B6Ei.LT-Y (IsX Rap1b+ Y Ei

Stock No: 017764 | Y* brown

Congenic, Consomic, Spontaneous 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

Also Known As: Y* brown
Male mice of this strain carry an abnormal Y chromosome that can be used as a cytological marker and may be useful in studies of spermatogenesis.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>Tyrp1</td>
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</table>

**Tyrp1**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Tyrp1</td>
<td>tyrosinase-related protein 1</td>
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**Y(IsXPAR;Y)Ei**

<table>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Y(IsXPAR;Y)Ei</td>
<td>Chr Y, insertion of X PAR region to Y PAR region, Eva Eicher</td>
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</tbody>
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RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

Details

**Detailed Description**

This strain contains an abnormal LT/Sv-derived Y Chromosome comprising a spontaneous rearrangement (Eicher et al. 1991), formally designated Y(IsXPAR;Y)Ei and informally called Y*. Burgoyne et. al, (1998), updated the original description of the cytogenetic changes in this abnormal Y Chromosome, as an end-to-end fusion of two pseudoautosomal regions (PAR). Males with
this abnormal Y Chromosome (XY*) are fully fertile and can be used to transmit this chromosomal aberration. Duplication of the PAR in Y* males permits generation of X and Y reciprocal translocation products during meiosis (see figure 1 in Eicher et al. 1991). Sperm produced by XY* males contain either a normal X Chromosome, the intact, complete Y*, a large marker sex chromosome comprising an X Chromosome and most of the Y (Y*), or a tiny cytogenetic marker sex chromosome (Y'). Among offspring are the following genotypes and corresponding phenotypes:

XY*, which are fully fertile males

XX, normal females

XX*, which are sterile males in which gonad development is normal but spermatogenesis fails resulting in smaller testes after puberty. These males can be classified by manually palpating for testes size after 6 weeks of age. The testes are significantly smaller compared with any normal control male of the same age. Also these mice have a very large marker Chromosome (Fig 1, Eicher et al. 1991) easily seen after simple Giemsa staining (G-banding is not necessary. Alternatively these mice have nearly 2 complete X Chromosomes so these mice can be differentiated from normal XY<*> males by an Xist expression assay (Werler et al. 2011).

XY* females, which are fertile but litter size and number of litters produced will be less than expected for C57BL/6. These mice have a tiny cytogenetic marker (Fig 1, Eicher et al. 1991) easily seen after Giemsa staining of mitotic metaphase preparations.

Selected References

Genetics

Tyrp1<sup>B-It</sup>

Y(IsXPAR;Y)Ei

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Contact Technical Support

Genotyping Protocols
Genotyping resources and troubleshooting
When using the Y* brown mouse strain in a publication, please cite the originating article(s) and include JAX stock #017764 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.

<table>
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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Please Inquire</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.

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

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