B6(129X1)-Ighg1 em1(cre/ERT2)Rsky/J

Stock No: 032860 | C 1-CreERT2

Endonuclease-Mediated Mutation

CRYO RECOVERY

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

Also Known As: C 1-CreERT2
C 1-CreERT2 knock-in mice have a cre/ERT2 fusion gene inserted into the 3' UTR of the immunoglobulin heavy constant gamma 1 (G1m marker) (Ighg1) gene. These mice are useful when studying normal and malignant germinal center B cell development in vivo.

Donating Investigator
Klaus Rajewsky, Max Delbruck Centre for Molecular Medicine

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Genetic Background

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Endonuclease-mediated</td>
<td>Ighg1</td>
<td>immunoglobulin heavy constant gamma 1 (G1m marker)</td>
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<tr>
<td>(Recombinase-expressing, Inducible)</td>
<td></td>
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</table>

VIEW GENETICS

Immunology, Inflammation and Autoimmunity Research
Research Tools

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CRISPR/cas9 endonuclease mediated genome editing of the immunoglobulin heavy constant gamma 1 (Ighg1; aka C 1) gene was used to insert a cre/ERT2 fusion gene into the 3' UTR in these C 1-CreERT2 knock-in mice. C 1 is expressed by germinal center and post-germinal center B cells. Mice that are homozygous for this allele are viable and fertile. When bred with mice containing loxP-flanked sequence, tamoxifen-inducible Cre-mediated recombination will result in deletion of the floxed sequence in a small subset of germinal center B cells. These mice are useful when studying normal and malignant germinal center B cell development in vivo.
Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

Mating System
Heterozygote x Wild-type
Wild-type x Heterozygote

Citation
When using the C57BL/6J-Tg(ERT2) mouse strain in a publication, please cite the originating article(s) and include JAX stock #032860 in your Materials and Methods section.

Facility Barrier Level Descriptions
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>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Ighg1&lt;em1(cre/ERT2)Rsky&gt;</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.

Cryo recovery 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.

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Terms of Use
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<td>By Gene</td>
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<td>By Collection</td>
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All Related Strains