

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](#) on Apr 30, 2025

pAAV-Syn-ChR2(H134R)-GFP

RRID:Addgene_58880

Type: Plasmid

Proper Citation

RRID:Addgene_58880

Plasmid Information

URL: <http://www.addgene.org/58880>

Proper Citation: RRID:Addgene_58880

Insert Name: ChR2(H134R)-GFP

Organism: Other

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16116447](#)

Vector Backbone Description: Backbone Size:4698; Vector Backbone:AAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: Plasmid is completely sequenced by the depositing lab. Multiple digestions were done to verify the vector structure. The construct and the virus were both tested in vitro.

Plasmid Name: pAAV-Syn-ChR2(H134R)-GFP

Relevant Mutation: H134R

Record Creation Time: 20220422T222340+0000

Record Last Update: 20230915T081208+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-Syn-ChR2(H134R)-GFP.

No alerts have been found for pAAV-Syn-ChR2(H134R)-GFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Zhao Z, et al. (2024) Cannabinoids regulate an insula circuit controlling water intake. *Current biology : CB*, 34(9), 1918.

González-Pereyra P, et al. (2024) Preconfigured cortico-thalamic neural dynamics constrain movement-associated thalamic activity. *Nature communications*, 15(1), 10185.

Malone TJ, et al. (2024) A consistent map in the medial entorhinal cortex supports spatial memory. *Nature communications*, 15(1), 1457.

Cao Z, et al. (2024) Distinct populations of lateral preoptic nucleus neurons jointly contribute to depressive-like behaviors through divergent projections in male mice. *Neurobiology of stress*, 32, 100667.

Grødem S, et al. (2023) An updated suite of viral vectors for in vivo calcium imaging using intracerebral and retro-orbital injections in male mice. *Nature communications*, 14(1), 608.

Tong L, et al. (2023) Single cell in vivo optogenetic stimulation by two-photon excitation fluorescence transfer. *iScience*, 26(10), 107857.

Abdelfattah AS, et al. (2023) Sensitivity optimization of a rhodopsin-based fluorescent voltage indicator. *Neuron*, 111(10), 1547.

Winters BL, et al. (2022) Cannabinoids and Opioids Differentially Target Extrinsic and Intrinsic GABAergic Inputs onto the Periaqueductal Grey Descending Pathway. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 42(41), 7744.

Chia Z, et al. (2020) Synaptic Connectivity between the Cortex and Claustrum Is Organized into Functional Modules. *Current biology : CB*, 30(14), 2777.

Antinucci P, et al. (2020) A calibrated optogenetic toolbox of stable zebrafish opsin lines. *eLife*, 9.