

Resource Summary Report

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

pGP-CMV-jGCaMP7s

RRID:Addgene_104463

Type: Plasmid

Proper Citation

RRID:Addgene_104463

Plasmid Information

URL: <http://www.addgene.org/104463>

Proper Citation: RRID:Addgene_104463

Insert Name: jGCaMP7s

Organism: Rattus norvegicus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:31209382](#)

Vector Backbone Description: Vector Backbone:pCMV; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

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

Plasmid Name: pGP-CMV-jGCaMP7s

Record Creation Time: 20220422T221507+0000

Record Last Update: 20260725T073407+0000

Ratings and Alerts

No rating or validation information has been found for pGP-CMV-jGCaMP7s.

No alerts have been found for pGP-CMV-jGCaMP7s.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Mitchell SJ, et al. (2025) Micro-sub regional synapse weakening by mimicking the hyperphosphorylation of microtubule associated protein Tau in dendritic spines. Brain communications, 7(3), fcaf234.

Jin L, et al. (2024) Long-term labeling and imaging of synaptically connected neuronal networks in vivo using double-deletion-mutant rabies viruses. Nature neuroscience, 27(2), 373.

Piers TM, et al. (2024) WNT7A-positive dendritic cytonemes control synaptogenesis in cortical neurons. Development (Cambridge, England), 151(23).

Quintanilla MA, et al. (2024) Local monomer levels and established filaments potentiate non-muscle myosin 2 assembly. The Journal of cell biology, 223(4).

Ran L, et al. (2023) KCNN4 links PIEZO-dependent mechanotransduction to NLRP3 inflammasome activation. Science immunology, 8(90), eadf4699.

Toperzer KM, et al. (2023) Visualization of the biphasic calcium wave during fertilization in Caenorhabditis elegans using a genetically encoded calcium indicator. Biology open, 12(9).

Shen J, et al. (2023) Mechanism of Ca²⁺ transport by ferroportin. eLife, 12.

Quintanilla MA, et al. (2023) Local Monomer Levels and Established Filaments Potentiate Non-Muscle Myosin 2 Assembly. bioRxiv : the preprint server for biology.

Li S, et al. (2022) Inhibition of L-type voltage-gated calcium channel-mediated Ca²⁺ influx suppresses the collective migration and invasion of ameloblastoma. Cell proliferation, 55(11), e13305.

Almeida RG, et al. (2021) Myelination induces axonal hotspots of synaptic vesicle fusion that promote sheath growth. Current biology : CB, 31(17), 3743.

Xie Z, et al. (2021) Transcriptomic encoding of sensorimotor transformation in the midbrain. eLife, 10.

Sauvola CW, et al. (2021) The decoy SNARE Tomosyn sets tonic versus phasic release properties and is required for homeostatic synaptic plasticity. eLife, 10.

Dana H, et al. (2019) High-performance calcium sensors for imaging activity in neuronal populations and microcompartments. Nature methods, 16(7), 649.