

Resource Summary Report

Generated by [dkNET](#) on Jul 29, 2026

B6.Cg-Tg(TcraTcrb)425Cbn/J

RRID:IMSR_JAX:004194

Type: Organism

Proper Citation

RRID:IMSR_JAX:004194

Organism Information

URL: <https://www.jax.org/strain/004194>

Proper Citation: RRID:IMSR_JAX:004194

Description: Mus musculus with name B6.Cg-Tg(TcraTcrb)425Cbn/J from IMSR.

Species: Mus musculus

Synonyms: C57BL/6-Tg(TcraTcrb)425Cbn/J

Notes: gene symbol note: T cell receptor beta chain|T cell receptor alpha chain|transgene insertion 425; Frank Carbone; mutant strain|congenic strain: Tcrb|Tcra|Tg(TcraTcrb)425Cbn

Affected Gene: T cell receptor beta chain|T cell receptor alpha chain|transgene insertion 425; Frank Carbone

Genomic Alteration: transgene insertion 425; Frank Carbone

Catalog Number: JAX:004194

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(TcraTcrb)425Cbn/J

Record Creation Time: 20250513T053643+0000

Record Last Update: 20260725T044353+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(TcraTcrb)425Cbn/J.

No alerts have been found for B6.Cg-Tg(TcraTcrb)425Cbn/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 634 mentions in open access literature.

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

Brown JA, et al. (2026) Gut microbiota promotes immune tolerance at the maternal-fetal interface. *Cell*, 189(1), 196.

Herbrich S, et al. (2026) TET2-mutant clonal hematopoiesis enhances macrophage antigen presentation and improves immune checkpoint therapy in solid tumors. *Cancer cell*, 44(1), 187.

Kim H, et al. (2026) Myelin antigen capture in the CNS by B cells expressing EBV latent membrane protein 1 leads to demyelinating lesion formation. *Cell*.

Heras-Murillo I, et al. (2025) Immunotherapy with conventional type-1 dendritic cells induces immune memory and limits tumor relapse. *Nature communications*, 16(1), 3369.

Gu W, et al. (2025) Migrasomes derived from human umbilical cord mesenchymal stem cells: a new therapeutic agent for ovalbumin-induced asthma in mice. *Stem cell research & therapy*, 16(1), 26.

Lu L, et al. (2025) AF6 regulates intestinal IgA via crosstalk between intestinal epithelial cells and immune cells in inflammatory bowel disease. *iScience*, 28(7), 112658.

Li X, et al. (2025) Hepatitis B virus surface antigen drives T cell immunity through non-canonical antigen presentation in mice. *Nature communications*, 16(1), 4591.

Liu P, et al. (2025) PROTAC-based nanoantigens promote cross-presentation and trafficking of dendritic cell vaccine for enhanced antitumor efficacy. *Journal for immunotherapy of cancer*, 13(12).

Bai Y, et al. (2025) β -Glucan induced plasma B cells differentiation to enhance antitumor immune responses by Dectin-1. *BMC immunology*, 26(1), 2.

Zhu B, et al. (2025) 4-Octyl Itaconate Modulates Dendritic Cells Function and Tumor Immunity via NRF2 Activation. *Journal of inflammation research*, 18, 5699.

Tripathi A, et al. (2025) Nrf2 drives activation-driven expansion of CD4⁺T cells by modulating glucose and glutamine metabolism. *Cell reports*, 44(9), 116177.

Fournier C, et al. (2025) Nanostructured lipid carriers based mRNA vaccine leads to a T cell-inflamed tumour microenvironment favourable for improving PD-1/PD-L1 blocking therapy and long-term immunity in a cold tumour model. *EBioMedicine*, 112, 105543.

Ghasemi A, et al. (2025) Dendritic cell progenitors engineered to express extracellular-vesicle-internalizing receptors enhance cancer immunotherapy in mouse models. *Nature communications*, 16(1), 9148.

Yang J, et al. (2025) STK11 coordinates IL-4 signaling with metabolic reprogramming to control M2 macrophage polarization and antitumor immunity. *Science advances*, 11(39), eadx5495.

Srinivasan T, et al. (2025) The gut microbiota directs vitamin A flux to regulate intestinal T cell development. *bioRxiv : the preprint server for biology*.

Yu B, et al. (2025) Microbiota-derived butyrate alleviates asthma via inhibiting Tfh13-mediated IgE production. *Signal transduction and targeted therapy*, 10(1), 181.

Kimura R, et al. (2025) Selective expansion and differentiation of antigen-specific CD4⁺ T-helper cells by engineered extracellular vesicles. *Drug delivery*, 32(1), 2509969.

Song J, et al. (2025) Antigen-presenting cancer associated fibroblasts enhance antitumor immunity and predict immunotherapy response. *Nature communications*, 16(1), 2175.

Song Y, et al. (2025) Microbiota-derived H₂S induces c-kit⁺ cDC1 autophagic cell death and liver inflammation in metabolic dysfunction-associated steatohepatitis. *Nature communications*, 16(1), 2222.

Lanza JS, et al. (2025) Targeting Langerhans cells via skin delivery of HIV Envelope enhances the antibody response to vaccination. *NPJ vaccines*, 10(1), 170.