Resource Summary Report

Generated by NIF on Jul 30, 2026

pGP-AAV-syn-FLEX-jGCaMP7s-WPRE

RRID:Addgene_104491
Type: Plasmid

Proper Citation

RRID:Addgene_104491

Plasmid Information

URL: http://www.addgene.org/104491

Proper Citation: RRID:Addgene_104491

Insert Name: jGCaMP7s

Organism: Rattus norvegicus

Bacterial Resistance: Ampicillin

Defining Citation: PMID:31209382

Vector Backbone Description: Backbone Marker:Scott Sternson; Backbone Size:4894; Vector Backbone:AAV-Syn-FLEX; Vector Types:Mammalian Expression, AAV, Cre/Lox; Bacterial Resistance:Ampicillin

Comments: Please visit https://www.biorxiv.org/content/10.1101/434589v1 for bioRxiv preprint.

Plasmid Name: pGP-AAV-syn-FLEX-jGCaMP7s-WPRE

Record Creation Time: 20220422T221507+0000

Record Last Update: 20260725T073407+0000

Ratings and Alerts

No rating or validation information has been found for pGP-AAV-syn-FLEX-jGCaMP7s-WPRE.

No alerts have been found for pGP-AAV-syn-FLEX-jGCaMP7s-WPRE.

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 NIF .

Yang L, et al. (2026) IL-1R1-positive dorsal raphe neurons drive self-imposed social withdrawal in sickness. Cell, 189(1), 272.

Lowet AS, et al. (2025) An opponent striatal circuit for distributional reinforcement learning. Nature, 639(8055), 717.

Hwang J, et al. (2025) Liver-innervating vagal sensory neurons are indispensable for the development of hepatic steatosis and anxiety-like behavior in diet-induced obese mice. Nature communications, 16(1), 991.

Bair-Marshall CJ, et al. (2025) Neural circuit plasticity transforms infant neglect into maternal care. Research square.

Xie Y, et al. (2025) Activity-dependent synthesis of Emerin gates neuronal plasticity by regulating proteostasis. Cell reports, 44(4), 115439.

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

Yurgel ME, et al. (2025) A stress-sensing circuit signals to the central pacemaker to reprogram circadian rhythms. Science advances, 11(25), eadr7960.

Macha A, et al. (2025) Gephyrin filaments represent the molecular basis of inhibitory postsynaptic densities. Nature communications, 16(1), 8293.

Molinari M, et al. (2025) Dopamine and serotonin cotransmission filters striatonigral synaptic activity via 5-HT1B receptor activation. Science advances, 11(45), eadx4577.

Souza GMPR, et al. (2025) Interactions between Arousal State and CO2 Determine the Activity of Central Chemoreceptor Neurons That Drive Breathing. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(1).

Godschall EN, et al. (2025) A Brain Reward Circuit Inhibited By Next-Generation Weight Loss Drugs. bioRxiv : the preprint server for biology.

Huang F, et al. (2025) Cholecystokinin facilitates the formation of long-term heterosynaptic plasticity in the distal subiculum. Communications biology, 8(1), 153.

Haggerty DL, et al. (2024) Sex-dependent, lateralized engagement of anterior insular cortex inputs to the dorsolateral striatum in binge alcohol drinking. eLife, 13.

Ma J, et al. (2024) Convergent direct and indirect cortical streams shape avoidance decisions in mice via the midline thalamus. Nature communications, 15(1), 6598.

Tang Q, et al. (2023) A leptin-responsive hypothalamic circuit inputs to the circadian feeding network. bioRxiv : the preprint server for biology.

Tang Q, et al. (2023) Leptin receptor neurons in the dorsomedial hypothalamus input to the circadian feeding network. Science advances, 9(34), eadh9570.

Laing BT, et al. (2023) Anterior hypothalamic parvalbumin neurons are glutamatergic and promote escape behavior. Current biology : CB, 33(15), 3215.

Yau JO, et al. (2022) The activity of ventral tegmental area dopamine neurons during shock omission predicts safety learning. Behavioral neuroscience, 136(3), 276.

Strembitska A, et al. (2022) Lipid biosynthesis enzyme Agpat5 in AgRP-neurons is required for insulin-induced hypoglycemia sensing and glucagon secretion. Nature communications, 13(1), 5761.

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