Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

B6SJL-Tg(SOD1)2Gur/J

RRID:IMSR_JAX:002297
Type: Organism

Proper Citation

RRID:IMSR_JAX:002297

Organism Information

URL: https://www.jax.org/strain/002297

Proper Citation: RRID:IMSR_JAX:002297

Description: Mus musculus with name B6SJL-Tg(SOD1)2Gur/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgene insertion 2; Mark E Gurney|superoxide dismutase 1; mutant strain: Tg(SOD1)2Gur|SOD1

Affected Gene: transgene insertion 2; Mark E Gurney|superoxide dismutase 1

Genomic Alteration: transgene insertion 2; Mark E Gurney

Catalog Number: JAX:002297

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: B6SJL-Tg(SOD1)2Gur/J

Record Creation Time: 20250513T053631+0000

Record Last Update: 20260808T050832+0000

Ratings and Alerts

No rating or validation information has been found for B6SJL-Tg(SOD1)2Gur/J.

No alerts have been found for B6SJL-Tg(SOD1)2Gur/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 64 mentions in open access literature.

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

Scaricamazza S, et al. (2026) The hypothalamus is an early site of mitochondrial failure and neuro-immune circuit disruption in amyotrophic lateral sclerosis. Molecular metabolism, 107, 102360.

Fiorucci C, et al. (2026) Transcriptomic Analysis Reveals the Beneficial Effects of Spermidine in an ALS Mouse Model. Biomolecules, 16(4).

Narayanan A, et al. (2025) Lymphatic dysfunction correlates with inflammation in a mouse model of amyotrophic lateral sclerosis. Disease models & mechanisms, 18(7).

Lin CF, et al. (2025) Xenotransplantation of Human Umbilical Mesenchymal Stromal Cells Derived from Wharton's Jelly Mitigates Mouse Amyotrophic Lateral Sclerosis. Stem cell research & therapy, 16(1), 395.

Du X, et al. (2024) Rutin Ameliorates ALS Pathology by Reducing SOD1 Aggregation and Neuroinflammation in an SOD1-G93A Mouse Model. International journal of molecular sciences, 25(19).

Milani M, et al. (2024) Neuroprotective effects of niclosamide on disease progression via inflammatory pathways modulation in SOD1-G93A and FUS-associated amyotrophic lateral sclerosis models. Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics, 21(3), e00346.

Chen YA, et al. (2023) In vivo genome editing using novel AAV-PHP variants rescues motor function deficits and extends survival in a SOD1-ALS mouse model. Gene therapy, 30(5), 443.

Zhou Y, et al. (2023) Honokiol alleviated neurodegeneration by reducing oxidative stress and improving mitochondrial function in mutant SOD1 cellular and mouse models of amyotrophic lateral sclerosis. Acta pharmaceutica Sinica. B, 13(2), 577.

Wu Y, et al. (2023) Bcl-xL Promotes the Survival of Motor Neurons Derived from Neural Stem Cells. Biology, 12(1).

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.

Aghaizu ND, et al. (2023) Microglial Expression of the Wnt Signaling Modulator DKK2 Differs between Human Alzheimer's Disease Brains and Mouse Neurodegeneration

Models. eNeuro, 10(1).

Tak YJ, et al. (2022) The E2 ubiquitin-conjugating enzyme HIP2 is a crucial regulator of quality control against mutant SOD1 proteotoxicity. Biochimica et biophysica acta. Molecular basis of disease, 1868(2), 166316.

Zhang Y, et al. (2022) Endothelin-1, over-expressed in SOD1G93A mice, aggravates injury of NSC34-hSOD1G93A cells through complicated molecular mechanism revealed by quantitative proteomics analysis. Frontiers in cellular neuroscience, 16, 1069617.

Yusuf IO, et al. (2022) Protein citrullination marks myelin protein aggregation and disease progression in mouse ALS models. Acta neuropathologica communications, 10(1), 135.

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

Tan HY, et al. (2022) cGAS and DDX41-STING mediated intrinsic immunity spreads intercellularly to promote neuroinflammation in SOD1 ALS model. iScience, 25(6), 104404.

Pandit K, et al. (2022) An open source toolkit for repurposing Illumina sequencing systems as versatile fluidics and imaging platforms. Scientific reports, 12(1), 5081.

Bono N, et al. (2022) Silk fibroin microgels as a platform for cell microencapsulation. Journal of materials science. Materials in medicine, 34(1), 3.

Arredondo C, et al. (2022) Excessive release of inorganic polyphosphate by ALS/FTD astrocytes causes non-cell-autonomous toxicity to motoneurons. Neuron, 110(10), 1656.

Stella R, et al. (2021) Perturbations of the Proteome and of Secreted Metabolites in Primary Astrocytes from the hSOD1(G93A) ALS Mouse Model. International journal of molecular sciences, 22(13).