

STOCK Tg(Cela1-cre/ERT)1Lgdn/J

Stock No: 025736

 Transgenic

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

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pancreatitis.

Donating Investigator

Craig Logsdon, The University of Texas MD Anderson Cancer Center

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Cela1-cre/ERT)1Lgdn

Alele Type

Transgenic (Recombinase-expressing, Inducible)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Endocrine Deficiency 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

Mice homozygous for the *BAC-Ela-CreErT* transgene are viable and fertile. These mice express Cre-ERTM directed by the endogenous *Cela1* (chymotrypsin-like elastase family, member 1, also known as pancreatic elastase I) promoter/enhancer regions on the BAC transgene. ELA1 is a serine protease expressed in pancreatic acinar cells. When these mice are bred with mice containing *loxP*-flanked sequence, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the floxed sequences.

When bred to B6.129S4-*Gt(ROSA)26Sor^{tm1Sor}* /J mice (Stock No. [003474](#))

spontaneous cre activity in the offspring results in β -gal staining in 40-50% of pancreatic acinar cells at 2 months of age and the spontaneous recombination increases with age. After tamoxifen induction, β -gal staining is evident in 100% of pancreatic acinar cells. However, the donating investigator has found that when the *BAC-Ela-CreErT* transgene were bred with FVB background mice (eg. FVB.129S6(B6)-*Gt(ROSA)26Sor^{tm1(Luc)Kael}* /J mice, Stock No. [005125](#)), there is no spontaneous recombination. In these mice, the recombination was very low even after tamoxifen induction and low level of recombination was also observed in salivary gland.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Cela1-cre/ERT)1Lgdn

⊖ 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](#)

Standard PCR:[Generic Cre/ERT2 alternate1](#)

Standard PCR:[Tg\(Cela1-cre/ERT\)1Lgdn](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Hemizygote x Noncarrier

Noncarrier x Hemizygote

Citation

When using the STOCK Tg(Cela1-cre/ERT)1Lgdn/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #025736 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



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Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Hemizygous or non carrier for Tg(Cela1-cre/ERT)1Lgdn	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK Tg(Cela1-cre/ERT)1Lgdn/J Frozen Embryo	\$2595.00
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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.

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TERMS OF USE

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ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

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By Gene

By Collection



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