

Resource Summary Report

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

pGP-CMV-GCaMP6s

RRID:Addgene_40753

Type: Plasmid

Proper Citation

RRID:Addgene_40753

Plasmid Information

URL: <http://www.addgene.org/40753>

Proper Citation: RRID:Addgene_40753

Insert Name: GCaMP6s

Organism: Rattus norvegicus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:23868258](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:3955; Vector Backbone:pEGFP-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pGP-CMV-GCaMP6s

Record Creation Time: 20220422T222211+0000

Record Last Update: 20260725T074645+0000

Ratings and Alerts

No rating or validation information has been found for pGP-CMV-GCaMP6s.

No alerts have been found for pGP-CMV-GCaMP6s.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 180 mentions in open access literature.

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

Wiegel J, et al. (2025) Spontaneous Calcium Bursts Organize the Apical Actin Cytoskeleton of Multiciliated Cells. *International journal of molecular sciences*, 26(6).

Chen R, et al. (2025) Lysosomal TMEM165 controls cellular ion homeostasis and survival by mediating lysosomal Ca²⁺ import and H⁺ efflux. *Nature communications*, 16(1), 5209.

Yadav P, et al. (2025) Identification of Phialomustin?B (PHL-B) as a Novel Natural TRPA1 Channel Inhibitor. *ACS omega*, 10(34), 39192.

Hori S, et al. (2025) Male *Caenorhabditis elegans* optimizes avoidance behavior against acute and chronic stress for successful mating with hermaphrodites. *Zoological letters*, 11(1), 4.

van der Linden FH, et al. (2025) A green lifetime biosensor for calcium that remains bright over its full dynamic range. *eLife*, 14.

Zhan C, et al. (2025) RBOHD, GLR3.3, and GLR3.6 cooperatively control wounding hypocotyl-induced systemic Ca²⁺ signals, jasmonic acid, and glucosinolates in *Arabidopsis* leaves. *Plant diversity*, 47(4), 690.

Kar N, et al. (2025) The activation of INF2 by Piezo1/Ca²⁺ is required for mesenchymal-to-amoeoid transition in confined environments. *Current biology : CB*, 35(8), 1791.

Cornut C, et al. (2025) Glutathione as a taste modulator: molecular mechanisms of interaction with umami and sweet taste receptors. *Food chemistry. Molecular sciences*, 11, 100319.

Bapat O, et al. (2024) VAP spatially stabilizes dendritic mitochondria to locally support synaptic plasticity. *Nature communications*, 15(1), 205.

Balashova OA, et al. (2024) Noncanonical function of folate through folate receptor 1 during neural tube formation. *Nature communications*, 15(1), 1642.

Zeledon EV, et al. (2024) Next Generation Neuropeptide Y Receptor Small Molecule Agonists Inhibit Mosquito Biting Behavior. *bioRxiv : the preprint server for biology*.

Zeledon EV, et al. (2024) Next-generation neuropeptide Y receptor small-molecule agonists inhibit mosquito-biting behavior. *Parasites & vectors*, 17(1), 276.

Wang S, et al. (2024) Reconstructing Signaling Networks Using Biosensor Barcoding. *Methods in molecular biology (Clifton, N.J.)*, 2800, 189.

Coscia SM, et al. (2024) An interphase actin wave promotes mitochondrial content mixing and organelle homeostasis. *Nature communications*, 15(1), 3793.

Weesner JA, et al. (2024) Altered GM1 catabolism affects NMDAR-mediated Ca²⁺ signaling at ER-PM junctions and increases synaptic spine formation in a GM1-gangliosidosis model. *Cell reports*, 43(5), 114117.

Amiri F, et al. (2024) Confinement controls the directional cell responses to fluid forces. *Cell reports*, 43(9), 114692.

Suzuki T, et al. (2024) The odor of a nontoxic tetrodotoxin analog, 5,6,11-trideoxytetrodotoxin, is detected by specific olfactory sensory neurons of the green spotted puffers. *Chemical senses*, 49.

Prikhodko O, et al. (2024) Amyloid- β Causes NMDA Receptor Dysfunction and Dendritic Spine Loss through mGluR1 and AKAP150-Anchored Calcineurin Signaling. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(37).

Donowitz M, et al. (2024) COVID-19 Diarrhea Is Inflammatory, Caused by Direct Viral Effects Plus Major Role of Virus-induced Cytokines. *Cellular and molecular gastroenterology and hepatology*, 18(5), 101383.

Matsui T, et al. (2024) Orthogonalization of spontaneous and stimulus-driven activity by hierarchical neocortical areal network in primates. *Nature communications*, 15(1), 10055.