

Resource Summary Report

Generated by T1D on Sep 22, 2026

C57BL/6N-Gsdmd^{em4Fcw}/J

RRID:IMSR_JAX:032410

Type: Organism

Proper Citation

RRID:IMSR_JAX:032410

Organism Information

URL: <https://www.jax.org/strain/032410>

Proper Citation: RRID:IMSR_JAX:032410

Description: Mus musculus with name C57BL/6N-Gsdmd^{em4Fcw}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: gasdermin D; coisogenic strain|mutant strain: Gsdmd

Affected Gene: gasdermin D

Genomic Alteration: endonuclease-mediated mutation 4; Fengchao Wang

Catalog Number: JAX:032410

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6N-Gsdmd^{em4Fcw}/J

Record Creation Time: 20250513T053828+0000

Record Last Update: 20260919T055012+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6N-Gsdmd^{em4Fcw}/J.

No alerts have been found for C57BL/6N-Gsdmd^{em4Fcw}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 50 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Silva-Llanes I, et al. (2026) GASDERMIN D-mediated pyroptosis as a therapeutic target in TAU-dependent frontotemporal dementia mouse model. *Journal of biomedical science*, 33(1), 6.

Lin SC, et al. (2026) MyD88 signaling in myeloid cells induces gastrointestinal tract injury and systemic inflammation after West Nile virus infection. *Cell reports*, 45(1), 116852.

Shan M, et al. (2025) Itaconate promotes inflammatory responses in tissue-resident alveolar macrophages and exacerbates acute lung injury. *Cell metabolism*, 37(8), 1750.

Chan FHM, et al. (2025) Plasticity of cell death pathways ensures GSDMD activation during *Yersinia pseudotuberculosis* infection. *Cell reports*, 44(1), 115216.

O'Keefe ME, et al. (2025) Restraint of inflammasome-driven cytokine responses through the mRNA stability protein TTP. *Cell reports*, 44(3), 115340.

Yeap HW, et al. (2025) A bacterial network of T3SS effectors counteracts host pro-inflammatory responses and cell death to promote infection. *The EMBO journal*, 44(9), 2424.

Jena KK, et al. (2024) Type III interferons induce pyroptosis in gut epithelial cells and impair mucosal repair. *Cell*, 187(26), 7533.

Wang Y, et al. (2024) A pan-family screen of nuclear receptors in immunocytes reveals ligand-dependent inflammasome control. *Immunity*, 57(12), 2737.

Traughber CA, et al. (2023) Myeloid-cell-specific role of Gasdermin D in promoting lung cancer progression in mice. *iScience*, 26(2), 106076.

Su W, et al. (2023) The Absence of Gasdermin D Reduces Nuclear Autophagy in a Cecal Ligation and Puncture-Induced Sepsis-Associated Encephalopathy Mouse Model. *Brain sciences*, 13(3).

Fang Z, et al. (2023) Gasdermin D affects aortic vascular smooth muscle cell pyroptosis and Ang II-induced vascular remodeling. *Heliyon*, 9(6), e16619.

Liao Y, et al. (2023) The Ras GTPase-activating-like protein IQGAP1 bridges Gasdermin D to the ESCRT system to promote IL-1?? release via exosomes. *The EMBO journal*, 42(1), e110780.

Miao N, et al. (2023) Oxidized mitochondrial DNA induces gasdermin D oligomerization in systemic lupus erythematosus. *Nature communications*, 14(1), 872.

den Hartigh AB, et al. (2023) Muscimol inhibits plasma membrane rupture and ninjurin-1 oligomerization during pyroptosis. *Communications biology*, 6(1), 1010.

Wang W, et al. (2022) Mobilizing phospholipids on tumor plasma membrane implicates phosphatidylserine externalization blockade for cancer immunotherapy. *Cell reports*, 41(5), 111582.

Wang K, et al. (2022) Multi-Omics Analysis Reveals the Protection of Gasdermin D in Concanavalin A-Induced Autoimmune Hepatitis. *Microbiology spectrum*, 10(5), e0171722.

Zhang ZH, et al. (2022) Inhibition of GSDMD Activates Poly(ADP-ribosyl)ation and Promotes Myocardial Ischemia-Reperfusion Injury. *Oxidative medicine and cellular longevity*, 2022, 1115749.

Wu YH, et al. (2022) Caspase-8 inactivation drives autophagy-dependent inflammasome activation in myeloid cells. *Science advances*, 8(45), eabn9912.

Zhang Y, et al. (2022) Inhibition of PFKFB Preserves Intestinal Barrier Function in Sepsis by Inhibiting NLRP3/GSDMD. *Oxidative medicine and cellular longevity*, 2022, 8704016.

Feng S, et al. (2022) Intracellular bacteriolysis contributes to pathogenicity of *Staphylococcus aureus* by exacerbating AIM2-mediated inflammation and necroptosis. *Virulence*, 13(1), 1684.