

Resource Summary Report

Generated by [NIF](#) on Sep 22, 2026

[Trpv1^{tm1Jul}/Trpv1^{tm1Jul}](#)

RRID:MGI:4417977

Type: Organism

Proper Citation

RRID:MGI:4417977

Organism Information

URL:

Proper Citation: RRID:MGI:4417977

Description: Allele Detail: Targeted This is a legacy resource.

Species: Mus musculus

Notes: Allele Detail: Targeted This is a legacy resource.

Phenotype: abnormal action potential, behavior/neurological phenotype, abnormal mechanical nociception, abnormal physiological response to xenobiotic, reduced long term depression, abnormal hair cycle, abnormal hair cycle catagen phase, abnormal hair cycle telogen phase, altered righting response, impaired behavioral response to alcohol, alcohol preference, impaired coordination, increased alcohol consumption, behavior/neurological phenotype, increased thermal nociceptive threshold, decreased left ventricle diastolic pressure, increased coronary flow rate, increased left ventricle developed pressure, altered response of heart to induced stress, decreased synaptic depression, abnormal nervous system electrophysiology, abnormal physiological response to xenobiotic, abnormal physiological response to xenobiotic, increased body weight, abnormal physiological response to xenobiotic, abnormal neuronal precursor proliferation, abnormal taste sensitivity, increased blood osmolality, impaired ability to fire action potentials, abnormal physiological response to xenobiotic

Affected Gene: Trpv1

Genomic Alteration: tm1Jul

Catalog Number: 4417977

Background: B6.129X1-Trpv1/J

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Source References: [PMID:15128844](#), [PMID:18341994](#), [PMID:16314376](#), [PMID:17347480](#), [PMID:15266010](#), [PMID:19244541](#), [PMID:15509739](#), [PMID:18249134](#), [PMID:16327782](#), [PMID:15121805](#), [PMID:19705551](#), [PMID:17553498](#), [PMID:16645591](#)

Organism Name: Trpv1^{tm1Jul}/Trpv1^{tm1Jul}

Record Creation Time: 20240120T190312+0000

Record Last Update: 20240130T201828+0000

Ratings and Alerts

No rating or validation information has been found for Trpv1^{tm1Jul}/Trpv1^{tm1Jul}.

No alerts have been found for Trpv1^{tm1Jul}/Trpv1^{tm1Jul}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Mali SS, et al. (2024) SARS-CoV-2 papain-like protease activates nociceptors to drive sneeze and pain. bioRxiv : the preprint server for biology.

Jia Q, et al. (2021) Transient Receptor Potential channels, TRPV1 and TRPA1 in melanocytes synergize UV-dependent and UV-independent melanogenesis. British journal of pharmacology, 178(23), 4646.

Zhang Y, et al. (2020) Acupuncture alleviates acid- and purine-induced pain in rodents. British journal of pharmacology, 177(1), 77.

Hill RZ, et al. (2018) S1PR3 Mediates Itch and Pain via Distinct TRP Channel-Dependent Pathways. The Journal of neuroscience : the official journal of the Society for Neuroscience, 38(36), 7833.