

Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

pCMV CEPIA4mt

RRID:Addgene_58220

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/58220>

Proper Citation: RRID:Addgene_58220

Insert Name: CEPIA4mt

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24923787](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:4799; Vector Backbone:pCMV/myc/mito; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pCMV CEPIA4mt

Relevant Mutation: GCaMP2 N263Y E282V E334D M339L F395W D436E

Record Creation Time: 20220422T222337+0000

Record Last Update: 20260815T081714+0000

Ratings and Alerts

No rating or validation information has been found for pCMV CEPIA4mt.

No alerts have been found for pCMV CEPIA4mt.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Endoni BT, et al. (2025) MIRO1 Is Required for Dynamic Increases in Mitochondria-ER Contact Sites and Mitochondrial ATP During the Cell Cycle. *Cells*, 14(7).

Roberts RE, et al. (2020) EPIC3, a novel Ca²⁺ indicator located at the cell cortex and in microridges, detects high Ca²⁺ subdomains during Ca²⁺ influx and phagocytosis. *Cell calcium*, 92, 102291.

Oliva MK, et al. (2020) Endoplasmic Reticulum Lumenal Indicators in *Drosophila* Reveal Effects of HSP-Related Mutations on Endoplasmic Reticulum Calcium Dynamics. *Frontiers in neuroscience*, 14, 816.