Resource Summary Report

Generated by RRID on Jul 30, 2026

FVB/NJ-Tg(C9orf72)500Lpwr/J

RRID:IMSR_JAX:029099
Type: Organism

Proper Citation

RRID:IMSR_JAX:029099

Organism Information

URL: https://www.jax.org/strain/029099

Proper Citation: RRID:IMSR_JAX:029099

Description: Mus musculus with name FVB/NJ-Tg(C9orf72)500Lpwr/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgene insertion 500; Laura Ranum|C9orf72; member of C9orf72-SMCR8 complex; coisogenic strain|mutant strain: Tg(C9orf72)500Lpwr|C9orf72

Affected Gene: transgene insertion 500; Laura Ranum|C9orf72; member of C9orf72-SMCR8 complex

Genomic Alteration: transgene insertion 500; Laura Ranum

Catalog Number: JAX:029099

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: FVB/NJ-Tg(C9orf72)500Lpwr/J

Record Creation Time: 20250513T053807+0000

Record Last Update: 20260725T044513+0000

Ratings and Alerts

No rating or validation information has been found for FVB/NJ-Tg(C9orf72)500Lpwr/J.

No alerts have been found for FVB/NJ-Tg(C9orf72)500Lpwr/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Pilotto F, et al. (2026) Engineered GM1 Intersects Between Mitochondrial and Synaptic Pathways to Ameliorate ALS Pathology. Advanced science (Weinheim, Baden-Wurttemberg, Germany), e14128.

Pilotto F, et al. (2025) Kaempferol enhances ER-mitochondria coupling and protects motor neurons from mitochondrial dysfunction and ER stress in C9ORF72-ALS. Acta neuropathologica communications, 13(1), 21.

Kempthorne L, et al. (2025) Dual-targeting CRISPR-CasRx reduces C9orf72 ALS/FTD sense and antisense repeat RNAs in vitro and in vivo. Nature communications, 16(1), 459.

Broadhead MJ, et al. (2022) Selective vulnerability of tripartite synapses in amyotrophic lateral sclerosis. Acta neuropathologica, 143(4), 471.

Pilotto F, et al. (2022) PolyGA targets the ER stress-adaptive response by impairing GRP75 function at the MAM in C9ORF72-ALS/FTD. Acta neuropathologica, 144(5), 939.

Pan Y, et al. (2022) Altered Blood-Brain Barrier Dynamics in the C9orf72 Hexanucleotide Repeat Expansion Mouse Model of Amyotrophic Lateral Sclerosis. Pharmaceutics, 14(12).

Hatanaka Y, et al. (2022) C9orf72 Hexanucleotide Repeat Expansion-Related Neuropathology Is Attenuated by Nasal Rifampicin in Mice. Biomedicines, 10(5).

Amalyan S, et al. (2022) Enhanced motor cortex output and disinhibition in asymptomatic female mice with C9orf72 genetic expansion. Cell reports, 40(1), 111043.

Nguyen L, et al. (2020) Survival and Motor Phenotypes in FVB C9-500 ALS/FTD BAC Transgenic Mice Reproduced by Multiple Labs. Neuron, 108(4), 784.