

Resource Summary Report

Generated by [NIF](#) on Sep 9, 2026

pCAX APP Swe/Ind

RRID:Addgene_30145

Type: Plasmid

Proper Citation

RRID:Addgene_30145

Plasmid Information

URL: <http://www.addgene.org/30145>

Proper Citation: RRID:Addgene_30145

Insert Name: human APP 695 Swedish/Indiana mutation

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:18160654](#)

Vector Backbone Description: Backbone Size:4731; Vector Backbone:pCAX; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pCAX APP Swe/Ind

Relevant Mutation: Swedish and Indiana; K595N, M596L and V642F

Record Creation Time: 20220422T222132+0000

Record Last Update: 20260905T075456+0000

Ratings and Alerts

No rating or validation information has been found for pCAX APP Swe/Ind.

No alerts have been found for pCAX APP Swe/Ind.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Houfková A, et al. (2025) New insights into the 17 β -hydroxysteroid dehydrogenase type 10 and amyloid- β 42 derived cytotoxicity relevant to Alzheimer's disease. *Alzheimer's research & therapy*, 17(1), 170.

Um JH, et al. (2024) Selective induction of Rab9-dependent alternative mitophagy using a synthetic derivative of isoquinoline alleviates mitochondrial dysfunction and cognitive deficits in Alzheimer's disease models. *Theranostics*, 14(1), 56.

Martinez TP, et al. (2024) Amyloid- β -induced dendritic spine elimination requires Ca²⁺-permeable AMPA receptors, AKAP-Calcineurin-NFAT signaling, and the NFAT target gene Mdm2. *eNeuro*, 11(3).

Ricciardi NR, et al. (2023) Investigating the Synergistic Potential of Low-Dose HDAC3 Inhibition and Radiotherapy in Alzheimer's Disease Models. *Molecular neurobiology*.

Park JS, et al. (2023) Establishing Co-Culture Blood-Brain Barrier Models for Different Neurodegeneration Conditions to Understand Its Effect on BBB Integrity. *International journal of molecular sciences*, 24(6).

Iyaswamy A, et al. (2023) Fe65-engineered neuronal exosomes encapsulating corynoxine-B ameliorate cognition and pathology of Alzheimer's disease. *Signal transduction and targeted therapy*, 8(1), 404.

Reinitz F, et al. (2022) Inhibiting USP16 rescues stem cell aging and memory in an Alzheimer's model. *eLife*, 11.

Lucero EM, et al. (2022) Increased KIF11/kinesin-5 expression offsets Alzheimer A β -mediated toxicity and cognitive dysfunction. *iScience*, 25(11), 105288.

Ali T, et al. (2021) Adiponectin-mimetic novel nonapeptide rescues aberrant neuronal metabolic-associated memory deficits in Alzheimer's disease. *Molecular neurodegeneration*, 16(1), 23.

Romani M, et al. (2021) NAD⁺ boosting reduces age-associated amyloidosis and restores mitochondrial homeostasis in muscle. *Cell reports*, 34(3), 108660.

Nowakowska-Gołacka J, et al. (2021) EDEM1 Regulates Amyloid Precursor Protein (APP) Metabolism and Amyloid- β Production. *International journal of molecular sciences*, 23(1).

Yuan Y, et al. (2021) Activation of ERK-Drp1 signaling promotes hypoxia-induced A β accumulation by upregulating mitochondrial fission and BACE1 activity. *FEBS open bio*, 11(10), 2740.

Cone AS, et al. (2020) Alix and Syntenin-1 direct amyloid precursor protein trafficking into extracellular vesicles. *BMC molecular and cell biology*, 21(1), 58.

Song JX, et al. (2020) A small molecule transcription factor EB activator ameliorates beta-amyloid precursor protein and Tau pathology in Alzheimer's disease models. *Aging cell*, 19(2), e13069.

Iyaswamy A, et al. (2020) NeuroDefend, a novel Chinese medicine, attenuates amyloid- β and tau pathology in experimental Alzheimer's disease models. *Journal of food and drug analysis*, 28(1), 132.

Fan W, et al. (2019) Mouse induced pluripotent stem cells-derived Alzheimer's disease cerebral organoid culture and neural differentiation disorders. *Neuroscience letters*, 711, 134433.

Velagapudi R, et al. (2018) Agathisflavone isolated from *Anacardium occidentale* suppresses SIRT1-mediated neuroinflammation in BV2 microglia and neurotoxicity in APPSwe-transfected SH-SY5Y cells. *Phytotherapy research : PTR*, 32(10), 1957.

Velagapudi R, et al. (2018) Activation of Nrf2 Pathway Contributes to Neuroprotection by the Dietary Flavonoid Tiliroside. *Molecular neurobiology*, 55(10), 8103.

Zheng T, et al. (2018) The release and transmission of amyloid precursor protein via exosomes. *Neurochemistry international*, 114, 18.

Yoon G, et al. (2018) The Adiponectin Homolog Osmotin Enhances Neurite Outgrowth and Synaptic Complexity via AdipoR1/NgR1 Signaling in Alzheimer's Disease. *Molecular neurobiology*, 55(8), 6673.