



# C3HeB/EyJ<sup>bor</sup>/J

Stock No: 002588 | branchio otorenal syndrome

Spontaneous Mutation



CRYO RECOVERY

PLACE ORDER

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

## Overview

Also Known As: branchio otorenal syndrome

These mice carry the mouse *Eya1<sup>bor</sup>* spontaneous insertional mutation that causes deafness and circling behavior.

READ MORE +

## GENETIC OVERVIEW

Genetic Background

Generation

## *Eya1<sup>bor</sup>*

Allele Type	Gene Symbol	Gene Name
Spontaneous	<i>Eya1</i>	EYA transcriptional coactivator and phosphatase 1

V I E W   G E N E T I C S

## RESEARCH APPLICATIONS

Mouse/Human Gene Homologs  
Internal/Organ Research  
Neurobiology Research  
Sensorineural Research  
Developmental Biology Research

V I E W   A L L   R E S E A R C H   A P P L I C A T I O N S

## BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W   P R I C E   L I S T

### Details

#### Important Note

This strain is homozygous for the retinal degeneration allele *Pde6b<sup>rd1</sup>*.

#### Detailed Description

The human Branchio-Oto-Renal Syndrome is generally a dominant disorder with incomplete penetrance and variable expressivity resulting from null mutations in the *EYA1* gene. The mouse *Eya1<sup>bor</sup>* allele is primarily a recessive hypomorphic mutation. Nevertheless, homozygous mice with this hypomorphic allele offer a good model for Branchio-Oto-Renal Syndrome. The phenotype of *Eya1<sup>bor</sup>/Eya1<sup>bor</sup>* mice parallels that of the human Branchio-Oto-Renal Syndrome and both are thought to result from reduced gene dosage. The *Eya1<sup>bor</sup>/Eya1<sup>bor</sup>* mice are deaf and their behavior is marked by circling and head-bobbing. They lack all but the most basal one-quarter of the cochlea, and the organ of Corti is completely absent. They have foreshortened, narrower semicircular canals and in some the common crus is incomplete. Their kidneys are absent or dysmorphic with greater severity generally on the left side. Fewer homozygotes than expected are born. During mapping crosses using CAST/Ei and C3H/HeJ, it was found that genetic background impacts both the kidney and inner ear phenotypes, and modifier genes in humans also may impact the severity of Branchio-Oto-Renal-Syndrome.

#### Development

#### Control Suggestions

## Genetics

[+ \*Eya1<sup>bor</sup>\*](#)

## Disease/Phenotype

[+ Disease Terms](#)

[+ Research Areas By Genotype](#)

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

## Technical Support

CHAT OFFLINE

CONTACT TECHNICAL SUPPORT

### Genotyping Protocols

Standard PCR: [Eya1<sup>bor</sup>](#)

[Genotyping resources and troubleshooting](#)

### Appearance

agouti, circling and head bobbing

Related Genotype: *A/A Eya1<sup>bor</sup>/Eya1<sup>bor</sup>*

agouti, unaffected

Related Genotype: *A/A Eya1<sup>bor</sup>/+* or *A/A Pde6b<sup>rd1</sup>/Pde6b<sup>rd1</sup> +/?*

### Citation

When using the branching otoregal syndrome mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002588 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

*Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200*

## Pricing & Availability



Cryo Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

## Cryorecovery - Domestic Pricing

SERVICE	GENOTYPE	PRICE
Cryo Recovery	Heterozygous or Wild-type for Eya1<bor>	\$2,854.50

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a [Dedicated Supply](#) for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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### Terms of Use

[General Terms and Conditions](#)

Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

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By Allele

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