

Resource Summary Report

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

B6;129S-Tac1^{tm1.1(cre)Hze/J}

RRID:IMSR_JAX:021877

Type: Organism

Proper Citation

RRID:IMSR_JAX:021877

Organism Information

URL: <https://www.jax.org/strain/021877>

Proper Citation: RRID:IMSR_JAX:021877

Description: Mus musculus with name B6;129S-Tac1^{tm1.1(cre)Hze/J} from IMSR.

Species: Mus musculus

Notes: gene symbol note: tachykinin 1|; mutant stock: Tac1|

Affected Gene: tachykinin 1|

Genomic Alteration: targeted mutation 1.1; Hongkui Zeng

Catalog Number: JAX:021877

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129S-Tac1^{tm1.1(cre)Hze/J}

Record Creation Time: 20250513T053744+0000

Record Last Update: 20260725T044451+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Tac1^{tm1.1(cre)Hze/J}.

No alerts have been found for B6;129S-Tac1^{tm1.1(cre)Hze/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 38 mentions in open access literature.

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

Feetham CH, et al. (2026) Analog of prolactin-releasing peptide reduces body weight primarily through sustained fatty acid oxidation rather than hypophagia. *Cell metabolism*, 38(1), 100.

Caccavano AP, et al. (2025) Divergent opioid-mediated suppression of inhibition between hippocampus and neocortex across species and development. *Neuron*, 113(11), 1805.

Suzuki KE, et al. (2025) Tachykinin 1-expressing neurons in the lateral habenula signal negative reward prediction error. *bioRxiv : the preprint server for biology*.

Naim G, et al. (2025) Optogenetics-integrated gut organ culture system connects enteric neurons dynamics and gut homeostasis. *Nature communications*, 16(1), 10010.

Tsutsui-Kimura I, et al. (2025) Dopamine in the tail of the striatum facilitates avoidance in threat-reward conflicts. *Nature neuroscience*, 28(4), 795.

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

Rakymzhan A, et al. (2025) Parvalbumin interneurons drive depth-dependent vascular responses. *iScience*, 28(12), 113965.

Caccavano AP, et al. (2024) Divergent opioid-mediated suppression of inhibition between hippocampus and neocortex across species and development. *bioRxiv : the preprint server for biology*.

M??dol L, et al. (2024) Somatostatin interneurons control the timing of developmental desynchronization in cortical networks. *Neuron*, 112(12), 2015.

Furdui A, et al. (2024) Mu-opioid receptors in tachykinin-1-positive cells mediate the respiratory and antinociceptive effects of the opioid fentanyl. *British journal of pharmacology*.

Touhara KK, et al. (2024) Crypt and Villus Enterochromaffin Cells are Distinct Stress Sensors in the Gut. *bioRxiv : the preprint server for biology*.

Rousseau JP, et al. (2023) Medullary tachykinin precursor 1 neurons promote rhythmic breathing. *eLife*, 12.

Li YT, et al. (2023) Functional cell types in the mouse superior colliculus. *eLife*, 12.

Chamberland S, et al. (2023) Functional specialization of hippocampal somatostatin-expressing interneurons. *bioRxiv : the preprint server for biology*.

Serra GP, et al. (2023) A role for the subthalamic nucleus in aversive learning. *Cell reports*, 42(11), 113328.

Shekhtmeyster P, et al. (2023) Multiplex translaminal imaging in the spinal cord of behaving mice. *Nature communications*, 14(1), 1427.

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

Wu SJ, et al. (2023) Cortical somatostatin interneuron subtypes form cell-type-specific circuits. *Neuron*, 111(17), 2675.

Bayless DW, et al. (2023) A neural circuit for male sexual behavior and reward. *Cell*, 186(18), 3862.

Kim SH, et al. (2022) Mapping of the Sensory Innervation of the Mouse Lung by Specific Vagal and Dorsal Root Ganglion Neuronal Subsets. *eNeuro*, 9(2).