

Resource Summary Report

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

pGP-AAV-syn-FLEX-jGCaMP7b-WPRE

RRID:Addgene_104493

Type: Plasmid

Proper Citation

RRID:Addgene_104493

Plasmid Information

URL: <http://www.addgene.org/104493>

Proper Citation: RRID:Addgene_104493

Insert Name: jGCaMP7b

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:31209382](#)

Vector Backbone Description: Backbone Marker:Scott Sternson; Backbone Size:4894; Vector Backbone:AAV-Syn-FLEX; Vector Types:Mammalian Expression, AAV, Cre/Lox; Bacterial Resistance:Ampicillin

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

Plasmid Name: pGP-AAV-syn-FLEX-jGCaMP7b-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-FLEX-jGCaMP7b-WPRE.

No alerts have been found for pGP-AAV-syn-FLEX-jGCaMP7b-WPRE.

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 [NIF](#) .

Mochizuki Y, et al. (2025) Distinct neural responses of ventromedial prefrontal cortex-projecting nucleus reuniens neurons during aversive memory extinction. *Molecular brain*, 18(1), 18.

Yu Y, et al. (2024) Comprehensive software suite for functional analysis and synaptic input mapping of dendritic spines imaged in vivo. *Neurophotonics*, 11(2), 024307.

Li X, et al. (2024) Link Brain-Wide Projectome to Neuronal Dynamics in the Mouse Brain. *Neuroscience bulletin*.

Bender PTR, et al. (2023) Synaptic zinc potentiates AMPA receptor function in mouse auditory cortex. *Cell reports*, 42(8), 112932.

Deem JD, et al. (2023) Identification of Hypothalamic Glucoregulatory Neurons That Sense and Respond to Changes in Glycemia. *Diabetes*, 72(9), 1207.

Yoneda T, et al. (2023) Experience-dependent functional plasticity and visual response selectivity of surviving subplate neurons in the mouse visual cortex. *Proceedings of the National Academy of Sciences of the United States of America*, 120(9), e2217011120.

Xue X, et al. (2022) Inferring monosynaptic connections from paired dendritic spine Ca2+imaging and large-scale recording of extracellular spiking. *Journal of neural engineering*, 19(4), 046044.

Breton-Provencher V, et al. (2022) Spatiotemporal dynamics of noradrenaline during learned behaviour. *Nature*, 606(7915), 732.

Franco LM, et al. (2021) A distributed circuit for associating environmental context with motor choice in retrosplenial cortex. *Science advances*, 7(35).

Ota K, et al. (2021) Fast, cell-resolution, contiguous-wide two-photon imaging to reveal functional network architectures across multi-modal cortical areas. *Neuron*, 109(11), 1810.

Lee HS, et al. (2020) Successful In vivo Calcium Imaging with a Head-Mount Miniaturized Microscope in the Amygdala of Freely Behaving Mouse. *Journal of visualized experiments : JoVE*(162).