

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

pAAV-hSyn-EGFP

RRID:Addgene_50465

Type: Plasmid

Proper Citation

RRID:Addgene_50465

Plasmid Information

URL: <http://www.addgene.org/50465>

Proper Citation: RRID:Addgene_50465

Insert Name: EGFP

Organism: Aequorea victoria

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Size:4818; Vector Backbone:pAAV; Vector Types:AAV; Bacterial Resistance:Ampicillin

Comments: These plasmids were generated as part of the Illuminating the Druggable Genome (IDG) program sponsored by the NIH Common Fund. The goal of this program is to identify, gather, and distribute information and resources for proteins that currently are not well-studied yet belong to commonly drug-targeted protein families: protein kinases, non-olfactory G-protein coupled receptors (GPCRs), and ion channels. The IDG program is designed to develop fundamental research tools for understudied proteins, elucidate their function, and disseminate the IDG-related resources and data to the greater scientific community.

Plasmid Name: pAAV-hSyn-EGFP

Record Creation Time: 20220422T222258+0000

Record Last Update: 20260815T081608+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-hSyn-EGFP.

No alerts have been found for pAAV-hSyn-EGFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 223 mentions in open access literature.

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

Aaltonen A, et al. (2026) Postnatal reduction of eIF4E overexpression in D1-SPNs ameliorates KCNQ channel dysfunction, hyperexcitability and ASD-like behaviours. Cellular and molecular life sciences : CMLS, 83(1).

Capes DE, et al. (2026) Depleting non-resolving neuroinflammation in chronic spinal cord injury attenuates thermal hypersensitivity. Experimental neurology, 400, 115690.

Lin J, et al. (2026) AAVLINK: A potent DNA-recombination method for large cargo delivery in gene therapy. Cell, 189(3), 969.

Hou S, et al. (2026) Functional bipartition of medial prefrontal cortex into salience detection and movement gain. bioRxiv : the preprint server for biology.

Yerraguntla H, et al. (2026) Subcellular interactions of neuropeptide Y and corticotropin-releasing factor in the central nucleus of the amygdala in the mouse. Neuroscience, 600, 163.

Laughlin BW, et al. (2026) Serotype-dependent differences in AAV cellular transduction rates in the hypothalamus of Arctic ground squirrels. bioRxiv : the preprint server for biology.

Francis-Oliveira J, et al. (2026) Adolescent social isolation creates a latent vulnerability in maternal care with intergenerational social consequences, rescued by experienced mothers. bioRxiv : the preprint server for biology.

Cao Z, et al. (2026) The ventral hippocampus to paraventricular thalamus circuit regulates context-dependent hyperlocomotion through PAC1 receptor signaling in the chronic stress-induced PTSD mouse model. Translational psychiatry, 16(1).

Mitsui K, et al. (2026) Lateral hypothalamus to dorsal raphe nucleus projections modulate intraspecific attack behavior in male mice. iScience, 29(4), 115427.

Dearing C, et al. (2026) Prefrontal-medullary circuitry is necessary for sex-specific responses to metabolic stress in rats. bioRxiv : the preprint server for biology.

Kong D, et al. (2026) Acsl4-mediated Lipid Homeostasis Orchestrates Synaptic and Cognitive Plasticity. Research square.

Ge X, et al. (2026) The Logic of Thalamic Inputs onto the Molecular Taxonomy of Cortical Neurons Reveals a Visual Hierarchy. bioRxiv : the preprint server for biology.

Golbabaei A, et al. (2026) PV-dependent reorganization of prelimbic cortex sub-engrams during systems consolidation. *Neuron*, 114(1), 142.

Ellingford R, et al. (2026) Alzheimer's disease pathology degrades an NMDA receptor-dependent spontaneous activity pattern in cortico-hippocampal circuits. *Neuron*, 114(13), 2386.

Gandu SR, et al. (2025) Cypin regulates K63-linked polyubiquitination to shape synaptic content. *Science advances*, 11(28), eads5467.

Goh RCW, et al. (2025) The midline thalamic nucleus reuniens promotes compulsive-like grooming in rodents. *Translational psychiatry*, 15(1), 67.

Andoh M, et al. (2025) Nonapoptotic caspase-3 guides C1q-dependent synaptic phagocytosis by microglia. *Nature communications*, 16(1), 918.

Claeboe ET, et al. (2025) Proximity interactome mapping furthers a role for spinophilin in protein homeostasis. *iScience*, 28(11), 113735.

Miao Y, et al. (2025) Modulation of O-GlcNAc cycling influences α -synuclein amplification, degradation, and associated neuroinflammatory pathology. *Molecular neurodegeneration*, 20(1), 113.

Choi K, et al. (2025) Control of striatal circuit development by the chromatin regulator Zswim6. *Science advances*, 11(3), eadq6663.