

Resource Summary Report

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

pGP-AAV-syn-jGCaMP7f-WPRE

RRID:Addgene_104488

Type: Plasmid

Proper Citation

RRID:Addgene_104488

Plasmid Information

URL: <http://www.addgene.org/104488>

Proper Citation: RRID:Addgene_104488

Insert Name: jGCaMP7f

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:31209382](#)

Vector Backbone Description: Backbone Size:4579; Vector Backbone:AAV-Syn; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: Please visit <https://www.biorxiv.org/content/10.1101/434589v1> for bioRxiv preprint.

Plasmid Name: pGP-AAV-syn-jGCaMP7f-WPRE

Record Creation Time: 20220422T221507+0000

Record Last Update: 20260725T073407+0000

Ratings and Alerts

No rating or validation information has been found for pGP-AAV-syn-jGCaMP7f-WPRE.

No alerts have been found for pGP-AAV-syn-jGCaMP7f-WPRE.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 73 mentions in open access literature.

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

Jia C, et al. (2025) Social Exclusion Amplifies Behavioral Responses to Physical Pain via Insular Neuromodulation. bioRxiv : the preprint server for biology.

Dorian CC, et al. (2025) Hippocampal sequences represent working memory and implicit timing. Cell reports, 44(10), 116383.

Zhang Z, et al. (2025) A real-time all-optical interface for dynamic perturbation of neural activity during behavior. Cell reports methods, 5(10), 101180.

Rakymzhan A, et al. (2025) Parvalbumin interneurons drive depth-dependent vascular responses. iScience, 28(12), 113965.

Gongwer MW, et al. (2025) Microglia regulate nucleus accumbens synaptic development and circuit function underlying threat avoidance behaviors. Research square.

Rosas-Vidal LE, et al. (2025) Prefrontal correlates of fear generalization during endocannabinoid depletion. The Journal of clinical investigation, 135(11).

Sorrell E, et al. (2025) An optical brain-machine interface reveals a causal role of posterior parietal cortex in goal-directed navigation. Cell reports, 44(7), 115862.

Nejo T, et al. (2025) Glioma-neuronal circuit remodeling induces regional immunosuppression. Nature communications, 16(1), 4770.

Iyer ES, et al. (2025) Reward integration in prefrontal-cortical and ventral-hippocampal nucleus accumbens inputs cooperatively modulates engagement. Nature communications, 16(1), 3573.

Lee CR, et al. (2025) Separable dorsal raphe dopamine projections mimic the facets of a loneliness-like state. eLife, 14.

Lind BL, et al. (2025) In vivo two-photon microscopy for studies of neurovascular coupling in rodents: a beginner's guide. Neurophotonics, 12(Suppl 2), S22808.

Kayat LS, et al. (2025) Ex Vivo Modulation of the BNST by Parabrachial CGRP Projections Is Decreased After a History of Stress-Induced Anxiety. The European journal of neuroscience, 62(9), e70268.

Hatakeyama A, et al. (2025) Protocol for wide-field brainstem imaging largely preserving the overlying cerebellum. STAR protocols, 6(4), 104258.

Kinsky NR, et al. (2025) Erasable hippocampal neural signatures predict memory discrimination. Cell reports, 44(3), 115391.

Ravasio CR, et al. (2025) Kilohertz electrical stimulation evokes robust cellular responses like conventional frequencies but distinct population dynamics. Communications biology,

8(1), 19.

Sosa M, et al. (2025) A flexible hippocampal population code for experience relative to reward. *Nature neuroscience*, 28(7), 1497.

Agetsuma M, et al. (2025) Minimally invasive, wide-field two-photon imaging of the brainstem at cellular resolution. *Cell reports methods*, 5(4), 101010.

??hrlund-Richter S, et al. (2025) Distinct roles of prefrontal subregion feedback to the primary visual cortex across behavioral states. *Neuron*.

Kwan WC, et al. (2025) Hybrid optogenetic and electrical stimulation of retinal ganglion cells for artificial vision. *Brain stimulation*, 19(1), 103012.

Madrugá BA, et al. (2025) Open-source, high performance miniature 2-photon microscopy systems for freely behaving animals. *Nature communications*, 16(1), 7125.