

**STOCK *Esrrb*<sup>tm1.1Nat</sup> /J**  
Stock No: **007674** | NR3B2<sup>CKO</sup>

 Targeted Mutation

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

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inner ear development (such as endolymph-producing epithelia within the auditory and vestibular divisions), and control of cell fate decisions by nuclear receptors.

### Donating Investigator

Jeremy Nathans, Johns Hopkins University

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## GENETIC OVERVIEW

Genetic Background

Generation

*Esrrb*<sup>tm1.1Nat</sup>

**Allele Type**

Targeted (Conditional ready (e.g. floxed), No functional change)

**Gene Symbol**

*Esrrb*

**Gene Name**

estrogen related receptor, beta

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology Research  
Internal/Organ Research  
Research Tools  
Sensorineural Research

VIEW ALL RESEARCH APPLICATIONS

## 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

#### – Detailed Description

Mice homozygous for this  $Nr3b2^{CKO}$  allele possess *loxP* sites flanking exon 2 of the targeted gene and are viable and fertile. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have the exon containing the initiator methionine codon and encoding the N-terminal 132 amino acids (including part of the DNA-binding domain) deleted in the *cre*-expressing tissue(s). Of note, if the conditional  $Nr3b2^{CKO}$  is deleted by Cre recombinase in the placenta and embryo, embryonic lethality will result (placental defect). If the conditional  $Nr3b2^{CKO}$  is deleted by Cre recombinase only in the embryo, the resulting mice exhibit an inner ear defect (decreased endolymph production) resulting in deafness and defective balance. These  $Nr3b2^{CKO}$  mutant mice may be useful in generating conditional mutations to study disorders of hearing and balance, inner ear development (such as endolymph-producing epithelia within the auditory and vestibular divisions), and control of cell fate decisions by nuclear receptors.

When bred to a strain expressing Cre recombinase in the nervous system (see Stock No. [003771](#) for example), this mutant mouse strain may be useful in studies of endolymph producing epithelial cells.

When bred to a strain expressing Cre recombinase in epiblast derived cells (see Stock No. [004783](#), [008454](#) for example), this mutant mouse strain may be useful in studies of endolymph producing epithelial cells.

#### + Development

#### + Control Suggestions

#### + Selected References

### – Genetics

#### + *Esrrb<sup>tm1.1Nat</sup>*

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## ⊖ Disease/Phenotype

+ [Disease Terms](#)

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+ [Research Areas By Phenotype](#)

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+ [Mammalian Phenotype Terms by Genotype](#)

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+ [References](#)

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## ⊖ Technical Support

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

### Genotyping Protocols

Standard PCR:[Esrrb](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the NR3B2<sup>CKO</sup> mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007674 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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## ⊖ Pricing & Availability



Cryo

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/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Esrrb<tm1.1Nat>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK Esrrb<tm1.1Nat>/J Frozen Embryo	\$2595.00
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## PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

## THE JACKSON LABORATORY'S GENOTYPE PROMISE

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.

## Terms Of Use

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## LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

Related Strains

All

By Allele

By Gene

By Collection



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