

Resource Summary Report

Generated by [RRID](#) on Aug 28, 2026

[pAAV.Syn.NES.jRCaMP1a.WPRE.SV40](#)

RRID:Addgene_100848

Type: Plasmid

Proper Citation

RRID:Addgene_100848

Plasmid Information

URL: <http://www.addgene.org/100848>

Proper Citation: RRID:Addgene_100848

Insert Name: jRCaMP1a

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.NES.jRCaMP1a.WPRE.SV40(p3855) from the Penn Vector Core. This plasmid was created as part of the GENIE project at Janelia Research Campus.

Plasmid Name: pAAV.Syn.NES.jRCaMP1a.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.NES.jRCaMP1a.WPRE.SV40.

No alerts have been found for pAAV.Syn.NES.jRCaMP1a.WPRE.SV40.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Ferrari M, et al. (2026) A High-Throughput Live Imaging Platform to Investigate Circuit-Dependent Regulation of Circadian Rhythms in Brain Tissue. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(40), e75427.

Patton AP, et al. (2025) Multi-Omic Analysis Reveals Astrocytic Annexin-A2 as Critical for Network-Level Circadian Timekeeping in the Suprachiasmatic Nucleus. *Glia*, 73(7), 1483.

Rakymzhan A, et al. (2025) Parvalbumin interneurons drive depth-dependent vascular responses. *iScience*, 28(12), 113965.

Lesuis SL, et al. (2024) Stress disrupts engram ensembles in lateral amygdala to generalize threat memory in mice. *Cell*.

Hoekstra MMB, et al. (2024) Bmal1 integrates circadian function and temperature sensing in the suprachiasmatic nucleus. *Proceedings of the National Academy of Sciences of the United States of America*, 121(17), e2316646121.

Vermaercke B, et al. (2024) SYNGAP1 deficiency disrupts synaptic neoteny in xenotransplanted human cortical neurons in vivo. *Neuron*, 112(18), 3058.

Pan YK, et al. (2024) Developing zebrafish utilize taste-signaling pathways for oxygen chemoreception. *Current biology : CB*, 34(18), 4272.

Sokolov R, et al. (2024) Hyaluronidase-induced matrix remodeling contributes to long-term synaptic changes. *Frontiers in neural circuits*, 18, 1441280.

Zhang SX, et al. (2023) Competition between stochastic neuropeptide signals calibrates the rate of satiation. *bioRxiv : the preprint server for biology*.

Kubitschke M, et al. (2022) Next generation genetically encoded fluorescent sensors for serotonin. *Nature communications*, 13(1), 7525.

Morris EL, et al. (2021) Single-cell transcriptomics of suprachiasmatic nuclei reveal a Prokineticin-driven circadian network. *The EMBO journal*, 40(20), e108614.

Kweon H, et al. (2021) Excitatory neuronal CHD8 in the regulation of neocortical development and sensory-motor behaviors. *Cell reports*, 34(8), 108780.