

Resource Summary Report

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C57BL/6-Tg(Tcra2D2.Tcrb2D2)1Kuch/J

RRID:IMSR_JAX:006912

Type: Organism

Proper Citation

RRID:IMSR_JAX:006912

Organism Information

URL: <https://www.jax.org/strain/006912>

Proper Citation: RRID:IMSR_JAX:006912

Description: Mus musculus with name C57BL/6-Tg(Tcra2D2.Tcrb2D2)1Kuch/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgene insertion 1; Vijay Kuchroo|T cell receptor beta chain|T cell receptor alpha chain; coisogenic strain|mutant strain: Tg(Tcra2D2;Tcrb2D2)1Kuch|Tcrb|Tcra

Affected Gene: transgene insertion 1; Vijay Kuchroo|T cell receptor beta chain|T cell receptor alpha chain

Genomic Alteration: transgene insertion 1; Vijay Kuchroo

Catalog Number: JAX:006912

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6-Tg(Tcra2D2.Tcrb2D2)1Kuch/J

Record Creation Time: 20250513T053700+0000

Record Last Update: 20260725T044413+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Tg(Tcra2D2.Tcrb2D2)1Kuch/J.

No alerts have been found for C57BL/6-Tg(Tcra2D2.Tcrb2D2)1Kuch/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 48 mentions in open access literature.

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

Li X, et al. (2026) The TCR-SUB1-DOCK2 axis promotes autoimmunity by driving pathogenic CD4+ T cell tissue infiltration. *Immunity*, 59(1), 98.

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*.

Martinez F, et al. (2025) Follicular regulatory T cells promote experimental autoimmune encephalomyelitis by supporting B cell egress from germinal centers. *Science translational medicine*, 17(813), eady1268.

Zhong X, et al. (2025) Protocol for CRISPR-mediated deletion of cis-regulatory element in murine Th17 cells for in vivo assessment of effector function. *STAR protocols*, 6(2), 103831.

Wang L, et al. (2025) CLNS1A regulates genome stability and cell cycle progression to control CD4 T cell function and autoimmunity. *Science immunology*, 10(108), eadq8860.

Dong S, et al. (2025) 3-in-one PD-1CAR Tregs: A bioengineered cellular therapy for target engagement, activation, and immunosuppression with reparative potential. *iScience*, 28(11), 113677.

Benamar M, et al. (2025) Notch3 destabilizes regulatory T cells to drive autoimmune neuroinflammation in multiple sclerosis. *Immunity*, 58(11), 2753.

Das M, et al. (2025) *S. aureus* exposure during cutaneous antigen sensitization causes basophil- and interleukin-4-dependent exaggerated food anaphylaxis. *Immunity*.

Wang Y, et al. (2025) Cognate interaction-dependent pathogenicity of meningeal B cells drives neuroinflammation relapse. *Immunity*, 58(9), 2256.

Cordeiro B, et al. (2024) Obesity intensifies sex-specific interferon signaling to selectively worsen central nervous system autoimmunity in females. *Cell metabolism*, 36(10), 2298.

Fu JY, et al. (2024) Lysine acetyltransferase 6A maintains CD4⁺ T cell response via epigenetic reprogramming of glucose metabolism in autoimmunity. *Cell metabolism*, 36(3), 557.

Zhong X, et al. (2024) Distinct ROR γ t-dependent Th17 immune responses are required for autoimmune pathogenesis and protection against bacterial infection. *Cell reports*, 43(11), 114951.

Rossi B, et al. (2023) Alpha4 beta7 integrin controls Th17 cell trafficking in the spinal cord leptomeninges during experimental autoimmune encephalomyelitis. *Frontiers in immunology*, 14, 1071553.

Patel PS, et al. (2022) Translational regulation of TFH cell differentiation and autoimmune pathogenesis. *Science advances*, 8(25), eabo1782.

Shi K, et al. (2022) Bone marrow hematopoiesis drives multiple sclerosis progression. *Cell*, 185(13), 2234.

Sugiura A, et al. (2022) MTHFD2 is a metabolic checkpoint controlling effector and regulatory T cell fate and function. *Immunity*, 55(1), 65.

Hall JA, et al. (2022) Transcription factor ROR γ enforces stability of the Th17 cell effector program by binding to a Rorc cis-regulatory element. *Immunity*, 55(11), 2027.

Zeng Q, et al. (2022) Cbl-b restrains priming of pathogenic Th17 cells via the inhibition of IL-6 production by macrophages. *iScience*, 25(10), 105151.

Hernández-Malmierca P, et al. (2022) Antigen presentation safeguards the integrity of the hematopoietic stem cell pool. *Cell stem cell*, 29(5), 760.

Rustenhoven J, et al. (2021) Functional characterization of the dural sinuses as a neuroimmune interface. *Cell*, 184(4), 1000.