SEA/GnJ

Stock No: 000644 | sea Green

Recombinant Inbred (RI), Spontaneous Mutation

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rmcf&lt;sup&gt;s&lt;/sup&gt;</strong></td>
<td></td>
</tr>
<tr>
<td>Allele Type</td>
<td>Gene Symbol</td>
</tr>
<tr>
<td>Spontaneous</td>
<td>Rmcf</td>
</tr>
</tbody>
</table>

SEA/Gn is a recombinant inbred strain derived from a BALB/c x P/J cross. This strain is segregating the short ear (se) allele.

**CRYO RECOVERY**

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Mx1</td>
<td>MX dynamin-like GTPase 1</td>
</tr>
</tbody>
</table>

### Ahr<sup>b<sup>2</sup></sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>Ahr</td>
<td>aryl-hydrocarbon receptor</td>
</tr>
</tbody>
</table>

### Bmp5<sup>se</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Bmp5</td>
<td>bone morphogenetic protein 5</td>
</tr>
</tbody>
</table>

### Cox7a2l<sup>d</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable (Not Specified)</td>
<td>Cox7a2l</td>
<td>cytochrome c oxidase subunit 7A2 like</td>
</tr>
</tbody>
</table>

### Myo5a<sup>d</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Myo5a</td>
<td>myosin VA</td>
</tr>
</tbody>
</table>

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**RESEARCH APPLICATIONS**

- Metabolism Research
- Dermatology Research
- Developmental Biology Research
- Research Tools
- Mouse/Human Gene Homologs

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**BASE PRICE**

**Starting at:**

$2,854.50 Domestic price Cryo Recovery

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**Details**

SEA/Gn is a recombinant inbred strain derived from a BALB/c x P/J cross.

SEA/Gn mice are segregating the short ear (se) allele, a single point mutation in the bone morphogenetic protein 5 (Bmp5) gene.
Mice homozygous for se have ears that are short and ruffled as a result of defects in the cartilage framework.

- Development
- Selected References
- Genetics
  - Rmcf<sup>s</sup>
  - Mx<sup>1s<sup>1</sup></sup>
  - Ah<sup>b-2</sup>
  - Bmp<sup>se</sup>
  - Cox7a2l<sup>s</sup>
  - Myo5a<sup>d</sup>
- Disease/Phenotype
  - Disease Terms
  - Research Areas By Phenotype
  - Mammalian Phenotype Terms by Genotype
  - Phenotype Information
  - References
- Technical Support
  - CHAT OFFLINE
  - CONTACT TECHNICAL SUPPORT

Genotyping Protocols
Genotyping resources and troubleshooting
Appearance
light brown agouti, short ears
Related Genotype: $A/A\ Tyrp1^b/Tyrp1^b\ Bmp5^{se}\ Myo5a^d/Bmp5^{se}\ Myo5a^d$

light brown agouti, normal ears
Related Genotype: $A/A\ Tyrp1^b/Tyrp1^b\ Bmp5^{se}\ Myo5a^d/+\ Myo5a^d$

Citation
When using the sea Green mouse strain in a publication, please cite the originating article(s) and include JAX stock #000644 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.

Cryorecovery - Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Inbred</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

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Terms Of Use

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

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### Related Strains

- **All**
- By Allele
- By Gene
- By Collection