Resource Summary Report

Generated by dkNET on Aug 19, 2026

pCMV G-CEPIA1er

RRID:Addgene_58215
Type: Plasmid

Proper Citation

RRID:Addgene_58215

Plasmid Information

URL: http://www.addgene.org/58215

Proper Citation: RRID:Addgene_58215

Insert Name: G-CEPIA1er

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: PMID:24923787

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:4819; Vector Backbone:pCMV/myc/ER; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pCMV G-CEPIA1er

Relevant Mutation: G-GECO1.1 E299D M304L D328N N345K F360W G369S E372D V395E D401E

Record Creation Time: 20220422T222337+0000

Record Last Update: 20260815T081714+0000

Ratings and Alerts

No rating or validation information has been found for pCMV G-CEPIA1er.

No alerts have been found for pCMV G-CEPIA1er.

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 dkNET .

Xia C, et al. (2026) Natural photosynthetic system for restoring homeostasis of animal organelle interaction network. Nature communications, 17(1).

Liu H, et al. (2025) Peroxynitrite regulates ER stress-mediated Ca2+ flux to mitochondria characterizing cardiac microvascular ischemia-reperfusion injury associated with hyperhomocysteinemia. Journal of translational medicine, 23(1), 1254.

Delrio-Lorenzo A, et al. (2024) In vitro and in vivo calibration of low affinity genetic Ca2+ indicators. Cell calcium, 117, 102819.

Lopez-Charcas O, et al. (2024) Blockade of CaV3 calcium channels and induction of G0/G1 cell cycle arrest in colon cancer cells by gossypol. British journal of pharmacology, 181(22), 4546.

Hanitrarimalala V, et al. (2024) Intracellular cartilage oligomeric matrix protein augments breast cancer resistance to chemotherapy. Cell death & disease, 15(7), 480.

Zhao J, et al. (2024) Tripeptidyl peptidase II coordinates the homeostasis of calcium and lipids in the central nervous system and its depletion causes presenile dementia in female mice through calcium/lipid dyshomeostasis-induced autophagic degradation of CYP19A1. Theranostics, 14(4), 1390.

Ryu JE, et al. (2024) Circadian regulation of endoplasmic reticulum calcium response in cultured mouse astrocytes. eLife, 13.

Jeyarajan S, et al. (2023) Simultaneous Measurement of Changes in Mitochondrial and Endoplasmic Reticulum Free Calcium in Pancreatic Beta Cells. Biosensors, 13(3).

Sánchez-Vázquez VH, et al. (2023) Heterogeneity of the endoplasmic reticulum Ca2+ store determines colocalization with mitochondria. Cell calcium, 109, 102688.

Koval OM, et al. (2023) Regulation of Smooth Muscle Cell Proliferation by Mitochondrial Ca2+ in Type 2 Diabetes. International journal of molecular sciences, 24(16).

Koval OM, et al. (2023) The mitochondrial regulation of smooth muscle cell proliferation in type 2 diabetes. bioRxiv : the preprint server for biology.

Knutson KR, et al. (2023) Intestinal enteroendocrine cells rely on ryanodine and IP3 calcium store receptors for mechanotransduction. The Journal of physiology, 601(2), 287.

Yip KP, et al. (2023) Epac induces ryanodine receptor-dependent intracellular and inter-organellar calcium mobilization in mpkCCD cells. Frontiers in physiology, 14, 1250273.

Guo J, et al. (2022) CamelliA-based simultaneous imaging of Ca2+ dynamics in subcellular compartments. Plant physiology, 188(4), 2253.

Tang W, et al. (2022) Protocol to photoactivate adipose-derived stem cell differentiation using a tightly-focused femtosecond laser. STAR protocols, 3(3), 101574.

Tang W, et al. (2022) Stem cell differentiation with consistent lineage commitment induced by a flash of ultrafast-laser activation in vitro and in vivo. Cell reports, 38(10), 110486.

Rossi AM, et al. (2021) Quantal Ca2+ release mediated by very few IP3 receptors that rapidly inactivate allows graded responses to IP3. Cell reports, 37(5), 109932.

Cantonero C, et al. (2020) PGRMC1 Inhibits Progesterone-Evoked Proliferation and Ca2+ Entry Via STIM2 in MDA-MB-231 Cells. International journal of molecular sciences, 21(20).

Maneshi MM, et al. (2020) Orai1 Channels Are Essential for Amplification of Glutamate-Evoked Ca2+ Signals in Dendritic Spines to Regulate Working and Associative Memory. Cell reports, 33(9), 108464.

Hamilton S, et al. (2020) Increased RyR2 activity is exacerbated by calcium leak-induced mitochondrial ROS. Basic research in cardiology, 115(4), 38.