

# Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

## B6;129S-Pkm<sup>tm1.1Mgvh</sup>/J

RRID:IMSR\_JAX:024048

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:024048

### Organism Information

**URL:** <https://www.jax.org/strain/024048>

**Proper Citation:** RRID:IMSR\_JAX:024048

**Description:** Mus musculus with name B6;129S-Pkm<sup>tm1.1Mgvh</sup>/J from IMSR.

**Species:** Mus musculus

**Notes:** gene symbol note: pyruvate kinase; muscle; mutant stock: Pkm

**Affected Gene:** pyruvate kinase; muscle

**Genomic Alteration:** targeted mutation 1.1; Matthew G Vander Heiden

**Catalog Number:** JAX:024048

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** sperm

**Organism Name:** B6;129S-Pkm<sup>tm1.1Mgvh</sup>/J

**Record Creation Time:** 20250513T053749+0000

**Record Last Update:** 20260808T050952+0000

### Ratings and Alerts

No rating or validation information has been found for B6;129S-Pkm<sup>tm1.1Mgvh</sup>/J.

No alerts have been found for B6;129S-Pkm<sup>tm1.1Mgvh</sup>/J.

---

## Data and Source Information

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

**Source Database:** JAX Mice and Services

---

## Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Liu Y, et al. (2024) Imbalance in Glucose Metabolism Regulates the Transition of Microglia from Homeostasis to Disease-Associated Microglia Stage 1. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(20).

Zhang Y, et al. (2024) Metabolic switch regulates lineage plasticity and induces synthetic lethality in triple-negative breast cancer. Cell metabolism, 36(1), 193.

Aguiar CF, et al. (2023) Tissue-specific metabolic profile drives iNKT cell function during obesity and liver injury. Cell reports, 42(1), 112035.

Foster HR, et al. (2022) ??-cell deletion of the PKm1 and PKm2 isoforms of pyruvate kinase in mice reveals their essential role as nutrient sensors for the KATP channel. eLife, 11.

Xie M, et al. (2016) PKM2-dependent glycolysis promotes NLRP3 and AIM2 inflammasome activation. Nature communications, 7, 13280.