Resource Summary Report

Generated by NIF on Sep 3, 2026

B6.129S6(Cg)-Ntrk2$^{tm3.1(cre/ERT2)Ddg}$/J

RRID:IMSR_JAX:027214
Type: Organism

Proper Citation

RRID:IMSR_JAX:027214

Organism Information

URL: https://www.jax.org/strain/027214

Proper Citation: RRID:IMSR_JAX:027214

Description: Mus musculus with name B6.129S6(Cg)-Ntrk2$^{tm3.1(cre/ERT2)Ddg}$/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: Cre recombinase and estrogen receptor 1 (human) fusion gene|neurotrophic tyrosine kinase; receptor; type 2; mutant strain|congenic strain: cre/ERT2|Ntrk2

Affected Gene: Cre recombinase and estrogen receptor 1 (human) fusion gene|neurotrophic tyrosine kinase; receptor; type 2

Genomic Alteration: targeted mutation 3.1; David D Ginty

Catalog Number: JAX:027214

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129S6(Cg)-Ntrk2$^{tm3.1(cre/ERT2)Ddg}$/J

Record Creation Time: 20250513T053759+0000

Record Last Update: 20260829T045108+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S6(Cg)-Ntrk2$^{tm3.1(cre/ERT2)Ddg}$/J.

No alerts have been found for B6.129S6(Cg)-Ntrk2$^{tm3.1(cre/ERT2)Ddg}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 16 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Fatima M, et al. (2026) A specialized population of hair afferents dedicated to transmitting mechanical itch. Neuron.

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

Kong CSL, et al. (2025) Truncated NTRK2 is induced in CAP1 endothelial cells during mouse lung injury-repair. iScience, 28(7), 112973.

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.

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

Zhang L, et al. (2024) Trigeminal innervation and tactile responses in mouse tongue. Cell reports, 43(9), 114665.

Walters BN, et al. (2024) Longitudinal imaging of the taste bud in vivo with two-photon laser scanning microscopy. PloS one, 19(12), e0309366.

Ohman LC, et al. (2024) Deciphering Peripheral Taste Neuron Diversity: Using Genetic Identity to Bridge Taste Bud Innervation Patterns and Functional Responses. The Journal of neuroscience : the official journal of the Society for Neuroscience, 44(46).

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

Whiddon ZD, et al. (2023) Rapid structural remodeling of peripheral taste neurons is independent of taste cell turnover. PLoS biology, 21(8), e3002271.

Ohman LC, et al. (2023) Taste arbor structural variability analyzed across taste regions. The Journal of comparative neurology, 531(7), 743.

Handler A, et al. (2023) Three-dimensional reconstructions of mechanosensory end organs suggest a unifying mechanism underlying dynamic, light touch. Neuron, 111(20), 3211.

Xie Z, et al. (2022) A brain-to-spinal sensorimotor loop for repetitive self-grooming. Neuron, 110(5), 874.

Huang T, et al. (2021) Variable Branching Characteristics of Peripheral Taste Neurons Indicates Differential Convergence. The Journal of neuroscience : the official journal of the Society for Neuroscience, 41(22), 4850.

Zimmerman AL, et al. (2019) Distinct Modes of Presynaptic Inhibition of Cutaneous Afferents and Their Functions in Behavior. Neuron, 102(2), 420.

Boyle KA, et al. (2019) Defining a Spinal Microcircuit that Gates Myelinated Afferent Input: Implications for Tactile Allodynia. Cell reports, 28(2), 526.