

Resource Summary Report

Generated by [Kravitz](#) on Sep 17, 2026

B6N.129S-Pnpla2^{tm1Eek}/J

RRID:IMSR_JAX:024278

Type: Organism

Proper Citation

RRID:IMSR_JAX:024278

Organism Information

URL: <https://www.jax.org/strain/024278>

Proper Citation: RRID:IMSR_JAX:024278

Description: Mus musculus with name B6N.129S-Pnpla2^{tm1Eek}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: patatin-like phospholipase domain containing 2; mutant strain|congenic strain: Pnpla2

Affected Gene: patatin-like phospholipase domain containing 2

Genomic Alteration: targeted mutation 1; Erin E Kershaw

Catalog Number: JAX:024278

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6N.129S-Pnpla2^{tm1Eek}/J

Record Creation Time: 20250513T053750+0000

Record Last Update: 20260912T060533+0000

Ratings and Alerts

No rating or validation information has been found for B6N.129S-Pnpla2^{tm1Eek}/J.

No alerts have been found for B6N.129S-Pnpla2^{tm1Eek}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Chen H, et al. (2025) Intermittent fasting triggers interorgan communication to suppress hair follicle regeneration. *Cell*, 188(1), 157.

Tai KY, et al. (2025) Adipocyte lipolysis activates epithelial stem cells for hair regeneration through fatty acid metabolic signaling. *Cell metabolism*, 37(11), 2202.

Peña de la Sancha P, et al. (2025) Lipolysis-derived fatty acids are needed for homeostatic control of sterol element-binding protein-1c driven hepatic lipogenesis. *Communications biology*, 8(1), 588.

Xie X, et al. (2024) Adipose Triglyceride Lipase-Mediated Adipocyte Lipolysis Exacerbates Acute Pancreatitis Severity in Mouse Models and Patients. *The American journal of pathology*, 194(8), 1494.

Lin TY, et al. (2023) Epinephrine inhibits PI3K? via the Hippo kinases. *Cell reports*, 42(12), 113535.

Stephenson EJ, et al. (2022) Chronic intake of high dietary sucrose induces sexually dimorphic metabolic adaptations in mouse liver and adipose tissue. *Nature communications*, 13(1), 6062.

Gong Z, et al. (2022) Lipid-laden lung mesenchymal cells foster breast cancer metastasis via metabolic reprogramming of tumor cells and natural killer cells. *Cell metabolism*, 34(12), 1960.

Abe I, et al. (2022) Lipolysis-derived linoleic acid drives beige fat progenitor cell proliferation. *Developmental cell*, 57(23), 2623.

Caputa G, et al. (2022) Intracellular infection and immune system cues rewire adipocytes to acquire immune function. *Cell metabolism*, 34(5), 747.

Yue F, et al. (2022) Lipid droplet dynamics regulate adult muscle stem cell fate. *Cell reports*, 38(3), 110267.

Li P, et al. (2020) Lung mesenchymal cells elicit lipid storage in neutrophils that fuel breast cancer lung metastasis. *Nature immunology*, 21(11), 1444.

Paoletta LM, et al. (2020) mTORC1 restrains adipocyte lipolysis to prevent systemic hyperlipidemia. *Molecular metabolism*, 32, 136.

Raje V, et al. (2020) Adipocyte lipolysis drives acute stress-induced insulin resistance. Scientific reports, 10(1), 18166.

Shook BA, et al. (2020) Dermal Adipocyte Lipolysis and Myofibroblast Conversion Are Required for Efficient Skin Repair. Cell stem cell, 26(6), 880.

Simcox J, et al. (2017) Global Analysis of Plasma Lipids Identifies Liver-Derived Acylcarnitines as a Fuel Source for Brown Fat Thermogenesis. Cell metabolism, 26(3), 509.

Schreiber R, et al. (2017) Cold-Induced Thermogenesis Depends on ATGL-Mediated Lipolysis in Cardiac Muscle, but Not Brown Adipose Tissue. Cell metabolism, 26(5), 753.