Resource Summary Report

Generated by dkNET on Jul 29, 2026

pENN.AAV.CamKII.GCaMP6f.WPRE.SV40

RRID:Addgene_100834
Type: Plasmid

Proper Citation

RRID:Addgene_100834

Plasmid Information

URL: http://www.addgene.org/100834

Proper Citation: RRID:Addgene_100834

Insert Name: GCaMP6f

Organism: Synthetic

Bacterial Resistance: Ampicillin

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

Comments: This plasmid was previously available as pENN.AAV.CamKII.GCaMP6f.WPRE.SV40 (P3435) from the Penn Vector Core. GCaMP6f was created as part of the GENIE project at Janelia Research Campus.

Plasmid Name: pENN.AAV.CamKII.GCaMP6f.WPRE.SV40

Relevant Mutation: GCaMP3-T302L R303P A317E 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 pENN.AAV.CamKII.GCaMP6f.WPRE.SV40.

No alerts have been found for pENN.AAV.CamKII.GCaMP6f.WPRE.SV40.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 70 mentions in open access literature.

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

Vargish GA, et al. (2025) A novel, evolutionarily conserved inhibitory circuit selectively regulates dentate gyrus mossy cell function. bioRxiv : the preprint server for biology.

Yi JH, et al. (2025) Selective engagement of prefrontal VIP neurons in reversal learning. Science advances, 11(30), eadt4945.

Vittani M, et al. (2025) Functional and structural profiling of circulation via genetically encoded modular fluorescent probes. bioRxiv : the preprint server for biology.

Cao T, et al. (2025) Broad brain biodistribution conferred by an AAV to restore TDP-43 function mitigates Frontotemporal Demenia-like deficits. 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.

Fujima S, et al. (2025) Parvalbumin interneurons in the insular cortex control social familiarity and emotion recognition. Cell reports, 116085.

Krishnan S, et al. (2025) A contextual fear conditioning paradigm in head-fixed mice exploring virtual reality. eLife, 14.

Hong CY, et al. (2025) Anterior hypothalamic nucleus drives distinct defensive responses through cell-type-specific activity. iScience, 28(4), 112097.

Zafiri D, et al. (2025) Dopamine prediction error signaling in a unique nigrostriatal circuit is critical for associative fear learning. Nature communications, 16(1), 3066.

Romero-Sosa JL, et al. (2025) Neural coding of choice and outcome are modulated by uncertainty in orbitofrontal but not secondary motor cortex. Nature communications, 16(1), 8931.

Bae JW, et al. (2025) Cortical VIP neurons as a critical node for dopamine actions. Science advances, 11(1), eadn3221.

Min H, et al. (2025) Cold induces brain region-selective cell activity-dependent lipid metabolism. eLife, 13.

Sibener LJ, et al. (2025) Dissociable roles of distinct thalamic circuits in learning reaches to spatial targets. Nature communications, 16(1), 2962.

Zhang X, et al. (2025) Inter-brain neural dynamics in biological and artificial intelligence systems. Nature.

Hao MHZ, et al. (2025) Dissociable cortical contributions to impulse control during waiting. Science advances, 11(42), eadx4732.

Vargish GA, et al. (2025) A novel and evolutionarily conserved inhibitory circuit selectively regulates dentate gyrus mossy cell function. Research square.

Tuna T, et al. (2025) Associative coding of conditioned fear in the thalamic nucleus reuniens in rodents and humans. Communications biology, 8(1), 1142.

Adjei MP, et al. (2025) Familiarity Gates Socially Transmitted Aggression via the Medial Amygdala. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(39).

Landry T, et al. (2025) Targeting glucose-inhibited hippocampal CCK interneurons prevents cognitive impairment in diet-induced obesity. Neuron.

Boschen SL, et al. (2025) Dopaminergic Degeneration Differentially Modulates Primary Motor Cortex Activity and Motor Behavior in Hemiparkinsonian Rats. Brain sciences, 15(10).