

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

B6;129-Apob^{tm2Sgy} Apoe/J

RRID:IMSR_JAX:002879

Type: Organism

Proper Citation

RRID:IMSR_JAX:002879

Organism Information

URL: <https://www.jax.org/strain/002879>

Proper Citation: RRID:IMSR_JAX:002879

Description: Mus musculus with name B6;129-Apob^{tm2Sgy} Apoe/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: apolipoprotein E|apolipoprotein B; mutant stock: Apoe|Apob

Affected Gene: apolipoprotein E|apolipoprotein B

Genomic Alteration: targeted mutation 1; University of North Carolina|targeted mutation 2; Stephen G Young

Catalog Number: JAX:002879

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: B6;129-Apob^{tm2Sgy} Apoe/J

Record Creation Time: 20250513T053635+0000

Record Last Update: 20260808T050837+0000

Ratings and Alerts

No rating or validation information has been found for B6;129-Apob^{tm2Sgy} Apoe/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 112 mentions in open access literature.

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

Da Fonseca Ferreira A, et al. (2023) HIV Promotes Atherosclerosis via Circulating Extracellular Vesicle MicroRNAs. International journal of molecular sciences, 24(8).

Wang J, et al. (2023) Beta1-receptor blockade attenuates atherosclerosis progression following traumatic brain injury in apolipoprotein E deficient mice. PloS one, 18(5), e0285499.

Li Q, et al. (2023) Re-Visiting Antioxidant Therapy in Murine Advanced Atherosclerosis with Brussels Chicory, a Typical Vegetable in Mediterranean Diets. Nutrients, 15(4).

Ma H, et al. (2023) Butyrate suppresses atherosclerotic inflammation by regulating macrophages and polarization via GPR43/HDAC-miRNAs axis in ApoE^{-/-} mice. PloS one, 18(3), e0282685.

Yu H, et al. (2023) ANGPTL8 deletion attenuates abdominal aortic aneurysm formation in ApoE^{-/-} mice. Clinical science (London, England : 1979), 137(12), 979.

Terasaki M, et al. (2023) SMTP-44D Inhibits Atherosclerotic Plaque Formation in Apolipoprotein-E Null Mice Partly by Suppressing the AGEs-RAGE Axis. International journal of molecular sciences, 24(7).

Cai YY, et al. (2022) Integrated metagenomics identifies a crucial role for trimethylamine-producing Lachnoclostridium in promoting atherosclerosis. NPJ biofilms and microbiomes, 8(1), 11.

Yang J, et al. (2022) Pitavastatin activates mitophagy to protect EPC proliferation through a calcium-dependent CAMK1-PINK1 pathway in atherosclerotic mice. Communications biology, 5(1), 124.

Huang Y, et al. (2022) Dosage of Dual-Protein Nutrition Differentially Impacts the Formation of Atherosclerosis in ApoE^{-/-} Mice. Nutrients, 14(4).

Rom O, et al. (2022) Induction of glutathione biosynthesis by glycine-based treatment mitigates atherosclerosis. Redox biology, 52, 102313.

Katsuki S, et al. (2022) Nanoparticle-Mediated Delivery of Pitavastatin to Monocytes/Macrophages Inhibits Angiotensin II-Induced Abdominal Aortic Aneurysm Formation in Apoe^{-/-} Mice. *Journal of atherosclerosis and thrombosis*, 29(1), 111.

Collins HL, et al. (2022) Choline Supplementation Does Not Promote Atherosclerosis in CETP-Expressing Male Apolipoprotein E Knockout Mice. *Nutrients*, 14(8).

Ma X, et al. (2022) Early Assessment of Atherosclerotic Lesions and Vulnerable Plaques in vivo by Targeting Apoptotic Macrophages with AV Nanobubbles. *International journal of nanomedicine*, 17, 4933.

Millar CL, et al. (2022) Gut microbiome-derived glycine lipids are diet-dependent modulators of hepatic injury and atherosclerosis. *Journal of lipid research*, 63(4), 100192.

Hua Y, et al. (2022) Changes to Urinary Proteome in High-Fat-Diet ApoE^{-/-} Mice. *Biomolecules*, 12(11).

Li N, et al. (2022) Upregulation of Neogenin-1 by a CREB1-BAF47 Complex in Vascular Endothelial Cells is Implicated in Atherogenesis. *Frontiers in cell and developmental biology*, 10, 803029.

Tang Y, et al. (2022) YB1 dephosphorylation attenuates atherosclerosis by promoting CCL2 mRNA decay. *Frontiers in cardiovascular medicine*, 9, 945557.

Zhou Y, et al. (2022) Redox-responsive polyurethane-polyurea nanoparticles targeting to aortic endothelium and atherosclerosis. *iScience*, 25(11), 105390.

May LT, et al. (2022) Translating atherosclerosis research from bench to bedside: navigating the barriers for effective preclinical drug discovery. *Clinical science (London, England : 1979)*, 136(23), 1731.

Stanton KM, et al. (2022) The Effects of Exercise on Plaque Volume and Composition in a Mouse Model of Early and Late Life Atherosclerosis. *Frontiers in cardiovascular medicine*, 9, 837371.