

# Resource Summary Report

Generated by [kravitz2](#) on Sep 16, 2026

## STOCK Slc2a1<sup>tm1.1Stma</sup>/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<sup>tm1.1Stma</sup>/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<sup>tm1.1Stma</sup>/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<sup>tm1.1Stma</sup>/AbelJ.

No alerts have been found for STOCK Slc2a1<sup>tm1.1Stma</sup>/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 [kravitz2](#) .

Karakousi T, et al. (2026) IFN $\gamma$ -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.