

Resource Summary Report

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STOCK-Tg(APP^{Swe},tau^{P301L})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(APP^{Swe},tau^{P301L})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: MMRRRC

Source References: [PMID:21368062](#), [PMID:9641683](#), [PMID:12895417](#), [PMID:9883847](#)

Alternate IDs: MMRRRC_34830-JAX, MMRRRC_034830, MMRRRC_3483

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

Record Creation Time: 20230308T055135+0000

Record Last Update: 20260801T124308+0000

Ratings and Alerts

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

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

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We found 350 mentions in open access literature.

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

Dai CL, et al. (2026) Therapeutic nanoliposome vaccine targeting multiple A β 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- κ 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 γ -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).

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.

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

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.

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).

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).

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.

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.

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