

Resource Summary Report

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B6.SJL-Ptprc^a Pepc/BoyJ

RRID:IMSR_JAX:002014

Type: Organism

Proper Citation

RRID:IMSR_JAX:002014

Organism Information

URL: <https://www.jax.org/strain/002014>

Proper Citation: RRID:IMSR_JAX:002014

Description: Mus musculus with name B6.SJL-Ptprc^a Pepc/BoyJ from IMSR.

Species: Mus musculus

Synonyms: B6.SJL-Ptprc [Pep3/BoyJ](#). [Pep Boy](#)

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

Affected Gene: peptidase C|protein tyrosine phosphatase receptor type C

Genomic Alteration: b variant|a variant

Catalog Number: JAX:002014

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.SJL-Ptprc^a Pepc/BoyJ

Record Creation Time: 20250513T053628+0000

Record Last Update: 20260801T050333+0000

Ratings and Alerts

- Used for genotyping by the Human Islet Research Network community. Contact(s): Seung Kim, Simona Chera, Pedro Herrera, Charles Chang - Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for B6.SJL-Ptprc^a Pepc/**BoyJ**.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 1437 mentions in open access literature.

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

Mitchell-Flack M, et al. (2026) The ionotropic AMPA receptor contributes to autoimmunity via altered regulatory T cell differentiation. *iScience*, 29(1), 114267.

Meitei HT, et al. (2026) CCL20-CCR6 signaling alters the metabolic reprogramming to promote the pathogenic Th17 cell differentiation. *iScience*, 29(1), 114385.

Bartram J, et al. (2026) Activation of a branched-chain amino acid rheostat restores replication-dependent hematopoietic stem cell fitness. *Cell stem cell*.

Hill RZ, et al. (2026) Renal PIEZO2 is an essential regulator of renin. *Cell*, 189(1), 161.

Verwaerde S, et al. (2026) Innate type 2 lymphocytes trigger an inflammatory switch in alveolar macrophages. *Immunity*, 59(1), 60.

Castelli S, et al. (2026) IL-9 signaling redirects CAR T cell fate toward CD8+ memory and CD4+ cycling states, enhancing antitumor efficacy. *Immunity*, 59(1), 195.

Avanessian SC, et al. (2026) IL2/IL15 Signaling Induces NK Cell Production of FLT3LG, Augmenting Anti-PD-1 Immunotherapy. *Cancer immunology research*, 14(1), 122.

Zitti B, et al. (2026) Positioning and reversible suppression of CCR7+ dendritic cells in perivascular tumor niches shape cancer immunity. *Immunity*, 59(1), 161.

Huang F, et al. (2026) Nat10-mediated ac4C epitranscriptomics orchestrates hematopoietic stem/progenitor cell fate determination via translation control. *Science advances*, 12(2), eady0301.

Goel P, et al. (2025) The acute myeloid leukemia microenvironment impairs neutrophil maturation and function through NF- κ B signaling. *Blood*, 146(14), 1707.

Yogo T, et al. (2025) Protocol for noninvasive imaging of hematopoietic reconstitution in live mice using Akaluc bioluminescence. *STAR protocols*, 6(3), 104072.

Tosa I, et al. (2025) BMP-2 generates a functional bone marrow niche by inducing the differentiation of local mesenchymal cells into CAR cells. *Blood advances*, 9(14), 3598.

Izzy S, et al. (2025) Nasal anti-CD3 monoclonal antibody ameliorates traumatic brain injury, enhances microglial phagocytosis and reduces neuroinflammation via IL-10-dependent Treg-microglia crosstalk. *Nature neuroscience*, 28(3), 499.

Konturek-Ciesla A, et al. (2025) A non-genotoxic stem cell therapy boosts lymphopoiesis and averts age-related blood diseases in mice. *Nature communications*, 16(1), 5129.

Yogo T, et al. (2025) Quantitative phase imaging with temporal kinetics predicts hematopoietic stem cell diversity. *Nature communications*, 16(1), 6496.

Hildebrand JA, et al. (2025) Severe malaria enforces short-lived effector cell differentiation but does not prevent effective secondary responses by memory CD8 T cells. *PLoS pathogens*, 21(3), e1012993.

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.

Nagaretnam I, et al. (2025) Granulomatous inflammatory responses are elicited in the liver of PD-1 knockout mice by de novo genome mutagenesis. *Discovery immunology*, 4(1), kyae018.

Forgioni A, et al. (2025) Anti-Inflammatory Effects of Ex Vivo-Generated Donor Antigen-Specific Immunomodulatory Cells on Pancreatic Islet Transplantation. *Cell transplantation*, 34, 9636897251317887.

Wang Q, et al. (2025) Loss-of-function mutations in PLD4 lead to systemic lupus erythematosus. *Nature*, 647(8089), 498.