

Your input

miRNA expression data:

- Identification of miRNA
- Fold change values (log2 FC)

We analyze by



miRTarBase

Experimental database
Cui et al. Nucleic Acids
Res, 2025

miRDB

Predicted database
Chen & Wang.
Nucleic Acids Res,
2020

TargetScan

Predicted database
McGeary, Lin et al. Science, 2019

Output 1, what you get: Target list CSV file

Entrez ID	Gene symbol	Degree	..	Down regulated
314941	Lrp12	4	..	2
314942	Csmd3	12		0
:				
245903	Magi3	16	..	0

Terms of Use:

- Academic use: free, must be cited
- Industry use: contact us for quote

Validated in several projects:

- Heger J et al., Int J Mol. 2023, PMID: [38203580](#)
- Ruppert M et al., Sci Rep. 2023, PMID: [37752166](#)
- Aczél T et al., J Headache Pain. 2022, PMID: [36050647](#)

For full list see: <https://mirnatarget.com/publications>

Output 2 what you get: microRNA-target network

GML (Graph
Modelling
Language) file



Analysis and Visualization (e.g., EntOptLayout plugin in Cytoscape)



Shannon et al. Genome Res, 2003



Ágg et al. Bioinformatics, 2019