

Resource Summary Report

Generated by [RRID](#) on Aug 25, 2026

pAAV-GFAP104-melanopsin-mCherry

RRID:Addgene_122630

Type: Plasmid

Proper Citation

RRID:Addgene_122630

Plasmid Information

URL: <http://www.addgene.org/122630>

Proper Citation: RRID:Addgene_122630

Insert Name: melanopsin-mCherry

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:30632636](#)

Vector Backbone Description: Backbone Marker:stratagene; Backbone Size:4906; Vector Backbone:pAAV-GFAP104; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: The plasmid is fully sequenced in the coding sequence regions (opsin-fluorophore and important flanking regions). Multiple digestions were done to verify the vector structure. The construct and the virus were both tested in vitro.

Plasmid Name: pAAV-GFAP104-melanopsin-mCherry

Record Creation Time: 20220422T221641+0000

Record Last Update: 20260815T080346+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-GFAP104-melanopsin-mCherry.

No alerts have been found for pAAV-GFAP104-melanopsin-mCherry.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Takahashi TM, et al. (2022) Optogenetic induction of hibernation-like state with modified human Opsin4 in mice. Cell reports methods, 2(11), 100336.

Lim EY, et al. (2021) Potential and Realized Impact of Astroglia Ca²⁺ Dynamics on Circuit Function and Behavior. Frontiers in cellular neuroscience, 15, 682888.

Mederos S, et al. (2020) Melanopsin for Time-Controlling Activation of Astrocyte -Neuron Networks. Methods in molecular biology (Clifton, N.J.), 2173, 53.