

Resource Summary Report

Generated by [NIF](#) on Sep 3, 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: 20260829T045029+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 45 mentions in open access literature.

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

Xu X, et al. (2026) Commensal-derived trehalose monocorynomycolate triggers ?? T cell-driven protective ocular barrier immunity. *Immunity*, 59(2), 388.

Paiva RA, et al. (2026) MAIT cells egress the thymus at several maturation stages with selective capacity to seed different tissues. *Immunity*, 59(6), 1512.

Grassmann S, et al. (2026) Stepwise epigenetic signal integration drives adaptive programming of cytotoxic lymphocytes. *Immunity*, 59(2), 339.

Sajani A, et al. (2026) Heterogeneity and plasticity of the naive CD4⁺ T cell compartment. *Cell reports*, 45(3), 116980.

Merolle M, et al. (2026) The role of integrins in T cell-mediated resistance to *Cryptosporidium parvum*. *bioRxiv : the preprint server for biology*.

Sawada K, et al. (2026) Ambient temperature regulates CD4⁺ T cell tonic T cell receptor signaling and responsiveness. *iScience*, 29(5), 115801.

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.

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

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

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

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

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

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.

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

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

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