

Resource Summary Report

Generated by [NIF](#) on Aug 30, 2026

MAP2-GCaMP3

RRID:Addgene_43917

Type: Plasmid

Proper Citation

RRID:Addgene_43917

Plasmid Information

URL: <http://www.addgene.org/43917>

Proper Citation: RRID:Addgene_43917

Insert Name: GCaMP3

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:22174877](#)

Vector Backbone Description: Backbone Marker:Addgene plasmid 43915; Backbone Size:9600; Vector Backbone:FU-MAP2-Gateway; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: The MAP2-GFP lentiviral reporter plasmid pGZ-hMAP2 was purchased from System Biosciences (SR10047PA-1). The MAP2 promoter sequence from this plasmid was then cloned along with the Gateway cassette of pEF-DEST51 into the backbone of FUDeltaGW-rtTA (Addgene plasmid 19780) following removal of the ubiquitin promoter-rtTA sequence to produce FU-MAP2-Gateway (Addgene plasmid #43915). This destination vector was subsequently used to generate MAP2-GCaMP3 (GCaMP3 cloned from G-CaMP3, Addgene plasmid 22692). The V5 and His tags present in the vector backbone are not expressed with the GCaMP3 insert.

Plasmid Name: MAP2-GCaMP3

Relevant Mutation: E247V in GCaMP3

Record Creation Time: 20220422T222227+0000

Record Last Update: 20260829T080545+0000

Ratings and Alerts

No rating or validation information has been found for MAP2-GCaMP3.

No alerts have been found for MAP2-GCaMP3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Gobbo F, et al. (2020) Neuronal Activity at Synapse Resolution: Reporters and Effectors for Synaptic Neuroscience. Frontiers in molecular neuroscience, 13, 572312.