

Resource Summary Report

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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.