

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 3, 2026

B6.Cg-Thy1^a/Cy Tg(TcraTcrb)8Rest/J

RRID:IMSR_JAX:005023

Type: Organism

Proper Citation

RRID:IMSR_JAX:005023

Organism Information

URL: <https://www.jax.org/strain/005023>

Proper Citation: RRID:IMSR_JAX:005023

Description: Mus musculus with name B6.Cg-Thy1^a/Cy Tg(TcraTcrb)8Rest/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg Thy1-Tg(TcraTcrb)8Rest/J. pmel-1. C57BL/6-Tg(TcraTcrb)8Rest/J

Notes: gene symbol note: transgene insertion 8; Nicholas Restifo|T cell receptor beta chain|T cell receptor alpha chain|thymus cell antigen 1; theta; mutant strain|congenic strain: Tg(TcraTcrb)8Rest|Tcrb|Tcra|Thy1

Affected Gene: transgene insertion 8; Nicholas Restifo|T cell receptor beta chain|T cell receptor alpha chain|thymus cell antigen 1; theta

Genomic Alteration: transgene insertion 8; Nicholas Restifo|a variant

Catalog Number: JAX:005023

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Thy1^a/Cy Tg(TcraTcrb)8Rest/J

Record Creation Time: 20250513T053647+0000

Record Last Update: 20260801T050350+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Thy1^a/Cy Tg(TcraTcrb)8Rest/J.

No alerts have been found for B6.Cg-Thy1^a/Cy Tg(TcraTcrb)8Rest/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 88 mentions in open access literature.

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

Jiang H, et al. (2026) IL-9 as a naturally orthogonal cytokine with optimal JAK/STAT signaling for engineered T cell therapy. *Immunity*, 59(1), 177.

Seishima N, et al. (2025) Enhancing DC cancer vaccine by allogeneic MHC class II expression and Treg depletion. *JCI insight*, 10(16).

Pretto S, et al. (2025) A functional single-cell metabolic survey identifies Elovl1 as a target to enhance CD8+ T cell fitness in solid tumours. *Nature metabolism*, 7(3), 508.

Zhang R, et al. (2025) USP30 inhibition augments mitophagy to prevent T cell exhaustion. *Science advances*, 11(33), eadv6902.

Ando Y, et al. (2025) Hyperdifferentiated murine melanoma cells promote adaptive anti-tumor immunity but activate the immune checkpoint system. *Oncoimmunology*, 14(1), 2437211.

Frisch AT, et al. (2025) Redirecting glucose flux during in vitro expansion generates epigenetically and metabolically superior T cells for cancer immunotherapy. *Cell metabolism*, 37(4), 870.

Phelps CM, et al. (2025) Exercise-induced microbiota metabolite enhances CD8 T cell antitumor immunity promoting immunotherapy efficacy. *Cell*.

Labiano S, et al. (2025) Targeting the CD40 costimulatory receptor to improve virotherapy efficacy in diffuse midline gliomas. *Cell reports. Medicine*, 6(7), 102204.

Cole AC, et al. (2025) Adoptively transferred Th17 cells cooperate with host B cells to achieve durable tumor immunity. *Cancer cell*, 43(9), 1697.

Srivastava J, et al. (2025) Blocking Nitrosylation Induces Immunogenic Cell Death by Sensitizing NRAS-Mutant Melanoma to MEK Inhibitors. *Cancer research*, 85(12), 2268.

Zuo Y, et al. (2025) IL-36? armored CAR T cells reprogram neutrophils to induce endogenous antitumor immunity. *Cancer cell*.

Gong L, et al. (2025) Cancer immunology data engine reveals secreted AOA as a potential immunotherapy. *Cell*, 188(18), 5062.

Mortazavi Farsani SS, et al. (2025) Pyruvate kinase M2 activation reprograms mitochondria in CD8 T cells, enhancing effector functions and efficacy of anti-PD1 therapy. *Cell metabolism*, 37(6), 1294.

Vadovics M, et al. (2025) Tailoring the adjuvanticity of lipid nanoparticles by PEG lipid ratio and phospholipid modifications. *Nature nanotechnology*, 20(9), 1312.

Zhou X, et al. (2025) Potentiating anti-tumor immunity by re-engaging immune synapse molecules. *Cell reports. Medicine*, 6(3), 101975.

Zhang FQ, et al. (2025) Zeaxanthin augments CD8+ effector T cell function and immunotherapy efficacy. *Cell reports. Medicine*, 6(9), 102324.

Rosenbaum SR, et al. (2024) SOX10 Loss Sensitizes Melanoma Cells to Cytokine-Mediated Inflammatory Cell Death. *Molecular cancer research : MCR*, 22(2), 209.

Lin CP, et al. (2024) Multimodal stimulation screens reveal unique and shared genes limiting T cell fitness. *Cancer cell*.

Li X, et al. (2024) MCRS1 sensitizes T cell-dependent immunotherapy by augmenting MHC-I expression in solid tumors. *The Journal of experimental medicine*, 221(12).

Andrews LP, et al. (2024) LAG-3 and PD-1 synergize on CD8+ T cells to drive T cell exhaustion and hinder autocrine IFN-?-dependent anti-tumor immunity. *Cell*, 187(16), 4355.