

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

pAAV-Ef1a-fDIO hChR2(H134R)-EYFP

RRID:Addgene_55639

Type: Plasmid

Proper Citation

RRID:Addgene_55639

Plasmid Information

URL: <http://www.addgene.org/55639>

Proper Citation: RRID:Addgene_55639

Insert Name: hChR2(H134R)-EYFP

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24908100](#)

Vector Backbone Description: Backbone Size:5600; Vector Backbone:AAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Plasmid Name: pAAV-Ef1a-fDIO hChR2(H134R)-EYFP

Record Creation Time: 20220422T222325+0000

Record Last Update: 20260725T074851+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-Ef1a-fDIO hChR2(H134R)-EYFP.

No alerts have been found for pAAV-Ef1a-fDIO hChR2(H134R)-EYFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

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

Reinhold K, et al. (2025) Striatum supports fast learning but not memory recall. *Nature*, 643(8071), 458.

Salay LD, et al. (2025) A circuit that integrates drive state and social contact to gate mating. *Nature*, 646(8084), 394.

Olson WP, et al. (2025) Muscle spindles provide flexible sensory feedback for movement sequences. *Cell reports*, 44(11), 116452.

Kinney JL, et al. (2025) Top-down regulation of subcortical regions by hippocampal long-range inhibition. *Current biology : CB*, 35(23), 5853.

Faget L, et al. (2024) Ventral pallidum GABA and glutamate neurons drive approach and avoidance through distinct modulation of VTA cell types. *Nature communications*, 15(1), 4233.

Jiang C, et al. (2024) Targeting mitochondrial dynamics of morphine-responsive dopaminergic neurons ameliorates opiate withdrawal. *The Journal of clinical investigation*, 134(5).

Faget L, et al. (2023) Ventral pallidum GABA and glutamate neurons drive approach and avoidance through distinct modulation of VTA cell types. *bioRxiv : the preprint server for biology*.

Yen TY, et al. (2022) Inhibitory projections connecting the dentate gyri in the two hemispheres support spatial and contextual memory. *Cell reports*, 39(7), 110831.

Zhang Q, et al. (2022) Food-induced dopamine signaling in AgRP neurons promotes feeding. *Cell reports*, 41(9), 111718.

Liu S, et al. (2022) Divergent brainstem opioidergic pathways that coordinate breathing with pain and emotions. *Neuron*, 110(5), 857.

Seiler JL, et al. (2022) Dopamine signaling in the dorsomedial striatum promotes compulsive behavior. *Current biology : CB*, 32(5), 1175.

Yap EL, et al. (2021) Bidirectional perisomatic inhibitory plasticity of a Fos neuronal network. *Nature*, 590(7844), 115.

Ibrahim LA, et al. (2021) Bottom-up inputs are required for establishment of top-down connectivity onto cortical layer 1 neurogliaform cells. *Neuron*, 109(21), 3473.

Lilascharoen V, et al. (2021) Divergent pallidal pathways underlying distinct Parkinsonian behavioral deficits. *Nature neuroscience*, 24(4), 504.

Smith MA, et al. (2020) Extrahypothalamic GABAergic nociceptin-expressing neurons regulate AgRP neuron activity to control feeding behavior. *The Journal of clinical investigation*, 130(1), 126.

Trouche S, et al. (2019) A Hippocampus-Accumbens Tripartite Neuronal Motif Guides Appetitive Memory in Space. *Cell*, 176(6), 1393.

Shin S, et al. (2018) Drd3 Signaling in the Lateral Septum Mediates Early Life Stress-Induced Social Dysfunction. *Neuron*, 97(1), 195.

Keum S, et al. (2018) A Missense Variant at the Nr1h3 Locus Enhances Empathy Fear in the Mouse. *Neuron*, 98(3), 588.

Knowland D, et al. (2017) Distinct Ventral Pallidal Neural Populations Mediate Separate Symptoms of Depression. *Cell*, 170(2), 284.