

Resource Summary Report

Generated by [NIF](#) on Aug 9, 2026

C57BL/6-Tg(Ckm-Ppargc1a)31Brsp/J

RRID:IMSR_JAX:008231

Type: Organism

Proper Citation

RRID:IMSR_JAX:008231

Organism Information

URL: <https://www.jax.org/strain/008231>

Proper Citation: RRID:IMSR_JAX:008231

Description: Mus musculus with name C57BL/6-Tg(Ckm-Ppargc1a)31Brsp/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: creatine kinase; muscle|peroxisome proliferative activated receptor; gamma; coactivator 1 alpha|transgene insertion 31; Bruce M Spiegelman; coisogenic strain: Ckm|Ppargc1a|Tg(Ckm-Ppargc1a)31Brsp

Affected Gene: creatine kinase; muscle|peroxisome proliferative activated receptor; gamma; coactivator 1 alpha|transgene insertion 31; Bruce M Spiegelman

Genomic Alteration: transgene insertion 31; Bruce M Spiegelman

Catalog Number: JAX:008231

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: C57BL/6-Tg(Ckm-Ppargc1a)31Brsp/J

Record Creation Time: 20250513T053707+0000

Record Last Update: 20260808T050912+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Tg(Ckm-Ppargc1a)31Brsp/J.

No alerts have been found for C57BL/6-Tg(Ckm-Ppargc1a)31Brsp/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Karasawa T, et al. (2025) Skeletal Muscle PGC-1? Remodels Mitochondrial Phospholipidome but Does Not Alter Energy Efficiency for ATP Synthesis. Journal of cachexia, sarcopenia and muscle, 16(5), e70090.

Yin X, et al. (2025) Paternal exercise confers endurance capacity to offspring through sperm microRNAs. Cell metabolism, 37(11), 2167.

Karasawa T, et al. (2024) Skeletal muscle PGC-1? remodels mitochondrial phospholipidome but does not alter energy efficiency for ATP synthesis. bioRxiv : the preprint server for biology.

Mittenbühler MJ, et al. (2023) Isolation of extracellular fluids reveals novel secreted bioactive proteins from muscle and fat tissues. Cell metabolism, 35(3), 535.

Karlsson L, et al. (2021) Constitutive PGC-1? Overexpression in Skeletal Muscle Does Not Contribute to Exercise-Induced Neurogenesis. Molecular neurobiology, 58(4), 1465.

Luo L, et al. (2019) HDAC4 Controls Muscle Homeostasis through Deacetylation of Myosin Heavy Chain, PGC-1?, and Hsc70. Cell reports, 29(3), 749.

Neinast MD, et al. (2019) Quantitative Analysis of the Whole-Body Metabolic Fate of Branched-Chain Amino Acids. Cell metabolism, 29(2), 417.