

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

pAAV-Ef1a-fDIO-GCaMP6s

RRID:Addgene_105714

Type: Plasmid

Proper Citation

RRID:Addgene_105714

Plasmid Information

URL: <http://www.addgene.org/105714>

Proper Citation: RRID:Addgene_105714

Insert Name: GCaMP6s

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Marker:Karl Deisseroth; Backbone Size:5609; Vector Backbone:pAAV-Ef1a-fDIO hChR2(H134R)-EYFP; Vector Types:Mammalian Expression, AAV, Flp/Frt; Bacterial Resistance:Ampicillin

Plasmid Name: pAAV-Ef1a-fDIO-GCaMP6s

Record Creation Time: 20220422T221513+0000

Record Last Update: 20260725T073419+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-Ef1a-fDIO-GCaMP6s.

No alerts have been found for pAAV-Ef1a-fDIO-GCaMP6s.

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 [NIF](#) .

Walker SJ, et al. (2025) A hypothalamic circuit for anticipating future changes in energy balance. bioRxiv : the preprint server for biology.

Han J, et al. (2025) A top-down insular cortex circuit crucial for non-nociceptive fear learning. Science advances, 11(19), eadt6996.

Chen C, et al. (2024) Neural circuit basis of placebo pain relief. Nature, 632(8027), 1092.

Koga K, et al. (2024) Anterior cingulate cross-hemispheric inhibition via the claustrum resolves painful sensory conflict. Communications biology, 7(1), 330.

Alcantara IC, et al. (2024) A Hypothalamic Circuit that Modulates Feeding and Parenting Behaviors. bioRxiv : the preprint server for biology.

Li C, et al. (2023) Pathway-specific inputs to the superior colliculus support flexible responses to visual threat. Science advances, 9(35), eade3874.

Roethler O, et al. (2023) Single genomic enhancers drive experience-dependent GABAergic plasticity to maintain sensory processing in the adult cortex. Neuron, 111(17), 2693.

Liu S, et al. (2022) Divergent brainstem opioidergic pathways that coordinate breathing with pain and emotions. Neuron, 110(5), 857.

Li M, et al. (2022) Activation of VIP interneurons in the prefrontal cortex ameliorates neuropathic pain aversiveness. Cell reports, 40(11), 111333.

Cohen-Kashi Malina K, et al. (2021) NDNF interneurons in layer 1 gain-modulate whole cortical columns according to an animal's behavioral state. Neuron, 109(13), 2150.