

Resource Summary Report

Generated by [Kravitz](#) on Sep 19, 2026

B6.129-Tmc1^{tm1.1A}g/J

RRID:IMSR_JAX:019146

Type: Organism

Proper Citation

RRID:IMSR_JAX:019146

Organism Information

URL: <https://www.jax.org/strain/019146>

Proper Citation: RRID:IMSR_JAX:019146

Description: Mus musculus with name B6.129-Tmc1^{tm1.1A}g/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transmembrane channel-like gene family 1|beta-galactosidase; mutant strain|congenic strain: Tmc1|lacZ

Affected Gene: transmembrane channel-like gene family 1|beta-galactosidase

Genomic Alteration: targeted mutation 1.1; Andrew J Griffith

Catalog Number: JAX:019146

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129-Tmc1^{tm1.1A}g/J

Record Creation Time: 20250513T053740+0000

Record Last Update: 20260919T054927+0000

Ratings and Alerts

No rating or validation information has been found for B6.129-Tmc1^{tm1.1A}g/J.

No alerts have been found for B6.129-Tmc1^{tm1.1A}g/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Ballesteros A, et al. (2022) Regulation of membrane homeostasis by TMC1 mechanoelectrical transduction channels is essential for hearing. *Science advances*, 8(31), eabm5550.

Li J, et al. (2021) PIEZO2 mediates ultrasonic hearing via cochlear outer hair cells in mice. *Proceedings of the National Academy of Sciences of the United States of America*, 118(28).

Liu S, et al. (2019) TMC1 is an essential component of a leak channel that modulates tonotopy and excitability of auditory hair cells in mice. *eLife*, 8.

Ballesteros A, et al. (2018) Structural relationship between the putative hair cell mechanotransduction channel TMC1 and TMEM16 proteins. *eLife*, 7.

Beurg M, et al. (2014) Conductance and block of hair-cell mechanotransducer channels in transmembrane channel-like protein mutants. *The Journal of general physiology*, 144(1), 55.