

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

[pAAV-Ef1a-DIO-EGFP-WPRE-pA](#)

RRID:Addgene_37084

Type: Plasmid

Proper Citation

RRID:Addgene_37084

Plasmid Information

URL: <http://www.addgene.org/37084>

Proper Citation: RRID:Addgene_37084

Insert Name: EGFP

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:22866029](#)

Vector Backbone Description: Backbone Marker:K. Deisseroth Lab; Backbone Size:5603; Vector Backbone:pAAV-Ef1a-DIO-hChR2(H134R)-mCherry-WPRE-pA; Vector Types:AAV, Cre/Lox, Cre-On; Bacterial Resistance:Ampicillin

Plasmid Name: pAAV-Ef1a-DIO-EGFP-WPRE-pA

Record Creation Time: 20220422T222157+0000

Record Last Update: 20260815T081412+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-Ef1a-DIO-EGFP-WPRE-pA.

No alerts have been found for pAAV-Ef1a-DIO-EGFP-WPRE-pA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Bae J, et al. (2026) MeCP2 regulates cell-type-specific functions of depressive-like symptoms in the nucleus accumbens. *Experimental & molecular medicine*, 58(5), 1657.

Caruso A, et al. (2025) Adipocyte/Tumor cell crosstalk via IGF-1/TXNIP axis promotes malignancy and endocrine resistance in breast cancer. *Cell communication and signaling : CCS*, 23(1), 262.

Bagon BB, et al. (2023) AAV-mediated skeletal muscle specific irisin expression does not contribute to weight loss in mice. *Biochemical and biophysical research communications*, 682, 111.

Anderson EM, et al. (2023) Epigenetic function during heroin self-administration controls future relapse-associated behavior in a cell type-specific manner. *Proceedings of the National Academy of Sciences of the United States of America*, 120(7), e2210953120.

Sautchuk R, et al. (2022) Transcriptional regulation of cyclophilin D by BMP/Smad signaling and its role in osteogenic differentiation. *eLife*, 11.

Schneeberger M, et al. (2022) Pharmacological targeting of glutamatergic neurons within the brainstem for weight reduction. *Nature metabolism*, 4(11), 1495.

Hong J, et al. (2022) The Neurotrophic Receptor Tyrosine Kinase in MEC-mPFC Neurons Contributes to Remote Memory Consolidation. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 42(34), 6605.

Falk EN, et al. (2021) Nicotinic regulation of local and long-range input balance drives top-down attentional circuit maturation. *Science advances*, 7(10).

Sadahiro M, et al. (2020) Activation of Somatostatin Interneurons by Nicotinic Modulator Lypd6 Enhances Plasticity and Functional Recovery in the Adult Mouse Visual Cortex. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 40(27), 5214.

Kol A, et al. (2020) Astrocytes contribute to remote memory formation by modulating hippocampal-cortical communication during learning. *Nature neuroscience*, 23(10), 1229.

Lawler AJ, et al. (2020) Cell Type-Specific Oxidative Stress Genomic Signatures in the Globus Pallidus of Dopamine-Depleted Mice. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 40(50), 9772.

Jung H, et al. (2019) Noninvasive optical activation of Flp recombinase for genetic manipulation in deep mouse brain regions. *Nature communications*, 10(1), 314.

Li Y, et al. (2017) Distinct roles of neuronal and microglial CB2 cannabinoid receptors in the mouse hippocampus. *Neuroscience*, 363, 11.

Wallace ML, et al. (2017) Genetically Distinct Parallel Pathways in the Entopeduncular Nucleus for Limbic and Sensorimotor Output of the Basal Ganglia. *Neuron*, 94(1), 138.

Chen Y, et al. (2017) Crosstalk between KCNK3-Mediated Ion Current and Adrenergic Signaling Regulates Adipose Thermogenesis and Obesity. *Cell*, 171(4), 836.

Iwata R, et al. (2015) Developmental RacGAP α 2-Chimaerin Signaling Is a Determinant of the Morphological Features of Dendritic Spines in Adulthood. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 35(40), 13728.

Bukhari N, et al. (2015) Unmasking Proteolytic Activity for Adult Visual Cortex Plasticity by the Removal of Lynx1. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 35(37), 12693.