

Resource Summary Report

Generated by [NIF](#) on Apr 16, 2025

[miRBase](#)

RRID:SCR_003152

Type: Tool

Proper Citation

miRBase (RRID:SCR_003152)

Resource Information

URL: <http://www.mirbase.org/>

Proper Citation: miRBase (RRID:SCR_003152)

Description: Central online repository for microRNA nomenclature, sequence data, annotation and target prediction. Collection of published miRNA sequences and annotation.

Abbreviations: miRBase

Synonyms: microRNA database

Resource Type: database, data or information resource, service resource, data repository, naming service, storage service resource

Defining Citation: [PMID:24275495](#), [PMID:21037258](#), [PMID:20205188](#), [PMID:17991681](#), [PMID:16957372](#), [PMID:16381832](#), [PMID:14681370](#)

Keywords: gene, annotation, hairpin, microRNA, nomenclature, rna, sequence, target, transcript, unique name, mirna registry, genetics, bio.tools, FASEB list

Funding: BBSRC ;
Wellcome Trust Sanger Institute

Availability: Free, Available for download, Freely available

Resource Name: miRBase

Resource ID: SCR_003152

Alternate IDs: SCR_017497, nif-0000-03134, biotools:mirbase

Alternate URLs: <http://microrna.sanger.ac.uk/>, <https://bio.tools/mirbase>

Record Creation Time: 20220129T080217+0000

Record Last Update: 20250416T063319+0000

Ratings and Alerts

No rating or validation information has been found for miRBase.

No alerts have been found for miRBase.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 9203 mentions in open access literature.

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

Zhang S, et al. (2025) Integrative mRNA and miRNA Expression Profiles from Developing Zebrafish Head Highlight Brain-Preference Genes and Regulatory Networks. *Molecular neurobiology*, 62(2), 2148.

Tiwari H, et al. (2025) In Silico Hybridization and Molecular Dynamics Simulations for the Identification of Candidate Human MicroRNAs for Inhibition of Virulent Proteins' Expression in *Staphylococcus aureus*. *Journal of cellular biochemistry*, 126(1), e30684.

Hirohata R, et al. (2025) Prediction of Pathologic Complete Response in Esophageal Squamous Cell Carcinoma Using Preoperative Serum Small Ribonucleic Acid Obtained After Neoadjuvant Chemoradiotherapy. *Annals of surgical oncology*, 32(1), 570.

Shi L, et al. (2025) Upregulated let-7 expression in the follicular fluid of patients with endometriomas leads to dysfunction of granulosa cells through targeting of IGF1R. *Human reproduction (Oxford, England)*, 40(1), 119.

Tokunaga T, et al. (2025) Role of long non-coding RNA leucine-rich repeat containing 75 A-antisense RNA1 in the invasion and progression of renal cell carcinoma. *Oncology reports*, 53(1).

Sun Z, et al. (2025) hsa_circ_0001508 as a new gene that may promote breast cancer progression via the miR-505/3p/HMGB1, VGLL3 axis. *Molecular and clinical oncology*,

22(2), 13.

Zhang S, et al. (2025) CD63-high macrophage-derived exosomal miR-6876-5p promotes hepatocellular carcinoma stemness via PTEN/Akt-mediated EMT pathway. *Hepatology communications*, 9(1).

Baqi A, et al. (2025) Computational identification and experimental validation of novel *Saccharum officinarum* microRNAs along with their targets through RT-PCR approach. *Plant signaling & behavior*, 20(1), 2452334.

Lim B, et al. (2025) Single-cell transcriptomics of bronchoalveolar lavage during PRRSV infection with different virulence. *Nature communications*, 16(1), 1112.

Wu J, et al. (2025) Whole-transcriptome analysis reveals the profiles and roles of coding and non-coding RNAs during hair follicle cycling in Rex rabbits. *BMC genomics*, 26(1), 74.

Sulaiman F, et al. (2025) Characterizing Circulating microRNA Signatures of Type 2 Diabetes Subtypes. *International journal of molecular sciences*, 26(2).

Tong X, et al. (2025) Genome-Wide Characterization of Extrachromosomal Circular DNA in the Midgut of BmCPV-Infected Silkworms and Its Potential Role in Antiviral Responses. *International journal of molecular sciences*, 26(2).

Huang Z, et al. (2025) Impact of Maternal BPA Exposure during Pregnancy on Obesity in Male Offspring: A Mechanistic Mouse Study of Adipose-Derived Exosomal miRNA. *Environmental health perspectives*, 133(1), 17011.

Wang S, et al. (2025) Diagnostic Value of Glycosylated Extracellular Vesicle microRNAs in Gastric Cancer. *Cancer management and research*, 17, 145.

Fahim SA, et al. (2025) Interaction Between Malat1 and miR-499-5p Regulates Meis1 Expression and Function with a Net Impact on Cell Proliferation. *Cells*, 14(2).

Zhao N, et al. (2025) TSC complex decrease the expression of mTOR by regulated miR-199b-3p. *Scientific reports*, 15(1), 1892.

Yu F, et al. (2025) Sinomenine attenuates uremia vascular calcification by miR-143-5p. *Scientific reports*, 15(1), 1798.

Mellado S, et al. (2025) The emerging role of mesenchymal stem cell-derived extracellular vesicles to ameliorate hippocampal NLRP3 inflammation induced by binge-like ethanol treatment in adolescence. *Neural regeneration research*, 20(4), 1153.

Khan W, et al. (2025) Identification of differentially expressed non-coding RNAs in the plasma of women with preterm birth. *RNA biology*, 22(1), 1.

Xie MQ, et al. (2025) Regulatory networks of mRNAs and miRNAs involved in the immune response of diamondback moth, *Plutella xylostella* to fungal infection. *BMC genomics*, 26(1), 15.