Resource Summary Report

Generated by Kravitz on Sep 21, 2026

B6;129S-Mcu$^{tm1.1Jmol}$/J

RRID:IMSR_JAX:029817
Type: Organism

Proper Citation

RRID:IMSR_JAX:029817

Organism Information

URL: https://www.jax.org/strain/029817

Proper Citation: RRID:IMSR_JAX:029817

Description: Mus musculus with name B6;129S-Mcu$^{tm1.1Jmol}$/J 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$^{tm1.1Jmol}$/J

Record Creation Time: 20250513T053811+0000

Record Last Update: 20260919T054955+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Mcu$^{tm1.1Jmol}$/J.

No alerts have been found for B6;129S-Mcu$^{tm1.1Jmol}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at Kravitz .

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 Ca2+ 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 Ca2+ 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 Ca2+ uptake in photoreceptor mitochondria. Scientific reports, 10(1), 16041.