

# Resource Summary Report

Generated by [NIF](#) on Aug 31, 2026

## B6;129S-Mcu<sup>tm1.1Jmol/J</sup>

RRID:IMSR\_JAX:029817

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:029817

### Organism Information

**URL:** <https://www.jax.org/strain/029817>

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**Description:** Mus musculus with name B6;129S-Mcu<sup>tm1.1Jmol/J</sup> from IMSR.

**Species:** Mus musculus

**Notes:** gene symbol note: mitochondrial calcium uniporter; mutant stock: Mcu

**Affected Gene:** mitochondrial calcium uniporter

**Genomic Alteration:** targeted mutation 1.1; Jeffery Molkentin

**Catalog Number:** JAX:029817

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** sperm

**Organism Name:** B6;129S-Mcu<sup>tm1.1Jmol/J</sup>

**Record Creation Time:** 20250513T053811+0000

**Record Last Update:** 20260829T045118+0000

### Ratings and Alerts

No rating or validation information has been found for B6;129S-Mcu<sup>tm1.1Jmol/J</sup>.

No alerts have been found for B6;129S-Mcu<sup>tm1.1Jmol/J</sup>.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Deb A, et al. (2024) Conditional ablation of MCU exacerbated cardiac pathology in a genetic arrhythmic model of CPVT. Journal of molecular and cellular cardiology plus, 10.

Ashok D, et al. (2023) Mitochondrial membrane potential instability on reperfusion after ischemia does not depend on mitochondrial Ca<sup>2+</sup> uptake. The Journal of biological chemistry, 299(6), 104708.

Díaz-García CM, et al. (2021) The distinct roles of calcium in rapid control of neuronal glycolysis and the tricarboxylic acid cycle. eLife, 10.

Seegren PV, et al. (2020) Mitochondrial Ca<sup>2+</sup> Signaling Is an Electrometabolic Switch to Fuel Phagosome Killing. Cell reports, 33(8), 108411.

Bisbach CM, et al. (2020) Mitochondrial Calcium Uniporter (MCU) deficiency reveals an alternate path for Ca<sup>2+</sup> uptake in photoreceptor mitochondria. Scientific reports, 10(1), 16041.