Resource Summary Report

Generated by PRECISE-TBI on Sep 9, 2026

CoRAL - Classification of RNAs by Analysis of Length

RRID:SCR_010828
Type: Tool

Proper Citation

CoRAL - Classification of RNAs by Analysis of Length (RRID:SCR_010828)

Resource Information

URL: http://wanglab.pcbi.upenn.edu/coral/

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Description: A machine learning software package that can predict the precursor class of small RNAs present in a high-throughput RNA-sequencing dataset. In addition to classification, it also produces information about the features that are most important for discriminating different populations of small non-coding RNAs.

Abbreviations: CoRAL

Synonyms: Classification of RNAs by Analysis of Length

Resource Type: software resource

Defining Citation: PMID:23700308

Availability: Acknowledgement requested

Resource Name: CoRAL - Classification of RNAs by Analysis of Length

Resource ID: SCR_010828

Alternate IDs: OMICS_00372

Record Creation Time: 20220129T080301+0000

Record Last Update: 20260905T132647+0000

Ratings and Alerts

No rating or validation information has been found for CoRAL - Classification of RNAs by Analysis of Length.

No alerts have been found for CoRAL - Classification of RNAs by Analysis of Length.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Smith GA, et al. (2026) Murine osteosarcoma recapitulates the driver landscape and genomic complexity of osteosarcoma evolution in humans. bioRxiv : the preprint server for biology.

Zhang J, et al. (2026) Androgen activity in the male embryonic hindbrain drives lethal PFA ependymoma. Nature, 652(8110), 763.

Kraft K, et al. (2025) Enhancer activation from transposable elements in extrachromosomal DNA. Nature cell biology, 27(11), 1914.

Chowdhury B, et al. (2025) Reconstructing the three-dimensional architecture of extrachromosomal DNA with ec3D. Nature communications, 17(1), 894.

Zhu K, et al. (2024) CoRAL accurately resolves extrachromosomal DNA genome structures with long-read sequencing. Genome research, 34(9), 1344.

Jessa S, et al. (2024) FOXR2 targets LHX6+/DLX+ neural lineages to drive CNS neuroblastoma. Cancer research.

Zhu K, et al. (2024) CoRAL accurately resolves extrachromosomal DNA genome structures with long-read sequencing. bioRxiv : the preprint server for biology.

Loganathan T, et al. (2023) Non-coding RNAs in human health and disease: potential function as biomarkers and therapeutic targets. Functional & integrative genomics, 23(1), 33.

Han Y, et al. (2016) Integrating Epigenomics into the Understanding of Biomedical Insight. Bioinformatics and biology insights, 10, 267.

Ryvkin P, et al. (2014) Using machine learning and high-throughput RNA sequencing to classify the precursors of small non-coding RNAs. Methods (San Diego, Calif.), 67(1), 28.

Leung YY, et al. (2013) CoRAL: predicting non-coding RNAs from small RNA-sequencing data. Nucleic acids research, 41(14), e137.