B10.Cg-H2^d Tg(Ins2-HA)165Bri/ShrmJ

Stock No: 005534 | B10.D2 HA

Congenic, Major Histocompatibility Congenic, Transgenic

CRYO RECOVERY

PLACE ORDER

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

Also Known As: B10.D2 HA

These mice carry a transgene on a C57BL/10 background that expresses the influenza hemagglutinin (HA) on pancreatic islet beta cells that results in reduced class I and class II T-cell responses in cytotoxic lymphocyte (CTL) assays and adoptive transfer studies.

Donating Investigator

Linda Sherman, The Scripps Research Institute

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<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tg(Ins2-HA)165Bri</td>
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Allele Type

Transgenic (Inserted expressed sequence)

H2^d

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<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tr>
<td>Spontaneous</td>
<td>H2</td>
<td>histocompatibility-2, MHC</td>
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VIEW GENETICS

Research Tools

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description
Transgenic mice are viable, fertile, normal in size, normoglycemic and do not display any gross physical or behavioral abnormalities. Mice homozygous for the transgene have silver grey fur color. Hemizygous and wildtype mice are black. Immunohistochemistry reveals pancreatic islet cell expression of the transgene and no expression in the spleen, kidney or thymus. Isolated islets stain normally for insulin and are morphologically indistinguishable from control islets. Additional functional studies found no expression in bone marrow. Histology revealed no insulitis and the single transgenic mice do not become diabetic. T-cell proliferation assays, Cytotoxic Lymphocyte (CTL) assays, and adoptive transfer studies performed using transgenic mice indicate significantly reduced class 1 and class II T-cell responses compared to controls. Hemagglutination inhibition assays of sera from HA primed transgenic mice indicate antibody titers slightly lower but nearly equivalent to HA primed control mice. Antibody titers of all transgenic mice tested were significantly higher than preimmune levels. When mated with Tg(TcraC(4),TcrbC(4) mice, the double transgenic neonates become spontaneously diabetic after birth and die within 10 days. This is a good model for studying peripheral tolerance.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Ins2-HA)165Bri

H2

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype
Genotyping Protocols
Standard PCR: Tg(Ins2-HA)165Bri
Genotyping resources and troubleshooting

Appearance
black
Related Genotype: A/? Tyr<sup>e</sup>/Tyr<sup>e</sup>

Citation
When using the B10 D2 HA mouse strain in a publication, please cite the originating article(s) and include JAX stock #005534 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>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous for Tg(Ins2-HA)165Bri</td>
<td>$2,595.00</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.

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

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<td>By Collection</td>
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All Related Strains
Leading the search for

TOMORROW'S CURES