

Resource Summary Report

Generated by [RRID](#) on Aug 1, 2026

B6(SJL)-Apoe^{tm1.1(APOE*4)}Adiuj/J

RRID:IMSR_JAX:027894

Type: Organism

Proper Citation

RRID:IMSR_JAX:027894

Organism Information

URL: <https://www.jax.org/strain/027894>

Proper Citation: RRID:IMSR_JAX:027894

Description: Mus musculus with name B6(SJL)-Apoe^{tm1.1(APOE*4)}Adiuj/J from IMSR.

Species: Mus musculus

Synonyms: B6(SJL)-Apoe/J

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

Affected Gene: apolipoprotein E

Genomic Alteration: targeted mutation 1.1; MODEL-AD Center

Catalog Number: JAX:027894

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6(SJL)-Apoe^{tm1.1(APOE*4)}Adiuj/J

Record Creation Time: 20250513T053802+0000

Record Last Update: 20260801T050514+0000

Ratings and Alerts

No rating or validation information has been found for B6(SJL)-Apoe^{tm1.1(APOE*4)}Adiuj/J.

No alerts have been found for B6(SJL)-Apoe^{tm1.1(APOE*4)}Adiuj/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

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.

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

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

McGregor JN, et al. (2024) Failure in a population: Tauopathy disrupts homeostatic set-points in emergent dynamics despite stability in the constituent neurons. Neuron, 112(21), 3567.

Ramani B, et al. (2023) Scalable, cell type-selective, AAV-based in vivo CRISPR screening in the mouse brain. bioRxiv : the preprint server for biology.

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 ϵ 4 modulates astrocyte neuronal support functions in the presence of amyloid- β . Journal of neurochemistry, 165(4), 536.

Maguire E, et al. (2021) PIP2 depletion and altered endocytosis caused by expression of Alzheimer's disease-protective variant PLC γ 2 R522. The EMBO journal, 40(17), e105603.

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