

Resource Summary Report

Generated by [RRID](#) on Aug 17, 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: 20260815T080058+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 11 mentions in open access literature.

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

Land MA, et al. (2026) Designer indicators for two-photon recording of subthreshold voltage dynamics. *Nature methods*, 23(5), 986.

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.