Resource Summary Report

Generated by RRID on Aug 27, 2026

pAAV-hSyn-hChR2(H134R)-EYFP

RRID:Addgene_26973
Type: Plasmid

Proper Citation

RRID:Addgene_26973

Plasmid Information

URL: http://www.addgene.org/26973

Proper Citation: RRID:Addgene_26973

Insert Name: hChR2(H134R)

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:4574; Vector Backbone:pAAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: This plasmid contains the human synapsin I promoter. For additional information please visit - http://www.optogenetics.org

Plasmid Name: pAAV-hSyn-hChR2(H134R)-EYFP

Relevant Mutation: H134R

Record Creation Time: 20220422T222121+0000

Record Last Update: 20260815T081258+0000

Ratings and Alerts

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

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

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 166 mentions in open access literature.

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

Jung F, et al. (2026) DMC-BrainMap is an open-source, end-to-end tool for multi-feature brain mapping in different species. Cell reports methods, 6(2), 101302.

Cao Z, et al. (2026) The ventral hippocampus to paraventricular thalamus circuit regulates context-dependent hyperlocomotion through PAC1 receptor signaling in the chronic stress-induced PTSD mouse model. Translational psychiatry, 16(1).

Hosford PS, et al. (2026) Control of representation updating by higher-order thalamus enables history-based decision-making. Neuron.

Zaccaria C, et al. (2026) Investigation of synaptic connectivity in functional in vitro neuronal assemblies. Cell reports methods, 6(1), 101265.

Jiang Q, et al. (2026) Psilocybin triggers an activity-dependent rewiring of large-scale cortical networks. Cell, 189(2), 659.

Cruz EM, et al. (2026) Astrocyte Enrichment of 3D Cortical Constructs Enhances Brain Repair. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(20), e07423.

Adank DN, et al. (2026) Insular Somatostatin Interneurons Are Targeted by Motor Cortex Efferents and Modulate Affective States. Biological psychiatry global open science, 6(4), 100728.

Christian JA, et al. (2026) Association learning drives synaptic plasticity at feedforward synapses in somatosensory cortex. Cerebral cortex (New York, N.Y. : 1991), 36(6).

Macdonald EE, et al. (2026) A synaptic mechanism for encoding the learned value of action-derived safety. Nature communications, 17(1).

Xia K, et al. (2026) Real-Time Feedback Strategically Regulates Optoelectronics for Customized Optogenetic Spinal Cord Regeneration. Exploration (Beijing, China), 6(2), 20250138.

Iyer L, et al. (2026) Post-Critical Period Transcriptional and Physiological Adaptations of Primary Sensory Cortex after Sensory Loss. The Journal of neuroscience : the official journal of the Society for Neuroscience, 46(7).

Qi T, et al. (2026) Top-down regulation of ingestive behavior fragmentation. bioRxiv : the preprint server for biology.

Alyahyay M, et al. (2026) Mechanisms of premotor-motor cortex interactions during movement initiation. Cell reports, 45(6), 117542.

Yonk AJ, et al. (2025) Role of posterior medial thalamus in the modulation of striatal circuitry and choice behavior. eLife, 13.

Omidi S, et al. (2025) Pathway-like Activation of 3D Neuronal Constructs with an Optical Interface. Biosensors, 15(3).

Hong CY, et al. (2025) Anterior hypothalamic nucleus drives distinct defensive responses through cell-type-specific activity. iScience, 28(4), 112097.

Bair-Marshall CJ, et al. (2025) Neural circuit plasticity transforms infant neglect into maternal care. Research square.

Wang W, et al. (2025) Hydrogen-bonded organic framework nanotransducers enabled sono-optogenetics for Parkinsonian rats. bioRxiv : the preprint server for biology.

Masterson SP, et al. (2025) Cell-type specific binocular interactions in mouse visual thalamus. iScience, 28(7), 112956.

Greene G, et al. (2025) Age-dependent integration of cortical progenitors transplanted at CSF-neurogenic niche interface. Frontiers in cell and developmental biology, 13, 1577045.