Resource Summary Report

Generated by NIF on Aug 1, 2026

pGP-AAV-syn-jGCaMP7b-WPRE

RRID:Addgene_104489
Type: Plasmid

Proper Citation

RRID:Addgene_104489

Plasmid Information

URL: http://www.addgene.org/104489

Proper Citation: RRID:Addgene_104489

Insert Name: jGCaMP7b

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: PMID:31209382

Vector Backbone Description: Backbone Size:4579; Vector Backbone:AAV-Syn; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: Please visit https://www.biorxiv.org/content/10.1101/434589v1 for bioRxiv preprint.

Plasmid Name: pGP-AAV-syn-jGCaMP7b-WPRE

Record Creation Time: 20220422T221507+0000

Record Last Update: 20260801T075835+0000

Ratings and Alerts

No rating or validation information has been found for pGP-AAV-syn-jGCaMP7b-WPRE.

No alerts have been found for pGP-AAV-syn-jGCaMP7b-WPRE.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 17 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Hernandez DE, et al. (2025) Fast updating feedback from piriform cortex to the olfactory bulb relays multimodal identity and reward contingency signals during rule-reversal. Nature communications, 16(1), 937.

Ohno S, et al. (2025) The medial prefrontal cortex encodes procedural rules as sequential neuronal activity dynamics. Molecular brain, 18(1), 56.

Turi GF, et al. (2025) Serotonin modulates infraslow oscillation in the dentate gyrus during non-REM sleep. eLife, 13.

Hughes CL, et al. (2025) Spatiotemporal properties of cortical excitatory and inhibitory neuron activation by sustained and bursting electrical microstimulation. iScience, 28(6), 112707.

Fernholz MHP, et al. (2024) DeepD3, an open framework for automated quantification of dendritic spines. PLoS computational biology, 20(2), e1011774.

Vermaercke B, et al. (2024) SYNGAP1 deficiency disrupts synaptic neoteny in xenotransplanted human cortical neurons in vivo. Neuron, 112(18), 3058.

Liiv M, et al. (2024) ER calcium depletion as a key driver for impaired ER-to-mitochondria calcium transfer and mitochondrial dysfunction in Wolfram syndrome. Nature communications, 15(1), 6143.

Abdou K, et al. (2024) Prefrontal coding of learned and inferred knowledge during REM and NREM sleep. Nature communications, 15(1), 4566.

Mackay JP, et al. (2023) Axonal ER Ca2+ Release Selectively Enhances Activity-Independent Glutamate Release in a Huntington Disease Model. The Journal of neuroscience : the official journal of the Society for Neuroscience, 43(20), 3743.

Bender PTR, et al. (2023) Synaptic zinc potentiates AMPA receptor function in mouse auditory cortex. Cell reports, 42(8), 112932.

Voitov I, et al. (2022) Cortical feedback loops bind distributed representations of working memory. Nature, 608(7922), 381.

Fieblinger T, et al. (2022) Presynaptic cGMP sets synaptic strength in the striatum and is important for motor learning. EMBO reports, 23(8), e54361.

Bauer J, et al. (2021) Limited functional convergence of eye-specific inputs in the retinogeniculate pathway of the mouse. Neuron, 109(15), 2457.

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

Pu?cian A, et al. (2020) NMDAR-Dependent Emergence of Behavioral Representation in Primary Visual Cortex. Cell reports, 32(4), 107970.

Jacob T, et al. (2019) A Proposed Mechanism for Spontaneous Transitions between Interictal and Ictal Activity. The Journal of neuroscience : the official journal of the Society for Neuroscience, 39(3), 557.

Safiulina D, et al. (2019) Miro proteins prime mitochondria for Parkin translocation and mitophagy. The EMBO journal, 38(2).