Resource Summary Report

Generated by SPARC SAWG on Sep 19, 2026

pGP-AAV-syn-jGCaMP8f-WPRE

RRID:Addgene_162376
Type: Plasmid

Proper Citation

RRID:Addgene_162376

Plasmid Information

URL: http://www.addgene.org/162376

Proper Citation: RRID:Addgene_162376

Insert Name: jGCaMP8f

Organism: R. norvegicus (rat), G. gallus (chicken); A. victoria (jellyfish)

Bacterial Resistance: Ampicillin

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

Comments: For additional description and application data, see Zhang & Rózsa et al. (2023). Fast and sensitive GCaMP calcium indicators for imaging neural populations. Nature, 615(7954), 884–891. https://doi.org/10.1038/s41586-023-05828-9.

Plasmid Name: pGP-AAV-syn-jGCaMP8f-WPRE

Relevant Mutation: Q315L

Record Creation Time: 20220422T221918+0000

Record Last Update: 20260919T091233+0000

Ratings and Alerts

No rating or validation information has been found for pGP-AAV-syn-jGCaMP8f-WPRE.

No alerts have been found for pGP-AAV-syn-jGCaMP8f-WPRE.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

Gameiro-Ros I, et al. (2026) Uncovering NMDA receptor-mediated high firing activity in excitatory human neurons. iScience, 29(3), 115061.

Ellingford R, et al. (2026) Alzheimer's disease pathology degrades an NMDA receptor-dependent spontaneous activity pattern in cortico-hippocampal circuits. Neuron, 114(13), 2386.

Paton CD, et al. (2026) Kv2-VAP interactions enhance presynaptic ER and mitochondrial calcium influx and the mobilization of vesicles from the reserve pool. bioRxiv : the preprint server for biology.

Inagaki S, et al. (2026) Isotonic and minimally invasive optical clearing media for live cell imaging ex vivo and in vivo. Nature methods, 23(4), 839.

De Faveri F, et al. (2025) In vivo spontaneous Ca2+ activity in the pre-hearing mammalian cochlea. Nature communications, 16(1), 29.

Dorian CC, et al. (2025) Hippocampal sequences represent working memory and implicit timing. Cell reports, 44(10), 116383.

Pouget C, et al. (2025) Deconstruction of a Memory Engram Reveals Distinct Ensembles Recruited at Learning. Research square.

Kim K, et al. (2025) Micro-Coil Neuromodulation at Single-Cell and Circuit Levels for Inhibiting Natural Neuroactivity, Neutralizing Electric Neural Excitation, and Suppressing Seizures. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(22), e2416771.

Wisser S, et al. (2025) Rapid neonatal AAV delivery for adult cortical two-photon imaging of genetically encoded sensors. iScience, 28(11), 113898.

Burdge J, et al. (2025) Remote automated delivery of mechanical stimuli coupled to brain recordings in behaving mice. eLife, 13.

Madruga BA, et al. (2025) Open-source, high performance miniature 2-photon microscopy systems for freely behaving animals. Nature communications, 16(1), 7125.

Sattin A, et al. (2025) Aberration correction in long GRIN lens-based microendoscopes for extended field-of-view two-photon imaging in deep brain regions. eLife, 13.

Lapanja T, et al. (2025) Pupil size modulation drives retinal activity in mice and shapes human perception. Nature communications, 16(1), 7334.

Fulton SL, et al. (2025) Major-depressive-disorder-associated dysregulation of ZBTB7A in orbitofrontal cortex promotes astrocyte-mediated stress susceptibility. Neuron, 113(16), 2656.

Pecirno SA, et al. (2025) Environmental representations in mouse hippocampal CA1 reflect the predictive structure of navigation. Current biology : CB, 35(24), 6100.

Cuhadar U, et al. (2024) Activity-driven synaptic translocation of LGI1 controls excitatory neurotransmission. Cell reports, 43(5), 114186.

Ralowicz AJ, et al. (2024) Frequency of Spontaneous Neurotransmission at Individual Boutons Corresponds to the Size of the Readily Releasable Pool of Vesicles. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(18).

Bayazitov IT, et al. (2024) Sound-evoked adenosine release in cooperation with neuromodulatory circuits permits auditory cortical plasticity and perceptual learning. Cell reports, 43(2), 113758.

Carlton AJ, et al. (2024) BAI1 localizes AMPA receptors at the cochlear afferent post-synaptic density and is essential for hearing. Cell reports, 43(4), 114025.

Randolph LK, et al. (2024) Regulation of synapse density by Pumilio RNA-binding proteins. Cell reports, 43(10), 114747.