Resource Summary Report

Generated by RRID on Sep 2, 2026

pAAV-CAG-DIO-ChR2(H134R)-eYFP

RRID:Addgene_127090
Type: Plasmid

Proper Citation

RRID:Addgene_127090

Plasmid Information

URL: http://www.addgene.org/127090

Proper Citation: RRID:Addgene_127090

Insert Name: Channelrhodopsin-2

Organism: C. reinhardtii

Bacterial Resistance: Ampicillin

Defining Citation: PMID:31028266

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

Comments: *Note: This construct is based on Addgene ID 20298 (the Ef1a promoter was changed to the CAG promoter).

Plasmid Name: pAAV-CAG-DIO-ChR2(H134R)-eYFP

Relevant Mutation: Humanized ChR2 gene with histidine 134 changed to arginine (H134R), to achieve higher currents

Record Creation Time: 20220422T221706+0000

Record Last Update: 20260902T041636+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-CAG-DIO-ChR2(H134R)-eYFP.

No alerts have been found for pAAV-CAG-DIO-ChR2(H134R)-eYFP.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

de Araujo Salgado I, et al. (2026) High-fat food reinforces risk taking by suppressing defensive neurons. Current biology : CB, 36(1), 49.

Fatima M, et al. (2026) A specialized population of hair afferents dedicated to transmitting mechanical itch. Neuron.

Chen L, et al. (2025) Motor cortical neuronal hyperexcitability associated with ?-synuclein aggregation. NPJ Parkinson's disease, 11(1), 18.

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

Ramirez JM, et al. (2025) The role of medullary astrocytes in breathing and arousal: insights into glial regulation of respiratory function. Research square.

Chen L, et al. (2024) Motor Cortical Neuronal Hyperexcitability Associated with ?-Synuclein Aggregation. bioRxiv : the preprint server for biology.

Chen L, et al. (2024) Motor Cortical Neuronal Hyperexcitability Associated with ?-Synuclein Aggregation. Research square.

Berry MH, et al. (2023) A melanopsin ganglion cell subtype forms a dorsal retinal mosaic projecting to the supraoptic nucleus. Nature communications, 14(1), 1492.

Ip CK, et al. (2023) Critical role of lateral habenula circuits in the control of stress-induced palatable food consumption. Neuron, 111(16), 2583.

Chen L, et al. (2023) Reduced thalamic excitation to motor cortical pyramidal tract neurons in parkinsonism. Science advances, 9(34), eadg3038.

Veerakumar A, et al. (2022) Molecularly defined circuits for cardiovascular and cardiopulmonary control. Nature, 606(7915), 739.

Chen L, et al. (2022) Synaptic location is a determinant of the detrimental effects of ?-synuclein pathology to glutamatergic transmission in the basolateral amygdala. eLife, 11.