Resource Summary Report

Generated by RRID on Jul 30, 2026

B6.Cg-Tg(SOD1*G93A)1Gur/J

RRID:IMSR_JAX:004435
Type: Organism

Proper Citation

RRID:IMSR_JAX:004435

Organism Information

URL: https://www.jax.org/strain/004435

Proper Citation: RRID:IMSR_JAX:004435

Description: Mus musculus with name B6.Cg-Tg(SOD1*G93A)1Gur/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Tg(SOD1-G93A)1Gur/J/J. B6.Cg-Tg(SOD1-G93A)1Gur/J

Notes: gene symbol note: superoxide dismutase 1|transgene insertion 1; Mark E Gurney; mutant strain|congenic strain: SOD1|Tg(SOD1*G93A)1Gur

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

Genomic Alteration: transgene insertion 1; Mark E Gurney

Catalog Number: JAX:004435

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(SOD1*G93A)1Gur/J

Record Creation Time: 20250513T053645+0000

Record Last Update: 20260725T044354+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(SOD1*G93A)1Gur/J.

No alerts have been found for B6.Cg-Tg(SOD1*G93A)1Gur/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 145 mentions in open access literature.

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

Lenoel I, et al. (2025) ALS/FTD-linked TBK1 deficiency in microglia induces an aged-like microglial signature and drives social recognition deficits in mice. Nature communications, 16(1), 7951.

Zelic M, et al. (2025) Single-cell transcriptomic and functional studies identify glial state changes and a role for inflammatory RIPK1 signaling in ALS pathogenesis. Immunity, 58(4), 961.

Cocozza G, et al. (2025) GDF15-GFRAL signaling drives weight loss and lipid metabolism in mouse model of amyotrophic lateral sclerosis. Brain, behavior, and immunity, 124, 280.

Thau-Habermann N, et al. (2025) Parthenolide regulates microglial and astrocyte function in primary cultures from ALS mice and has neuroprotective effects on primary motor neurons. PloS one, 20(3), e0319866.

Galloway DA, et al. (2025) miR-146a is a Pleiotropic Regulator of Motor Neuron Degeneration. bioRxiv : the preprint server for biology.

Lum JS, et al. (2025) A polytherapy approach demonstrates therapeutic efficacy for the treatment of SOD1 associated amyotrophic lateral sclerosis. EBioMedicine, 115, 105692.

Dogan EO, et al. (2025) Genetic Ablation of Sarm1 Mitigates Disease Acceleration after Traumatic Brain Injury in the SOD1G93A Transgenic Mouse Model of Amyotrophic Lateral Sclerosis. Annals of neurology, 97(5), 963.

Shelest O, et al. (2024) Delineating sex-dependent and anatomic decline of motor functions in the SOD1G93A mouse model of amyotrophic lateral sclerosis. bioRxiv : the preprint server for biology.

Bryson JB, et al. (2024) An optogenetic cell therapy to restore control of target muscles in an aggressive mouse model of amyotrophic lateral sclerosis. eLife, 12.

Nowicka N, et al. (2024) Novel insights into RAGE signaling pathways during the progression of amyotrophic lateral sclerosis in RAGE-deficient SOD1 G93A mice. PloS one, 19(3), e0299567.

Urban MW, et al. (2024) EphrinB2 knockdown in cervical spinal cord preserves diaphragm innervation in a mutant SOD1 mouse model of ALS. eLife, 12.

Hossain MA, et al. (2024) Evaluating protein cross-linking as a therapeutic strategy to stabilize SOD1 variants in a mouse model of familial ALS. PLoS biology, 22(1), e3002462.

Montañana-Rosell R, et al. (2024) Spinal inhibitory neurons degenerate before motor neurons and excitatory neurons in a mouse model of ALS. Science advances, 10(22), eadk3229.

Magrì A, et al. (2024) AAV-mediated upregulation of VDAC1 rescues the mitochondrial respiration and sirtuins expression in a SOD1 mouse model of inherited ALS. Cell death discovery, 10(1), 178.

Hazell G, et al. (2024) Exercise, disease state and sex influence the beneficial effects of Fn14-depletion on survival and muscle pathology in the SOD1G93A amyotrophic lateral sclerosis (ALS) mouse model. Skeletal muscle, 14(1), 23.

Alfahel L, et al. (2024) Protocol for handling and using SOD1 mice for amyotrophic lateral sclerosis pre-clinical studies. STAR protocols, 5(4), 103459.

Watanabe S, et al. (2024) Ebselen analogues delay disease onset and its course in fALS by on-target SOD-1 engagement. Scientific reports, 14(1), 12118.

Alfahel L, et al. (2024) Targeting low levels of MIF expression as a potential therapeutic strategy for ALS. Cell reports. Medicine, 5(5), 101546.

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.

Komine O, et al. (2024) Genetic background variation impacts microglial heterogeneity and disease progression in amyotrophic lateral sclerosis model mice. iScience, 27(2), 108872.