

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 10, 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: 20260808T081808+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.

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

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.

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.

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

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

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.