

Resource Summary Report

Generated by [NIF](#) on Sep 17, 2026

pAAV-flex-taCasp3-TEVp

RRID:Addgene_45580

Type: Plasmid

Proper Citation

RRID:Addgene_45580

Plasmid Information

URL: <http://www.addgene.org/45580>

Proper Citation: RRID:Addgene_45580

Insert Name: Caspase 3

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23663785](#)

Vector Backbone Description: Backbone Marker:Stratagene; Backbone Size:5347; Vector Backbone:pAAV-MCS; Vector Types:AAV, Adeno Associated Viral Vector; Bacterial Resistance:Ampicillin

Comments: The taCasp3-T2A-TEVp transgene was generated by overlapping PCR of plasmids harboring taCasp3 and TEVp (Gray et al., 2010; Cell 142, 637-646 PMID: 20723762). This transgene was inserted in reverse orientation into the plasmid pAAV-EF1a-DIO-hChR2(H134R)-EYFP-WPRE-pA such that it replaced hChR2(H134R)-EYFP

Plasmid Name: pAAV-flex-taCasp3-TEVp

Relevant Mutation: Linker replaced with a TEV protease cleavage site

Record Creation Time: 20220422T222235+0000

Record Last Update: 20260912T092738+0000

Ratings and Alerts

No rating or validation information has been found for pAAV-flex-taCasp3-TEVp.

No alerts have been found for pAAV-flex-taCasp3-TEVp.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 74 mentions in open access literature.

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

Tam HT, et al. (2026) Hyperinnervation inhibits organ-level regeneration in mammalian skin. *Cell*, 189(11), 3270.

Chen C, et al. (2026) WTR: A Toolkit for Functional Anterograde Transsynaptic Circuit Mapping. *bioRxiv : the preprint server for biology*.

Guillaumin A, et al. (2026) Dorsal Raphe VIP Neurons Are Critical for Survival-Oriented Vigilance. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(18), e23809.

Li R, et al. (2025) Functional Roles of Gastrin-Releasing Peptide-Producing Neurons in the Suprachiasmatic Nucleus: Insights into Photic Entrainment and Circadian Regulation. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(25).

Sayers S, et al. (2025) On the Pleiotropic Actions of Glucagon-like Peptide-1 in Its Regulation of Homeostatic and Hedonic Feeding. *International journal of molecular sciences*, 26(8).

Talbi R, et al. (2025) Melanocortin-responsive Kiss1 neurons of the arcuate nucleus drive energy expenditure through glutamatergic signaling to the dorsomedial hypothalamus. *bioRxiv : the preprint server for biology*.

Park JW, et al. (2025) Sex-Specific Thermoregulatory Effects of Estrogen Signaling in Reprimo Lineage Cells. *Endocrinology*, 167(1).

Cranfill SL, et al. (2025) Asymmetric lateral habenula function and peripheral neural mechanisms in regulating itch-evoked scratching. *Current biology : CB*, 35(24), 6180.

Anuncibay Soto B, et al. (2025) The locus coeruleus maintains core body temperature and protects against hypothermia during dexmedetomidine-induced sedation. *Proceedings of the National Academy of Sciences of the United States of America*, 122(41), e2422878122.

Phillips CD, et al. (2025) Sex and Time of Day Alter the Interactions Between Hypothalamic Glia and the Neural Circuits Controlling Reproduction. *Endocrinology*, 166(5).

Goto T, et al. (2025) Dietary availability acutely influences puberty onset via a hypothalamic neural circuit. *Neuron*, 113(7), 1036.

Zimmerman CA, et al. (2025) A neural mechanism for learning from delayed postingestive feedback. *Nature*, 642(8068), 700.

Yang M, et al. (2025) Separate orexigenic hippocampal ensembles shape dietary choice by enhancing contextual memory and motivation. *Nature metabolism*, 7(2), 276.

Zhao X, et al. (2025) Short-term social isolation acts on hypothalamic neurons to promote social behavior in a sex- and context-dependent manner. *eLife*, 13.

Sk??ld J, et al. (2025) Melanocortin 4 receptor-expressing neurons in the lateral stripe of the striatum regulate affect and motor control. *iScience*, 28(5), 112456.

Tasaka GI, et al. (2025) Orbitofrontal cortex influences dopamine dynamics associated with alloparental behavioral acquisition in female mice. *Science advances*, 11(27), eadr4620.

Lee H, et al. (2025) A dedicated skin-to-brain circuit for cool sensation in mice. *Nature communications*, 16(1), 6731.

Pasos J, et al. (2025) Angiotensin AT1R expressing cells within the ventral hypothalamus modulate integrative control of cardiometabolic functions. *iScience*, 28(7), 112797.

Imamura T, et al. (2025) Parafacial GABAergic neurone ablation induces behavioural resistance to volatile anaesthetic-induced hypnosis without reducing sleep. *British journal of anaesthesia*, 134(6), 1696.

Malone CA, et al. (2025) Rates of female mouse ultrasonic vocalizations are low and are not modulated by estrous state during interactions with muted males. *Scientific reports*, 15(1), 6841.