

Resource Summary Report

Generated by [NIF](#) on Jul 28, 2026

paavCAG-pre-mGRASP-mCerulean

RRID:Addgene_34910

Type: Plasmid

Proper Citation

RRID:Addgene_34910

Plasmid Information

URL: <http://www.addgene.org/34910>

Proper Citation: RRID:Addgene_34910

Insert Name: presynaptic 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-pre-mGRASP-mCerulean

Record Creation Time: 20220422T222148+0000

Record Last Update: 20260725T074604+0000

Ratings and Alerts

No rating or validation information has been found for paavCAG-pre-mGRASP-mCerulean.

No alerts have been found for paavCAG-pre-mGRASP-mCerulean.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 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*.

Kanadome T, et al. (2022) Development of intensiometric 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.

Sakaguchi R, et al. (2018) Bright multicolor labeling of neuronal circuits with fluorescent proteins and chemical tags. *eLife*, 7.

Kwon O, et al. (2018) Schaffer Collateral Inputs to CA1 Excitatory and Inhibitory Neurons Follow Different Connectivity Rules. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 38(22), 5140.

Octeau JC, et al. (2018) An Optical Neuron-Astrocyte Proximity Assay at Synaptic Distance Scales. *Neuron*, 98(1), 49.

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.