Resource Summary Report

Generated by kravitz2 on Aug 23, 2026

NZO/HlLtJ

RRID:IMSR_JAX:002105
Type: Organism

Proper Citation

RRID:IMSR_JAX:002105

Organism Information

URL: https://www.jax.org/strain/002105

Proper Citation: RRID:IMSR_JAX:002105

Description: Mus musculus with name NZO/HlLtJ from IMSR.

Species: Mus musculus

Synonyms: NZO/HlJ. New Zealand Obese. NZO/HILtJ

Notes: gene symbol note: cytochrome c oxidase subunit 7A2 like|latent transforming growth factor beta binding protein 4|phosphatidylcholine transfer protein; inbred strain: Cox7a2l|Ltbp4|Pctp

Affected Gene: cytochrome c oxidase subunit 7A2 like|latent transforming growth factor beta binding protein 4|phosphatidylcholine transfer protein

Genomic Alteration: long|Duchenne modifier 1 resistant|R120H

Catalog Number: JAX:002105

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: NZO/HlLtJ

Record Creation Time: 20250513T053629+0000

Record Last Update: 20260815T050540+0000

Ratings and Alerts

No rating or validation information has been found for NZO/HlLtJ.

No alerts have been found for NZO/HlLtJ.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 17 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Prateek GV, et al. (2026) Longitudinal analysis of body weight reveals homeostatic and adaptive traits linked to lifespan in diversity outbred mice. Nature communications, 17(1), 1689.

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

Murray KE, et al. (2025) Sex and Genotype Affect Mouse Hippocampal Gene Expression in Response to Blast-Induced Traumatic Brain Injury. Molecular neurobiology, 62(8), 9980.

Zhao Y, et al. (2024) Causal network perturbation analysis identifies known and novel type-2 diabetes driver genes. bioRxiv : the preprint server for biology.

Oliveira TY, et al. (2024) Quantitative trait loci mapping provides insights into the genetic regulation of dendritic cell numbers in mouse tissues. Cell reports, 43(6), 114296.

Zeineddine Y, et al. (2023) Genetic diversity modulates the physical and transcriptomic response of skeletal muscle to simulated microgravity in male mice. NPJ microgravity, 9(1), 86.

Emfinger CH, et al. (2023) Novel regulators of islet function identified from genetic variation in mouse islet Ca2+ oscillations. eLife, 12.

Sheppard K, et al. (2022) Stride-level analysis of mouse open field behavior using deep-learning-based pose estimation. Cell reports, 38(2), 110231.

Bachmann AM, et al. (2022) Genetic background and sex control the outcome of high-fat diet feeding in mice. iScience, 25(6), 104468.

Fonseca AH, et al. (2021) Analysis of ultrasonic vocalizations from mice using computer vision and machine learning. eLife, 10.

Keele GR, et al. (2021) Regulation of protein abundance in genetically diverse mouse populations. Cell genomics, 1(1).

Shi W, et al. (2021) Cardiac proteomics reveals sex chromosome-dependent differences between males and females that arise prior to gonad formation. Developmental cell, 56(21), 3019.

Doolittle ML, et al. (2020) Genetic analysis of osteoblast activity identifies Zbtb40 as a regulator of osteoblast activity and bone mass. PLoS genetics, 16(6), e1008805.

Forte E, et al. (2020) Dynamic Interstitial Cell Response during Myocardial Infarction Predicts Resilience to Rupture in Genetically Diverse Mice. Cell reports, 30(9), 3149.

Skelly DA, et al. (2020) Mapping the Effects of Genetic Variation on Chromatin State and Gene Expression Reveals Loci That Control Ground State Pluripotency. Cell stem cell, 27(3), 459.

Skorski M, et al. (2019) Distribution of endogenous gammaretroviruses and variants of the Fv1 restriction gene in individual mouse strains and strain subgroups. PloS one, 14(7), e0219576.

Maida A, et al. (2017) Repletion of branched chain amino acids reverses mTORC1 signaling but not improved metabolism during dietary protein dilution. Molecular metabolism, 6(8), 873.