B6.Cg-Tg(BCL2)36Wehi/J

Stock No: 002321 | bcl-2-36

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: bcl-2-36

These bcl-2-36 mice express a transgene containing human B-cell lymphoma 2 (BCL2) cDNA that has both T cell and B cell lineages showing increased numbers of B lymphocytes, Ig-secreting cells and serum Ig. These mice can be used for the production of B-cells, antibodies T-cell lines or hybridomas.

Donating Investigator

Dr. Alan Harris, The Walter & Eliza Hall Inst of Med Res

READ MORE +

<table>
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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td>Tg(BCL2)36Wehi</td>
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Allele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

Apoptosis Research
Immunology, Inflammation and Autoimmunity Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS
Details

Detailed Description

Expression of the human BCL2 transgene in both T cell and B cell lineages. This transgenic line combines the characteristics of both Tg(BCL2)22Wehi and the Tg(BCL2)25Wehi lines. Hemizygotes show increased numbers of B lymphocytes, Ig-secreting cells and serum Ig, as well as a heightened and prolonged antibody response to immunization. T-cells withstand prolonged culture in the absence of growth factors and are resistant to killing by gamma-radiation, glucocorticoids, ionomycin, PMA and sodium azide but NOT complement, cytotoxic T cells, or Fas ligand. Hemizygotes have a normal total T-cell count and thymic involution rate but show an enhanced response to immunization. These mice serve as a robust source for the production of B-cells, antibodies T-cell lines or hybridomas. Although mice bearing this allele exhibit a mild increase in spontaneous lymphoma and plasmacytoma occurrence (~10% to 18 months) on a (C57BL/6 x SJL)F2 background, on the BALB/c and C57BL/6 backgrounds tumor incidence is insignificant. Hemizygotes on a mixed B6.SJL background (but not on the C57BL/6 background) develop an autoimmune disease characterized by immune complex glomerulonephritis, anti-nuclear antibodies, lymphadenopathy, and myocardial infarction.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(BCL2)36Wehi

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
MELT: Tg(BCL2)
Genotyping resources and troubleshooting

Breeding Considerations
This strain is maintained by mating hemizygous mice with C57BL/6J mice or wildtype siblings. Expected coat color from breeding: Black
Additional Breeding and Husbandry Support

Appearance
black
Related Genotype: a/a

Citation
When using the bcl-36 mouse strain in a publication, please cite the originating article(s) and include JAX stock #002321 in your Materials and Methods section.
Facility Barrier Level Descriptions
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.

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<tr>
<th>Domestic</th>
<th>International</th>
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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 or Non carrier for Tg(BCL2)36Wehi</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.

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