

Resource Summary Report

Generated by [RRID](#) on Aug 24, 2026

pAAV-hSyn-fDIO-hM4D(Gi)-mCherry-WPREpA

RRID:Addgene_154867

Type: Plasmid

Proper Citation

RRID:Addgene_154867

Plasmid Information

URL: <http://www.addgene.org/154867>

Proper Citation: RRID:Addgene_154867

Insert Name: hM4D(Gi)-mCherry

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29938215](#)

Vector Backbone Description: Backbone Marker:Gether lab - modified from Addgene plasmid #55641; Backbone Size:4824; Vector Backbone:pAAV-hSyn-Flp-WPRE; Vector Types:Mammalian Expression, AAV, FLP-FRT; Bacterial Resistance:Ampicillin

Plasmid Name: pAAV-hSyn-fDIO-hM4D(Gi)-mCherry-WPREpA

Record Creation Time: 20220422T221848+0000

Record Last Update: 20260815T080755+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-hSyn-fDIO-hM4D(Gi)-mCherry-WPREpA.

No alerts have been found for pAAV-hSyn-fDIO-hM4D(Gi)-mCherry-WPREpA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Golbabaei A, et al. (2026) PV-dependent reorganization of prelimbic cortex sub-engrams during systems consolidation. *Neuron*, 114(1), 142.

Tasaka GI, et al. (2026) Submedius thalamic inputs shape the presynaptic architecture of layer 5 orbitofrontal cortex in mice. *iScience*, 29(2), 114828.

Gongwer MW, et al. (2026) A cell type-specific mechanism driving the rapid antidepressant effects of transcranial magnetic stimulation. *Cell*, 189(10), 3052.

Carleton M, et al. (2026) Inhibitory Circuits Can Restore OFF Pathway Responses in Retinal Prostheses. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 46(24).

McMurray KMJ, et al. (2026) Projections from subfornical organ to infralimbic cortex modulate carbon dioxide associated fear. *bioRxiv : the preprint server for biology*.

Gongwer MW, et al. (2025) A cell type-specific mechanism driving the rapid antidepressant effects of transcranial magnetic stimulation. *bioRxiv : the preprint server for biology*.

Levi LA, et al. (2025) A ventral pallidal glutamatergic aversive network encodes abstinence from and reexposure to cocaine. *Science advances*, 11(30), eadu6074.

Williamson MR, et al. (2025) Learning-associated astrocyte ensembles regulate memory recall. *Nature*, 637(8045), 478.

Dwivedi D, et al. (2024) Metabotropic signaling within somatostatin interneurons controls transient thalamocortical inputs during development. *Nature communications*, 15(1), 5421.

Lu Y, et al. (2024) Dorsolateral septum GLP-1R neurons regulate feeding via lateral hypothalamic projections. *Molecular metabolism*, 85, 101960.

M??dol L, et al. (2024) Somatostatin interneurons control the timing of developmental desynchronization in cortical networks. *Neuron*, 112(12), 2015.

Liu S, et al. (2022) Divergent brainstem opioidergic pathways that coordinate breathing with pain and emotions. *Neuron*, 110(5), 857.