

Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Mar 31, 2025

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: 20250329T090120+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](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

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.

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

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.

Wagner NR, et al. (2022) miR-409-3p represses *Cited2* to refine neocortical layer V projection neuron identity. *Frontiers in neuroscience*, 16, 931333.

Zhang M, et al. (2022) Endothelial cells regulated by RNF20 orchestrate the proliferation and differentiation of neural precursor cells during embryonic development. *Cell reports*, 40(11), 111350.

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.

Bi Y, et al. (2020) Identification of ALPPL2 as a Naive Pluripotent State-Specific Surface Protein Essential for Human Naive Pluripotency Regulation. *Cell reports*, 30(11), 3917.

Ho EK, et al. (2020) Transient Primary Cilia Mediate Robust Hedgehog Pathway-Dependent Cell Cycle Control. *Current biology : CB*, 30(14), 2829.

Socodato R, et al. (2020) Microglia Dysfunction Caused by the Loss of Rhoa Disrupts Neuronal Physiology and Leads to Neurodegeneration. *Cell reports*, 31(12), 107796.

Schiano Lomoriello I, et al. (2020) A self-sustaining endocytic-based loop promotes breast cancer plasticity leading to aggressiveness and pro-metastatic behavior. *Nature communications*, 11(1), 3020.

Kim S, et al. (2019) Epigenetic regulation of mammalian Hedgehog signaling to the stroma determines the molecular subtype of bladder cancer. *eLife*, 8.

Kosmidis S, et al. (2018) RbAp48 Protein Is a Critical Component of GPR158/OCN Signaling

and Ameliorates Age-Related Memory Loss. Cell reports, 25(4), 959.

Park SM, et al. (2018) Brain Somatic Mutations in MTOR Disrupt Neuronal Ciliogenesis, Leading to Focal Cortical Dyslamination. Neuron, 99(1), 83.