Resource Summary Report

Generated by NIF on Jul 29, 2026

pAAV-Ef1a-DIO ChETA-EYFP

RRID:Addgene_26968
Type: Plasmid

Proper Citation

RRID:Addgene_26968

Plasmid Information

URL: http://www.addgene.org/26968

Proper Citation: RRID:Addgene_26968

Insert Name: hChR2(E123T/H134R)-EYFP

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:20081849

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5587; Vector Backbone:pAAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: This plasmid contains the human elongation factor-1a promoter. For additional information please visit - http://www.optogenetics.org

Plasmid Name: pAAV-Ef1a-DIO ChETA-EYFP

Relevant Mutation: E123T, H134R

Record Creation Time: 20220422T222121+0000

Record Last Update: 20260725T074513+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-Ef1a-DIO ChETA-EYFP.

No alerts have been found for pAAV-Ef1a-DIO ChETA-EYFP.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Constantinescu VS, et al. (2025) Calretinin-Expressing Neurons in the Basal Forebrain Specifically Contact Granule Cells in the Olfactory Bulb and Modulate Odor Learning. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(10).

Kumar P, et al. (2024) Native-state proteomics of Parvalbumin interneurons identifies unique molecular signatures and vulnerabilities to early Alzheimer's pathology. Nature communications, 15(1), 2823.

Narai E, et al. (2024) Orexinergic neurons contribute to autonomic cardiovascular regulation for locomotor exercise. The Journal of physiology.

Zhang X, et al. (2023) Cholecystokinin B receptor antagonists for the treatment of depression via blocking long-term potentiation in the basolateral amygdala. Molecular psychiatry, 28(8), 3459.

Kumar P, et al. (2023) Native-state proteomics of Parvalbumin interneurons identifies novel molecular signatures and metabolic vulnerabilities to early Alzheimer's disease pathology. bioRxiv : the preprint server for biology.

Li H, et al. (2022) Activation of Somatostatin-Expressing Neurons in the Lateral Septum Improves Stress-Induced Depressive-like Behaviors in Mice. Pharmaceutics, 14(10).

Baleisyte A, et al. (2022) Stimulation of medial amygdala GABA neurons with kinetically different channelrhodopsins yields opposite behavioral outcomes. Cell reports, 39(8), 110850.

Choe KY, et al. (2022) Oxytocin normalizes altered circuit connectivity for social rescue of the Cntnap2 knockout mouse. Neuron, 110(5), 795.

Romero-Sosa JL, et al. (2021) Differential Excitability of PV and SST Neurons Results in Distinct Functional Roles in Inhibition Stabilization of Up States. The Journal of neuroscience : the official journal of the Society for Neuroscience, 41(34), 7182.

Comeras LB, et al. (2021) NPY Released From GABA Neurons of the Dentate Gyrus Specially Reduces Contextual Fear Without Affecting Cued or Trace Fear. Frontiers in synaptic neuroscience, 13, 635726.

Moreno-Lopez Y, et al. (2021) The corticospinal tract primarily modulates sensory inputs in the mouse lumbar cord. eLife, 10.

Feng H, et al. (2021) The entorhinal cortex modulates trace fear memory formation and neuroplasticity in the mouse lateral amygdala via cholecystokinin. eLife, 10.

Yoo J, et al. (2020) Long-term Intracellular Recording of Optogenetically-induced Electrical Activities using Vertical Nanowire Multi Electrode Array. Scientific reports, 10(1), 4279.

Murata K, et al. (2019) Opposing Roles of Dopamine Receptor D1- and D2-Expressing Neurons in the Anteromedial Olfactory Tubercle in Acquisition of Place Preference in Mice. Frontiers in behavioral neuroscience, 13, 50.

H??rmer BA, et al. (2018) Hippocampal NPY Y2 receptors modulate memory depending on emotional valence and time. Neuropharmacology, 143, 20.

Li SJ, et al. (2018) A Viral Receptor Complementation Strategy to Overcome CAV-2 Tropism for Efficient Retrograde Targeting of Neurons. Neuron, 98(5), 905.

Morishima M, et al. (2017) Segregated Excitatory-Inhibitory Recurrent Subnetworks in Layer 5 of the Rat Frontal Cortex. Cerebral cortex (New York, N.Y. : 1991), 27(12), 5846.

Chimerel C, et al. (2017) Optogenetic Analysis of Depolarization-Dependent Glucagonlike Peptide-1 Release. Endocrinology, 158(10), 3426.