Resource Summary Report

Generated by NIF on Jul 30, 2026

pAAV-CAG-dLight1.1

RRID:Addgene_111067
Type: Plasmid

Proper Citation

RRID:Addgene_111067

Plasmid Information

URL: http://www.addgene.org/111067

Proper Citation: RRID:Addgene_111067

Insert Name: dLight1.1

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: PMID:29853555

Vector Backbone Description: Backbone Size:5020; Vector Backbone:pAAV-CAG; Vector Types:AAV; Bacterial Resistance:Ampicillin

Comments: Addgene NGS identified chicken beta-actin promoter, but not the CMV enhancer and chimeric intron often associated with CAG promoters. Please see the associated diagnostic digest for plasmid verification.

Plasmid Name: pAAV-CAG-dLight1.1

Record Creation Time: 20220422T221540+0000

Record Last Update: 20260725T073505+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-CAG-dLight1.1.

No alerts have been found for pAAV-CAG-dLight1.1.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 24 mentions in open access literature.

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

Greenstreet F, et al. (2025) Dopaminergic action prediction errors serve as a value-free teaching signal. Nature, 643(8074), 1333.

Fry BR, et al. (2025) Devaluing memories of reward: a case for dopamine. Communications biology, 8(1), 161.

Montalban E, et al. (2025) Striatal astrocytes modulate behavioral flexibility and whole-body metabolism in mice. Nature communications, 16(1), 5417.

Zafiri D, et al. (2025) Dopamine prediction error signaling in a unique nigrostriatal circuit is critical for associative fear learning. Nature communications, 16(1), 3066.

Toth BA, et al. (2025) Phasic Dopamine Release in the Nucleus Accumbens Influences REM Sleep Timing. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(9).

Bouabid S, et al. (2025) Distinct spatially organized striatum-wide acetylcholine dynamics for the learning and extinction of Pavlovian associations. Nature communications, 16(1), 5169.

Faget L, et al. (2024) Ventral pallidum GABA and glutamate neurons drive approach and avoidance through distinct modulation of VTA cell types. Nature communications, 15(1), 4233.

Bouabid S, et al. (2024) Spatially organized striatum-wide acetylcholine dynamics for the learning and extinction of Pavlovian cues and actions. bioRxiv : the preprint server for biology.

Balsam PD, et al. (2024) Learning depends on the information conveyed by temporal relationships between events and is reflected in the dopamine response to cues. Science advances, 10(36), eadi7137.

Blanco-Pozo M, et al. (2024) Dopamine-independent effect of rewards on choices through hidden-state inference. Nature neuroscience, 27(2), 286.

Phillips CD, et al. (2024) Striatal Dopamine Contributions to Skilled Motor Learning. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(26).

Phillips CD, et al. (2024) Striatal dopamine contributions to skilled motor learning. bioRxiv : the preprint server for biology.

Toth BA, et al. (2023) Striatal dopamine regulates sleep states and narcolepsy-cataplexy. bioRxiv : the preprint server for biology.

Markowitz JE, et al. (2023) Spontaneous behaviour is structured by reinforcement without explicit reward. Nature, 614(7946), 108.

Zhou J, et al. (2023) AJ76 and UH232 as potential agents for diagnosing early-stage Parkinson's disease. Neuropharmacology, 226, 109397.

Kutlu MG, et al. (2023) Dopamine release at the time of a predicted aversive outcome causally controls the trajectory and expression of conditioned behavior. Cell reports, 42(8), 112948.

Faget L, et al. (2023) Ventral pallidum GABA and glutamate neurons drive approach and avoidance through distinct modulation of VTA cell types. bioRxiv : the preprint server for biology.

Lee SJ, et al. (2021) Cell-type-specific asynchronous modulation of PKA by dopamine in learning. Nature, 590(7846), 451.

Zhou J, et al. (2021) Dopamine Neuron Challenge Test for early detection of Parkinson's disease. NPJ Parkinson's disease, 7(1), 116.

Yang YF, et al. (2021) Mesencephalic dopamine neurons are essential for modafinil-induced arousal. British journal of pharmacology, 178(24), 4808.