Resource Summary Report

Generated by RRID on Aug 19, 2026

pGP-CMV-GCaMP6m

RRID:Addgene_40754
Type: Plasmid

Proper Citation

RRID:Addgene_40754

Plasmid Information

URL: http://www.addgene.org/40754

Proper Citation: RRID:Addgene_40754

Insert Name: GCaMP6m

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-GCaMP6m

Record Creation Time: 20220422T222211+0000

Record Last Update: 20260815T081438+0000

Ratings and Alerts

No rating or validation information has been found for pGP-CMV-GCaMP6m.

No alerts have been found for pGP-CMV-GCaMP6m.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 61 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Kawanabe-Kobayashi R, et al. (2026) Descending locus coeruleus noradrenergic signaling to spinal astrocyte subset is required for stress-induced mechanical pain hypersensitivity. eLife, 14.

Köhler I, et al. (2025) Chemogenetic activation of Gq signaling modulates dendritic development of cortical neurons in a time- and layer-specific manner. Frontiers in cellular neuroscience, 19, 1524470.

Peinado P, et al. (2025) Intrinsic electrical activity drives small-cell lung cancer progression. Nature, 639(8055), 765.

Ciceri G, et al. (2024) An epigenetic barrier sets the timing of human neuronal maturation. Nature, 626(8000), 881.

Walsh RM, et al. (2024) Generation of human cerebral organoids with a structured outer subventricular zone. Cell reports, 43(4), 114031.

So CL, et al. (2024) Cellular geometry and epithelial-mesenchymal plasticity intersect with PIEZO1 in breast cancer cells. Communications biology, 7(1), 467.

Gunaratne GS, et al. (2023) Progesterone receptor membrane component 1 facilitates Ca2+ signal amplification between endosomes and the endoplasmic reticulum. The Journal of biological chemistry, 299(12), 105378.

Gunaratne GS, et al. (2023) Convergent activation of two-pore channels mediated by the NAADP-binding proteins JPT2 and LSM12. Science signaling, 16(799), eadg0485.

Chambers AR, et al. (2023) A stable sensory map emerges from a dynamic equilibrium of neurons with unstable tuning properties. Cerebral cortex (New York, N.Y. : 1991), 33(9), 5597.

Surdin T, et al. (2023) Optogenetic activation of mGluR1 signaling in the cerebellum induces synaptic plasticity. iScience, 26(1), 105828.

Balderas E, et al. (2022) Mitochondrial calcium uniporter stabilization preserves energetic homeostasis during Complex I impairment. Nature communications, 13(1), 2769.

Varadarajan S, et al. (2022) Mechanosensitive calcium flashes promote sustained RhoA activation during tight junction remodeling. The Journal of cell biology, 221(4).

Maity D, et al. (2022) Extracellular Hydraulic Resistance Enhances Cell Migration. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 9(29), e2200927.

Ren Y, et al. (2022) KCTD8 and KCTD12 Facilitate Axonal Expression of GABAB Receptors in Habenula Cholinergic Neurons. The Journal of neuroscience : the official journal of the Society for Neuroscience, 42(9), 1648.

Gunaratne GS, et al. (2022) Identification of a dihydropyridine scaffold that blocks ryanodine receptors. iScience, 25(1), 103706.

Aschauer DF, et al. (2022) Learning-induced biases in the ongoing dynamics of sensory representations predict stimulus generalization. Cell reports, 38(6), 110340.

So CL, et al. (2022) Increased matrix stiffness suppresses ATP-induced sustained Ca2+ influx in MDA-MB-231 breast cancer cells. Cell calcium, 104, 102569.

Zhang YL, et al. (2022) Novel Fluorescence-Based High-Throughput FLIPR Assay Utilizing Membrane-Tethered Genetic Calcium Sensors to Identify T-Type Calcium Channel Modulators. ACS pharmacology & translational science, 5(3), 156.

Chamberlain NB, et al. (2022) Chlamydia trachomatis suppresses host cell store-operated Ca2+ entry and inhibits NFAT/calcineurin signaling. Scientific reports, 12(1), 21406.

Gasterstädt I, et al. (2022) Chemogenetic Silencing of Differentiating Cortical Neurons Impairs Dendritic and Axonal Growth. Frontiers in cellular neuroscience, 16, 941620.