

Resource Summary Report

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

STOCK Slc2a1^{tm1.1Stma}/AbelJ

RRID:IMSR_JAX:031871

Type: Organism

Proper Citation

RRID:IMSR_JAX:031871

Organism Information

URL: <https://www.jax.org/strain/031871>

Proper Citation: RRID:IMSR_JAX:031871

Description: Mus musculus with name STOCK Slc2a1^{tm1.1Stma}/AbelJ from IMSR.

Species: Mus musculus

Synonyms: B6.129S1(Cg)-Slc2a1/AbelJ

Notes: gene symbol note: solute carrier family 2 (facilitated glucose transporter); member 1; mutant stock: Slc2a1

Affected Gene: solute carrier family 2 (facilitated glucose transporter); member 1

Genomic Alteration: targeted mutation 1.1; Steven M Anderson

Catalog Number: JAX:031871

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: STOCK Slc2a1^{tm1.1Stma}/AbelJ

Record Creation Time: 20250513T053825+0000

Record Last Update: 20260912T060559+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Slc2a1^{tm1.1Stma}/AbelJ.

No alerts have been found for STOCK Slc2a1^{tm1.1Stma}/AbelJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Karakousi T, et al. (2026) IFN γ -dependent metabolic reprogramming restrains an immature, pro-metastatic lymphatic state in melanoma. *Cancer cell*, 44(4), 792.

Daniele LL, et al. (2026) Selective deletion of Slc2a1 from the RPE reveals that rods but not cones depend on glucose transport across the outer blood-retinal barrier. *iScience*, 29(1), 114450.

Wang X, et al. (2026) Astrocytic glucose metabolism regulates the survival of newborn hippocampal neurons in the adult brain. *Neuron*.

Ugolini A, et al. (2025) Functional Reprogramming of Neutrophils within the Brain Tumor Microenvironment by Hypoxia-Driven Histone Lactylation. *Cancer discovery*, 15(6), 1270.

De Leo A, et al. (2024) Glucose-driven histone lactylation promotes the immunosuppressive activity of monocyte-derived macrophages in glioblastoma. *Immunity*, 57(5), 1105.

Subudhi I, et al. (2024) Metabolic coordination between skin epithelium and type 17 immunity sustains chronic skin inflammation. *Immunity*, 57(7), 1665.

Liu S, et al. (2023) A tissue injury sensing and repair pathway distinct from host pathogen defense. *Cell*, 186(10), 2127.

Ancey PB, et al. (2021) GLUT1 Expression in Tumor-Associated Neutrophils Promotes Lung Cancer Growth and Resistance to Radiotherapy. *Cancer research*, 81(9), 2345.