

FVB.Cg-Tg(KRT5-cre/ERT2)2lpc/JeldJ

Stock No: **018394** | K5-Cre-ER^{T2}

 Congenic, Transgenic

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

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K5-Cre-ERT2 transgenic mice express tamoxifen-inducible Cre recombinase under the direction of the bovine keratin 5 (*KRT5*) promoter/enhancer regions. They are useful for applications requiring tamoxifen-induced deletion of floxed sequences in epithelial cells.

Of note, a C57BL/6-congenic Krt5-CreERT2 knock-in allele is also available (Stock No. [029155](#)).

Donating Investigator

James T. Elder, University of Michigan

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(KRT5-cre/ERT2)2lpc

Alele Type

Transgenic (Recombinase-expressing, Inducible)

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

Expression in this $Cre-ER^{T2}$ transgenic line is directed by the bovine keratin 5 (*KRT5*) promoter/enhancer regions. These mice express $Cre-ER^{T2}$ protein in epithelial cells. Restricted to the cytoplasm, $Cre-ER^{T2}$ can only gain access to the nuclear compartment after exposure to tamoxifen. Mice hemizygous for the *KRT5-creER^{T2}* transgene are viable and fertile. When these mice are bred with mice containing *loxP*-flanked sequence, tamoxifen-inducible, *Cre*-mediated recombination will result in deletion of the floxed sequences in the *Cre*-expressing cells of the offspring.

For example, when bred to B6.129(SJL)-*Foxn1*^{tm1.1Dmsu}/J mice (Stock No. [012941](#)), the resulting mice develop significant thymic atrophy due to increased apoptosis associated with p53 activation.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(KRT5-cre/ERT2)2lpc

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

QPCR:[Generic Cre Quantitative PCR](#)

Standard PCR:[Generic Cre](#)

Standard PCR:[Tg\(KRT5-cre/ERT2\)2lpc Alternate1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype (non-carrier) mice from the colony or to FVB/NJ inbred mice (Stock No. [001800](#)).

[Additional Breeding and Husbandry Support](#)

Mating System

Noncarrier x Hemizygote

Hemizygote x Noncarrier

Citation

When using the K5-Cre-ER^{T2} mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #018394 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.

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or Non carrier for Tg(KRT5-cre/ERT2)2lpc	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	FVB.Cg-Tg(KRT5-cre/ERT2)2lpc/JeldJ	\$2595.00
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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

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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Yes No