Overview

These transgenic mice express Cre recombinase under the control of the human beta hemoglobin (HBB) promoter and intron 2-enhancer fragment, and the human beta hemoglobin locus control region (LCR). When crossed with a strain containing a loxP site-flanked sequence, Cre-mediated recombination results in deletion of the targeted sequence in erythroid tissues. These Cre recombinase expressing mutant mice may be useful in generating tissue specific-targeted mutants useful in studies of erythropoiesis and hematopoiesis.
### Genetic Overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>Tg(HBB-cre)12Kpe</td>
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</tbody>
</table>

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

### Research Applications

**Hematological Research**
- Research Tools

### Base Price

- **Starting at:** $2,854.50 Domestic price
- **Cryo Recovery**

### Details

These transgenic mice express Cre recombinase under the control of the human beta hemoglobin (*HBB*) promoter and intron 2-enhancer fragment, and the human beta hemoglobin locus control region (LCR). Cre recombinase expression is detected in blood, brain, gonads, spleen and liver by RT-PCR analysis and in blood by RNAse protection assay analysis. During development Cre activity is restricted to erythroid tissues. The Donating Investigator reports that recombination occurs at 50-100% efficiency in erythroid/megakaryctic cell lineages beginning at onset of hematopoiesis at approximately embryonic day 7.5. When crossed with a strain containing a *loxP* site-flanked sequence, Cre-mediated recombination results in deletion of the flanked sequence in erythroid tissues. Mice hemizygous for the transgenic insert are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. This strain represents an effective tool for generating tissue specific-targeted mutants useful in studies of erythropoiesis and hematopoiesis.
Genotyping Protocols
- Standard PCR: Tg(HBB-cre)12Kpe

Breeding Considerations
When maintaining a live colony, these mice can be bred as hemizygotcs. The Donating Investigator has not attempted to make this strain homozygous.

Additional Breeding and Husbandry Support

Citation
When using the C57BL/6-Tg(HBB-cre)12Kpe/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #008314 in your Materials and Methods section.

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 or for more information.

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or non-carrier for Tg(HBB-cre)12Kpe</td>
<td>$2,854.50</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

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>C57BL/6-Tg(HBB-cre)12Kpe/J</td>
<td>$2595.00</td>
</tr>
</tbody>
</table>

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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The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain's phenotype will meet all expectations. To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project.

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Terms of Use

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Phone: 207-288-6470
Email: TechTran@jax.org

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