

Resource Summary Report

Generated by [RRID](#) on Apr 10, 2025

[ProGlycProt](#)

RRID:SCR_000622

Type: Tool

Proper Citation

ProGlycProt (RRID:SCR_000622)

Resource Information

URL: <http://www.proglycprot.org/>

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Description: Manually curated, comprehensive repository of experimentally characterized bacterial glycoproteins and archaeal glycoproteins, generated from an exhaustive literature search. This is the focused effort to provide concise relevant information derived from rapidly expanding literature on prokaryotic glycoproteins, their glycosylating enzyme(s), glycosylation linked genes, and genomic context thereof, in a cross-referenced manner. The database is arranged into two sections namely, ProCGP and ProUGP. ProCGP is the main section containing characterized prokaryotic glycoproteins, defined as entries with at least one experimentally known glycosylated residue (glycosite). Whereas, ProUGP is the supplementary section, presenting uncharacterized prokaryotic glycoproteins, defined as entries with experimentally identified glycosylation but unidentified glycosites. The ProGlycProt has been developed with to aid and advance the emerging scientific interests in understanding the mechanisms, implications, and novelties of protein glycosylation in prokaryotes that include many pathogenic as well as economically important bacterial species. The website supports a dedicated structure gallery of homology models and crystal structures of characterized glycoproteins in addition to two new tools developed in view of emerging information about prokaryotic sequons (conserved sequences of amino acids around glycosites) that are never or rarely seen in eukaryotic glycoproteins. ProGlycProt provides an extensive compilation of experimentally identified glycosites (334) and glycoproteins (340) of prokaryotes that could serve as an information resource for research and technology applications in glycobiology. A general data update policy is once in three months. Existing entries are updated in real-time.

Abbreviations: ProGlycProt

Synonyms: Prokaryotic Glycoproteins, ProGlycProt - A Repository of Experimentally

Characterized GlycoProteins of Prokaryotes

Resource Type: data or information resource, database

Defining Citation: [PMID:22039152](#)

Keywords: glycoprotein, glycosite, glycosylation, coding gene, protein, glycosylation type, attached glycan, oligosaccharyl transferase, glycosyl transferase, glycobiology, glycosylating enzyme, glycosylation linked gene, crystal structure, homology, homology model, blast, predict, bacteria, archaea, image collection, structure, bio.tools

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Resource Name: ProGlycProt

Resource ID: SCR_000622

Alternate IDs: nlx_151583, biotools:proglycprot

Alternate URLs: <https://bio.tools/proglycprot>

Record Creation Time: 20220129T080202+0000

Record Last Update: 20250410T064626+0000

Ratings and Alerts

No rating or validation information has been found for ProGlycProt.

No alerts have been found for ProGlycProt.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#).

Chauhan JS, et al. (2012) GlycoPP: a webserver for prediction of N- and O-glycosites in prokaryotic protein sequences. PloS one, 7(7), e40155.