

# Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 2, 2026

## pGP-AAV-syn-jGCaMP7s-WPRE

RRID:Addgene\_104487

Type: Plasmid

### Proper Citation

RRID:Addgene\_104487

### Plasmid Information

**URL:** <http://www.addgene.org/104487>

**Proper Citation:** RRID:Addgene\_104487

**Insert Name:** jGCaMP7s

**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-jGCaMP7s-WPRE

**Record Creation Time:** 20220422T221507+0000

**Record Last Update:** 20260902T041022+0000

### Ratings and Alerts

No rating or validation information has been found for pGP-AAV-syn-jGCaMP7s-WPRE.

No alerts have been found for pGP-AAV-syn-jGCaMP7s-WPRE.

### Data and Source Information

**Source:** [Addgene](#)

## Usage and Citation Metrics

We found 41 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [PRECISE-TBI](#) .

Hou S, et al. (2026) Functional bipartition of medial prefrontal cortex into salience detection and movement gain. *bioRxiv : the preprint server for biology*.

Wu S, et al. (2026) Predifferentiation Neurotoxicity of GenX Exposure on hiPSC-Derived Cortical Neurons. *Environmental science & technology*, 60(13), 9857.

Blot FGC, et al. (2026) 2P-FENDO-II: A fiber bundle microscope for all-optical, large field-of-view brain studies in freely moving mice. *Cell reports methods*, 6(2), 101305.

Harding EK, et al. (2025) Locus coeruleus microcircuitry processes periaqueductal gray inputs into distinct outputs for regulation of pain and anxiety. *Cell reports*, 44(12), 116699.

Laing BT, et al. (2025) Repetitive Grooming Behavior Following Aversive Stimulus Coincides with a Decrease in Anterior Hypothalamic Area Activity. *eNeuro*, 12(1).

Li X, et al. (2025) Homeostatic scaling of dynorphin signaling by a non-canonical opioid receptor. *Nature communications*, 16(1), 6786.

Décarie-Spain L, et al. (2025) Ventral hippocampus neurons encode meal-related memory. *Nature communications*, 16(1), 4898.

Lou S, et al. (2025) Targeting microRNA-dependent control of X chromosome inactivation improves the Rett Syndrome phenotype. *Nature communications*, 16(1), 6169.

Tackenberg MC, et al. (2025) Normal circadian period length requires repression of *Npas2* by REV-ERB nuclear receptors. *Cell reports*, 44(10), 116437.

Lo H, et al. (2025) Feeding-induced olfactory cortex suppression reduces satiation. *Neuron*, 113(17), 2856.

Mena W, et al. (2025) Differential Encoding of Odor and Place in the Mouse Piriform and Entorhinal Cortex. *eNeuro*, 12(10).

Das A, et al. (2025) Exposure to COVID-19 virus-like particles modulates firing patterns of cortical neurons in the mouse brain. *Communications biology*, 8(1), 993.

Turner K, et al. (2025) Type-I nNOS neurons orchestrate cortical neural activity and vasomotion. *eLife*, 14.

Sungeelee S, et al. (2025) A genetically defined pontine nucleus essential for ingestion in mice. *Proceedings of the National Academy of Sciences of the United States of America*, 122(29), e2411174122.

Lansbury EL, et al. (2025) Neurons Co-Expressing GLP-1, CCK, and PYY Receptors Particularly in Right Nodose Ganglion and Innervating Entire GI Tract in Mice. *International journal of molecular sciences*, 26(5).

Mena W, et al. (2025) Differential encoding of odor and place in mouse piriform and entorhinal cortex. bioRxiv : the preprint server for biology.

Turner KL, et al. (2025) Type-I nNOS neurons orchestrate cortical neural activity and vasomotion. bioRxiv : the preprint server for biology.

Gribizis A, et al. (2025) Retinal waves reveal axial biases in modular patterns of cortical activity that predict future orientation preferences. bioRxiv : the preprint server for biology.

Wu S, et al. (2024) Developmental neurotoxicity of PFOA exposure on hiPSC-derived cortical neurons. Environment international, 190, 108914.

Douthwaite C, et al. (2024) Probing cerebellar circuit dysfunction in rodent models of spinocerebellar ataxia by means of in vivo two-photon calcium imaging. STAR protocols, 5(1), 102911.