

Resource Summary Report

Generated by [NIF](#) on Sep 6, 2026

B6;129S-Pkm^{tm1.1Mgvh}/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^{tm1.1Mgvh}/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^{tm1.1Mgvh}/J

Record Creation Time: 20250513T053749+0000

Record Last Update: 20260905T044529+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Pkm^{tm1.1Mgvh}/J.

No alerts have been found for B6;129S-Pkm^{tm1.1Mgvh}/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 [NIF](#) .

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.