

Resource Summary Report

Generated by T1D on Sep 20, 2026

C57BL/6J-Ptprc^{em6}Lutzy/J

RRID:IMSR_JAX:033076

Type: Organism

Proper Citation

RRID:IMSR_JAX:033076

Organism Information

URL: <https://www.jax.org/strain/033076>

Proper Citation: RRID:IMSR_JAX:033076

Description: Mus musculus with name C57BL/6J-Ptprc^{em6}Lutzy/J from IMSR.

Species: Mus musculus

Synonyms: JAXBoy

Notes: gene symbol note: protein tyrosine phosphatase receptor type C; coisogenic strain|mutant strain: Ptprc

Affected Gene: protein tyrosine phosphatase receptor type C

Genomic Alteration: endonuclease-mediated mutation 6; Cathy Lutz

Catalog Number: JAX:033076

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6J-Ptprc^{em6}Lutzy/J

Record Creation Time: 20250513T053833+0000

Record Last Update: 20260919T055016+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6J-Ptprc^{em6}Lutzy/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 29 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Herbrich S, et al. (2026) TET2-mutant clonal hematopoiesis enhances macrophage antigen presentation and improves immune checkpoint therapy in solid tumors. *Cancer cell*, 44(1), 187.

Hunt KS, et al. (2026) Reduced Tumor Control in Males Can Result from Impaired CD4+ T-cell Help through the CD40L-CD40 Pathway. *Cancer immunology research*, 14(7), 1068.

Lee D, et al. (2026) Interleukin-4-producing type 2 innate lymphoid cells in the lymph node promote proallergic Tfh13 cell differentiation. *Immunity*, 59(7), 1860.

Zhang H, et al. (2026) Uncovering spatially resolved functional genomics with CRISPR screen sequencing. *Cell*, 189(15), 4594.

Zhou YD, et al. (2026) Tissue-specific tolerance mechanisms and lymph node co-drainage shape T cell immunity in the upper digestive system and pancreatic cancer progression. *Cell reports*, 45(5), 117324.

Arumugam P, et al. (2026) Mitochondrial transfer to granulocytic myeloid-derived suppressor cells augments immunosuppressive activity. *Cell reports*, 45(3), 117057.

Barbulescu A, et al. (2026) Antibody-mediated feedback modulates interclonal competition in the germinal center. *Immunity*, 59(3), 734.

Postat J, et al. (2026) Mechanosensing by T cells promotes a tissue-resident memory transcriptional program. *Nature immunology*, 27(8), 1708.

Wiggins KJ, et al. (2026) Transcriptional programming of early-forming memory B cells arises independently of cognate CD4+ T-cell interactions. *Journal of immunology* (Baltimore, Md. : 1950), 215(4).

Hegde S, et al. (2025) Myeloid progenitor dysregulation fuels immunosuppressive macrophages in tumours. *Nature*, 646(8087), 1214.

Zhou YD, et al. (2025) T cell fate is dictated by different antigen presenting cells in response to dietary versus gut epithelial self-antigen. *bioRxiv : the preprint server for biology*.

Murphy MK, et al. (2025) The transcriptional repressor BLIMP1 enforces TCF-1-dependent and -independent restriction of the memory fate of CD8⁺ T cells. *Immunity*, 58(10), 2472.

Canaday LM, et al. (2025) Refined cell transfer model reveals roles for Ascl2 and Cxcr3 in splenic localization of mouse NK cells during virus infection. *Journal of immunology* (Baltimore, Md. : 1950), 214(8), 1917.

Lauver MD, et al. (2025) The CXCR6-CXCL16 axis mediates T cell control of polyomavirus infection in the kidney. *PLoS pathogens*, 21(3), e1012969.

Longo J, et al. (2025) Glucose-dependent glycosphingolipid biosynthesis fuels CD8⁺ T cell function and tumor control. *Cell metabolism*, 37(9), 1890.

Carroll SL, et al. (2025) Identification of distinct cDC2 subpopulations that direct microbiota-specific T cell differentiation. *bioRxiv : the preprint server for biology*.

Jarjour NN, et al. (2025) Collaboration between interleukin-7 and -15 enables adaptation of tissue-resident and circulating memory CD8⁺ T cells to cytokine deficiency. *Immunity*, 58(3), 616.

George-Alexander LMM, et al. (2025) G9a controls plasma cell differentiation through FOXO1 and ETS1 binding site regulatory networks. *Journal of immunology* (Baltimore, Md. : 1950).

Yu ZY, et al. (2025) Roles of blood monocytes carrying TREM2R47H mutation in pathogenesis of Alzheimer's disease and its therapeutic potential in APP/PS1 mice. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(2), e14402.

Lombroso SI, et al. (2025) Microglia replacement by peripheral delivery of CSF1R inhibitor-resistant hematopoietic cells. *Molecular therapy : the journal of the American Society of Gene Therapy*.