

Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Mar 31, 2025

pAAV-CAG-tdTomato (codon diversified)

RRID:Addgene_59462

Type: Plasmid

Proper Citation

RRID:Addgene_59462

Plasmid Information

URL: <http://www.addgene.org/59462>

Proper Citation: RRID:Addgene_59462

Insert Name: tdTomato

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:](#)

Vector Backbone Description: Backbone Marker:Scott Sternson; Backbone Size:4719; Vector Backbone:AAV with CAG promoter; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: Plasmid is completely sequenced by depositing lab except for parts of both ITRs and a part of the CAG promoter. Multiple digestions were done to verify the vector structure. The construct and the virus were both tested in vitro.

Plasmid Name: pAAV-CAG-tdTomato (codon diversified)

Relevant Mutation: codon diversified

Record Creation Time: 20220422T222342+0000

Record Last Update: 20220422T224459+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-CAG-tdTomato (codon diversified).

No alerts have been found for pAAV-CAG-tdTomato (codon diversified).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 53 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Wang Z, et al. (2025) Single-Nuclei Sequencing Reveals a Robust Corticospinal Response to Nearby Axotomy But Overall Insensitivity to Spinal Injury. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(8).

Hoffmann MD, et al. (2024) Protein Carrier AAV. *bioRxiv : the preprint server for biology*.

Vu MT, et al. (2024) Targeted micro-fiber arrays for measuring and manipulating localized multi-scale neural dynamics over large, deep brain volumes during behavior. *Neuron*, 112(6), 909.

Taylor A, et al. (2024) Forced Abstinence from Volitional Ethanol Intake Drives a Vulnerable Period of Hyperexcitability in BNST-Projecting Insular Cortex Neurons. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(4).

Anjum R, et al. (2024) Rem2 interacts with CaMKII at synapses and restricts long-term potentiation in hippocampus. *bioRxiv : the preprint server for biology*.

Sarmah D, et al. (2024) A Novel Method for Separating Full and Empty Adeno-Associated Viral Capsids Using Ultrafiltration. *Membranes*, 14(9).

Xu P, et al. (2024) High-throughput mapping of single-neuron projection and molecular features by retrograde barcoded labeling. *eLife*, 13.

Verzele NAJ, et al. (2024) Evidence for vagal sensory neural involvement in influenza pathogenesis and disease. *PLoS pathogens*, 20(4), e1011635.

Munguba H, et al. (2024) Projection-Targeted Photopharmacology Reveals Distinct Anxiolytic Roles for Presynaptic mGluR2 in Prefrontal- and Insula-Amygdala Synapses. *bioRxiv : the preprint server for biology*.

Wang Z, et al. (2024) Injury distance limits the transcriptional response to spinal injury. bioRxiv : the preprint server for biology.

Ährlund-Richter S, et al. (2024) Prefrontal Cortex subregions provide distinct visual and behavioral feedback modulation to the Primary Visual Cortex. bioRxiv : the preprint server for biology.

Niebergall EB, et al. (2024) Abnormal Morphology and Synptogenic Signaling in Astrocytes Following Prenatal Opioid Exposure. *Cells*, 13(10).

Shaker T, et al. (2024) A simple and reliable method for claustrum localization across age in mice. *Molecular brain*, 17(1), 10.

Zak JD, et al. (2024) Distinct information conveyed to the olfactory bulb by feedforward input from the nose and feedback from the cortex. *Nature communications*, 15(1), 3268.

Sriram K, et al. (2024) Regulation of nuclear transcription by mitochondrial RNA in endothelial cells. *eLife*, 13.

Jaeger ECB, et al. (2024) Adeno-associated viral tools to trace neural development and connectivity across amphibians. *Developmental cell*.

Lustig J, et al. (2024) Selective Targeting of a Defined Subpopulation of Corticospinal Neurons using a Novel Kihl14-Cre Mouse Line Enables Molecular and Anatomical Investigations through Development into Maturity. bioRxiv : the preprint server for biology.

Chen H, et al. (2024) The functional and anatomical characterization of three spinal output pathways of the anterolateral tract. *Cell reports*, 43(3), 113829.

Santoscoy MC, et al. (2023) An AAV capsid increases transduction of striatum and a ChAT promoter allows selective cholinergic neuron transduction. *Molecular therapy. Methods & clinical development*, 29, 532.

Tang Y, et al. (2023) Visual experience induces 4-8 Hz synchrony between V1 and higher-order visual areas. *Cell reports*, 42(12), 113482.