

Resource Summary Report

Generated by [kravitz2](#) on Sep 17, 2026

B6.129S4-Ndufs4^{tm1Rpa}/J

RRID:IMSR_JAX:026963

Type: Organism

Proper Citation

RRID:IMSR_JAX:026963

Organism Information

URL: <https://www.jax.org/strain/026963>

Proper Citation: RRID:IMSR_JAX:026963

Description: Mus musculus with name B6.129S4-Ndufs4^{tm1Rpa}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: NADH:ubiquinone oxidoreductase core subunit S4; mutant strain|congenic strain: Ndufs4

Affected Gene: NADH:ubiquinone oxidoreductase core subunit S4

Genomic Alteration: targeted mutation 1; Richard D Palmiter

Catalog Number: JAX:026963

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129S4-Ndufs4^{tm1Rpa}/J

Record Creation Time: 20250513T053759+0000

Record Last Update: 20260912T060539+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S4-Ndufs4^{tm1Rpa}/J.

No alerts have been found for B6.129S4-Ndufs4^{tm1Rpa}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Yuan L, et al. (2025) Mitochondrial activity tunes nociceptor resilience to excitotoxicity. Cell.

Choi KM, et al. (2022) Adipose Mitochondrial Complex I Deficiency Modulates Inflammation and Glucose Homeostasis in a Sex-Dependent Manner. Endocrinology, 163(4).

McElroy GS, et al. (2020) NAD⁺ Regeneration Rescues Lifespan, but Not Ataxia, in a Mouse Model of Brain Mitochondrial Complex I Dysfunction. Cell metabolism, 32(2), 301.

Bolea I, et al. (2019) Defined neuronal populations drive fatal phenotype in a mouse model of Leigh syndrome. eLife, 8.