

Resource Summary Report

Generated by [NIF](#) on Aug 13, 2026

pSicoR

RRID:Addgene_11579

Type: Plasmid

Proper Citation

RRID:Addgene_11579

Plasmid Information

URL: <http://www.addgene.org/11579>

Proper Citation: RRID:Addgene_11579

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:15240889](https://pubmed.ncbi.nlm.nih.gov/15240889/)

Vector Backbone Description: Backbone Size:7567; Vector Backbone:pSicoR; Vector Types:Mammalian Expression, Lentiviral, RNAi, Cre/Lox; Bacterial Resistance:Ampicillin

Comments: pSicoR allows for conditional (Cre-Lox), stable expression of shRNAs for RNA interference in cells and transgenic mice. Addition of Cre TURNS OFF shRNA expression. The shRNA coding oligos have to be cloned into the HpaI and XhoI restriction sites. Oligo design information can be found on the author's map for pSico and on the Jacks Lab website http://web.mit.edu/jacks-lab/protocols_table.html

Plasmid Name: pSicoR

Record Creation Time: 20220422T221606+0000

Record Last Update: 20260808T080520+0000

Ratings and Alerts

No rating or validation information has been found for pSicoR.

No alerts have been found for pSicoR.

Data and Source Information

Source: [Addgene](https://www.addgene.org/11579/)

Usage and Citation Metrics

We found 73 mentions in open access literature.

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

Acosta VH, et al. (2026) LMO2 Regulates Epithelial-Mesenchymal Plasticity of Mammary Epithelial Cells. *Journal of mammary gland biology and neoplasia*, 31(1).

Kim A, et al. (2025) Mice deficient in TWIK-1 are more susceptible to kainic acid-induced seizures. *iScience*, 28(1), 111587.

Zhu X, et al. (2025) N6-methyladenosine on L1PA governs the trans-silencing of LTRs and restrains totipotency in naive human embryonic stem cells. *Cell stem cell*, 32(11), 1773.

Li LJ, et al. (2025) Microglial double stranded DNA accumulation induced by DNase II deficiency drives neuroinflammation and neurodegeneration. *Journal of neuroinflammation*, 22(1), 11.

Haro-Acosta V, et al. (2025) LMO2 regulates epithelial-mesenchymal plasticity of mammary epithelial cells. *Research square*.

Li S, et al. (2025) Microglia mediated by LAG3 regulate astrocyte morphogenesis in the brain white matter. *Cell reports*, 44(8), 116112.

Haro-Acosta V, et al. (2025) LMO2 regulates epithelial-mesenchymal plasticity of mammary epithelial cells. *bioRxiv : the preprint server for biology*.

Li LJ, et al. (2024) Neuronal double-stranded DNA accumulation induced by DNase II deficiency drives tau phosphorylation and neurodegeneration. *Translational neurodegeneration*, 13(1), 39.

Hoi KK, et al. (2023) Primary cilia control oligodendrocyte precursor cell proliferation in white matter injury via Hedgehog-independent CREB signaling. *Cell reports*, 42(10), 113272.

Yan L, et al. (2023) Loss of SETD2-mediated downregulation of intracellular and exosomal miRNA-10b determines MAPK pathway activation and multidrug resistance in renal cancer. *Molecular carcinogenesis*, 62(11), 1770.

Hu J, et al. (2023) Tumor heterogeneity in VHL drives metastasis in clear cell renal cell carcinoma. *Signal transduction and targeted therapy*, 8(1), 155.

Xu Y, et al. (2023) Smurf1 polyubiquitinates on K285/K282 of the kinases Mst1/2 to attenuate their tumor-suppressor functions. *The Journal of biological chemistry*, 299(12), 105395.

Jun S, et al. (2023) Organization of Purkinje cell development by neuronal MEGF11 in cerebellar granule cells. *Cell reports*, 42(9), 113137.

Filippone MG, et al. (2022) CDK12 promotes tumorigenesis but induces vulnerability to therapies inhibiting folate one-carbon metabolism in breast cancer. *Nature communications*, 13(1), 2642.

Xin Y, et al. (2022) m6A epitranscriptomic modification regulates neural progenitor-to-glia cell transition in the retina. *eLife*, 11.

Bi Y, et al. (2022) Cell fate roadmap of human primed-to-naive transition reveals preimplantation cell lineage signatures. *Nature communications*, 13(1), 3147.

Palazzo A, et al. (2022) Transformed cells after senescence give rise to more severe tumor phenotypes than transformed non-senescent cells. *Cancer letters*, 546, 215850.

Liao S, et al. (2022) PRC1 and RACGAP1 are Diagnostic Biomarkers of Early HCC and PRC1 Drives Self-Renewal of Liver Cancer Stem Cells. *Frontiers in cell and developmental biology*, 10, 864051.

Tricaud N, et al. (2022) Traumatic and Diabetic Schwann Cell Demyelination Is Triggered by a Transient Mitochondrial Calcium Release through Voltage Dependent Anion Channel 1. *Biomedicines*, 10(6).

Cho HJ, et al. (2022) Lumican, an Exerkine, Protects against Skeletal Muscle Loss. *International journal of molecular sciences*, 23(17).