Overview

Mice express tamoxifen-inducible Cre recombinase under the direction of the Cela1 promoter in pancreatic acinar cells making them useful for studying pancreatic physiology and pathophysiology involved in pancreatic cancer and chronic pancreatitis.

Donating Investigator
**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tg(Cela1-cre/ERT)1Lgdn</td>
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**Allele Type**

Transgenic (Recombinase-expressing, Inducible)

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**RESEARCH APPLICATIONS**

Endocrine Deficiency Research
Research Tools

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**BASE PRICE**

Starting at:

$2,854.50 Domestic price Cryo Recovery

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**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 1) 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<sup>tm1Sor</sup> /J mice (Stock No. 003474) spontaneous cre activity in the offspring results in -gal staining in 40-50% of pancreatic acinar cells at 2 months of age and the spontaneous recombination increases with age. After tamoxifen induction, -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<sup>tm1LacZaei</sup> /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.
Genotyping Protocols
Probe: Generic Cre Probe
MELT: Tg(Cela1-cre/ERT)1Lgdn
MELT: Generic Cre/ERT2 alternate1
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 G200K Tg Cela1-cre/ERT1Lgdn/J mouse strain in a publication, please cite the originating articles and include JAX stock #025736 in your Materials and Methods section.

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200
Pricing & Availability

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

Domestic | International
Pricing effective for USA, Canada and Mexico shipping destinations

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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or non carrier for Tg(Cela1-cre/ERT)1Lgdn</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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Email: TechTran@jax.org

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By Allele