

Resource Summary Report

Generated by [nidm-terms](#) on Aug 14, 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: 20260808T080401+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 [nidm-terms](#) .

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.

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

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.

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.

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.

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

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.

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

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.

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.