



wwPDB Geometry-Only Validation Summary Report ⓘ

Mar 9, 2026 – 09:24 AM UTC

PDB ID : 1NTL / pdb_00001ntl
Title : Model of mouse Crry-Ig determined by solution scattering, curve fitting and homology modelling
Authors : Aslam, M.; Guthridge, J.M.; Hack, B.K.; Quigg, R.J.; Holers, V.M.; Perkins, S.J.
Deposited on : 2003-01-30
Resolution : 30.00 Å(reported)

This is a wwPDB Geometry-Only Validation Summary 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
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

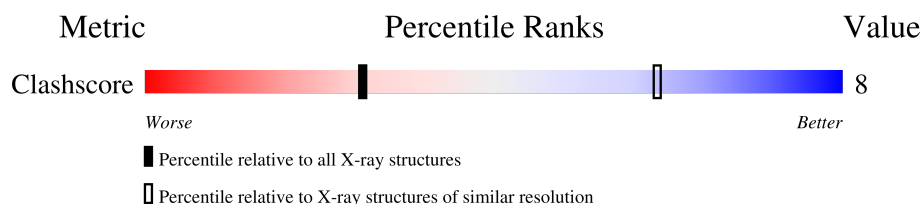
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION SCATTERING

The reported resolution of this entry is 30.00 Å.

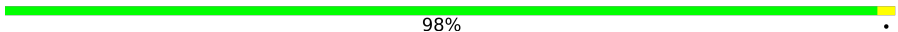
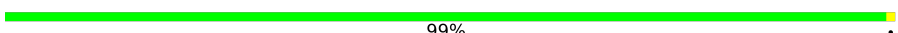
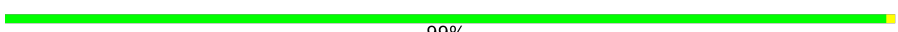
Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	190562	1002 (15.00-4.06)

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 $\leq 5\%$.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	1-A	551	 98% .
1	1-B	551	 99% .
1	2-A	551	 99% .
1	2-B	551	 99% .

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2204 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 Complement component receptor 1-like protein,Ig gamma-1 chain C region secreted form.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
1	1-A	551	Total C 551 551	0	0	551
1	2-A	551	Total C 551 551	0	0	551
1	1-B	551	Total C 551 551	0	0	551
1	2-B	551	Total C 551 551	0	0	551

There are 16 discrepancies between the modelled and reference sequences:

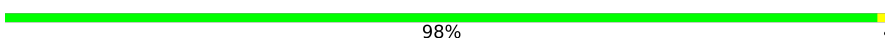
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	ASP	GLY	conflict	UNP Q64735
A	82	GLU	GLN	conflict	UNP Q64735
A	320	LEU	-	linker	UNP Q64735
A	321	ALA	-	linker	UNP Q64735
A	322	ASP	-	linker	UNP Q64735
A	323	PRO	-	linker	UNP Q64735
A	324	GLU	-	linker	UNP Q64735
A	452	LEU	VAL	conflict	UNP P01868
B	1	ASP	GLY	conflict	UNP Q64735
B	82	GLU	GLN	conflict	UNP Q64735
B	320	LEU	-	linker	UNP Q64735
B	321	ALA	-	linker	UNP Q64735
B	322	ASP	-	linker	UNP Q64735
B	323	PRO	-	linker	UNP Q64735
B	324	GLU	-	linker	UNP Q64735
B	452	LEU	VAL	conflict	UNP P01868

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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.

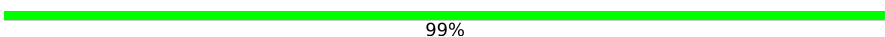
Note EDS was not executed.

- Molecule 1: Complement component receptor 1-like protein,Ig gamma-1 chain C region secreted form

Chain 1-A:  98%

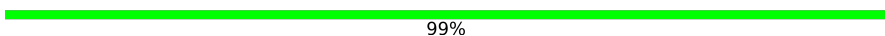


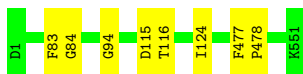
- Molecule 1: Complement component receptor 1-like protein,Ig gamma-1 chain C region secreted form

Chain 1-B:  99%

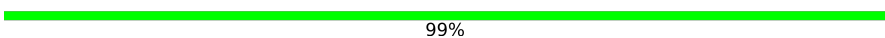


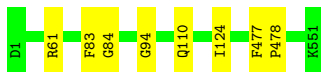
- Molecule 1: Complement component receptor 1-like protein,Ig gamma-1 chain C region secreted form

Chain 2-A:  99%



- Molecule 1: Complement component receptor 1-like protein,Ig gamma-1 chain C region secreted form

Chain 2-B:  99%



4 Model quality [i](#)

4.1 Standard geometry [i](#)

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

There are no protein, RNA or DNA chains available to summarize Z scores of covalent bonds and angles.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

4.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1-A	551	0	0	6	0
1	1-B	551	0	0	4	0
1	2-A	551	0	0	4	0
1	2-B	551	0	0	4	0
All	All	2204	0	0	18	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 8.

The worst 5 of 18 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:61:ARG:CA	1:B:110:GLN:CA	2.31	1.08
1:B:94:GLY:CA	1:B:124:ILE:CA	2.40	0.99
1:A:61:ARG:CA	1:A:110:GLN:CA	2.41	0.96
1:B:61:ARG:CA	1:B:110:GLN:CA	2.51	0.88
1:A:94:GLY:CA	1:A:124:ILE:CA	2.56	0.83

There are no symmetry-related clashes.

4.3 Torsion angles [i](#)

4.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

4.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

4.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

4.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

4.6 Ligand geometry [i](#)

There are no ligands in this entry.

4.7 Other polymers [i](#)

There are no such residues in this entry.

4.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.