Resource Summary Report

Generated by RRID on Aug 29, 2026

pMXs-Klf4

RRID:Addgene_13370
Type: Plasmid

Proper Citation

RRID:Addgene_13370

Plasmid Information

URL: http://www.addgene.org/13370

Proper Citation: RRID:Addgene_13370

Insert Name: Kruppel-like factor 4 (gut)

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. Mouse Klf4 includes G372A, A459C, G527C, G633C, G1021C, C1305G and T1368C mutations. All of substitutions can be found in EST database of NCBI. So we believe that these differences are caused by SNPs. As we have shown in the previous our papers, these changes do not affect biological functions of the transcription factors during reprogramming.

Plasmid Name: pMXs-Klf4

Relevant Mutation: None

Record Creation Time: 20220422T221740+0000

Record Last Update: 20260829T075532+0000

Ratings and Alerts

No rating or validation information has been found for pMXs-Klf4.

No alerts have been found for pMXs-Klf4.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 87 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

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.

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

Campos-Iglesias D, et al. (2024) Loss of ADAM29 does not affect viability and fertility in mice but improves wound healing. iScience, 27(6), 110135.

Osterburg C, et al. (2023) Disease-related p63 DBD mutations impair DNA binding by distinct mechanisms and varying degree. Cell death & disease, 14(4), 274.

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.

Sato S, et al. (2023) The circadian clock CRY1 regulates pluripotent stem cell identity and somatic cell reprogramming. Cell reports, 42(6), 112590.

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

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.

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.

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

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

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

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

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).