

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

pGP-CMV-GCaMP6s-CAAX

RRID:Addgene_52228

Type: Plasmid

Proper Citation

RRID:Addgene_52228

Plasmid Information

URL: <http://www.addgene.org/52228>

Proper Citation: RRID:Addgene_52228

Insert Name: GCaMP6s-CAAX

Organism: Synthetic

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:24463606](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4005; Vector Backbone:pEGFP-N1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: GCaMP6s (Addgene plasmid 40753) tagged with CAAX motif (amino acids KEKMSKDGKKKKKKSKTKCVIM)

Plasmid Name: pGP-CMV-GCaMP6s-CAAX

Record Creation Time: 20220422T222306+0000

Record Last Update: 20260815T081621+0000

Ratings and Alerts

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

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

Data and Source Information

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Iu E, et al. (2026) A TRPV4-dependent calcium signaling axis regulates lamellipodial actin architecture to promote cell migration. *Current biology : CB*, 36(4), 995.

Motso A, et al. (2025) GRK-biased adrenergic agonists for the treatment of type 2 diabetes and obesity. *Cell*.

Wang Q, et al. (2023) A gain-of-function TPC2 variant R210C increases affinity to PI(3,5)P2 and causes lysosome acidification and hypopigmentation. *Nature communications*, 14(1), 226.

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.

Aoki K, et al. (2021) STIM-Orai1 signaling regulates fluidity of cytoplasm during membrane blebbing. *Nature communications*, 12(1), 480.

Klenow MB, et al. (2021) Timescale of hole closure during plasma membrane repair estimated by calcium imaging and numerical modeling. *Scientific reports*, 11(1), 4226.

Yang JM, et al. (2021) Deciphering cell signaling networks with massively multiplexed biosensor barcoding. *Cell*, 184(25), 6193.

Ma G, et al. (2020) Optogenetic engineering to probe the molecular choreography of STIM1-mediated cell signaling. *Nature communications*, 11(1), 1039.

Xiang Y, et al. (2020) Dysregulation of BRD4 Function Underlies the Functional Abnormalities of MeCP2 Mutant Neurons. *Molecular cell*, 79(1), 84.

Tiscione SA, et al. (2019) Disease-associated mutations in Niemann-Pick type C1 alter ER calcium signaling and neuronal plasticity. *The Journal of cell biology*, 218(12), 4141.

Kim JM, et al. (2018) Voltage-dependent Ca²⁺ channels promote branching morphogenesis of salivary glands by patterning differential growth. *Scientific reports*, 8(1), 7566.

Welliver RR, et al. (2018) Muscarinic Receptor M3R Signaling Prevents Efficient Remyelination by Human and Mouse Oligodendrocyte Progenitor Cells. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 38(31), 6921.

He L, et al. (2015) Near-infrared photoactivatable control of Ca(2+) signaling and optogenetic immunomodulation. *eLife*, 4.