Resource Summary Report

Generated by RRID on Jul 29, 2026

C57BL/10J

RRID:IMSR_JAX:000665
Type: Organism

Proper Citation

RRID:IMSR_JAX:000665

Organism Information

URL: https://www.jax.org/strain/000665

Proper Citation: RRID:IMSR_JAX:000665

Description: Mus musculus with name C57BL/10J from IMSR.

Species: Mus musculus

Synonyms: B10. Black 10 J. C57BL10. Black 10

Notes: gene symbol note: microwave induced increase in complement receptor B cells|purinergic receptor P2X; ligand-gated ion channel; 7|beta-2 microglobulin|cytochrome c oxidase subunit 7A2 like|MX dynamin-like GTPase 1; inbred strain: Micrl|P2rx7|B2m|Cox7a2l|Mx1

Affected Gene: microwave induced increase in complement receptor B cells|purinergic receptor P2X; ligand-gated ion channel; 7|beta-2 microglobulin|cytochrome c oxidase subunit 7A2 like|MX dynamin-like GTPase 1

Genomic Alteration: non-responder|rs48804829 SNP allele with the T variant|b variant|short|myxovirus susceptibility 1

Catalog Number: JAX:000665

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/10J

Record Creation Time: 20250513T053620+0000

Record Last Update: 20260725T044328+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/10J.

No alerts have been found for C57BL/10J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 130 mentions in open access literature.

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

Foltz SJ, et al. (2025) Enhanced therapeutic potential of a microdystrophin with an extended C-terminal domain. Molecular therapy. Methods & clinical development, 33(3), 101519.

Ren W, et al. (2025) A tandem repeat atlas for the genome of inbred mouse strains: A genetic variation resource. iScience, 28(11), 113703.

Swan GA, et al. (2024) A conserved element in the first intron of Cd4 has a lineage specific, TCR signal-responsive, canonical enhancer function that matches the timing of cell surface CD4 upregulation required to prevent lineage choice error. Frontiers in immunology, 15, 1469402.

Batti Angulski AB, et al. (2023) Molecular homing and retention of muscle membrane stabilizing copolymers by non-invasive optical imaging??in vivo. Molecular therapy. Methods & clinical development, 28, 162.

Marcadet L, et al. (2023) RANKL Inhibition Reduces Cardiac Hypertrophy in mdx Mice and Possibly in Children with Duchenne Muscular Dystrophy. Cells, 12(11).

Russell AJ, et al. (2023) Modulating fast skeletal muscle contraction protects skeletal muscle in animal models of Duchenne muscular dystrophy. The Journal of clinical investigation, 133(10).

Stearns-Reider KM, et al. (2023) Myoscaffolds reveal laminin scarring is detrimental for stem cell function while sarcospan induces compensatory fibrosis. NPJ Regenerative medicine, 8(1), 16.

Oestereicher MA, et al. (2023) Comprehensive ECG reference intervals in C57BL/6N substrains provide a generalizable guide for cardiac electrophysiology studies in mice. Mammalian genome : official journal of the International Mammalian Genome Society, 34(2), 180.

Uapinyoying P, et al. (2023) Single-cell transcriptomic analysis of the identity and function of fibro/adipogenic progenitors in healthy and dystrophic muscle. iScience, 26(8), 107479.

Khan AH, et al. (2023) Genetic pathways regulating the longitudinal acquisition of cocaine self-administration in a panel of inbred and recombinant inbred mice. Cell reports, 42(8), 112856.

Rahmati M, et al. (2022) Myonuclear permanence in skeletal muscle memory: a systematic review and meta-analysis of human and animal studies. Journal of cachexia, sarcopenia and muscle, 13(5), 2276.

Marksteiner J, et al. (2022) Evidence for a Physiological Role of T-Type Ca Channels in Ventricular Cardiomyocytes of Adult Mice. Membranes, 12(6).

Winter L, et al. (2022) Proteins implicated in muscular dystrophy and cancer are functional constituents of the centrosome. Life science alliance, 5(11).

Miglioranza Scavuzzi B, et al. (2022) The lupus susceptibility allele DRB1*03:01 encodes a disease-driving epitope. Communications biology, 5(1), 751.

Andre AB, et al. (2022) Myxomavirus Serp-1 Protein Ameliorates Inflammation in a Mouse Model of Duchenne Muscular Dystrophy. Biomedicines, 10(5).

Mortazavi M, et al. (2022) SNPs, short tandem repeats, and structural variants are responsible for differential gene expression across C57BL/6 and C57BL/10 substrains. Cell genomics, 2(3).

Yang Y, et al. (2022) Sustained Inflammation Induced by LPS Leads to Tolerable Anorexia and Fat Loss via Tlr4 in Mice. Journal of inflammation research, 15, 5635.

Xu P, et al. (2022) A missense mutation in Kcnc3 causes hippocampal learning deficits in mice. Proceedings of the National Academy of Sciences of the United States of America, 119(31), e2204901119.

Liu L, et al. (2022) Senolytic elimination of senescent macrophages restores muscle stem cell function in severely dystrophic muscle. Aging, 14(19), 7650.

Laghi V, et al. (2022) A User-Friendly Approach for Routine Histopathological and Morphometric Analysis of Skeletal Muscle Using CellProfiler Software. Diagnostics (Basel, Switzerland), 12(3).