

Resource Summary Report

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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: 20240329T080558+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 36 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Zachry JE, et al. (2024) D1 and D2 medium spiny neurons in the nucleus accumbens core have distinct and valence-independent roles in learning. *Neuron*, 112(5), 835.

Paniccia JE, et al. (2024) Restoration of a paraventricular thalamo-accumbal behavioral suppression circuit prevents reinstatement of heroin seeking. *Neuron*, 112(5), 772.

Chaterji S, et al. (2024) The superior colliculus directs goal-oriented forelimb movements. *Cell reports*, 44(1), 115097.

Sharma S, et al. (2024) Inhibitory medial zona incerta pathway drives exploratory behavior by inhibiting glutamatergic cuneiform neurons. *Nature communications*, 15(1), 1160.

Koga K, et al. (2024) Anterior cingulate cross-hemispheric inhibition via the claustrum resolves painful sensory conflict. *Communications biology*, 7(1), 330.

Viellard JMA, et al. (2024) A subiculum-hypothalamic pathway functions in dynamic threat detection and memory updating. *Current biology : CB*, 34(12), 2657.

Liu Y, et al. (2024) A subset of dopamine receptor-expressing neurons in the nucleus accumbens controls feeding and energy homeostasis. *Nature metabolism*, 6(8), 1616.

Li M, et al. (2024) A mesocortical glutamatergic pathway modulates neuropathic pain independent of dopamine co-release. *Nature communications*, 15(1), 643.

Xiao C, et al. (2023) Glutamatergic and GABAergic neurons in pontine central gray mediate opposing valence-specific behaviors through a global network. *Neuron*, 111(9), 1486.

Hwang KD, et al. (2023) Cerebellar nuclei neurons projecting to the lateral parabrachial nucleus modulate classical fear conditioning. *Cell reports*, 42(4), 112291.

Callahan JW, et al. (2023) Movement-related increases in subthalamic activity optimize locomotion. *bioRxiv : the preprint server for biology*.

Sullere S, et al. (2023) A cholinergic circuit that relieves pain despite opioid tolerance. *Neuron*, 111(21), 3414.

Seiler JL, et al. (2022) Dopamine signaling in the dorsomedial striatum promotes compulsive behavior. *Current biology : CB*, 32(5), 1175.

Xu J, et al. (2022) Intersectional mapping of multi-transmitter neurons and other cell types in the brain. *Cell reports*, 40(1), 111036.

Yen TY, et al. (2022) Inhibitory projections connecting the dentate gyri in the two hemispheres support spatial and contextual memory. *Cell reports*, 39(7), 110831.

Varani S, et al. (2022) Stimulus Feature-Specific Control of Layer 2/3 Subthreshold Whisker Responses by Layer 4 in the Mouse Primary Somatosensory Cortex. *Cerebral cortex (New York, N.Y. : 1991)*, 32(7), 1419.

Seitz BM, et al. (2022) Dopamine errors drive excitatory and inhibitory components of backward conditioning in an outcome-specific manner. *Current biology : CB*, 32(14), 3210.

Yau JO, et al. (2021) The Roles of Basolateral Amygdala Parvalbumin Neurons in Fear Learning. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 41(44), 9223.

Maksymetz J, et al. (2021) mGlu1 potentiation enhances prelimbic somatostatin interneuron activity to rescue schizophrenia-like physiological and cognitive deficits. *Cell reports*, 37(5), 109950.

Pribrag H, et al. (2021) Ventral pallidum DRD3 potentiates a pallido-habenular circuit driving accumbal dopamine release and cocaine seeking. *Neuron*, 109(13), 2165.