

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

[ph7SK-gRNA](#)

RRID:Addgene_53189

Type: Plasmid

Proper Citation

RRID:Addgene_53189

Plasmid Information

URL: <http://www.addgene.org/53189>

Proper Citation: RRID:Addgene_53189

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:25122746](#)

Vector Backbone Description: Backbone Size:3504; Vector Backbone:pzDonor; Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Kanamycin

Plasmid Name: ph7SK-gRNA

Record Creation Time: 20220422T222312+0000

Record Last Update: 20260815T081632+0000

Ratings and Alerts

No rating or validation information has been found for ph7SK-gRNA.

No alerts have been found for ph7SK-gRNA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Mirizio G, et al. (2026) Combinatorial pioneer transcription factor binding reinforces bivalent epigenetic states to preserve lineage fidelity. *bioRxiv : the preprint server for biology*.

Matsui S, et al. (2026) MAPK/ERK signaling regulates H3K9me3 heterochromatin reorganization to confer mesendoderm developmental competence. *Nucleic acids research*, 54(12).

Yu H, et al. (2025) H3K4me3 amplifies transcription at intergenic active regulatory elements. *Genes & development*, 39(21-22), 1290.

Gong JN, et al. (2025) Re-appraising assays on permeabilized blood cancer cells testing venetoclax or other BH3 mimetic agents selectively targeting pro-survival BCL2 proteins. *Cell death and differentiation*, 32(8), 1382.

Simard-Bisson C, et al. (2025) Mimicking the LOX-Related Autosomal Recessive Congenital Ichthyosis Skin Disease Using a CRISPR-Cas9 System and Unravelling 12S-LOX Function in the Skin. *Dermatopathology (Basel, Switzerland)*, 12(3).

Valc??rcel G, et al. (2025) Modulating immune cell fate and inflammation through CRISPR-mediated DNA methylation editing. *Science advances*, 11(29), eadt1644.

Nelson HM, et al. (2024) Transfer of miR-100 and miR-125b increases 3D growth and invasiveness in recipient cancer cells. *Extracellular vesicles and circulating nucleic acids*, 5(3), 397.

Matsui S, et al. (2024) Pioneer and PRDM transcription factors coordinate bivalent epigenetic states to safeguard cell fate. *Molecular cell*, 84(3), 476.

Matsui S, et al. (2024) Protocol for establishing inducible CRISPR interference system for multiple-gene silencing in human pluripotent stem cells. *STAR protocols*, 5(3), 103221.

Cai H, et al. (2024) CRISPR/Cas9 model of prostate cancer identifies Kmt2c deficiency as a metastatic driver by Odam/Cabs1 gene cluster expression. *Nature communications*, 15(1), 2088.

Yoo H, et al. (2023) Common and distinct functions of mouse Dot1l in the regulation of endothelial transcriptome. *Frontiers in cell and developmental biology*, 11, 1176115.

Maimaitili M, et al. (2023) Enhanced production of mesencephalic dopaminergic neurons from lineage-restricted human undifferentiated stem cells. *Nature communications*, 14(1), 7871.

Loftus D, et al. (2023) Allelic chromatin structure primes imprinted expression of Kcnk9 during neurogenesis. *bioRxiv : the preprint server for biology*.

Xu Y, et al. (2022) Adult human kidney organoids originate from CD24+ cells and represent an advanced model for adult polycystic kidney disease. *Nature genetics*, 54(11), 1690.

Werder RB, et al. (2022) CRISPR interference interrogation of COPD GWAS genes reveals the functional significance of desmoplakin in iPSC-derived alveolar epithelial cells. *Science advances*, 8(28), eabo6566.

Yang F, et al. (2020) DUX-miR-344-ZMYM2-Mediated Activation of MERV LTRs Induces a Totipotent 2C-like State. *Cell stem cell*, 26(2), 234.

Yoo H, et al. (2020) Epigenetic priming by Dot1l in lymphatic endothelial progenitors ensures normal lymphatic development and function. *Cell death & disease*, 11(1), 14.

Sullivan NT, et al. (2019) Novel gRNA design pipeline to develop broad-spectrum CRISPR/Cas9 gRNAs for safe targeting of the HIV-1 quasispecies in patients. *Scientific reports*, 9(1), 17088.

Xian H, et al. (2019) STX17 dynamically regulated by Fis1 induces mitophagy via hierarchical macroautophagic mechanism. *Nature communications*, 10(1), 2059.

Dall'Agnese A, et al. (2019) Transcription Factor-Directed Re-wiring of Chromatin Architecture for Somatic Cell Nuclear Reprogramming toward trans-Differentiation. *Molecular cell*, 76(3), 453.