

Resource Summary Report

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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: 20260725T044408+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 64 mentions in open access literature.

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

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.

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.

Tsai PJ, et al. (2024) PTEN acts as a crucial inflammatory checkpoint controlling TLR9/IL-6 axis in B cells. iScience, 27(7), 110388.

Drake AW, et al. (2024) Somatostatin interneuron fate-mapping and structure in a Pten knockout model of epilepsy. *Frontiers in cellular neuroscience*, 18, 1474613.

Pakula H, et al. (2024) Distinct mesenchymal cell states mediate prostate cancer progression. *Nature communications*, 15(1), 363.

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.

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.

E Y, et al. (2023) The relationship between pepsinogen C and gastric carcinogenesis: a transgene and population study. *BMC cancer*, 23(1), 520.

Cheung SKK, et al. (2023) Neuropathological signatures revealed by transcriptomic and proteomic analysis in Pten-deficient mouse models. *Scientific reports*, 13(1), 6763.

Stewart AN, et al. (2023) PTEN knockout using retrogradely transported AAVs restores locomotor abilities in both acute and chronic spinal cord injury. *bioRxiv : the preprint server for biology*.