Overview

Cd80 (B7-1) null mice exhibit a diminished mixed lymphocyte response. Following immunization, antigen specific IgG1, IgG2a and IgM isotypes are 25%-50% that of wild type levels. Survival of certain tissue allografts are slightly prolonged in Cd80 null mice.

Donating Investigator

Arlene H Sharpe, Harvard Medical School
# GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cd80&lt;sup&gt;tm1Shr&lt;/sup&gt;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Cd80</td>
<td>CD80 antigen</td>
</tr>
</tbody>
</table>

VIEW GENETICS

# RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Internal/Organ Research

VIEW ALL RESEARCH APPLICATIONS

# BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery

VIEW PRICE LIST

## Details

### Detailed Description

Cd80 (B7-1) null mice are viable and fertile. They possess normal numbers of B and T lymphocytes but exhibit a diminished mixed lymphocyte response. Following immunization, antigen specific IgG1, IgG2a and IgM isotypes are 25%-50% that of wild type levels. Survival of certain tissue allografts are slightly prolonged in Cd80 null mice.

### Development

### Control Suggestions

### Selected References

### Genetics

Cd80<sup>tm1Shr</sup>
Genotyping Protocols
High Resolution Melting: Cd80<sup>tm1Snr</sup> alternate2
Genotyping resources and troubleshooting

Breeding Considerations
This strain originated on a B6/129S4 background. It was backcrossed to C57BL/6 for ten generations and has been maintained by intercrosses since N10. It is maintained as a homozygote. Coat color expected from breeding: Black
Additional Breeding and Husbandry Support

Citation
When using the B6.129S4-Cd80<sup>tm1Snr</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #003611 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

Cryo Recovery

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

| Cryorecovery - Domestic Pricing |
|-------------------------------|-------------------|-----------------|
| **SERVICE**                   | **GENOTYPE**      | **PRICE**       |
| Cryo Recovery                 | Heterozygous or Wildtype for Cd80<sup>tm1Snr</sup> | $2,595.00       |

Domestic | International
Pricing effective for USA, Canada and Mexico shipping destinations
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

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</td>
</tr>
</tbody>
</table>

### 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

General Terms and Conditions

QUESTIONS ABOUT TERMS OF USE

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#### Licensing Information

Phone: 207-288-6470

Email: TechTran@jax.org

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains
ELLSWORTH FACILITY OFFICIALLY OPEN AND OPERATIONAL
Shipments have begun at our new facility, allowing increased access to JAX mouse models.