B6;129-Abcg2<sup>tm2.1(creERT2)Bsr</sup>/J

Stock No: 021961

Targeted Mutation

CRYO RECOVERY

PLACE ORDER

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

An internal ribosome entry site (IRES)-CreERT2 fusion protein and a polyadenylation signal were placed downstream of the endogenous stop codon of the ATP-binding cassette, sub-family G (WHITE), member 2 Abcg2 gene. These mice may be useful for hematopoietic lineage tracking.

Donating Investigator

Brian P. Sorrentino, St. Jude Children’s Research Hospital

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abcg2&lt;sup&gt;tm3.1(cre/ERT2)Bsor&lt;/sup&gt;</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Recombinase-expressing, Inducible, Hypomorph)</td>
<td>Abcg2</td>
<td>ATP binding cassette subfamily G member 2 (Junior blood group)</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Research Tools
Developmental Biology Research

BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery

Details

Detailed Description

In this strain, an internal ribosome entry site (IRES)-CreERT2 fusion protein and a polyadenylation signal were placed downstream of
the endogenous stop codon of the ATP-binding cassette, sub-family G (WHITE), member 2 Abcg2 gene. ABCG2 is a transporter expressed in hematopoietic stem cells and is involved in cellular detoxification and protection from toxins. Homozygotes are viable and fertile. Cre expression is seen in hematopoietic cells of renal proximal tubules, testicular germ cells, small intestine, liver, and cardiac and skeletal muscle. Reduced expression is seen in the kidney and liver compared to wildtype. When these mice are bred with mice containing loxP-flanked sequence, tamoxifen-inducible, Cre-mediated recombination will result in deletion of the floxed sequences in the ABCG2-expressing cells of the offspring, as well as all progeny arising from these cells.

Genetics

Abcg2^{tm3.1(cre/ERT2)Bssor}

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Probe: Generic Cre Probe
SEPARATED MELT: Abcg2^{tm3.1(cre/ERT2)Bssor}-Alternate4
MELT: Generic Cre Melt Curve Analysis
Genotyping resources and troubleshooting

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

Additional Breeding and Husbandry Support

Citation

When using the Bl6.Cg-Abcg2^{tm3.1(cre/ERT2)Bssor} stock #021961 in your Materials and Methods section, please cite the originating article(s) and include JAX Facility Barrier Level Descriptions

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

**Cryo Recovery**

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

#### Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>Cryorecovery - Domestic Pricing</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wild-type for Abcg2&lt;tm3.1(cre/ERT2)Bsr&gt;</td>
<td>$2,595.00</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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