

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

B6.129S7-Rag1^{tm1Mom}/J

RRID:IMSR_JAX:002216

Type: Organism

Proper Citation

RRID:IMSR_JAX:002216

Organism Information

URL: <https://www.jax.org/strain/002216>

Proper Citation: RRID:IMSR_JAX:002216

Description: Mus musculus with name B6.129S7-Rag1^{tm1Mom}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: recombination activating 1; mutant strain|congenic strain: Rag1

Affected Gene: recombination activating 1

Genomic Alteration: targeted mutation 1; Peter Mombaerts

Catalog Number: JAX:002216

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S7-Rag1^{tm1Mom}/J

Record Creation Time: 20250513T053630+0000

Record Last Update: 20260808T050831+0000

Ratings and Alerts

- Used for genotyping by the Human Islet Research Network community. Contact(s): [Peter Buchwald](#) - Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for B6.129S7-Rag1^{tm1Mom}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 837 mentions in open access literature.

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

Pizzano M, et al. (2026) A transient receptor potential vanilloid 1-dependent corneal-trigeminal neuroinflammatory circuit promotes corneal neuropathy. *Experimental & molecular medicine*, 58(2), 605.

Halstead AM, et al. (2026) A New Model of Gastric Pre-neoplasia Induced by Aberrant ADAR1-mediated Double-stranded RNA Signaling. *Cellular and molecular gastroenterology and hepatology*, 20(3), 101673.

Sirohi K, et al. (2026) CBX7 functions as a methylation-dependent inducer of gene transcription and regulator of cytosolic signaling in lymphoid cells. *Science advances*, 12(7), eadj4926.

Wittling MC, et al. (2026) T-cell Priming by High-Avidity Neoantigens in Lymph Nodes Augments Adoptive Immunotherapy. *Cancer immunology research*, 14(3), 463.

Metwali A, et al. (2026) Helminth exposure influences Th17 plasticity, suppressing inflammatory and promoting regulatory activity by Th17 lineage cells. *Frontiers in immunology*, 17, 1767639.

Xu H, et al. (2026) RIG-I RNA agonist activates immunostimulatory macrophages to enhance checkpoint immunotherapy for glioblastoma. *bioRxiv : the preprint server for biology*.

Chen HH, et al. (2026) CD38 endows local antigen-specific Treg cells with stress resilience for control of compartmentalized CNS inflammation. *Nature immunology*, 27(3), 516.

Liu J, et al. (2026) Research Advances in Glanimal Models of Glaucoma: Exploring Multidimensional Mechanisms and Novel Therapeutic Strategies. *Pharmaceutics*, 18(2).

Zhao J, et al. (2026) RNA helicase DHX29 controls the translation of transcription factors involved in germinal center response and plasma cell differentiation in mice. *The EMBO journal*, 45(13), 4605.

Stahl S, et al. (2026) Aging of the adaptive immune system affects the gut microbiome and systemic levels of vitamin B6. *Microbiome*, 14(1).

Wittling MC, et al. (2026) Development of a murine tumor-infiltrating lymphocyte therapy model for cholangiocarcinoma. *Journal of immunology (Baltimore, Md. : 1950)*, 215(1).

Fadhel Alvarez A, et al. (2026) *Limosilactobacillus reuteri* alleviates proinflammatory T-cell-mediated liver injury and transcriptomic changes in immunocompromised mice. *Frontiers in immunology*, 17, 1713120.

Jiang H, et al. (2026) Bile acids enrichment fuel tumor aerobic glycolysis and immune evasion via stabilizing FXR-RAR?. *Frontiers in immunology*, 17, 1750358.

Liu B, et al. (2026) Indirect inhibition of the NLRP3-interleukin-1? axis contributes to the efficacy of JAK1 inhibitors in experimental colitis and human ulcerative colitis. *Nature communications*, 17(1).

Abdelsalam AM, et al. (2026) IFN?-producing iNKTs restrict a live-attenuated chlamydia oral vaccine in the large intestine. *Frontiers in immunology*, 17, 1851941.

Xu H, et al. (2026) Noncanonical NF-?B pathway driven inflammation across multiple cellular compartments identifies NIK as a therapeutic target for inflammatory bowel disease. *Frontiers in immunology*, 17, 1825442.

Ran S, et al. (2026) The MEK1/2-IRF4 axis fosters T follicular helper cell differentiation and antitumor humoral immune response. *Journal of translational medicine*, 24(1).

Mariani JN, et al. (2026) Charting the transition from in vitro gliogenesis to the in vivo maturation of human glial progenitor cells transplanted into the hypomyelinated mouse brain. *Nature communications*, 17(1).

Scott-Solomon E, et al. (2026) Stress-induced sympathetic hyperactivation drives hair follicle necrosis to trigger autoimmunity. *Cell*, 189(1), 252.

Humer D, et al. (2026) NR2F6 deletion revives CAR-T cell function and induces antigen-agnostic immune memory in solid tumors. *Nature communications*, 17(1).