

Resource Summary Report

Generated by [RRID](#) on Jul 30, 2026

B6.Cg-Apoe^{em2}(APOE*)Adiuj/J

RRID:IMSR_JAX:029018

Type: Organism

Proper Citation

RRID:IMSR_JAX:029018

Organism Information

URL: <https://www.jax.org/strain/029018>

Proper Citation: RRID:IMSR_JAX:029018

Description: Mus musculus with name B6.Cg-Apoe^{em2}(APOE*)Adiuj/J from IMSR.

Species: Mus musculus

Synonyms: B6(SJL)-Apoe/J

Notes: gene symbol note: apolipoprotein E; mutant strain|congenic strain: Apoe|APOE

Affected Gene: apolipoprotein E

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

Catalog Number: JAX:029018

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Apoe^{em2}(APOE*)Adiuj/J

Record Creation Time: 20250513T053807+0000

Record Last Update: 20260725T044513+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Apoe^{em2}(APOE*)Adiuj/J.

No alerts have been found for B6.Cg-Apoe^{em2}(APOE*)Adiuj/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Stephenson RA, et al. (2025) Triglyceride metabolism controls inflammation and microglial phenotypes associated with APOE4. *Cell reports*, 44(7), 115961.

Schuldt BR, et al. (2025) APOE4 promotes cerebrovascular fibrosis and amyloid deposition via a pericyte-to-myofibroblast transition. *bioRxiv : the preprint server for biology*.

Yu K, et al. (2025) Astrocytic spermidine insufficiency contributes to enhanced pain sensitivity associated with ApoE4. *The journal of headache and pain*, 26(1), 116.

Al-Amin MM, et al. (2025) Apolipoprotein ?4 exacerbates white matter impairment in a mouse model of A? amyloidosis by decreasing actively myelinating oligodendrocytes. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(10), e70791.

Wang Y, et al. (2025) ApoE4 Upregulates GSK-3? to Aggravate Alzheimer-Like Pathologies and Cognitive Impairment in Type 2 Diabetic Mice. *CNS neuroscience & therapeutics*, 31(9), e70575.

Ritzel RM, et al. (2023) Brain injury accelerates the onset of a reversible age-related microglial phenotype associated with inflammatory neurodegeneration. *Science advances*, 9(10), eadd1101.

Konings SC, et al. (2023) Apolipoprotein E intersects with amyloid-? within neurons. *Life science alliance*, 6(8).

Rai A, et al. (2023) Detection of early Alzheimer's disease-like molecular alterations in a mouse model expressing human ApoE4. *Journal of neurochemistry*, 166(3), 572.

Fleeman RM, et al. (2023) Apolipoprotein E ?4 modulates astrocyte neuronal support functions in the presence of amyloid-?. *Journal of neurochemistry*, 165(4), 536.

Li X, et al. (2021) Astrocytic ApoE reprograms neuronal cholesterol metabolism and histone-acetylation-mediated memory. *Neuron*, 109(6), 957.

Desimone A, et al. (2021) The influence of ApoE4 on the clinical outcomes and pathophysiology of degenerative cervical myelopathy. *JCI insight*, 6(15).

Konings SC, et al. (2021) Astrocytic and Neuronal Apolipoprotein E Isoforms Differentially Affect Neuronal Excitability. *Frontiers in neuroscience*, 15, 734001.

Qi G, et al. (2021) ApoE4 Impairs Neuron-Astrocyte Coupling of Fatty Acid Metabolism. Cell reports, 34(1), 108572.