

Resource Summary Report

Generated by [RRID](#) on Aug 17, 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: 20260815T081438+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 189 mentions in open access literature.

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

Lim L, et al. (2026) Bioelectronic synthesis of hydrogen sulfide enables spatiotemporal regulation of protein modification and cellular redox. *Science advances*, 12(12), eaeb3401.

Li VJ, et al. (2026) Protocol for blastomere injection to generate bilateral hemimosaic *Xenopus* tadpoles. *STAR protocols*, 7(1), 104387.

Ba W, et al. (2026) Wake-active brainstem GABA neurons signal sleep pressure by upregulating AMPA receptors to drive recovery sleep. *Current biology : CB*, 36(11), 2823.

Choi M, et al. (2026) Allosteric Biosensors Unravel GTPase-Effector Feedback. *bioRxiv : the preprint server for biology*.

Bressan C, et al. (2026) Cilia beating of ependymal cells regulates adult neural stem cell quiescence via mechanical forces mediated by PKD1/2-TRPM3. *Neuron*.

Goyal R, et al. (2026) Vesicular Glutamate Release Is Necessary for Neural Tube Formation. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 46(11).

Le T, et al. (2026) Lipid scrambling via TMEM16F mediates the formation and release of extracellular vesicles. *Molecular biology of the cell*, 37(3), ar22.

Benfey NJ, et al. (2026) Norepinephrine acts through radial astrocytes in the developing optic tectum to enhance threat detection and escape behavior. *Cell reports*, 45(2), 116911.

Wada S, et al. (2026) Neural circuits for decision-making based on pineal photoreception in zebrafish. *Proceedings of the National Academy of Sciences of the United States of America*, 123(14), e2520290123.

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

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

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

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.

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.

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

Zhan C, et al. (2025) RBOHD, GLR3.3, and GLR3.6 cooperatively control wounding hypocotyl-induced systemic Ca^{2+} signals, jasmonic acid, and glucosinolates in *Arabidopsis* leaves. *Plant diversity*, 47(4), 690.

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*.