

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

Defining Citation: [PMID:26267216](#)

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

Funding: NIGMS GM067031;
Howard Hughes Medical Institute ;
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: 20260729T044258+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 10783 mentions in open access literature.

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

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

Sun W, et al. (2026) Targeting of C1RP attenuates osteoarthritis progression via suppressing TLR4/NF- κ B/NLRP3 signaling axis. International journal of molecular medicine, 57(1).

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

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

Alam R, et al. (2025) Bone-Induced HER2 Promotes Secondary Metastasis in HR+/HER2-Breast Cancer. Cancer discovery, 15(4), 818.

Tout I, et al. (2025) The integrative genomic and functional immunological analyses of colorectal cancer initiating cells to modulate stemness properties and the susceptibility to immune responses. Journal of translational medicine, 23(1), 193.

Thakur P, et al. (2025) An antisense oligonucleotide-based strategy to ameliorate cognitive dysfunction in the 22q11.2 Deletion Syndrome. eLife, 13.

Kang S, et al. (2025) Dicer is essential for proper maturation, composition, and function in the postnatal retina. iScience, 28(11), 113794.

Alemi M, et al. (2025) Suppression of mTOR Signaling by miR-302/367 Cluster in Breast Cancer Cells. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 39(16), e70943.

Zhao Y, et al. (2025) Tumor-exosomal miR-205-5p as a diagnostic biomarker for colorectal cancer. *Clinical & translational oncology : official publication of the Federation of Spanish Oncology Societies and of the National Cancer Institute of Mexico*, 27(3), 1185.

Wang C, et al. (2025) miRNA-383-5p Regulated Migration and Invasion of Tumor Cells by Inhibiting NCKAP1 Expression in Gastric Cancer. *Biochemical genetics*, 63(2), 1791.

Lin F, et al. (2025) Topical application of Tea leaf-derived nanovesicles reduce melanogenesis by modulating the miR-828b/MYB4 axis: better permeability and therapeutic efficacy than conventional tea extracts. *Materials today. Bio*, 34, 102108.

Zhang X, et al. (2025) Long non-coding RNA NORAD serves as a promoter of oncogenesis and inhibits ferroptosis via miR-144-3p-mTOR-ferritinophagy axis in cancer. *European journal of medical research*, 30(1), 704.

Qiu AW, et al. (2025) Retinal Müller Cell-Released Exosomal MiR-92a-3p Delivers Interleukin-17A Signal by Targeting Notch-1 to Promote Diabetic Retinopathy. *Investigative ophthalmology & visual science*, 66(1), 1.

Zhou H, et al. (2025) Hsa-miR-532-3p protects human decidual mesenchymal stem cells from oxidative stress in recurrent spontaneous abortion via targeting KEAP1. *Redox biology*, 80, 103508.

Ni F, et al. (2025) Novel lncRNA lncMSTRG.11341.25 Promotes Osteogenic Differentiation of Human Bone Marrow Stem Cells via the miR-939-5p/PAX8 Axis. *Research (Washington, D.C.)*, 8, 0601.

Hou JY, et al. (2025) ELABELA promotes the migration and homing of bone marrow mesenchymal stem cells to myocardial injury sites through the ERK1/2/miR-299a-5p/Exo70 pathway. *Frontiers in pharmacology*, 16, 1541869.

Zhang Y, et al. (2025) Exploring markers in nursing care of prostate cancer. *Medicine*, 104(4), e41357.

Majumdar S, et al. (2025) MiR-451a attenuates hepatic steatosis and hepatitis C virus replication by targeting glycerol kinase. *Journal of translational medicine*, 23(1), 322.

Li Q, et al. (2025) Exosomal miR-92b-5p regulates N4BP1 to enhance PTEN mono-ubiquitination in doxorubicin-resistant AML. *Cancer drug resistance (Alhambra, Calif.)*, 8, 16.