

Resource Summary Report

Generated by [NIF](#) on Sep 21, 2026

B6.129S4-Pten^{tm1Hwu/J}

RRID:IMSR_JAX:006440

Type: Organism

Proper Citation

RRID:IMSR_JAX:006440

Organism Information

URL: <https://www.jax.org/strain/006440>

Proper Citation: RRID:IMSR_JAX:006440

Description: Mus musculus with name B6.129S4-Pten^{tm1Hwu/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: phosphatase and tensin homolog; mutant strain|congenic strain: Pten

Affected Gene: phosphatase and tensin homolog

Genomic Alteration: targeted mutation 1; Hong Wu

Catalog Number: JAX:006440

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S4-Pten^{tm1Hwu/J}

Record Creation Time: 20250513T053656+0000

Record Last Update: 20260919T054846+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S4-Pten^{tm1Hwu/J}.

No alerts have been found for B6.129S4-Pten^{tm1Hwu/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 67 mentions in open access literature.

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

Ji Y, et al. (2026) Serotonin Modulates Lineage Plasticity in Neuroendocrine Prostate Cancer via Epigenetic Reprogramming. *Cancer discovery*, 16(4), 760.

Somasundaram P, et al. (2026) Coordinated stimulation of axon regenerative and neurodegenerative transcriptional programs by ATF4 following optic nerve injury. *eLife*, 12.

Geni?can S, et al. (2026) Enhancing neural stem cell integration in the injured spinal cord through targeted PTEN modulation. *Neural regeneration research*, 21(4), 1586.

Zhou L, et al. (2026) p21-Positive Senescent Stromal Cells Promote Prostate Cancer Immune Suppression and Progression That Can Be Reversed by Senolytic Therapy. *Cancer discovery*, 16(3), 571.

Friedman CA, et al. (2025) Synergistic Inhibition of Prostate Cancer Progression in Mice With a Combination of Curcumin and Ursolic Acid in the Diet. *Molecular carcinogenesis*, 64(9), 1487.

Teng M, et al. (2025) Circular RMST cooperates with lineage-driving transcription factors to govern neuroendocrine transdifferentiation. *Cancer cell*, 43(5), 891.

Hanna J, et al. (2025) Glycolytic flux controls retinal progenitor cell differentiation via regulating Wnt signaling. *eLife*, 13.

Shafer AM, et al. (2025) Immunocompetent Murine Models Recapitulate the Heterogeneous Tumor-Immune Microenvironment of Human Liposarcoma. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 31(23), 5078.

Larsen RK, et al. (2025) Non-cell-autonomous tumor promotion in DICER1 cancer predisposition. *Developmental cell*.

Hu K, et al. (2025) Development and Application of MiMouse, a Comprehensive Genomic Profiling Panel for Credentialing Mouse Tumor Models. *Cancer research communications*, 5(10), 1910.

Molinaro G, et al. (2024) Female-specific dysfunction of sensory neocortical circuits in a mouse model of autism mediated by mGluR5 and estrogen receptor ?. *Cell reports*, 43(4), 114056.

- Al Abed AS, et al. (2024) Parvalbumin interneuron activity in autism underlies susceptibility to PTSD-like memory formation. *iScience*, 27(5), 109747.
- Liao K, et al. (2024) Critical roles of the miR-17-92 family in thymocyte development, leukemogenesis, and autoimmunity. *Cell reports*, 43(6), 114261.
- Drake AW, et al. (2024) Somatostatin interneuron fate-mapping and structure in a Pten knockout model of epilepsy. *Frontiers in cellular neuroscience*, 18, 1474613.
- Tsai PJ, et al. (2024) PTEN acts as a crucial inflammatory checkpoint controlling TLR9/IL-6 axis in B cells. *iScience*, 27(7), 110388.
- Touahri Y, et al. (2024) Pten regulates endocytic trafficking of cell adhesion and Wnt signaling molecules to pattern the retina. *Cell reports*, 43(4), 114005.
- Pakula H, et al. (2024) Distinct mesenchymal cell states mediate prostate cancer progression. *Nature communications*, 15(1), 363.
- Zhang Y, et al. (2024) Elevating PLK1 overcomes BETi resistance in prostate cancer via triggering BRD4 phosphorylation-dependent degradation in mitosis. *Cell reports*, 43(7), 114431.
- Hsu WL, et al. (2023) Identification of Ndfip1 as a novel negative regulator for spatial memory formation associated with increased ubiquitination of Beclin 1 and PTEN. *PloS one*, 18(4), e0283908.
- Kim S, et al. (2023) Disruptive lysosomal-metabolic signaling and neurodevelopmental deficits that precede Purkinje cell loss in a mouse model of Niemann-Pick Type-C disease. *Scientific reports*, 13(1), 5665.