

Resource Summary Report

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Coding Potential Calculator

RRID:SCR_002764

Type: Tool

Proper Citation

Coding Potential Calculator (RRID:SCR_002764)

Resource Information

URL: <http://cpc.cbi.pku.edu.cn/>

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Description: A Support Vector Machine-based classifier to assesses the protein-coding potential of a transcript based on six biologically meaningful sequence features. CPC can discriminate coding from noncoding transcripts with high accuracy and speed. In addition to predicting the coding potential of the input transcripts, the CPC web server also graphically displays detailed sequence features and additional annotations of the transcript that may facilitate users' further investigation. The coding potential calculator tool reads FASTA data format as input.

Abbreviations: CPC

Resource Type: analysis service resource, data analysis service, production service resource, service resource, software resource

Defining Citation: [PMID:17631615](#)

Keywords: fasta, transcript, protein coding, coding potential, bio.tools

Availability: Free, Freely available

Resource Name: Coding Potential Calculator

Resource ID: SCR_002764

Alternate IDs: biotools:cpc, rid_000106

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

Record Creation Time: 20220129T080215+0000

Record Last Update: 20260905T132453+0000

Ratings and Alerts

No rating or validation information has been found for Coding Potential Calculator.

No alerts have been found for Coding Potential Calculator.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 225 mentions in open access literature.

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

Ju Q, et al. (2026) Coke Oven Emission Exposure Triggers Malignant Transformation of Lung Epithelial Cells by SFTA1P-Dependent Alteration of Acetyl-CoA Metabolism. *Environment & health* (Washington, D.C.), 4(4), 754.

Yu L, et al. (2026) The long non-coding RNA CidecAS regulates hepatocyte lipid metabolism via the alpha-1 subunit of Na⁺/K⁺-ATPase. *Frontiers in nutrition*, 13, 1809132.

Guo Q, et al. (2025) A near-complete genome assembly of the bearded dragon *Pogona vitticeps* provides insights into the origin of *Pogona* sex chromosomes. *GigaScience*, 14.

Zhang J, et al. (2025) Long Non-Coding RNA IGFRIL Couples with PTBP1 to Destabilize IGFBP3 mRNA to Promote the IGF1R-AKT-mTOR Axis and Hepatocellular Carcinoma. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(39), e07676.

Xia SW, et al. (2025) Identification and characterization of long non-coding RNA (lncRNA) in wild and semi-wild cucumbers. *BMC plant biology*, 25(1), 748.

Chen S, et al. (2025) YTHDC1 phase separation drives the nuclear export of m6A-modified lncNONMMUT062668.2 through the transport complex SRSF3-ALYREF-XPO5 to aggravate pulmonary fibrosis. *Cell death & disease*, 16(1), 279.

Duan Y, et al. (2025) Integrated transcriptomics and proteomics revealed that exogenous spermidine modulated signal transduction and carbohydrate metabolic pathways to enhance heat tolerance of lettuce. *BMC plant biology*, 25(1), 754.

Wu Q, et al. (2025) Regulatory roles of noncoding RNAs in oil palm response to cold stress. *Frontiers in plant science*, 16, 1685230.

Li Y, et al. (2025) LINC00870 promotes imatinib resistance in gastrointestinal stromal tumor via inhibiting PIGR glycosylation modifications. *Heliyon*, 11(3), e41934.

Faulkes CG, et al. (2024) Naked mole-rats have distinctive cardiometabolic and genetic adaptations to their underground low-oxygen lifestyles. *Nature communications*, 15(1), 2204.

Xiong W, et al. (2024) The mitochondrial long non-coding RNA IncMtloop regulates mitochondrial transcription and suppresses Alzheimer's disease. *The EMBO journal*, 43(23), 6001.

Zhang H, et al. (2024) The haplotype-resolved genome assembly of autotetraploid rhubarb *Rheum officinale* provides insights into its genome evolution and massive accumulation of anthraquinones. *Plant communications*, 5(1), 100677.

Tian H, et al. (2024) Current understanding of functional peptides encoded by lncRNA in cancer. *Cancer cell international*, 24(1), 252.

Chen X, et al. (2024) Transcriptome reveals the roles and potential mechanisms of lncRNAs in the regulation of albendazole resistance in *Haemonchus contortus*. *BMC genomics*, 25(1), 188.

Zhao K, et al. (2024) LncRNA ZNF674-AS1 drives cell growth and inhibits cisplatin-induced pyroptosis via up-regulating CA9 in neuroblastoma. *Cell death & disease*, 15(1), 5.

Xiao L, et al. (2024) Whole-transcriptome sequencing revealed the ceRNA regulatory network during the proliferation and differentiation of goose myoblast. *Poultry science*, 103(11), 104173.

Huang X, et al. (2024) The long noncoding RNA loc107053557 acts as a gga-miR-3530-5p sponge to suppress the replication of vvIBDV through regulating STAT1 expression. *Virulence*, 15(1), 2333237.

Zhang W, et al. (2024) Signaling pathways and regulatory networks in quail skeletal muscle development: insights from whole transcriptome sequencing. *Poultry science*, 103(5), 103603.

Xiong H, et al. (2024) Whole transcriptome analysis revealed the regulatory network and related pathways of non-coding RNA regulating ovarian atrophy in broody hens. *Frontiers in veterinary science*, 11, 1399776.

Shen J, et al. (2024) N6-methyladenosine (m6A)-circHECA from secondary hair follicle of cashmere goats: identification, regulatory network and expression regulated potentially by methylation of its host gene promoter. *Animal bioscience*, 37(12), 2066.