

Resource Summary Report

Generated by [NIF](#) on Aug 26, 2026

B6;129S4-Tsc2^{tm1Djk/J}

RRID:IMSR_JAX:004686

Type: Organism

Proper Citation

RRID:IMSR_JAX:004686

Organism Information

URL: <https://www.jax.org/strain/004686>

Proper Citation: RRID:IMSR_JAX:004686

Description: Mus musculus with name B6;129S4-Tsc2^{tm1Djk/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: TSC complex subunit 2; mutant stock: Tsc2

Affected Gene: TSC complex subunit 2

Genomic Alteration: targeted mutation 1; David J Kwiatkowski

Catalog Number: JAX:004686

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;129S4-Tsc2^{tm1Djk/J}

Record Creation Time: 20250513T053646+0000

Record Last Update: 20260815T050558+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S4-Tsc2^{tm1Djk/J}.

No alerts have been found for B6;129S4-Tsc2^{tm1Djk/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Tucker SA, et al. (2024) SIRT4 loss reprograms intestinal nucleotide metabolism to support proliferation following perturbation of homeostasis. *Cell reports*, 43(4), 113975.

G?ssowska-Dobrowolska M, et al. (2023) Microtubule Cytoskeletal Network Alterations in a Transgenic Model of Tuberous Sclerosis Complex: Relevance to Autism Spectrum Disorders. *International journal of molecular sciences*, 24(8).

Unachukwu U, et al. (2023) Tyrosine Kinase Inhibitors Diminish Renal Neoplasms in a Tuberous Sclerosis Model Via Induction of Apoptosis. *Molecular cancer therapeutics*, 22(7), 844.

Czapski GA, et al. (2021) Synaptic Alterations in a Transgenic Model of Tuberous Sclerosis Complex: Relevance to Autism Spectrum Disorders. *International journal of molecular sciences*, 22(18).

Hsieh CC, et al. (2021) Detection of endophenotypes associated with neuropsychiatric deficiencies in a mouse model of tuberous sclerosis complex using diffusion tensor imaging. *Brain pathology (Zurich, Switzerland)*, 31(1), 4.

Bassetti D, et al. (2021) Presynaptic GABAB receptor-mediated network excitation in the medial prefrontal cortex of Tsc2+/- mice. *Pflügers Archiv : European journal of physiology*, 473(8), 1261.

Benthall KN, et al. (2021) Loss of Tsc1 from striatal direct pathway neurons impairs endocannabinoid-LTD and enhances motor routine learning. *Cell reports*, 36(6), 109511.

Unachukwu U, et al. (2021) Renal neoplasms in tuberous sclerosis mice are neurocristopathies. *iScience*, 24(7), 102684.

Di Nardo A, et al. (2020) Phenotypic Screen with TSC-Deficient Neurons Reveals Heat-Shock Machinery as a Druggable Pathway for mTORC1 and Reduced Cilia. *Cell reports*, 31(12), 107780.

Saré RM, et al. (2018) Decreased rates of cerebral protein synthesis measured in vivo in a mouse model of Tuberous Sclerosis Complex: unexpected consequences of reduced tuberin. *Journal of neurochemistry*, 145(5), 417.