Resource Summary Report

Generated by dkNET on Sep 11, 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 alpha chain|T cell receptor beta chain|transgene insertion 425; Frank Carbone; mutant strain|congenic strain: Tcra|Tcrb|Tg(TcraTcrb)425Cbn

Affected Gene: T cell receptor alpha chain|T cell receptor beta 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: 20260905T044424+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 667 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Chen S, et al. (2026) Slc1a2-mediated Glutamate Transport Promotes Dendritic Cell Immunity through Sema3A-regulated Cytoskeletal Remodeling and Migration. International journal of biological sciences, 22(11), 5799.

Yi X, et al. (2026) Epidermal MHC-II-mediated NK cell recruitment triggers keratinocyte pyroptosis, facilitating pathogenesis of psoriasis. Experimental & molecular medicine, 58(5), 1573.

Chen X, et al. (2026) Engineered virus-hunter vaccine overcomes HBV immune tolerance. Gut, 75(6), 1211.

Zhao W, et al. (2026) A fungi-derived cyclic peptide enhances Th9-mediated antitumor immunity by targeting ZAP70 and SREBP1. The Journal of clinical investigation, 136(3).

Kang S, et al. (2026) Defective inducible T cell costimulator signalling drives neuropilin-1hi CD4+ T cell-mediated non-germinal centre B cell activation via impaired regulatory T cell maintenance in a lupus model. Experimental & molecular medicine, 58(6), 1971.

Ha J, et al. (2026) Dual phagocytosis-checkpoint blockade revitalizes immune surveillance in mouse models of glioblastoma. Nature communications, 17(1).

Hamaidi I, et al. (2026) SIRT2-mediated deacetylation of LCK governs the magnitude of T cell receptor signaling. Nature immunology, 27(2), 213.

Sun JL, et al. (2026) Ferroptotic tumor cells reprogram tumor-associated macrophage antigen presentation to enhance the efficacy of immune checkpoint blockade. Cell reports. Medicine, 7(5), 102774.

Stötzel I, et al. (2026) A centrally positioned cluster of multiple centrioles in antigen-presenting cells fosters T cell activation. Nature communications, 17(1), 536.

Mathew NR, et al. (2026) Nasal CD4+ tissue-resident memory T cells provide cross-protective immunity to influenza. The Journal of experimental medicine, 223(5).

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

Taguchi S, et al. (2026) Induced pluripotent stem cell-derived dendritic cells potentiate the efficacy of interleukin-12-expressing oncolytic HSV-1. Molecular therapy. Oncology, 34(2), 201252.

Sun Q, et al. (2026) Facile induction of immune tolerance by an interleukin-2-TGF? surrogate agonist. Nature, 653(8115), 888.

Murakami R, et al. (2026) Foxp3 and BATF cooperatively direct cis-regulatory programs and gene expression for effector Treg cell differentiation. Immunity, 59(5), 1253.

Meng X, et al. (2026) Long-term vagus nerve stimulation synergized with rapamycin elicits neuroimmune modulation to prolong skin allograft survival. iScience, 29(4), 115189.

Zhang J, et al. (2026) Tumor-associated macrophages educated by IGSF9 exhibit a senescence-associated secretory phenotype to promote tumor immune escape. Journal for immunotherapy of cancer, 14(1).

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

Qian J, et al. (2026) Disease-associated microglia adopt stage-specific phenotypes that regulate T cell fate and immunity in glioma. Immunity.

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

Boccia T, et al. (2026) Protocol for modeling innate immune training by repeated alum exposure in mice (adjuvant conditioning). STAR protocols, 7(1), 104390.