

Resource Summary Report

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Open Reading Frame Finder

RRID:SCR_016643

Type: Tool

Proper Citation

Open Reading Frame Finder (RRID:SCR_016643)

Resource Information

URL: <https://www.ncbi.nlm.nih.gov/orffinder>

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Description: Software tool to search for open reading frames (ORFs) in the DNA sequence. The program returns the range of each ORF, along with its protein translation. Used to search newly sequenced DNA for potential protein encoding segments, verify predicted protein. Limited to the subrange of the query sequence up to 50 kb long.

Abbreviations: ORF finder

Synonyms: Open Reading Frame finder, Open Reading Frame Finder

Resource Type: sequence analysis software, production service resource, service resource, software resource, data analysis software, analysis service resource, software application, data processing software

Keywords: search, open, reading, frame, DNA, sequence, ORF, protein, translation, data, encoding, segment, verify

Availability: Free, Available for download, Freely available

Resource Name: Open Reading Frame Finder

Resource ID: SCR_016643

Record Creation Time: 20220129T080331+0000

Record Last Update: 20260820T054830+0000

Ratings and Alerts

No rating or validation information has been found for Open Reading Frame Finder.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1955 mentions in open access literature.

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

Plötner M, et al. (2026) New insights into the molecular basis of gametogenesis in the hybridogenetic water frog *Pelophylax esculentus*. *Scientific reports*, 16(1), 5012.

Chen S, et al. (2026) Metatranscriptomics profiling reveals rodent- and shrew-borne viral diversity and evolutionary relationships in Guangzhou, China. *Virologica Sinica*, 41(1), 35.

Liu H, et al. (2026) Long non-coding RNA RsLNC2361 positively regulate anthocyanin accumulation in radish. *BMC plant biology*, 26(1).

Ranjbari S, et al. (2026) Antimicrobial and antibiofilm activity of a novel bacteriophage endolysin (LysSW21) against methicillin-resistant *Staphylococcus aureus*. *BMC microbiology*, 26(1).

Pang T, et al. (2026) A beneficial endornavirus enhances the fitness of the phytopathogenic fungus *Rhizotonia solani*. *mBio*, 17(5), e0016626.

Liu Z, et al. (2026) Mycoviruses confer hypovirulence but enhance antifungal volatile organic compound production in a phytopathogenic fungus. *Proceedings of the National Academy of Sciences of the United States of America*, 123(15), e2526822123.

Pasha AVK, et al. (2026) Immunoinformatics-Based Multi-Epitope Vaccine Targeting *Helicobacter Pylori*. *Cancer reports (Hoboken, N.J.)*, 9(1), e70441.

Vassilieff H, et al. (2026) Endogenous viral elements trace the ancient origins and early evolution of the Caulimoviridae. *PLoS pathogens*, 22(6), e1014340.

Wujdi A, et al. (2026) Mitogenomic Insights into the Hampala Barb (*Hampala macrolepidota*) from Sumatra, Indonesia: Characterization, Phylogenetic Placement, and Genetic Diversity. *Biomolecules*, 16(2).

Shi J, et al. (2026) Transcriptome Analysis and Identification of Chemosensory Genes in *Leguminivora glycinivorella*. *Biology*, 15(6).

Li S, et al. (2026) Transcriptomic and proteomic analyses of the immune responses of C-type lectin from *Conogethes punctiferalis* against fungal infection. *Frontiers in immunology*, 17, 1774776.

Pan J, et al. (2026) Biocontrol potential and molecular basis of predation in a marine raptorial ciliate. *The ISME journal*, 20(1).

Gao Y, et al. (2026) A Thermo-Sensitive Molecular Switch: Pyrexia-1 Dynamically Regulates Low-Temperature Adaptation in *Chrysoperla nipponensis*. *International journal of molecular sciences*, 27(5).

Zhang Z, et al. (2026) Identification of BvUGT90 Family Members and Analysis of Drought Resistance Gene Screening in Sugar Beet. *Plants (Basel, Switzerland)*, 15(5).

Xue S, et al. (2026) CircRSU1 Activates the hnRNPA1/HIF-1 α /CD24 Signaling Axis, Promoting Stemness Features of Hepatocellular Carcinoma. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(22), e22424.

Yin JD, et al. (2026) Phylogenetic Relationships of Plant Bugs Based on Mitochondrial Genomes (Heteroptera: Miridae). *Ecology and evolution*, 16(2), e73035.

Lou M, et al. (2026) Characterization of the chicken insulin receptor gene: Genomic organization and alternative promoter regulation. *Poultry science*, 105(8), 107064.

Luo Q, et al. (2026) *Blumea balsamifera* BbHDA6 regulates abiotic stress responses and flavonoid biosynthesis in transgenic plants. *Frontiers in plant science*, 17, 1811058.

Carvalho JL, et al. (2026) Escaping Constraints to Innovate: Maternal Neofunctionalization in a *HoxB4* Duplicate. *Journal of experimental zoology. Part B, Molecular and developmental evolution*, 346(2), 141.

Burlandy FM, et al. (2026) Rotavirus Outbreak Traced in Clinical, Environmental, and Food Matrices: Whole Genomic Characterization of an Equine-like G3P[8] Genotype. *Food and environmental virology*, 18(1), 7.