

Resource Summary Report

Generated by [NIF](#) on Aug 19, 2026

C57BL/6-Tg(TcraTcrb)425Cbn/Crl

RRID:IMSR_CRL:643

Type: Organism

Proper Citation

RRID:IMSR_CRL:643

Organism Information

URL: <http://www.criver.com/products-services/basic-research/find-a-model/ot-ii-mouse>

Proper Citation: RRID:IMSR_CRL:643

Description: Mus musculus with name C57BL/6-Tg(TcraTcrb)425Cbn/Crl from IMSR.

Species: Mus musculus

Notes: gene symbol note: T cell receptor alpha chain|T cell receptor beta chain;
unclassified: Tcra|Tcrb

Affected Gene: T cell receptor alpha chain|T cell receptor beta chain

Genomic Alteration: transgene insertion 425; Frank Carbone|

Catalog Number: CRL:643

Database: Charles River Laboratories

Database Abbreviation: CRL

Availability: live

Organism Name: C57BL/6-Tg(TcraTcrb)425Cbn/Crl

Record Creation Time: 20250513T062410+0000

Record Last Update: 20260815T055928+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Tg(TcraTcrb)425Cbn/Crl.

No alerts have been found for C57BL/6-Tg(TcraTcrb)425Cbn/Crl.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Charles River Laboratories

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Ran S, et al. (2026) The MEK1/2-IRF4 axis fosters T follicular helper cell differentiation and antitumor humoral immune response. *Journal of translational medicine*, 24(1).

Samson GPB, et al. (2025) NUPA10hd-immortalized and genetically engineered progenitors allow studying dendritic cell immune functions. *Frontiers in immunology*, 16, 1658429.

Janež Š, et al. (2024) Distinctive Immune Signatures Driven by Structural Alterations in Desmuramylpeptide NOD2 Agonists. *Journal of medicinal chemistry*, 67(19), 17585.

Mebrahtu A, et al. (2024) A bispecific CD40 agonistic antibody allowing for antibody-peptide conjugate formation to enable cancer-specific peptide delivery, resulting in improved T proliferation and anti-tumor immunity in mice. *Nature communications*, 15(1), 9542.

Verma SC, et al. (2024) Cathelicidin antimicrobial peptide expression in neutrophils and neurons antagonistically modulates neuroinflammation. *The Journal of clinical investigation*, 135(3).

Manni G, et al. (2024) Amniotic fluid stem cell-derived extracellular vesicles educate type 2 conventional dendritic cells to rescue autoimmune disorders in a multiple sclerosis mouse model. *Journal of extracellular vesicles*, 13(6), e12446.

Calcagno G, et al. (2023) Simulated Microgravity Disrupts Nuclear Factor κ B Signaling and Impairs Murine Dendritic Cell Phenotype and Function. *International journal of molecular sciences*, 24(2).

Drouillas B, et al. (2023) Persistent Nav1.1 and Nav1.6 currents drive spinal locomotor functions through nonlinear dynamics. *Cell reports*, 42(9), 113085.

Guzelj S, et al. (2022) Covalently Conjugated NOD2/TLR7 Agonists Are Potent and Versatile Immune Potentiators. *Journal of medicinal chemistry*, 65(22), 15085.

Gargaro M, et al. (2022) Indoleamine 2,3-dioxygenase 1 activation in mature cDC1 promotes tolerogenic education of inflammatory cDC2 via metabolic communication. *Immunity*, 55(6), 1032.

Russo F, et al. (2022) Editing T cell repertoire by thymic epithelial cell-directed gene transfer abrogates risk of type 1 diabetes development. *Molecular therapy. Methods &*

clinical development, 25, 508.

Lanna A, et al. (2022) An intercellular transfer of telomeres rescues T cells from senescence and promotes long-term immunological memory. *Nature cell biology*, 24(10), 1461.

Nguyen TL, et al. (2022) Immunosuppressive biomaterial-based therapeutic vaccine to treat multiple sclerosis via re-establishing immune tolerance. *Nature communications*, 13(1), 7449.

Pylaeva E, et al. (2022) During early stages of cancer, neutrophils initiate anti-tumor immune responses in tumor-draining lymph nodes. *Cell reports*, 40(7), 111171.

Guzelj S, et al. (2021) Structural Fine-Tuning of Desmuramylpeptide NOD2 Agonists Defines Their In Vivo Adjuvant Activity. *Journal of medicinal chemistry*, 64(11), 7809.

Clemen R, et al. (2021) Gas Plasma Technology Augments Ovalbumin Immunogenicity and OT-II T Cell Activation Conferring Tumor Protection in Mice. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 8(10), 2003395.

Lapazio L, et al. (2021) H2-M and H2-O as Targeting Vehicles for the MHC Class II Processing Compartment Promote Antigen-Specific CD4+ T Cell Activation. *Vaccines*, 9(10).

Caputo S, et al. (2020) Galectin-3 in Prostate Cancer Stem-Like Cells Is Immunosuppressive and Drives Early Metastasis. *Frontiers in immunology*, 11, 1820.

Alix E, et al. (2020) The Tumour Suppressor TMEM127 Is a Nedd4-Family E3 Ligase Adaptor Required by Salmonella SteD to Ubiquitinate and Degrade MHC Class II Molecules. *Cell host & microbe*, 28(1), 54.

Rudd CE, et al. (2020) Small Molecule Inhibition of GSK-3 Specifically Inhibits the Transcription of Inhibitory Co-receptor LAG-3 for Enhanced Anti-tumor Immunity. *Cell reports*, 30(7), 2075.