

Resource Summary Report

Generated by [RRID](#) on Jul 30, 2026

[B6.129S4-Ifng^{tm3.1Lky/J}](#)

RRID:IMSR_JAX:017581

Type: Organism

Proper Citation

RRID:IMSR_JAX:017581

Organism Information

URL: <https://www.jax.org/strain/017581>

Proper Citation: RRID:IMSR_JAX:017581

Description: Mus musculus with name B6.129S4-Ifng^{tm3.1Lky/J} from IMSR.

Species: Mus musculus

Synonyms: B6.129S4(B6)-Ifng/J

Notes: gene symbol note: interferon gamma|; mutant strain|congenic strain: Ifng|

Affected Gene: interferon gamma|

Genomic Alteration: targeted mutation 3.1; Richard M Locksley

Catalog Number: JAX:017581

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S4-Ifng^{tm3.1Lky/J}

Record Creation Time: 20250513T053733+0000

Record Last Update: 20260725T044441+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S4-Ifng^{tm3.1Lky/J}.

No alerts have been found for B6.129S4-Ifng^{tm3.1Lky/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Eislmayr KD, et al. (2025) Macrophages orchestrate elimination of *Shigella* from the intestinal epithelial cell niche via TLR-induced IL-12 and IFN- γ . *Cell host & microbe*, 33(9), 1535.

Westfall S, et al. (2025) A type 1 immune-stromal cell network mediates disease tolerance against intestinal infection. *Cell*, 188(12), 3135.

Kim DV, et al. (2025) *E. coli*-activated cellular circuit restrains intestinal inflammatory microbiota-specific T cells and protects against colitis. *Cell reports*, 44(10), 116332.

Haniuda K, et al. (2025) Mucosal viral infection elicits long-lived IgA responses via type 1 follicular helper T cells. *Cell*, 188(24), 6774.

Liang Y, et al. (2024) Lack of the IFN- γ signal leads to lethal *Orientia tsutsugamushi* infection in mice with skin eschar lesions. *PLoS pathogens*, 20(5), e1012020.

Mitchell AE, et al. (2024) Age-dependent NK cell and interferon-gamma deficits contribute to severe pertussis in infant mice. *Journal of leukocyte biology*.

Edwards CL, et al. (2023) IL-10-producing Th1 cells possess a distinct molecular signature in malaria. *The Journal of clinical investigation*, 133(1).

Chen X, et al. (2023) The lactate dehydrogenase (LDH) isoenzyme spectrum enables optimally controlling T cell glycolysis and differentiation. *Science advances*, 9(12), eadd9554.

Padilla AM, et al. (2023) Delayed Activation of T Cells at the Site of Infection Facilitates the Establishment of *Trypanosoma cruzi* in Both Naive and Immune Hosts. *mSphere*, 8(1), e0060122.

Gungabeesoon J, et al. (2023) A neutrophil response linked to tumor control in immunotherapy. *Cell*, 186(7), 1448.

Cai X, et al. (2023) Lactate activates the mitochondrial electron transport chain independently of its metabolism. *Molecular cell*, 83(21), 3904.

Chora ÂF, et al. (2023) Interplay between liver and blood stages of *Plasmodium* infection dictates malaria severity via ?? T cells and IL-17-promoted stress erythropoiesis. *Immunity*, 56(3), 592.

Harbour JC, et al. (2023) T helper 1 effector memory CD4⁺ T cells protect the skin from poxvirus infection. *Cell reports*, 42(5), 112407.

Liu Q, et al. (2022) IL-1 β -activated mTORC2 promotes accumulation of IFN- γ ⁺ T cells by upregulating CXCR3 to restrict hepatic fibrosis. *Cell death & disease*, 13(4), 289.

Moore C, et al. (2022) Exogenous signaling repairs defective T cell signaling inside the tumor microenvironment for better immunity. *JCI insight*, 7(17).

Wang C, et al. (2021) Reprogramming NK cells and macrophages via combined antibody and cytokine therapy primes tumors for elimination by checkpoint blockade. *Cell reports*, 37(8), 110021.

Montes de Oca M, et al. (2020) IL-27 signalling regulates glycolysis in Th1 cells to limit immunopathology during infection. *PLoS pathogens*, 16(10), e1008994.

Adams NM, et al. (2019) Cytomegalovirus Infection Drives Avidity Selection of Natural Killer Cells. *Immunity*, 50(6), 1381.

Koyama M, et al. (2019) MHC Class II Antigen Presentation by the Intestinal Epithelium Initiates Graft-versus-Host Disease and Is Influenced by the Microbiota. *Immunity*, 51(5), 885.

Tan L, et al. (2019) Single-Cell Transcriptomics Identifies the Adaptation of Scart1⁺ V β 6⁺ T Cells to Skin Residency as Activated Effector Cells. *Cell reports*, 27(12), 3657.