C.129-Stat5b tm1Ped/J

Stock No: 007810

Congenic, Targeted Mutation

Overview

Homzygotes have less adipose tissue than wildtype controls, exhibit abnormal gene expression in liver, reduced insulin-like growth factor 1 (IGF-1) plasma levels, and disrupted urine chemistry. Female homozygotes have impaired lactation, male homozygotes are smaller than wildtype. Some homozygotes develop obesity at approximately 9 weeks of age with large testicular fat pads and increased abdominal fat. This mutant mouse strain may be useful in studies of mammary gland development, lactogenesis and immunological intracellular signal transduction.

Genetic overview

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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</thead>
<tbody>
<tr>
<td>Stat5b tm1Ped</td>
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<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Stat5b</td>
<td>signal transducer and activator of transcription 5B</td>
</tr>
</tbody>
</table>

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