B6.129S1-Csf2rb<sup>im1Cpb</sup>/J

Stock No: 005940 | c KO

- Congenic, Targeted Mutation

- CRYO RECOVERY

REQUEST CRYORECOVERY

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

Overview

Also Known As: c KO

These Csf2rb knock-out mice exhibit a failure of bone marrow and splenocyte cells to proliferate in response to granulocyte-macrophage colony-stimulating factor (GM-CSF). They are useful for studies of hematopoiesis.

Donating Investigator
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>Csf2rb&lt;sup&gt;1m1Gb&lt;/sup&gt;</td>
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<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Csf2rb</td>
<td>colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)</td>
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RESEARCH APPLICATIONS

Cardiovascular Research
Immunology, Inflammation and Autoimmunity Research
Internal/Organ Research
Research Tools
Hematological Research

BASE PRICE
Starting at:

$2,595.00 Domestic price Cryo Recovery

Details

Detailed Description

Homozygous mice are viable and fertile with no behavioral abnormalities. In response to GM-CSF, bone marrow and splenocytes from homozygous mice fail to exhibit proliferation, enhanced survival in vitro, or synergistic interaction with M-CSF. They also fail to proliferate in response to IL-5. IL-3 binding and responses are unaffected. Cell composition in thymus, spleen, bone marrow, and lymph node is not significantly altered. Circulating eosinophils are dramatically reduced in blood with lesser reduction in bone marrow and tissues. Homozygous mice develop pulmonary peribronchovascular lymphoid infiltrates and areas resembling pulmonary alveolar proteinosis (PAP). Consistent with this, mutant mice have greatly increased surfactant protein-B and D accumulation in lung/airway tissue, no attenuation of saturated phosphatidylcholine with advancing age, and high levels of GM-CSF in bronchoaveolar lavage fluid. Homozygous mice are resistant to intradermal Leishmania major infection and peritoneal macrophages...
infected in vitro or in vivo are similarly resistant with a more activated phenotype and increased nitric oxide production than wildtype. Homozygous mice have reduced numbers of resident Langerhans cells in epidermis with significantly impaired recovery of this population following topical LPS treatment. This mutant is a model for PAP and may also be useful in studies of lung physiology and disease, surfactant homeostasis and metabolism, innate immunity, cytokine signaling, myoproliferative disease, hematopoietic cell populations requiring GM-CSF or IL-5 for development and function, and models of ischemic, traumatic, toxic, and inflammatory injuries.

Genetics

Csf2rb<sup>tm1Cgb</sup>

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Standard PCR: Csf2rb<sup>tm1Cgb</sup>

Genotyping resources and troubleshooting

Breeding Considerations

When maintaining a live colony, these mice are bred as homozygotes.

Additional Breeding and Husbandry Support

Citation

When using these XFG mouse strain in a publication, please cite the originating article(s) and include JAX stock #005940 in your Materials and Methods section.

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>Domestic</th>
<th>International</th>
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<tr>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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**Cryo Recovery - Domestic Pricing**

<table>
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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>Heterozygous or wildtype for Csf2rb&lt;tm1Cgb&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.

**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**

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Email: TechTran@jax.org

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