

Resource Summary Report

Generated by [kravitz2](#) on Aug 25, 2026

C;129S4-Rag2^{tm1.1Flv} Il2rg/J

RRID:IMSR_JAX:014593

Type: Organism

Proper Citation

RRID:IMSR_JAX:014593

Organism Information

URL: <https://www.jax.org/strain/014593>

Proper Citation: RRID:IMSR_JAX:014593

Description: Mus musculus with name C;129S4-Rag2^{tm1.1Flv} Il2rg/J from IMSR.

Species: Mus musculus

Synonyms: C;129S4-Rag2Il2rg/J. BRG

Notes: gene symbol note: recombination activating gene 2|interleukin 2 receptor; gamma chain; mutant stock: Rag2|Il2rg

Affected Gene: recombination activating gene 2|interleukin 2 receptor; gamma chain

Genomic Alteration: targeted mutation 1.1; Richard A Flavell

Catalog Number: JAX:014593

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C;129S4-Rag2^{tm1.1Flv} Il2rg/J

Record Creation Time: 20250513T053728+0000

Record Last Update: 20260815T050643+0000

Ratings and Alerts

No rating or validation information has been found for C;129S4-Rag2^{tm1.1Flv} Il2rg/J.

No alerts have been found for C;129S4-Rag2^{tm1.1Flv} Il2rg/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 70 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

Zwick M, et al. (2026) FLT3-ITD Induces CMTM6 and Enhances Immune Escape in Acute Myeloid Leukemia. *Cancer research*, 86(2), 367.

Cain J, et al. (2026) Melatonin suppresses ILC2-driven airway hyperreactivity via glutathione-dependent metabolic reprogramming. *Frontiers in immunology*, 17, 1845654.

Duhan V, et al. (2025) FcR γ -Dependent NK Cell Licensing through CD244 Promotes Antitumor Immunity. *Cancer immunology research*, 13(12), 2075.

Braun LM, et al. (2025) Adiponectin reduces immune checkpoint inhibitor-induced inflammation without blocking anti-tumor immunity. *Cancer cell*, 43(2), 269.

Mujal AM, et al. (2025) Splenic TNF- α signaling potentiates the innate-to-adaptive transition of antiviral NK cells. *Immunity*, 58(3), 585.

Burrows K, et al. (2025) A gut commensal protozoan determines respiratory disease outcomes by shaping pulmonary immunity. *Cell*, 188(2), 316.

Wang Y, et al. (2025) Bi-directional communication between intrinsic enteric neurons and ILC2s inhibits host defense against helminth infection. *Immunity*, 58(2), 465.

Garofalo S, et al. (2025) Platelets tune fear memory in mice. *Cell reports*, 44(2), 115261.

Li Z, et al. (2024) Isolation, expansion, and adoptive transfer of human ILC2s for the treatment of mice bearing liquid and solid tumors. *STAR protocols*, 5(3), 103096.

Li Z, et al. (2024) Therapeutic application of human type 2 innate lymphoid cells via induction of granzyme B-mediated tumor cell death. *Cell*, 187(3), 624.

Adem B, et al. (2024) Exosomes define a local and systemic communication network in healthy pancreas and pancreatic ductal adenocarcinoma. *Nature communications*, 15(1), 1496.

Prinz LF, et al. (2024) An anti-CD19/CTLA-4 switch improves efficacy and selectivity of CAR T cells targeting CD80/86-upregulated DLBCL. *Cell reports. Medicine*, 5(2), 101421.

Hurrell BP, et al. (2024) Piezo1 channels restrain ILC2s and regulate the development of airway hyperreactivity. *The Journal of experimental medicine*, 221(5).

Rodriguez-Marino N, et al. (2024) Dietary fiber promotes antigen presentation on intestinal epithelial cells and development of small intestinal CD4⁺CD8^{??}⁺ intraepithelial T cells. *Mucosal immunology*.

Elvira-Blázquez D, et al. (2024) YTHDC1 m6A-dependent and m6A-independent functions converge to preserve the DNA damage response. *The EMBO journal*, 43(16), 3494.

Purbey PK, et al. (2024) Opposing tumor-cell-intrinsic and -extrinsic roles of the IRF1 transcription factor in antitumor immunity. *Cell reports*, 43(6), 114289.

Ren G, et al. (2024) Decreased GATA3 levels cause changed mouse cutaneous innate lymphoid cell fate, facilitating hair follicle recycling. *Developmental cell*, 59(14), 1809.

Pedde AM, et al. (2024) Tissue-colonizing disseminated tumor cells secrete prostaglandin E2 to promote NK cell dysfunction and evade anti-metastatic immunity. *Cell reports*, 43(11), 114855.

Rao Z, et al. (2024) Alarmin-loaded extracellular lipid droplets induce airway neutrophil infiltration during type 2 inflammation. *Immunity*, 57(11), 2514.

Pichler AC, et al. (2023) TCR-independent CD137 (4-1BB) signaling promotes CD8⁺-exhausted T cell proliferation and terminal differentiation. *Immunity*, 56(7), 1631.