

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 16, 2026

pAAV.Syn.Flex.NES-jRGECO1a.WPRE.SV40

RRID:Addgene_100853

Type: Plasmid

Proper Citation

RRID:Addgene_100853

Plasmid Information

URL: <http://www.addgene.org/100853>

Proper Citation: RRID:Addgene_100853

Insert Name: jRGECO1a

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:27011354](#)

Vector Backbone Description: Vector Backbone:pAAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: This plasmid was previously available as pAAV.Syn.Flex.NES-jRGECO1a.WPRE.SV40(p3848) from the Penn Vector Core. This plasmid was created as part of the GENIE project at Janelia Research Campus.

Plasmid Name: pAAV.Syn.Flex.NES-jRGECO1a.WPRE.SV40

Record Creation Time: 20220422T221450+0000

Record Last Update: 20260815T080015+0000

Ratings and Alerts

No rating or validation information has been found for pAAV.Syn.Flex.NES-jRGECO1a.WPRE.SV40.

No alerts have been found for pAAV.Syn.Flex.NES-jRGECO1a.WPRE.SV40.

Data and Source Information

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Gorkowska-Nosal M, et al. (2026) The role of dopamine-sensitive motor cortical circuits in the development and execution of skilled forelimb movements. *iScience*, 29(3), 114983.

Gable J, et al. (2026) Tuft dendrite spikes are accompanied by selective input from distinct functional networks. *bioRxiv : the preprint server for biology*.

Fei Y, et al. (2025) Coordination of distinct sources of excitatory inputs enhances motion selectivity in the mouse visual thalamus. *Neuron*.

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.

Farrell JS, et al. (2024) Neural and behavioural state switching during hippocampal dentate spikes. *Nature*.

Medeiros D, et al. (2024) Altered activity of mPFC pyramidal neurons and parvalbumin-expressing interneurons during social interactions in a Mecp2 mouse model for Rett syndrome. *bioRxiv : the preprint server for biology*.

Fišek M, et al. (2023) Cortico-cortical feedback engages active dendrites in visual cortex. *Nature*, 617(7962), 769.

Yao P, et al. (2023) Construction and use of an adaptive optics two-photon microscope with direct wavefront sensing. *Nature protocols*, 18(12), 3732.

Szabo GG, et al. (2022) Ripple-selective GABAergic projection cells in the hippocampus. *Neuron*, 110(12), 1959.

Forli A, et al. (2021) Optogenetic strategies for high-efficiency all-optical interrogation using blue-light-sensitive opsins. *eLife*, 10.

Hamid AA, et al. (2021) Wave-like dopamine dynamics as a mechanism for spatiotemporal credit assignment. *Cell*, 184(10), 2733.

Kim D, et al. (2020) Kisspeptin Neuron-Specific and Self-Sustained Calcium Oscillation in the Hypothalamic Arcuate Nucleus of Neonatal Mice: Regulatory Factors of its Synchronization. *Neuroendocrinology*, 110(11-12), 1010.

Gobbo F, et al. (2020) Neuronal Activity at Synapse Resolution: Reporters and Effectors for Synaptic Neuroscience. *Frontiers in molecular neuroscience*, 13, 572312.

Ali F, et al. (2019) Parvalbumin-Positive Neuron Loss and Amyloid- β Deposits in the Frontal Cortex of Alzheimer's Disease-Related Mice. *Journal of Alzheimer's disease : JAD*,

72(4), 1323.