B6.FVB-Tg(Stra8-cre)1Reb/LguJ

Stock No: 017490 | Stra8-iCre

Congenic, Transgenic

CRYO RECOVERY

PLACE ORDER

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

Overview

Also Known As: Stra8-iCre

These Stra8-cre transgenic mice have expression of Cre recombinase (iCre) directed by the Stra8 genomic promoter fragment, and
may be useful in generating conditional knockouts in postnatal, premeiotic, male germ cells for studying spermatogenesis.

Donating Investigator
Leonard P Guarente, Massachusetts Institute of Technology

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tg(Stra8-cre)1Reb</td>
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Allele Type
Transgenic (Recombinase-expressing)

RESEARCH APPLICATIONS
Research Tools
Reproductive Biology Research

BASE PRICE
Starting at:

$2,854.50 Domestic price Cryo Recovery

Details

Homozygous Stra8-cre transgenic mice are viable and fertile, with expression of an optimized variant of Cre recombinase (iCre) directed by the 1.4 kb mouse Stra8 (stimulated by retinoic acid gene 8) genomic promoter fragment. Postnatal Cre-recombinase expression is first observed in testes at postnatal day (P)3 (early-stage spermatogonia), increases out to P7 (pre-leptotene-stage spermatocytes), and is not detected in other tissues examined (including ovaries). In addition, no cre expression is reported in male or female embryos. When Stra8-cre transgenic males are bred with female mice containing a loxP-flanked sequence, Cre-mediated recombination will result in deletion of the floxed sequence, specifically during these stages of spermatogenesis. The Donating Investigator has not attempted to make the congenic B6 strain homozygous. As Stra8-cre transgene expression is specific to developing sperm, transmission of the transgene must be through the male germline for experiments involving cre-induced
In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

### Genotyping Protocols

**Standard PCR:**

- Generic iCre
- Genotyping resources and troubleshooting

### Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred together, to wildtype siblings, or to C57BL/6J inbred mice (Stock No. 000664). The Donating Investigator has not attempted to make the congenic B6 strain homozygous. As Stra8-cre transgene expression is specific to developing sperm, transmission of the transgene must be through the male germline for experiments involving cre-induced recombination.

**Additional Breeding and Husbandry Support**
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.

<table>
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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 Tgl(Stra8-cre)1Reb</td>
<td>$2,854.50</td>
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</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 | B6.FVB-Tgl(Stra8-icre)1Reb/LguJ Frozen Embryo | $2595.00 |

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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