

Resource Summary Report

Generated by [kravitz2](#) on Sep 20, 2026

STOCK Mrgprd^{tm1.1}(cre/ERT2)Wql/J

RRID:IMSR_JAX:031286

Type: Organism

Proper Citation

RRID:IMSR_JAX:031286

Organism Information

URL: <https://www.jax.org/strain/031286>

Proper Citation: RRID:IMSR_JAX:031286

Description: Mus musculus with name STOCK Mrgprd^{tm1.1}(cre/ERT2)Wql/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: Cre recombinase and estrogen receptor 1 (human) fusion gene|MAS-related GPR; member D; mutant stock: cre/ERT2|Mrgprd

Affected Gene: Cre recombinase and estrogen receptor 1 (human) fusion gene|MAS-related GPR; member D

Genomic Alteration: targeted mutation 1.1; Wenqin Luo

Catalog Number: JAX:031286

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: STOCK Mrgprd^{tm1.1}(cre/ERT2)Wql/J

Record Creation Time: 20250513T053821+0000

Record Last Update: 20260919T055005+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Mrgprd^{tm1.1}(cre/ERT2)Wql/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 17 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

Lezgiyeva K, et al. (2026) Fast-conducting mechanonociceptors uniquely engage reflexive and affective pain circuitry to drive protective responses. *Neuron*.

Wang SS, et al. (2025) Tmem45b modulates itch via endoplasmic reticulum calcium regulation. *Frontiers in physiology*, 16, 1708686.

Upadhyay A, et al. (2025) The dorsal column nuclei scale mechanical sensitivity in naive and neuropathic pain states. *Cell reports*, 44(4), 115556.

Lezgiyeva K, et al. (2025) Fast-conducting mechanonociceptors uniquely engage reflexive and affective pain circuitry to drive protective responses. *bioRxiv* : the preprint server for biology.

Qi L, et al. (2024) A mouse DRG genetic toolkit reveals morphological and physiological diversity of somatosensory neuron subtypes. *Cell*, 187(6), 1508.

Cooper AH, et al. (2024) Peripheral nerve injury results in a biased loss of sensory neuron subpopulations. *Pain*, 165(12), 2863.

Elias LJ, et al. (2023) Touch neurons underlying dopaminergic pleasurable touch and sexual receptivity. *Cell*, 186(3), 577.

Qi L, et al. (2023) A DRG genetic toolkit reveals molecular, morphological, and functional diversity of somatosensory neuron subtypes. *bioRxiv* : the preprint server for biology.

Wolfson RL, et al. (2023) DRG afferents that mediate physiologic and pathologic mechanosensation from the distal colon. *Cell*, 186(16), 3368.

Lu P, et al. (2023) MrgprA3-expressing pruriceptors drive pruritogen-induced allodynia through mechanosensitive Piezo2 channel. *Cell reports*, 42(4), 112283.

Wang L, et al. (2023) Involvement of Mrgprd-expressing nociceptors-recruited spinal mechanisms in nerve injury-induced mechanical allodynia. *iScience*, 26(5), 106764.

Wang H, et al. (2022) A novel spinal neuron connection for heat sensation. *Neuron*, 110(14), 2315.

Lindquist KA, et al. (2021) Identification of Trigeminal Sensory Neuronal Types Innervating Masseter Muscle. *eNeuro*, 8(5).

Renthal W, et al. (2020) Transcriptional Reprogramming of Distinct Peripheral Sensory Neuron Subtypes after Axonal Injury. *Neuron*, 108(1), 128.

Beaulieu-Laroche L, et al. (2020) TACAN Is an Ion Channel Involved in Sensing Mechanical Pain. *Cell*, 180(5), 956.

Abdus-Saboor I, et al. (2019) Development of a Mouse Pain Scale Using Sub-second Behavioral Mapping and Statistical Modeling. *Cell reports*, 28(6), 1623.

Olson W, et al. (2018) Somatotopic organization of central arbors from nociceptive afferents develops independently of their intact peripheral target innervation. *The Journal of comparative neurology*, 526(18), 3058.