

Resource Summary Report

Generated by [NIF](#) on Jul 30, 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](https://pubmed.ncbi.nlm.nih.gov/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: 20260725T073536+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](https://www.addgene.org/)

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).