

**B6(Cg)-Nr6a1** <sup>*tm1c(EUCOMM)Wtsi*</sup> /J

Stock No: **023803**

 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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the ligand binding domain, is deleted.

### Donating Investigator

David Page, Whitehead Institute for Biomedical Research

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## GENETIC OVERVIEW

Genetic Background

Generation

*Nr6a1*<sup>*tm1c(EUCOMM)Wtsi*</sup>

**Alele Type**

**Gene Symbol**

**Gene Name**

Targeted (Conditional ready  
(e.g. floxed))

*Nr6a1*

nuclear receptor subfamily 6, group A, member 1

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

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

*Nr6a1* (nuclear receptor subfamily 6, group A, member 1; also called *Gcnf*) is expressed in fetal ovarian cells, peaking at embryonic day 14.5 (E14.5). Both somatic stem cells and embryonic stem cells require NR6A1 to silence the activities of *Pou5f1* (POU domain, class 5, transcription factor 1; also called *Oct4*) and *Nanog* (Nanog homeobox) in the transition from pluripotent to differentiated cell state. Interestingly, the gene is not required for this process in fetal ovarian germ cells and it is not required for initiation of meiosis and oogenesis.

Exon 7 of the *Nr6a1* gene, encoding the beginning of the ligand binding domain, is flanked by loxP sites in this mutant strain. Homozygous floxed animals are phenotypically normal for gross morphology, behavior, fertility, and viability.

*Cre*-mediated recombination can be carried out to produce a knockout allele in which exon 7 is deleted. Crosses with tamoxifen-inducible UBC-cre/ERT2 mice (e.g. Stock No. [008085](#)) produce a widespread knockout of the gene. Homozygous knockout embryos die prenatally and display reduced size, impaired neural tube closure, and failure to turn from the lordotic to the fetal position.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Nr6a1*<sup>tm1c(EUCOMM)Wtsi</sup>

### 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:[Nr6a1](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Heterozygous and homozygous floxed mice are viable and fertile.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6(Cg)-*Nr6a1*<sup>tm1c(EUCOMM)Wtsi</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #023803 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](#)*

## [- 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 NOT-FOR-PROFIT & ACADEMIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous for Nr6a1<tm1c(EUCOMM)Wtsi>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6(Cg)-Nr6a1<tm1c(EUCOMM)Wtsi>/J Frozen Embryo	\$2595.00
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## PAYMENT TERMS AND CONDITIONS

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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

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

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All

By Allele

By Gene

By Collection



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