

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: web service, software resource, production service resource, data access protocol, service resource, data analysis 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: 20260803T040559+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 [ASWG](#) .

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.

He Y, et al. (2025) Hsa_circ_0001492 regulates the hsa-miR-145-5p/ovarian carcinoma immunoreactive antigen domain 2 axis to promote the progression of lung adenocarcinoma. *Biomolecules & biomedicine*, 25(4), 940.

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.

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.

Gong HZ, et al. (2025) Short communication: Upregulation of hypoxia/reoxygenation-induced Shc3 by downregulated miR-455-5p, suppresses trophoblast invasion and is associated with placental inflammation and angiogenesis in preeclampsia. *PloS one*, 20(1), e0314544.

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.

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.

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.

Yang S, et al. (2025) Identification of sex-biased and gonadal developmental miRNAs during critical windows of early gonadal differentiation in the Chinese giant salamander (*Andrias davidianus*). *BMC genomics*, 26(1), 238.

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.

Chen J, et al. (2025) lncRNA-GPHN Regulates Epilepsy by Inhibiting Apoptosis via the miR-320/YWHAH Axis in an Immature Rat Model of Status Epilepticus. *Journal of cellular and molecular medicine*, 29(9), e70593.