

Resource Summary Report

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TargetScan

RRID:SCR_010845

Type: Tool

Proper Citation

TargetScan (RRID:SCR_010845)

Resource Information

URL: <http://targetscan.org/>

Proper Citation: TargetScan (RRID:SCR_010845)

Description: Web tool to predict biological targets of miRNAs by searching for presence of conserved 8mer, 7mer and 6mer sites that match seed region of each miRNA. Nonconserved sites are also predicted and sites with mismatches in seed region that are compensated by conserved 3' pairing. Used to search for predicted microRNA targets in mammals.

Synonyms: TargetScanFly

Resource Type: analysis service resource, data access protocol, data analysis service, production service resource, service resource, software resource, web service

Defining Citation: [PMID:26267216](#)

Keywords: predict, biological, target, miRNA, conserved, 8mer, 7mer, site, match seed, region, nonconserved, mismatched, pair

Funding: Howard Hughes Medical Institute ;
NIGMS GM067031;
NSF Graduate Research Fellowship

Availability: Free, Freely available

Resource Name: TargetScan

Resource ID: SCR_010845

Alternate IDs: OMICS_00420

Alternate URLs: http://www.targetscan.org/vert_71/

Record Creation Time: 20220129T080301+0000

Record Last Update: 20260829T182339+0000

Ratings and Alerts

No rating or validation information has been found for TargetScan.

No alerts have been found for TargetScan.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 11785 mentions in open access literature.

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

Kapoor S, et al. (2026) In vivo AGO-APP for cell-type- and compartment-specific miRNA profiling in the mouse brain. Cell reports methods, 6(1), 101267.

Cando LF, et al. (2026) Targeting microRNA let-7b-5p-mediated aberrant androgen receptor signaling for prevention of hormone receptor-negative breast cancer. NPJ breast cancer.

Yu X, et al. (2026) miR-339-5p impairs myogenic proliferation and differentiation by repressing contractile gene programs in skeletal muscle. American journal of physiology. Cell physiology, 331(2), C425.

Sekiguchi N, et al. (2026)

Circ72309 modulates gemcitabine metabolism and gemcitabine sensitivity in pancreatic cancer: Serum Circ72309 levels as a potential predictor of treatment response

. International journal of oncology, 68(3).

Jeng AC, et al. (2026) Elevated zygotic let-7f-5p alters developmental trajectories and sex-specific somatic growth. iScience, 29(6), 116115.

Pasbola K, et al. (2026) Transcriptome profiling reveals the role of XIST/miR-335-5p regulatory axis as a crucial mediator of chemoresistance in esophageal cancer by influencing EMT and Ferroptosis. Functional & integrative genomics, 26(1).

Zeng C, et al. (2026) Anti-Inflammatory and Protective Role of tiRNA-Glu-TTC-003 in Pediatric Sepsis Via TREM2/TLR4 Signaling Modulation. Inflammation, 49(1), 71.

Feng L, et al. (2026) MiR-378 mediates the ovariectomy induced bone loss via exaggerating osteoclastogenesis and transforming growth factor beta impaired osteogenesis. Genes & diseases, 13(1), 101754.

Li N, et al. (2026) Red Blood Cell-Derived Exosomal miR-93-5p Promotes Lung Cancer Progression through PTEN Suppression. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(3), e11940.

Luan C, et al. (2026) High palmitate induces ferroptosis in RIN-m5f cells via miR-3584-5p-mediated suppression of AQP7. *Scientific reports*, 16(1).

Li J, et al. (2026) Mining Potential Therapeutic Targets for T Cell Exhaustion in Osteoarthritis by Integrating Mendelian Randomization and Single-Cell Sequencing. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(2), e71483.

Li J, et al. (2026) The Positive Feedback Loop of Hypoxia-Inducible Factor-1 ? /miR-295/Factor Inhibiting Hypoxia-Inducible Factor-1 in Hyperuricemic Nephropathy. *Kidney360*, 7(4), 741.

Liu M, et al. (2026) Dysregulation of miR-642a-5p is involved in the regulation of pancreatic ?-cell function via Mef2d. *Endocrine journal*, 73(3), 461.

Wang X, et al. (2026) miR-214-3p exacerbates mitochondrial dysfunction in parkinson's disease: a multi-omics and mechanistic study. *Experimental brain research*, 244(4).

Wang J, et al. (2026) miRNA?378a?5p attenuates the development of abdominal aortic aneurysm via ABLIM1?MKL1 signaling pathways. *International journal of molecular medicine*, 57(4).

Wang L, et al. (2026) Plasma Exosomal LncRNA XIST Impairs CD4+ T Cell Autophagy and Promotes Activation via the miR-98/RICTOR/Akt-mTOR Axis in Systemic Lupus Erythematosus. *Journal of inflammation research*, 19, 574715.

Qu X, et al. (2026) AURKB as a key driver of esophageal cancer progression: Molecular mechanisms and potential nursing implications based on multi-omics analysis. *Medicine*, 105(11), e47615.

Chen YP, et al. (2026) miR-100-5p Enhances Cell Cycle-Mediated Chemoresistance by Modulating the CTDSPL/pRB/E2F1 Signaling Pathway in Oxaliplatin-Resistant Colorectal Cancer Cells. *Oncology research*, 34(4), 17.

Lu J, et al. (2026) miR-155-5p promotes osteosarcoma progression and cisplatin resistance by targeting the SOCS1/STAT1/c-Fos signaling axis. *Discover oncology*, 17(1).

Yokoyama Y, et al. (2026) Therapeutic Potential of miR-4711-5p in Pancreatic Cancer: Antitumor Activity and Mechanistic Insights. *Cancers*, 18(7).