

Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

pMDC32B-AtMIR390a-B/c

RRID:Addgene_51776

Type: Plasmid

Proper Citation

RRID:Addgene_51776

Plasmid Information

URL: <http://www.addgene.org/51776>

Proper Citation: RRID:Addgene_51776

Insert Name: AtMIR390a-B/c

Organism: Arabidopsis thaliana

Bacterial Resistance: Chloramphenicol and Kanamycin

Defining Citation: [PMID:24647477](#)

Vector Backbone Description: Backbone Size:10133; Vector Backbone:pMDC32; Vector Types:Plant Expression; Bacterial Resistance:Chloramphenicol and Kanamycin

Plasmid Name: pMDC32B-AtMIR390a-B/c

Relevant Mutation: A. thaliana MIR390a precursor sequence including a chloramphenicol-ccdB cassette flanked by two inverted BsaI sites. The BsaI site in the ccdB gene was mutated to block the site.

Record Creation Time: 20220422T222304+0000

Record Last Update: 20260815T081617+0000

Ratings and Alerts

No rating or validation information has been found for pMDC32B-AtMIR390a-B/c.

No alerts have been found for pMDC32B-AtMIR390a-B/c.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Buck GC, et al. (2025) Identifying and characterizing a missing peroxin-PEX8-in *Arabidopsis thaliana*. *The Plant cell*, 37(7).

Cisneros AE, et al. (2023) Transgene-free, virus-based gene silencing in plants by artificial microRNAs derived from minimal precursors. *Nucleic acids research*, 51(19), 10719.

Kastanaki E, et al. (2022) A genetic framework for proximal secondary vein branching in the *Arabidopsis thaliana* embryo. *Development (Cambridge, England)*, 149(12).

Bhatnagar N, et al. (2020) Heterotrimeric G-Protein Interactions Are Conserved Despite Regulatory Element Loss in Some Plants. *Plant physiology*, 184(4), 1941.

Carbonell A, et al. (2019) Fast-Forward Identification of Highly Effective Artificial Small RNAs Against Different Tomato spotted wilt virus Isolates. *Molecular plant-microbe interactions : MPMI*, 32(2), 142.

Carbonell A, et al. (2015) Highly specific gene silencing in a monocot species by artificial microRNAs derived from chimeric miRNA precursors. *The Plant journal : for cell and molecular biology*, 82(6), 1061.