Resource Summary Report

Generated by RRID on Sep 2, 2026

pAAV-hSyn-dLight1.2

RRID:Addgene_111068
Type: Plasmid

Proper Citation

RRID:Addgene_111068

Plasmid Information

URL: http://www.addgene.org/111068

Proper Citation: RRID:Addgene_111068

Insert Name: dLight1.2

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: PMID:29853555

Vector Backbone Description: Backbone Size:4579; Vector Backbone:pAAV-hSyn; Vector Types:AAV; Bacterial Resistance:Ampicillin

Plasmid Name: pAAV-hSyn-dLight1.2

Record Creation Time: 20220422T221540+0000

Record Last Update: 20260902T041206+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-hSyn-dLight1.2.

No alerts have been found for pAAV-hSyn-dLight1.2.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 26 mentions in open access literature.

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

Macdonald EE, et al. (2026) A synaptic mechanism for encoding the learned value of action-derived safety. Nature communications, 17(1).

Onimus O, et al. (2026) The gut-brain vagal axis governs mesolimbic dopamine dynamics and reward events. Science advances, 12(5), eadz0828.

Wallace CW, et al. (2025) Fiber photometry analysis of spontaneous dopamine signals: The z-scored data are not the data. bioRxiv : the preprint server for biology.

Sköld J, et al. (2025) Melanocortin 4 receptor-expressing neurons in the lateral stripe of the striatum regulate affect and motor control. iScience, 28(5), 112456.

Gonzalez LS, et al. (2025) Examining the role of the photopigment melanopsin in the striatal dopamine response to light. Frontiers in systems neuroscience, 19, 1568878.

Roshgadol JI, et al. (2025) Sensitive dLight3 for imaging broad-spectrum dopamine events across brain regions. Research square.

Perry-Hauser NA, et al. (2025) Altered striatal dopamine regulation in ADGRL3 knockout mice. bioRxiv : the preprint server for biology.

Magnard R, et al. (2025) Sequence termination cues drive habits via dopamine-mediated credit assignment. bioRxiv : the preprint server for biology.

Fisher AA, et al. (2025) Dopaminergic encoding of future defensive actions in the mouse nucleus accumbens. PNAS nexus, 4(5), pgaf128.

Qü AJ, et al. (2025) Nucleus accumbens dopamine release reflects Bayesian inference during instrumental learning. PLoS computational biology, 21(7), e1013226.

Athanassi A, et al. (2025) Optimized workflow for behavior-coupled fiber photometry experiment: improved data navigation and accessibility. Frontiers in neuroscience, 19, 1601127.

Molas S, et al. (2024) Dopamine control of social novelty preference is constrained by an interpeduncular-tegmentum circuit. Nature communications, 15(1), 2891.

Martínez-Rivera A, et al. (2024) Elevating levels of the endocannabinoid 2-arachidonoylglycerol blunts opioid reward but not analgesia. bioRxiv : the preprint server for biology.

Silva A, et al. (2024) High-Precision Optical Fiber-Based Lickometer. eNeuro, 11(7).

Wallace CW, et al. (2024) Kappa Opioid Receptors Negatively Regulate Real Time Spontaneous Dopamine Signals by Reducing Release and Increasing Uptake. bioRxiv : the preprint server for biology.

Bernklau TW, et al. (2024) Striatal dopamine signals reflect perceived cue-action-outcome associations in mice. Nature neuroscience.

Zhao F, et al. (2024) Apoptosis signal-regulating kinase 1 (Ask1) deficiency alleviates MPP+-induced impairment of evoked dopamine release in the mouse hippocampus. Frontiers in cellular neuroscience, 18, 1288991.

Gonzalez LS, et al. (2023) Ventral striatum dopamine release encodes unique properties of visual stimuli in mice. eLife, 12.

Martyniuk KM, et al. (2022) Dopamine D2Rs coordinate cue-evoked changes in striatal acetylcholine levels. eLife, 11.

Kundu S, et al. (2022) High throughput 3D gel-based neural organotypic model for cellular assays using fluorescence biosensors. Communications biology, 5(1), 1236.