

Resource Summary Report

Generated by SPARC SAWG on Aug 8, 2026

STOCK Myl1^{tm1}(cre)Sjb/J

RRID:IMSR_JAX:024713

Type: Organism

Proper Citation

RRID:IMSR_JAX:024713

Organism Information

URL: <https://www.jax.org/strain/024713>

Proper Citation: RRID:IMSR_JAX:024713

Description: Mus musculus with name STOCK Myl1^{tm1}(cre)Sjb/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: myosin; light polypeptide 1|; mutant stock: Myl1|

Affected Gene: myosin; light polypeptide 1|

Genomic Alteration: targeted mutation 1; Steven J Burden

Catalog Number: JAX:024713

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: STOCK Myl1^{tm1}(cre)Sjb/J

Record Creation Time: 20250513T053752+0000

Record Last Update: 20260808T050954+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Myl1^{tm1}(cre)Sjb/J.

No alerts have been found for STOCK Myl1^{tm1}(cre)Sjb/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Nappi A, et al. (2026) Pik3ip1 mediates thyroid hormone-dependent regulation of the PI3K/Akt/mTOR axis in muscle atrophy. *Molecular metabolism*, 111, 102413.

Vanhoutte D, et al. (2024) Thbs1 regulates skeletal muscle mass in a TGF β -Smad2/3-ATF4-dependent manner. *Cell reports*, 43(5), 114149.

Aby K, et al. (2023) ProBDNF Upregulation in Murine Hind Limb Ischemia Reperfusion Injury: A Driver of Inflammation. *Biology*, 12(7).

Yasuda T, et al. (2023) Mitochondrial dynamics define muscle fiber type by modulating cellular metabolic pathways. *Cell reports*, 42(5), 112434.

Southwell N, et al. (2023) A coordinated multiorgan metabolic response contributes to human mitochondrial myopathy. *EMBO molecular medicine*, e16951.

Song MY, et al. (2022) Sirt6 reprograms myofibers to oxidative type through CREB-dependent Sox6 suppression. *Nature communications*, 13(1), 1808.

Tang Y, et al. (2022) TIGAR deficiency enhances skeletal muscle thermogenesis by increasing neuromuscular junction cholinergic signaling. *eLife*, 11.

Yao T, et al. (2022) Obese Skeletal Muscle-Expressed Interferon Regulatory Factor 4 Transcriptionally Regulates Mitochondrial Branched-Chain Aminotransferase Reprogramming Metabolome. *Diabetes*, 71(11), 2256.

Zhu X, et al. (2020) IRF4 in Skeletal Muscle Regulates Exercise Capacity via PTG/Glycogen Pathway. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 7(19), 2001502.

Gao H, et al. (2020) UCHL1 regulates oxidative activity in skeletal muscle. *PloS one*, 15(11), e0241716.

Kumar A, et al. (2020) SWELL1 regulates skeletal muscle cell size, intracellular signaling, adiposity and glucose metabolism. *eLife*, 9.

Gao H, et al. (2019) UCHL1 regulates muscle fibers and mTORC1 activity in skeletal muscle. *Life sciences*, 233, 116699.