

Resource Summary Report

Generated by [NIF](#) on Sep 9, 2026

B6.129S7-II1r1^{tm1Imx}/J

RRID:IMSR_JAX:003245

Type: Organism

Proper Citation

RRID:IMSR_JAX:003245

Organism Information

URL: <https://www.jax.org/strain/003245>

Proper Citation: RRID:IMSR_JAX:003245

Description: Mus musculus with name B6.129S7-II1r1^{tm1Imx}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: interleukin 1 receptor; type I; mutant strain|congenic strain: II1r1

Affected Gene: interleukin 1 receptor; type I

Genomic Alteration: targeted mutation 1; Immunex Research and Development Corporation

Catalog Number: JAX:003245

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S7-II1r1^{tm1Imx}/J

Record Creation Time: 20250513T053638+0000

Record Last Update: 20260905T044418+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S7-II1r1^{tm1Imx}/J.

No alerts have been found for B6.129S7-II1r1^{tm1Imx}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 101 mentions in open access literature.

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

Miyamoto T, et al. (2026) Chemotherapy induces an IL1 β -dependent neutrophil recruitment and activation that promote chemoresistance in metastatic ovarian cancer. *Journal for immunotherapy of cancer*, 14(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.

Dhariwala MO, et al. (2026) Commensal-myeloid crosstalk in neonatal skin regulates interleukin-1 signaling and cutaneous type 17 inflammation. *Immunity*, 59(2), 403.

Mariancini A, et al. (2026) IL1R2 Deficiency Unleashes Neutrophil-Mediated Antitumor Potential in Sarcoma. *Cancer immunology research*, 14(5), 751.

Zhang S, et al. (2025) Nuclear adenine activates hnRNPA2B1 to enhance antibacterial innate immunity. *Cell metabolism*, 37(2), 413.

Hoffmann JP, et al. (2024) Vaccine-elicited IL-1R signaling results in Th17 TRM-mediated immunity. *Communications biology*, 7(1), 433.

Collins A, et al. (2024) Maternal inflammation regulates fetal emergency myelopoiesis. *Cell*, 187(6), 1402.

Mills KAM, et al. (2024) GM-CSF-mediated epithelial-immune cell crosstalk orchestrates pulmonary immunity to *Aspergillus fumigatus*. *bioRxiv : the preprint server for biology*.

Muñoz-Wolf N, et al. (2023) Non-canonical inflammasome activation mediates the adjuvanticity of nanoparticles. *Cell reports. Medicine*, 4(1), 100899.

Nasiri E, et al. (2023) IL18 Receptor Signaling Inhibits Intratumoral CD8⁺ T-Cell Migration in a Murine Pancreatic Cancer Model. *Cells*, 12(3).

Depew CE, et al. (2023) Optimal generation of hepatic tissue-resident memory CD4 T cells requires IL-1 and IL-2. *Proceedings of the National Academy of Sciences of the United States of America*, 120(16), e2214699120.

Aggarwal SD, et al. (2023) BlpC-mediated selfish program leads to rapid loss of *Streptococcus pneumoniae* clonal diversity during infection. *Cell host & microbe*, 31(1), 124.

Tomlinson KL, et al. (2023) Ketogenesis promotes tolerance to *Pseudomonas aeruginosa* pulmonary infection. *Cell metabolism*, 35(10), 1767.

Lutz V, et al. (2023) IL18 Receptor Signaling Regulates Tumor-Reactive CD8⁺ T-cell Exhaustion via Activation of the IL2/STAT5/mTOR Pathway in a Pancreatic Cancer Model. *Cancer immunology research*, 11(4), 421.

Gao T, et al. (2022) Myeloid cell TBK1 restricts inflammatory responses. *Proceedings of the National Academy of Sciences of the United States of America*, 119(4).

Eislmayr K, et al. (2022) Nonredundancy of IL-1 β and IL-1 γ is defined by distinct regulation of tissues orchestrating resistance versus tolerance to infection. *Science advances*, 8(9), eabj7293.

Mantsounga CS, et al. (2022) Macrophage IL-1 β promotes arteriogenesis by autocrine STAT3- and NF- κ B-mediated transcription of pro-angiogenic VEGF-A. *Cell reports*, 38(5), 110309.

Gong Z, et al. (2022) Lipid-laden lung mesenchymal cells foster breast cancer metastasis via metabolic reprogramming of tumor cells and natural killer cells. *Cell metabolism*, 34(12), 1960.

Nicolas AM, et al. (2022) Inflammatory fibroblasts mediate resistance to neoadjuvant therapy in rectal cancer. *Cancer cell*, 40(2), 168.

Rommel MGE, et al. (2022) Influenza A virus infection instructs hematopoiesis to megakaryocyte-lineage output. *Cell reports*, 41(1), 111447.