

Resource Summary Report

Generated by [RRID](#) on Aug 5, 2026

[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: storage service resource, naming service, data repository, service resource, database, data or information 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, r3d100010670, nif-0000-03134, biotools:mirbase

Alternate URLs: <http://microrna.sanger.ac.uk/>, <https://bio.tools/mirbase>, <https://doi.org/10.17616/R3VG8D>

Record Creation Time: 20220129T080217+0000

Record Last Update: 20260805T044050+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 9669 mentions in open access literature.

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

Kärkkäinen M, et al. (2026) Integrative omics approaches to uncover liquid-based cancer-predicting biomarkers in Lynch syndrome. *International journal of cancer*, 158(1), 243.

Leban T, et al. (2026) Multiomics Data Synthesis of FAM83H in Amelogenesis Imperfecta. *International dental journal*, 76(1), 109293.

Mu L, et al. (2026) DiCleavePlus: A Transformer-Based Model to Detect Human Dicer Cleavage Sites Within Cleavage Patterns. *Genes to cells : devoted to molecular & cellular mechanisms*, 31(1), e70074.

Guo X, et al. (2026) HBx hijacks the miR-19a-3p/BAMBI/TGF- β 1 axis to impair the anti-tumour activity of CD4⁺ T cells in diffuse large B-cell lymphoma. *Clinical and translational medicine*, 16(1), e70578.

Ma T, et al. (2026) CircAASS alleviates renal injury and fibrosis by regulating mitochondrial homeostasis in tubular epithelial cells. *Autophagy*, 22(1), 182.

Wang Y, et al. (2026) METTL3 inhibits LINC00312 to suppress osteoporosis progression in a YTHDF2-dependent manner. *International journal of molecular medicine*, 57(1).

Mokhtari A, et al. (2025) Using multiomic integration to improve blood biomarkers of major depressive disorder: a case-control study. *EBioMedicine*, 113, 105569.

Mendes EA, et al. (2025) RUNX2 inhibition disrupts a PAX3::FOXO1-RUNX2 feed-forward loop and dismantles oncogenic gene programs in fusion-positive rhabdomyosarcoma. *bioRxiv : the preprint server for biology*.

Wang T, et al. (2025) Multiomics analysis provides insights into musk secretion in muskrat and musk deer. *GigaScience*, 14.

- Ling X, et al. (2025) miRNA-34a-5p inhibits chicken myoblasts proliferation and differentiation via NOTCH1 inhibition. *Poultry science*, 104(3), 104895.
- Wang L, et al. (2025) Electroacupuncture alleviates functional constipation by upregulating host-derived miR-205-5p to modulate gut microbiota and tryptophan metabolism. *Frontiers in microbiology*, 16, 1517018.
- Pétille F, et al. (2025) Sex-Specific Methylomic and Transcriptomic Responses of the Avian Pineal Gland to Unpredictable Illumination Patterns. *Journal of pineal research*, 77(2), e70040.
- Tan H, et al. (2025) Cross-kingdom regulation of gene expression in giant pandas via plant-derived miRNA. *Frontiers in veterinary science*, 12, 1509698.
- Elmayan T, et al. (2025) Arabidopsis SGS3 is recruited to chromatin by CHR11 to select RNA that initiate siRNA production. *Nature communications*, 16(1), 2978.
- Bai Y, et al. (2025) A 24-nt miR9560 modulates the transporter gene BrpHMA2 expression in *Brassica parachinensis*. *The plant genome*, 18(1), e70013.
- 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.
- Zhang X, et al. (2025) Melatonin-pretreated mesenchymal stem cell-derived exosomes alleviate cavernous fibrosis in a rat model of nerve injury-induced erectile dysfunction via miR-145-5p/TGF- β /Smad axis. *Stem cell research & therapy*, 16(1), 96.
- Cervera-Seco L, et al. (2025) Characterization of the Regulatory Landscape in Crohn's Disease Reveals microRNA-Associated Alterations that Shape Anti-TNF Response. *Inflammatory bowel diseases*, 31(7), 1980.
- Payne D, et al. (2025) miR398 targets a Cu²⁺-containing Selenium Binding Protein (SBP) in rice and the phylogenetic analysis of the miR398-SBP module in plants. *BMC plant biology*, 25(1), 167.
- Luo M, et al. (2025) The interplay between epigenomic and transcriptomic variation during ecotype divergence in stickleback. *BMC biology*, 23(1), 70.