

Resource Summary Report

Generated by [RRID](#) on Aug 25, 2026

pAAV-hSyn-Cre-P2A-dTomato

RRID:Addgene_107738

Type: Plasmid

Proper Citation

RRID:Addgene_107738

Plasmid Information

URL: <http://www.addgene.org/107738>

Proper Citation: RRID:Addgene_107738

Insert Name: Cre, dTomato

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Marker:Jonathan Ting; Backbone Size:7022; Vector Backbone:pAAV-hSyn1-DIO-SSFO-EYFP-P2A-nlsdTomato-WPRE-BGHpA; Vector Types:Mammalian Expression, AAV, Cre/Lox; Bacterial Resistance:Ampicillin

Comments: This plasmid can be used to express codon-optimized Cre and, separately, the red fluorescent dTomato. It is useful for studies aiming to fluorescently label cells that have undergone Cre-recombination of a Lox-containing DNA sequence.

Plasmid Name: pAAV-hSyn-Cre-P2A-dTomato

Record Creation Time: 20220422T221522+0000

Record Last Update: 20260815T080113+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-hSyn-Cre-P2A-dTomato.

No alerts have been found for pAAV-hSyn-Cre-P2A-dTomato.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 44 mentions in open access literature.

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

Tavares MR, et al. (2026) Loss of Striatal Bradykinin B2 Receptor Alters Anxiety and Motivational Behaviors in Male Mice. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 40(10), e71950.

Livrizzi G, et al. (2026) Top-down control of the descending pain modulatory system drives multimodal placebo analgesia. *Neuron*.

Bridges SP, et al. (2026) A role for nucleolin in functional improvement in stroke. *iScience*, 29(6), 116134.

Bouchet CA, et al. (2026) Sex-specific organization and synaptic signaling in prefrontal-hypothalamic circuitry. *bioRxiv : the preprint server for biology*.

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.

Dearing C, et al. (2026) Prefrontal-medullary circuitry is necessary for sex-specific responses to metabolic stress in rats. *bioRxiv : the preprint server for biology*.

Kong D, et al. (2026) Acsl4-mediated Lipid Homeostasis Orchestrates Synaptic and Cognitive Plasticity. *Research square*.

Alsalman M, et al. (2026) Hippocampal CA1 and CA2 dendritic compartment-specific differences in mitochondrial form and function. *Progress in neurobiology*, 262, 102931.

Patel SP, et al. (2026) Proteomics reveal PTEN as a critical mediator of sustained mitochondrial dysfunction during chronic spinal cord injury. *Experimental neurology*, 404, 115880.

Alsalman M, et al. (2025) Hippocampal cell- and circuit-specific differences in mitochondrial form and function. *bioRxiv : the preprint server for biology*.

Jaschke NP, et al. (2025) Gut-to-brain signaling restricts dietary protein intake during recovery from catabolic states. *Cell*, 188(26), 7481.

Cryan CE, et al. (2025) Bmal1 Modulates Striatal cAMP Signaling and Motor Learning. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(28).

Karolczak EO, et al. (2025) Uncovering the role of Gpr45 in obesity regulation. *Molecular metabolism*, 98, 102174.

Xie W, et al. (2025) Vascular motion in the dorsal root ganglion sensed by Piezo2 in sensory neurons triggers episodic pain. *Neuron*, 113(11), 1774.

Xu J, et al. (2025) Gustatory-neuron-supplied R-spondin-2 is required for taste bud replenishment. *Stem cell reports*, 20(7), 102542.

van Bruggen R, et al. (2025) Capicua Refines Mossy Fiber-CA3 Axon Targeting in the Late Postnatal Hippocampus. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 39(18), e71067.

Báldi R, et al. (2025) Synaptic organization and associative learning-related activity of basolateral amygdala interneurons. *Cell reports*, 44(10), 116295.

Moses JT, et al. (2025) Neuro293: A REST-knockout HEK-293 cell line enables the expression of neuron-restricted genes for the high-throughput testing of human neurobiology and the biochemistry of neuronal proteins. *Biology methods & protocols*, 10(1), bpaf036.

Radulovic J, et al. (2025) Retrosplenial Cortical Reorganization During Late Adolescence Introduces Instability of Episodic Memory Circuits. *Research square*.

Sloan DC, et al. (2025) The G protein modifier KCTD5 tunes the decoding of neuromodulatory signals necessary for motor function in striatal neurons. *PLoS biology*, 23(4), e3003117.