

Resource Summary Report

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SignalP

RRID:SCR_015644

Type: Tool

Proper Citation

SignalP (RRID:SCR_015644)

Resource Information

URL: <http://www.cbs.dtu.dk/services/SignalP/>

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Description: Web application for prediction of the presence and location of signal peptide cleavage sites in amino acid sequences from different organisms. The method incorporates a prediction of cleavage sites and a signal peptide/non-signal peptide prediction based on a combination of several artificial neural networks.

Resource Type: web application, software resource

Defining Citation: [PMID:28451972](#)

Keywords: prediction, signal peptide, cleavage site, amino acid, sequence, artificial neural network

Funding:

Availability: Freely available, Acknowledgment requested, Free, Available for download, Runs on Windows, Runs on Mac OS

Resource Name: SignalP

Resource ID: SCR_015644

Record Creation Time: 20220129T080326+0000

Record Last Update: 20250418T055429+0000

Ratings and Alerts

No rating or validation information has been found for SignalP.

No alerts have been found for SignalP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 8887 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Guillou MC, et al. (2025) Phytocytokine genes newly discovered in *Malus domestica* and their regulation in response to *Erwinia amylovora* and acibenzolar-S-methyl. The plant genome, 18(1), e20540.

Zhou X, et al. (2025) Transethnic analysis identifies SORL1 variants and haplotypes protective against Alzheimer's disease. Alzheimer's & dementia : the journal of the Alzheimer's Association, 21(1), e14214.

Wang J, et al. (2025) LC-AMP-I1, a novel venom-derived antimicrobial peptide from the wolf spider *Lycosa coelestis*. Antimicrobial agents and chemotherapy, 69(1), e0042424.

Espinheira RP, et al. (2025) Discovery and Characterization of Mannan-Specialized GH5 Endo-1,4-?-mannanases: a Strategy for Açai (*Euterpe oleracea* Mart.) Seeds Upgrading. Journal of agricultural and food chemistry, 73(1), 625.

Ayala-García P, et al. (2025) Extracellular Vesicle-Driven Crosstalk between Legume Plants and Rhizobia: The Peribacteroid Space of Symbiosomes as a Protein Trafficking Interface. Journal of proteome research, 24(1), 94.

Panwar D, et al. (2025) Transcriptional delineation of polysaccharide utilization loci in the human gut commensal *Segatella copri* DSM18205 and co-culture with exemplar *Bacteroides* species on dietary plant glycans. Applied and environmental microbiology, 91(1), e0175924.

Hsieh LC, et al. (2025) Transcriptomic and enzymatic analysis of peroxidase families at the early growth stage of halophyte ice plant (*Mesembryanthemum crystallinum* L.) under salt stress. Botanical studies, 66(1), 5.

Macdonald JFH, et al. (2025) Exploring *Tetraselmis chui* microbiomes-functional metagenomics for novel catalases and superoxide dismutases. Applied microbiology and biotechnology, 109(1), 6.

Vasistha P, et al. (2025) Effector proteins of *Funneliformis mosseae* BR221: unravelling

plant-fungal interactions through reference-based transcriptome analysis, in vitro validation, and protein-protein docking studies. BMC genomics, 26(1), 42.

Marotta J, et al. (2025) The BfmRS stress response protects *Acinetobacter baumannii* against defects in outer membrane lipoprotein biogenesis. Journal of bacteriology, 207(1), e0033224.

Magyar LB, et al. (2025) Pore-Forming Toxin-Like Proteins in the Anti-Parasitoid Immune Response of *Drosophila*. Journal of innate immunity, 17(1), 10.

Li Y, et al. (2025) PlasmidScope: a comprehensive plasmid database with rich annotations and online analytical tools. Nucleic acids research, 53(D1), D179.

Dong B, et al. (2025) Antibody Responses and the Vaccine Efficacy of Recombinant Glycosyltransferase and Nicastrin Against *Schistosoma japonicum*. Pathogens (Basel, Switzerland), 14(1).

Ou C, et al. (2025) Functional Characterization of the PoWHY1 Gene from *Platyclusus orientalis* and Its Role in Abiotic Stress Tolerance in Transgenic *Arabidopsis thaliana*. Plants (Basel, Switzerland), 14(2).

Jin F, et al. (2025) Suppression of Nodule Formation by RNAi Knock-Down of Bax inhibitor-1a in *Lotus japonicus*. Genes, 16(1).

Wang P, et al. (2025) NcSWP8, a New Spore Wall Protein, Interacts with Polar Tube Proteins in the Parasitic Microsporidia *Vairimorpha (Nosema) ceranae*. Microorganisms, 13(1).

Willemsen A, et al. (2025) Novel High-Quality *Amoeba* Genomes Reveal Widespread Codon Usage Mismatch Between Giant Viruses and Their Hosts. Genome biology and evolution, 17(1).

Warschkau D, et al. (2025) Proteomic identification of a *Toxoplasma gondii* sporozoite-specific antigen using HDAC3 inhibitor-treated tachyzoites as surrogate. FEMS microbes, 6, xtae034.

Song L, et al. (2025) Wheat Leaf Rust Effector Pt48115 Localized in the Chloroplasts and Suppressed Wheat Immunity. Journal of fungi (Basel, Switzerland), 11(1).

Kamiyama T, et al. (2025) Parasitoid wasp venoms degrade *Drosophila* imaginal discs for successful parasitism. Science advances, 11(5), eadq8771.