

Resource Summary Report

Generated by PRECISE-TBI on Aug 2, 2026

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: 20260801T050455+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 26 mentions in open access literature.

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

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.

Rodrigues PF, et al. (2025) Ror γ 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.

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.

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.

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

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 α 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.

Teghanemt A, et al. (2022) CD4 expression in effector T cells depends on DNA demethylation over a developmentally established stimulus-responsive element. *Nature communications*, 13(1), 1477.

Chang J, et al. (2022) Setd2 determines distinct properties of intestinal ILC3 subsets to regulate intestinal immunity. *Cell reports*, 38(11), 110530.

Vanderkerken M, et al. (2021) ILC3s control splenic cDC homeostasis via lymphotoxin signaling. *The Journal of experimental medicine*, 218(5).

Wang X, et al. (2021) GPR34-mediated sensing of lysophosphatidylserine released by apoptotic neutrophils activates type 3 innate lymphoid cells to mediate tissue repair. *Immunity*, 54(6), 1123.

Lee M, et al. (2020) Single-cell RNA sequencing identifies shared differentiation paths of mouse thymic innate T cells. *Nature communications*, 11(1), 4367.

Zhong C, et al. (2020) Differential Expression of the Transcription Factor GATA3 Specifies Lineage and Functions of Innate Lymphoid Cells. *Immunity*, 52(1), 83.

Bennion BG, et al. (2020) STING Gain-of-Function Disrupts Lymph Node Organogenesis and Innate Lymphoid Cell Development in Mice. *Cell reports*, 31(11), 107771.