STOCK Tg(KRT14-cre/ERT)20Efu/J

Stock No: 005107 | K14-CreER<sub>tam</sub>

Transgenic

REPOSITORY LIVE

PLACE ORDER

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

Overview

Also Known As: K14CreERT, K14–CreER<sub>tam</sub>

These transgenic mice have a tamoxifen inducible Cre-mediated recombination system driven by the human keratin 14 (KRT14) promoter, which is active in dividing cells of epidermis and some other stratified squamous epithelia. When crossed with a strain containing a loxP site flanked sequence of interest, the offspring can be used to generate tamoxifen-induced, Cre-mediated targeted keratinocyte-specific deletions. This strain may be useful for studying somatic mutations of the skin, including squamous and basal cell carcinomas.
**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
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<td>F7*2pF14 (2018-04-16 00:00:00)</td>
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**Tg(KRT14-cre/ERT)20Ef**

**Allele Type**
Transgenic (Recombinase-expressing, Inducible)

**RESEARCH APPLICATIONS**
Dermatology Research
Research Tools
Developmental Biology Research

**BASE PRICE**
Starting at:
$271.00 Domestic price for female

**Details**

**Detailed Description**

These transgenic mice have a tamoxifen inducible Cre-mediated recombination system driven by the human keratin 14 (KRT14) promoter. The transgene insert contains a fusion product involving Cre recombinase and a mutant form of the mouse estrogen receptor ligand binding domain. The mutant mouse estrogen receptor does not bind natural ligand at physiological concentrations but will bind the synthetic ligand, 4-hydroxytamoxifen (tamoxifen). Restricted to the cytoplasm, the cre/Esr1 protein can only gain access to the nuclear compartment after exposure to tamoxifen. When crossed with a strain containing a loxP site flanked sequence of interest, the offspring are useful for generating tamoxifen-induced, Cre-mediated targeted keratinocyte-specific deletions. Oral tamoxifen administration induces Cre recombination in toe, back skin and tongue. Topically administered tamoxifen induces Cre-mediated recombination in a specific localized area of the skin, occuring in 50 to 60% of the cells in the epidermis. Hem/zygous
mutant mice are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities.
Pricing & Availability

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

Repository Live

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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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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</thead>
<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Tg(KRT14-cre/Esr1)20EfU</td>
<td>$271.00</td>
</tr>
<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Tg(KRT14-cre/Esr1)20EfU</td>
<td>$271.00</td>
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</tbody>
</table>

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Terms of Use
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### Related Strains

- **All**
- **By Allele**
- **By Gene**