

# Resource Summary Report

Generated by [kravitz2](#) on Jul 30, 2026

## ?G prediction server

RRID:SCR\_018191

Type: Tool

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### Proper Citation

?G prediction server (RRID:SCR\_018191)

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### Resource Information

**URL:** <http://dgpred.cbr.su.se/>

**Proper Citation:** ?G prediction server (RRID:SCR\_018191)

**Description:** Web server to predict ?Gapp for membrane insertion of potential TM helix. Given amino acid sequence of putative transmembrane helix, server gives prediction of corresponding apparent free energy difference for insertion of this sequence into Endoplasmic Reticulum membrane by means of Sec61 translocon.

**Synonyms:** ?G prediction server v1.0

**Resource Type:** service resource, software resource, data access protocol, web service

**Keywords:** Amino acid sequence, putative transmembrane helix, free energy difference, sequence insertion, endoplasmic reticulum membrane, potential TM helix, predict energy difference, bio.tools

**Availability:** Free, Freely available

**Resource Name:** ?G prediction server

**Resource ID:** SCR\_018191

**Alternate IDs:** biotools:deltag\_prediction

**Alternate URLs:** <http://dgpred.cbr.su.se/index.php?p=TMPred>,  
[https://bio.tools/deltag\\_prediction](https://bio.tools/deltag_prediction)

**Record Creation Time:** 20220129T080339+0000

**Record Last Update:** 20260729T044438+0000

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### Ratings and Alerts

No rating or validation information has been found for ?G prediction server.

No alerts have been found for ?G prediction server.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 12 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [kravitz2](#) .

Chang J, et al. (2025) Endocytic recycling is central to circadian collagen fibrillogenesis and disrupted in fibrosis. eLife, 13.

Hsieh LT, et al. (2025) The Mycobacterium ulcerans toxin mycolactone causes destructive Sec61-dependent loss of the endothelial glycocalyx and vessel basement membrane to drive skin necrosis. eLife, 12.

Hsieh LT, et al. (2023) Mycolactone causes catastrophic Sec61-dependent loss of the endothelial glycocalyx and basement membrane: a new indirect mechanism driving tissue necrosis in Mycobacterium ulcerans infection. bioRxiv : the preprint server for biology.

Duart G, et al. (2022) Intra-Helical Salt Bridge Contribution to Membrane Protein Insertion. Journal of molecular biology, 434(5), 167467.

Roushar FJ, et al. (2022) Molecular basis for variations in the sensitivity of pathogenic rhodopsin variants to 9-cis-retinal. The Journal of biological chemistry, 298(8), 102266.

Chamness LM, et al. (2021) Molecular basis for the evolved instability of a human G-protein coupled receptor. Cell reports, 37(8), 110046.

O'Keefe S, et al. (2021) An alternative pathway for membrane protein biogenesis at the endoplasmic reticulum. Communications biology, 4(1), 828.

Huang H, et al. (2021) Disease-linked supertrafficking of a potassium channel. The Journal of biological chemistry, 296, 100423.

McKee AG, et al. (2021) Systematic profiling of temperature- and retinal-sensitive rhodopsin variants by deep mutational scanning. The Journal of biological chemistry, 297(6), 101359.

Duart G, et al. (2020) SARS-CoV-2 envelope protein topology in eukaryotic membranes. Open biology, 10(9), 200209.

Klein MC, et al. (2020) TRAM1 protein may support ER protein import by modulating the phospholipid bilayer near the lateral gate of the Sec61-channel. Channels (Austin, Tex.), 14(1), 28.

Harrington HR, et al. (2020) Cotranslational folding stimulates programmed ribosomal frameshifting in the alphavirus structural polyprotein. *The Journal of biological chemistry*, 295(20), 6798.