

Resource Summary Report

Generated by [NIF](#) on Aug 14, 2026

B6.CE-Galc^{twi}/J

RRID:IMSR_JAX:000845

Type: Organism

Proper Citation

RRID:IMSR_JAX:000845

Organism Information

URL: <https://www.jax.org/strain/000845>

Proper Citation: RRID:IMSR_JAX:000845

Description: Mus musculus with name B6.CE-Galc^{twi}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: galactosylceramidase; mutant strain|congenic strain: Galc

Affected Gene: galactosylceramidase

Genomic Alteration: twitcher

Catalog Number: JAX:000845

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.CE-Galc^{twi}/J

Record Creation Time: 20250513T053622+0000

Record Last Update: 20260808T050824+0000

Ratings and Alerts

No rating or validation information has been found for B6.CE-Galc^{twi}/J.

No alerts have been found for B6.CE-Galc^{twi}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Begum S, et al. (2026) Sphingolipid-neutralizing molecular therapy reduces psychosine cytotoxicity in Krabbe disease. *iScience*, 29(3), 114808.

Tang Z, et al. (2025) STING mediates lysosomal quality control and recovery through its proton channel function and TFEB activation in lysosomal storage disorders. *Molecular cell*, 85(8), 1624.

Aisenberg WH, et al. (2025) Direct microglia replacement reveals pathologic and therapeutic contributions of brain macrophages to a monogenic neurological disease. *Immunity*, 58(5), 1254.

Sharma K, et al. (2023) The Effects of Antipsychotics in Experimental Models of Krabbe Disease. *Biomedicines*, 11(5).

Watanabe T, et al. (2023) Genetic ablation of Saposin-D in Krabbe disease eliminates psychosine accumulation but does not significantly improve demyelination. *Journal of neurochemistry*, 166(4), 720.

Vantaggiato L, et al. (2022) Neurodegenerative Disorder Risk in Krabbe Disease Carriers. *International journal of molecular sciences*, 23(21).

Weinstock NI, et al. (2020) Macrophages Expressing GALC Improve Peripheral Krabbe Disease by a Mechanism Independent of Cross-Correction. *Neuron*, 107(1), 65.

Parlanti P, et al. (2017) Size and specimen-dependent strategy for x-ray micro-ct and tem correlative analysis of nervous system samples. *Scientific reports*, 7(1), 2858.

Folts CJ, et al. (2016) Lysosomal Re-acidification Prevents Lysosphingolipid-Induced Lysosomal Impairment and Cellular Toxicity. *PLoS biology*, 14(12), e1002583.

Weinstock NI, et al. (2016) Metabolic profiling reveals biochemical pathways and potential biomarkers associated with the pathogenesis of Krabbe disease. *Journal of neuroscience research*, 94(11), 1094.

Hu P, et al. (2016) Hematopoietic Stem cell transplantation and lentiviral vector-based gene therapy for Krabbe's disease: Present convictions and future prospects. *Journal of neuroscience research*, 94(11), 1152.

Potter GB, et al. (2016) Neuroimmune mechanisms in Krabbe's disease. *Journal of neuroscience research*, 94(11), 1341.