B6.Cg-Tg(H2-Ea-II7)10Rhdr/J

Stock No: 008334

Congenic, Transgenic

Cryogenic Recovery

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

These transgenic mice overexpress the mouse II7 (interleukin-7) gene under the control of the mouse H2-Ea (histocompatibility 2, class II antigen E alpha) promoter, and approximately 25% develop lymphoid tumors. This mutant mouse strain may be useful in studies of B cell lymphoma, lymphoproliferative disorder, B lymphopoiesis, B cell development, post-translational histone modifications and chromatin remodeling.

Donating Investigator
Rod Ceredig, National University of Ireland, Galway

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Genetic Overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tg(H2-Ea-II7)10Rhdr</td>
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</tbody>
</table>

Allele Type
Transgenic (Inserted expressed sequence)

VIEW GENETICS

Research Applications
Cancer Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

Base Price
Starting at:
Details

Detailed Description

These transgenic mice express the mouse IL7 (interleukin-7) gene under the control of the mouse H2-Ea (histocompatibility 2, class II antigen E alpha) promoter. The transgene is overexpressed in MHC class II positive including the medullary thymic epithelium and B lymphocytes.

25% of transgenic mice on a C57BL/6 background develop lymphoid tumors and tumor incidence increases with age.

Lymphoproliferative disorder is detected in mutant mice as young as 6 weeks of age (enlarged lymph nodes, remodeled bone, predominance of lymphoid cells in bone marrow cavity, increased number of circulating lymphoid cells). The majority of tumors occur in mice 4 to 6 months of age. The number of follicular B cells is significantly increased but the number of marginal zone B cells remains constant in transgenic mice. The total number of T cells is increased 10 to 20 fold. Homozygotes are viable, however, homozygous males have reduced lifespan due to lymphoma development. This mutant mouse strain may be useful in studies of T lymphocyte homeostasis, memory T cell development, B cell lymphoma, lymphoproliferative disorder, B lymphopoiesis, B cell development, post-translational histone modifications and chromatin remodeling.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(H2-Ea-II7)10Rhdr

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Standard PCR: Tg(H2-Ea-II7)1Rhdr STD PCR
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes. However, homozygous males have reduced lifespan due to lymphoma development.
Additional Breeding and Husbandry Support

Citation
When using the BACs Tg(H2-Ea-II7)1Rhdr/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #008334 in your Materials and Methods section.

Animal Health Reports
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>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous or Non Carrier for Tg(H2-Ea-II7)1Rhdr</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.

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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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