

CBACa.129S1(Cg)-*Coch*^{tm1.1Stw}/Mmjax

MMRRC Stock No: 34310-JAX

 Congenic, Targeted Mutation

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Mice homozygous for this *Coch* (coagulation factor C homolog) null allele exhibit vestibular dysfunction, hearing loss at the highest frequencies by 21 months. This mutant mouse strain may be useful in studies of late onset hearing loss.

Donating Investigator

Cynthia Morton, Brigham & Women's Hosp. , Harvard Med

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GENETIC OVERVIEW

Genetic Background

Generation

Coch^{tm1.1Stw}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Coch

cochlin

VIEW GENETICS

RESEARCH APPLICATIONS

Sensorineural Research

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

Details

Detailed Description

Homozygotes: Mice that are homozygous for the targeted mutation are viable, fertile and normal in size. Mice exhibit vestibular dysfunction by 13 and 21 months of age as determined by elevated measurements of the vestibular evoked potential (VsEP). Auditory brainstem response (ABR) testing at 21 months of age indicates hearing loss at the highest frequencies as determined by elevated or absent ABR thresholds. Histopathology at 21 months of age reveals no hair cell loss or obvious change in morphology. This mutant mouse strain may be useful in studies of late onset hearing loss.

Heterozygote:

Heterozygous mice do not have hearing loss, but exhibit the same vestibular malfunction at 21 months of age as the homozygous mice.

Development

Control Suggestions

Selected References

Genetics

Coch^{tm1.1Stw}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Standard PCR:[Coch](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

While maintaining a live colony, these mice are bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Citation

When using the CBACa.129S1(Cg)-*Coch*^{tm1.1Stw}/Mmjax mouse strain in a publication, please [cite the originating article\(s\)](#) and include MMRRC stock #34310 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)

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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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LICENSING INFORMATION

Phone: 207-288-6470

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