B6.SPltrPep/BoyJ

Stock No: 002014 | B6 Cd45.1

Congenic

PLACED ORDER

Readily available in any quantity needed.

Overview
Also Known As: Pep Boy, B6 Cd45.1
This C57BL/6 congenic strain is used widely in transplant studies because it carries the differential \( Ptprc^a \) pan leukocyte marker commonly known as CD45.1 or Ly5.1. Wild-type C57BL/6 inbred mice express the \( Ptprc^b \) (CD45.2 or Ly5.2) allele.

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**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Technical Support</td>
<td></td>
</tr>
<tr>
<td>(2018-07-27 00:00:00)</td>
<td></td>
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</tbody>
</table>

**Pepc**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Pepc</td>
<td>peptidase C</td>
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</table>

**Ptprc**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Ptprc</td>
<td>protein tyrosine phosphatase, receptor type, C</td>
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</tbody>
</table>

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**RESEARCH APPLICATIONS**

Immunology, Inflammation and Autoimmunity Research

Research Tools

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**BASE PRICE**

Starting at:

\$56.64 Domestic price for female 3-week

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Details

This C57BL/6 congenic strain is used widely in transplant studies because it carries the differential pan leukocyte marker \( Ptprc^a \), commonly known as CD45.1 or Ly5.1. Wild-type C57BL and BALB/c inbred strains express the \( Ptprc^b \) (CD45.2 or Ly5.2) allele.
The current gene symbol designation Ptprc instead of Cd45 or Ly5 is based on work by Charbonneau and colleagues who showed in humans that a protein-tyrosine phosphatase (human placental protein-tyrosine phosphatase 1B) is homologous to the CD45 protein. Ptprc is one of a family of protein-tyrosine phosphatase genes involved in the regulation of cell growth. A spontaneous mutation in the Ncr1 gene is segregating in this strain (Jang et al. 2018 J Immunol 200:1982).
**Mating System**
Sibling x Sibling

**Appearance**
black

**Related Genotype:** a/a

**Citation**
When using the B6 Cd45.1 mouse strain in a publication, please cite the originating article(s) and include JAX stock #002014 in your Materials and Methods section.

**Facility Barrier Level Descriptions**
- AX4 (Standard)
- RB09 (Maximum)
- EM04 (Maximum)
- MP14 (Maximum)
- RB11 (Maximum)

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**Pricing & Availability**

Readily available in any quantity needed.

### Pricing effective for USA, Canada and Mexico shipping destinations

#### Live Mouse

<table>
<thead>
<tr>
<th>AGE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>3 weeks</td>
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<td>Homozygous for Ptprca Homozygous for Pepcb</td>
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<td></td>
<td>Male</td>
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<tr>
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<td></td>
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<tr>
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<tr>
<td></td>
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<tr>
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<tr>
<td></td>
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<tr>
<td>8 weeks</td>
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<tr>
<td></td>
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<tr>
<td>9 weeks</td>
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<tr>
<td>10 weeks</td>
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<tr>
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<td>Male</td>
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</tr>
<tr>
<td>11 weeks</td>
<td>Female</td>
<td>Homozygous for Ptprca Homozygous for Pepcb</td>
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</tbody>
</table>
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Terms of Use
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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains

CONTACT