

Resource Summary Report

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tRNA Analysis of eXpression

RRID:SCR_025486

Type: Tool

Proper Citation

tRNA Analysis of eXpression (RRID:SCR_025486)

Resource Information

URL: <https://trna.ucsc.edu/tRAX/>

Proper Citation: tRNA Analysis of eXpression (RRID:SCR_025486)

Description: Software package built for in-depth analyses of tRNA-derived small RNAs (tDRs), mature tRNAs, and inference of RNA modifications from high-throughput small RNA sequencing data. Used for integrating analysis of tRNAs, tRNA-derived small RNAs, and tRNA modifications.

Abbreviations: tRAX

Synonyms: tRNA Analysis of eXpression (tRAX)

Resource Type: data processing software, software application, data analysis software, software resource

Defining Citation: [DOI:10.1101/2022.07.02.498565](https://doi.org/10.1101/2022.07.02.498565), [PMID:26214130](https://pubmed.ncbi.nlm.nih.gov/36214130/)

Keywords: tRNA-derived small RNAs, mature tRNAs, inference of RNA modifications, high-throughput small RNA sequencing data,

Funding: NHGRI R01HG006753

Availability: Free, Available for download, Freely available,

Resource Name: tRNA Analysis of eXpression

Resource ID: SCR_025486

Record Creation Time: 20240716T053232+0000

Record Last Update: 20260731T043210+0000

Ratings and Alerts

No rating or validation information has been found for tRNA Analysis of eXpression.

No alerts have been found for tRNA Analysis of eXpression.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Ando D, et al. (2025) Decoding Codon Bias: The Role of tRNA Modifications in Tissue-Specific Translation. International journal of molecular sciences, 26(2).

Ranches G, et al. (2025) Differentially expressed ncRNAs as key regulators in infection of human bronchial epithelial cells by the SARS-CoV-2 Delta variant. Molecular therapy. Nucleic acids, 36(2), 102559.

Costiniti V, et al. (2025) Serine tRNAs compete to regulate the mRNA translation of serine-sensitive codons. Science advances, 11(46), eady4521.