Resource Summary Report

Generated by T1D on Sep 20, 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: protein tyrosine phosphatase receptor type C|T cell receptor alpha chain|peptidase C|transgene insertion 1; Annette Oxenius|T cell receptor beta chain; mutant strain|congenic strain: Ptprc|Tcra|Pepc|Tg(TcrLCMV)1Aox|Tcrb

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

Genomic Alteration: a variant|transgene insertion 1; Annette Oxenius|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: 20260919T054959+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 T1D .

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 naive 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) Rexinoids Modulate Effector T Cell Expression of Mucosal Homing Markers CCR9 and ?4?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.