Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 12, 2025

pAAV.Syn.GCaMP6s.WPRE.SV40

RRID:Addgene_100843
Type: Plasmid

Proper Citation

RRID:Addgene_100843

Plasmid Information

URL: http://www.addgene.org/100843

Proper Citation: RRID:Addgene_100843

Insert Name: GCaMP6s

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: PMID:23868258

Vector Backbone Description: Vector Backbone:pAAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: This plasmid was previously available as pAAV.Syn.GCaMP6s.WPRE.SV40(p2824) from the Penn Vector Core. This plasmid was created as part of the GENIE project at Janelia Research Campus.

Plasmid Name: pAAV.Syn.GCaMP6s.WPRE.SV40

Relevant Mutation: GCaMP3-K78H T302L R303P D380Y T381R S383T R392G

Record Creation Time: 20220422T221450+0000

Record Last Update: 20220422T221457+0000

Ratings and Alerts

No rating or validation information has been found for pAAV.Syn.GCaMP6s.WPRE.SV40.

No alerts have been found for pAAV.Syn.GCaMP6s.WPRE.SV40.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 56 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Mazo C, et al. (2024) Auditory cortex conveys non-topographic sound localization signals to visual cortex. Nature communications, 15(1), 3116.

Koga K, et al. (2024) Anterior cingulate cross-hemispheric inhibition via the claustrum resolves painful sensory conflict. Communications biology, 7(1), 330.

Gardères PM, et al. (2024) Coexistence of state, choice, and sensory integration coding in barrel cortex LII/III. Nature communications, 15(1), 4782.

Powell NJ, et al. (2024) Common modular architecture across diverse cortical areas in early development. Proceedings of the National Academy of Sciences of the United States of America, 121(11), e2313743121.

Kaur S, et al. (2024) Lateral parabrachial FoxP2 neurons regulate respiratory responses to hypercapnia. Nature communications, 15(1), 4475.

Colom-Cadena M, et al. (2024) Transmembrane protein 97 is a potential synaptic amyloid beta receptor in human Alzheimer's disease. Acta neuropathologica, 147(1), 32.

Shah PT, et al. (2024) Highly local activation of inhibition at the seizure wavefront in vivo. Cell reports, 43(5), 114189.

Park S, et al. (2024) Protocol for recording neural activity evoked by electrical stimulation in mice using two-photon calcium imaging. STAR protocols, 5(2), 103027.

San Martin LS, et al. (2024) Changes in ethanol effects in knock-in mice expressing ethanol insensitive alpha1 and alpha2 glycine receptor subunits. Life sciences, 348, 122673.

Ritger AC, et al. (2024) Prior Negative Experience Biases Activity of Medial Amygdala during Interstrain Social Engagement in Male Rats. eNeuro, 11(9).

Huang Z, et al. (2024) Dynamic responses of striatal cholinergic interneurons control behavioral flexibility. Science advances, 10(51), eadn2446.

Pilotto F, et al. (2024) Generation and enrichment of cerebellar GABAergic interneurons from human induced pluripotent stem cells and intracellular calcium measurements. STAR protocols, 5(2), 102936.

de Brito Van Velze M, et al. (2024) Feedforward and disinhibitory circuits differentially control activity of cortical somatostatin interneurons during behavioral state transitions. Cell reports, 43(5), 114197.

Teng S, et al. (2024) Expression of GCaMP6s in the dentate gyrus induces tonic-clonic seizures. Scientific reports, 14(1), 8104.

Huang S, et al. (2024) Control of polymers' amorphous-crystalline transition enables miniaturization and multifunctional integration for hydrogel bioelectronics. Nature communications, 15(1), 3525.

Mòdol L, et al. (2024) Somatostatin interneurons control the timing of developmental desynchronization in cortical networks. Neuron, 112(12), 2015.

Jager SE, et al. (2024) In vivo calcium imaging shows that satellite glial cells have increased activity in painful states. Brain communications, 6(2), fcae013.

Masala N, et al. (2024) Aberrant hippocampal Ca2+ microwaves following synapsin-dependent adeno-associated viral expression of Ca2+ indicators. eLife, 13.

Niraula S, et al. (2024) Amyloid Pathology Impairs Experience-Dependent Inhibitory Synaptic Plasticity. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(5).

Dadarlat MC, et al. (2024) Activity-dependent recruitment of inhibition and excitation in the awake mammalian cortex during electrical stimulation. Neuron, 112(5), 821.