Resource Summary Report

Generated by NIF on Sep 7, 2026

STOCK-Tg(APPSwe,tauP301L)1Lfa *Psen1*^{tm1Mpm}/Mmjax

RRID:MMRRC_034830-JAX
Type: Organism

Proper Citation

RRID:MMRRC_034830-JAX

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=34830

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Description: Mus musculus with name STOCK-Tg(APPSwe,tauP301L)1Lfa *Psen1* ^{tm1Mpm}/Mmjax from MMRRC.

Species: Mus musculus

Notes: Research areas: ; Mutation Type: Targeted Mutation ; Collection:

Phenotype: abnormal microglial cell morphology [MP:0000136]| short tail [MP:0000592]| increased anxiety-related response [MP:0001363]| hypoactivity [MP:0001402]| abnormal contextual conditioning behavior [MP:0001469]| increased circulating corticosterone level [MP:0001745]| hemorrhage [MP:0001914]| abnormal learning/memory/conditioning [MP:0002063]| abnormal brain morphology [MP:0002152]| neurodegeneration [MP:0002229]| neurofibrillary tangles [MP:0003214]| neuron degeneration [MP:0003224]| amyloid beta deposits [MP:0003329]| increased fear-related response [MP:0003459]| abnormal microglial cell physiology [MP:0003691]| decreased fetal size [MP:0004200]| tau protein deposits [MP:0004250]| abnormal behavior [MP:0004924]| abnormal limb development [MP:0006279]| increased susceptibility to neuronal excitotoxicity [MP:0008235]| abnormal spatial working memory [MP:0008428]| enhanced contextual conditioning behavior [MP:0009453]| abnormal neuron differentiation [MP:0009937]| lethality throughout fetal growth and development [MP:0011099]

Affected Gene: |Psen1||MAPT|APP|Thy1

Catalog Number: 034830-JAX

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: PMID:21368062, PMID:9641683, PMID:12895417, PMID:9883847

Alternate IDs: MMRRC_34830-JAX, MMRRC_034830, MMRRC_3483

Organism Name: STOCK-Tg(APPSwe,tauP301L)1Lfa *Psen1*^{tm1Mpm}/Mmjax

Record Creation Time: 20230308T055135+0000

Record Last Update: 20260905T110902+0000

Ratings and Alerts

No rating or validation information has been found for STOCK-Tg(APPSwe,tauP301L)1Lfa *Psen1*^{tm1Mpm}/Mmjax.

No alerts have been found for STOCK-Tg(APPSwe,tauP301L)1Lfa *Psen1*^{tm1Mpm}/Mmjax.

Data and Source Information

Source: Integrated Animals

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We found 350 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Dai CL, et al. (2026) Therapeutic nanoliposome vaccine targeting multiple A? and tau epitopes reduces AD-like brain pathologies and rescues cognitive deficits in 3xTg-AD mice. Brain, behavior, & immunity - health, 51, 101167.

M'Bra PEH, et al. (2026) Medium-chain triglycerides improve cognition and systemic metabolism in mouse models of Alzheimer's disease. Brain : a journal of neurology, 149(1), 105.

Jadiya P, et al. (2026) Genetic ablation of neuronal mitochondrial calcium uptake impedes Alzheimer's disease progression. The EMBO journal, 45(13), 4469.

Guo Y, et al. (2026) Neuroprotective effects of SRS11-92 against oxidative stress-induced senescence via Nrf2/HO-1/NF-?B in Alzheimer's disease models. Inflammopharmacology, 34(1), 495.

Burgos-Puentes S, et al. (2026) Animal Models of Alzheimer's Disease Evaluated with [11C]Pittsburg Compound B. Life (Basel, Switzerland), 16(1).

Giménez-Llort L, et al. (2026) Premature Neuroimmune and Redox-Inflammatory Breakdown at the Prodromal Stage in Male and Female Triple-Transgenic Alzheimer's

Disease Mice. Diseases (Basel, Switzerland), 14(2).

Jarrahi A, et al. (2026) Mathematical Framework for Quantifying Delocalization in MALDI-MSI via a Composite Scoring Approach. ACS measurement science au, 6(1), 134.

Yu H, et al. (2026) HMGCS2-dependent ?-OHB/H3K9bhb ameliorates synaptic plasticity and cognition in Alzheimer's disease. Experimental & molecular medicine, 58(3), 813.

Pastén-Castrejón NJ, et al. (2026) Hippocampal, Microglial, Morphological, and Amyloid Profiles Following Thiamine Pyrophosphate Treatment in 3xTg-AD Mice. International journal of molecular sciences, 27(11).

Li S, et al. (2026) Ganglioside sialylation modulates tau internalization and pathology spread. Molecular psychiatry, 31(5), 2561.

Khajuria P, et al. (2026) AMPK-mediated autophagy induction by bisdemethoxycurcumin attenuates senescence and amyloid pathology in 3xTg-AD mice. Autophagy reports, 5(1), 2675164.

Hong R, et al. (2026) Cynanchum bungei Decne-derived extracellular vesicles alleviate cognitive impairment and pathological damage in Alzheimer's disease. Frontiers in cellular neuroscience, 20, 1798965.

Guo S, et al. (2026) Early astrocyte-targeted intervention guided by 18F-SMBT-1 imaging attenuates disease progression in 3xTg-AD mice. European journal of nuclear medicine and molecular imaging, 53(3), 2034.

Uhl GR, et al. (2026) Altering PTPRD via genetics or pharmacology modulates 3xTg-AD mouse neurofibrillary pathology. Frontiers in neuroscience, 20, 1803332.

Lee S, et al. (2026) Kilovoltage Energy Significantly Enhances the Therapeutic Efficacy of Low-Dose Radiation in a 3xTg-AD Mouse Model of Alzheimer's Disease. International journal of molecular sciences, 27(12).

Shibata T, et al. (2026) Angiotensin-converting enzyme overexpression in mouse neutrophils prevents Alzheimer's-like cognitive decline. Frontiers in immunology, 17, 1674330.

Goloborshcheva VV, et al. (2026) Insights into the Impact of Low-Dose Ionizing Radiation on Neurodegenerative Disease Progression in In Vivo Models. International journal of molecular sciences, 27(8).

Devadoss D, et al. (2026) A Novel Competing Endogenous RNA Linked to Dysregulated Neuroinflammation in Alzheimer's Disease. Cells, 15(5).

Sui Y, et al. (2026) Entorhinal Cholecystokinin in Alzheimer's Disease: Its Earliest Vulnerability and Rescue Effects Across Different Disease Stages in a Mouse Model. Cellular and molecular neurobiology, 46(1).

Andrade-Guerrero J, et al. (2026) Physical exercise mitigates motor and muscular deficits in the 3xTg-AD model of Alzheimer's disease. Frontiers in aging neuroscience, 18, 1730578.