

Resource Summary Report

Generated by PRECISE-TBI on Aug 2, 2026

C57BL/6-Tg(Nr4a1-EGFP/cre)820Khog/J

RRID:IMSR_JAX:016617

Type: Organism

Proper Citation

RRID:IMSR_JAX:016617

Organism Information

URL: <https://www.jax.org/strain/016617>

Proper Citation: RRID:IMSR_JAX:016617

Description: Mus musculus with name C57BL/6-Tg(Nr4a1-EGFP/cre)820Khog/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |nuclear receptor subfamily 4; group A; member 1|transgene insertion 820; Kristin A Hogquist; mutant strain: |Nr4a1|Tg(Nr4a1-EGFP/cre)820Khog

Affected Gene: |nuclear receptor subfamily 4; group A; member 1|transgene insertion 820; Kristin A Hogquist

Genomic Alteration: transgene insertion 820; Kristin A Hogquist

Catalog Number: JAX:016617

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6-Tg(Nr4a1-EGFP/cre)820Khog/J

Record Creation Time: 20250513T053730+0000

Record Last Update: 20260801T050447+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Tg(Nr4a1-EGFP/cre)820Khog/J.

No alerts have been found for C57BL/6-Tg(Nr4a1-EGFP/cre)820Khog/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 39 mentions in open access literature.

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

Eberhard JN, et al. (2025) Immune targeting and host-protective effects of the latent stage of *Toxoplasma gondii*. *Nature microbiology*, 10(4), 992.

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

Yang X, et al. (2025) Nociceptor-derived CGRP enhances dermal type I conventional dendritic cell function to drive autoreactive CD8+ T cell responses in vitiligo. *Immunity*, 58(8), 2086.

You S, et al. (2024) Lymphatic-localized Treg-mregDC crosstalk limits antigen trafficking and restrains anti-tumor immunity. *Cancer cell*, 42(8), 1415.

Witt LT, et al. (2024) *Streptococcus agalactiae* and *Escherichia coli* induce distinct effector ?? T cell responses during neonatal sepsis. *iScience*, 27(5), 109669.

Sekiya T, et al. (2024) Tonic TCR and IL-1? signaling mediate phenotypic alterations of naive CD4+ T cells. *Cell reports*, 43(3), 113954.

Pankhurst TE, et al. (2023) MAIT cells activate dendritic cells to promote TFH cell differentiation and induce humoral immunity. *Cell reports*, 42(4), 112310.

Heim TA, et al. (2023) CXCR6 promotes dermal CD8 + T cell survival and transition to long-term tissue residence. *bioRxiv : the preprint server for biology*.

Li Y, et al. (2023) CCR4 and CCR7 differentially regulate thymocyte localization with distinct outcomes for central tolerance. *eLife*, 12.

Mandarano AH, et al. (2023) DRAK2 contributes to type 1 diabetes by negatively regulating IL-2 sensitivity to alter regulatory T cell development. *Cell reports*, 42(2), 112106.

Kaminski A, et al. (2023) Resident regulatory T cells reflect the immune history of individual lymph nodes. *Science immunology*, 8(89), eadj5789.

Huang H, et al. (2023) A binary module for microbiota-mediated regulation of $\gamma\delta$ 17 cells, hallmarked by microbiota-driven expression of programmed cell death protein 1. *Cell reports*, 42(8), 112951.

Chen ST, et al. (2023) B cell receptor signaling in germinal centers prolongs survival and primes B cells for selection. *Immunity*, 56(3), 547.

Muñoz-Ruiz M, et al. (2023) IFN- γ -dependent interactions between tissue-intrinsic $\gamma\delta$ T cells and tissue-infiltrating CD8 T cells limit allergic contact dermatitis. *The Journal of allergy and clinical immunology*, 152(6), 1520.

Lindsay RS, et al. (2022) NK cells reduce anergic T cell development in early-stage tumors by promoting myeloid cell maturation. *Frontiers in oncology*, 12, 1058894.

Somani VK, et al. (2022) IRAK4 Signaling Drives Resistance to Checkpoint Immunotherapy in Pancreatic Ductal Adenocarcinoma. *Gastroenterology*, 162(7), 2047.

Kovacs MA, et al. (2022) Meningeal lymphatic drainage promotes T cell responses against *Toxoplasma gondii* but is dispensable for parasite control in the brain. *eLife*, 11.

Bittner S, et al. (2022) Biosensors for inflammation as a strategy to engineer regulatory T cells for cell therapy. *Proceedings of the National Academy of Sciences of the United States of America*, 119(40), e2208436119.

Emoto T, et al. (2022) Colony stimulating factor-1 producing endothelial cells and mesenchymal stromal cells maintain monocytes within a perivascular bone marrow niche. *Immunity*, 55(5), 862.

Christian DA, et al. (2022) cDC1 coordinate innate and adaptive responses in the omentum required for T cell priming and memory. *Science immunology*, 7(75), eabq7432.