Resource Summary Report

Generated by RRID on Sep 1, 2026

AAV-FLEX-Arch-GFP

RRID:Addgene_22222
Type: Plasmid

Proper Citation

RRID:Addgene_22222

Plasmid Information

URL: http://www.addgene.org/22222

Proper Citation: RRID:Addgene_22222

Insert Name: Arch

Organism: H. sodomense

Bacterial Resistance: Ampicillin

Defining Citation: PMID:20054397

Vector Backbone Description: Backbone Marker:Scott Sternson; Backbone Size:5000; Vector Backbone:AAV-FLEX; Vector Types:Mammalian Expression, AAV, Cre/Lox, adeno-associated virus; Bacterial Resistance:Ampicillin

Comments: PLEASE CONTACT ED BOYDEN (esb@media.mit.edu) FOR DETAILS ON THIS REAGENT AND FURTHER REAGENTS IN THIS LINE. In the map below, the Selected Features list should be labeled as follows (instead of the 3 loxP sites listed from 3629-3692 and 5299-5403): lox2272: 3629-3596 , loxp: 3725-3692 lox2272: 5266-5399 , loxp: 5370-5403

Plasmid Name: AAV-FLEX-Arch-GFP

Relevant Mutation: no

Record Creation Time: 20220422T222058+0000

Record Last Update: 20260902T044215+0000

Ratings and Alerts

No rating or validation information has been found for AAV-FLEX-Arch-GFP.

No alerts have been found for AAV-FLEX-Arch-GFP.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 35 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Ansorge J, et al. (2026) Somatosensory control of thalamic relay neurons is regulated by two distinct layer 6 feedback systems. iScience, 29(1), 114427.

Bulk J, et al. (2025) A food-sensitive olfactory circuit drives anticipatory satiety. Nature metabolism, 7(6), 1246.

Clayton KK, et al. (2025) Cortical PV interneurons regulate loudness perception and sustainably reverse loudness hypersensitivity. Neuron.

Barbier M, et al. (2025) Altered Neural Activity in the Mesoaccumbens Pathway Underlies Impaired Social Reward Processing in Shank3-Deficient Rats. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(17), e2414813.

Liu Y, et al. (2025) Prolonged exposure to food odors suppresses feeding via an olfactory bulb-to-hypothalamus circuit. Nature communications, 16(1), 7892.

Jiang Z, et al. (2024) Dopaminergic Neurons in Zona Incerta Drives Appetitive Self-Grooming. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(36), e2308974.

Campos-Cardoso R, et al. (2024) The mouse dorsal peduncular cortex encodes fear memory. Cell reports, 43(4), 114097.

Kintscher M, et al. (2023) A striatal circuit balances learned fear in the presence and absence of sensory cues. eLife, 12.

Leroy F, et al. (2022) Enkephalin release from VIP interneurons in the hippocampal CA2/3a region mediates heterosynaptic plasticity and social memory. Molecular psychiatry, 27(6), 2879.

La-Vu MQ, et al. (2022) Sparse genetically defined neurons refine the canonical role of periaqueductal gray columnar organization. eLife, 11.

Asgarihafshejani A, et al. (2022) Long-term potentiation at pyramidal cell to somatostatin interneuron synapses controls hippocampal network plasticity and memory. iScience, 25(5), 104259.

Cummings KA, et al. (2022) Control of fear by discrete prefrontal GABAergic populations encoding valence-specific information. Neuron, 110(18), 3036.

Callahan JW, et al. (2022) Dysregulation of the Basal Ganglia Indirect Pathway in Early Symptomatic Q175 Huntington's Disease Mice. The Journal of neuroscience : the official journal of the Society for Neuroscience, 42(10), 2080.

Wang Y, et al. (2021) A long-range, recurrent neuronal network linking the emotion regions with the somatic motor cortex. Cell reports, 36(12), 109733.

Liu F, et al. (2021) Neurog2 directly converts astrocytes into functional neurons in midbrain and spinal cord. Cell death & disease, 12(3), 225.

Wang W, et al. (2021) Coordination of escape and spatial navigation circuits orchestrates versatile flight from threats. Neuron, 109(11), 1848.

Spool JA, et al. (2021) Genetically identified neurons in avian auditory pallium mirror core principles of their mammalian counterparts. Current biology : CB, 31(13), 2831.

Ito W, et al. (2020) Disinhibition-assisted long-term potentiation in the prefrontal-amygdala pathway via suppression of somatostatin-expressing interneurons. Neurophotonics, 7(1), 015007.

Kovaleski RF, et al. (2020) Dysregulation of external globus pallidus-subthalamic nucleus network dynamics in parkinsonian mice during cortical slow-wave activity and activation. The Journal of physiology, 598(10), 1897.

Tang W, et al. (2020) A VTA to Basal Amygdala Dopamine Projection Contributes to Signal Salient Somatosensory Events during Fear Learning. The Journal of neuroscience : the official journal of the Society for Neuroscience, 40(20), 3969.