Resource Summary Report

Generated by NIF on Sep 10, 2026

lenti U6-sgRNA/EF1a-mCherry

RRID:Addgene_114199
Type: Plasmid

Proper Citation

RRID:Addgene_114199

Plasmid Information

URL: http://www.addgene.org/114199

Proper Citation: RRID:Addgene_114199

Insert Name: sgRNA scaffold

Bacterial Resistance: Ampicillin

Defining Citation: PMID:30863790

Vector Backbone Description: Vector Backbone:lentiCRISPR v2; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: Addgene #47108 adapted into lentivirus backbone and insertion of EF1a mCherry . Please visit https://www.biorxiv.org/content/early/2018/07/17/371500 for bioRxiv preprint.

Plasmid Name: lenti U6-sgRNA/EF1a-mCherry

Record Creation Time: 20220422T221558+0000

Record Last Update: 20260905T074450+0000

Ratings and Alerts

No rating or validation information has been found for lenti U6-sgRNA/EF1a-mCherry.

No alerts have been found for lenti U6-sgRNA/EF1a-mCherry.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Loth MK, et al. (2025) Lentiviral CRISPRa/i in the adult prairie vole brain: modulating neuronal gene expression without DNA cleavage. Frontiers in genome editing, 7, 1602983.

Hernandez G, et al. (2025) Amphetamine in Adolescence Induces a Sex-Specific Mesolimbic Dopamine Phenotype in the Adult Prefrontal Cortex. bioRxiv : the preprint server for biology.

Feng B, et al. (2025) Transcriptomic analysis of the m6A reader YTHDF2 in the maintenance and differentiation of human embryonic stem cells. Stem cells (Dayton, Ohio), 43(7).

La Vecchia S, et al. (2025) Small-molecule OPA1 inhibitors reverse mitochondrial adaptations to overcome therapy resistance in acute myeloid leukemia. Science advances, 11(42), eadx8662.

Pandey GK, et al. (2024) Liver regulatory mechanisms of noncoding variants at lipid and metabolic trait loci. HGG advances, 5(2), 100275.

Sun Q, et al. (2024) Area postrema neurons mediate interleukin-6 function in cancer cachexia. Nature communications, 15(1), 4682.

Reynolds LM, et al. (2023) Amphetamine disrupts dopamine axon growth in adolescence by a sex-specific mechanism in mice. Nature communications, 14(1), 4035.

Walker CK, et al. (2023) Cross-Platform Synaptic Network Analysis of Human Entorhinal Cortex Identifies TWF2 as a Modulator of Dendritic Spine Length. The Journal of neuroscience : the official journal of the Society for Neuroscience, 43(20), 3764.

Sun Q, et al. (2023) Area postrema neurons mediate interleukin-6 function in cancer-associated cachexia. bioRxiv : the preprint server for biology.

Mishra AP, et al. (2022) BRCA2-DSS1 interaction is dispensable for RAD51 recruitment at replication-induced and meiotic DNA double strand breaks. Nature communications, 13(1), 1751.

Carullo NVN, et al. (2021) A Cre-Dependent CRISPR/dCas9 System for Gene Expression Regulation in Neurons. eNeuro, 8(4).

Zipperly ME, et al. (2021) Regulation of dopamine-dependent transcription and cocaine action by Gadd45b. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 46(4), 709.

Carullo NVN, et al. (2020) Enhancer RNAs predict enhancer-gene regulatory links and are critical for enhancer function in neuronal systems. Nucleic acids research, 48(17), 9550.

Duke CG, et al. (2020) An Improved CRISPR/dCas9 Interference Tool for Neuronal Gene Suppression. Frontiers in genome editing, 2, 9.

Savell KE, et al. (2019) A Neuron-Optimized CRISPR/dCas9 Activation System for Robust and Specific Gene Regulation. eNeuro, 6(1).