

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 9, 2026

pcDNA3-miR21

RRID:Addgene_21114

Type: Plasmid

Proper Citation

RRID:Addgene_21114

Plasmid Information

URL: <http://www.addgene.org/21114>

Proper Citation: RRID:Addgene_21114

Insert Name: miR-21

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:19359480](#)

Vector Backbone Description: Backbone Size:5428; Vector Backbone:pcDNA3.1(+)
(Invitrogen); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3-miR21

Record Creation Time: 20220422T222054+0000

Record Last Update: 20260808T081407+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-miR21.

No alerts have been found for pcDNA3-miR21.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Arisan ED, et al. (2021) MiR-21 Is Required for the Epithelial-Mesenchymal Transition in MDA-MB-231 Breast Cancer Cells. *International journal of molecular sciences*, 22(4).

Nonaka CKV, et al. (2021) Therapeutic miR-21 Silencing Reduces Cardiac Fibrosis and Modulates Inflammatory Response in Chronic Chagas Disease. *International journal of molecular sciences*, 22(7).

Nara K, et al. (2019) Anti-inflammatory roles of microRNA 21 in lipopolysaccharide-stimulated human dental pulp cells. *Journal of cellular physiology*, 234(11), 21331.

Li X, et al. (2018) Selection and Application of Tissue microRNAs for Nonendoscopic Diagnosis of Barrett's Esophagus. *Gastroenterology*, 155(3), 771.

Velagapudi SP, et al. (2018) Approved Anti-cancer Drugs Target Oncogenic Non-coding RNAs. *Cell chemical biology*, 25(9), 1086.

Kowshik J, et al. (2017) Nimbolide upregulates RECK by targeting miR-21 and HIF-1?? in cell lines and in a hamster oral carcinogenesis model. *Scientific reports*, 7(1), 2045.

Peng X, et al. (2015) 3,6-Dihydroxyflavone Suppresses Breast Carcinogenesis by Epigenetically Regulating miR-34a and miR-21. *Cancer prevention research (Philadelphia, Pa.)*, 8(6), 509.

Yin S, et al. (2015) Primary microRNA processing is functionally coupled to RNAP II transcription in vitro. *Scientific reports*, 5, 11992.