Resource Summary Report

Generated by dkNET on Jul 29, 2026

STOCK Spaca3^{tm1Osb}/M6F

RRID:IMSR_CARD:2148
Type: Organism

Proper Citation

RRID:IMSR_CARD:2148

Organism Information

URL: https://cardmice.com/rbase/strain?strainid=2148

Proper Citation: RRID:IMSR_CARD:2148

Description: Mus musculus with name STOCK Spaca3^{tm1Osb}/M6F from IMSR.

Species: Mus musculus

Notes: gene symbol note: sperm acrosome associated 3; mutant stock: Spaca3

Affected Gene: sperm acrosome associated 3

Genomic Alteration: targeted mutation 1; Research Institute for Microbial Diseases; Osaka University

Catalog Number: CARD:2148

Database: Center for Animal Resources and Development

Database Abbreviation: CARD

Availability: embryo

Organism Name: STOCK Spaca3^{tm1Osb}/M6F

Record Creation Time: 20250513T061401+0000

Record Last Update: 20260725T052039+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Spaca3^{tm1Osb}/M6F.

No alerts have been found for STOCK Spaca3^{tm1Osb}/M6F.

Data and Source Information

Source: Integrated Animals

Source Database: Center for Animal Resources and Development

Usage and Citation Metrics

We found 272 mentions in open access literature.

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

Gunner G, et al. (2025) Gasdermin D is activated but does not drive neurodegeneration in SOD1G93A model of ALS: Implications for targeting pyroptosis. Neurobiology of disease, 214, 107048.

Hwang DW, et al. (2025) Image-Guided Monitoring of Mitochondria and Blood-Brain Barrier Dysfunction in Amyotrophic Lateral Sclerosis Mice. Biomaterials research, 29, 0162.

Hale OJ, et al. (2024) Mass spectrometry imaging of SOD1 protein-metal complexes in SOD1G93A transgenic mice implicates demetalation with pathology. Nature communications, 15(1), 6518.

Chen LX, et al. (2024) Single-Nucleus RNA Sequencing Reveals the Spatiotemporal Dynamics of Disease-Associated Microglia in Amyotrophic Lateral Sclerosis. Research (Washington, D.C.), 7, 0548.

López-Royo T, et al. (2024) Differentially expressed lncRNAs in SOD1G93A mice skeletal muscle: H19, Myhas and Neat1 as potential biomarkers in amyotrophic lateral sclerosis. Open biology, 14(10), 240015.

Baindoor S, et al. (2024) Distinct fingerprints of tRNA-derived small non-coding RNA in animal models of neurodegeneration. Disease models & mechanisms, 17(11).

Wang YM, et al. (2024) TwinF interface inhibitor FP802 prevents retinal ganglion cell loss in a mouse model of amyotrophic lateral sclerosis. Acta neuropathologica communications, 12(1), 149.

Yan J, et al. (2024) TwinF interface inhibitor FP802 stops loss of motor neurons and mitigates disease progression in a mouse model of ALS. Cell reports. Medicine, 5(2), 101413.

Miquel E, et al. (2024) Pyruvate dehydrogenase kinase 2 knockdown restores the ability of amyotrophic lateral sclerosis-linked SOD1G93A rat astrocytes to support motor neuron survival by increasing mitochondrial respiration. Glia, 72(5), 999.

Marton S, et al. (2023) SOD1G93A Astrocyte-Derived Extracellular Vesicles Induce Motor Neuron Death by a miRNA-155-5p-Mediated Mechanism. ASN neuro, 15, 17590914231197527.

Meanti R, et al. (2023) Protective Effects of Hexarelin and JMV2894 in a Human Neuroblastoma Cell Line Expressing the SOD1-G93A Mutated Protein. International journal of molecular sciences, 24(2).

Tu LF, et al. (2023) GPX4 deficiency-dependent phospholipid peroxidation drives motor deficits of ALS. Journal of advanced research, 43, 205.

Margotta C, et al. (2023) Immune-mediated myogenesis and acetylcholine receptor clustering promote a slow disease progression in ALS mouse models. Inflammation and regeneration, 43(1), 19.

Scarrott JM, et al. (2023) Ap4b1-knockout mouse model of hereditary spastic paraplegia type 47 displays motor dysfunction, aberrant brain morphology and ATG9A mislocalization. Brain communications, 5(1), fcac335.

Gao T, et al. (2023) Protective effects of intrathecal injection of AAV9-RabGGTB-GFP+ in SOD1G93A mice. Frontiers in aging neuroscience, 15, 1092607.

Fabbrizio P, et al. (2023) Intramuscular IL-10 Administration Enhances the Activity of Myogenic Precursor Cells and Improves Motor Function in ALS Mouse Model. Cells, 12(7).

Hernández S, et al. (2023) Persistent NRG1 Type III Overexpression in Spinal Motor Neurons Has No Therapeutic Effect on ALS-Related Pathology in SOD1G93A Mice. Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics, 20(6), 1820.

Picher-Martel V, et al. (2023) Distinct Plasma Immune Profile in ALS Implicates sTNFR-II in pAMPK/Leptin Homeostasis. International journal of molecular sciences, 24(6).

Maruyama T, et al. (2023) Free fatty acids support oligodendrocyte survival in a mouse model of amyotrophic lateral sclerosis. Frontiers in cellular neuroscience, 17, 1081190.

Yoshikawa M, et al. (2022) Comparing effects of microgravity and amyotrophic lateral sclerosis in the mouse ventral lumbar spinal cord. Molecular and cellular neurosciences, 121, 103745.