

Resource Summary Report

Generated by [dkNET](#) on Sep 2, 2026

AAV-CaMKIIa-GCaMP6s-P2A-nls-dTomato

RRID:Addgene_51086

Type: Plasmid

Proper Citation

RRID:Addgene_51086

Plasmid Information

URL: <http://www.addgene.org/51086>

Proper Citation: RRID:Addgene_51086

Insert Name: GCaMP6s

Organism: Synthetic

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Marker:custom; Backbone Size:5095; Vector Backbone:pAAV-CaMKIIa-WPRE-BGHpA; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: The addition of the P2A-nls-dTomato allows for easy identification of GCaMP6 expressing cells exhibiting nuclear red fluorescence that does not significantly overlap with the cytosolic GCaMP signal. The GCaMP and fluorophore are physically uncoupled. Permissions were obtained from Douglas Kim and the Clontech licensing office for depositing this new plasmid.

Plasmid Name: AAV-CaMKIIa-GCaMP6s-P2A-nls-dTomato

Record Creation Time: 20220422T222301+0000

Record Last Update: 20260902T045627+0000

Ratings and Alerts

No rating or validation information has been found for AAV-CaMKIIa-GCaMP6s-P2A-nls-dTomato.

No alerts have been found for AAV-CaMKIIa-GCaMP6s-P2A-nls-dTomato.

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 [dkNET](#) .

Bustos FJ, et al. (2023) Removal of a partial genomic duplication restores synaptic transmission and behavior in the MyosinVA mutant mouse Flailer. BMC biology, 21(1), 232.

Li B, et al. (2020) Neuronal Inactivity Co-opts LTP Machinery to Drive Potassium Channel Splicing and Homeostatic Spike Widening. Cell, 181(7), 1547.