

Resource Summary Report

Generated by [RRID](#) on Aug 19, 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: 20260815T080042+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 14 mentions in open access literature.

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

Demeulenaere SK, et al. (2026) Vascular Smooth Muscle Myosin 2 Filaments Dynamically Assemble and Stabilize During Induced Contractility. *bioRxiv : the preprint server for biology*.

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.