

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

PredSL

RRID:SCR_000626

Type: Tool

Proper Citation

PredSL (RRID:SCR_000626)

Resource Information

URL: <http://aias.biol.uoa.gr/PredSL/>

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Description: Web tool using an algorithm that exploits neural networks, Markov Chains, and HMMs for the prediction of the subcellular localization of proteins in eukaryotic cells from the N-terminal amino acid sequence and aims to classify proteins into five groups: Chloroplast, Thylakoid, Mitochondrion, Secreted proteins, and Other. As input PredSL requires the protein's sequence in fasta format.

Abbreviations: PredSL

Synonyms: PREDiction of Subcellular Location from the N-terminal Sequence

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

Defining Citation: [PMID:16689702](#)

Keywords: subcellular localization of proteins prediction, proteins in eukaryotic cells prediction, N-terminal amino acid sequence prediction, classify proteins,

Resource Name: PredSL

Resource ID: SCR_000626

Alternate IDs: nlx_151739

Old URLs: <http://hannibal.biol.uoa.gr/PredSL/>

Record Creation Time: 20220129T080202+0000

Record Last Update: 20260808T185722+0000

Ratings and Alerts

No rating or validation information has been found for PredSL.

No alerts have been found for PredSL.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Terpis KX, et al. (2025) Multiple plastid losses within photosynthetic stramenopiles revealed by comprehensive phylogenomics. *Current biology : CB*, 35(3), 483.

Chen N, et al. (2017) Cytosolic and Nuclear Co-localization of Betalain Biosynthetic Enzymes in Tobacco Suggests that Betalains Are Synthesized in the Cytoplasm and/or Nucleus of Betalainic Plant Cells. *Frontiers in plant science*, 8, 831.

Chen N, et al. (2017) Subcellular Localization of a Plant Catalase-Phenol Oxidase, AcCATPO, from Amaranthus and Identification of a Non-canonical Peroxisome Targeting Signal. *Frontiers in plant science*, 8, 1345.

Kr??liczewski J, et al. (2017) Chloroplast PetD protein: evidence for SRP/Alb3-dependent insertion into the thylakoid membrane. *BMC plant biology*, 17(1), 213.

Paventi G, et al. (2017) The occurrence of L-lactate dehydrogenase in the inner mitochondrial compartment of pig liver. *Biochemical and biophysical research communications*, 489(2), 255.