

## B6.Cg-Tg(Ins1-cre/ERT)1Lphi/J

Stock No: **024709** | MIP-Cre/ERT

 Congenic, Transgenic

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

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### Donating Investigator

Louis H. Philipson, The University of Chicago

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## GENETIC OVERVIEW

### Genetic Background

### Generation

N10+pN5F10  
(2021-05-11 00:00:00)

## Tg(Ins1-cre/ERT)1Lphi

### Allele Type

Transgenic (Recombinase-expressing, Inducible)

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Diabetes and Obesity Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

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\$278.00 Domestic price for female 4-week

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356.51 Domestic price for breeder pair

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

### Details

#### Detailed Description

These transgenic mice express a tamoxifen-inducible Cre recombinase (cre/ERT) driven by the mouse *Ins1*, insulin I, promoter. Restricted to the cytoplasm, the cre/ERT protein can only gain access to the nuclear compartment after exposure to tamoxifen. When crossed with a strain containing a loxP site flanked sequence, the offspring are useful for generating tamoxifen-induced, Cre-mediated targeted deletions of the flanked sequence. Inducible Cre recombinase activity is detected specifically in the pancreatic beta cells, and is not detected in the brain, pancreatic alpha cells, liver, fat, skeletal muscle, spleen, lungs, small intestine, large intestine, kidney, heart, eyes, testes or ovaries. No alteration of pancreatic beta cell physiology is detected. The Donating Investigator has not attempted to make the strain homozygous.

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#### Development

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#### Expression Data

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#### Control Suggestions

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#### Selected References

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### Genetics

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#### Tg(*Ins1-cre/ERT*)1Lphi

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### Disease/Phenotype

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#### 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

QPCR: [Tg\(Ins1-cre/ERT\)1Lphi-qPCR](#)

Standard PCR: [Tg\(Ins1-cre/ERT\)1Lphi](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred together, to wildtype siblings, or to C57BL/6J inbred mice (Stock No. [000664](#)). The Donating Investigator has not attempted to make the strain homozygous.

[Additional Breeding and Husbandry Support](#)

### Mating System

Hemizygote x Noncarrier

Noncarrier x Hemizygote

### Citation

When using the MIP-Cre/ERT mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #024709 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	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
	Male	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
4 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
5 weeks	Female	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
	Male	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
5 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
6 weeks	Female	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
	Male	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
6 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
7 weeks	Female	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
	Male	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
7 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
8 weeks	Female	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
	Male	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
8 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
9 weeks	Female	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
	Male	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
9 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
10 weeks	Female	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
	Male	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
10 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
11 weeks	Female	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
	Male	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
11 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
12 weeks	Female	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
	Male	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$278.00
12 weeks	Female	Noncarrier	\$78.51

Male	Noncarrier	\$78.51
SEX		

BREEDER PAIR		
SEX	GENOTYPE	PRICE
Female	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	\$356.51
Male	Noncarrier	
Female	Noncarrier	\$356.51
Male	Hemizygous for Tg(Ins1-cre/ERT)1Lphi	

RELATED PRODUCTS AND SERVICES		
<a href="#">Frozen Mouse Embryo</a>	B6.Cg-Tg(Ins1-cre/ERT)1Lphi/J Frozen Embryo	\$2595.00

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## LICENSING INFORMATION

Phone: 207-288-6470

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

### Related Strains

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By Gene

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