

Resource Summary Report

Generated by [dkNET](#) on Aug 16, 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: 20260815T081209+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 [dkNET](#).

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.

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.

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

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.

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.

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

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.