Resource Summary Report

Generated by dkNET on Aug 7, 2026

pGP-CMV-NES-jRCaMP1a

RRID:Addgene_61562
Type: Plasmid

Proper Citation

RRID:Addgene_61562

Plasmid Information

URL: http://www.addgene.org/61562

Proper Citation: RRID:Addgene_61562

Insert Name: NES-jRCaMP1a

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-jRCaMP1a

Record Creation Time: 20220422T222353+0000

Record Last Update: 20260801T081601+0000

Ratings and Alerts

No rating or validation information has been found for pGP-CMV-NES-jRCaMP1a.

No alerts have been found for pGP-CMV-NES-jRCaMP1a.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Fink R, et al. (2026) PinkyCaMP: an mScarlet-based calcium sensor with enhanced brightness, photostability and multiplexing capabilities. Nature methods, 23(5), 998.

Fink R, et al. (2025) PinkyCaMP a mScarlet-based calcium sensor with exceptional brightness, photostability, and multiplexing capabilities. bioRxiv : the preprint server for biology.

Arnold D, et al. (2025) Rotation Kinetics of Molecular Motors Influence Their Ability to Kill Cancer Cells and Induce Cellular Calcium Signaling. Journal of the American Chemical Society, 147(26), 22387.

Tong L, et al. (2023) Single cell in??vivo optogenetic stimulation by two-photon excitation fluorescence transfer. iScience, 26(10), 107857.

Seidman RA, et al. (2022) Oscillatory calcium release and sustained store-operated oscillatory calcium signaling prevents differentiation of human oligodendrocyte progenitor cells. Scientific reports, 12(1), 6160.

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).

Forli A, et al. (2021) Optogenetic strategies for high-efficiency all-optical interrogation using blue-light-sensitive opsins. eLife, 10.

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

Farhi SL, et al. (2019) Wide-Area All-Optical Neurophysiology in Acute Brain Slices. The Journal of neuroscience : the official journal of the Society for Neuroscience, 39(25), 4889.

Kerruth S, et al. (2019) The kinetic mechanisms of fast-decay red-fluorescent genetically encoded calcium indicators. The Journal of biological chemistry, 294(11), 3934.

Maneshi MM, et al. (2018) Heterogeneous Cytoskeletal Force Distribution Delineates the Onset Ca2+ Influx Under Fluid Shear Stress in Astrocytes. Frontiers in cellular neuroscience, 12, 69.

Gaub BM, et al. (2017) Mechanical Stimulation of Piezo1 Receptors Depends on Extracellular Matrix Proteins and Directionality of Force. Nano letters, 17(3), 2064.

Huang CY, et al. (2017) K+ Channel Kv3.4 Is Essential for Axon Growth by Limiting the Influx of Ca2+ into Growth Cones. The Journal of neuroscience : the official journal of the Society for Neuroscience, 37(17), 4433.

Qudrat A, et al. (2017) Autonomous Cell Migration to CSF1 Sources via a Synthetic Protein-Based System. ACS synthetic biology, 6(8), 1563.