



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 03:27 AM UTC

PDB ID : 6IUR / pdb_00006iur
Title : A phosphatase complex STRN3-PP2Aa
Authors : Tang, Y.; Zhou, Z.C.
Deposited on : 2018-11-30
Resolution : 3.33 Å(reported)

This is a Full wwPDB X-ray Structure 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/XrayValidationReportHelp>

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:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

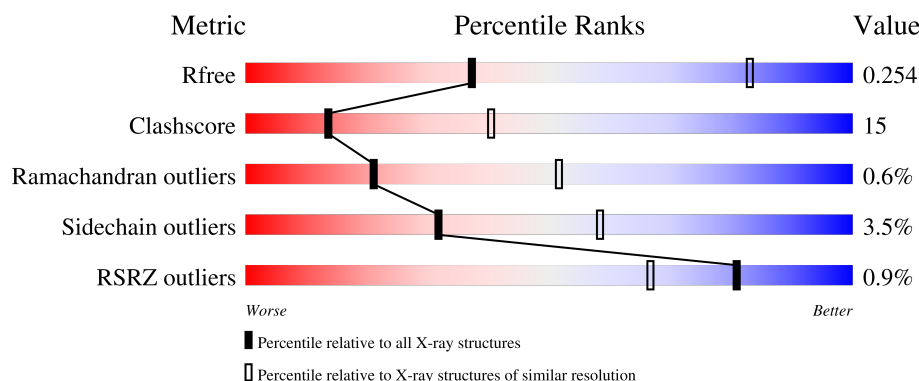
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.33 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)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1434 (3.38-3.30)
Clashscore	190562	1479 (3.38-3.30)
Ramachandran outliers	187476	1456 (3.38-3.30)
Sidechain outliers	187428	1455 (3.38-3.30)
RSRZ outliers	180081	1434 (3.38-3.30)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	587	66% 32% ..
1	B	587	2% 68% 28% ..
1	E	587	67% 29% ..
1	F	587	2% 65% 31% ..
2	C	50	4% 64% 28% 6%

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Mol	Chain	Length	Quality of chain
2	D	50	 66% 22% 8%
2	G	50	 2% 74% 18% 8%
2	H	50	 78% 14% 8%

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
3	TME	C	201	-	-	-	X
3	TME	F	602	-	-	-	X
3	TME	F	603	-	-	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 19541 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 PP2A scaffolding subunit.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	581	Total	C	N	O	S	0	0	0
			4521	2872	761	861	27			
1	B	577	Total	C	N	O	S	0	0	0
			4402	2795	744	837	26			
1	E	581	Total	C	N	O	S	0	0	0
			4521	2872	761	861	27			
1	F	582	Total	C	N	O	S	0	0	0
			4526	2880	762	858	26			

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	3	GLY	-	expression tag	UNP P30153
A	4	SER	-	expression tag	UNP P30153
A	5	PRO	-	expression tag	UNP P30153
A	6	GLU	-	expression tag	UNP P30153
A	7	PHE	-	expression tag	UNP P30153
B	3	GLY	-	expression tag	UNP P30153
B	4	SER	-	expression tag	UNP P30153
B	5	PRO	-	expression tag	UNP P30153
B	6	GLU	-	expression tag	UNP P30153
B	7	PHE	-	expression tag	UNP P30153
E	3	GLY	-	expression tag	UNP P30153
E	4	SER	-	expression tag	UNP P30153
E	5	PRO	-	expression tag	UNP P30153
E	6	GLU	-	expression tag	UNP P30153
E	7	PHE	-	expression tag	UNP P30153
F	3	GLY	-	expression tag	UNP P30153
F	4	SER	-	expression tag	UNP P30153
F	5	PRO	-	expression tag	UNP P30153
F	6	GLU	-	expression tag	UNP P30153
F	7	PHE	-	expression tag	UNP P30153

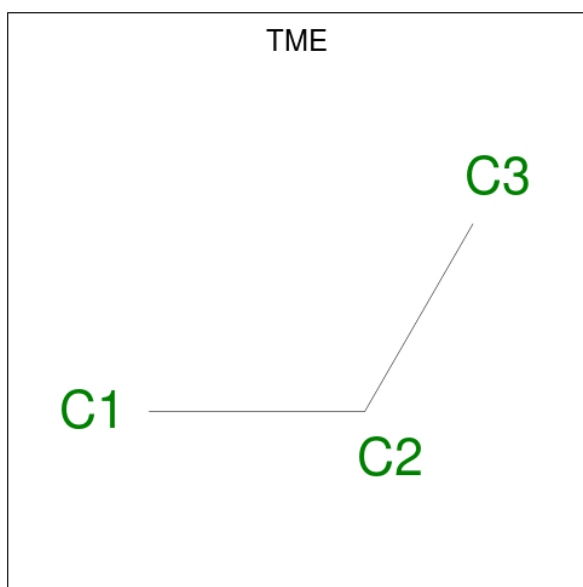
- Molecule 2 is a protein called Striatin-3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	47	Total	C	N	O	S	0	0	0
			389	241	75	71	2			
2	D	46	Total	C	N	O	S	0	0	0
			391	246	76	68	1			
2	G	46	Total	C	N	O	S	0	0	0
			377	234	74	68	1			
2	H	46	Total	C	N	O	S	0	0	0
			391	246	76	68	1			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	82	SER	-	expression tag	UNP Q13033
C	83	THR	-	expression tag	UNP Q13033
C	84	MET	-	expression tag	UNP Q13033
C	85	ASP	-	expression tag	UNP Q13033
D	82	SER	-	expression tag	UNP Q13033
D	83	THR	-	expression tag	UNP Q13033
D	84	MET	-	expression tag	UNP Q13033
D	85	ASP	-	expression tag	UNP Q13033
G	82	SER	-	expression tag	UNP Q13033
G	83	THR	-	expression tag	UNP Q13033
G	84	MET	-	expression tag	UNP Q13033
G	85	ASP	-	expression tag	UNP Q13033
H	82	SER	-	expression tag	UNP Q13033
H	83	THR	-	expression tag	UNP Q13033
H	84	MET	-	expression tag	UNP Q13033
H	85	ASP	-	expression tag	UNP Q13033

- Molecule 3 is PROPANE (CCD ID: TME) (formula: C₃H₈).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	B	1	Total C 3 3	0	0
3	C	1	Total C 3 3	0	0
3	F	1	Total C 3 3	0	0
3	F	1	Total C 3 3	0	0
3	F	1	Total C 3 3	0	0
3	F	1	Total C 3 3	0	0

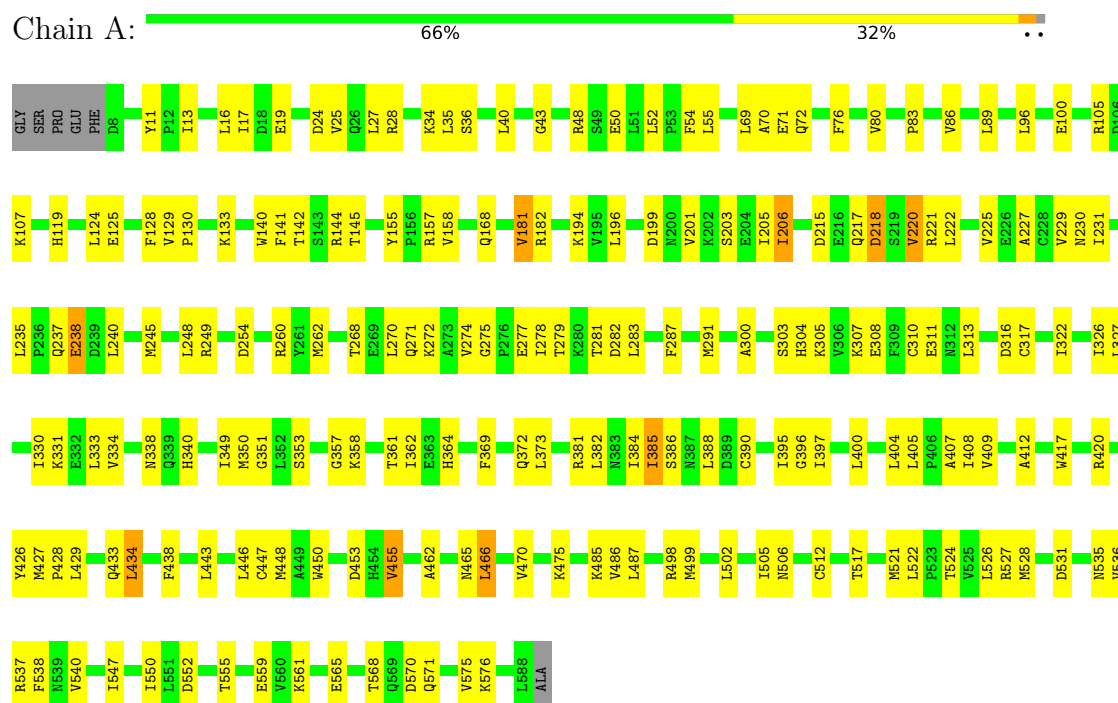
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	2	Total O 2 2	0	0
4	B	2	Total O 2 2	0	0
4	G	1	Total O 1 1	0	0

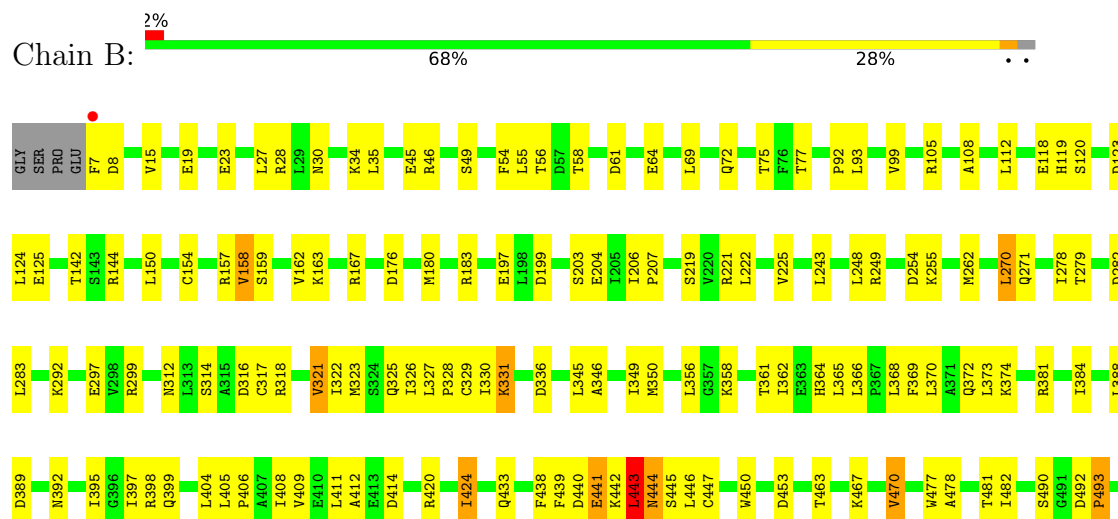
3 Residue-property plots

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

• Molecule 1: PP2A scaffolding subunit



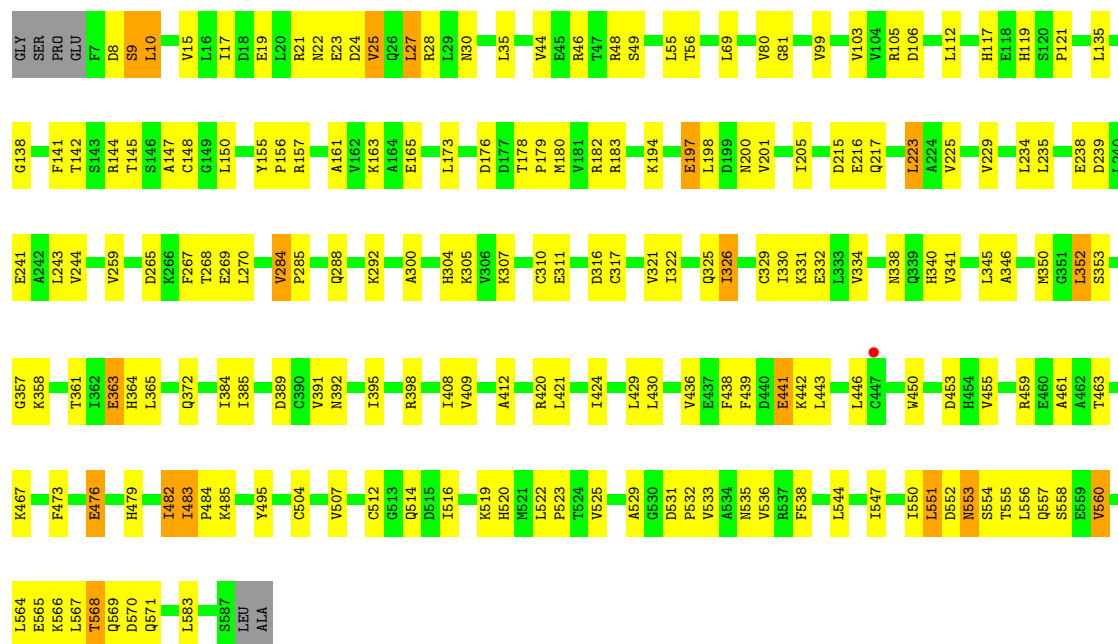
• Molecule 1: PP2A scaffolding subunit





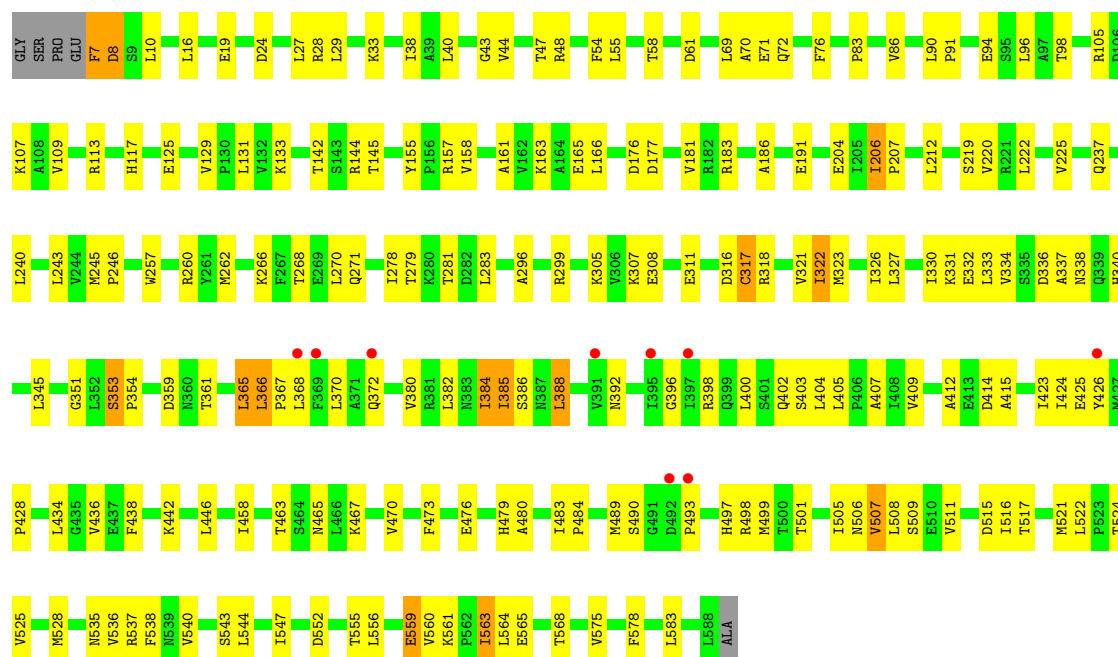
• Molecule 1: PP2A scaffolding subunit

Chain E: 67% 29% ..



• Molecule 1: PP2A scaffolding subunit

Chain F: 2% 65% 31% ..



● Molecule 2: Striatin-3

Chain C:  4% 64% 28% 6%



● Molecule 2: Striatin-3

Chain D:  66% 22% 8%



● Molecule 2: Striatin-3

Chain G:  2% 74% 18% 8%



● Molecule 2: Striatin-3

Chain H:  78% 14% 8%



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	107.09Å 201.74Å 116.06Å 90.00° 106.29° 90.00°	Depositor
Resolution (Å)	44.07 – 3.33 44.07 – 3.33	Depositor EDS
% Data completeness (in resolution range)	89.8 (44.07-3.33) 89.5 (44.07-3.33)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.64 (at 3.33Å)	Xtriage
Refinement program	PHENIX (1.12_2829: ???)	Depositor
R, R_{free}	0.199 , 0.249 0.205 , 0.254	Depositor DCC
R_{free} test set	2003 reflections (2.90%)	wwPDB-VP
Wilson B-factor (Å ²)	87.8	Xtriage
Anisotropy	0.140	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 69.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	19541	wwPDB-VP
Average B, all atoms (Å ²)	97.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.49% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

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	0.21	0/4595	0.50	0/6242
1	B	0.30	0/4475	0.67	11/6087 (0.2%)
1	E	0.31	0/4596	0.60	3/6243 (0.0%)
1	F	0.23	0/4601	0.50	0/6249
2	C	0.30	0/390	0.65	0/515
2	D	0.21	0/394	0.53	0/521
2	G	0.31	0/378	0.66	0/500
2	H	0.21	0/394	0.55	0/521
All	All	0.26	0/19823	0.57	14/26878 (0.1%)

There are no bond length outliers.

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	548	GLY	CA-C-N	13.03	132.79	119.24
1	B	548	GLY	C-N-CA	13.03	132.79	119.24
1	E	10	LEU	N-CA-C	-8.39	101.88	114.64
1	B	550	ILE	N-CA-C	-8.06	98.05	108.93
1	B	549	PRO	N-CA-C	-7.68	101.34	113.78
1	B	549	PRO	CA-C-N	-7.52	109.79	120.77
1	B	549	PRO	C-N-CA	-7.52	109.79	120.77
1	B	439	PHE	N-CA-C	-6.13	97.74	110.80
1	E	550	ILE	N-CA-C	-6.06	101.19	109.37
1	B	548	GLY	O-C-N	5.86	127.63	121.77
1	E	552	ASP	N-CA-C	-5.25	104.32	111.56
1	B	443	LEU	CA-C-N	-5.24	111.54	121.54
1	B	443	LEU	C-N-CA	-5.24	111.54	121.54
1	B	550	ILE	CB-CA-C	5.01	119.50	111.69

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	4521	0	4610	133	0
1	B	4402	0	4393	146	0
1	E	4521	0	4599	142	0
1	F	4526	0	4620	136	0
2	C	389	0	405	11	0
2	D	391	0	413	11	0
2	G	377	0	392	7	0
2	H	391	0	413	5	0
3	B	3	0	8	1	0
3	C	3	0	8	0	0
3	F	12	0	32	0	0
4	A	2	0	0	0	0
4	B	2	0	0	0	0
4	G	1	0	0	0	0
All	All	19541	0	19893	577	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 15.

All (577) 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:B:547:ILE:C	1:B:549:PRO:HD2	1.33	1.51
1:E:482:ILE:CG2	1:E:483:ILE:H	1.60	1.15
1:B:443:LEU:O	1:B:445:SER:N	1.80	1.14
1:E:482:ILE:CG2	1:E:483:ILE:N	2.05	1.13
1:E:265:ASP:O	1:E:305:LYS:NZ	1.81	1.12
1:B:547:ILE:O	1:B:549:PRO:HD2	1.52	1.09
1:B:443:LEU:O	1:B:444:ASN:C	1.97	1.07
1:B:443:LEU:O	1:B:446:LEU:N	1.87	1.06
1:B:547:ILE:C	1:B:549:PRO:CD	2.28	1.05
1:E:482:ILE:HG22	1:E:483:ILE:N	1.57	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:482:ILE:HG22	1:E:483:ILE:H	0.83	0.98
1:B:548:GLY:N	1:B:549:PRO:HD2	1.58	0.97
1:B:547:ILE:O	1:B:549:PRO:CD	2.13	0.97
1:B:398:ARG:HG2	1:B:438:PHE:CE1	2.04	0.93
1:B:398:ARG:HG2	1:B:438:PHE:HE1	1.37	0.90
1:A:245:MET:HG3	1:A:278:ILE:HD11	1.55	0.89
1:B:93:LEU:HB3	1:B:112:LEU:HD11	1.52	0.89
1:B:404:LEU:HD12	1:B:405:LEU:N	1.88	0.89
1:E:267:PHE:O	1:E:270:LEU:N	2.08	0.87
1:E:229:VAL:HG11	1:E:269:GLU:HG3	1.55	0.86
1:A:498:ARG:O	1:A:528:MET:HE1	1.74	0.86
1:A:434:LEU:HD21	1:A:438:PHE:CE2	2.11	0.85
1:E:482:ILE:O	1:E:484:PRO:N	2.09	0.85
1:A:434:LEU:CD2	1:A:438:PHE:CD2	2.61	0.83
1:F:467:LYS:HB2	1:F:507:VAL:HG13	1.59	0.83
1:B:548:GLY:N	1:B:549:PRO:CD	2.38	0.83
1:A:434:LEU:HD21	1:A:438:PHE:CD2	2.13	0.83
1:E:551:LEU:HD23	1:E:551:LEU:O	1.78	0.82
1:F:483:ILE:HG13	1:F:484:PRO:HD3	1.60	0.81
1:E:482:ILE:C	1:E:484:PRO:HD2	2.05	0.81
1:A:434:LEU:HD23	1:A:438:PHE:HD2	1.45	0.81
1:B:420:ARG:NH1	1:B:453:ASP:OD2	2.15	0.80
1:E:514:GLN:NE2	1:E:551:LEU:O	2.16	0.78
1:B:490:SER:HB3	1:B:501:THR:HG21	1.66	0.77
1:B:7:PHE:CD1	1:B:8:ASP:N	2.52	0.77
1:E:482:ILE:O	1:E:483:ILE:C	2.26	0.77
1:B:119:HIS:O	1:B:157:ARG:NH2	2.18	0.76
1:F:434:LEU:HD21	1:F:438:PHE:HD2	1.50	0.76
1:E:119:HIS:O	1:E:157:ARG:NH2	2.19	0.75
1:E:441:GLU:HG2	1:E:442:LYS:H	1.50	0.75
1:A:119:HIS:O	1:A:157:ARG:NH2	2.20	0.75
1:B:546:LYS:O	1:B:549:PRO:HG3	1.86	0.74
1:E:482:ILE:HG23	1:E:483:ILE:N	2.00	0.74
1:A:362:ILE:HD11	1:A:395:ILE:HB	1.70	0.73
1:A:194:LYS:HE3	1:A:230:ASN:HB3	1.71	0.73
1:B:549:PRO:O	1:B:551:LEU:HD12	1.90	0.72
1:A:34:LYS:O	2:D:117:ARG:NH2	2.23	0.71
1:E:551:LEU:HD23	1:E:551:LEU:C	2.15	0.71
1:A:448:MET:HG3	1:A:485:LYS:HD3	1.70	0.71
1:F:366:LEU:H	1:F:367:PRO:HD2	1.55	0.71
1:B:443:LEU:C	1:B:445:SER:N	2.49	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:498:ARG:NH1	1:A:531:ASP:OD2	2.23	0.70
1:B:424:ILE:HD11	1:B:450:TRP:CD2	2.27	0.70
1:B:447:CYS:HA	1:B:450:TRP:CD1	2.27	0.70
1:B:548:GLY:O	1:B:550:ILE:O	2.10	0.69
1:E:482:ILE:O	1:E:485:LYS:N	2.25	0.69
1:F:307:LYS:HD3	1:F:351:GLY:HA3	1.74	0.69
1:A:417:TRP:HE1	1:A:455:VAL:HG21	1.57	0.69
1:E:35:LEU:HD21	1:E:55:LEU:HD11	1.75	0.69
1:E:551:LEU:HG	1:E:553:ASN:H	1.58	0.69
1:B:404:LEU:HD12	1:B:404:LEU:C	2.18	0.69
1:A:254:ASP:O	1:A:260:ARG:NH1	2.25	0.68
1:A:447:CYS:HA	1:A:450:TRP:CD1	2.29	0.68
1:A:357:GLY:O	1:A:361:THR:HG23	1.93	0.68
1:F:334:VAL:HG13	1:F:372:GLN:HG2	1.75	0.68
1:F:499:MET:HG3	1:F:536:VAL:HG12	1.76	0.67
1:B:327:LEU:HD21	1:B:364:HIS:HB3	1.76	0.67
1:F:538:PHE:HB3	1:F:575:VAL:HG22	1.76	0.67
1:E:409:VAL:HG23	1:E:446:LEU:HD21	1.76	0.67
1:F:55:LEU:HD13	1:F:69:LEU:HD11	1.77	0.67
1:B:547:ILE:O	1:B:549:PRO:CG	2.42	0.67
1:E:176:ASP:O	1:E:182:ARG:NH1	2.28	0.67
1:F:544:LEU:HD23	1:F:544:LEU:C	2.20	0.67
1:B:405:LEU:HD12	1:B:443:LEU:HD21	1.76	0.67
1:E:554:SER:O	1:E:558:SER:HB3	1.95	0.67
1:E:555:THR:O	1:E:558:SER:N	2.28	0.67
1:F:392:ASN:HA	1:F:396:GLY:HA3	1.75	0.67
1:F:498:ARG:HB3	1:F:528:MET:HE1	1.77	0.66
1:E:288:GLN:NE2	1:E:325:GLN:O	2.27	0.66
1:B:546:LYS:O	1:B:549:PRO:CG	2.43	0.66
1:E:155:TYR:O	1:E:163:LYS:NZ	2.29	0.66
1:B:35:LEU:HD21	1:B:55:LEU:HD21	1.78	0.65
1:B:330:ILE:HG23	1:B:345:LEU:HD21	1.77	0.65
1:B:105:ARG:HD3	1:B:142:THR:HB	1.76	0.65
2:G:96:ARG:NH2	2:H:101:GLN:OE1	2.30	0.65
1:B:547:ILE:O	1:B:549:PRO:HG2	1.97	0.65
1:F:434:LEU:HD21	1:F:438:PHE:CD2	2.32	0.64
1:A:71:GLU:HG2	1:A:107:LYS:HE2	1.79	0.64
1:A:434:LEU:CD2	1:A:438:PHE:HD2	2.01	0.64
1:F:564:LEU:HD13	1:F:583:LEU:HB3	1.78	0.64
1:B:405:LEU:CD1	1:B:443:LEU:HD21	2.27	0.64
1:B:443:LEU:HD23	1:B:443:LEU:N	2.11	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:382:LEU:O	1:F:386:SER:OG	2.16	0.63
1:A:372:GLN:HB3	1:A:384:ILE:HG13	1.81	0.63
1:A:434:LEU:CD2	1:A:438:PHE:CE2	2.81	0.63
1:F:524:THR:O	1:F:528:MET:HG2	1.99	0.63
1:A:502:LEU:O	1:A:506:ASN:ND2	2.32	0.63
1:A:275:GLY:O	1:A:279:THR:HG23	1.98	0.62
1:E:482:ILE:C	1:E:484:PRO:CD	2.73	0.62
1:A:221:ARG:NH1	1:A:254:ASP:OD2	2.32	0.62
1:A:434:LEU:HD23	1:A:434:LEU:O	1.99	0.62
1:B:551:LEU:HD12	1:B:551:LEU:N	2.14	0.62
1:E:482:ILE:HG22	1:E:483:ILE:HG23	1.82	0.62
1:E:267:PHE:O	1:E:269:GLU:N	2.33	0.62
2:D:89:GLU:HA	2:D:92:GLU:HG2	1.82	0.62
1:F:257:TRP:HA	1:F:260:ARG:HE	1.65	0.61
1:A:125:GLU:HG2	1:A:158:VAL:HG23	1.80	0.61
1:B:34:LYS:O	2:C:117:ARG:NH2	2.33	0.61
1:B:551:LEU:H	1:B:551:LEU:CD1	2.13	0.61
1:E:467:LYS:HB2	1:E:507:VAL:HG12	1.82	0.61
1:B:447:CYS:HA	1:B:450:TRP:HD1	1.62	0.61
1:B:506:ASN:OD1	1:B:543:SER:HB2	2.00	0.61
1:B:549:PRO:O	1:B:550:ILE:C	2.43	0.61
1:B:167:ARG:NH1	1:B:204:GLU:OE2	2.34	0.61
1:B:23:GLU:N	1:B:23:GLU:OE1	2.34	0.61
1:B:362:ILE:HA	1:B:366:LEU:HD12	1.83	0.61
1:B:206:ILE:HG22	1:B:207:PRO:HD3	1.82	0.61
1:E:453:ASP:O	1:E:459:ARG:NH1	2.32	0.60
1:A:52:LEU:HD21	1:A:89:LEU:HD12	1.83	0.60
1:A:420:ARG:NH1	1:A:453:ASP:OD2	2.35	0.60
1:F:470:VAL:HG23	1:F:511:VAL:HG11	1.83	0.60
1:A:303:SER:HB3	1:A:333:LEU:HD23	1.84	0.60
1:B:515:ASP:OD1	1:B:515:ASP:N	2.35	0.60
1:F:72:GLN:HG3	1:F:76:PHE:HE1	1.66	0.60
1:F:424:ILE:C	1:F:426:TYR:H	2.10	0.60
1:E:316:ASP:OD1	1:E:317:CYS:N	2.32	0.60
1:F:16:LEU:HB2	1:F:38:ILE:HD13	1.84	0.59
1:A:217:GLN:HB3	1:A:220:VAL:HG22	1.84	0.59
1:A:274:VAL:HG12	1:A:278:ILE:HG23	1.84	0.59
1:F:71:GLU:HG2	1:F:107:LYS:HE2	1.84	0.59
1:F:434:LEU:HD23	1:F:434:LEU:O	2.01	0.59
1:E:555:THR:O	1:E:556:LEU:C	2.43	0.59
1:F:370:LEU:HD22	1:F:403:SER:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:46:ARG:HA	1:B:49:SER:HB2	1.83	0.59
2:C:124:ALA:O	2:C:127:GLN:HG2	2.03	0.59
1:A:310:CYS:HB3	1:A:322:ILE:HD11	1.85	0.59
1:B:512:CYS:HB2	1:B:517:THR:HG23	1.83	0.58
1:F:125:GLU:HG2	1:F:158:VAL:HG23	1.85	0.58
2:D:90:ARG:O	2:D:94:GLN:HG3	2.02	0.58
1:B:120:SER:OG	1:B:123:ASP:OD1	2.21	0.58
1:E:420:ARG:O	1:E:424:ILE:HG23	2.03	0.58
1:A:237:GLN:HA	1:A:240:LEU:HD13	1.84	0.58
1:A:268:THR:HG23	1:A:305:LYS:HE3	1.86	0.58
1:B:323:MET:HE2	1:B:356:LEU:HD22	1.85	0.58
1:F:158:VAL:O	1:F:163:LYS:NZ	2.29	0.58
1:F:331:LYS:HG3	1:F:368:LEU:HD21	1.85	0.58
1:E:544:LEU:HA	1:E:547:ILE:HG12	1.86	0.58
1:E:420:ARG:NH1	1:E:453:ASP:OD2	2.36	0.58
1:B:144:ARG:NH1	1:B:176:ASP:OD2	2.37	0.57
1:F:7:PHE:N	1:F:7:PHE:HD1	2.01	0.57
1:F:113:ARG:NH1	1:F:191:GLU:OE2	2.31	0.57
1:E:17:ILE:HG22	1:E:21:ARG:HH21	1.70	0.57
1:E:421:LEU:O	1:E:424:ILE:HG13	2.03	0.57
1:E:361:THR:HA	1:E:365:LEU:HB2	1.85	0.57
1:A:55:LEU:HD13	1:A:69:LEU:HD11	1.86	0.57
1:E:99:VAL:O	1:E:105:ARG:NH1	2.35	0.57
1:F:336:ASP:OD1	1:F:337:ALA:N	2.37	0.57
1:B:158:VAL:HG13	1:B:162:VAL:HG23	1.86	0.57
1:F:7:PHE:CE1	1:F:8:ASP:OD1	2.58	0.57
1:F:318:ARG:O	1:F:322:ILE:HB	2.02	0.57
1:A:310:CYS:HA	1:A:313:LEU:HG	1.85	0.57
1:E:25:VAL:HG12	1:E:28:ARG:HH21	1.68	0.57
1:E:284:VAL:HG12	1:E:285:PRO:HD3	1.87	0.56
1:A:300:ALA:O	1:A:304:HIS:HB2	2.05	0.56
1:A:43:GLY:HA2	2:C:129:ARG:HH21	1.70	0.56
1:B:551:LEU:N	1:B:551:LEU:CD1	2.69	0.56
1:F:538:PHE:HD1	1:F:578:PHE:HD2	1.50	0.56
1:F:43:GLY:O	1:F:47:THR:HG23	2.05	0.56
1:A:11:TYR:OH	1:A:50:GLU:OE1	2.23	0.56
1:A:105:ARG:HD3	1:A:142:THR:HB	1.86	0.56
1:A:565:GLU:O	1:A:568:THR:OG1	2.24	0.56
1:B:112:LEU:HD23	1:B:150:LEU:HD11	1.87	0.56
1:A:19:GLU:OE2	2:D:117:ARG:NH1	2.39	0.56
1:E:482:ILE:O	1:E:484:PRO:CD	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:54:PHE:O	1:F:58:THR:OG1	2.23	0.56
1:A:129:VAL:HG12	1:A:133:LYS:HE3	1.87	0.56
1:A:238:GLU:CD	1:A:238:GLU:H	2.12	0.56
1:A:450:TRP:HB3	1:A:462:ALA:HB2	1.88	0.56
1:B:278:ILE:HD12	1:B:278:ILE:H	1.71	0.56
1:E:565:GLU:O	1:E:568:THR:HG22	2.07	0.55
1:F:7:PHE:N	1:F:7:PHE:CD1	2.73	0.55
1:F:434:LEU:CD2	1:F:438:PHE:HD2	2.18	0.55
1:B:299:ARG:NH1	1:B:336:ASP:OD1	2.40	0.55
1:B:328:PRO:HA	1:B:331:LYS:HE3	1.87	0.55
1:A:16:LEU:HD23	1:A:54:PHE:HE2	1.72	0.55
1:A:40:LEU:HD23	2:C:125:LEU:HD23	1.89	0.55
1:F:412:ALA:HB2	1:F:423:ILE:HD11	1.88	0.55
1:B:28:ARG:NH1	1:B:61:ASP:OD2	2.39	0.55
1:F:94:GLU:HB3	1:F:131:LEU:HD11	1.87	0.55
1:F:311:GLU:O	1:F:318:ARG:NH2	2.36	0.55
1:F:561:LYS:O	1:F:565:GLU:HG2	2.07	0.55
1:B:93:LEU:HD13	1:B:112:LEU:HD12	1.88	0.55
1:B:550:ILE:O	1:B:552:ASP:OD1	2.23	0.55
1:E:350:MET:HE3	1:E:384:ILE:HG23	1.89	0.55
1:B:316:ASP:OD1	1:B:317:CYS:N	2.38	0.55
1:F:322:ILE:HG12	1:F:326:ILE:HD12	1.88	0.55
1:F:372:GLN:HB3	1:F:384:ILE:HD11	1.88	0.55
1:A:307:LYS:HD2	1:A:351:GLY:HA3	1.88	0.55
1:A:537:ARG:NH1	1:A:570:ASP:OD2	2.39	0.55
1:B:424:ILE:HD11	1:B:450:TRP:CE2	2.42	0.55
1:A:201:VAL:HA	1:A:205:ILE:HB	1.88	0.55
1:A:268:THR:HG21	1:A:308:GLU:HG3	1.88	0.55
1:B:547:ILE:O	1:B:550:ILE:N	2.34	0.55
1:B:549:PRO:O	1:B:551:LEU:N	2.40	0.55
1:E:535:ASN:HA	1:E:538:PHE:CD2	2.41	0.55
1:B:99:VAL:O	1:B:105:ARG:NH1	2.40	0.54
1:B:467:LYS:HD3	1:B:507:VAL:HG22	1.89	0.54
1:E:292:LYS:NZ	1:E:329:CYS:SG	2.80	0.54
1:E:334:VAL:HA	1:E:372:GLN:HE21	1.71	0.54
1:F:317:CYS:O	1:F:321:VAL:HG12	2.07	0.54
1:A:388:LEU:HB2	1:A:433:GLN:NE2	2.22	0.54
1:A:417:TRP:NE1	1:A:455:VAL:HG21	2.23	0.54
1:B:249:ARG:NH1	1:B:282:ASP:OD2	2.40	0.54
1:E:476:GLU:CD	1:E:476:GLU:H	2.15	0.54
1:F:544:LEU:O	1:F:547:ILE:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:218:ASP:OD1	1:A:221:ARG:NH2	2.41	0.54
1:F:183:ARG:HD3	1:F:219:SER:HB2	1.88	0.54
1:F:268:THR:HA	1:F:271:GLN:HG2	1.89	0.54
1:E:544:LEU:HD21	1:E:560:VAL:HG13	1.89	0.54
1:A:35:LEU:HB3	1:A:72:GLN:HG2	1.89	0.54
1:E:117:HIS:HA	1:E:157:ARG:HH12	1.71	0.54
1:F:222:LEU:O	1:F:225:VAL:HG12	2.08	0.54
1:E:544:LEU:HD22	1:E:564:LEU:HD13	1.89	0.54
1:B:504:CYS:O	1:B:508:LEU:HB2	2.08	0.54
1:A:358:LYS:O	1:A:362:ILE:HG12	2.09	0.53
1:F:361:THR:HG23	1:F:365:LEU:HD22	1.90	0.53
1:A:277:GLU:O	1:A:281:THR:HG23	2.08	0.53
1:E:267:PHE:O	1:E:268:THR:C	2.50	0.53
1:A:568:THR:O	1:A:576:LYS:HG2	2.08	0.53
1:A:552:ASP:OD1	1:A:555:THR:OG1	2.19	0.53
2:C:101:GLN:OE1	2:C:104:ARG:NH2	2.42	0.53
1:A:373:LEU:HD12	1:A:381:ARG:HG2	1.91	0.53
1:E:512:CYS:SG	1:E:516:ILE:HD11	2.48	0.53
1:E:529:ALA:HB1	1:E:567:LEU:HD21	1.91	0.53
1:F:90:LEU:HD22	1:F:131:LEU:HD13	1.91	0.53
1:F:515:ASP:OD1	1:F:516:ILE:N	2.39	0.53
1:A:35:LEU:HD21	1:A:55:LEU:HD11	1.91	0.53
1:E:525:VAL:HG11	1:E:547:ILE:HD11	1.90	0.53
1:A:227:ALA:O	1:A:231:ILE:HG12	2.09	0.53
1:A:182:ARG:NH1	1:A:215:ASP:OD2	2.33	0.53
1:A:412:ALA:HA	1:A:450:TRP:HH2	1.73	0.53
1:F:332:GLU:OE1	1:F:332:GLU:N	2.38	0.53
1:E:570:ASP:OD1	1:E:571:GLN:N	2.42	0.52
1:A:86:VAL:HG13	1:A:119:HIS:CE1	2.45	0.52
1:F:370:LEU:HD11	1:F:403:SER:O	2.09	0.52
1:F:409:VAL:HG22	1:F:446:LEU:HD11	1.91	0.52
1:F:497:HIS:O	1:F:501:THR:HG23	2.09	0.52
1:A:331:LYS:O	1:A:334:VAL:HG12	2.10	0.52
1:B:409:VAL:HG12	1:B:446:LEU:HD11	1.90	0.52
1:F:279:THR:HA	1:F:283:LEU:HD12	1.90	0.52
1:A:268:THR:HA	1:A:271:GLN:HG2	1.90	0.52
1:A:408:ILE:HG21	1:A:443:LEU:HD21	1.92	0.52
1:A:498:ARG:NH1	1:A:536:VAL:HG21	2.25	0.52
1:B:404:LEU:O	1:B:405:LEU:C	2.51	0.52
1:B:443:LEU:O	1:B:445:SER:CA	2.57	0.52
2:C:118:ILE:HG22	2:D:118:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:475:LYS:HG3	1:A:512:CYS:HA	1.91	0.52
1:B:536:VAL:O	1:B:540:VAL:HG23	2.10	0.52
1:F:509:SER:HA	1:F:517:THR:HG21	1.89	0.52
1:E:363:GLU:HG2	1:E:364:HIS:CE1	2.45	0.52
1:B:388:LEU:HB2	1:B:433:GLN:OE1	2.10	0.52
1:E:463:THR:HG22	1:E:504:CYS:SG	2.50	0.52
1:F:538:PHE:CD1	1:F:578:PHE:HD2	2.28	0.52
1:B:7:PHE:CG	1:B:8:ASP:N	2.78	0.51
1:F:326:ILE:O	1:F:330:ILE:HG12	2.10	0.51
1:B:27:LEU:HD21	2:C:110:LEU:HA	1.93	0.51
1:B:279:THR:HA	1:B:283:LEU:HB3	1.91	0.51
1:B:470:VAL:HB	1:B:478:ALA:HB2	1.93	0.51
1:F:556:LEU:HD12	1:F:560:VAL:HG11	1.91	0.51
1:A:466:LEU:O	1:A:470:VAL:HG23	2.10	0.51
1:E:544:LEU:HD11	1:E:560:VAL:HG22	1.91	0.51
1:E:551:LEU:N	1:E:551:LEU:CD2	2.73	0.51
1:F:535:ASN:HA	1:F:538:PHE:CE2	2.45	0.51
1:A:235:LEU:HB2	1:A:240:LEU:HD12	1.92	0.51
1:A:382:LEU:O	1:A:386:SER:OG	2.24	0.51
1:B:108:ALA:O	1:B:112:LEU:HD13	2.09	0.51
1:B:125:GLU:HG2	1:B:158:VAL:CG2	2.41	0.50
1:B:221:ARG:O	1:B:225:VAL:HG13	2.09	0.50
1:F:384:ILE:O	1:F:388:LEU:HD22	2.11	0.50
1:F:556:LEU:O	1:F:560:VAL:HG12	2.11	0.50
1:E:551:LEU:H	1:E:551:LEU:HD22	1.76	0.50
1:B:443:LEU:O	1:B:445:SER:C	2.52	0.50
1:A:199:ASP:O	1:A:203:SER:HB3	2.12	0.50
1:A:487:LEU:HD22	1:A:524:THR:HG21	1.92	0.50
1:B:183:ARG:HD3	1:B:219:SER:HB2	1.94	0.50
1:E:424:ILE:HG22	1:E:450:TRP:CZ3	2.47	0.50
1:A:334:VAL:HG23	1:A:372:GLN:HG2	1.94	0.50
1:F:155:TYR:O	1:F:158:VAL:HG12	2.12	0.50
1:F:436:VAL:HG12	1:F:473:PHE:CZ	2.47	0.50
1:F:544:LEU:C	1:F:544:LEU:CD2	2.85	0.50
1:F:544:LEU:HD21	1:F:560:VAL:HG21	1.93	0.50
1:A:141:PHE:HA	1:A:144:ARG:HD3	1.93	0.50
1:E:555:THR:OG1	1:E:556:LEU:N	2.44	0.50
1:A:307:LYS:NZ	1:A:311:GLU:OE1	2.44	0.49
1:A:350:MET:HE3	1:A:384:ILE:O	2.12	0.49
1:B:159:SER:OG	1:B:162:VAL:HG22	2.12	0.49
1:E:357:GLY:O	1:E:361:THR:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:551:LEU:N	1:E:551:LEU:HD22	2.26	0.49
1:E:22:ASN:HD21	1:E:27:LEU:HD23	1.77	0.49
1:E:55:LEU:HD13	1:E:69:LEU:HD11	1.93	0.49
1:E:121:PRO:HB3	1:E:157:ARG:O	2.12	0.49
1:E:178:THR:HG22	1:E:180:MET:H	1.77	0.49
1:F:28:ARG:NH1	1:F:61:ASP:OD1	2.45	0.49
1:A:427:MET:N	1:A:428:PRO:HD2	2.26	0.49
1:B:404:LEU:C	1:B:404:LEU:CD1	2.85	0.49
1:F:396:GLY:O	1:F:400:LEU:HB2	2.13	0.49
1:A:72:GLN:HG3	1:A:76:PHE:HE1	1.76	0.49
1:A:322:ILE:HD13	1:A:326:ILE:HD12	1.95	0.49
1:B:361:THR:HA	1:B:365:LEU:HB2	1.95	0.49
1:E:24:ASP:OD1	1:E:25:VAL:N	2.45	0.49
1:A:27:LEU:HD21	2:D:110:LEU:HA	1.94	0.49
1:E:482:ILE:HG22	1:E:483:ILE:CG2	2.43	0.49
1:F:145:THR:HG23	1:F:181:VAL:HG22	1.95	0.49
1:F:268:THR:HG21	1:F:308:GLU:HG3	1.95	0.49
1:A:349:ILE:HG23	1:A:369:PHE:HE1	1.77	0.49
1:A:124:LEU:HD23	1:A:128:PHE:HB3	1.95	0.49
1:B:349:ILE:HG12	1:B:369:PHE:HE1	1.78	0.49
1:B:54:PHE:HD2	1:B:55:LEU:HD12	1.78	0.48
1:E:353:SER:OG	1:E:391:VAL:HG23	2.13	0.48
1:E:482:ILE:C	1:E:484:PRO:N	2.71	0.48
1:F:117:HIS:HA	1:F:157:ARG:NH2	2.28	0.48
3:B:601:TME:H22	1:E:23:GLU:HG3	1.94	0.48
1:E:201:VAL:O	1:E:205:ILE:HB	2.13	0.48
1:E:557:GLN:HA	1:E:560:VAL:HB	1.96	0.48
1:B:358:LYS:HG3	1:B:395:ILE:HD13	1.94	0.48
1:A:279:THR:HG22	1:A:283:LEU:HD22	1.96	0.48
1:B:350:MET:HE3	1:B:384:ILE:HG23	1.95	0.48
1:B:517:THR:O	1:B:521:MET:HB2	2.13	0.48
1:E:156:PRO:HA	1:E:163:LYS:HZ1	1.78	0.48
1:F:405:LEU:C	1:F:407:ALA:H	2.22	0.48
1:B:504:CYS:HA	1:B:507:VAL:HG12	1.95	0.48
1:E:514:GLN:CD	1:E:551:LEU:O	2.57	0.48
1:F:129:VAL:O	1:F:133:LYS:HG2	2.13	0.48
1:A:83:PRO:O	1:A:86:VAL:HG12	2.14	0.48
1:A:385:ILE:HG22	1:A:429:LEU:HD11	1.96	0.48
1:A:25:VAL:HG22	1:A:28:ARG:NH2	2.28	0.48
1:A:409:VAL:HG22	1:A:446:LEU:HD11	1.96	0.48
1:E:408:ILE:O	1:E:412:ALA:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:492:ASP:HB2	1:B:493:PRO:HD2	1.96	0.47
1:E:229:VAL:HG11	1:E:269:GLU:CG	2.37	0.47
1:A:229:VAL:HG22	1:A:270:LEU:HD21	1.96	0.47
1:F:338:ASN:OD1	1:F:340:HIS:N	2.41	0.47
1:E:566:LYS:O	1:E:569:GLN:HG2	2.13	0.47
1:F:183:ARG:HG3	1:F:220:VAL:HG22	1.94	0.47
1:F:237:GLN:HA	1:F:240:LEU:HD23	1.95	0.47
1:B:93:LEU:HB3	1:B:112:LEU:CD1	2.34	0.47
1:F:144:ARG:NE	1:F:176:ASP:OD2	2.43	0.47
1:A:24:ASP:HB3	1:A:27:LEU:HD12	1.96	0.47
1:A:498:ARG:HH12	1:A:536:VAL:HG21	1.80	0.47
1:B:297:GLU:H	1:B:297:GLU:CD	2.23	0.47
1:B:408:ILE:O	1:B:412:ALA:HB2	2.15	0.47
1:E:346:ALA:HB1	1:E:384:ILE:HD12	1.95	0.47
1:E:439:PHE:O	1:E:443:LEU:HB2	2.15	0.47
1:F:385:ILE:HB	1:F:426:TYR:CE1	2.50	0.47
1:A:100:GLU:H	1:A:100:GLU:CD	2.23	0.47
1:B:271:GLN:NE2	1:B:312:ASN:O	2.48	0.47
1:B:557:GLN:O	1:B:560:VAL:N	2.47	0.47
1:E:44:VAL:HG11	1:E:81:GLY:HA2	1.97	0.47
1:E:358:LYS:HE2	1:E:395:ILE:HA	1.97	0.47
1:E:531:ASP:OD1	1:E:532:PRO:HD2	2.15	0.47
1:F:424:ILE:HD11	1:F:458:ILE:HG23	1.96	0.47
1:A:536:VAL:O	1:A:540:VAL:HG23	2.15	0.47
1:E:15:VAL:O	1:E:19:GLU:HG3	2.15	0.46
1:B:412:ALA:HA	1:B:450:TRP:HH2	1.80	0.46
1:F:398:ARG:NH1	1:F:402:GLN:HB2	2.30	0.46
1:A:248:LEU:HD11	1:A:270:LEU:HD13	1.97	0.46
2:C:115:VAL:O	2:C:118:ILE:HG12	2.16	0.46
1:E:322:ILE:HA	1:E:326:ILE:CG2	2.46	0.46
1:E:522:LEU:N	1:E:523:PRO:HD2	2.30	0.46
1:F:522:LEU:HA	1:F:525:VAL:HG22	1.97	0.46
1:B:322:ILE:HG21	1:B:356:LEU:HD21	1.97	0.46
1:B:411:LEU:HA	1:B:414:ASP:HB2	1.97	0.46
1:B:556:LEU:O	1:B:559:GLU:CB	2.64	0.46
1:B:180:MET:SD	1:B:180:MET:N	2.88	0.46
1:B:292:LYS:NZ	1:B:329:CYS:SG	2.89	0.46
1:F:257:TRP:HB3	1:F:260:ARG:HH21	1.81	0.46
1:B:549:PRO:HG2	1:B:550:ILE:H	1.80	0.46
1:E:197:GLU:HG2	1:E:200:ASN:HB2	1.98	0.46
1:E:564:LEU:HD23	1:E:583:LEU:HG	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:199:ASP:O	1:B:203:SER:OG	2.23	0.46
1:B:321:VAL:O	1:B:325:GLN:HB2	2.16	0.46
1:B:326:ILE:O	1:B:330:ILE:HG12	2.16	0.46
1:B:522:LEU:O	1:B:526:LEU:HG	2.15	0.46
1:E:358:LYS:HG3	1:E:395:ILE:HG22	1.97	0.46
1:F:536:VAL:O	1:F:540:VAL:HG23	2.15	0.46
1:E:9:SER:O	1:E:9:SER:OG	2.33	0.46
1:E:138:GLY:O	1:E:144:ARG:NH1	2.48	0.46
1:F:268:THR:HG23	1:F:305:LYS:HD3	1.97	0.46
1:F:296:ALA:HA	1:F:299:ARG:HE	1.80	0.46
1:F:204:GLU:C	1:F:207:PRO:HD2	2.41	0.46
1:F:359:ASP:OD1	1:F:359:ASP:N	2.48	0.46
1:F:537:ARG:O	1:F:540:VAL:HB	2.16	0.46
1:A:570:ASP:H	1:A:576:LYS:HE2	1.81	0.45
1:F:479:HIS:HA	1:F:483:ILE:HG12	1.99	0.45
1:A:249:ARG:NH1	1:A:282:ASP:OD2	2.48	0.45
1:B:314:SER:O	1:B:318:ARG:N	2.50	0.45
1:F:490:SER:N	1:F:501:THR:HG21	2.31	0.45
1:A:428:PRO:HD3	1:A:465:ASN:OD1	2.17	0.45
1:A:522:LEU:O	1:A:526:LEU:HG	2.15	0.45
1:E:495:TYR:HB3	1:E:533:VAL:HG21	1.98	0.45
1:F:506:ASN:OD1	1:F:543:SER:HB2	2.16	0.45
1:A:222:LEU:HA	1:A:225:VAL:HG22	1.97	0.45
1:A:316:ASP:OD1	1:A:317:CYS:N	2.50	0.45
1:B:551:LEU:HD12	1:B:551:LEU:H	1.77	0.45
1:E:183:ARG:O	1:E:223:LEU:HD11	2.15	0.45
1:F:370:LEU:CD2	1:F:403:SER:HB3	2.46	0.45
1:F:544:LEU:HD11	1:F:560:VAL:CG2	2.46	0.45
2:G:105:LYS:HD2	2:G:105:LYS:HA	1.69	0.45
1:A:140:TRP:HD1	1:A:142:THR:OG1	1.99	0.45
1:B:537:ARG:O	1:B:540:VAL:HB	2.17	0.45
1:B:556:LEU:O	1:B:559:GLU:N	2.50	0.45
1:A:145:THR:HG23	1:A:181:VAL:HG12	1.99	0.45
1:F:40:LEU:HD23	2:G:125:LEU:HD23	1.98	0.45
1:B:54:PHE:O	1:B:58:THR:OG1	2.20	0.45
1:B:440:ASP:O	1:B:441:GLU:C	2.60	0.45
1:B:558:SER:O	1:B:562:PRO:HD2	2.16	0.45
1:F:176:ASP:OD1	1:F:177:ASP:N	2.49	0.45
1:A:268:THR:O	1:A:272:LYS:HG2	2.17	0.45
1:B:388:LEU:HD23	1:B:388:LEU:HA	1.86	0.45
2:D:111:LYS:O	2:D:115:VAL:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:25:VAL:HG12	1:E:28:ARG:NH2	2.31	0.45
1:F:70:ALA:HB2	1:F:96:LEU:HD13	1.99	0.45
1:A:225:VAL:HG23	1:A:262:MET:HG2	1.99	0.45
1:B:124:LEU:HD21	1:B:154:CYS:HB2	1.98	0.45
1:B:206:ILE:HG12	1:B:243:LEU:HB3	2.00	0.45
1:F:568:THR:HG21	1:F:583:LEU:HD21	2.00	0.44
1:B:362:ILE:HD11	1:B:399:GLN:HG2	2.00	0.44
1:B:389:ASP:HA	1:B:392:ASN:HB3	1.99	0.44
1:E:551:LEU:CD2	1:E:551:LEU:H	2.30	0.44
1:A:405:LEU:C	1:A:407:ALA:H	2.25	0.44
1:B:204:GLU:C	1:B:207:PRO:HD2	2.42	0.44
1:B:331:LYS:HG3	1:B:368:LEU:HD11	1.98	0.44
1:E:179:PRO:HB3	1:E:217:GLN:HG3	1.98	0.44
1:E:267:PHE:C	1:E:269:GLU:N	2.73	0.44
1:F:490:SER:HB2	1:F:528:MET:SD	2.57	0.44
1:B:346:ALA:HA	1:B:372:GLN:HE22	1.83	0.44
1:E:535:ASN:HA	1:E:538:PHE:CE2	2.52	0.44
1:F:44:VAL:HG12	1:F:48:ARG:HH21	1.82	0.44
1:A:498:ARG:O	1:A:528:MET:CE	2.58	0.44
1:B:35:LEU:HB3	1:B:72:GLN:HG2	1.99	0.44
1:B:442:LYS:O	1:B:442:LYS:HG2	2.17	0.44
1:B:463:THR:HG22	1:B:504:CYS:HB3	2.00	0.44
2:C:114:LEU:HD23	2:C:114:LEU:HA	1.87	0.44
1:E:307:LYS:O	1:E:311:GLU:HG2	2.18	0.44
1:F:29:LEU:HG	1:F:33:LYS:HD2	1.99	0.44
1:F:91:PRO:O	1:F:94:GLU:HG2	2.17	0.44
1:F:463:THR:HG22	1:F:507:VAL:HG21	2.00	0.44
1:A:499:MET:HE3	1:A:535:ASN:HB3	2.00	0.44
2:C:96:ARG:NH2	2:D:101:GLN:OE1	2.51	0.44
2:D:89:GLU:HA	2:D:92:GLU:CG	2.48	0.44
1:E:483:ILE:N	1:E:484:PRO:HD2	2.32	0.44
1:F:186:ALA:HB2	1:F:212:LEU:HD23	2.00	0.44
1:F:555:THR:O	1:F:559:GLU:HG2	2.17	0.44
1:A:561:LYS:O	1:A:565:GLU:HG3	2.17	0.44
1:E:105:ARG:HD3	1:E:142:THR:HB	1.99	0.44
1:E:194:LYS:HA	1:E:234:LEU:HD21	1.99	0.44
1:E:479:HIS:HE2	1:E:520:HIS:CD2	2.36	0.44
2:H:93:LEU:O	2:H:96:ARG:HB3	2.18	0.44
1:A:349:ILE:HG23	1:A:369:PHE:CE1	2.53	0.43
1:B:45:GLU:HG2	1:B:46:ARG:N	2.33	0.43
1:E:46:ARG:HA	1:E:49:SER:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:370:LEU:HA	1:F:370:LEU:HD12	1.75	0.43
1:F:396:GLY:HA2	1:F:400:LEU:HD13	1.99	0.43
1:F:505:ILE:HG22	1:F:547:ILE:HD11	1.98	0.43
1:A:420:ARG:HH12	1:A:453:ASP:CG	2.26	0.43
1:E:300:ALA:HB2	1:E:341:VAL:HG22	2.01	0.43
1:E:544:LEU:HD21	1:E:560:VAL:CG1	2.47	0.43
1:F:129:VAL:HG13	1:F:166:LEU:HD11	2.01	0.43
1:E:424:ILE:HG22	1:E:450:TRP:CE3	2.53	0.43
1:E:551:LEU:C	1:E:551:LEU:CD2	2.84	0.43
2:G:108:GLU:O	2:G:112:LYS:HG3	2.18	0.43
1:B:447:CYS:O	1:B:450:TRP:HB2	2.18	0.43
1:B:557:GLN:C	1:B:559:GLU:N	2.74	0.43
1:E:103:VAL:HA	1:E:106:ASP:OD1	2.18	0.43
1:A:13:ILE:O	1:A:17:ILE:HG13	2.18	0.43
1:A:70:ALA:HB2	1:A:96:LEU:HD23	2.00	0.43
1:E:338:ASN:C	1:E:340:HIS:H	2.26	0.43
1:E:352:LEU:HB3	1:E:365:LEU:HD21	1.99	0.43
1:F:83:PRO:O	1:F:86:VAL:HG12	2.19	0.43
1:F:508:LEU:HB2	1:F:521:MET:HE1	2.01	0.43
1:B:15:VAL:O	1:B:19:GLU:HG3	2.18	0.43
1:B:72:GLN:O	1:B:75:THR:HG22	2.18	0.43
1:E:483:ILE:HG12	1:E:484:PRO:HD3	2.01	0.43
1:F:489:MET:HB3	1:F:501:THR:HG22	2.01	0.43
1:A:206:ILE:HD13	1:A:206:ILE:HA	1.88	0.43
1:A:522:LEU:HD12	1:A:522:LEU:HA	1.79	0.43
2:D:112:LYS:HB3	2:D:112:LYS:HE3	1.79	0.43
1:B:477:TRP:O	1:B:481:THR:HG22	2.18	0.43
1:E:331:LYS:HE3	1:E:331:LYS:HB2	1.81	0.43
1:F:353:SER:OG	1:F:354:PRO:HD3	2.18	0.43
1:F:380:VAL:O	1:F:384:ILE:HG13	2.18	0.43
1:E:48:ARG:HG2	1:E:80:VAL:HG22	1.99	0.43
1:E:310:CYS:HB3	1:E:322:ILE:HD11	2.01	0.43
1:F:19:GLU:OE1	2:H:117:ARG:NH1	2.47	0.43
1:F:414:ASP:OD1	1:F:415:ALA:N	2.52	0.43
1:F:540:VAL:O	1:F:544:LEU:HB2	2.19	0.43
1:B:197:GLU:H	1:B:197:GLU:CD	2.27	0.42
1:F:266:LYS:O	1:F:270:LEU:HG	2.19	0.42
1:F:428:PRO:HG3	1:F:465:ASN:OD1	2.19	0.42
1:F:161:ALA:O	1:F:165:GLU:HG3	2.19	0.42
1:A:327:LEU:HD21	1:A:364:HIS:HB3	2.00	0.42
1:A:330:ILE:HG21	1:A:349:ILE:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:362:ILE:HG13	1:B:395:ILE:HD12	2.02	0.42
2:C:109:ASN:HA	2:C:112:LYS:HG3	2.00	0.42
1:E:215:ASP:OD1	1:E:216:GLU:N	2.42	0.42
1:E:429:LEU:HD23	1:E:429:LEU:HA	1.85	0.42
1:F:206:ILE:HG12	1:F:243:LEU:HB3	2.00	0.42
1:E:385:ILE:HD12	1:E:430:LEU:HB3	2.02	0.42
1:E:459:ARG:O	1:E:463:THR:HG23	2.19	0.42
1:F:552:ASP:O	1:F:556:LEU:HB2	2.19	0.42
1:E:424:ILE:C	1:E:424:ILE:HD12	2.45	0.42
1:F:476:GLU:O	1:F:480:ALA:N	2.46	0.42
1:E:10:LEU:HD23	1:E:10:LEU:HA	1.68	0.42
1:E:424:ILE:CD1	1:E:461:ALA:HB1	2.50	0.42
1:F:105:ARG:HD3	1:F:142:THR:HB	2.00	0.42
1:A:155:TYR:O	1:A:158:VAL:HG12	2.20	0.42
1:A:291:MET:HE2	1:A:333:LEU:HD22	2.02	0.42
1:A:517:THR:HG23	1:A:521:MET:HE3	2.02	0.42
1:F:109:VAL:O	1:F:113:ARG:HG3	2.19	0.42
1:B:370:LEU:O	1:B:374:LYS:HD3	2.20	0.42
1:F:405:LEU:HD13	1:F:442:LYS:HG3	2.00	0.42
2:H:111:LYS:O	2:H:115:VAL:HG23	2.19	0.42
1:A:381:ARG:HD2	1:A:426:TYR:OH	2.19	0.42
1:F:333:LEU:HB3	1:F:345:LEU:HD22	2.01	0.42
1:B:384:ILE:HD13	1:B:384:ILE:HA	1.87	0.41
1:E:112:LEU:HD23	1:E:112:LEU:HA	1.88	0.41
1:F:330:ILE:HG23	1:F:345:LEU:HD21	2.02	0.41
1:A:385:ILE:HD12	1:A:426:TYR:CE1	2.55	0.41
1:F:225:VAL:HG13	1:F:262:MET:HG2	2.02	0.41
1:A:395:ILE:HD11	1:A:400:LEU:HD13	2.01	0.41
1:A:505:ILE:HG22	1:A:547:ILE:HD11	2.02	0.41
1:B:373:LEU:O	1:B:381:ARG:HG3	2.19	0.41
1:E:141:PHE:O	1:E:145:THR:HG23	2.20	0.41
1:E:239:ASP:O	1:E:243:LEU:HG	2.20	0.41
1:E:135:LEU:HB3	1:E:147:ALA:HB2	2.02	0.41
1:E:238:GLU:O	1:E:241:GLU:HG2	2.20	0.41
1:B:529:ALA:HA	1:B:540:VAL:HG21	2.03	0.41
1:E:330:ILE:HG23	1:E:345:LEU:HD21	2.02	0.41
1:F:278:ILE:HA	1:F:281:THR:HB	2.03	0.41
1:A:405:LEU:HD11	1:A:438:PHE:HE1	1.85	0.41
1:B:77:THR:HG21	1:B:118:GLU:HG3	2.03	0.41
2:G:104:ARG:HD2	2:H:103:GLU:OE2	2.21	0.41
1:A:36:SER:H	1:A:72:GLN:HE21	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:538:PHE:HB3	1:A:575:VAL:HG22	2.02	0.41
1:B:222:LEU:HD12	1:B:262:MET:HB2	2.03	0.41
1:F:245:MET:N	1:F:246:PRO:HD2	2.35	0.41
2:D:114:LEU:HD12	2:D:114:LEU:HA	1.91	0.41
1:E:198:LEU:HD11	1:E:235:LEU:HD23	2.02	0.41
2:G:126:LYS:HB3	2:G:126:LYS:HE3	1.94	0.41
1:A:129:VAL:N	1:A:130:PRO:HD2	2.36	0.41
1:A:338:ASN:OD1	1:A:340:HIS:N	2.43	0.41
1:B:158:VAL:O	1:B:163:LYS:HE3	2.21	0.41
1:E:148:CYS:SG	1:E:173:LEU:HD13	2.61	0.41
1:E:389:ASP:HA	1:E:392:ASN:HB3	2.02	0.41
1:F:96:LEU:HD23	1:F:96:LEU:HA	1.89	0.41
1:F:316:ASP:C	1:F:318:ARG:H	2.28	0.41
1:F:563:ILE:HD12	1:F:563:ILE:HA	1.73	0.41
1:A:287:PHE:O	1:A:291:MET:HG3	2.21	0.41
1:B:248:LEU:HD11	1:B:270:LEU:HD21	2.02	0.41
1:E:19:GLU:OE2	2:G:117:ARG:NH1	2.54	0.41
1:A:48:ARG:NH1	1:A:80:VAL:O	2.54	0.40
1:B:55:LEU:HD23	1:B:69:LEU:HD11	2.03	0.40
1:E:519:LYS:HE3	1:E:519:LYS:HB3	1.87	0.40
1:F:400:LEU:HB3	1:F:404:LEU:HD13	2.02	0.40
1:E:225:VAL:HG21	1:E:259:VAL:HG13	2.01	0.40
1:B:406:PRO:HA	1:B:409:VAL:HG22	2.04	0.40
1:A:350:MET:HB3	1:A:390:CYS:SG	2.61	0.40
1:B:254:ASP:OD1	1:B:255:LYS:N	2.55	0.40
1:E:161:ALA:O	1:E:165:GLU:HG3	2.21	0.40
1:E:398:ARG:HB2	1:E:438:PHE:CZ	2.57	0.40
1:E:533:VAL:HB	1:E:536:VAL:HG22	2.03	0.40
1:F:24:ASP:HB3	1:F:27:LEU:HB2	2.02	0.40
1:A:215:ASP:OD2	1:A:220:VAL:HG21	2.22	0.40
1:B:56:THR:HA	1:B:92:PRO:HB3	2.02	0.40
1:B:490:SER:O	1:B:490:SER:OG	2.39	0.40
1:E:436:VAL:HG22	1:E:473:PHE:CD1	2.57	0.40
1:E:446:LEU:HD23	1:E:446:LEU:HA	1.92	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	579/587 (99%)	544 (94%)	34 (6%)	1 (0%)	43	71
1	B	573/587 (98%)	545 (95%)	23 (4%)	5 (1%)	14	43
1	E	579/587 (99%)	545 (94%)	31 (5%)	3 (0%)	24	55
1	F	580/587 (99%)	528 (91%)	47 (8%)	5 (1%)	14	43
2	C	45/50 (90%)	44 (98%)	1 (2%)	0	100	100
2	D	44/50 (88%)	44 (100%)	0	0	100	100
2	G	44/50 (88%)	44 (100%)	0	0	100	100
2	H	44/50 (88%)	43 (98%)	1 (2%)	0	100	100
All	All	2488/2548 (98%)	2337 (94%)	137 (6%)	14 (1%)	21	51

All (14) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	444	ASN
1	B	553	ASN
1	E	441	GLU
1	E	553	ASN
1	A	396	GLY
1	B	548	GLY
1	B	441	GLU
1	F	317	CYS
1	F	366	LEU
1	E	483	ILE
1	F	425	GLU
1	F	8	ASP
1	B	493	PRO
1	F	493	PRO

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 X-ray entries followed by that with respect to entries of similar resolution.

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	507/513 (99%)	488 (96%)	19 (4%)	30	57
1	B	477/513 (93%)	465 (98%)	12 (2%)	42	64
1	E	506/513 (99%)	483 (96%)	23 (4%)	24	53
1	F	506/513 (99%)	491 (97%)	15 (3%)	36	61
2	C	39/43 (91%)	37 (95%)	2 (5%)	21	50
2	D	39/43 (91%)	36 (92%)	3 (8%)	12	38
2	G	37/43 (86%)	36 (97%)	1 (3%)	39	63
2	H	39/43 (91%)	39 (100%)	0	100	100
All	All	2150/2224 (97%)	2075 (96%)	75 (4%)	32	58

All (75) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	168	GLN
1	A	181	VAL
1	A	196	LEU
1	A	206	ILE
1	A	218	ASP
1	A	220	VAL
1	A	238	GLU
1	A	353	SER
1	A	385	ILE
1	A	397	ILE
1	A	404	LEU
1	A	434	LEU
1	A	455	VAL
1	A	466	LEU
1	A	486	VAL
1	A	527	ARG
1	A	550	ILE
1	A	559	GLU
1	A	571	GLN

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Mol	Chain	Res	Type
1	B	30	ASN
1	B	64	GLU
1	B	158	VAL
1	B	270	LEU
1	B	321	VAL
1	B	331	LYS
1	B	397	ILE
1	B	424	ILE
1	B	443	LEU
1	B	470	VAL
1	B	482	ILE
1	B	512	CYS
2	C	88	VAL
2	C	118	ILE
2	D	108	GLU
2	D	114	LEU
2	D	118	ILE
1	E	8	ASP
1	E	9	SER
1	E	25	VAL
1	E	27	LEU
1	E	30	ASN
1	E	56	THR
1	E	150	LEU
1	E	197	GLU
1	E	223	LEU
1	E	244	VAL
1	E	284	VAL
1	E	304	HIS
1	E	321	VAL
1	E	326	ILE
1	E	332	GLU
1	E	352	LEU
1	E	363	GLU
1	E	455	VAL
1	E	476	GLU
1	E	482	ILE
1	E	551	LEU
1	E	560	VAL
1	E	568	THR
1	F	7	PHE
1	F	10	LEU

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Mol	Chain	Res	Type
1	F	98	THR
1	F	206	ILE
1	F	322	ILE
1	F	323	MET
1	F	327	LEU
1	F	353	SER
1	F	365	LEU
1	F	384	ILE
1	F	385	ILE
1	F	388	LEU
1	F	507	VAL
1	F	559	GLU
1	F	563	ILE
2	G	89	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (20) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	87	HIS
1	A	119	HIS
1	A	127	HIS
1	A	288	GLN
1	A	289	ASN
1	A	444	ASN
1	A	553	ASN
1	B	250	GLN
1	B	372	GLN
1	B	444	ASN
1	B	535	ASN
1	E	360	ASN
1	E	465	ASN
1	E	514	GLN
1	E	580	GLN
1	F	127	HIS
1	F	230	ASN
1	F	289	ASN
1	F	553	ASN
2	G	109	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](#)

6 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	TME	F	601	-	2,2,2	0.03	0	1,1,1	0.04	0
3	TME	F	602	-	2,2,2	0.04	0	1,1,1	0.05	0
3	TME	C	201	-	2,2,2	0.01	0	1,1,1	0.15	0
3	TME	F	604	-	2,2,2	0.07	0	1,1,1	0.01	0
3	TME	F	603	-	2,2,2	0.07	0	1,1,1	0.02	0
3	TME	B	601	-	2,2,2	0.04	0	1,1,1	0.02	0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	601	TME	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	581/587 (98%)	-0.37	0 100 100	47, 84, 128, 173	0
1	B	577/587 (98%)	-0.17	10 (1%) 69 51	30, 83, 196, 266	0
1	E	581/587 (98%)	-0.33	1 (0%) 91 87	48, 87, 144, 237	0
1	F	582/587 (99%)	-0.13	9 (1%) 72 53	49, 111, 184, 286	0
2	C	47/50 (94%)	-0.18	2 (4%) 40 26	67, 92, 132, 162	0
2	D	46/50 (92%)	-0.39	0 100 100	61, 86, 122, 157	0
2	G	46/50 (92%)	-0.29	1 (2%) 62 44	50, 91, 137, 148	0
2	H	46/50 (92%)	-0.37	0 100 100	59, 87, 125, 160	0
All	All	2506/2548 (98%)	-0.25	23 (0%) 81 67	30, 90, 166, 286	0

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	552	ASP	7.6
1	B	553	ASN	4.0
1	F	368	LEU	3.6
1	F	492	ASP	3.5
2	C	85	ASP	3.3
1	B	551	LEU	3.2
1	B	528	MET	3.0
1	B	559	GLU	2.8
2	G	85	ASP	2.6
1	F	426	TYR	2.5
1	B	550	ILE	2.3
1	F	397	ILE	2.3
1	E	447	CYS	2.2
1	B	587	SER	2.2
1	F	369	PHE	2.2
1	B	7	PHE	2.1

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Mol	Chain	Res	Type	RSRZ
1	F	395	ILE	2.1
2	C	84	MET	2.1
1	F	372	GLN	2.1
1	F	493	PRO	2.1
1	F	391	VAL	2.0
1	B	554	SER	2.0
1	B	555	THR	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q<0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	TME	F	603	3/3	0.53	0.46	61,61,65,65	0
3	TME	F	602	3/3	0.75	0.57	69,69,72,72	0
3	TME	C	201	3/3	0.75	0.44	52,52,52,57	0
3	TME	F	604	3/3	0.76	0.26	44,44,54,55	0
3	TME	F	601	3/3	0.82	0.25	35,35,51,55	0
3	TME	B	601	3/3	0.85	0.43	50,50,54,65	0

6.5 Other polymers [i](#)

There are no such residues in this entry.