

Resource Summary Report

Generated by ASWG on Sep 20, 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: 20260919T054818+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 872 mentions in open access literature.

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

Wei S, et al. (2026) Enhancing Mitophagy with PEP-1-CAT Attenuates Vascular Inflammation and Atherogenesis in Mice. *Inflammation*, 49(1), 81.

McGrath ER, et al. (2026) ApoE-Dependent Lipid Handling by Median Eminence Microglia Preserves Myelin Integrity and Metabolic Function. *bioRxiv : the preprint server for biology*.

Zhang K, et al. (2026) Single intramuscular injection of self-amplifying RNA of Nppa to treat myocardial infarction. *Science (New York, N.Y.)*, 391(6789), edau9394.

Yonekawa J, et al. (2026) Tet2-driven clonal hematopoiesis drives aortic aneurysm via macrophage-to-osteoclast-like differentiation. *The Journal of clinical investigation*, 136(8).

Ha J, et al. (2026) A MAM-targeting therapeutic peptide restores autophagy homeostasis and ameliorates atherosclerosis. *Theranostics*, 16(11), 6113.

Hu ZY, et al. (2026) LncRNA H19 drives atherosclerosis progression via the miR-let-7a/ITGB3 axis. *Frontiers in physiology*, 17, 1801950.

Wu Y, et al. (2026) Rosuvastatin protects against oxLDL-induced endothelial cell oxidative stress and attenuates atherosclerotic plaque formation in ApoE^{-/-} mice through the NF- κ B pathway. *PloS one*, 21(2), e0339967.

Shen Q, et al. (2026) Orphan Nuclear Receptor NR4A1 Promotes Proliferation and Osteogenic Differentiation of Valvular Interstitial Cells through Activation of CCND2. *International journal of biological sciences*, 22(6), 3174.

Wang Y, et al. (2026) Galectin7 attenuates abdominal aortic aneurysm progression by resisting disturbed flow induced endothelial-to-mesenchymal transition. *Theranostics*, 16(7), 3665.

Chansakaow C, et al. (2026) Links between Air Pollution and Aortic Diseases: Current Evidence for Future Prevention and Treatment. *International journal of medical sciences*, 23(2), 730.

Meyer-Lindemann U, et al. (2026) Exercise Reverses Mental Stress-Induced Vascular Inflammation and Builds Stress Resilience. *JACC. Basic to translational science*, 11(5), 101536.

Wang M, et al. (2026) Extracorporeal cardiac shock wave stimulation enhances the therapeutic efficacy of intravenously delivered endothelial colony-forming cells via PI3K/AKT signaling in a rat myocardial infarction model. *Stem cell research & therapy*, 17(1).

Fang W, et al. (2026) Platelet-rich plasma-derived extracellular vesicles delivered niraparib for ultrasound imaging and atherosclerosis treatment. *Journal of nanobiotechnology*, 24(1).

Wang Z, et al. (2026) Extension of Atherosclerosis ApoE^{-/-} Mouse-a Model of Chronic Myocardial Ischemia and Evaluation Method. *Journal of cardiovascular translational research*.

Lin X, et al. (2026) Apolipoprotein E Deficiency Attenuates Neuroinflammatory Responses and Demyelination in Experimental Autoimmune Encephalomyelitis. *Molecular neurobiology*, 63(1).

Perie L, et al. (2026) Deletion of the Mouse Homolog of Human FHR1 (muFHR1) Alleviates Atherosclerosis in ApoE^{-/-} mice. *International journal of medical sciences*, 23(2), 585.

Ke K, et al. (2026) GFPT2 promotes macrophage dysfunction in atherosclerosis via ACADL glycosylation-dependent suppression of ACADL and Arg1. *Cellular and molecular life sciences : CMLS*, 83(1).

Xie G, et al. (2026) Jiangzhi ruanmai recipe alleviates atherosclerosis in ApoE^{-/-} mice by regulating cholesterol metabolism involved in gut microbiota remodeling. *Frontiers in cardiovascular medicine*, 13, 1834983.

Budden T, et al. (2026) Tissue-specific fibroblast lipid cues impose the rate of epithelial cancer invasion. *Nature metabolism*, 8(5), 1149.

Solomon CU, et al. (2026) Integrative functional genomics analysis identifies pleiotropic genes for vascular diseases. *Nature communications*, 17(1).