

Resource Summary Report

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

129S-Trpa1^{tm2Kykw/J}

RRID:IMSR_JAX:008649

Type: Organism

Proper Citation

RRID:IMSR_JAX:008649

Organism Information

URL: <https://www.jax.org/strain/008649>

Proper Citation: RRID:IMSR_JAX:008649

Description: Mus musculus with name 129S-Trpa1^{tm2Kykw/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: transient receptor potential cation channel; subfamily A; member 1; mutant strain: Trpa1

Affected Gene: transient receptor potential cation channel; subfamily A; member 1

Genomic Alteration: targeted mutation 2; Kelvin Y Kwan

Catalog Number: JAX:008649

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: 129S-Trpa1^{tm2Kykw/J}

Record Creation Time: 20250513T053710+0000

Record Last Update: 20260919T054858+0000

Ratings and Alerts

No rating or validation information has been found for 129S-Trpa1^{tm2Kykw/J}.

No alerts have been found for 129S-Trpa1^{tm2Kykw/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Bellantoni E, et al. (2024) Schwann cell transient receptor potential ankyrin 1 (TRPA1) ortholog in zebrafish larvae mediates chemotherapy-induced peripheral neuropathy. *British journal of pharmacology*, 181(23), 4859.

Landini L, et al. (2023) Acetaldehyde via CGRP receptor and TRPA1 in Schwann cells mediates ethanol-evoked periorbital mechanical allodynia in mice: relevance for migraine. *Journal of biomedical science*, 30(1), 28.

De Logu F, et al. (2022) Schwann cell endosome CGRP signals elicit periorbital mechanical allodynia in mice. *Nature communications*, 13(1), 646.

De Logu F, et al. (2021) Peripheral Nerve Resident Macrophages and Schwann Cells Mediate Cancer-Induced Pain. *Cancer research*, 81(12), 3387.

De Logu F, et al. (2020) Macrophages and Schwann cell TRPA1 mediate chronic allodynia in a mouse model of complex regional pain syndrome type I. *Brain, behavior, and immunity*, 88, 535.

Souza Monteiro de Araujo D, et al. (2020) TRPA1 mediates damage of the retina induced by ischemia and reperfusion in mice. *Cell death & disease*, 11(8), 633.

Marone IM, et al. (2018) TRPA1/NOX in the soma of trigeminal ganglion neurons mediates migraine-related pain of glyceryl trinitrate in mice. *Brain : a journal of neurology*, 141(8), 2312.

De Logu F, et al. (2017) Schwann cell TRPA1 mediates neuroinflammation that sustains macrophage-dependent neuropathic pain in mice. *Nature communications*, 8(1), 1887.