

Resource Summary Report

Generated by PRECISE-TBI on Sep 17, 2026

miRGen

RRID:SCR_007796

Type: Tool

Proper Citation

miRGen (RRID:SCR_007796)

Resource Information

URL: http://carolina.imis.athena-innovation.gr/diana_tools/web/index.php?r=mirgenv3

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Description: An integrated database of positional relationships between animal miRNAs and genomic annotation sets and animal miRNA targets according to combinations of widely used target prediction programs. miRGen has three connected interfaces which query this data. The Genomics interface allows the user to explore where whole-genome collections of miRNAs are located with respect to UCSC genome browser annotation sets such as Known Genes, Refseq Genes, Genscan predicted genes, CpG islands, and pseudogenes. The Targets interface provides access to unions and intersections of four widely used target prediction programs, and experimentally supported targets from TarBase. The Clusters interface provides predicted miRNA clusters at any given inter-miRNA distance, and provides specific functional information on the targets of miRNAs within each cluster.

Synonyms: miRGen

Resource Type: data or information resource, database

Keywords: FASEB list

Resource Name: miRGen

Resource ID: SCR_007796

Alternate IDs: nif-0000-03137

Old URLs: <http://www.diana.pcbi.upenn.edu/miRGen>

Record Creation Time: 20220129T080243+0000

Record Last Update: 20260912T200153+0000

Ratings and Alerts

No rating or validation information has been found for miRGen.

No alerts have been found for miRGen.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 51 mentions in open access literature.

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

Shah K, et al. (2025) LncRNA SLNCR phenocopies the E2F1 DNA binding site to promote melanoma progression. Cell reports, 44(5), 115608.

Wu M, et al. (2023) Exosomal IRF1-loaded rat adipose-derived stem cell sheet contributes to wound healing in the diabetic foot ulcers. Molecular medicine (Cambridge, Mass.), 29(1), 60.

Li L, et al. (2021) The mutual regulatory loop between TPTEP1 and miR-1303 in leukemogenesis of acute myeloid leukemia. Cancer cell international, 21(1), 260.

Wang S, et al. (2021) Computational annotation of miRNA transcription start sites. Briefings in bioinformatics, 22(1), 380.

Perdikopanis N, et al. (2021) DIANA-miRGen v4: indexing promoters and regulators for more than 1500 microRNAs. Nucleic acids research, 49(D1), D151.

Bai WY, et al. (2021) Integrative analysis of genomic and epigenomic data reveal underlying superenhancer-mediated microRNA regulatory network for human bone mineral density. Human molecular genetics, 30(22), 2177.

Norioun H, et al. (2020) Hsa-miR-27a-3p overexpression in men with nonobstructive azoospermia: A case-control study. International journal of reproductive biomedicine, 18(11), 961.

Khurana P, et al. (2020) HAHmiR.DB: a server platform for high-altitude human miRNA-gene coregulatory networks and associated regulatory circuits. Database : the journal of biological databases and curation, 2020.

Xiong H, et al. (2020) FKBP-related ncRNA-mRNA axis in breast cancer. Genomics, 112(6), 4595.

Liu X, et al. (2020) Effects of gE/gI deletions on the miRNA expression of PRV-infected PK-15 cells. Virus genes, 56(4), 461.

Li Y, et al. (2019) MicroRNA-200b is downregulated and suppresses metastasis by targeting LAMA4 in renal cell carcinoma. *EBioMedicine*, 44, 439.

Wang M, et al. (2019) miR-302a inhibits human HepG2 and SMMC-7721 cells proliferation and promotes apoptosis by targeting MAP3K2 and PBX3. *Scientific reports*, 9(1), 2032.

Mohamad Yusof A, et al. (2018) Integrated Characterization of MicroRNA and mRNA Transcriptome in Papillary Thyroid Carcinoma. *Frontiers in endocrinology*, 9, 158.

Wang LH, et al. (2018) Downregulation of miR-29b targets DNMT3b to suppress cellular apoptosis and enhance proliferation in pancreatic cancer. *Molecular medicine reports*, 17(2), 2113.

Avansini SH, et al. (2018) Dysregulation of NEUROG2 plays a key role in focal cortical dysplasia. *Annals of neurology*, 83(3), 623.

Singh NP, et al. (2018) Diethylstilbestrol (DES) induces autophagy in thymocytes by regulating Beclin-1 expression through epigenetic modulation. *Toxicology*, 410, 49.

Liu X, et al. (2018) MicroRNA transcriptome analysis of porcine vital organ responses to immunosuppressive porcine cytomegalovirus infection. *Virology journal*, 15(1), 16.

Ji Q, et al. (2018) Cryptotanshinone Protects Cartilage against Developing Osteoarthritis through the miR-106a-5p/GLIS3 Axis. *Molecular therapy. Nucleic acids*, 11, 170.

Wei WF, et al. (2017) MicroRNA-221-3p, a TWIST2 target, promotes cervical cancer metastasis by directly targeting THBS2. *Cell death & disease*, 8(12), 3220.

Pan S, et al. (2017) MicroRNA-130b attenuates dexamethasone-induced increase of lipid accumulation in porcine preadipocytes by suppressing PPAR- γ expression. *Oncotarget*, 8(50), 87928.