

Resource Summary Report

Generated by [NIF](#) on Sep 3, 2026

B6.CAST-Cdh23^{Ahl+}/Kjn

RRID:IMSR_JAX:002756

Type: Organism

Proper Citation

RRID:IMSR_JAX:002756

Organism Information

URL: <https://www.jax.org/strain/002756>

Proper Citation: RRID:IMSR_JAX:002756

Description: Mus musculus with name B6.CAST-Cdh23^{Ahl+}/Kjn from IMSR.

Species: Mus musculus

Synonyms: B6.CAST-Ahl+>. B6.CAST-Cdh23/J. B6.CAST-Cdh23/J

Notes: gene symbol note: cadherin related 23 (otocadherin); mutant strain|congenic strain: Cdh23

Affected Gene: cadherin related 23 (otocadherin)

Genomic Alteration: wild-type of age related hearing loss

Catalog Number: JAX:002756

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.CAST-Cdh23^{Ahl+}/Kjn

Record Creation Time: 20250513T053634+0000

Record Last Update: 20260829T044924+0000

Ratings and Alerts

No rating or validation information has been found for B6.CAST-Cdh23^{Ahl+}/Kjn.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human autosomal dominant nonsyndromic deafness 65.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Rolón-Martínez S, et al. (2026) Thalamic reticular neurons provide cell type-specific modulation of sound processing in the auditory thalamus. PLoS biology, 24(3), e3003693.

Tobin M, et al. (2025) Distinct Inhibitory Neurons Differently Shape Neuronal Codes for Sound Intensity in the Auditory Cortex. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(2).

Rolón-Martínez S, et al. (2024) Cell-specific inhibitory modulation of sound processing in the auditory thalamus. bioRxiv : the preprint server for biology.

Tobin M, et al. (2023) Localist versus distributed representation of sounds in the auditory cortex controlled by distinct inhibitory neuronal subtypes. bioRxiv : the preprint server for biology.

Sangiamo DT, et al. (2020) Ultrasonic signals associated with different types of social behavior of mice. Nature neuroscience, 23(3), 411.

Burghard AL, et al. (2019) Mice heterozygous for the Cdh23/Ahl1 mutation show age-related deficits in auditory temporal processing. Neurobiology of aging, 81, 47.

Warren MR, et al. (2018) Sex differences in vocal communication of freely interacting adult mice depend upon behavioral context. PloS one, 13(9), e0204527.