

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

Usage and Citation Metrics

We found 166 mentions in open access literature.

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

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).

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.

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

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.

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

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).

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.

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

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

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).

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

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

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).

Gomez AM, et al. (2025) Aberrant hypothalamic neuronal activity blunts glucocorticoid diurnal rhythms in murine breast cancer. *Neuron*.

Silbaugh A, et al. (2025) Cerebellar climbing fibers impact experience-dependent plasticity in the mouse primary somatosensory cortex. *eLife*, 14.

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

Okuda T, et al. (2025) The posterior capsular central amygdala showing synaptic coactivation with nociceptive pain-associated parabrachial neurons in mice. *iScience*, 28(8), 113001.