Resource Summary Report

Generated by PRECISE-TBI on Jul 28, 2026

pAAV.Syn.Flex.GCaMP6s.WPRE.SV40

RRID:Addgene_100845
Type: Plasmid

Proper Citation

RRID:Addgene_100845

Plasmid Information

URL: http://www.addgene.org/100845

Proper Citation: RRID:Addgene_100845

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.Flex.GCaMP6s.WPRE.SV40 (p2821) from the Penn Vector Core. This plasmid was created as part of the GENIE project at Janelia Research Campus.

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

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

Record Creation Time: 20220422T221450+0000

Record Last Update: 20260725T073339+0000

Ratings and Alerts

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

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

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 97 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Bussaka K, et al. (2026) Barrington's Nucleus: A Pontine Defecation Brain Area Exhibiting Prompt and Delayed Defecation Responses. Cellular and molecular gastroenterology and hepatology, 20(1), 101635.

de Araujo Salgado I, et al. (2026) High-fat food reinforces risk taking by suppressing defensive neurons. Current biology : CB, 36(1), 49.

Fuhrmann F, et al. (2025) Three-photon in vivo imaging of neurons and glia in the medial prefrontal cortex with sub-cellular resolution. Communications biology, 8(1), 795.

Porniece M, et al. (2025) Obesity dysregulates feeding-evoked response dynamics in hypothalamic satiety neurons. Scientific reports, 15(1), 35837.

Song WS, et al. (2025) GluN2B suppression restores phenylalanine-induced neuroplasticity and cognition impairments in a mouse model of phenylketonuria. The Journal of clinical investigation, 135(13).

K??hn NK, et al. (2025) Dendritic architecture enables de novo computation of salient motion in the superior colliculus. Current biology : CB, 35(16), 3799.

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

Morabito A, et al. (2025) Distinct dendritic integration strategies control dynamics of inhibition in the neocortex. Neuron.

Zhao Y, et al. (2025) Cell type-specific plasticity in synaptic, intrinsic, and sound response properties of deep-layer cortical neurons after noise trauma. Science advances, 11(38), eadx9737.

Relota XJ, et al. (2025) Behavioral Modulation and Molecular Definition of Wide-Field Vertical Cells in the Mouse Superior Colliculus. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(16).

Li T, et al. (2025) A pontine center in descending pain control. Neuron, 113(11), 1789.

Lenkey N, et al. (2025) Brain region-specific gain modulation of place cells by VIP neurons. Nature communications, 16(1), 5863.

Mikati MO, et al. (2025) Highly sensitive in vivo detection of dynamic changes in enkephalins following acute stress in mice. eLife, 12.

Butola T, et al. (2025) Hippocampus shapes entorhinal cortical output through a direct feedback circuit. Nature neuroscience, 28(4), 811.

Liu D, et al. (2025) A hypothalamic circuit underlying the dynamic control of social homeostasis. Nature, 640(8060), 1000.

Walker SJ, et al. (2025) A hypothalamic circuit for anticipating future changes in energy balance. bioRxiv : the preprint server for biology.

Udakis M, et al. (2025) Hippocampal OLM interneurons regulate CA1 place cell plasticity and remapping. Nature communications, 16(1), 9912.

Bulk J, et al. (2025) A food-sensitive olfactory circuit drives anticipatory satiety. Nature metabolism, 7(6), 1246.

Goldstein N, et al. (2025) A parabrachial hub for need-state control of enduring pain. Nature, 647(8090), 689.

Li M, et al. (2024) A mesocortical glutamatergic pathway modulates neuropathic pain independent of dopamine co-release. Nature communications, 15(1), 643.