

Resource Summary Report

Generated by [kravitz2](#) on Sep 19, 2026

C57BL/6J-Trem2^{em2Aduj/J}

RRID:IMSR_JAX:027197

Type: Organism

Proper Citation

RRID:IMSR_JAX:027197

Organism Information

URL: <https://www.jax.org/strain/027197>

Proper Citation: RRID:IMSR_JAX:027197

Description: Mus musculus with name C57BL/6J-Trem2^{em2Aduj/J} from IMSR.

Species: Mus musculus

Synonyms: C57BL/6J-Trem2/J. C57BL/6J-Trem2/J

Notes: gene symbol note: triggering receptor expressed on myeloid cells 2; coisogenic strain|mutant strain: Trem2

Affected Gene: triggering receptor expressed on myeloid cells 2

Genomic Alteration: endonuclease-mediated mutation 2; MODEL-AD Center

Catalog Number: JAX:027197

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6J-Trem2^{em2Aduj/J}

Record Creation Time: 20250513T053759+0000

Record Last Update: 20260919T054944+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6J-Trem2^{em2Aduj/J}.

No alerts have been found for C57BL/6J-Trem2^{em2Adiuj/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 14 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

Rai A, et al. (2026) TREM2 and APOE are dispensable for microglial clearance of dying neurons revealed by in vivo imaging. *iScience*, 29(2), 114559.

Distéfano-Gagné F, et al. (2026) Multi-tier signaling and chromatin remodeling coordinate microglia inflammatory states and activities associated with demyelination. *Cell reports*, 45(7), 117569.

Fremuth LE, et al. (2025) Neuraminidase 1 regulates neuropathogenesis by governing the cellular state of microglia via modulation of Trem2 sialylation. *Cell reports*, 44(1), 115204.

Wang T, et al. (2025) TREM2-Mediated Myeloid Cells Protect Against Pathological Choroidal Neovascularization. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 39(14), e70881.

Le LHD, et al. (2025) The microglial response to inhibition of Colony-stimulating-factor-1 receptor by PLX3397 differs by sex in adult mice. *Cell reports*, 44(1), 115176.

Messenger EJ, et al. (2025) PLCG2 modulates TREM2 expression and signaling in response to Alzheimer's disease pathology. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(5), e70231.

Mehrabani-Tabari AA, et al. (2025) Inhibition of autophagy-lysosomal function exacerbates microglial and monocyte lipid metabolism reprogramming and dysfunction after brain injury. *bioRxiv : the preprint server for biology*.

Yin T, et al. (2024) Functional BRI2-TREM2 interactions in microglia: implications for Alzheimer's and related dementias. *EMBO reports*, 25(3), 1326.

Pierro EW, et al. (2024) Trem2 deficiency attenuates breast cancer tumor growth in lean, but not obese or weight loss, mice and is associated with alterations of clonal T cell populations. *bioRxiv : the preprint server for biology*.

Peshoff MM, et al. (2023) Triggering receptor expressed on myeloid cells 2 (TREM2) regulates phagocytosis in glioblastoma. *bioRxiv : the preprint server for biology*.

Yoo Y, et al. (2023) A cell therapy approach to restore microglial Trem2 function in a mouse model of Alzheimer's disease. *Cell stem cell*, 30(8), 1043.

Yin T, et al. (2023) BRI2-mediated regulation of TREM2 processing in microglia and its potential implications for Alzheimer's disease and related dementias. *bioRxiv : the preprint server for biology*.

Weng Y, et al. (2021) Trem2 mediated Syk-dependent ROS amplification is essential for osteoclastogenesis in periodontitis microenvironment. *Redox biology*, 40, 101849.

Li Q, et al. (2019) Developmental Heterogeneity of Microglia and Brain Myeloid Cells Revealed by Deep Single-Cell RNA Sequencing. *Neuron*, 101(2), 207.