

Resource Summary Report

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

B6.129S2-Tcra^{tm1Mom/J}

RRID:IMSR_JAX:002116

Type: Organism

Proper Citation

RRID:IMSR_JAX:002116

Organism Information

URL: <https://www.jax.org/strain/002116>

Proper Citation: RRID:IMSR_JAX:002116

Description: Mus musculus with name B6.129S2-Tcra^{tm1Mom/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: T cell receptor alpha chain; mutant strain|congenic strain: Tcra

Affected Gene: T cell receptor alpha chain

Genomic Alteration: targeted mutation 1; Peter Mombaerts

Catalog Number: JAX:002116

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S2-Tcra^{tm1Mom/J}

Record Creation Time: 20250513T053629+0000

Record Last Update: 20260725T044337+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S2-Tcra^{tm1Mom/J}.

No alerts have been found for B6.129S2-Tcra^{tm1Mom/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 65 mentions in open access literature.

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

Vobořil M, et al. (2026) Thymic myeloid cells are heterogeneous and include a novel population of transitional dendritic cells. *The Journal of experimental medicine*, 223(1).

Zhang FQ, et al. (2025) Zeaxanthin augments CD8⁺ effector T cell function and immunotherapy efficacy. *Cell reports. Medicine*, 6(9), 102324.

Vobořil M, et al. (2025) Thymic DC2 are heterogeneous and include a novel population of transitional dendritic cells. *bioRxiv : the preprint server for biology*.

Chen F, et al. (2025) Dual CDK and MEK Inhibition potentiates CD8⁺ T cell-mediated antitumor immunity by inducing pyroptotic cell death in high-mutational head and neck cancer. *Journal of experimental & clinical cancer research : CR*, 44(1), 300.

Shimba A, et al. (2025) Stress-induced glucocorticoids enhance acute inflammation by promoting the differentiation of Th17 cells. *Cell reports*, 44(8), 116093.

Cole AC, et al. (2025) Adoptively transferred Th17 cells cooperate with host B cells to achieve durable tumor immunity. *Cancer cell*, 43(9), 1697.

Chang E, et al. (2025) CD4 T cell dysfunction is associated with bacterial recrudescence during chronic tuberculosis. *Nature communications*, 16(1), 2636.

Reyes EY, et al. (2025) *Cryptococcus* exploits delayed microglial activation, and microglial osteopontin/Spp1 impairs peripheral host control. *Cell host & microbe*, 33(12), 2067.

Headley CA, et al. (2024) Mitochondrial Transplantation promotes protective effector and memory CD4⁺ T cell response during *Mycobacterium tuberculosis* infection and diminishes exhaustion and senescence in elderly CD4⁺ T cells. *bioRxiv : the preprint server for biology*.

Harris JC, et al. (2024) The microbiota and T cells non-genetically modulate inherited phenotypes transgenerationally. *Cell reports*, 43(4), 114029.

You S, et al. (2024) Lymphatic-localized Treg-mregDC crosstalk limits antigen trafficking and restrains anti-tumor immunity. *Cancer cell*, 42(8), 1415.

Li X, et al. (2024) Deficiency of CBL and CBLB ubiquitin ligases leads to hyper T follicular helper cell responses and lupus by reducing BCL6 degradation. *Immunity*, 57(7), 1603.

Yu H, et al. (2024) Neurotrophic factor Neurtin modulates T cell electrical and metabolic state for the balance of tolerance and immunity. *eLife*, 13.

Porier DL, et al. (2024) Humoral and T-cell-mediated responses to an insect-specific flavivirus-based Zika virus vaccine candidate. *PLoS pathogens*, 20(10), e1012566.

Eggert J, et al. (2023) Accumulation of TCR signaling from self-antigens in naive CD8 T cells mitigates early responsiveness. *bioRxiv : the preprint server for biology*.

Leube J, et al. (2023) Single-cell fate mapping reveals widespread clonal ignorance of low-affinity T cells exposed to systemic infection. *European journal of immunology*, 53(3), e2250009.

Depew CE, et al. (2023) Optimal generation of hepatic tissue-resident memory CD4 T cells requires IL-1 and IL-2. *Proceedings of the National Academy of Sciences of the United States of America*, 120(16), e2214699120.

Jang HJ, et al. (2023) Dual receptor T cells mediate effective antitumor immune responses via increased recognition of tumor antigens. *Journal for immunotherapy of cancer*, 11(5).

Hilligan KL, et al. (2023) Bacterial-induced or passively administered interferon gamma conditions the lung for early control of SARS-CoV-2. *Nature communications*, 14(1), 8229.

Titcombe PJ, et al. (2023) BATF represses BIM to sustain tolerant T cells in the periphery. *The Journal of experimental medicine*, 220(12).