

Resource Summary Report

Generated by [NIF](#) on Aug 3, 2026

pAAV-EF1a-FLEX-GTB

RRID:Addgene_26197

Type: Plasmid

Proper Citation

RRID:Addgene_26197

Plasmid Information

URL: <http://www.addgene.org/26197>

Proper Citation: RRID:Addgene_26197

Insert Name: Enhanced green fluorescent protein, TVA, rabies B19 glycoprotein

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:21068836](#)

Vector Backbone Description: Backbone Marker:Karl Deisseroth Lab; Backbone Size:5300; Vector Backbone:pAAV-double floxed-EYFP-WPRE-pA; Vector Types:AAV, Cre/Lox, Adeno-associated virus; Bacterial Resistance:Ampicillin

Plasmid Name: pAAV-EF1a-FLEX-GTB

Relevant Mutation: TVA, rabies glycoprotein are mammalian codon optimized

Record Creation Time: 20220422T222117+0000

Record Last Update: 20260801T081050+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-EF1a-FLEX-GTB.

No alerts have been found for pAAV-EF1a-FLEX-GTB.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Lin M, et al. (2025) A cholinergic spinal pathway for the adaptive control of breathing. bioRxiv : the preprint server for biology.

Lin M, et al. (2025) A cholinergic spinal pathway for the adaptive control of breathing. Cell reports, 44(8), 116078.

Vargas-Ortiz J, et al. (2025) Translaminar synchronous neuronal activity is required for columnar synaptic strengthening in the mouse neocortex. Nature communications, 16(1), 1296.

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

Lilascharoen V, et al. (2021) Divergent pallidal pathways underlying distinct Parkinsonian behavioral deficits. Nature neuroscience, 24(4), 504.

Bertero A, et al. (2019) A Non-Canonical Cortico-Amygdala Inhibitory Loop. The Journal of neuroscience : the official journal of the Society for Neuroscience, 39(43), 8424.

Che A, et al. (2018) Layer I Interneurons Sharpen Sensory Maps during Neonatal Development. Neuron, 99(1), 98.

Ni KM, et al. (2016) Selectively driving cholinergic fibers optically in the thalamic reticular nucleus promotes sleep. eLife, 5.

Tang JC, et al. (2015) Cell type-specific manipulation with GFP-dependent Cre recombinase. Nature neuroscience, 18(9), 1334.

Wang D, et al. (2015) Whole-brain mapping of the direct inputs and axonal projections of POMC and AgRP neurons. Frontiers in neuroanatomy, 9, 40.

Guo Q, et al. (2015) Whole-brain mapping of inputs to projection neurons and cholinergic interneurons in the dorsal striatum. PloS one, 10(4), e0123381.

Wall NR, et al. (2013) Differential innervation of direct- and indirect-pathway striatal projection neurons. Neuron, 79(2), 347.

Wall NR, et al. (2010) Monosynaptic circuit tracing in vivo through Cre-dependent targeting and complementation of modified rabies virus. Proceedings of the National Academy of Sciences of the United States of America, 107(50), 21848.