

Resource Summary Report

Generated by [RRID](#) on Aug 27, 2026

pAAV-mDlx-ChR2-mCherry-Fishell-3

RRID:Addgene_83898

Type: Plasmid

Proper Citation

RRID:Addgene_83898

Plasmid Information

URL: <http://www.addgene.org/83898>

Proper Citation: RRID:Addgene_83898

Insert Name: ChR2

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:27798629](#)

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

Plasmid Name: pAAV-mDlx-ChR2-mCherry-Fishell-3

Record Creation Time: 20220422T222541+0000

Record Last Update: 20260815T082109+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-mDlx-ChR2-mCherry-Fishell-3.

No alerts have been found for pAAV-mDlx-ChR2-mCherry-Fishell-3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Shaw L, et al. (2026) Projection-specific intersectional optogenetics for precise excitation and inhibition in the marmoset brain. *Cell reports methods*, 6(4), 101368.

Kim S, et al. (2025) Alternatively spliced mini-exon B in PTP γ regulates excitatory synapses through cell-type-specific trans-synaptic PTP γ -IL1RAP interaction. *Nature communications*, 16(1), 4415.

Kim K, et al. (2025) Targeting the insular cortex for neuropathic pain modulation: Insights into synaptic and neuronal mechanisms. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 39(2), e70285.

Koster KP, et al. (2024) Convergence of inputs from the basal ganglia with layer 5 of motor cortex and cerebellum in mouse motor thalamus. *bioRxiv : the preprint server for biology*.

Heim F, et al. (2024) Disinhibition enables vocal repertoire expansion after a critical period. *Nature communications*, 15(1), 7565.

Mochizuki T, et al. (2024) Optogenetic stimulation of neurons in the anterior cingulate cortex induces changes in intravesical bladder pressure and the micturition reflex. *Scientific reports*, 14(1), 6367.

Koster KP, et al. (2024) Convergence of inputs from the basal ganglia with layer 5 of motor cortex and cerebellum in mouse motor thalamus. *eLife*, 13.

Aquino-Miranda G, et al. (2024) Functional properties of corticothalamic circuits targeting paraventricular thalamic neurons. *Neuron*, 112(24), 4060.

Yazdan-Shahmorad P, et al. (2023) Preferential transduction of parvalbumin-expressing cortical neurons by AAV-mDLX5/6 vectors. *Frontiers in neuroscience*, 17, 1269025.

Babji R, et al. (2023) Gabrb3 is required for the functional integration of pyramidal neuron subtypes in the somatosensory cortex. *Neuron*, 111(2), 256.

Ahmed N, et al. (2023) The Basolateral Amygdala Sends a Mixed (GABAergic and Glutamatergic) Projection to the Mediodorsal Thalamic Nucleus. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 43(12), 2104.

Montes-Lourido P, et al. (2022) Updates to the guinea pig animal model for in-vivo auditory neuroscience in the low-frequency hearing range. *Hearing research*, 424, 108603.

Schumacher JW, et al. (2022) Selective enhancement of neural coding in V1 underlies fine-discrimination learning in tree shrew. *Current biology : CB*, 32(15), 3245.

Yukinaga H, et al. (2022) Recording and manipulation of the maternal oxytocin neural activities in mice. *Current biology : CB*, 32(17), 3821.

De A, et al. (2020) Fast and reversible neural inactivation in macaque cortex by optogenetic stimulation of GABAergic neurons. *eLife*, 9.

Pelkey KA, et al. (2020) Paradoxical network excitation by glutamate release from VGlut3+ GABAergic interneurons. *eLife*, 9.