# Resource Summary Report

Generated by dkNET on Aug 19, 2026

## pAAV-GFAP104-mCherry

RRID:Addgene_58909
Type: Plasmid

### Proper Citation

RRID:Addgene_58909

### Plasmid Information

**URL:** http://www.addgene.org/58909

**Proper Citation:** RRID:Addgene_58909

**Insert Name:** mCherry

**Organism:** Synthetic

**Bacterial Resistance:** Ampicillin

**Defining Citation:** PMID:24500276

**Vector Backbone Description:** Backbone Size:4895; Vector Backbone:AAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

**Comments:** The depositing lab has sequenced the 5' ITR, promoter, and fluorophore. Multiple digestions were done to verify the vector structure. The construct was tested in vitro and the virus was tested both in vitro and in vivo.

**Plasmid Name:** pAAV-GFAP104-mCherry

**Record Creation Time:** 20220422T222340+0000

**Record Last Update:** 20260815T081719+0000

### Ratings and Alerts

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

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

### Data and Source Information

**Source:** Addgene

## Usage and Citation Metrics

We found 15 mentions in open access literature.

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


Petersen N, et al. (2025) Adenosine A2A Receptors Link Astrocytic ??1-Adrenergic Signaling to Wake-Promoting Dopamine Neurons. Biological psychiatry, 97(9), 915.

Maamrah B, et al. (2025) Chronic Chemogenetic Activation of Astrocytes in the Murine Mesopontine Region Leads to Disturbances in Circadian Activity and Movement. International journal of molecular sciences, 26(10).

Evans WR, et al. (2025) Chemogenetic Control of Striatal Astrocytes Improves Parkinsonian Motor Deficits in Mice. Glia, 73(6), 1188.

Xie Q, et al. (2025) Astrocytic regulation of cocaine locomotor sensitization in EcoHIV infected mice. Neuropharmacology, 265, 110245.

Bree D, et al. (2025) Cortical astrocyte activation triggers meningeal nociception and migraine-like pain. bioRxiv : the preprint server for biology.

Montalban E, et al. (2025) Striatal astrocytes modulate behavioral flexibility and whole-body metabolism in mice. Nature communications, 16(1), 5417.

Phillips CD, et al. (2025) Sex and Time of Day Alter the Interactions Between Hypothalamic Glia and the Neural Circuits Controlling Reproduction. Endocrinology, 166(5).

Lefton KB, et al. (2024) Norepinephrine Signals Through Astrocytes To Modulate Synapses. bioRxiv : the preprint server for biology.

Evans WR, et al. (2024) Functional activation of dorsal striatum astrocytes improves movement deficits in hemi-parkinsonian mice. bioRxiv : the preprint server for biology.

Xie Q, et al. (2024) Astrocytic Regulation of Cocaine Locomotor Sensitization in EcoHIV Infected Mice. bioRxiv : the preprint server for biology.

Csemer A, et al. (2023) Astrocyte- and NMDA receptor-dependent slow inward currents differently contribute to synaptic plasticity in an age-dependent manner in mouse and human neocortex. Aging cell, 22(9), e13939.

Vanacker C, et al. (2021) A role for glial fibrillary acidic protein (GFAP)-expressing cells in the regulation of gonadotropin-releasing hormone (GnRH) but not arcuate kisspeptin neuron output in male mice. eLife, 10.

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

Cavaccini A, et al. (2020) Astrocyte Signaling Gates Long-Term Depression at Corticostriatal Synapses of the Direct Pathway. The Journal of neuroscience : the official journal of the Society for Neuroscience, 40(30), 5757.

Durkee CA, et al. (2019) Gi/o protein-coupled receptors inhibit neurons but activate astrocytes and stimulate gliotransmission. Glia, 67(6), 1076.