

# Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](http://FDI Lab - SciCrunch.org) on Apr 2, 2025

## TargetScan

RRID:SCR\_010845

Type: Tool

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### Proper Citation

TargetScan (RRID:SCR\_010845)

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

**Defining Citation:** [PMID:26267216](https://pubmed.ncbi.nlm.nih.gov/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/](http://www.targetscan.org/vert_71/)

**Record Creation Time:** 20220129T080301+0000

**Record Last Update:** 20250402T060926+0000

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## Ratings and Alerts

No rating or validation information has been found for TargetScan.

No alerts have been found for TargetScan.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 10516 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](#).

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

Zhang F, et al. (2025) miR-424-5p Promotes Proliferation, Migration and Invasion of Colorectal Cancer Cells via the Targeting TXNIP/Hippo Axi. *International journal of general medicine*, 18, 261.

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.

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.

Zhang C, et al. (2025) MYC-dependent MiR-7-5p regulated apoptosis and autophagy in diffuse large B cell lymphoma by targeting AMBRA1. *Molecular and cellular biochemistry*, 480(1), 191.

Lan X, et al. (2025) Effect of Transferrin-Modified Fe<sub>3</sub>O<sub>4</sub> Nanoparticle Targeted Delivery miR-15a-5p Combined With Photothermal Therapy on Lung Cancer. *Thoracic cancer*, 16(1), e15497.

Cheng J, et al. (2025) MiR-146b-5p inhibits *Candida albicans*-induced inflammatory response through targeting HMGB1 in mouse primary peritoneal macrophages. *Heliyon*, 11(1), e41464.

Fan L, et al. (2025) Comprehensive analysis of ceRNA Networks in UCEC: Prognostic and therapeutic implications. *PloS one*, 20(1), e0314314.

Zheng D, et al. (2025) Microfluidic Synthesis of miR-200c-3p Lipid Nanoparticles: Targeting ZEB2 to Alleviate Chondrocyte Damage in Osteoarthritis. *International journal of nanomedicine*, 20, 505.

Wang L, et al. (2025) Differential mRNA and lncRNA Expression Profiles Associated with Early Pregnancy Loss in ART Patients. *Reproductive sciences (Thousand Oaks, Calif.)*, 32(1), 229.

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.

Xu H, et al. (2025) CircPCNXL2 promotes preeclampsia progression by suppressing trophoblast cell proliferation and invasion via miR-487a-3p/interferon regulatory factor 2 axis. *Journal of hypertension*, 43(1), 152.

Sun Z, et al. (2025) hsa\_circ\_0001508 as a new gene that may promote breast cancer progression via the miR-505-3p/HMGB1, VGLL3 axis. *Molecular and clinical oncology*, 22(2), 13.

Guo F, et al. (2025) Cre-Lox miRNA-delivery technology optimized for inducible microRNA and gene-silencing studies in zebrafish. *Nucleic acids research*, 53(2).

Qin X, et al. (2025) The roles of STAT1, CASP8, and MYD88 in the care of ischemic stroke. *Medicine*, 104(4), e41396.

Huang Z, et al. (2025) Impact of Maternal BPA Exposure during Pregnancy on Obesity in Male Offspring: A Mechanistic Mouse Study of Adipose-Derived Exosomal miRNA. *Environmental health perspectives*, 133(1), 17011.

Li H, et al. (2025) MicroRNA-221 protects myocardial contractility in myocardial ischemia/reperfusion injury through phospholamban. *PloS one*, 20(1), e0316887.

Fahim SA, et al. (2025) Interaction Between Malat1 and miR-499-5p Regulates Meis1 Expression and Function with a Net Impact on Cell Proliferation. *Cells*, 14(2).

Liu G, et al. (2025) RNA analysis of patients with benign and malignant pulmonary nodules.

Oncology letters, 29(3), 132.

Zang W, et al. (2025) The MIR181A2HG/miR-5680/VCAN-CD44 Axis Regulates Gastric Cancer Lymph Node Metastasis by Promoting M2 Macrophage Polarization. *Cancer medicine*, 14(2), e70600.