Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 1, 2025

lenti-sgRNA hygro

RRID:Addgene_104991 Type: Plasmid

Proper Citation

RRID:Addgene_104991

Plasmid Information

URL: http://www.addgene.org/104991

Proper Citation: RRID:Addgene_104991

Bacterial Resistance: Ampicillin

Defining Citation: PMID:30894629

Vector Backbone Description: Backbone Marker:Brett Stringer from Feng Zhang plasmid lentiCRISPR v2 (Addgene plasmid #52961); Backbone Size:11022; Vector Backbone:lentiCRISPRv2 hygro (Addgene #98291); Vector Types:Mammalian Expression, Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: This 3rd generation lentiviral plasmid expresses a S. pyogenes CRISPR chimeric RNA element with a customizable sgRNA from a U6 promoter and hygromycin resistance gene from an EF-1a core promoter. This plasmid does NOT contain Cas9. It should be used in conjunction with lentiCas9 puro, lentiCas9 neo or lentiCas9 blast or with cell lines expressing Cas9. After cloning a double-stranded oligonucleotide specifying a gRNA between the two BsmBI restriction sites, use hU6-F (5'-

GAGGGCCTATTTCCCATGATT-3') or LKO.1 5'(5'- GACTATCATATGCTTACCGT-3') to sequence the chimeric RNA element. Instruction for gRNA double-stranded oligonucleotide design and cloning can be found in the Zhang lab protocol,

https://media.addgene.org/data/plasmids/52/52961/52961-attachment_B3xTwla0bkYD.pdf

Plasmid Name: lenti-sgRNA hygro

Record Creation Time: 20220422T221509+0000

Record Last Update: 20231115T080037+0000

Ratings and Alerts

No rating or validation information has been found for lenti-sgRNA hygro.

No alerts have been found for lenti-sgRNA hygro.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Sun ND, et al. (2024) TBK1 and IKK? protect target cells from IFN?-mediated T cell killing via an inflammatory apoptotic mechanism. bioRxiv : the preprint server for biology.

Xue M, et al. (2024) METTL16 promotes liver cancer stem cell self-renewal via controlling ribosome biogenesis and mRNA translation. Journal of hematology & oncology, 17(1), 7.

Malone CF, et al. (2024) The KAT module of the SAGA complex maintains the oncogenic gene expression program in MYCN-amplified neuroblastoma. Science advances, 10(22), eadm9449.

Nieto-Caballero VE, et al. (2024) History of tuberculosis disease is associated with genetic regulatory variation in Peruvians. PLoS genetics, 20(6), e1011313.

Zhao Z, et al. (2023) QKI shuttles internal m7G-modified transcripts into stress granules and modulates mRNA metabolism. Cell, 186(15), 3208.

Han L, et al. (2023) METTL16 drives leukemogenesis and leukemia stem cell self-renewal by reprogramming BCAA metabolism. Cell stem cell, 30(1), 52.