

Resource Summary Report

Generated by [dkNET](#) on Aug 11, 2026

C57BL/6J-Samd4^{m1Btlr}/Mmmh

RRID:MMRRC_037155-MU

Type: Organism

Proper Citation

RRID:MMRRC_037155-MU

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=37155

Proper Citation: RRID:MMRRC_037155-MU

Description: Mus musculus with name C57BL/6J-Samd4^{m1Btlr}/Mmmh from MMRRC.

Species: Mus musculus

Notes: Research areas: Diabetes, Metabolism, Obesity, Research Tools; Mutation Type: chemically induced mutation ; Collection: Beutler Mutagenetix

Phenotype: kyphosis [MP:0000160] increased circulating LDL cholesterol level [MP:0000182] decreased circulating HDL cholesterol level [MP:0000186] muscle hypoplasia [MP:0000734] myopathy [MP:0000751] abnormal skeletal muscle morphology [MP:0000759] decreased body length [MP:0001258] decreased body weight [MP:0001262] hypoactivity [MP:0001402] male infertility [MP:0001925] female infertility [MP:0001926] abnormal glucose homeostasis [MP:0002078] premature death [MP:0002083] hepatic steatosis [MP:0002628] decreased circulating insulin level [MP:0002727] increased insulin sensitivity [MP:0002891] decreased insulin secretion [MP:0003059] abnormal muscle fiber morphology [MP:0004087] decreased circulating cholesterol level [MP:0005179] increased oxygen consumption [MP:0005289] abnormal body composition [MP:0005451] decreased circulating glucose level [MP:0005560] decreased susceptibility to diet-induced obesity [MP:0005659] decreased body mass index [MP:0006086] increased carbon dioxide production [MP:0008963] abnormal white fat cell morphology [MP:0009117] decreased white fat cell size [MP:0009133] decreased gonadal fat pad weight [MP:0009283] decreased inguinal fat pad weight [MP:0009293] centrally nucleated skeletal muscle fibers [MP:0009404] decreased total body fat amount [MP:0010025] decreased skeletal muscle glycogen level [MP:0010399] increased subcutaneous adipose tissue amount [MP:0010934]

Affected Gene: Samd4

Catalog Number: 037155-MU

Background: chemically induced mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:24799716](#)

Alternate IDs: MMRRC_37155-MU, MMRRC_037155, MMRRC_37155

Organism Name: C57BL/6J-*Samd4*^{m1Btlr}/Mmmh

Record Creation Time: 20230308T055150+0000

Record Last Update: 20260808T124123+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6J-*Samd4*^{m1Btlr}/Mmmh.

No alerts have been found for C57BL/6J-*Samd4*^{m1Btlr}/Mmmh.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We have not found any literature mentions for this resource.