Resource Summary Report

Generated by RRID on Jul 30, 2026

B6;129-Mavs^{tm1Zjc}/J

RRID:IMSR_JAX:008634
Type: Organism

Proper Citation

RRID:IMSR_JAX:008634

Organism Information

URL: https://www.jax.org/strain/008634

Proper Citation: RRID:IMSR_JAX:008634

Description: Mus musculus with name B6;129-Mavs^{tm1Zjc}/J from IMSR.

Species: Mus musculus

Synonyms: B6;129-D430028G21Rik/J

Notes: gene symbol note: mitochondrial antiviral signaling protein; mutant stock: Mavs

Affected Gene: mitochondrial antiviral signaling protein

Genomic Alteration: targeted mutation 1; Zhijian J Chen

Catalog Number: JAX:008634

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129-Mavs^{tm1Zjc}/J

Record Creation Time: 20250513T053710+0000

Record Last Update: 20260725T044421+0000

Ratings and Alerts

No rating or validation information has been found for B6;129-Mavs^{tm1Zjc}/J.

No alerts have been found for B6;129-Mavs^{tm1Zjc}/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 18 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Soliman N, et al. (2025) Targeting Intracellular Innate RNA-Sensing Systems Overcomes Resistance to CAR T-cell Therapy in Solid Tumors. Cancer research, 85(14), 2679.

Göttert S, et al. (2025) The microbial metabolite desaminotyrosine protects against graft-versus-host disease via mTORC1 and STING-dependent intestinal regeneration. Nature communications, 16(1), 9282.

Escoubas CC, et al. (2024) Type-I-interferon-responsive microglia shape cortical development and behavior. Cell.

Wang X, et al. (2023) Driving axon regeneration by orchestrating neuronal and non-neuronal innate immune responses via the IFN?-cGAS-STING axis. Neuron, 111(2), 236.

Lei Y, et al. (2023) Cooperative sensing of mitochondrial DNA by ZBP1 and cGAS promotes cardiotoxicity. Cell, 186(14), 3013.

Golden JW, et al. (2022) The host inflammatory response contributes to disease severity in Crimean-Congo hemorrhagic fever virus infected mice. PLoS pathogens, 18(5), e1010485.

Kim TH, et al. (2021) Monocytes Contribute to IFN-? Production via the MyD88-Dependent Pathway and Cytotoxic T-Cell Responses against Mucosal Respiratory Syncytial Virus Infection. Immune network, 21(4), e27.

Koerner J, et al. (2021) PLGA-particle vaccine carrying TLR3/RIG-I ligand Riboxxim synergizes with immune checkpoint blockade for effective anti-cancer immunotherapy. Nature communications, 12(1), 2935.

de Mingo Pulido Á, et al. (2021) The inhibitory receptor TIM-3 limits activation of the cGAS-STING pathway in intra-tumoral dendritic cells by suppressing extracellular DNA uptake. Immunity, 54(6), 1154.

Pandey S, et al. (2020) Pairwise Stimulations of Pathogen-Sensing Pathways Predict Immune Responses to Multi-adjuvant Combinations. Cell systems, 11(5), 495.

Nelson J, et al. (2020) Impact of mRNA chemistry and manufacturing process on innate immune activation. Science advances, 6(26), eaaz6893.

Luo Z, et al. (2020) Novel insights into stress-induced susceptibility to influenza: corticosterone impacts interferon-? responses by Mfn2-mediated ubiquitin degradation of MAVS. Signal transduction and targeted therapy, 5(1), 202.

Adiliaghdam F, et al. (2020) A Requirement for Argonaute 4 in Mammalian Antiviral Defense. Cell reports, 30(6), 1690.

Kim TH, et al. (2019) Plasmacytoid Dendritic Cells Contribute to the Production of IFN-? via TLR7-MyD88-Dependent Pathway and CTL Priming during Respiratory Syncytial Virus Infection. Viruses, 11(8).

Zheng X, et al. (2019) Effect of Forsythiaside A on the RLRs Signaling Pathway in the Lungs of Mice Infected with the Influenza A Virus FM1 Strain. Molecules (Basel, Switzerland), 24(23).

Linehan MM, et al. (2018) A minimal RNA ligand for potent RIG-I activation in living mice. Science advances, 4(2), e1701854.

Ding S, et al. (2018) Rotavirus VP3 targets MAVS for degradation to inhibit type III interferon expression in intestinal epithelial cells. eLife, 7.

Jehl SP, et al. (2012) IFN? inhibits the cytosolic replication of Shigella flexneri via the cytoplasmic RNA sensor RIG-I. PLoS pathogens, 8(8), e1002809.