

Resource Summary Report

Generated by [RRID](#) on Aug 29, 2026

pMXs-Sox2

RRID:Addgene_13367

Type: Plasmid

Proper Citation

RRID:Addgene_13367

Plasmid Information

URL: <http://www.addgene.org/13367>

Proper Citation: RRID:Addgene_13367

Insert Name: SRY-box containing gene 2

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16904174](#)

Vector Backbone Description: Backbone Size:4600; Vector Backbone:pMXs; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Comments: The sequence of primer pMX-S1811 is GAC GGC ATC GCA GCT TGG ATA CAC. The Sox2 cDNA contains a modified ATG start codon to TTG for cloning into vectors with an N-terminal tag. If this cDNA is used in a non-tagged construct, a functional protein (missing the first 3 amino acids--MYN) is produced as confirmed by co-immunoprecipitation, reporter assay, and other experiments.

Plasmid Name: pMXs-Sox2

Relevant Mutation: None

Record Creation Time: 20220422T221740+0000

Record Last Update: 20260829T075531+0000

Ratings and Alerts

No rating or validation information has been found for pMXs-Sox2.

No alerts have been found for pMXs-Sox2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 88 mentions in open access literature.

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

Li S, et al. (2024) c-Myc alone is enough to reprogram fibroblasts into functional macrophages. *Journal of hematology & oncology*, 17(1), 83.

Araki R, et al. (2024) iPS cell generation-associated point mutations include many C > T substitutions via different cytosine modification mechanisms. *Nature communications*, 15(1), 4946.

Hu X, et al. (2024) Dux activates metabolism-lactylation-MET network during early iPSC reprogramming with Brg1 as the histone lactylation reader. *Nucleic acids research*, 52(10), 5529.

Peng M, et al. (2024) The IMPDH cytoophidium couples metabolism and fetal development in mice. *Cellular and molecular life sciences : CMLS*, 81(1), 210.

Kanegi R, et al. (2023) Generation, characterization, and differentiation of induced pluripotent stem-like cells in the domestic cat. *The Journal of reproduction and development*, 69(6), 317.

Ma B, et al. (2023) Telomere dynamics in human pluripotent stem cells. *Cell cycle (Georgetown, Tex.)*, 22(23-24), 2505.

Khodeer S, et al. (2022) ALKBH5 regulates somatic cell reprogramming in a phase-specific manner. *Journal of cell science*, 135(11).

Zhao Q, et al. (2022) BNIP3-dependent mitophagy safeguards ESC genomic integrity via preventing oxidative stress-induced DNA damage and protecting homologous recombination. *Cell death & disease*, 13(11), 976.

Liu K, et al. (2022) BNIP3 (BCL2 interacting protein 3) regulates pluripotency by modulating mitochondrial homeostasis via mitophagy. *Cell death & disease*, 13(4), 334.

Fuentes-Iglesias A, et al. (2022) Detecting and Modulating ER Stress to Improve Generation of Induced Pluripotent Stem Cells. *Methods in molecular biology (Clifton, N.J.)*, 2454, 743.

Sun R, et al. (2022) Identification of microRNAs related with neural germ layer lineage-specific progenitors during reprogramming. *Journal of molecular histology*, 53(4), 623.

Chen W, et al. (2021) Fetal growth restriction impairs hippocampal neurogenesis and cognition via Tet1 in offspring. *Cell reports*, 37(5), 109912.

Ying Z, et al. (2021) Protocols for analysis of mitochondrial permeability transition pore opening in mouse somatic cell reprogramming. STAR protocols, 2(2), 100568.

Salti A, et al. (2021) High Glycolytic Activity Enhances Stem Cell Reprogramming of Fahd1-KO Mouse Embryonic Fibroblasts. Cells, 10(8).

Sánchez-Vázquez R, et al. (2021) AKT-dependent signaling of extracellular cues through telomeres impact on tumorigenesis. PLoS genetics, 17(3), e1009410.

Liu H, et al. (2020) The Effects of Daxx Knockout on Pluripotency and Differentiation of Mouse Induced Pluripotent Stem Cells. Cellular reprogramming, 22(2), 90.

Cota P, et al. (2020) Cytokine Directed Chondroblast Trans-Differentiation: JAK Inhibition Facilitates Direct Reprogramming of Fibroblasts to Chondroblasts. Cells, 9(1).

Torres-Mejía E, et al. (2020) Sox2 controls Schwann cell self-organization through fibronectin fibrillogenesis. Scientific reports, 10(1), 1984.

Li Y, et al. (2020) The function of a heterozygous p53 mutation in a Li-Fraumeni syndrome patient. PloS one, 15(6), e0234262.

Xia X, et al. (2020) Reprogrammed astrocytes display higher neurogenic competence, migration ability and cell death resistance than reprogrammed fibroblasts. Translational neurodegeneration, 9, 6.