

Resource Summary Report

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riboWaltz

RRID:SCR_016948

Type: Tool

Proper Citation

riboWaltz (RRID:SCR_016948)

Resource Information

URL: <https://github.com/LabTranslationalArchitectomics/RiboWaltz>

Proper Citation: riboWaltz (RRID:SCR_016948)

Description: Software R package for calculation of optimal P-site offsets, diagnostic analysis and visual inspection of ribosome profiling data. Works for read alignments based on transcript coordinates.

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

Defining Citation: [PMID:30102689](#)

Keywords: calculation, optimal, Psite, offset, diagnostic, analysis, visual, inspection, ribosome, profiling, data, read, alignment, transcript, coordinate

Funding: Autonomous Province of Trento ;
Wellcome Trust

Availability: Free, Available for download, Freely available

Resource Name: riboWaltz

Resource ID: SCR_016948

License: MIT License

Record Creation Time: 20220129T080332+0000

Record Last Update: 20250421T054142+0000

Ratings and Alerts

No rating or validation information has been found for riboWaltz.

No alerts have been found for riboWaltz.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Yin L, et al. (2025) METTL16 is Required for Meiotic Sex Chromosome Inactivation and DSB Formation and Recombination during Male Meiosis. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(3), e2406332.

Shi D, et al. (2024) Pseudouridine synthase 1 regulates erythropoiesis via transfer RNAs pseudouridylation and cytoplasmic translation. *iScience*, 27(3), 109265.

Smirnova AM, et al. (2024) Stem-loop-induced ribosome queuing in the uORF2/ATF4 overlap fine-tunes stress-induced human ATF4 translational control. *Cell reports*, 43(4), 113976.

Ding Z, et al. (2024) Exploring the potential of large language model-based chatbots in challenges of ribosome profiling data analysis: a review. *Briefings in bioinformatics*, 26(1).

Howard GC, et al. (2024) Ribosome subunit attrition and activation of the p53-MDM4 axis dominate the response of MLL-rearranged cancer cells to WDR5 WIN site inhibition. *eLife*, 12.

Müller MBD, et al. (2023) Mechanisms of readthrough mitigation reveal principles of GCN1-mediated translational quality control. *Cell*, 186(15), 3227.

Froberg JE, et al. (2023) Development of nanoRibo-seq enables study of regulated translation by cortical neuron subtypes, showing uORF translation in synaptic-axonal genes. *Cell reports*, 42(9), 112995.

Krokowski D, et al. (2022) Stress-induced perturbations in intracellular amino acids reprogram mRNA translation in osmoadaptation independently of the ISR. *Cell reports*, 40(3), 111092.

Allen GE, et al. (2021) Not4 and Not5 modulate translation elongation by Rps7A ubiquitination, Rli1 moonlighting, and condensates that exclude eIF5A. *Cell reports*, 36(9),

109633.

Lautier O, et al. (2021) Co-translational assembly and localized translation of nucleoporins in nuclear pore complex biogenesis. *Molecular cell*, 81(11), 2417.

Ruiz Cuevas MV, et al. (2021) Most non-canonical proteins uniquely populate the proteome or immunopeptidome. *Cell reports*, 34(10), 108815.

Gong C, et al. (2021) Sequential inverse dysregulation of the RNA helicases DDX3X and DDX3Y facilitates MYC-driven lymphomagenesis. *Molecular cell*, 81(19), 4059.

Terrey M, et al. (2021) Defects in translation-dependent quality control pathways lead to convergent molecular and neurodevelopmental pathology. *eLife*, 10.

Xing J, et al. (2020) LncRNA-Encoded Peptide: Functions and Predicting Methods. *Frontiers in oncology*, 10, 622294.

Babaian A, et al. (2020) Loss of m1acp3? Ribosomal RNA Modification Is a Major Feature of Cancer. *Cell reports*, 31(5), 107611.

Zaccara S, et al. (2020) A Unified Model for the Function of YTHDF Proteins in Regulating m6A-Modified mRNA. *Cell*, 181(7), 1582.

Terrey M, et al. (2020) GTPBP1 resolves paused ribosomes to maintain neuronal homeostasis. *eLife*, 9.

Kapur M, et al. (2020) Expression of the Neuronal tRNA n-Tr20 Regulates Synaptic Transmission and Seizure Susceptibility. *Neuron*, 108(1), 193.

Sapkota D, et al. (2019) Cell-Type-Specific Profiling of Alternative Translation Identifies Regulated Protein Isoform Variation in the Mouse Brain. *Cell reports*, 26(3), 594.

Imami K, et al. (2018) Phosphorylation of the Ribosomal Protein RPL12/uL11 Affects Translation during Mitosis. *Molecular cell*, 72(1), 84.