

Resource Summary Report

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[miRGator](#)

RRID:SCR_007793

Type: Tool

Proper Citation

miRGator (RRID:SCR_007793)

Resource Information

URL: <http://mirgator.kobic.re.kr/>

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Description: Database of compiled, public, deep sequencing miRNA data and several novel tools to facilitate exploration of massive data. The miR-seq browser supports users to examine short read alignment with the secondary structure and read count information available in concurrent windows. Features such as sequence editing, sorting, ordering, import and export of user data are of great utility for studying iso-miRs, miRNA editing and modifications. miRNA target relation is essential for understanding miRNA function. Coexpression analysis of miRNA and target mRNAs, based on miRNA-seq and RNA-seq data from the same sample, is visualized in the heat-map and network views where users can investigate the inverse correlation of gene expression and target relations, compiled from various databases of predicted and validated targets.

Abbreviations: miRGator

Synonyms: miRGator: an integrated system for functional annotation of microRNAs

Resource Type: data or information resource, database

Defining Citation: [PMID:23193297](#), [PMID:21062822](#), [PMID:17942429](#)

Keywords: genome, functional annotation, microRNA, expression profile, mir-seq, miRNA target relation, expression correlation, FASEB list

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Resource Name: miRGator

Resource ID: SCR_007793

Alternate IDs: nif-0000-03136, OMICS_00363

Alternate URLs: <http://203.255.191.19/MEXWebApp/>,
<http://genome.ewha.ac.kr/miRGator/miRGator.html>

Record Creation Time: 20220129T080243+0000

Record Last Update: 20260811T043316+0000

Ratings and Alerts

No rating or validation information has been found for miRGator.

No alerts have been found for miRGator.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 55 mentions in open access literature.

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

Aytatli A, et al. (2026) Combination of hsa-miR-21-3p/ sTNF-RI/ IL12-p40 /CCL25 serves as a promising panel of diagnostic biomarkers for distinguishing malignant from benign nodules in papillary thyroid cancer. *Endocrine*, 91(1).

Wang Y, et al. (2025) hAMSCs regulate EMT in the progression of experimental pulmonary fibrosis through delivering miR-181a-5p targeting TGFBR1. *Stem cell research & therapy*, 16(1), 2.

Valentini S, et al. (2025) Targeting the MDM2-MDM4 interaction interface reveals an otherwise therapeutically active wild-type p53 in colorectal cancer. *Molecular oncology*, 19(8), 2412.

Liu RC, et al. (2025) Charged multivesicular body protein 4C promotes the progression of cervical cancer through the HPV E6/miR-543 axis. *Oncology letters*, 29(6), 275.

Miao PD, et al. (2024) Celestial Insights: Unraveling the Role of miR-3682-3p in Hepatocellular Carcinoma. *Clinical and translational gastroenterology*, 15(4), e00690.

Piccinno E, et al. (2024) Identification of a Novel miR-195-5p/PNN Axis in Colorectal Cancer. *International journal of molecular sciences*, 25(11).

Liu YC, et al. (2024) The disruption of NEAT1-miR-125b-5p-SLC1A5 cascade defines the oncogenicity and differential immune profile in head and neck squamous cell carcinoma. *Cell death discovery*, 10(1), 392.

- Shan B, et al. (2024) miR-184, a downregulated ovary-elevated miRNA transcriptionally activated by SREBF2, exerts anti-apoptotic properties in ovarian granulosa cells through inducing SMAD3 expression. *Cell death & disease*, 15(12), 892.
- Zhang R, et al. (2023) Abnormal expressions of PURPL, miR-363-3p and ADAM10 predicted poor prognosis for patients with ovarian serous cystadenocarcinoma. *Journal of Cancer*, 14(15), 2908.
- Loganathan T, et al. (2023) Non-coding RNAs in human health and disease: potential function as biomarkers and therapeutic targets. *Functional & integrative genomics*, 23(1), 33.
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- Chen X, et al. (2022) Long Non-Coding RNA AL139385.1 as a Novel Prognostic Biomarker in Lung Adenocarcinoma. *Frontiers in oncology*, 12, 905871.
- Lu X, et al. (2022) MicroRNA-320b Modulates Cholesterol Efflux and Atherosclerosis. *Journal of atherosclerosis and thrombosis*, 29(2), 200.
- Enwald M, et al. (2021) Human Prostate Tissue MicroRNAs and Their Predicted Target Pathways Linked to Prostate Cancer Risk Factors. *Cancers*, 13(14).
- Cai Y, et al. (2021) circ-NOL10 regulated by MTDH/CASC3 inhibits breast cancer progression and metastasis via multiple miRNAs and PDCD4. *Molecular therapy. Nucleic acids*, 26, 773.
- Shi T, et al. (2021) Aspirin inhibits cholangiocarcinoma cell proliferation via cell cycle arrest in vitro and in vivo. *International journal of oncology*, 58(2), 199.
- Bagheri M, et al. (2021) Diagnostic Value of Plasma miR-145 and miR-185 as Targeting of the APRIL Oncogene in the B-cell Chronic Lymphocytic Leukemia. *Asian Pacific journal of cancer prevention : APJCP*, 22(1), 111.
- Pan X, et al. (2021) MicroRNA-1182 and let-7a exert synergistic inhibition on invasion, migration and autophagy of cholangiocarcinoma cells through down-regulation of NUA1. *Cancer cell international*, 21(1), 161.
- Yavropoulou MP, et al. (2021) Circulating microRNAs Related to Bone Metabolism in HIV-Associated Bone Loss. *Biomedicines*, 9(4).
- Challagundla N, et al. (2021) microRNAs (miR 9, 124, 155 and 224) transdifferentiate mouse macrophages to neurons. *Experimental cell research*, 402(1), 112563.