**B6;129S4-Ighm<sup>tm1Che</sup>/J**

**Stock No:** 003751

[Gene Symbol: Ighm]

**Genetic Background:**

- **Allele Type:** Targeted (Null/Knockout)
- **Gene Name:** Immunoglobulin heavy constant mu

Price:

- **Starting at:** $2,595.00 Domestic price Cryo Recovery

**Donating Investigator**

Jianzhu Chen, MIT Center for Cancer Research
Details

Detailed Description

Mice homozygous for the $\text{Ighm}^{tm1Che}$ allele are viable, fertile and exhibit no apparent defects. While membrane expressed $\text{Ighm}^{tm1Che}$ is unhindered, these mice are unable to produce the secreted form of $\text{Ighm}^{tm1Che}$. Increases in some classes of serum Ig is noted in young animals (IgA, IgG2a and IgG3), but these differences are largely absent in the adult animals. The IgG1 antibody response to suboptimal doses of a T cell-dependent antigen is impaired. Conversely, the IgG2a antibody response to a T cell-independent antigen appears augmented. An approximately three-fold increase in B-1 lymphocytes is noted in the spleen and peritoneum.

Development

Control Suggestions

Selected References

Genetics

$Ighm^{tm1Che}$

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

High Resolution Melting: $\text{Ighm}^{tm1Che}$ Alternate1
Genotyping resources and troubleshooting

Breeding Considerations

Heterozygotes and homozygotes are viable and fertile. Homozygous mice are more susceptible to pathogenic bacteria, so conventional specific pathogen-free (SPF) conditions are recommended.

Additional Breeding and Husbandry Support
Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

**Pricing & Availability**

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

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for lghm&lt;tm1Che&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.

**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.

**The Jackson Laboratory’s Genotype Promise**

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.

**Terms Of Use**

Terms of Use
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“MICE” means mouse strains, their progeny derived by inbreeding or crossbreeding, unmodified derivatives from mouse strains or their progeny supplied by The Jackson Laboratory (“JACKSON”). “PRODUCT(S)” means biological materials supplied by JACKSON, and their derivatives. “SERVICES” means projects conducted by JACKSON for other parties that may include but are not limited to the use of MICE or PRODUCTS. “RECIPIENT” means each recipient of MICE, PRODUCTS, or SERVICES provided by JACKSON including each institution, its employees and other researchers under its control. MICE or PRODUCTS shall not be: (i) used for any purpose other than internal research, (ii) sold or otherwise provided to any third party for any use, or (iii) provided to any agent or other third party to provide breeding or other services. Acceptance of MICE, PRODUCTS or SERVICES from JACKSON shall be deemed as agreement by RECIPIENT to these conditions, and departure from these conditions requires JACKSON’s prior written authorization.

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Leading the search for

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Shipments have begun at our new facility, allowing increased access to JAX mouse models.