

Resource Summary Report

Generated by [NIF](#) on Aug 1, 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: 20260801T050334+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 798 mentions in open access literature.

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

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

Meitei HT, et al. (2026) CCL20-CCR6 signaling alters the metabolic reprogramming to promote the pathogenic Th17 cell differentiation. *iScience*, 29(1), 114385.

Avanessian SC, et al. (2026) IL2/IL15 Signaling Induces NK Cell Production of FLT3LG, Augmenting Anti-PD-1 Immunotherapy. *Cancer immunology research*, 14(1), 122.

Meghdadi B, et al. (2026) Digital twins for in vivo metabolic flux estimations in patients with brain cancer. *Cell metabolism*, 38(1), 228.

Godfrey WH, et al. (2025) Phosphoglycerate mutase regulates Treg differentiation through control of serine synthesis and one-carbon metabolism. *eLife*, 14.

Tatsumi N, et al. (2025) CD301b+ dendritic cell-derived IL-2 dictates CD4+ T helper cell differentiation. *Nature communications*, 16(1), 2002.

Cimons JM, et al. (2025) T-bet overexpression enhances CAR T cell effector functions and antigen sensitivity. *Journal for immunotherapy of cancer*, 13(4).

Cao W, et al. (2025) A next-generation anti-CTLA-4 probody mitigates toxicity and enhances anti-tumor immunity in mice. *Nature communications*, 16(1), 9029.

Remsik J, et al. (2025) Interferon- γ orchestrates leptomeningeal anti-tumour response. *Nature*, 643(8073), 1087.

Ver Heul AM, et al. (2025) RAG suppresses group 2 innate lymphoid cells. *eLife*, 13.

Golomb SM, et al. (2025) Temporal dynamics of immune cell transcriptomics in brain metastasis progression influenced by gut microbiome dysbiosis. *Cell reports*, 44(3), 115356.

Huang C, et al. (2025) Tolerogenic dendritic cell-mediated regulatory T cell differentiation by Chinese herbal formulation attenuates colitis progression. *Journal of advanced research*, 70, 499.

Hong J, et al. (2025) $\gamma\delta$ + T-cell-derived IL-17A stimulates airway epithelial/stromal cells to secrete G-CSF, promoting lung-specific pathogenic Siglec-F+ neutrophil development in

PPE-induced emphysema. *Cellular & molecular immunology*, 22(7), 791.

Passos I, et al. (2025) ATG5 controls CD80 expression in B cells and shapes cognate CD4+ T cell responses. *Autophagy*, 21(10), 2284.

Hui R, et al. (2025) Disrupted betaine metabolism drives Th17 cell differentiation, mediating methamphetamine-induced depressive behaviors in male mice. *Journal of neuroinflammation*, 22(1), 207.

Lee J, et al. (2025) Discovery of intrahepatic CD103+ cDC1/CD8+ TRM protective immune axis against acetaminophen-induced acute liver injury. *Experimental & molecular medicine*, 57(11), 2458.

Mahesh PP, et al. (2025) An arthropod transporter IsOATP4056 exerts inhibitory effect on its interacting membrane protein to facilitate rickettsial pathogen survival in ticks. *Cell communication and signaling : CCS*, 23(1), 540.

Namjoshi P, et al. (2025) Rickettsial pathogen augments tick vesicular-associated membrane proteins for infection and survival in the vector host. *mBio*, 16(3), e0354924.

Robles-Vera I, et al. (2025) Microbiota translocation following intestinal barrier disruption promotes Mincle-mediated training of myeloid progenitors in the bone marrow. *Immunity*, 58(2), 381.

Zhou Z, et al. (2025) Stromal Cell Subsets Show Model-Dependent Changes in Experimental Colitis and Affect Epithelial Tissue Repair and Immune Cell Activation. *Inflammatory bowel diseases*, 31(4), 1051.