

Resource Summary Report

Generated by [NIF](#) on Aug 16, 2026

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

Affected Gene: T cell receptor alpha chain|transgene insertion 1; Vijay Kuchroo|T cell receptor beta 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: 20260815T050616+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 51 mentions in open access literature.

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

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*.

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

Sugiura A, et al. (2026) Tissue and CD4 T cell subset dependence on the amino acid transporter SLC38A1. *Cell metabolism*, 38(4), 712.

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

Rock RR, et al. (2026) Female-enriched *Eggerthella lenta* drives neuroinflammation and IFN- γ via host receptor TLR2. *bioRxiv* : the preprint server for biology.

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.

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

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

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

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.

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.

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.

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

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.