

Resource Summary Report

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RSEM

RRID:SCR_013027

Type: Tool

Proper Citation

RSEM (RRID:SCR_013027)

Resource Information

URL: <http://deweylab.biostat.wisc.edu/rsem/>

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Description: Software package for quantifying gene and isoform abundances from single end or paired end RNA Seq data. Accurate transcript quantification from RNA Seq data with or without reference genome. Used for quantifying transcript abundances from RNA Seq data.

Abbreviations: RSEM

Synonyms: RSEM, RNA-Seq by Expectation-Maximization, RSEM-v1.3.0

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

Defining Citation: [PMID:21816040](#), [DOI:10.1186/1471-2105-12-323](#)

Keywords: quantifying, gene, isoform, abundance, single, end, paired, RNA seq, data, transcript, reference, genome, bio.tools

Funding: Dr. James Thomson MacArthur Professorship ;
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NHGRI R01 HG005232

Availability: Free, Available for download, Freely available

Resource Name: RSEM

Resource ID: SCR_013027

Alternate IDs: OMICS_01287, biotools:rsem

Alternate URLs: <https://github.com/deweylab/RSEM/releases>, <https://bio.tools/rsem>, <https://sources.debian.org/src/rsem/>

License: GNU GPL

Record Creation Time: 20220129T080313+0000

Record Last Update: 20260903T235153+0000

Ratings and Alerts

No rating or validation information has been found for RSEM.

No alerts have been found for RSEM.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4478 mentions in open access literature.

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

Yoshida K, et al. (2026) DHODH regulates trophoblast fusion via IFITM-reduced plasma membrane fluidity: Implications for hypertensive disorders of pregnancy. *iScience*, 29(6), 116163.

Gou X, et al. (2023) Kinome reprogramming is a targetable vulnerability in ESR1 fusion-driven breast cancer. *Cancer research*.

Philip VM, et al. (2023) Gene expression genetics of the striatum of Diversity Outbred mice. *bioRxiv : the preprint server for biology*.

Booher WC, et al. (2023) Hippocampal RNA sequencing in mice selectively bred for high and low activity. *Genes, brain, and behavior*, 22(2), e12832.

Han T, et al. (2023) Cancer Cell Resistance to IFN?? Can Occur via Enhanced Double-Strand Break Repair Pathway Activity. *Cancer immunology research*, 11(3), 381.

Castilla-Ibeas A, et al. (2023) Failure of digit tip regeneration in the absence of Lmx1b suggests Lmx1b functions disparate from dorsoventral polarity. *Cell reports*, 42(1), 111975.

Loukas I, et al. (2023) Selective advantage of epigenetically disrupted cancer cells via phenotypic inertia. *Cancer cell*, 41(1), 70.

Steinert ND, et al. (2023) A novel method for visualizing in-vivo rates of protein degradation provides insight into how TRIM28 regulates muscle size. *iScience*, 26(4),

106526.

Liang D, et al. (2023) Ferroptosis surveillance independent of GPX4 and differentially regulated by sex hormones. *Cell*, 186(13), 2748.

Rinella SP, et al. (2023) Combinatorial fedratinib and venetoclax treatment is effective on human B cell acute lymphoblastic leukemia with high Flt3 expression. *bioRxiv : the preprint server for biology*.

Ma L, et al. (2023) Diploid and tetraploid genomes of *Acorus* and the evolution of monocots. *Nature communications*, 14(1), 3661.

Zhang ZY, et al. (2023) Promotion of axon regeneration and protection on injured retinal ganglion cells by rCXCL2. *Inflammation and regeneration*, 43(1), 31.

Zhang YJ, et al. (2023) Mitochondrial genome of *Cordyceps blackwelliae*: organization, transcription, and evolutionary insights into *Cordyceps*. *IMA fungus*, 14(1), 13.

Shigemizu D, et al. (2023) Classification and deep-learning-based prediction of Alzheimer disease subtypes by using genomic data. *Translational psychiatry*, 13(1), 232.

Emond R, et al. (2023) Cell facilitation promotes growth and survival under drug pressure in breast cancer. *Nature communications*, 14(1), 3851.

Zhang R, et al. (2023) UDP-glucose pyrophosphorylase as a target for regulating carbon flux distribution and antioxidant capacity in *Phaeodactylum tricornutum*. *Communications biology*, 6(1), 750.

Lu S, et al. (2023) A longitudinal transcriptomic analysis from unfed to post-engorgement midguts of adult female *Ixodes scapularis*. *Scientific reports*, 13(1), 11360.

Huo Y, et al. (2023) Combined Transcriptome and Proteome Analysis Provides Insights into Petaloidy in Pomegranate. *Plants (Basel, Switzerland)*, 12(13).

Liou RH, et al. (2023) The efficient induction of human retinal ganglion-like cells provides a platform for studying optic neuropathies. *Cellular and molecular life sciences : CMLS*, 80(8), 239.

Kelly TR, et al. (2023) Tropical rock lobster (*Panulirus ornatus*) uses chemoreception via the antennular lateral flagellum to identify conspecific ecdysis. *Scientific reports*, 13(1), 12409.