

Resource Summary Report

Generated by [RRID](#) on Aug 29, 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: 20260829T074958+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 104 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Park G, et al. (2026) A brain stem circuit integrating reflexive and anticipatory salivation. Cell reports, 45(3), 117067.

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.

Gobbo F, et al. (2026) Astrocyte Proximity Protects Synapses From Human Amyloid-Beta Induced Degeneration in a Mouse Ex Vivo Model of Early Alzheimer's Disease. The European journal of neuroscience, 63(7), e70480.

Pattnaik T, et al. (2026) Lactation increases food seeking and palatable feeding through mesolimbic dopamine signaling in mice. Cell reports, 45(8), 117720.

Kindel M, et al. (2026) Exercise-induced activation of ventromedial hypothalamic steroidogenic factor-1 neurons mediates improvements in endurance. Neuron, 114(9), 1564.

Chiu CQ, et al. (2026) SST interneurons facilitate dendritic calcium signaling via tonic activation of γ -GABA receptors. Neuron.

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

Del Río-Martín A, et al. (2026) Mitochondrial fission factor regulates mitochondrial Ca^{2+} homeostasis and neuronal activity in AgRP neurons. Neuron.

Macdonald EE, et al. (2026) A synaptic mechanism for encoding the learned value of action-derived safety. Nature communications, 17(1).

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.

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

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).

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.

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

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

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

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.

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