

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

AAV phSyn1(S)-FLEX-tdTomato-T2A-SypEGFP-WPRE

RRID:Addgene_51509

Type: Plasmid

Proper Citation

RRID:Addgene_51509

Plasmid Information

URL: <http://www.addgene.org/51509>

Proper Citation: RRID:Addgene_51509

Insert Name: tdTomato-T2A-SypEGFP

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24695228](#)

Vector Backbone Description: Backbone Marker:Stratagene; Vector Backbone:pAAV-MCS; Vector Types:AAV; Bacterial Resistance:Ampicillin

Plasmid Name: AAV phSyn1(S)-FLEX-tdTomato-T2A-SypEGFP-WPRE

Record Creation Time: 20220422T222303+0000

Record Last Update: 20260815T081614+0000

Ratings and Alerts

No rating or validation information has been found for AAV phSyn1(S)-FLEX-tdTomato-T2A-SypEGFP-WPRE.

No alerts have been found for AAV phSyn1(S)-FLEX-tdTomato-T2A-SypEGFP-WPRE.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 42 mentions in open access literature.

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

Tomioka R, et al. (2026) Anatomical and neurochemical profiles of somatostatin-positive neurons in the mouse inferior colliculus. *Neuroscience*, 601, 179.

Dunning JL, et al. (2026) Functional remodeling of the parabrachial nucleus drives alcohol drinking escalation in dependence. *bioRxiv : the preprint server for biology*.

Calzoni A, et al. (2026) Visual field position shapes input sampling and output routing in the superior colliculus. *bioRxiv : the preprint server for biology*.

Park E, et al. (2025) Somatostatin neurons detect stimulus-reward contingencies to reduce neocortical inhibition during learning. *Cell reports*, 44(5), 115606.

Vounatsos MV, et al. (2025) GPe Projections to the Rostrolateral Nucleus Give Rise to Diverging GABAergic and DAergic Circuits. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(2).

Thanawalla AR, et al. (2025) Cerebellar outputs for rapid directional refinement of forelimb movement. *bioRxiv : the preprint server for biology*.

Jézéquel J, et al. (2025) Cadherins orchestrate specific patterns of perisomatic inhibition onto distinct pyramidal cell populations. *Nature communications*, 16(1), 4481.

Alexandris AS, et al. (2025) Recovery of retinal terminal fields after traumatic brain injury: evidence of collateral sprouting and sexual dimorphism. *bioRxiv : the preprint server for biology*.

Rannap M, et al. (2025) Functional and structural organization of medial entorhinal cortex layer VI. *iScience*, 28(4), 112207.

Contesse T, et al. (2025) A striosomal accumbens pathway drives stereotyped behavior through an aversive *Esr1*+ hypothalamic-habenula circuit. *Science advances*, 11(47), ead9450.

Xiong J, et al. (2025) mWAKE in the Central Amygdala Regulates Fear Learning and Memory. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(40).

Buron J, et al. (2025) Oxytocin modulates respiratory heart rate variability through a hypothalamus-brainstem-heart neuronal pathway. *Nature neuroscience*, 28(11), 2247.

Upadhyay A, et al. (2025) The dorsal column nuclei scale mechanical sensitivity in naive and neuropathic pain states. *Cell reports*, 44(4), 115556.

Li M, et al. (2024) A mesocortical glutamatergic pathway modulates neuropathic pain independent of dopamine co-release. *Nature communications*, 15(1), 643.

Upadhyay A, et al. (2024) The Dorsal Column Nuclei Scale Mechanical Sensitivity in Naive and Neuropathic Pain States. *bioRxiv : the preprint server for biology*.

Mora S, et al. (2024) Stabilization of V1 interneuron-motor neuron connectivity ameliorates motor phenotype in a mouse model of ALS. *Nature communications*, 15(1), 4867.

Saxon D, et al. (2024) Neuronal Subtypes and Connectivity of the Adult Mouse Paralamina Amygdala. *eNeuro*, 11(6).

Glangetas C, et al. (2024) A population of Insula neurons encodes for social preference only after acute social isolation in mice. *Nature communications*, 15(1), 7142.

D'Souza SP, et al. (2024) Developmental control of rod number via a light-dependent retrograde pathway from intrinsically photosensitive retinal ganglion cells. *Developmental cell*, 59(21), 2897.

Li C, et al. (2023) Pathway-specific inputs to the superior colliculus support flexible responses to visual threat. *Science advances*, 9(35), eade3874.