

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

B6;129S-Penk^{tm2(cre)}Hze/J

RRID:IMSR_JAX:025112

Type: Organism

Proper Citation

RRID:IMSR_JAX:025112

Organism Information

URL: <https://www.jax.org/strain/025112>

Proper Citation: RRID:IMSR_JAX:025112

Description: Mus musculus with name B6;129S-Penk^{tm2(cre)}Hze/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Penk/J

Notes: gene symbol note: |preproenkephalin; mutant stock: |Penk

Affected Gene: |preproenkephalin

Genomic Alteration: targeted mutation 2; Hongkui Zeng

Catalog Number: JAX:025112

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129S-Penk^{tm2(cre)}Hze/J

Record Creation Time: 20250513T053753+0000

Record Last Update: 20260725T044459+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Penk^{tm2(cre)}Hze/J.

No alerts have been found for B6;129S-Penk^{tm2(cre)}Hze/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 [RRID](#).

Jing J, et al. (2025) Molecular logic for cellular specializations that initiate the auditory parallel processing pathways. *Nature communications*, 16(1), 489.

Hamnett R, et al. (2025) Enteric glutamatergic interneurons regulate intestinal motility. *Neuron*, 113(7), 1019.

Mortessagne P, et al. (2024) Genetic labeling of embryonically-born dentate granule neurons in young mice using the PenkCre mouse line. *Scientific reports*, 14(1), 5022.

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).

Jing J, et al. (2023) Comprehensive analysis of cellular specializations that initiate parallel auditory processing pathways in mice. *bioRxiv : the preprint server for biology*.

Wang Q, et al. (2023) Regional and cell-type-specific afferent and efferent projections of the mouse claustrum. *Cell reports*, 42(2), 112118.

Wei XP, et al. (2022) A novel reticular node in the brainstem synchronizes neonatal mouse crying with breathing. *Neuron*, 110(4), 644.

Xu J, et al. (2022) Intersectional mapping of multi-transmitter neurons and other cell types in the brain. *Cell reports*, 40(1), 111036.

Yu H, et al. (2022) Social touch-like tactile stimulation activates a tachykinin 1-oxytocin pathway to promote social interactions. *Neuron*, 110(6), 1051.

Hage TA, et al. (2022) Synaptic connectivity to L2/3 of primary visual cortex measured by two-photon optogenetic stimulation. *eLife*, 11.

Hamnett R, et al. (2022) Regional cytoarchitecture of the adult and developing mouse enteric nervous system. *Current biology : CB*, 32(20), 4483.

Angueira AR, et al. (2021) Defining the lineage of thermogenic perivascular adipose tissue. *Nature metabolism*, 3(4), 469.

Graybuck LT, et al. (2021) Enhancer viruses for combinatorial cell-subclass-specific labeling. *Neuron*, 109(9), 1449.

Yao Z, et al. (2021) A taxonomy of transcriptomic cell types across the isocortex and hippocampal formation. *Cell*, 184(12), 3222.

Tran NM, et al. (2019) Single-Cell Profiles of Retinal Ganglion Cells Differing in Resilience to Injury Reveal Neuroprotective Genes. *Neuron*, 104(6), 1039.

Daigle TL, et al. (2018) A Suite of Transgenic Driver and Reporter Mouse Lines with Enhanced Brain-Cell-Type Targeting and Functionality. *Cell*, 174(2), 465.