

Resource Summary Report

Generated by [NIF](#) on Jul 29, 2026

paavCAG-post-mGRASP-2A-dTomato

RRID:Addgene_34912

Type: Plasmid

Proper Citation

RRID:Addgene_34912

Plasmid Information

URL: <http://www.addgene.org/34912>

Proper Citation: RRID:Addgene_34912

Insert Name: postsynaptic mGRASP

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:22138823](#)

Vector Backbone Description: Backbone Size:5000; Vector Backbone:paavCAG; Vector Types:AAV; Bacterial Resistance:Ampicillin

Plasmid Name: paavCAG-post-mGRASP-2A-dTomato

Record Creation Time: 20220422T222148+0000

Record Last Update: 20260725T074604+0000

Ratings and Alerts

No rating or validation information has been found for paavCAG-post-mGRASP-2A-dTomato.

No alerts have been found for paavCAG-post-mGRASP-2A-dTomato.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Cheng G, et al. (2025) The inter-organelle cross-talk finely orchestrated in the amyloidogenic processing of amyloid precursor protein in dendritic arborization neurons of *Drosophila*. *Theranostics*, 15(7), 2951.

Wang YZ, et al. (2024) Neuron type-specific proteomics reveals distinct Shank3 proteoforms in iSPNs and dSPNs lead to striatal synaptopathy in Shank3B^{-/-} mice. *Molecular psychiatry*.

Zhao Y, et al. (2023) Direction Selectivity of TmY Neurites in *Drosophila*. *Neuroscience bulletin*, 39(5), 759.

Jun S, et al. (2023) Organization of Purkinje cell development by neuronal MEGF11 in cerebellar granule cells. *Cell reports*, 42(9), 113137.

Baek SJ, et al. (2022) VTA-projecting cerebellar neurons mediate stress-dependent depression-like behaviors. *eLife*, 11.

Kanadome T, et al. (2022) Development of intensimetric indicators for visualizing N-cadherin interaction across cells. *Communications biology*, 5(1), 1065.

Murthy BKB, et al. (2022) Arc-driven mGRASP highlights CA1 to CA3 synaptic engrams. *Frontiers in behavioral neuroscience*, 16, 1072571.

Kuljis DA, et al. (2019) Fluorescence-Based Quantitative Synapse Analysis for Cell Type-Specific Connectomics. *eNeuro*, 6(5).

Park H, et al. (2017) Optogenetic protein clustering through fluorescent protein tagging and extension of CRY2. *Nature communications*, 8(1), 30.

Li Y, et al. (2016) CRASP: CFP reconstitution across synaptic partners. *Biochemical and biophysical research communications*, 469(3), 352.

Feng L, et al. (2014) Using mammalian GFP reconstitution across synaptic partners (mGRASP) to map synaptic connectivity in the mouse brain. *Nature protocols*, 9(10), 2425.