B6.FVB-Tg(Myh11-cre/ERT2)1Soff/J

Stock No: 019079 | SMMHC-CreER\textsuperscript{T2}

Congenic, Transgenic

PLACE ORDER

3–6 week lead time for most orders depending on quantity and age range requested

Overview

Also Known As: SMMHC-CreER\textsuperscript{T2}

These mice may be useful for the conditional deletion of genes in smooth muscle cells.
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
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<tbody>
<tr>
<td>?pN2</td>
<td>(2017-08-03 00:00:00)</td>
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**Tg(Myh11-cre/ERT2)1Soff**

**Allele Type**

Transgenic (Recombinase-expressing, Inducible)

RESEARCH APPLICATIONS

Research Tools

BASE PRICE

Starting at:

- $0.00 Domestic price for male
- $331.22 Domestic price for breeder pair

VIEW PRICE LIST

Details

**Detailed Description**

Male SMMHC-CreER T2 transgenic mice are viable and fertile, with expression of CreER T2 under control of the mouse smooth muscle myosin, heavy polypeptide 11, smooth muscle (Myh11) promoter/enhancer regions on the BAC transgene. The donating investigator reports that the BAC transgene inserted on the Y Chromosome. Myh11, also known as SMMHC, is a contractile protein expressed only in smooth muscle cells. When SMMHC-CreER T2 males are bred with females containing loxP-flanked sequence, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the floxed sequences in the smooth muscle cells of the offspring.

The Cre-ERT2 fusion protein consists of Cre recombinase fused to a triple mutant form of the human estrogen receptor which does not bind its natural ligand (17-estradiol) at physiological concentrations but will bind the synthetic estrogen receptor ligands 4-
hydroxytamoxifen (OHT or tamoxifen) and, with lesser sensitivity, ICI 182780. Restricted to the cytoplasm, Cre-ERT2 can only gain access to the nuclear compartment after exposure to tamoxifen. To counteract the mixed estrogen agonist effects of tamoxifen injections, which can result in late fetal abortions in pregnant mice, progesterone may be coadministered.

Genotyping Protocols
MELT: Tg(Myh11-cre/ERT2)1Soff Alternate1
Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
When maintaining a live colony, male transgenic mice may be bred to females from the colony or C67BL/6 (Stock No. 000664) females. The donating investigator reports that the BAC transgene inserted in the Y chromosome.

Mating System
Noncarrier x Hemizygote
Pricing & Availability

3–6 week lead time for most orders depending on quantity and age range requested

Repository Live

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

**Live Mouse**

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Noncarrier</td>
<td>$76.22</td>
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<tr>
<td>Approx 4-8 weeks</td>
<td>Male</td>
<td>Hemizygous for Tg(Myh11-cre/ERT2)1Soff</td>
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**Breeder Pair**

<table>
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<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Female</td>
<td>Noncarrier</td>
<td>$331.22</td>
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<tr>
<td>Male</td>
<td>Hemizygous for Tg(Myh11-cre/ERT2)1Soff</td>
<td></td>
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