

Resource Summary Report

Generated by [RRID](#) on Aug 26, 2026

[AAV.CamKII.GCaMP6s.WPRE.SV40](#)

RRID:Addgene_107790

Type: Plasmid

Proper Citation

RRID:Addgene_107790

Plasmid Information

URL: <http://www.addgene.org/107790>

Proper Citation: RRID:Addgene_107790

Insert Name: GCaMP6s

Bacterial Resistance: Ampicillin

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

Comments: This plasmid was previously available as AV-9-PV4365 from the Penn Vector Core. GCaMP6s was created as part of the GENIE project at Janelia Research Campus.

Plasmid Name: AAV.CamKII.GCaMP6s.WPRE.SV40

Record Creation Time: 20220422T221523+0000

Record Last Update: 20260815T080113+0000

Ratings and Alerts

No rating or validation information has been found for AAV.CamKII.GCaMP6s.WPRE.SV40.

No alerts have been found for AAV.CamKII.GCaMP6s.WPRE.SV40.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 34 mentions in open access literature.

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

Cohen-Kashi Malina K, et al. (2026) Behavioural states control binocular vision through input-specific mechanisms. *Nature communications*, 17(1).

Sköld J, et al. (2025) Melanocortin 4 receptor-expressing neurons in the lateral stripe of the striatum regulate affect and motor control. *iScience*, 28(5), 112456.

Zhao S, et al. (2025) Chemogenetic activation of microglial Gi signaling decreases microglial surveillance and impairs neuronal synchronization. *Science advances*, 11(9), eado7829.

Yi MH, et al. (2025) Optogenetic activation of cortical microglia promotes neuronal activity and pain hypersensitivity. *Cell reports*, 44(5), 115717.

Sweeney CG, et al. (2025) Reliable sensory processing of superficial cortical interneurons is modulated by behavioral state. *Cell reports*, 44(5), 115678.

Nabila A, et al. (2025) Adverse gestational environment configures a subpopulation of ventral dentate granule cells for recruitment to drive innate anxiety. *Cell reports*, 44(9), 116219.

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

Xie M, et al. (2025) Rod-shaped microglia interact with neuronal dendrites to attenuate cortical excitability during TDP-43-related neurodegeneration. *Immunity*.

Stowell R, et al. (2025) Dopaminergic signaling regulates microglial surveillance and adolescent plasticity in the mouse frontal cortex. *Nature communications*, 16(1), 7974.

Riggs LM, et al. (2025) Bioactive ketamine metabolite exerts in vivo neuroplastic effects to improve hippocampal function in a treatment-resistant depression model. *Cell reports*, 44(6), 115743.

Xin Q, et al. (2025) Neuron-astrocyte coupling in lateral habenula mediates depressive-like behaviors. *Cell*, 188(12), 3291.

Teng S, et al. (2024) Expression of GCaMP6s in the dentate gyrus induces tonic-clonic seizures. *Scientific reports*, 14(1), 8104.

Hu Z, et al. (2024) Airy-beam holographic sonogenetics for advancing neuromodulation precision and flexibility. *Proceedings of the National Academy of Sciences of the United States of America*, 121(26), e2402200121.

Li H, et al. (2024) Cholecystokinin facilitates motor skill learning by modulating neuroplasticity in the motor cortex. *eLife*, 13.

Junkins MS, et al. (2024) Neural control of fluid homeostasis is engaged below 10°C in hibernation. *Current biology : CB*, 34(4), 923.

Barykina NV, et al. (2024) Destabilized near-infrared fluorescent nanobodies enable background-free targeting of GFP-based biosensors for imaging and manipulation. *Nature communications*, 15(1), 7788.

Turi GF, et al. (2024) Serotonin modulates infraslow oscillation in the dentate gyrus during Non-REM sleep. *bioRxiv : the preprint server for biology*.

Mittelstadt JK, et al. (2024) Long-term training alters response dynamics in the aging auditory cortex. *Hearing research*, 444, 108965.

Fogaça MV, et al. (2024) Effects of ketamine on GABAergic and glutamatergic activity in the mPFC: biphasic recruitment of GABA function in antidepressant-like responses. *bioRxiv : the preprint server for biology*.

Park K, et al. (2024) Egocentric neural representation of geometric vertex in the retrosplenial cortex. *Nature communications*, 15(1), 7156.