



# STOCK Tg(Krt8-cre/ERT2)17Blpn/J

Stock No: 017947 | K8-CreER

Transgenic



AVAILABLE

PLACE ORDER

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

## Overview

### Also Known As: K8-CreER

These K8-CreER transgenic mice express the Cre-ERT2 fusion gene under control of the mouse *Krt8* promoter. They may have applications related to lineage tracing. When bred with mice containing a *loxP*-flanked sequence, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the flanked sequences in mammary gland luminal epithelial cells.

### Donating Investigator

Cedric Blanpain, Universite Libre de Bruxelles

READ MORE +

## GENETIC OVERVIEW

Genetic Background

Generation

F?pN1+N3F11

(2020-01-02 00:00:00)

**Tg(Krt8-cre/ERT2)17B|pn**

Allele Type

Transgenic (Recombinase-expressing, Inducible)

[VIEW GENETICS](#)

## RESEARCH APPLICATIONS

Research Tools

[VIEW ALL RESEARCH APPLICATIONS](#)

## BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

356.51 Domestic price for breeder pair

[VIEW PRICE LIST](#)

### Details

#### Detailed Description

Keratin 8 is an intermediate filament cytoskeleton protein and is protective in TNF- and Fas-mediated apoptosis. Merkel cells are neuroendocrine cells found in touch domes (mechanoreceptor zones in the skin) of the epithelial basal layer and some mucosa. Merkel cells express both intermediate filaments and neuropeptides. These transgenic mice express CreERT2 under the direction of the mouse *Krt8*, keratin 8, promoter. When these K8-CreER mice, founder line 17, are bred with mice containing a *loxP*-flanked sequence of interest, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the flanked sequences in Merkel cells and simple epithelia. When bred to ROSA-YFP reporter mice, pulse/chase administration of tamoxifen results in the fluorescent labeling of mammary gland luminal epithelial cells. Mice that are homozygous for the targeted mutation are viable, fertile and normal in size. The Donating Investigator reports that there is no difference in phenotype between hemizygotes and homozygotes.

#### Development

#### Expression Data

[+ Control Suggestions](#)

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[+ Selected References](#)

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## [- Genetics](#)

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[+ Tg\(Krt8-cre/ERT2\)17Blpn](#)

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## [- Disease/Phenotype](#)

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[+ Disease Terms](#)

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[+ Research Areas By Genotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## [- Technical Support](#)

C H A T   O  F L I N E

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: [Generic Cre](#)

[Genotyping resources and troubleshooting](#)

### Dietary Information

New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

### Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

### Mating System

Noncarrier x Hemizygote

Hemizygote x Noncarrier

### Citation

When using the K8-CreER mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017947 in your

[Materials and Methods section](#)

[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	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
	Male	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
4 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
5 weeks	Female	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
	Male	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
5 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
6 weeks	Female	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
	Male	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
6 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
7 weeks	Female	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
	Male	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
7 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
8 weeks	Female	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
	Male	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
8 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
9 weeks	Female	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
	Male	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
9 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
10 weeks	Female	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
	Male	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
10 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
11 weeks	Female	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
	Male	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
11 weeks	Female	Noncarrier	\$78.51

	SEX	Noncarrier	\$78.51
12 weeks	Female	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
	Male	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn	\$278.00
12 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51

Breeder Pair			PRICE
SEX	GENOTYPE		
Female	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn		\$356.51
Male	Noncarrier		
Female	Noncarrier		\$356.51
Male	Hemizygous for Tg(Krt8-cre/ERT2)17Blpn		

Related Products and Services		
Frozen Mouse Embryo	<a href="#">STOCK Tg(Krt8-cre/ERT2)17Blpn/J</a>	\$2595.00

## Payment Terms and Conditions

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### Terms of Use

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