

Resource Summary Report

Generated by [NIF](#) on Sep 6, 2026

B6.129(Cg)-Il1r1^{tm1.1Rbl}/J

RRID:IMSR_JAX:028398

Type: Organism

Proper Citation

RRID:IMSR_JAX:028398

Organism Information

URL: <https://www.jax.org/strain/028398>

Proper Citation: RRID:IMSR_JAX:028398

Description: Mus musculus with name B6.129(Cg)-Il1r1^{tm1.1Rbl}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: interleukin 1 receptor; type I; mutant strain|congenic strain: Il1r1

Affected Gene: interleukin 1 receptor; type I

Genomic Alteration: targeted mutation 1.1; Randy D Blakely

Catalog Number: JAX:028398

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129(Cg)-Il1r1^{tm1.1Rbl}/J

Record Creation Time: 20250513T053804+0000

Record Last Update: 20260905T044541+0000

Ratings and Alerts

No rating or validation information has been found for B6.129(Cg)-Il1r1^{tm1.1Rbl}/J.

No alerts have been found for B6.129(Cg)-Il1r1^{tm1.1Rbl}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

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

Yang L, et al. (2026) IL-1R1-positive dorsal raphe neurons drive self-imposed social withdrawal in sickness. *Cell*, 189(1), 272.

Luan P, et al. (2026) A reciprocal glial circuit calibrates injury information and governs the tissue response balance. *Neuron*.

England FJ, et al. (2025) Sustained NF- κ B activation allows mutant alveolar stem cells to co-opt a regeneration program for tumor initiation. *Cell stem cell*, 32(3), 375.

Peng F, et al. (2025) Multimodal spatial-omics reveal co-evolution of alveolar progenitors and proinflammatory niches in progression of lung precursor lesions. *Cancer cell*.

Sharma D, et al. (2025) A myeloid Tet2-IL-1 β axis modulates intestinal inflammation by restricting catecholaminergic stimulation of enterochromaffin cell differentiation. *Immunity*, 58(11), 2785.

Bartosiak JT, et al. (2025) Lipopolysaccharide-induced cytokine signaling activates a temporal innate defense program and represses pancreatic β -cell identity. *The Journal of biological chemistry*, 301(12), 110811.

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

Xia J, et al. (2024) Interleukin-1 β modulates lymphoid differentiation of Flt3-positive multipotent progenitors after transplantation. *Cell reports*, 43(11), 114890.

Wang Y, et al. (2023) $\gamma\delta$ T cell-intrinsic IL-1R promotes survival during *Staphylococcus aureus* bacteremia. *Frontiers in immunology*, 14, 1171934.

Li X, et al. (2022) Maladaptive innate immune training of myelopoiesis links inflammatory comorbidities. *Cell*, 185(10), 1709.

Merana GR, et al. (2022) Intestinal inflammation alters the antigen-specific immune response to a skin commensal. *Cell reports*, 39(9), 110891.

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

Costa FRC, et al. (2021) NLRP1 acts as a negative regulator of Th17 cell programming in mice and humans with autoimmune diabetes. *Cell reports*, 35(8), 109176.

Liu X, et al. (2020) Legionella-Infected Macrophages Engage the Alveolar Epithelium to Metabolically Reprogram Myeloid Cells and Promote Antibacterial Inflammation. *Cell host & microbe*, 28(5), 683.

Choi J, et al. (2020) Inflammatory Signals Induce AT2 Cell-Derived Damage-Associated Transient Progenitors that Mediate Alveolar Regeneration. *Cell stem cell*, 27(3), 366.