

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

pAAV-Ef1a-DIO eNpHR 3.0-EYFP

RRID:Addgene_26966

Type: Plasmid

Proper Citation

RRID:Addgene_26966

Plasmid Information

URL: <http://www.addgene.org/26966>

Proper Citation: RRID:Addgene_26966

Insert Name: eNpHR 3.0

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:20303157](#)

Vector Backbone Description: Backbone Size:5609; Vector Backbone:pAAV; Vector Types:Mammalian Expression, AAV; Bacterial Resistance:Ampicillin

Comments: This plasmid contains the human elongation factor-1a promoter. Golgi export trafficking signal (TS) sequence is KSRITSEGEYIPLDQIDINV. ER export sequence is FCYENEV. For additional information please visit - <http://www.optogenetics.org>

Plasmid Name: pAAV-Ef1a-DIO eNpHR 3.0-EYFP

Relevant Mutation: ER export at 3' end of gene. Trafficking signal (TS) in between gene and fluorophore.

Record Creation Time: 20220422T222121+0000

Record Last Update: 20260725T074513+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-Ef1a-DIO eNpHR 3.0-EYFP.

No alerts have been found for pAAV-Ef1a-DIO eNpHR 3.0-EYFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 81 mentions in open access literature.

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

Ahmadlou M, et al. (2025) A subcortical switchboard for perseverative, exploratory and disengaged states. *Nature*, 641(8061), 151.

Liu Y, et al. (2025) A molecularly defined mPFC-BLA circuit specifically regulates social novelty preference. *Science advances*, 11(17), eadt9008.

Miyasaka A, et al. (2025) Sequential transitions of male sexual behaviors driven by dual acetylcholine-dopamine dynamics. *Neuron*, 113(8), 1240.

Yamada S, et al. (2025) Neuropeptide Y neurons in the basolateral amygdala project to the nucleus accumbens and stimulate high-fat intake. *Frontiers in cellular neuroscience*, 19, 1565939.

Yoshida E, et al. (2025) Whether or not to act is determined by distinct signals from motor thalamus and orbitofrontal cortex to secondary motor cortex. *Nature communications*, 16(1), 3106.

Rashid M, et al. (2025) A ventral hippocampal-lateral septum pathway regulates social novelty preference. *eLife*, 13.

Suh J, et al. (2025) Projection-specific roles of basolateral amygdala Thy1 neurons in alcohol-induced place preference. *Molecular psychiatry*.

Xue S, et al. (2025) Implantable Light-Powered Human Designer Cells for Electrical Energy Generation. *Advanced materials (Deerfield Beach, Fla.)*, 37(45), e02618.

Chiang CC, et al. (2025) Cathodal weak direct current decreases epileptic excitability with reduced neuronal activity and enhanced delta oscillations. *The Journal of physiology*, 603(9), 2763.

Aubry AV, et al. (2025) A crucial role for the cortical amygdala in shaping social encounters. *Nature*, 639(8056), 1006.

Zhang X, et al. (2025) Dopamine induces fear extinction by activating the reward-responding amygdala neurons. *Proceedings of the National Academy of Sciences of the United States of America*, 122(18), e2501331122.

Johnson NL, et al. (2025) Dopaminergic signaling to ventral striatum neurons initiates sniffing behavior. *Nature communications*, 16(1), 336.

B??sz E, et al. (2025) A cortico-subcortical loop for motor control via the pontine reticular formation. *Cell reports*, 44(2), 115230.

Kang S, et al. (2025) Pallidal prototypic neuron and astrocyte activities regulate flexible reward-seeking behaviors. *bioRxiv : the preprint server for biology*.

Hagena H, et al. (2025) Oppositional and competitive instigation of hippocampal synaptic plasticity by the VTA and locus coeruleus. *Proceedings of the National Academy of Sciences of the United States of America*, 122(1), e2402356122.

Fraser KM, et al. (2025) Contextual cues facilitate dynamic value encoding in the mesolimbic dopamine system. *Current biology : CB*, 35(4), 746.

Lee CR, et al. (2025) Separable dorsal raphe dopamine projections mimic the facets of a loneliness-like state. *eLife*, 14.

Jang M, et al. (2025) Increased mGluR5 in somatostatin-positive interneurons mediates deactivation of the mPFC in a mouse model of neuropathic pain. *Experimental & molecular medicine*, 57(4), 888.

Monical A, et al. (2025) Nicotine Withdrawal Drives Aversive Behaviors by Recruiting Inhibitory Interpeduncular Nucleus Inputs to the Laterodorsal Tegmentum in Mice. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(32).

Jung J, et al. (2025) Thalamo-hippocampal pathway determines aggression and self-harm. *Science advances*, 11(45), eady5540.