

Resource Summary Report

Generated by [NIF](#) on Aug 19, 2026

[Bdnf^{tm1Jae}/Bdnf^{tm1Jae}](#)

RRID:MGI:2175720

Type: Organism

Proper Citation

RRID:MGI:2175720

Organism Information

URL:

Proper Citation: RRID:MGI:2175720

Description: Allele Detail: Targeted This is a legacy resource.

Species: Mus musculus

Notes: Allele Detail: Targeted This is a legacy resource.

Phenotype: abnormal sensory neuron innervation pattern, small L4 dorsal root ganglion, small trigeminal ganglion, small mesencephalic trigeminal nucleus, small vestibular ganglion, spinning, decreased sensory neuron number, small nodose ganglion, nervous system phenotype, abnormal vestibular nerve morphology, hearing/vestibular/ear phenotype, abnormal type I vestibular cell, decreased body size, postnatal lethality, incomplete penetrance, head bobbing, impaired balance, hyperactivity, impaired limb coordination, circling, head tilt, deafness, increased neuron apoptosis, abnormal trigeminal nerve morphology, small petrosal ganglion, small geniculate ganglion, small nodose ganglion, decreased sensory neuron number, small vestibular ganglion, abnormal vestibular ganglion morphology, abnormal innervation, abnormal fungiform papillae morphology, abnormal crista ampullaris morphology, abnormal cochlear ganglion morphology, postnatal lethality, incomplete penetrance, small L4 dorsal root ganglion, small nodose ganglion, small geniculate ganglion

Affected Gene: Bdnf

Genomic Alteration: tm1Jae

Catalog Number: 2175720

Background: involves: 129S4/SvJae

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Source References: [PMID:8139657](#), [PMID:12620975](#), [PMID:7746325](#), [PMID:10995552](#)

Organism Name: Bdnf^{tm1Jae}/Bdnf^{tm1Jae}

Record Creation Time: 20240120T190755+0000

Record Last Update: 20240130T202111+0000

Ratings and Alerts

No rating or validation information has been found for Bdnf^{tm1Jae}/Bdnf^{tm1Jae}.

No alerts have been found for Bdnf^{tm1Jae}/Bdnf^{tm1Jae}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Sar Shalom H, et al. (2019) Balance between BDNF and Semaphorins gates the innervation of the mammary gland. eLife, 8.