

# Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](http://FDI Lab - SciCrunch.org) on Apr 1, 2025

## RSeQC

RRID:SCR\_005275

Type: Tool

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### Proper Citation

RSeQC (RRID:SCR\_005275)

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### Resource Information

**URL:** <http://code.google.com/p/rseqc/>

**Proper Citation:** RSeQC (RRID:SCR\_005275)

**Description:** Software package to comprehensively evaluate different aspects of RNA-seq experiments, such as sequence quality, GC bias, polymerase chain reaction bias, nucleotide composition bias, sequencing depth, strand specificity, coverage uniformity and read distribution over the genome structure. RSeQC takes both SAM and BAM files as input, which can be produced by most RNA-seq mapping tools as well as BED files, which are widely used for gene models.

**Abbreviations:** RSeQC

**Synonyms:** rseqc - RNA-seq quality control package

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

**Defining Citation:** [PMID:22743226](https://pubmed.ncbi.nlm.nih.gov/22743226/)

**Keywords:** python, qc, ma-seq, high throughput sequencing

**Funding:**

**Availability:** GNU General Public License v3

**Resource Name:** RSeQC

**Resource ID:** SCR\_005275

**Alternate IDs:** OMICS\_01235

**Record Creation Time:** 20220129T080229+0000

**Record Last Update:** 20250401T060353+0000

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## Ratings and Alerts

No rating or validation information has been found for RSeQC.

No alerts have been found for RSeQC.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 1108 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](#).

Lou L, et al. (2025) Periostin-mediated NOTCH1 activation between tumor cells and HSCs crosstalk promotes liver metastasis of small cell lung cancer. *Journal of experimental & clinical cancer research* : CR, 44(1), 6.

Vinkel J, et al. (2025) Blood from septic patients with necrotising soft tissue infection treated with hyperbaric oxygen reveal different gene expression patterns compared to standard treatment. *BMC medical genomics*, 18(1), 12.

Geng J, et al. (2025) Role of nasal microbiota in regulating host anti-influenza immunity in dogs. *Microbiome*, 13(1), 27.

Pimentel MF, et al. (2025) Dual RNA-seq reveals transcriptome changes during *Fusarium virguliforme*-*Trichoderma afroharzianum* interactions. *PloS one*, 20(1), e0310850.

Li Y, et al. (2025) Epitranscriptome profiles reveal participation of the RNA methyltransferase gene *OsMTA1* in rice seed germination and salt stress response. *BMC plant biology*, 25(1), 115.

Legebeke J, et al. (2025) Uplift of genetic diagnosis of rare respiratory disease using airway epithelium transcriptome analysis. *Human molecular genetics*, 34(2), 148.

Shi Y, et al. (2025) Acquired resistance to PD-L1 inhibition enhances a type I IFN-regulated secretory program in tumors. *EMBO reports*, 26(2), 521.

Di Michele M, et al. (2025) E4F1 coordinates pyruvate metabolism and the activity of the elongator complex to ensure translation fidelity during brain development. *Nature communications*, 16(1), 67.

Drobek A, et al. (2025) The TLR7/9 adaptors TASL and TASL2 mediate IRF5-dependent antiviral responses and autoimmunity in mouse. *Nature communications*, 16(1), 967.

Jeyagaran A, et al. (2025) ECM Proteins Nidogen-1 and Decorin Restore Functionality of Human Islets of Langerhans upon Hypoxic Conditions. *Advanced healthcare materials*, 14(2), e2403017.

Yang J, et al. (2025) MARTRE family proteins negatively regulate CCR4-NOT activity to protect poly(A) tail length and promote translation of maternal mRNA. *Nature communications*, 16(1), 248.

Yang J, et al. (2025) Transcriptomic Profiling and Tumor Microenvironment Classification Reveal Unique and Dynamic Immune Biology in HIV-Associated Kaposi Sarcoma. *Cells*, 14(2).

Zhang H, et al. (2025) Heat shock factor ZmHsf17 positively regulates phosphatidic acid phosphohydrolase ZmPAH1 and enhances maize thermotolerance. *Journal of experimental botany*, 76(2), 493.

Zhang J, et al. (2025) Cpeb1 remodels cell type-specific translational program to promote fear extinction. *Science advances*, 11(2), eadr8687.

Nath SR, et al. (2025) Unraveling calcium dysregulation and autoimmunity in immune mediated rippling muscle disease. *Acta neuropathologica communications*, 13(1), 11.

Koponen L, et al. (2025) A deep intronic PHEX variant associated with X-linked hypophosphatemia in a Finnish family. *JBMR plus*, 9(2), ziae169.

Alcala N, et al. (2024) Multi-omic dataset of patient-derived tumor organoids of neuroendocrine neoplasms. *GigaScience*, 13.

Wang D, et al. (2024) Gain-of-Function p53 Mutation Acts as a Genetic Switch for TGF $\beta$  Signaling-Induced Epithelial-to-Mesenchymal Transition in Intestinal Tumors. *Cancer research*, 84(1), 56.

Tiwari A, et al. (2024) Sirtuin3 ensures the metabolic plasticity of neurotransmission during glucose deprivation. *The Journal of cell biology*, 223(1).

Shui YB, et al. (2024) SDPR expression in human trabecular meshwork and its potential role in racial disparities of glaucoma. *Scientific reports*, 14(1), 10258.