Chromosome 13 from A/J has replaced the homologous chromosome of C57BL/6J in this strain of the set of consomic strains with C57BL/6J as background.

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>000664 C57BL/6J</td>
<td></td>
</tr>
</tbody>
</table>

**Cdh23<sup>ahl</sup>**

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous</td>
<td>Cdh23</td>
<td>cadherin 23 (otocadherin)</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

- Research Tools
- Neurobiology Research
- Sensorineural Research

**BASE PRICE**

Starting at: $2,854.50 Domestic price Cryo Recovery

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

**Important Note**
The C57BL/6J background strain is homozygous for the age related hearing loss mutation $Cdh23^{ahl}$, which on this background causes progressive hearing loss with onset after 10 months of age.

**Detailed Description**

A chromosome substitution or consomic strain is an inbred strain with one of its chromosomes replaced by the homologous chromosome of another inbred strain. The C57BL/6J and A/J strains in this set were chosen because they differ in their susceptibility to diseases such as arthritis, asthma, atherosclerosis, cancer, several infectious diseases, inflammatory responses, and physiological, behavioral and sensory phenotypes. Chromosome substitution strain nomenclature is designated as Host Strain - Chromosome #<Donor Strain>/Laboratory code. For example, C57BL/6J-Chr1<sup>A</sup>/NaJ carries chromosome 1 for strain A/J (A) on a C57BL/6J background, was constructed in the laboratory of Joseph Nadeau (Na) and is maintained at The Jackson Laboratory (J). Chromosome substitution strains or consomic strains can accelerate quantitative trait loci identification and mapping.

**Development**

**Control Suggestions**

**Selected References**

**Genetics**

**$Cdh23^{ahl}$**

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Phenotype**

**Mammalian Phenotype Terms by Genotype**

**Phenotype Information**
Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
black
Related Genotype: a/a

Citation
When using the CSS-13 mouse strain in a publication, please cite the originating article(s) and include JAX stock #004391 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

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>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Homozygous, 1 pair minimum</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains