

B6.FVB-Tg(Cdh5-cre)7Mlia/J

Stock No: **006137** | VE-Cadherin-Cre (VE-CRE)

 Congenic, Transgenic

Live mice available in varying quantities. Ask Customer Service for details.

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Cre-mediated recombination will result in deletion of the flanked genome. These mice may be useful in studies of the cardiovascular system.

Donating Investigator

M. Luisa Iruela-Arispe, University of California, Los Angeles

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GENETIC OVERVIEW

Genetic Background

Generation

N12+N2F10
(2020-04-29 00:00:00)

Tg(Cdh5-cre)7Mlia

Alele Type

Transgenic (Recombinase-expressing)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Cardiovascular Research

Hematological Research

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

V I E W P R I C E L I S T

Details

Detailed Description

Hemizygotes and homozygotes are viable, fertile, normal in size, and do not display any gross physical or behavioral abnormalities. In the differentiated endothelium transgene expression is observed as early as E7.5 and progresses to almost full penetrance by E14.5. In adult mice, uniform *cre* expression is observed in the endothelium of developing and quiescent vessels of all organs examined, as well as within a subset of hematopoietic cells. When bred with any mouse containing a *loxP*-flanked sequence of interest, Cre-mediated recombination will result in deletion of the flanked genome. These mice may be useful in studies of the cardiovascular system, including angiogenesis, and endothelial and hematopoietic cell lineages.

Cre activity is seen in 20%-40% of the fetal liver population and 52% of the adult bone marrow. These mice exhibit less efficient *cre*-mediated recombination than B6.Cg-Tg(Cdh5-cre)1Spe/J mice (Stock No. [017968](#)), in which *cre* activity is seen in 85% of the fetal liver population and 96% of adult bone marrow.

[View](#) cre expression characterization.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Cdh5-cre)7Mlia

– Disease/Phenotype

+ [Disease Terms](#)

+ [Research Areas By Phenotype](#)

+ [Mammalian Phenotype Terms by Genotype](#)

+ [References](#)

– 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

Probe: [Generic Cre Probe](#)

QPCR: [Generic Cre Quantitative PCR](#)

Standard PCR: [Generic Cre](#)

Separated PCR: [Tg\(Cdh5-cre\)⁷Mlia-alternate1](#)

Standard PCR: [Generic Cre Melt Curve Analysis](#)

Standard PCR: [Tg\(Cdh5-cre\)⁷Mlia-alternate2](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, hemizygotes can be bred to wildtype siblings, C57BL/6J, or bred together to generate homozygous colonies.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the VE-Cadherin-Cre (VE-CRE) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006137 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

– Pricing & Availability



Live mice available in varying quantities. Ask Customer Service for details.

Available

Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

| Live Mouse | | | |
|------------|--------|----------------------------------|----------|
| AGE | SEX | GENOTYPE | PRICE |
| 4 weeks | Female | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| | Male | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| 5 weeks | Female | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| | Male | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| 6 weeks | Female | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| | Male | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| 7 weeks | Female | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| | Male | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| 8 weeks | Female | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| | Male | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| 9 weeks | Female | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| | Male | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| 10 weeks | Female | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| | Male | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| 11 weeks | Female | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| | Male | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| 12 weeks | Female | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |
| | Male | Homozygous for Tg(Cdh5-cre)7Mlia | \$255.00 |

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