B6(Cg)-Tyr c-2J Tg(UBC-mCherry)1Phbs/J

Stock No: 017614

Spontaneous Mutation, Transgenic

REPOSITORY LIVE

PLACE ORDER

3–6 week lead time for most orders depending on quantity and age range requested

These B6; albino;mCherry transgenic mice express monomeric red fluorescent protein (mCherry) under the direction of the human ubiquitin C promoter. Expression is observed in almost all tissues examined and may be useful as a bright and photostable means for visualizing morphogenesis and tissue rearrangements alone or in combination with mice expressing eGFP.

Donating Investigator

Poul H B Sorensen

READ MORE +

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</thead>
<tbody>
<tr>
<td>?+F8N3</td>
<td>(2017-11-22 00:00:00)</td>
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**Tyr c-2J**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Spontaneous</td>
<td>Tyr</td>
<td>tyrosinase</td>
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**Tg(UBC-mCherry)1Phbs**

<table>
<thead>
<tr>
<th>Allele Type</th>
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<tbody>
<tr>
<td>Transgenic (Reporter)</td>
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VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Dermatology Research
Sensorineural Research
Mouse/Human Gene Homologs

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description

These transgenic mice express monomeric red fluorescent protein (mCherry) under the direction of the human ubiquitin C promoter. Mice hemizygous for the transgene are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. These mice express mCherry in almost all tissues examined including pre- and post-implantation stage embryos, neonatal pups and adult mice. mCherry is strongly expressed in brain, testis, bladder, prostate and epididymis and at lower levels in other tissues. No expression is detected in erythrocytes or thrombocytes. These mice may be useful as a bright and photostable means for visualizing morphogenesis and tissue rearrangements alone or in combination with mice expressing eGFP.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tyr<sup>c<sup>2J</sup></sup>

Tg(UBC-mCherry)1Phbs

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References
Genotyping Protocols
End Point Analysis: Tyr\(^c-2J\) alternative 1
Standard PCR: Generic mCherry
High Resolution Melting: Tg(UBC-mCherry)1Phbs
Genotyping resources and troubleshooting

Breeding Considerations
While maintaining a live colony, these mice are bred as hemizygotes. The donating investigator indicates that homozygotes have not been assessed.

Additional Breeding and Husbandry Support

Mating System
Hemizygote x Noncarrier
Noncarrier x Hemizygote

Citation
When using the BK(Ca)-Tyr\(^c-2J\), Tg(UBC-mCherry)1Phbs/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #017614 in your Materials and Methods section.

Facility Barrier Level Descriptions

AX18 (Maximum)

Pricing & Availability
3–6 week lead time for most orders depending on quantity and age range requested

Domestic & International
Pricing effective for USA, Canada and Mexico shipping destinations

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Tyr(^c-2J), Homozygous for Tg(UBC-mCherry)1Phbs</td>
<td>$271.00</td>
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<tr>
<td></td>
<td>Male</td>
<td>Homozygous for Tyr(^c-2J), Homozygous for Tg(UBC-mCherry)1Phbs</td>
<td>$271.00</td>
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<td>Approx 4-8 weeks</td>
<td>Female</td>
<td>Homozygous for Tyr(^c-2J), Noncarrier</td>
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<td>Homozygous for Tyr(^c-2J), Noncarrier</td>
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<tr>
<td>Male</td>
<td>Homozygous for Tyr&lt;sup&gt;c-2J&lt;/sup&gt;, Hemizygous for Tg(UBC-mCherry)&lt;sup&gt;1&lt;/sup&gt;Phbs</td>
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</table>

**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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**Terms of Use**

**General Terms and Conditions**

**Licensing Information**

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

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**Related Strains**

- All
  - By Allele
  - By Gene
  - By Collection

All Related Strains