB-OG-P12
4	F	2605	PEE	C36-C37-C38-C39
4	A	2605	PEE	C36-C37-C38-C39
4	B	2605	PEE	C36-C37-C38-C39
3	F	2603	P5S	C39-C40-C41-C42
3	A	2603	P5S	C39-C40-C41-C42
3	B	2603	P5S	C39-C40-C41-C42
2	F	2602	PLX	C3-O4-P1-O3
2	A	2602	PLX	C3-O4-P1-O3
2	B	2602	PLX	C3-O4-P1-O3
4	F	2605	PEE	C1-O3P-P-O1P
4	A	2605	PEE	C1-O3P-P-O1P
4	B	2605	PEE	C1-O3P-P-O1P

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	F	2604	P5S	O19-C1-C2-C3
3	A	2604	P5S	O19-C1-C2-C3
3	B	2604	P5S	O19-C1-C2-C3
4	F	2605	PEE	C38-C39-C40-C41
4	A	2605	PEE	C38-C39-C40-C41
4	B	2605	PEE	C38-C39-C40-C41
2	F	2601	PLX	C3-O4-P1-O1
2	F	2601	PLX	C2-O1-P1-O4
2	A	2601	PLX	C3-O4-P1-O1
2	A	2601	PLX	C2-O1-P1-O4
2	B	2601	PLX	C3-O4-P1-O1
2	B	2601	PLX	C2-O1-P1-O4
3	F	2603	P5S	C3-O16-P12-OG
3	A	2603	P5S	C3-O16-P12-OG
3	B	2603	P5S	C3-O16-P12-OG
2	F	2602	PLX	C4-C3-O4-P1
2	A	2602	PLX	C4-C3-O4-P1
2	B	2602	PLX	C4-C3-O4-P1
4	F	2605	PEE	C14-C15-C16-C17
4	A	2605	PEE	C14-C15-C16-C17
4	B	2605	PEE	C14-C15-C16-C17
4	F	2605	PEE	C16-C17-C18-C19
4	A	2605	PEE	C16-C17-C18-C19
4	B	2605	PEE	C16-C17-C18-C19
3	F	2604	P5S	C31-C32-C33-C34
3	A	2604	P5S	C31-C32-C33-C34
3	B	2604	P5S	C31-C32-C33-C34
3	F	2603	P5S	C28-C29-C30-C31
3	A	2603	P5S	C28-C29-C30-C31
3	B	2603	P5S	C28-C29-C30-C31
4	F	2605	PEE	C1-C2-O2-C10
4	A	2605	PEE	C1-C2-O2-C10
4	B	2605	PEE	C1-C2-O2-C10
4	F	2605	PEE	O4-C10-O2-C2
4	A	2605	PEE	O4-C10-O2-C2
4	B	2605	PEE	O4-C10-O2-C2
4	B	2605	PEE	C34-C35-C36-C37
3	F	2603	P5S	OXT-C-CA-N
3	A	2603	P5S	OXT-C-CA-N
3	B	2603	P5S	OXT-C-CA-N
4	F	2605	PEE	C34-C35-C36-C37
4	A	2605	PEE	C34-C35-C36-C37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
3	F	2603	P5S	C2-C1-O19-C17
3	A	2603	P5S	C2-C1-O19-C17
3	B	2603	P5S	C2-C1-O19-C17
2	F	2601	PLX	O7-C6-C7-C8
2	A	2601	PLX	O7-C6-C7-C8
2	B	2601	PLX	O7-C6-C7-C8
2	F	2601	PLX	C3-O4-P1-O2
2	A	2601	PLX	C3-O4-P1-O2
2	B	2601	PLX	C3-O4-P1-O2
2	F	2601	PLX	O4-C3-C4-C5
2	A	2601	PLX	O4-C3-C4-C5
2	B	2601	PLX	O4-C3-C4-C5
2	F	2602	PLX	O4-C3-C4-O6
2	A	2602	PLX	O4-C3-C4-O6
2	B	2602	PLX	O4-C3-C4-O6

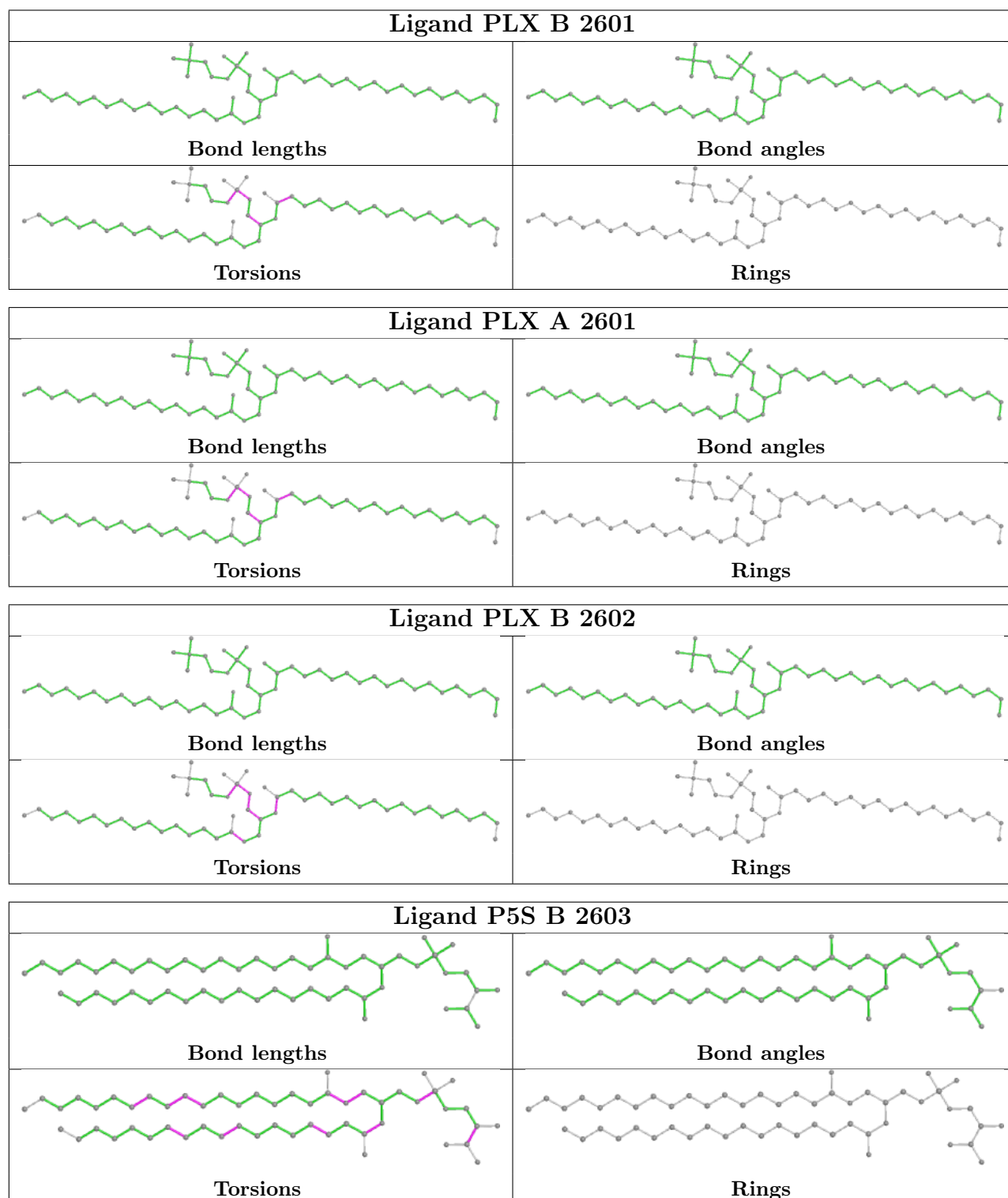
There are no ring outliers.

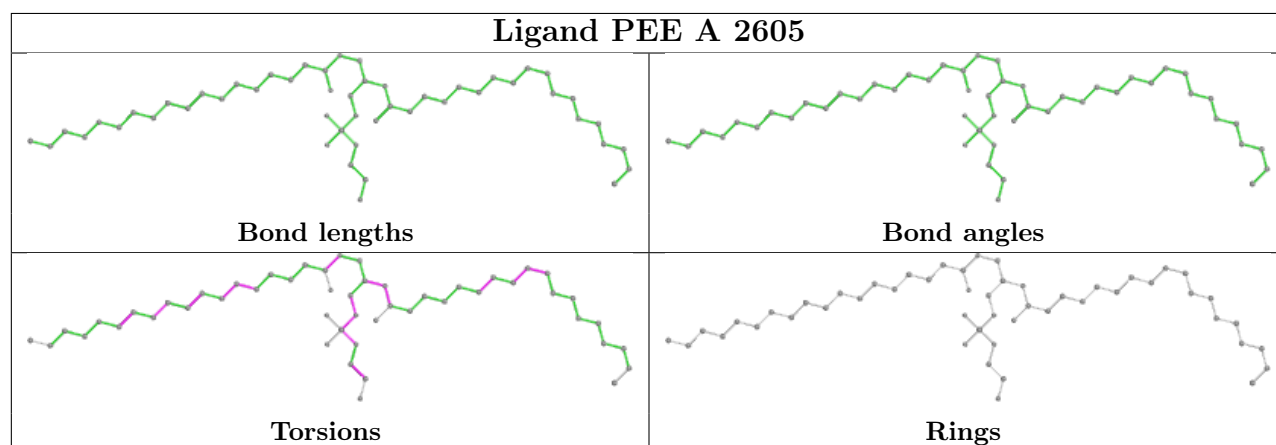
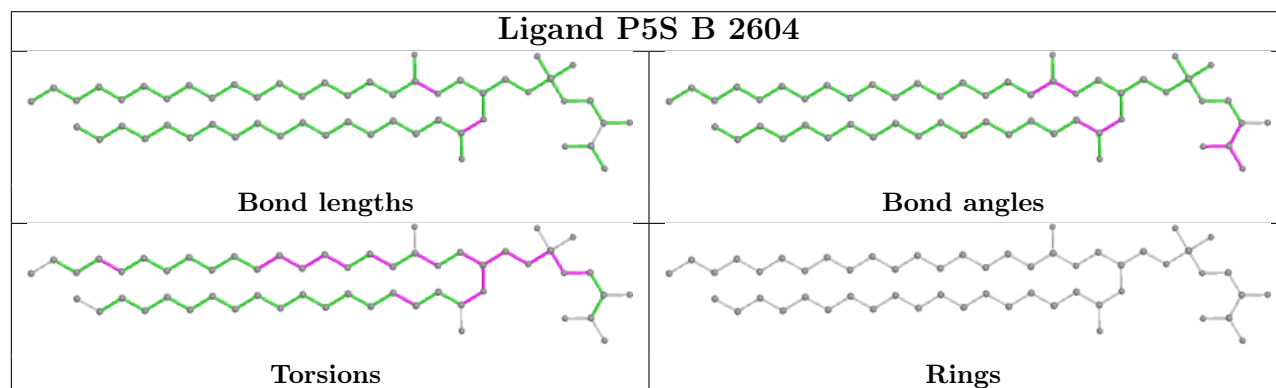
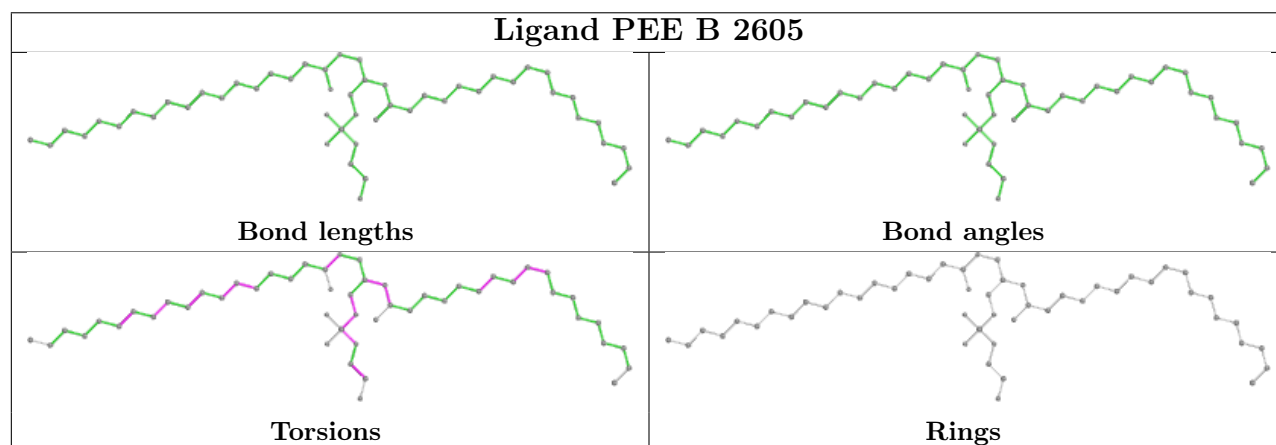
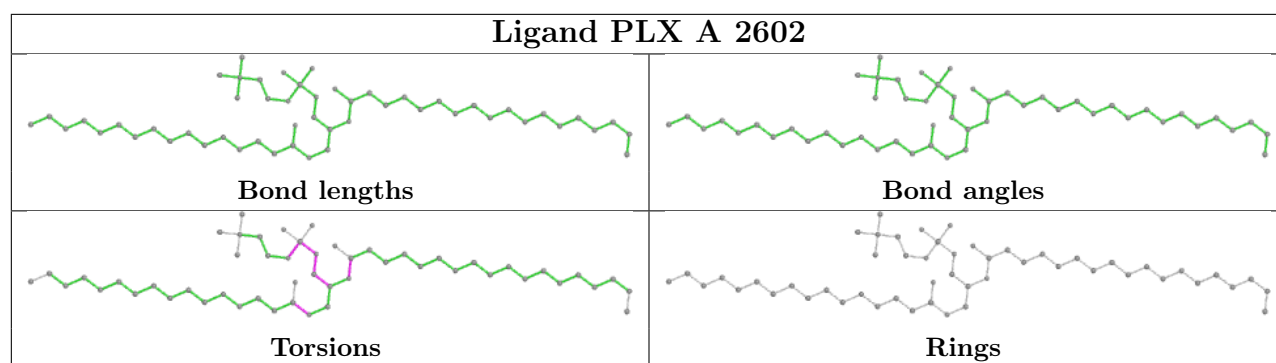
15 monomers are involved in 261 short contacts:

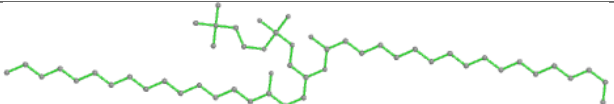
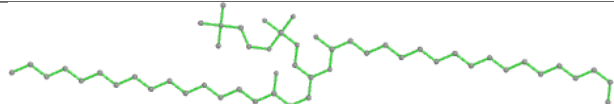
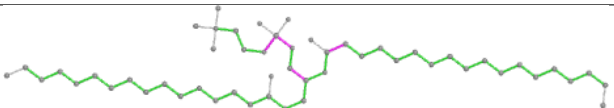
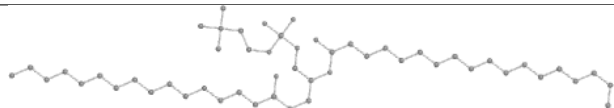
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	2601	PLX	26	0
2	A	2601	PLX	25	0
2	B	2602	PLX	14	0
3	B	2603	P5S	9	0
2	A	2602	PLX	14	0
4	B	2605	PEE	24	0
3	B	2604	P5S	16	0
4	A	2605	PEE	24	0
2	F	2601	PLX	24	0
4	F	2605	PEE	24	0
3	F	2604	P5S	16	0
3	A	2603	P5S	8	0
3	A	2604	P5S	17	0
3	F	2603	P5S	9	0
2	F	2602	PLX	14	0

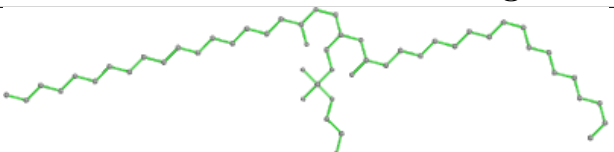
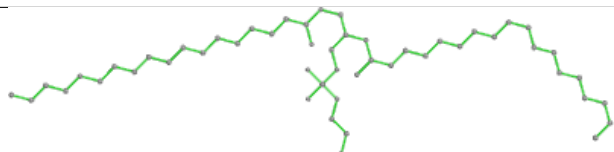
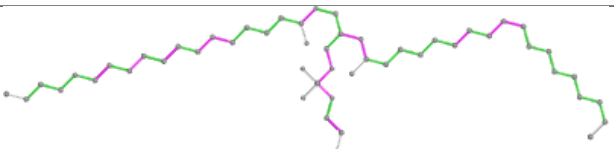
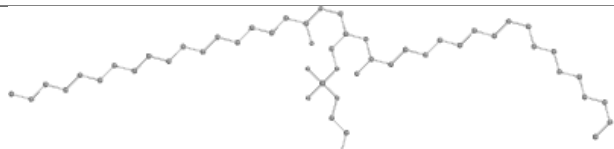
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

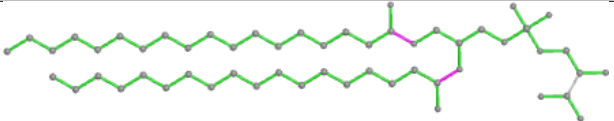
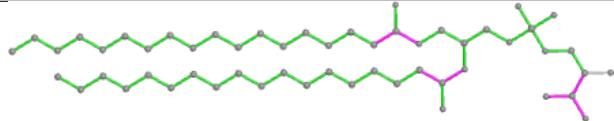
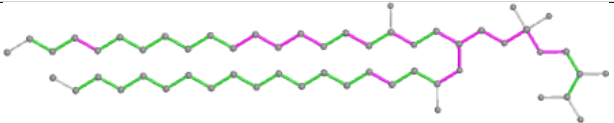

highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified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

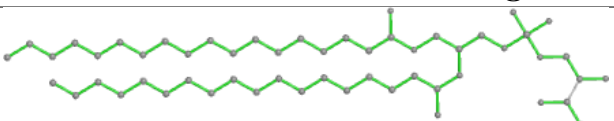
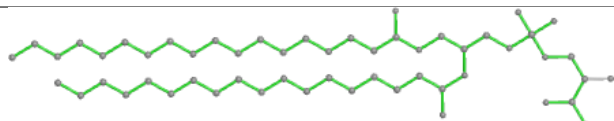
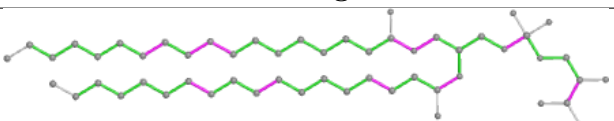
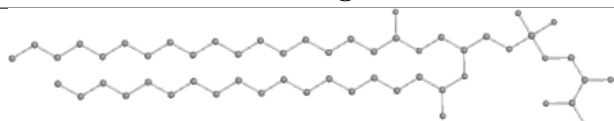


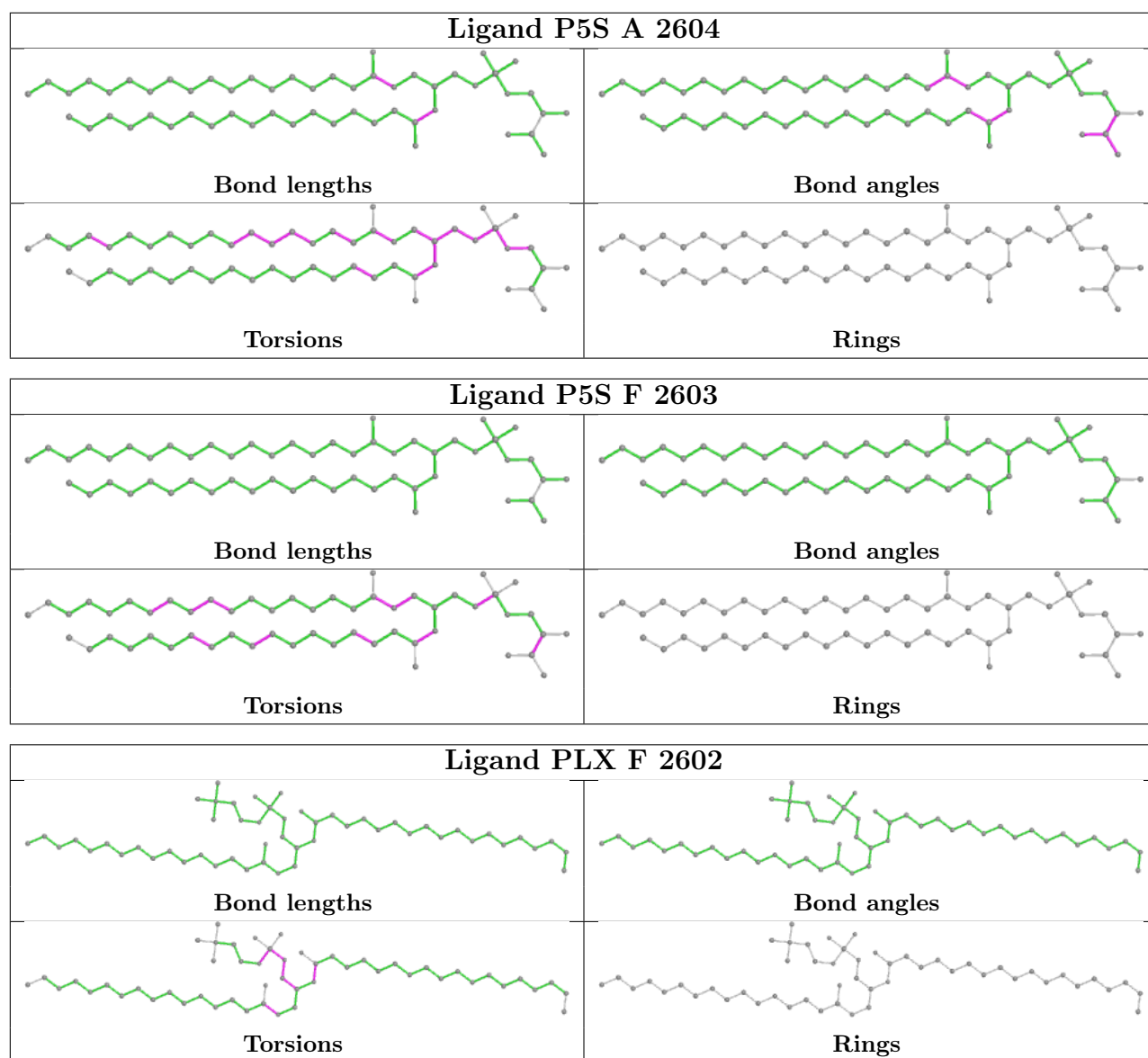


Ligand PLX F 2601	
 <p>Bond lengths</p>	 <p>Bond angles</p>
 <p>Torsions</p>	 <p>Rings</p>

Ligand PEE F 2605	
 <p>Bond lengths</p>	 <p>Bond angles</p>
 <p>Torsions</p>	 <p>Rings</p>

Ligand P5S F 2604	
 <p>Bond lengths</p>	 <p>Bond angles</p>
 <p>Torsions</p>	 <p>Rings</p>

Ligand P5S A 2603	
 <p>Bond lengths</p>	 <p>Bond angles</p>
 <p>Torsions</p>	 <p>Rings</p>



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.

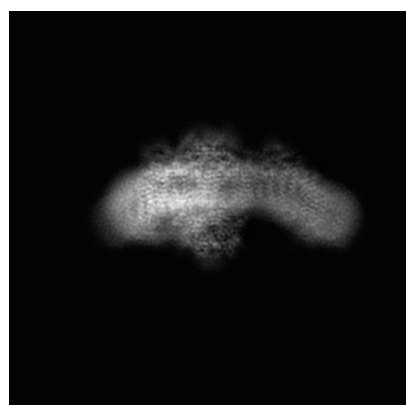
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-35800. These allow visual inspection of the internal detail of the map and identification of artifacts.

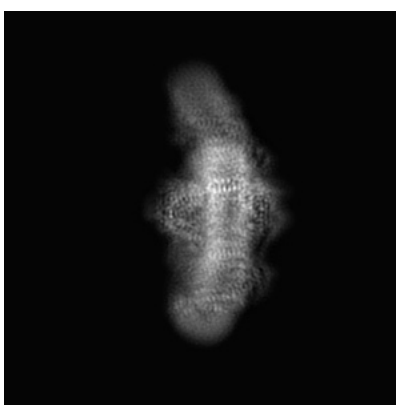
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

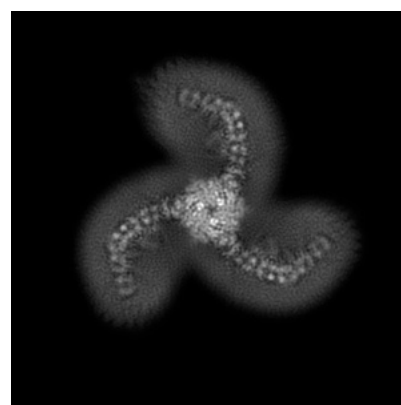
6.1.1 Primary map



X



Y

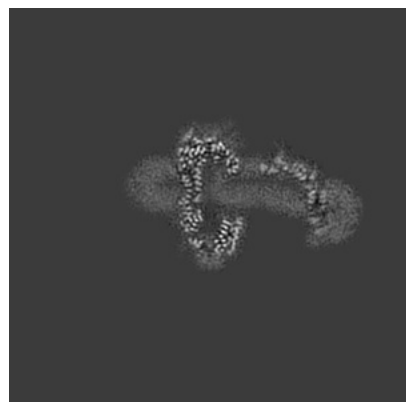


Z

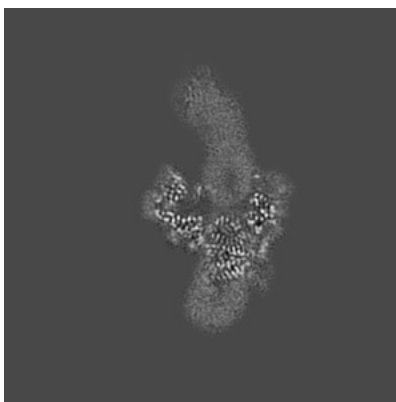
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

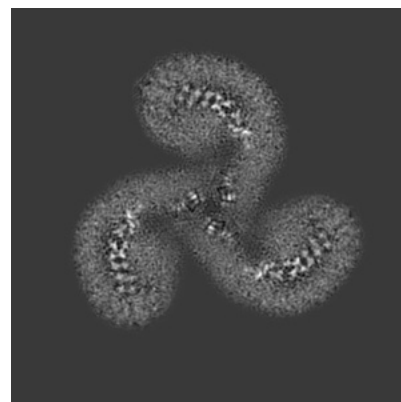
6.2.1 Primary map



X Index: 184



Y Index: 184

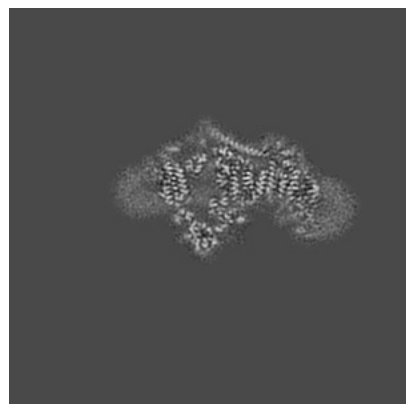


Z Index: 184

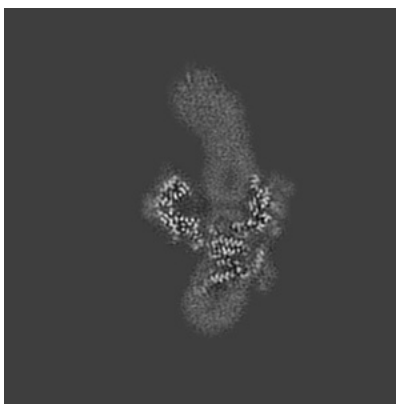
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

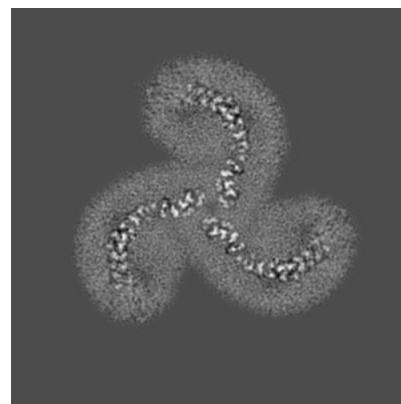
6.3.1 Primary map



X Index: 203



Y Index: 180

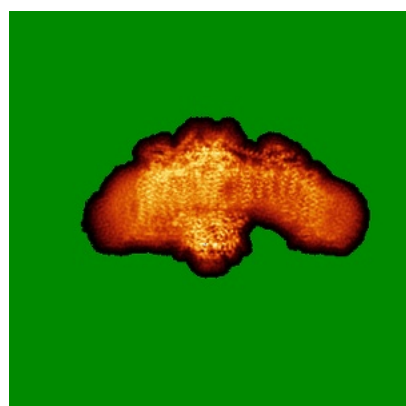


Z Index: 192

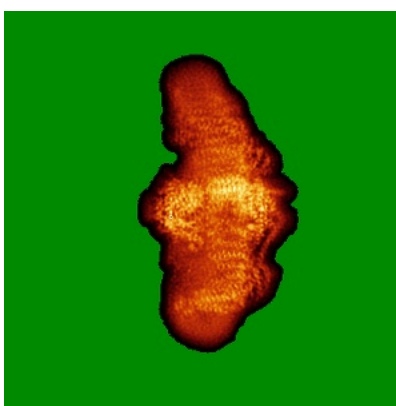
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

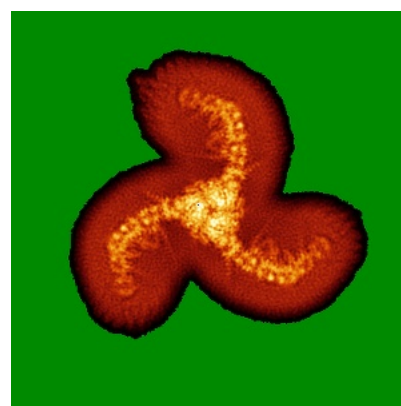
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 11.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

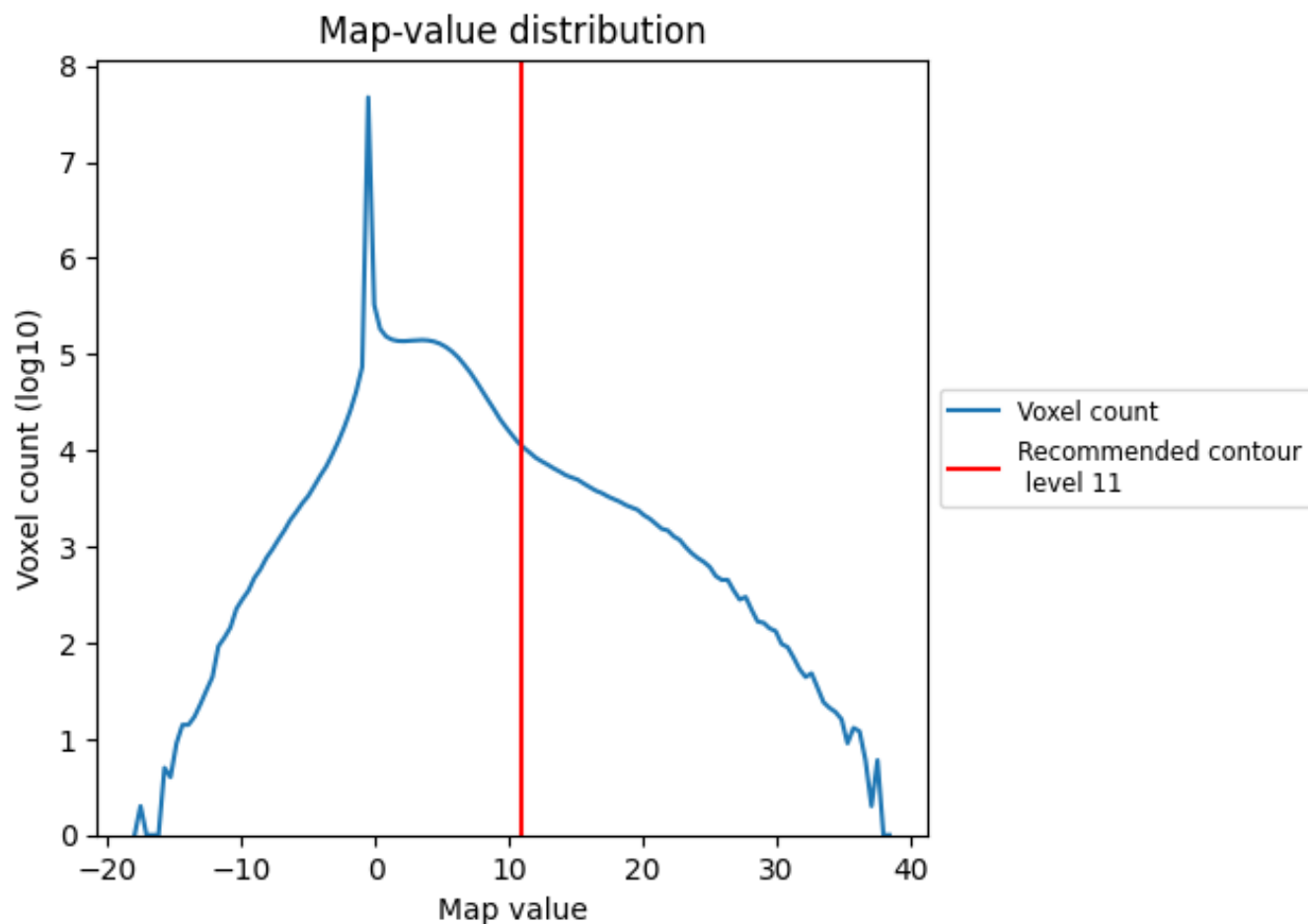
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

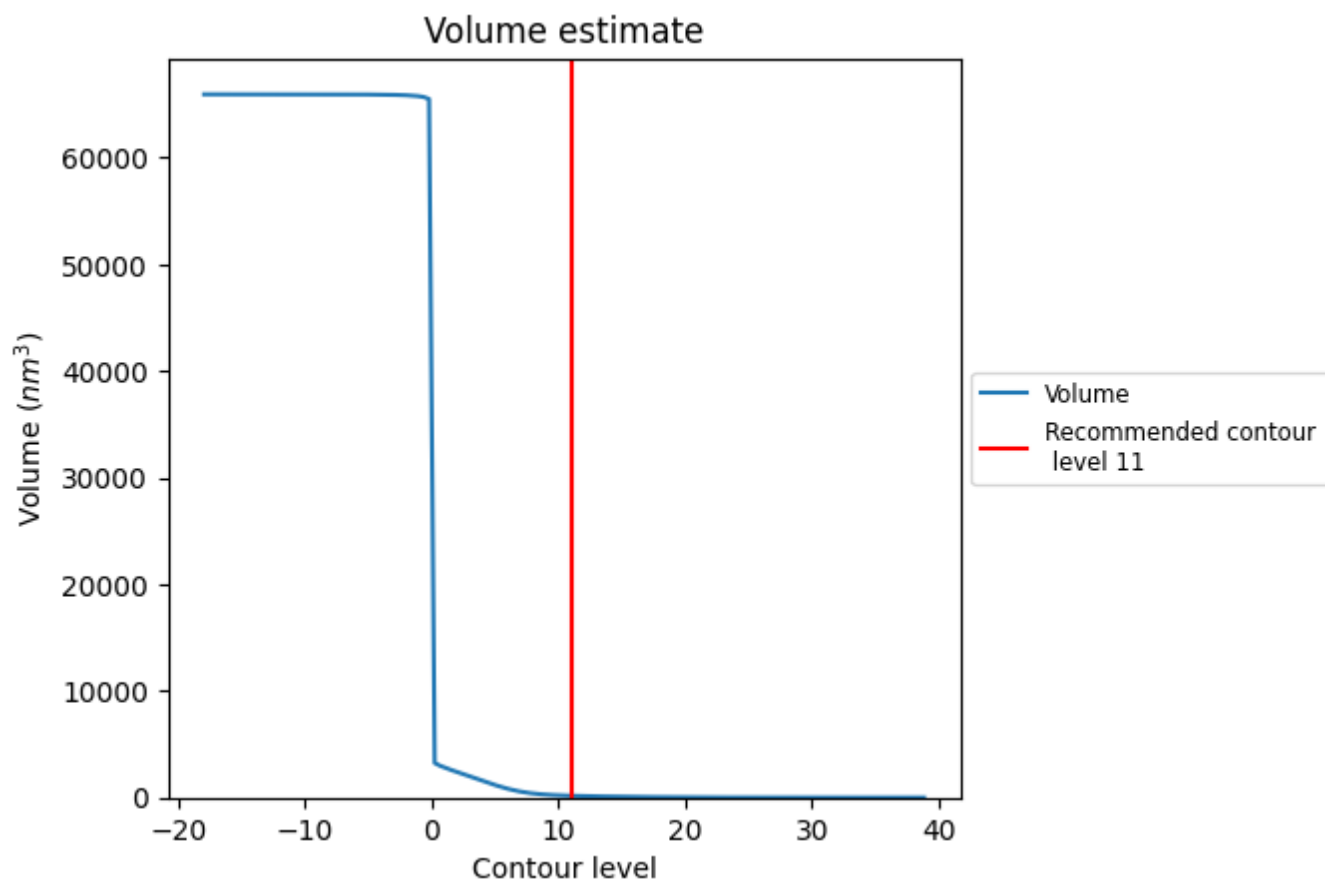
This section contains the results of statistical analysis of the map.

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.

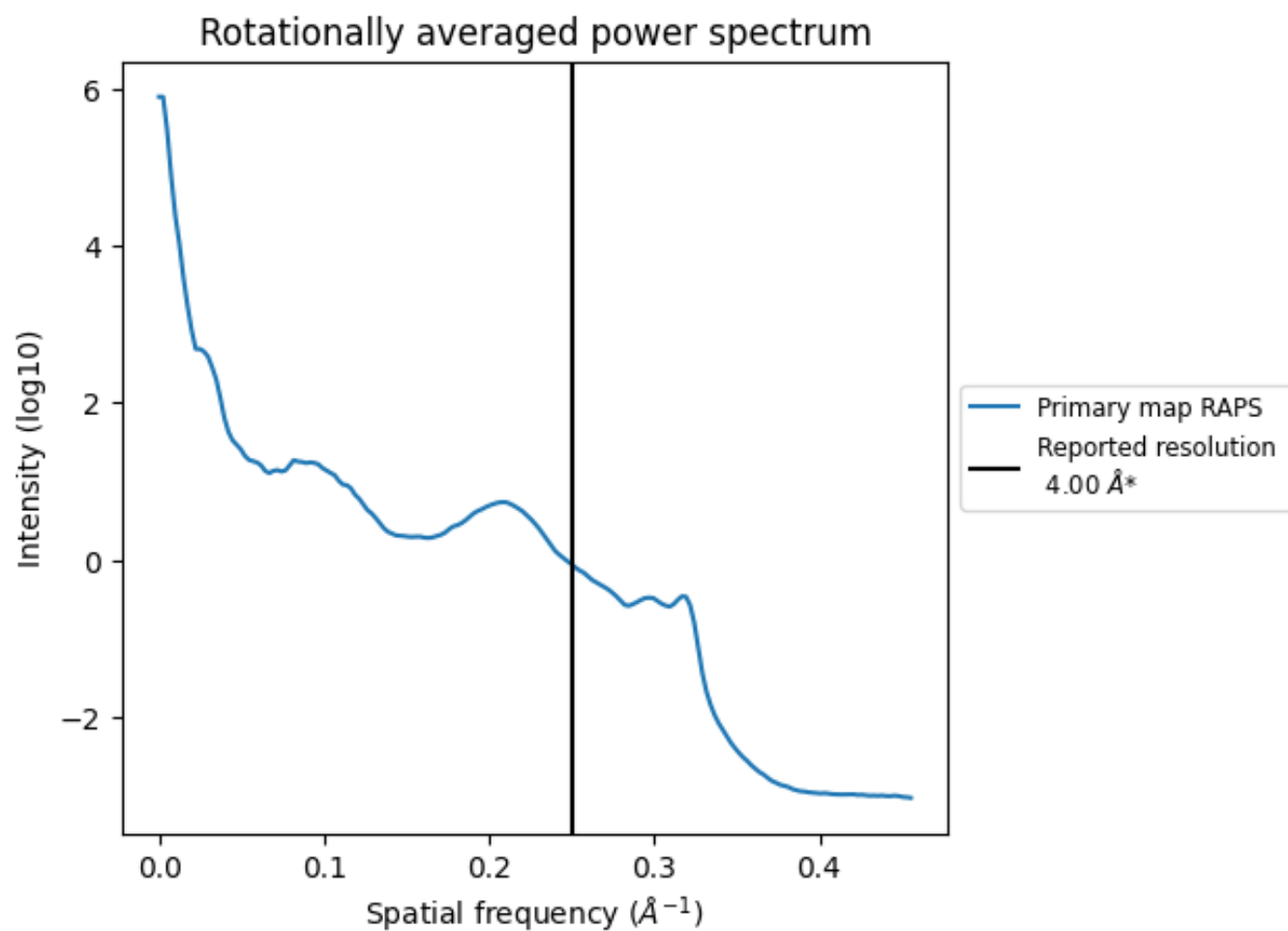
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 167 nm^3 ; this corresponds to an approximate mass of 151 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 0.250 Å⁻¹

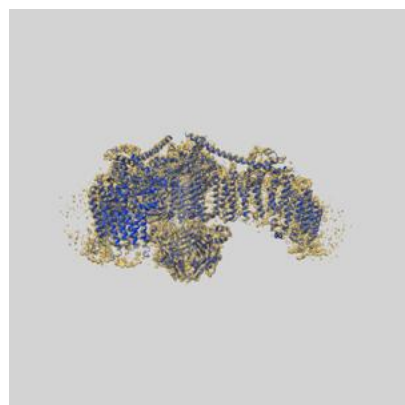
8 Fourier-Shell correlation ⓘ

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

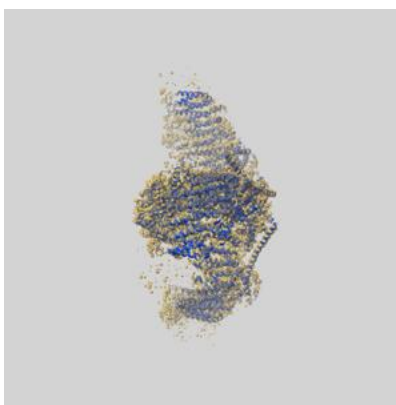
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-35800 and PDB model 8IXO. Per-residue inclusion information can be found in section [3](#) on page [7](#).

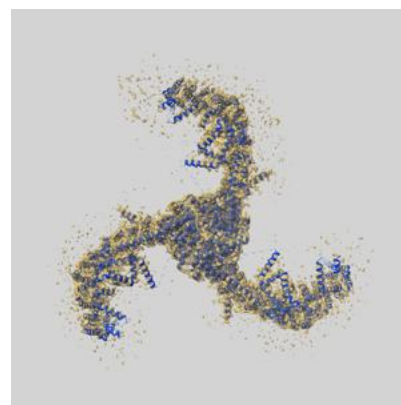
9.1 Map-model overlay [i](#)



X



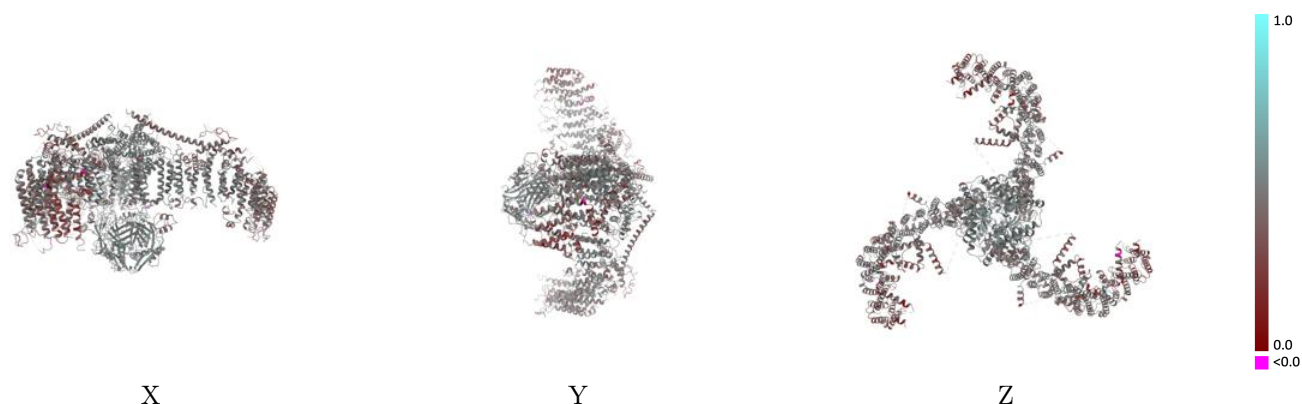
Y



Z

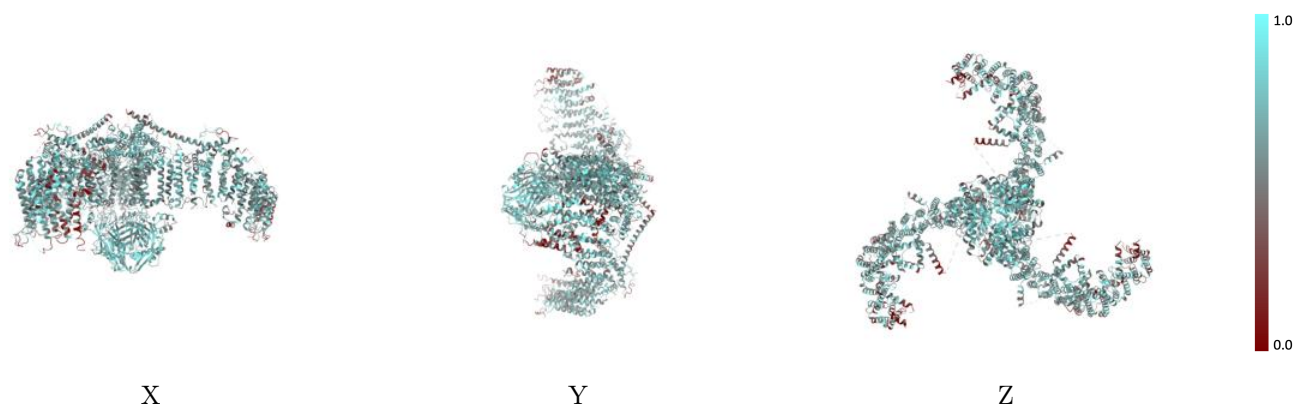
The images above show the 3D surface view of the map at the recommended contour level 11.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



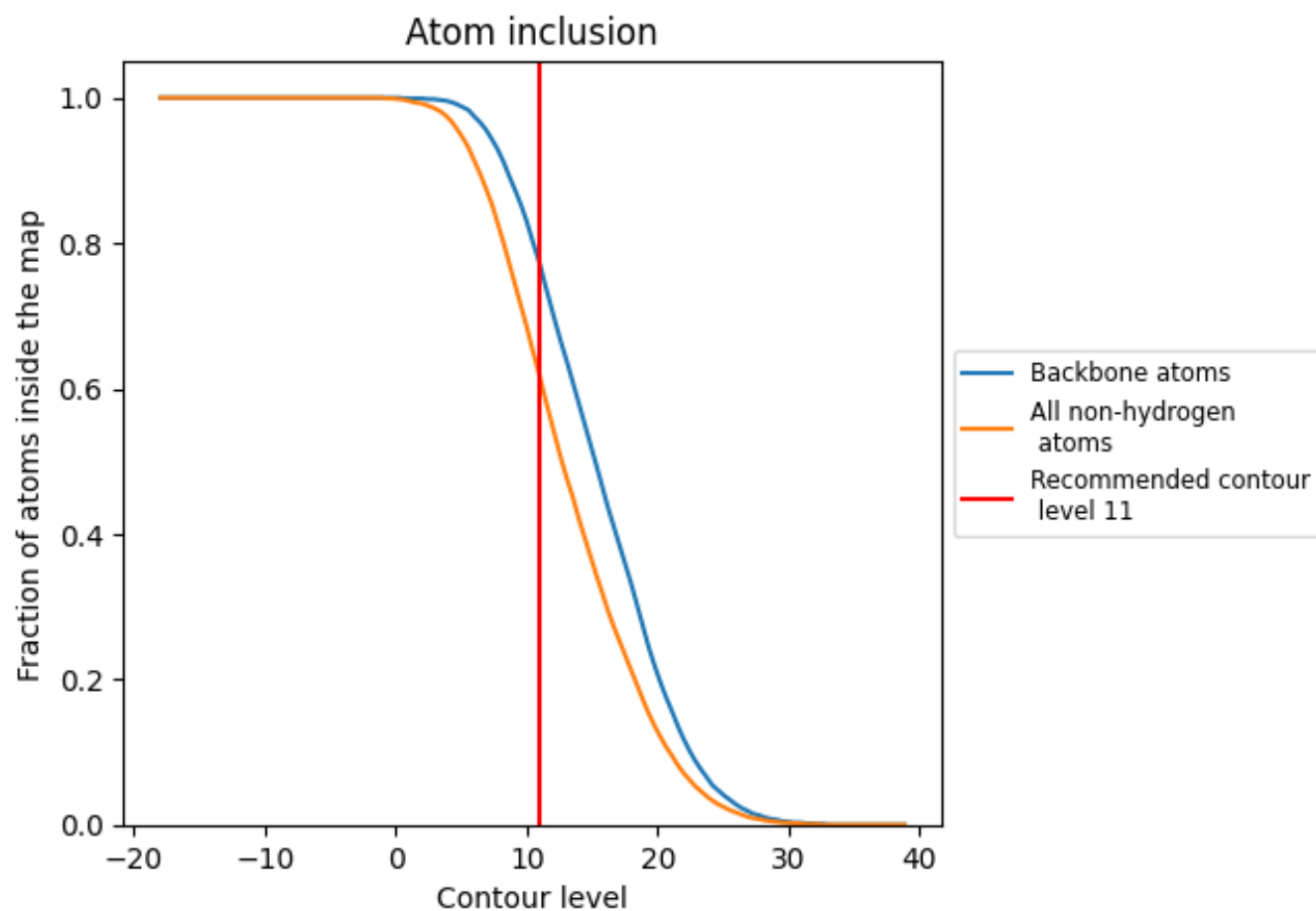
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (11).

9.4 Atom inclusion [i](#)



At the recommended contour level, 77% of all backbone atoms, 62% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (11) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.6170	<div></div> 0.4450
A	<div></div> 0.6170	<div></div> 0.4440
B	<div></div> 0.6170	<div></div> 0.4460
F	<div></div> 0.6170	<div></div> 0.4450

