

Resource Summary Report

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B6.FVB-Tg(Rorc-cre)1Litt/J

RRID:IMSR_JAX:022791

Type: Organism

Proper Citation

RRID:IMSR_JAX:022791

Organism Information

URL: <https://www.jax.org/strain/022791>

Proper Citation: RRID:IMSR_JAX:022791

Description: Mus musculus with name B6.FVB-Tg(Rorc-cre)1Litt/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: RAR-related orphan receptor gamma|transgene insertion 1; Dan R Littman; mutant strain|congenic strain: Rorc|Tg(Rorc-cre)1Litt

Affected Gene: RAR-related orphan receptor gamma|transgene insertion 1; Dan R Littman

Genomic Alteration: transgene insertion 1; Dan R Littman

Catalog Number: JAX:022791

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.FVB-Tg(Rorc-cre)1Litt/J

Record Creation Time: 20250513T053746+0000

Record Last Update: 20260829T045049+0000

Ratings and Alerts

No rating or validation information has been found for B6.FVB-Tg(Rorc-cre)1Litt/J.

No alerts have been found for B6.FVB-Tg(Rorc-cre)1Litt/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 33 mentions in open access literature.

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

Reid L, et al. (2026) Neuronal expression of Retinoid-Related Orphan Receptor Gamma (ROR?) and revisiting its role in the Central Nervous System. bioRxiv : the preprint server for biology.

Gao X, et al. (2026) H3K27-specific demethylase orchestrates the phenotypic and functional plasticity of intestinal ILC3s. Cell reports, 45(1), 116862.

Pires S, et al. (2026) Innate lymphoid cells activated by the cytokine TL1A link colitis to emergency granulopoiesis and the recruitment of tumor-promoting neutrophils. Immunity, 59(2), 372.

Blum JE, et al. (2026) Identification and characterization of dietary antigens in oral tolerance. Science immunology, 11(117), eaeb4684.

Sun N, et al. (2026) Tfam-mediated metabolic perturbation in ROR?t+ lymphocytes impacts intestinal tissue homeostasis and promotes GATA3+ROR?t+ innate lymphoid cells. Cell reports, 45(2), 116952.

Yang W, et al. (2026) Transcription factor BHLHE40 expression in group 3 innate lymphoid cells and ROR?t? antigen-presenting cells coordinates intestinal immunity. Immunity.

Torrico EC, et al. (2026) High-fat diet causes rapid loss of intestinal group 3 innate lymphoid cells through microbiota-driven inflammation and mitochondrial stress. Immunity, 59(4), 988.

Rodrigues PF, et al. (2025) Ror?t-positive dendritic cells are required for the induction of peripheral regulatory T cells in response to oral antigens. Cell, 188(10), 2720.

Fonseca-Pereira D, et al. (2025) The metabolic sensor LKB1 regulates ILC3 homeostasis and mitochondrial function. Cell reports, 44(4), 115456.

Zhou YD, et al. (2025) T cell fate is dictated by different antigen presenting cells in response to dietary versus gut epithelial self-antigen. bioRxiv : the preprint server for biology.

Fachi JL, et al. (2025) Fiber- and acetate-mediated modulation of MHC-II expression on intestinal epithelium protects from *Clostridioides difficile* infection. *Cell host & microbe*, 33(2), 235.

Gao X, et al. (2025) The transcription factor IRF4 regulates the homeostasis and function of intestinal ILC3s. *iScience*, 28(7), 112800.

Liang Z, et al. (2024) Intestinal CXCR6⁺ ILC3s migrate to the kidney and exacerbate renal fibrosis via IL-23 receptor signaling enhanced by PD-1 expression. *Immunity*, 57(6), 1306.

Gao KM, et al. (2024) Endothelial cell expression of a STING gain-of-function mutation initiates pulmonary lymphocytic infiltration. *Cell reports*, 43(4), 114114.

Subudhi I, et al. (2024) Metabolic coordination between skin epithelium and type 17 immunity sustains chronic skin inflammation. *Immunity*, 57(7), 1665.

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.

Teghanemt A, et al. (2023) DNA demethylation fine-tunes IL-2 production during thymic regulatory T cell differentiation. *EMBO reports*, 24(5), e55543.

Frascoli M, et al. (2023) Skin ?? T cell inflammatory responses are hardwired in the thymus by oxysterol sensing via GPR183 and calibrated by dietary cholesterol. *Immunity*, 56(3), 562.

Valle-Noguera A, et al. (2023) IL-18-induced HIF-1? in ILC3s ameliorates the inflammation of *C. rodentium*-induced colitis. *Cell reports*, 42(12), 113508.

Zheng M, et al. (2023) Transcription factor TCF-1 regulates the functions, but not the development, of lymphoid tissue inducer subsets in different tissues. *Cell reports*, 42(8), 112924.