

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 30, 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: 20260829T045103+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 [SPARC SAWG](#) .

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.

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

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

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.