Also Known As: Black 10, Black 10 J, B10, C57BL10

The C57BL/10J substrain is similar to the C57BL/6J substrain, but allelic variants have been described at the H9, Igh2 and Lv loci. C57BL/10J mice are a valuable immunological research tool. They have a high lymphocyte phytohaemagglutinin response, a good immune response to ovalbumin, a poor response to DNP-keyhole limpet haemocyanin and are resistant to induction of passive cutaneous anaphylaxis (IgG1- and IgE- mediated). They are susceptible to immunosuppression of contact hypersensitivity by ultraviolet light, highly susceptible to TNBS-induced colitis and moderately susceptible to experimental allergic encephalomyelitis.

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Contact Technical Support</td>
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<tr>
<td></td>
<td>(2018-07-27 00:00:00)</td>
</tr>
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VIEW GENETICS
C57BL/10J is a substrain of C57BL, and shares a common origin with C57BL/6J (Stock No. 000664), which is one of the most widely used inbred strains. Coat color is black (non-agouti), a/a. The C57BL/10J substrain is similar to the C57BL/6J substrain, but allelic variants have been described at the $H9$, $Igh2$ and $Lv$ loci. C57BL/10J mice have a long life-span (826 +/- 29 days in males, 693 +/- 31 days in females). Overall tumor incidence is 33% in males and 31% in females, most of which is due to lymphoma. C57BL/10J mice are prone to dermatitis, which is a common problem in the C57BL strain. C57BL/10J mice are a valuable immunological research tool. They have a high lymphocyte phytohaemagglutinin response, a good immune response to ovalbumin, a poor response to DNP-keyhole limpet haemocyanin and are resistant to induction of passive cutaneous anaphylaxis (IgG1- and IgE- mediated). They are susceptible to immunosuppression of contact hypersensitivity by ultraviolet light, highly susceptible to TNBS-induced colitis and moderately susceptible to experimental allergic encephalomyelitis.

### Development

### Selected References

### Genetics

- **$P2rx7^{P451L}$**
- **$Mx1^{s1}$**
- **$Micr^{n}$**
Genotyping Protocols
Sanger sequencing: Cdh23
Genotyping resources and troubleshooting
Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
This strain is a challenging breeder.

Additional Breeding and Husbandry Support
Mating System
Sibling x Sibling

Appearance
black

Related Genotype: a/a

Citation
When using the C57BL/10J mouse strain in a publication, please include JAX stock #000665 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

RB08 (Maximum)
AX28 (Maximum)
# Pricing & Availability

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

## Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>SEX</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>4 weeks</td>
<td>Female</td>
<td>$37.50</td>
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<tr>
<td></td>
<td>Male</td>
<td>$35.93</td>
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<tr>
<td>5 weeks</td>
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<td>$37.50</td>
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<td></td>
<td>Male</td>
<td>$37.32</td>
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<tr>
<td>6 weeks</td>
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<td>$41.77</td>
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<tr>
<td></td>
<td>Male</td>
<td>$41.59</td>
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<td>7 weeks</td>
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<td>$46.09</td>
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<td></td>
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<td>8 weeks</td>
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<td>$50.44</td>
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<td></td>
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<tr>
<td>9 weeks</td>
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<tr>
<td></td>
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<td>12 weeks</td>
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<td>$66.20</td>
</tr>
</tbody>
</table>

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one breeding pair to avoid delays in their research.

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Phone: 207-288-6470
Email: TechTran@jax.org

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All

By Allele

By Gene

By Collection

All Related Strains