Resource Summary Report

Generated by kravitz2 on Aug 9, 2026

B6(Cg)-Tg(Phox2b-cre)3Jke/J

RRID:IMSR_JAX:016223
Type: Organism

Proper Citation

RRID:IMSR_JAX:016223

Organism Information

URL: https://www.jax.org/strain/016223

Proper Citation: RRID:IMSR_JAX:016223

Description: Mus musculus with name B6(Cg)-Tg(Phox2b-cre)3Jke/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: paired-like homeobox 2b|transgene insertion 3; Joel K Elmquist|; mutant strain: Phox2b|Tg(Phox2b-cre)3Jke|

Affected Gene: paired-like homeobox 2b|transgene insertion 3; Joel K Elmquist|

Genomic Alteration: transgene insertion 3; Joel K Elmquist

Catalog Number: JAX:016223

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6(Cg)-Tg(Phox2b-cre)3Jke/J

Record Creation Time: 20250513T053729+0000

Record Last Update: 20260808T050934+0000

Ratings and Alerts

No rating or validation information has been found for B6(Cg)-Tg(Phox2b-cre)3Jke/J.

No alerts have been found for B6(Cg)-Tg(Phox2b-cre)3Jke/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 28 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Shao L, et al. (2026) GABAergic Inhibition from the Nucleus Tractus Solitarius to Ventrolateral Medulla Phox2b Neurons Modulates Central Respiratory Chemoreflex and Ventilatory Homeostasis. Neuroscience bulletin, 42(6), 1337.

Spann RA, et al. (2026) FGF21 signals through hindbrain neurons to alter food intake and energy expenditure during dietary protein restriction. Cell reports, 45(4), 117218.

Tang T, et al. (2026) Ribosomal Profiling of the Geniculate Ganglion Identifies the Receptor ALK as Critical for the Development and Maintenance of Oral Sensory Neurons. The Journal of neuroscience : the official journal of the Society for Neuroscience, 46(14).

Zhang Y, et al. (2026) Stem cell control in the lung by an autocrine injury-activated Igf complex. Science (New York, N.Y.), 392(6795), eadt1310.

Hayes NW, et al. (2026) IL-1? engages distinct peripheral sensory circuits to suppress feeding across time. bioRxiv : the preprint server for biology.

Jameson KG, et al. (2025) Select microbial metabolites in the small intestinal lumen regulates vagal activity via receptor-mediated signaling. iScience, 28(2), 111699.

Deng T, et al. (2025) A Molecularly Defined Medullary Network for Control of Respiratory Homeostasis. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(18), e2412822.

Tan J, et al. (2025) Placode and neural crest origins of congenital deafness in mouse models of Waardenburg-Shah syndrome. iScience, 28(1), 111680.

Schappe MS, et al. (2024) A vagal reflex evoked by airway closure. Nature, 627(8005), 830.

Shao L, et al. (2024) Whole-brain inputs and outputs of Phox2b and GABAergic neurons in the nucleus tractus solitarii. Frontiers in neuroscience, 18, 1427384.

Moe AAK, et al. (2024) Investigation of vagal sensory neurons in mice using optical vagal stimulation and tracheal neuroanatomy. iScience, 27(3), 109182.

Leon-Mercado L, et al. (2023) Evidence of extraganglionic vagal mechanoreceptors in the mouse vagus nerve. Journal of anatomy, 243(6), 936.

McCoy ME, et al. (2023) Ontogeny and Trophic Factor Sensitivity of Gastrointestinal Projecting Vagal Sensory Cell Types. eNeuro, 10(4).

Sandoval-Rodríguez R, et al. (2023) D1 and D2 neurons in the nucleus accumbens enable positive and negative control over sugar intake in mice. Cell reports, 42(3), 112190.

Servin-Vences MR, et al. (2023) PIEZO2 in somatosensory neurons controls gastrointestinal transit. Cell, 186(16), 3386.

Tolman Z, et al. (2022) Elp1 is required for development of visceral sensory peripheral and central circuitry. Disease models & mechanisms, 15(5).

Zheng Q, et al. (2022) Synchronized cluster firing, a distinct form of sensory neuron activation, drives spontaneous pain. Neuron, 110(2), 209.

Chen Z, et al. (2021) Interleukin-33 Promotes Serotonin Release from Enterochromaffin Cells for Intestinal Homeostasis. Immunity, 54(1), 151.

Borgmann D, et al. (2021) Gut-brain communication by distinct sensory neurons differently controls feeding and glucose metabolism. Cell metabolism, 33(7), 1466.

Cleary CM, et al. (2021) Somatostatin-expressing parafacial neurons are CO2/H+ sensitive and regulate baseline breathing. eLife, 10.