

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

pGP-CMV-NES-jRCaMP1b

RRID:Addgene_63136

Type: Plasmid

Proper Citation

RRID:Addgene_63136

Plasmid Information

URL: <http://www.addgene.org/63136>

Proper Citation: RRID:Addgene_63136

Insert Name: NES-jRCaMP1b

Organism: Rattus norvegicus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:27011354](#)

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

Plasmid Name: pGP-CMV-NES-jRCaMP1b

Record Creation Time: 20220422T222401+0000

Record Last Update: 20260815T081759+0000

Ratings and Alerts

No rating or validation information has been found for pGP-CMV-NES-jRCaMP1b.

No alerts have been found for pGP-CMV-NES-jRCaMP1b.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Chalmers SB, et al. (2025) Remodeling of calcium signaling and store operated calcium entry as a consequence of human neural progenitor cell differentiation. Scientific reports, 15(1), 38867.

Li A, et al. (2025) TRIC-A Facilitates Sarcoplasmic Reticulum-Mitochondrial Ca²⁺ Signaling Crosstalk in Cardiomyocytes. Cells, 14(20).

Li Y, et al. (2024) Mechanisms of Glioblastoma Replication: Ca²⁺ Flares and Cl⁻ Currents. Molecular cancer research : MCR, 22(9), 852.

Peussa H, et al. (2023) Light-Induced Nanoscale Deformation in Azobenzene Thin Film Triggers Rapid Intracellular Ca²⁺ Increase via Mechanosensitive Cation Channels. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 10(35), e2206190.

Pavlou M, et al. (2022) A Bioengineered In Vitro Model to Assess AAV-Based Gene Therapies for Cyclic GMP-Related Disorders. International journal of molecular sciences, 23(9).

Ernst P, et al. (2021) Investigation into the difference in mitochondrial-cytosolic calcium coupling between adult cardiomyocyte and hiPSC-CM using a novel multifunctional genetic probe. Pflugers Archiv : European journal of physiology, 473(3), 447.

Li A, et al. (2021) Butyrate Feeding Reverses CypD-Related Mitoflash Phenotypes in Mouse Myofibers. International journal of molecular sciences, 22(14).

Li J, et al. (2020) Visible light excited ratiometric-GECIs for long-term in-cellulo monitoring of calcium signals. Cell calcium, 87, 102165.

Vella SA, et al. (2020) Genetic Indicators for Calcium Signaling Studies in Toxoplasma gondii. Methods in molecular biology (Clifton, N.J.), 2071, 187.

Zada D, et al. (2019) Sleep increases chromosome dynamics to enable reduction of accumulating DNA damage in single neurons. Nature communications, 10(1), 895.

Afshar Saber W, et al. (2018) All-Optical Assay to Study Biological Neural Networks. Frontiers in neuroscience, 12, 451.

Li A, et al. (2018) Calcium oscillations coordinate feather mesenchymal cell movement by SHH dependent modulation of gap junction networks. Nature communications, 9(1), 5377.

de Juan-Sanz J, et al. (2017) Axonal Endoplasmic Reticulum Ca²⁺ Content Controls Release Probability in CNS Nerve Terminals. Neuron, 93(4), 867.