

Resource Summary Report

Generated by [NIF](#) on Aug 31, 2026

B6.Cg-Ptprc^a Pepc Tg(TcrLCMV)1Aox/PpmJ

RRID:IMSR_JAX:030450

Type: Organism

Proper Citation

RRID:IMSR_JAX:030450

Organism Information

URL: <https://www.jax.org/strain/030450>

Proper Citation: RRID:IMSR_JAX:030450

Description: Mus musculus with name B6.Cg-Ptprc^a Pepc Tg(TcrLCMV)1Aox/PpmJ from IMSR.

Species: Mus musculus

Synonyms: B6(SJL)-Ptprc [Pepc Tg\(TcrLCMV\)1Aox/PpmJ](#)

Notes: gene symbol note: T cell receptor beta chain|protein tyrosine phosphatase receptor type C|T cell receptor alpha chain|transgene insertion 1; Annette Oxenius|peptidase C; mutant strain|congenic strain: Tcrb|Ptprc|Tcra|Tg(TcrLCMV)1Aox|Pepc

Affected Gene: T cell receptor beta chain|protein tyrosine phosphatase receptor type C|T cell receptor alpha chain|transgene insertion 1; Annette Oxenius|peptidase C

Genomic Alteration: transgene insertion 1; Annette Oxenius|a variant|b variant

Catalog Number: JAX:030450

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Ptprc^a Pepc Tg(TcrLCMV)1Aox/PpmJ

Record Creation Time: 20250513T053815+0000

Record Last Update: 20260829T045125+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Ptprc^a Pepc **Tg(TcrLCMV)1Aox/PpmJ**.

No alerts have been found for B6.Cg-Ptprc^a Pepc **Tg(TcrLCMV)1Aox/PpmJ**.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Perkins B, et al. (2026) Dnmt3a-dependent de novo DNA methylation enforces lineage commitment and preserves functionality of memory Th1 and Tfh cells. *Cell reports*, 45(3), 117062.

Kawarizadeh K, et al. (2026) VPS33B regulates MHC class II antigen presentation in dendritic cells to drive CD4 T cell immunity. *iScience*, 29(6), 116052.

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

Merolle M, et al. (2026) The role of integrins in T cell-mediated resistance to *Cryptosporidium parvum*. *bioRxiv* : the preprint server for biology.

Sajani A, et al. (2025) Heterogeneity and plasticity of the naïve CD4⁺ T cell compartment. *Research square*.

Zhanzak Z, et al. (2025) Identification of indirect CD4⁺ T cell epitopes associated with transplant rejection provides a target for donor-specific tolerance induction. *Immunity*, 58(2), 448.

Lamorte S, et al. (2025) Lymph node macrophages drive immune tolerance and resistance to cancer therapy by induction of the immune-regulatory cytokine IL-33. *Cancer cell*, 43(5), 955.

Kondo T, et al. (2025) Engineering TCR-controlled fuzzy logic into CAR T cells enhances therapeutic specificity. *Cell*, 188(9), 2372.

Dhenni R, et al. (2025) Macrophages direct location-dependent recall of B cell memory to vaccination. *Cell*, 188(13), 3477.

Kögl T, et al. (2024) Patients and mice with deficiency in the SNARE protein SYNTAXIN-11 have a secondary B cell defect. *The Journal of experimental medicine*, 221(7).

Espinosa-Carrasco G, et al. (2023) Intratumoral immune triads are required for adoptive T cell therapy-mediated elimination of solid tumors. *bioRxiv : the preprint server for biology*.

Meibers HE, et al. (2023) Effector memory T cells induce innate inflammation by triggering DNA damage and a non-canonical STING pathway in dendritic cells. *Cell reports*, 42(10), 113180.

Shin DS, et al. (2023) Lung injury induces a polarized immune response by self-antigen-specific CD4⁺ Foxp3⁺ regulatory T cells. *Cell reports*, 42(8), 112839.

Harbour JC, et al. (2023) T helper 1 effector memory CD4⁺ T cells protect the skin from poxvirus infection. *Cell reports*, 42(5), 112407.

Manhas KR, et al. (2022) Reginoids Modulate Effector T Cell Expression of Mucosal Homing Markers CCR9 and $\alpha 4 \beta 7$ Integrin and Direct Their Migration In Vitro. *Frontiers in immunology*, 13, 746484.

Gerber AN, et al. (2021) The subunits of IL-12, originating from two distinct cells, can functionally synergize to protect against pathogen dissemination in vivo. *Cell reports*, 37(2), 109816.

Pack AD, et al. (2021) Hemozoin-mediated inflammasome activation limits long-lived anti-malarial immunity. *Cell reports*, 36(8), 109586.

Pandey S, et al. (2020) Pairwise Stimulations of Pathogen-Sensing Pathways Predict Immune Responses to Multi-adjuvant Combinations. *Cell systems*, 11(5), 495.