

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](#) on May 14, 2025

CMV-GEM-GECO1

RRID:Addgene_32442

Type: Plasmid

Proper Citation

RRID:Addgene_32442

Plasmid Information

URL: <http://www.addgene.org/32442>

Proper Citation: RRID:Addgene_32442

Insert Name: GEM-GECO1

Organism: synthetic construct

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:21903779](#)

Vector Backbone Description: Backbone Size:3200; Vector Backbone:Customized Vector; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Note: Could not make stable cell line using this vector. Addgene's sequencing result identified a single nucleotide mismatch at position 1182 when compared to the sequence provided by the depositing scientist and GenBank ID JN258409. According to the depositing scientist, this mismatch does not affect the protein sequence and is not a concern for the function of the plasmid.

Plasmid Name: CMV-GEM-GECO1

Relevant Mutation: GCaMP3

L60P/K69E/N77Y/D86G/N98I/K119I/L173Q/T223S/N302S/R377P/K380Q/S404G/E430V

Record Creation Time: 20220422T222141+0000

Record Last Update: 20220422T223825+0000

Ratings and Alerts

No rating or validation information has been found for CMV-GEM-GECO1.

No alerts have been found for CMV-GEM-GECO1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Hernansanz-Agustín P, et al. (2024) A transmitochondrial sodium gradient controls membrane potential in mammalian mitochondria. Cell.

Kaimachnikov NP, et al. (2021) Modeling of Ca²⁺ transients initiated by GPCR agonists in mesenchymal stromal cells. BBA advances, 1, 100012.