

Resource Summary Report

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B6.Cg-Tg(Thy1-APP)3Somm/J

RRID:IMSR_JAX:030504

Type: Organism

Proper Citation

RRID:IMSR_JAX:030504

Organism Information

URL: <https://www.jax.org/strain/030504>

Proper Citation: RRID:IMSR_JAX:030504

Description: Mus musculus with name B6.Cg-Tg(Thy1-APP)3Somm/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: amyloid beta precursor protein|transgene insertion 3; Bernd Sommer|thymus cell antigen 1; theta; mutant strain|congenic strain: APP|Tg(Thy1-APP)3Somm|Thy1

Affected Gene: amyloid beta precursor protein|transgene insertion 3; Bernd Sommer|thymus cell antigen 1; theta

Genomic Alteration: transgene insertion 3; Bernd Sommer

Catalog Number: JAX:030504

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Thy1-APP)3Somm/J

Record Creation Time: 20250513T053815+0000

Record Last Update: 20260725T044518+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Thy1-APP)3Somm/J.

No alerts have been found for B6.Cg-Tg(Thy1-APP)3Somm/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 45 mentions in open access literature.

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

Palermo F, et al. (2025) Investigating gut alterations in Alzheimer's disease: In-depth analysis with micro- and nano-3D X-ray phase contrast tomography. *Science advances*, 11(5), eadr8511.

Sun R, et al. (2025) Sex-specific changes in energy demand during the preplaque stage in a transgenic Alzheimer's mouse model. *Biology of sex differences*, 16(1), 54.

Bi D, et al. (2025) BACE1-dependent cleavage of GABAA receptor contributes to neural hyperexcitability and disease progression in Alzheimer's disease. *Neuron*, 113(7), 1051.

Leinenga G, et al. (2024) Scanning ultrasound-mediated memory and functional improvements do not require amyloid- β reduction. *Molecular psychiatry*, 29(8), 2408.

Bonaterra-Pastra A, et al. (2024) The presence of circulating human apolipoprotein J reduces the occurrence of cerebral microbleeds in a transgenic mouse model with cerebral amyloid angiopathy. *Alzheimer's research & therapy*, 16(1), 169.

Wang Q, et al. (2024) SIL1 improves cognitive impairment in APP23/PS45 mice by regulating amyloid precursor protein processing and A β generation. *Zoological research*, 45(4), 845.

Iwata N, et al. (2024) Metabolic resistance of A β 3pE-42, a target epitope of the anti-Alzheimer therapeutic antibody, donanemab. *Life science alliance*, 7(12).

Howe JR, et al. (2024) Control of innate olfactory valence by segregated cortical amygdala circuits. *bioRxiv : the preprint server for biology*.

Malik SC, et al. (2023) Tpr Misregulation in Hippocampal Neural Stem Cells in Mouse Models of Alzheimer's Disease. *Cells*, 12(23).

Whittaker DS, et al. (2023) Circadian modulation by time-restricted feeding rescues brain pathology and improves memory in mouse models of Alzheimer's disease. *Cell metabolism*, 35(10), 1704.

Solé M, et al. (2023) Therapeutic effect of human ApoA-I-Milano variant in aged transgenic mouse model of Alzheimer's disease. *British journal of pharmacology*.

Wagner J, et al. (2022) Medin co-aggregates with vascular amyloid- β in Alzheimer's disease. *Nature*, 612(7938), 123.

Shigemori K, et al. (2022) Peripheral A β acts as a negative modulator of insulin secretion. *Proceedings of the National Academy of Sciences of the United States of America*, 119(12), e2117723119.

Ziegler-Walckirch S, et al. (2022) Seed-induced A β deposition alters neuronal function and impairs olfaction in a mouse model of Alzheimer's disease. *Molecular psychiatry*, 27(10), 4274.

Zattoni M, et al. (2022) Serpin Signatures in Prion and Alzheimer's Diseases. *Molecular neurobiology*, 59(6), 3778.

Marazuela P, et al. (2022) Impact of Cerebral Amyloid Angiopathy in Two Transgenic Mouse Models of Cerebral β -Amyloidosis: A Neuropathological Study. *International journal of molecular sciences*, 23(9).

Dhandapani R, et al. (2022) Sustained Trem2 stabilization accelerates microglia heterogeneity and A β pathology in a mouse model of Alzheimer's disease. *Cell reports*, 39(9), 110883.

Yang S, et al. (2021) IKK2/NF- κ B Activation in Astrocytes Reduces amyloid β Deposition: A Process Associated with Specific Microglia Polarization. *Cells*, 10(10).

Marazuela P, et al. (2021) MFG-E8 (LACTADHERIN): a novel marker associated with cerebral amyloid angiopathy. *Acta neuropathologica communications*, 9(1), 154.

Giménez-Llort L, et al. (2021) Survival Bias and Crosstalk between Chronological and Behavioral Age: Age- and Genotype-Sensitivity Tests Define Behavioral Signatures in Middle-Aged, Old, and Long-Lived Mice with Normal and AD-Associated Aging. *Biomedicines*, 9(6).