Resource Summary Report

Generated by PRECISE-TBI on Sep 2, 2026

paavCAG-iCre

RRID:Addgene_51904
Type: Plasmid

Proper Citation

RRID:Addgene_51904

Plasmid Information

URL: http://www.addgene.org/51904

Proper Citation: RRID:Addgene_51904

Insert Name: improved Cre recombinase

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: PMID:24412418

Vector Backbone Description: Backbone Size:5000; Vector Backbone:paavCAG; Vector Types:AAV, Cre/Lox; Bacterial Resistance:Ampicillin

Plasmid Name: paavCAG-iCre

Record Creation Time: 20220422T222305+0000

Record Last Update: 20260902T045637+0000

Ratings and Alerts

No rating or validation information has been found for paavCAG-iCre.

No alerts have been found for paavCAG-iCre.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 19 mentions in open access literature.

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

Gimenez GA, et al. (2025) A Study on Potential Sources of Perineuronal Net-Associated Sema3A in Cerebellar Nuclei Reveals Toxicity of Non-Invasive AAV-Mediated Cre Expression in the Central Nervous System. International journal of molecular sciences, 26(2).

Wang Y, et al. (2025) A key role of PIEZO2 mechanosensitive ion channel in adipose sensory innervation. Cell metabolism, 37(4), 1001.

Lesuis SL, et al. (2024) Stress disrupts engram ensembles in lateral amygdala to generalize threat memory in mice. Cell.

Buchan MJ, et al. (2024) Higher-order thalamocortical circuits are specified by embryonic cortical progenitor types in the mouse brain. Cell reports, 43(5), 114157.

Verstraelen P, et al. (2024) Serum Amyloid A3 Fuels a Feed-Forward Inflammatory Response to the Bacterial Amyloid Curli in the Enteric Nervous System. Cellular and molecular gastroenterology and hepatology, 18(1), 89.

Yokoyama T, et al. (2024) A multicolor suite for deciphering population coding of calcium and cAMP in vivo. Nature methods, 21(5), 897.

Jost P, et al. (2023) Acute Downregulation but Not Genetic Ablation of Murine MCU Impairs Suppressive Capacity of Regulatory CD4 T Cells. International journal of molecular sciences, 24(9).

Jun S, et al. (2023) Organization of Purkinje cell development by neuronal MEGF11 in cerebellar granule cells. Cell reports, 42(9), 113137.

Baek SJ, et al. (2022) VTA-projecting cerebellar neurons mediate stress-dependent depression-like behaviors. eLife, 11.

Kim JH, et al. (2022) Real-time tracking of bioluminescent influenza A virus infection in mice. Scientific reports, 12(1), 3152.

Wang Y, et al. (2022) The role of somatosensory innervation of adipose tissues. Nature, 609(7927), 569.

Jeon H, et al. (2022) Topographic connectivity and cellular profiling reveal detailed input pathways and functionally distinct cell types in the subthalamic nucleus. Cell reports, 38(9), 110439.

Oka Y, et al. (2021) Interstitial Axon Collaterals of Callosal Neurons Form Association Projections from the Primary Somatosensory to Motor Cortex in Mice. Cerebral cortex (New York, N.Y. : 1991), 31(11), 5225.

Togashi K, et al. (2020) Adeno-Associated Virus-Mediated Single-Cell Labeling of Mitral Cells in the Mouse Olfactory Bulb: Insights into the Developmental Dynamics of Dendrite Remodeling. Frontiers in cellular neuroscience, 14, 572256.

Kol A, et al. (2020) Astrocytes contribute to remote memory formation by modulating hippocampal-cortical communication during learning. Nature neuroscience, 23(10), 1229.

Tomorsky J, et al. (2020) Precise levels of nectin-3 are required for proper synapse formation in postnatal visual cortex. Neural development, 15(1), 13.

Wang X, et al. (2019) Tau interactome analyses in CRISPR-Cas9 engineered neuronal cells reveal ATPase-dependent binding of wild-type but not P301L Tau to non-muscle myosins. Scientific reports, 9(1), 16238.

Couasnay G, et al. (2019) Promoter Cre-Specific Genotyping Assays for Authentication of Cre-Driver Mouse Lines. JBMR plus, 3(4), e10128.

Feng L, et al. (2014) Using mammalian GFP reconstitution across synaptic partners (mGRASP) to map synaptic connectivity in the mouse brain. Nature protocols, 9(10), 2425.