

C57BL/6-Tg(CD4-II17re)#Cdon/J

Stock No: 017943

Coisogenic, Transgenic

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

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### Donating Investigator

Chen Dong, MD Anderson Cancer Center

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(CD4-II17re)#Cdon

#### Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

## RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

Hematological Research

Research Tools

Cardiovascular 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

These mice express a full-length interleukin 17 receptor E (*Il17re*) cDNA under the control of the human CD4 antigen promoter. IL-17RE is a cytokine receptor expressed in Th17 cells, which interacts with IL-17C. Th17 cells regulate the recruitment of neutrophils and macrophages, and are implicated in the development of inflammatory and autoimmune diseases. Through this receptor-ligand interaction, IL-17RE regulates Th17 differentiation and autoimmune diseases. These mice exhibit accelerated onset and severity of experimental autoimmune encephalomyelitis (EAE), an inflammatory demyelinating disease of the central nervous system, when treated with Myelin Oligodendrocyte Glycoprotein (MOG)<sup>35-55</sup>. Symptoms include an increase in infiltrating mononuclear cells in CNS, an increase in the expression of  $\text{kB}\zeta$ , and an increase in the production of IL17A, IL17F, and IL22.

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### Tg(CD4-Il17re)#Cdon

### Disease/Phenotype

#### Disease Terms

[+ 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

Separated PCR:[Tg\(CD4-Il17re\)#Cdon](#)

Standard PCR:[Tg\(CD4-Il17re\)#Cdon](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype (noncarrier) mice from the colony or C57BL/6J inbred mice (Stock No. [000664](#)).

[Additional Breeding and Husbandry Support](#)

#### Citation

When using the C57BL/6-Tg(CD4-Il17re)#Cdon/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017943 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 PRICING**

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Hemizygous or Non Carrier for Tg(CD4-II17re)#Cdon	\$2,854.50

RELATED PRODUCTS AND SERVICES		
<a href="#">Frozen Mouse Embryo</a>	C57BL/6-Tg(CD4-II17re)#Cdon/J	\$2595.00

## 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

### TERMS OF USE

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

### 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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