

Resource Summary Report

Generated by [NIF](#) on Jul 29, 2026

pAAV.GfaABC1D.PI.Lck-GFP.SV40

RRID:Addgene_105598

Type: Plasmid

Proper Citation

RRID:Addgene_105598

Plasmid Information

URL: <http://www.addgene.org/105598>

Proper Citation: RRID:Addgene_105598

Insert Name: Lck-EGFP

Organism: Other

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23589582](#)

Vector Backbone Description: Vector Backbone:pZac2.1; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: Penn Vector Core plasmid p2369

Plasmid Name: pAAV.GfaABC1D.PI.Lck-GFP.SV40

Record Creation Time: 20220422T221512+0000

Record Last Update: 20260725T073418+0000

Ratings and Alerts

No rating or validation information has been found for pAAV.GfaABC1D.PI.Lck-GFP.SV40.

No alerts have been found for pAAV.GfaABC1D.PI.Lck-GFP.SV40.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Bosworth AP, et al. (2025) Astrocyte glypican 5 regulates synapse maturation and stabilization. *Cell reports*, 44(3), 115374.

Marini M, et al. (2025) Supervised and unsupervised learning reveal heroin-induced impairments in astrocyte structural plasticity. *Science advances*, 11(18), eads6841.

Kastner-Blasczyk AR, et al. (2025) Effect of an astrocyte calcium exporter on orbitofrontal cortex neuron excitability, astrocyte-synaptic interaction, and alcohol consumption. *Neuropharmacology*, 269, 110365.

Testen A, et al. (2025) Abstinence from cocaine self-administration promotes microglial pruning of astrocytes, which drives cocaine-seeking behavior. *Cell reports*, 44(8), 116137.

Bosquez Huerta NA, et al. (2025) Sex-specific astrocyte regulation of spinal motor circuits by Nkx6.1. *Cell reports*, 44(1), 115121.

Coulter O, et al. (2025) Adolescent Alcohol Exposure Disrupts Astrocyte-Synaptic Structural And Functional Coupling In The Male Dorsal Hippocampus. *bioRxiv* : the preprint server for biology.

Heffernan KS, et al. (2024) Scaled Complexity of Mammalian Astrocytes: Insights From Mouse and Macaque. *The Journal of comparative neurology*, 532(8), e25665.

Holt LM, et al. (2024) Astrocytic CREB in nucleus accumbens promotes susceptibility to chronic stress. *bioRxiv* : the preprint server for biology.

Nentwig TB, et al. (2024) Central Amygdala Astrocyte Plasticity Underlies GABAergic Dysregulation in Ethanol Dependence. *bioRxiv* : the preprint server for biology.

Rosenberg MF, et al. (2023) α -Adrenergic Signaling Promotes Morphological Maturation of Astrocytes in Female Mice. *The Journal of neuroscience* : the official journal of the Society for Neuroscience, 43(50), 8621.

Williamson MR, et al. (2023) Subventricular zone cytogenesis provides trophic support for neural repair in a mouse model of stroke. *Nature communications*, 14(1), 6341.

Walker CD, et al. (2022) Diverging Effects of Adolescent Ethanol Exposure on Tripartite Synaptic Development across Prefrontal Cortex Subregions. *Cells*, 11(19).

Nagai J, et al. (2021) Specific and behaviorally consequential astrocyte Gq GPCR signaling attenuation in vivo with i⁺ARK. *Neuron*, 109(14), 2256.

Henneberger C, et al. (2020) LTP Induction Boosts Glutamate Spillover by Driving Withdrawal of Perisynaptic Astroglia. *Neuron*, 108(5), 919.

Testen A, et al. (2020) High-Resolution Three-Dimensional Imaging of Individual Astrocytes Using Confocal Microscopy. *Current protocols in neuroscience*, 91(1), e92.

Yu X, et al. (2020) Context-Specific Striatal Astrocyte Molecular Responses Are Phenotypically Exploitable. *Neuron*, 108(6), 1146.

Holt LM, et al. (2019) Astrocyte morphogenesis is dependent on BDNF signaling via astrocytic TrkB.T1. *eLife*, 8.