

Resource Summary Report

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

[pAAV-hDlx-GqDREADD-dTomato-Fishell-4](#)

RRID:Addgene_83897

Type: Plasmid

Proper Citation

RRID:Addgene_83897

Plasmid Information

URL: <http://www.addgene.org/83897>

Proper Citation: RRID:Addgene_83897

Insert Name: hM3Dq

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:27798629](#)

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

Plasmid Name: pAAV-hDlx-GqDREADD-dTomato-Fishell-4

Record Creation Time: 20220422T222541+0000

Record Last Update: 20260815T082109+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-hDlx-GqDREADD-dTomato-Fishell-4.

No alerts have been found for pAAV-hDlx-GqDREADD-dTomato-Fishell-4.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Huang JY, et al. (2025) From initial formation to developmental refinement: GABAergic inputs shape neuronal subnetworks in the primary somatosensory cortex. *iScience*, 28(3), 112104.

Sonoda T, et al. (2025) Experience influences the refinement of feature selectivity in the mouse primary visual thalamus. *Neuron*, 113(9), 1352.

Carty JRE, et al. (2025) Amygdala-liver signalling orchestrates glycaemic responses to stress. *Nature*.

Ruggiero A, et al. (2025) NMDA receptors regulate the firing rate set point of hippocampal circuits without altering single-cell dynamics. *Neuron*, 113(2), 244.

Wang M, et al. (2025) Enhanced Small Extracellular Vesicle Uptake by Activated Interneurons Improves Stroke Recovery in Mice. *Journal of extracellular biology*, 4(3), e70036.

Ha LJ, et al. (2024) Hypothalamic neuronal activation in non-human primates drives naturalistic goal-directed eating behavior. *Neuron*, 112(13), 2218.

Wu X, et al. (2024) Aging-associated decrease of PGC-1 α promotes pain chronification. *Aging cell*, 23(8), e14177.

Huang-Hobbs E, et al. (2023) Remote neuronal activity drives glioma progression through SEMA4F. *Nature*, 619(7971), 844.

Cheng YT, et al. (2023) Inhibitory input directs astrocyte morphogenesis through glial GABABR. *Nature*, 617(7960), 369.

Ding W, et al. (2023) Highly synchronized cortical circuit dynamics mediate spontaneous pain in mice. *The Journal of clinical investigation*, 133(5).

Ding W, et al. (2023) The endocannabinoid N-arachidonoyl dopamine is critical for hyperalgesia induced by chronic sleep disruption. *Nature communications*, 14(1), 6696.

Berzanskyte I, et al. (2023) Enrichment of human embryonic stem cell-derived V3 interneurons using an Nkx2-2 gene-specific reporter. *Scientific reports*, 13(1), 2008.

Tsai TC, et al. (2022) Distinct Contribution of Granular and Agranular Subdivisions of the Retrosplenial Cortex to Remote Contextual Fear Memory Retrieval. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 42(5), 877.

Hazard D, et al. (2022) The impact of C-tactile low-threshold mechanoreceptors on affective touch and social interactions in mice. *Science advances*, 8(26), eabo7566.

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

Thalhammer A, et al. (2022) Distributed interfacing by nanoscale photodiodes enables single-neuron light activation and sensory enhancement in 3D spinal explants. *Science advances*, 8(32), eabp9257.

Valero M, et al. (2022) Inhibitory conductance controls place field dynamics in the hippocampus. *Cell reports*, 40(8), 111232.

Pouchelon G, et al. (2022) A versatile viral toolkit for functional discovery in the nervous system. *Cell reports methods*, 2(6), 100225.

Vormstein-Schneider D, et al. (2020) Viral manipulation of functionally distinct interneurons in mice, non-human primates and humans. *Nature neuroscience*, 23(12), 1629.

Khademullah CS, et al. (2020) Cortical interneuron-mediated inhibition delays the onset of amyotrophic lateral sclerosis. *Brain : a journal of neurology*, 143(3), 800.