

# Resource Summary Report

Generated by [dkNET](#) on Aug 19, 2026

## pCMV CEPIA4mt

RRID:Addgene\_58220

Type: Plasmid

---

### Proper Citation

RRID:Addgene\_58220

---

### 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 [dkNET](#) .

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 Ca<sup>2+</sup> indicator located at the cell cortex and in microridges, detects high Ca<sup>2+</sup> subdomains during Ca<sup>2+</sup> 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.