

Resource Summary Report

Generated by PRECISE-TBI on Aug 2, 2026

B6.129P2-Apoe^{tm1Unc}/J

RRID:IMSR_JAX:002052

Type: Organism

Proper Citation

RRID:IMSR_JAX:002052

Organism Information

URL: <https://www.jax.org/strain/002052>

Proper Citation: RRID:IMSR_JAX:002052

Description: Mus musculus with name B6.129P2-Apoe^{tm1Unc}/J from IMSR.

Species: Mus musculus

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

Affected Gene: apolipoprotein E

Genomic Alteration: targeted mutation 1; University of North Carolina

Catalog Number: JAX:002052

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129P2-Apoe^{tm1Unc}/J

Record Creation Time: 20250513T053629+0000

Record Last Update: 20260801T050334+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2-Apoe^{tm1Unc}/J.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human coronary artery disease.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 825 mentions in open access literature.

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

Zeng W, et al. (2026) Restoring immune homeostasis in atherosclerotic plaques via inorganic violet phosphorus nano-immunotherapy. *Cell reports. Medicine*, 102528.

Mangarova DB, et al. (2025) ADAMTS4-Specific MR Peptide Probe for the Assessment of Atherosclerotic Plaque Burden in a Mouse Model. *Investigative radiology*, 60(8), 499.

Beckman TN, et al. (2025) A prometabolite strategy inhibits cardiometabolic disease in an ApoE^{-/-} murine model of atherosclerosis. *JCI insight*, 10(15).

Yoshimura T, et al. (2025) Gut dysbiosis induced by a high-salt diet aggravates atherosclerosis by increasing the absorption of saturated fatty acids in ApoE-deficient mice. *Journal of clinical biochemistry and nutrition*, 76(2), 210.

Yao J, et al. (2025) Ex vivo phosphorus-31 solid state magnetic resonance spectroscopy identifies compositional differences between bone mineral and calcified vascular tissues. *Frontiers in cardiovascular medicine*, 12, 1689116.

Liang M, et al. (2025) A mitochondria-targeted fluoropolymer nanoparticle with inherent mitophagy-inducing and red fluorescence properties for treatment of atherosclerosis. *Nature communications*, 16(1), 9845.

Daoud F, et al. (2025) YAP/TAZ deletion in vascular smooth muscle cells mirrors atherosclerosis-associated transcriptional programs. *Journal of molecular and cellular cardiology plus*, 14, 100487.

Gao X, et al. (2025) Jianpi Qutan Decoction improves hepatic lipid metabolism in atherosclerosis mice via PPAR γ -CPT1 γ pathway regulation. *Hereditas*, 162(1), 209.

Ibrahim N, et al. (2025) Extracellular RNA as a molecular driver and therapeutic target in abdominal aortic aneurysms. *Scientific reports*, 15(1), 38266.

Quelquejay H, et al. (2025) Sexual dimorphism in ¹³⁷Cs accumulation after chronic low dose exposure in mice. *Scientific reports*, 15(1), 38365.

Tanwar VS, et al. (2025) Palmitic acid alters enhancers/super-enhancers near inflammatory and efferocytosis-associated genes in human monocytes. *Journal of lipid research*, 66(4), 100774.

Xia B, et al. (2025) Galactin-8 DNA methylation mediates macrophage autophagy through the MAPK/mTOR pathway to alleviate atherosclerosis. *Scientific reports*, 15(1), 603.

Yong X, et al. (2025) Identification of novel biomarkers for atherosclerosis using single-cell RNA sequencing and machine learning. *Mammalian genome : official journal of the International Mammalian Genome Society*, 36(1), 183.

Zhang J, et al. (2025) A comprehensive analysis of microRNA alteration in an ApoE(-/-) mice model of white adipose tissue injury induced by chronic intermittent hypoxia. *Frontiers in genetics*, 16, 1474223.

Xue Y, et al. (2025) Macrophage KDM2A promotes atherosclerosis via regulating FYN and inducing inflammatory response. *International journal of biological sciences*, 21(6), 2780.

Hu D, et al. (2025) Resveratrol improved atherosclerosis by increasing LDLR levels via the EGFR-ERK1/2 signaling pathway. *Lipids in health and disease*, 24(1), 167.

Gong Z, et al. (2025) Mechanisms of wogonoside in the treatment of atherosclerosis based on network pharmacology, molecular docking, and experimental validation. *BMC complementary medicine and therapies*, 25(1), 28.

Padilla MS, et al. (2025) Branched endosomal disruptor (BEND) lipids mediate delivery of mRNA and CRISPR-Cas9 ribonucleoprotein complex for hepatic gene editing and T cell engineering. *Nature communications*, 16(1), 996.

Shi Y, et al. (2025) Ganglioside GA2-mediated caspase-11 activation drives macrophage pyroptosis aggravating intimal hyperplasia after arterial injury. *International journal of biological sciences*, 21(1), 433.

Wang Y, et al. (2025) Synergistic effects of notoginsenoside R1 and saikosaponin B2 in atherosclerosis: A novel approach targeting PI3K/AKT/mTOR pathway and macrophage autophagy. *PloS one*, 20(6), e0326687.