

# Resource Summary Report

Generated by T1D on Sep 17, 2026

## B6.129-Prdm16<sup>tm1.1Brsp/J</sup>

RRID:IMSR\_JAX:024992

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:024992

### Organism Information

**URL:** <https://www.jax.org/strain/024992>

**Proper Citation:** RRID:IMSR\_JAX:024992

**Description:** Mus musculus with name B6.129-Prdm16<sup>tm1.1Brsp/J</sup> from IMSR.

**Species:** Mus musculus

**Notes:** gene symbol note: PR domain containing 16; mutant strain|congenic strain: Prdm16

**Affected Gene:** PR domain containing 16

**Genomic Alteration:** targeted mutation 1.1; Bruce M Spiegelman

**Catalog Number:** JAX:024992

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** sperm

**Organism Name:** B6.129-Prdm16<sup>tm1.1Brsp/J</sup>

**Record Creation Time:** 20250513T053752+0000

**Record Last Update:** 20260912T060535+0000

### Ratings and Alerts

No rating or validation information has been found for B6.129-Prdm16<sup>tm1.1Brsp/J</sup>.

No alerts have been found for B6.129-Prdm16<sup>tm1.1Brsp/J</sup>.

---

## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

---

## Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Diaz-Marin R, et al. (2026) Adipocytes influence choroidal neovascularization via PRDM16. EMBO molecular medicine, 18(6), 2379.

Tan JME, et al. (2025) PRDM16 controls smooth muscle cell fate in atherosclerosis. bioRxiv : the preprint server for biology.

Tan JME, et al. (2025) PRDM16 regulates smooth muscle cell identity and atherosclerotic plaque composition. Nature cardiovascular research, 4(11), 1573.

Song Q, et al. (2023) mTORC1 inhibition uncouples lipolysis and thermogenesis in white adipose tissue to contribute to alcoholic liver disease. Hepatology communications, 7(3), e0059.

He H, et al. (2023) PRDM3/16 Regulate Chromatin Accessibility Required for NKX2-1 Mediated Alveolar Epithelial Differentiation and Function. bioRxiv : the preprint server for biology.

Adachi Y, et al. (2022) Beiging of perivascular adipose tissue regulates its inflammation and vascular remodeling. Nature communications, 13(1), 5117.

Kang JO, et al. (2022) A cardiac-null mutation of Prdm16 causes hypotension in mice with cardiac hypertrophy via increased nitric oxide synthase 1. PloS one, 17(7), e0267938.

Biferali B, et al. (2021) Prdm16-mediated H3K9 methylation controls fibro-adipogenic progenitors identity during skeletal muscle repair. Science advances, 7(23).

Chi J, et al. (2021) Early postnatal interactions between beige adipocytes and sympathetic neurites regulate innervation of subcutaneous fat. eLife, 10.

Wang W, et al. (2019) A PRDM16-Driven Metabolic Signal from Adipocytes Regulates Precursor Cell Fate. Cell metabolism, 30(1), 174.