

Resource Summary Report

Generated by [RRID](#) on Jul 29, 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.

Götttert 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- γ -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- γ 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 Riboxim 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- γ 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- γ 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 γ inhibits the cytosolic replication of *Shigella flexneri* via the cytoplasmic RNA sensor RIG-I. *PLoS pathogens*, 8(8), e1002809.