

Resource Summary Report

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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 [NIF](#) .

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.

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.

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.

Schmalzriedt DL, et al. (2025) Apolipoprotein E selectively supports gammaherpesvirus replication in macrophages. *Journal of virology*, 99(6), e0048025.

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.

Cho SH, et al. (2025) ApoE deficiency protects from mRNA vaccine-induced mitochondrial dysfunction at the injection site under metabolic stress. *Theranostics*, 15(17), 8964.

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.

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.