

Resource Summary Report

Generated by ASWG on Aug 10, 2026

FVB.129P2-Abcb4^{tm1Bor}/J

RRID:IMSR_JAX:002539

Type: Organism

Proper Citation

RRID:IMSR_JAX:002539

Organism Information

URL: <https://www.jax.org/strain/002539>

Proper Citation: RRID:IMSR_JAX:002539

Description: Mus musculus with name FVB.129P2-Abcb4^{tm1Bor}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: ATP-binding cassette; sub-family B member 4; mutant strain|congenic strain: Abcb4

Affected Gene: ATP-binding cassette; sub-family B member 4

Genomic Alteration: targeted mutation 1; Piet Borst

Catalog Number: JAX:002539

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: FVB.129P2-Abcb4^{tm1Bor}/J

Record Creation Time: 20250513T053633+0000

Record Last Update: 20260808T050834+0000

Ratings and Alerts

No rating or validation information has been found for FVB.129P2-Abcb4^{tm1Bor}/J.

No alerts have been found for FVB.129P2-Abcb4^{tm1Bor}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 38 mentions in open access literature.

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

Al Jawazneh A, et al. (2026) Bile acid retention in efferocytic macrophages shapes their inflammatory status during cholangitis. *The Journal of experimental medicine*, 223(7).

Schmithals C, et al. (2024) Tumour-specific activation of a tumour-blood transport improves the diagnostic accuracy of blood tumour markers in mice. *EBioMedicine*, 105, 105178.

Li R, et al. (2023) Interaction between dual specificity phosphatase-1 and cullin-1 attenuates alcohol-related liver disease by restoring p62-mediated mitophagy. *International journal of biological sciences*, 19(6), 1831.

Banerjee P, et al. (2023) Conjugated Bile Acids Promote Lymphangiogenesis by Modulation of the Reactive Oxygen Species-p90RSK-Vascular Endothelial Growth Factor Receptor 3 Pathway. *Cells*, 12(4).

Gui W, et al. (2023) Colitis ameliorates cholestatic liver disease via suppression of bile acid synthesis. *Nature communications*, 14(1), 3304.

Martínez-García J, et al. (2022) A minimal bile salt excretory pump promoter allows bile acid-driven physiological regulation of transgene expression from a gene therapy vector. *Cell & bioscience*, 12(1), 79.

O'Brien A, et al. (2022) FGF1 Signaling Modulates Biliary Injury and Liver Fibrosis in the *Mdr2*^{-/-} Mouse Model of Primary Sclerosing Cholangitis. *Hepatology communications*, 6(7), 1574.

Fuchs CD, et al. (2022) Tetrahydroxylated bile acids improve cholestatic liver and bile duct injury in the *Mdr2*^{-/-} mouse model of sclerosing cholangitis via immunomodulatory effects. *Hepatology communications*, 6(9), 2368.

Owen A, et al. (2022) PDGFR⁺/Sca-1 Sorted Mesenchymal Stromal Cells Reduce Liver Injury in Murine Models of Hepatic Ischemia-Reperfusion Injury. *Stem cells (Dayton, Ohio)*, 40(11), 1056.

Liu Y, et al. (2022) Deep learning multi-organ segmentation for whole mouse cryo-images including a comparison of 2D and 3D deep networks. *Scientific reports*, 12(1), 15161.

Hu Y, et al. (2022) Gypenosides ameliorate ductular reaction and liver fibrosis via inhibition of hedgehog signaling. *Frontiers in pharmacology*, 13, 1033103.

Habenicht LKL, et al. (2022) The C1q-ApoE complex: A new hallmark pathology of viral hepatitis and nonalcoholic fatty liver disease. *Frontiers in immunology*, 13, 970938.

Gonzalez-Sanchez E, et al. (2021) Cholangiopathy aggravation is caused by VDR ablation and alleviated by VDR-independent vitamin D signaling in ABCB4 knockout mice. *Biochimica et biophysica acta. Molecular basis of disease*, 1867(4), 166067.

Li J, et al. (2021) Limb expression 1-like (LIX1L) protein promotes cholestatic liver injury by regulating bile acid metabolism. *Journal of hepatology*, 75(2), 400.

Umeshappa CS, et al. (2021) Liver-specific T regulatory type-1 cells program local neutrophils to suppress hepatic autoimmunity via CRAMP. *Cell reports*, 34(13), 108919.

Grand M, et al. (2020) Hepatic Inflammation Confers Protective Immunity Against Liver Stages of Malaria Parasite. *Frontiers in immunology*, 11, 585502.

Kennedy L, et al. (2020) Biliary damage and liver fibrosis are ameliorated in a novel mouse model lacking I-histidine decarboxylase/histamine signaling. *Laboratory investigation; a journal of technical methods and pathology*, 100(6), 837.

Meadows V, et al. (2019) Downregulation of hepatic stem cell factor by Vivo-Morpholino treatment inhibits mast cell migration and decreases biliary damage/senescence and liver fibrosis in *Mdr2*^{-/-} mice. *Biochimica et biophysica acta. Molecular basis of disease*, 1865(12), 165557.

Zhou T, et al. (2019) Knockdown of vimentin reduces mesenchymal phenotype of cholangiocytes in the *Mdr2*^{-/-} mouse model of primary sclerosing cholangitis (PSC). *EBioMedicine*, 48, 130.

Nishio T, et al. (2019) Activated hepatic stellate cells and portal fibroblasts contribute to cholestatic liver fibrosis in *MDR2* knockout mice. *Journal of hepatology*, 71(3), 573.