

Resource Summary Report

Generated by [NIF](#) on Aug 16, 2026

[Cacna1d^{tm1Jst}](#)/[Cacna1d^{tm1Jst}](#)

RRID:MGI:2181788

Type: Organism

Proper Citation

RRID:MGI:2181788

Organism Information

URL:

Proper Citation: RRID:MGI:2181788

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

Species: Mus musculus

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

Phenotype: prolonged RR interval, deafness, decreased heart rate, heart block, prolonged PR interval, abnormal sinoatrial node conduction, deafness, increased heart rate, abnormal heart rate, prolonged PR interval, cochlear outer hair cell degeneration, cochlear inner hair cell degeneration, increased or absent threshold for auditory brainstem response, abnormal cochlear inner hair cell physiology, abnormal cochlear outer hair cell physiology, atrioventricular block, abnormal distortion product otoacoustic emission, increased or absent threshold for auditory brainstem response, abnormal sinus arrhythmia, mortality/aging, sinus bradycardia, increased heart rate variability, abnormal myocardial fiber physiology, abnormal sinoatrial node conduction, atrial fibrillation, atrioventricular block, abnormal action potential, cochlear ganglion degeneration, abnormal cochlear inner hair cell physiology, homeostasis/metabolism phenotype, sensorineural hearing loss, absent pinna reflex, cochlear outer hair cell degeneration, abnormal calcium ion homeostasis

Affected Gene: Cacna1d

Genomic Alteration: tm1Jst

Catalog Number: 2181788

Background: involves: 129S7/SvEvBrd * C57BL/6J

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Source References: [PMID:17074442](#), [PMID:10929716](#), [PMID:26831068](#)

Organism Name: Cacna1d^{tm1Jst}/Cacna1d^{tm1Jst}

Record Creation Time: 20240120T190749+0000

Record Last Update: 20240130T202108+0000

Ratings and Alerts

No rating or validation information has been found for Cacna1d^{tm1Jst}/Cacna1d^{tm1Jst}.

No alerts have been found for Cacna1d^{tm1Jst}/Cacna1d^{tm1Jst}.

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](#) .

Ortner NJ, et al. (2017) Lower Affinity of Isradipine for L-Type Ca²⁺ Channels during Substantia Nigra Dopamine Neuron-Like Activity: Implications for Neuroprotection in Parkinson's Disease. The Journal of neuroscience : the official journal of the Society for Neuroscience, 37(28), 6761.