

Resource Summary Report

Generated by [NIF](#) on Aug 19, 2026

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: 20260815T050537+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 1511 mentions in open access literature.

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

Feng Z, et al. (2026) Tmem110 regulates the conformation of TRPML1 to maintain endolysosomal homeostasis and prevent mitochondrial DNA leakage and pathological self-DNA processing. Nature communications, 17(1), 1678.

Moreno SG, et al. (2026) Heritable ER stress impairs mitochondrial metabolism and maintenance of hematopoietic stem cells after low-dose irradiation. iScience, 29(2), 114738.

Wang Q, et al. (2026) Transient mechanical activation of the Piezo1 channel facilitates ex vivo expansion of hematopoietic stem cells. Cell research, 36(4), 272.

Shankar A, et al. (2026) In vivo CRISPR screening identifies SAGA complex members as key regulators of hematopoiesis. Nature communications, 17(1), 1756.

Lv Z, et al. (2026) Nonthermal radiofrequency radiation promotes hematopoietic stem and progenitor cells function by regulating Ca²⁺ efflux. Stem cell research & therapy, 17(1).

Kehm H, et al. (2026) Dissection of the T cell infiltrate in mouse pancreatic tumors reveals an extensive and diverse tumor-reactive T cell repertoire. Science advances, 12(15), eadr6132.

Mochizuki-Kashio M, et al. (2026) Hematopoietic stem and progenitor cell hierarchy is established by thrombopoietin-driven neonatal hematopoiesis. Stem cell reports, 21(4), 102865.

Chen HH, et al. (2026) CD38 endows local antigen-specific Treg cells with stress resilience for control of compartmentalized CNS inflammation. Nature immunology, 27(3), 516.

Yagel G, et al. (2026) Tumor-antigen-independent targeting of solid tumors by armored macrophage-directed anti-TREM2 CAR T cells. Cancer cell, 44(3), 519.

Kim PG, et al. (2026) Metabolic control of innate immune activation in TET2-mutant clonal hematopoiesis. *Cell chemical biology*, 33(2), 183.

Lin SC, et al. (2026) MyD88 signaling in myeloid cells induces gastrointestinal tract injury and systemic inflammation after West Nile virus infection. *Cell reports*, 45(1), 116852.

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*.

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

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*.

Budinich KA, et al. (2026) RNA reinforces condensate nucleation on chromatin to amplify oncogenic transcription. *Molecular cell*, 86(14), 2777.

Fan H, et al. (2026) Maternal trans-vaccenic acid shapes neonatal T cell development and early-life immune imprinting. *Science (New York, N.Y.)*, 392(6804), eaea4041.

Schmiechen ZC, et al. (2026) Treg cells promote immunotherapy-induced immune evasion by restraining CD4 T cell control of MHC-I-deficient metastatic pancreatic cancer. *Science immunology*, 11(120), eadz4302.

Nair U, et al. (2026) CRISPR-mediated precise large fragment insertion in zygotes enables rapid generation of humanized immunoglobulin heavy-chain mice. *Immunity*.