

Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 6, 2025

pGP-CMV-GCaMP6f

RRID:Addgene_40755

Type: Plasmid

Proper Citation

RRID:Addgene_40755

Plasmid Information

URL: <http://www.addgene.org/40755>

Proper Citation: RRID:Addgene_40755

Insert Name: GCaMP6f

Organism: Rattus norvegicus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:23868258](https://pubmed.ncbi.nlm.nih.gov/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-GCaMP6f

Record Creation Time: 20220422T222211+0000

Record Last Update: 20220422T224011+0000

Ratings and Alerts

No rating or validation information has been found for pGP-CMV-GCaMP6f.

No alerts have been found for pGP-CMV-GCaMP6f.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 35 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Jab?rek M, et al. (2024) Mitochondria to plasma membrane redox signaling is essential for fatty acid β -oxidation-driven insulin secretion. *Redox biology*, 75, 103283.

Lee R, et al. (2024) Co-activation of selective nicotinic acetylcholine receptor subtypes is required to reverse hippocampal network dysfunction and prevent fear memory loss in Alzheimer's disease. *bioRxiv : the preprint server for biology*.

Rimbault C, et al. (2024) Engineering paralog-specific PSD-95 recombinant binders as minimally interfering multimodal probes for advanced imaging techniques. *eLife*, 13.

Kim N, et al. (2024) Delayed recruitment of activity-dependent bulk endocytosis in Fmr1 knockout neurons. *Journal of neurochemistry*, 168(9), 3019.

Mesa D, et al. (2024) A tripartite organelle platform links growth factor receptor signaling to mitochondrial metabolism. *Nature communications*, 15(1), 5119.

Depetris-Chauvin A, et al. (2023) Evolution at multiple processing levels underlies odor-guided behavior in the genus *Drosophila*. *Current biology : CB*, 33(22), 4771.

Obeng B, et al. (2023) Pharmaceutical agent cetylpyridinium chloride inhibits immune mast cell function by interfering with calcium mobilization. *bioRxiv : the preprint server for biology*.

He HY, et al. (2023) Neuronal membrane proteasomes regulate neuronal circuit activity in vivo and are required for learning-induced behavioral plasticity. *Proceedings of the National Academy of Sciences of the United States of America*, 120(3), e2216537120.

Obara K, et al. (2023) Change detection in the primate auditory cortex through feedback of prediction error signals. *Nature communications*, 14(1), 6981.

Socodato R, et al. (2023) RhoA balances microglial reactivity and survival during neuroinflammation. *Cell death & disease*, 14(10), 690.

Obeng B, et al. (2023) Pharmaceutical agent cetylpyridinium chloride inhibits immune mast cell function by interfering with calcium mobilization. *Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association*, 179, 113980.

Cook DC, et al. (2023) GABABR silencing of nerve terminals. *eLife*, 12.

Raïs C, et al. (2023) Functional maturation of human iPSC-derived pyramidal neurons in vivo

is dependent on proximity with the host tissue. *Frontiers in cellular neuroscience*, 17, 1259712.

Dinamarca MC, et al. (2023) Transmission-selective muscle pathology induced by the active propagation of mutant huntingtin across the human neuromuscular synapse. *Frontiers in molecular neuroscience*, 16, 1287510.

Efremov AK, et al. (2022) Application of piconewton forces to individual filopodia reveals mechanosensory role of L-type Ca²⁺ channels. *Biomaterials*, 284, 121477.

Bonnycastle K, et al. (2022) FMRP Sustains Presynaptic Function via Control of Activity-Dependent Bulk Endocytosis. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 42(8), 1618.

Afzal J, et al. (2022) Cardiac ultrastructure inspired matrix induces advanced metabolic and functional maturation of differentiated human cardiomyocytes. *Cell reports*, 40(4), 111146.

Gaspers LD, et al. (2021) Ethanol Disrupts Hormone-Induced Calcium Signaling in Liver. *Function (Oxford, England)*, 2(2), zqab002.

Klima JC, et al. (2021) Incorporation of sensing modalities into de novo designed fluorescence-activating proteins. *Nature communications*, 12(1), 856.

de Lamotte JD, et al. (2021) Optogenetically controlled human functional motor endplate for testing botulinum neurotoxins. *Stem cell research & therapy*, 12(1), 599.