These Wnt7b knock-out mice exhibit placental deformation leading to an embryonic lethal phenotype.

Donating Investigator

Andrew P McMahon, University of Southern California

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wnt7b&lt;sup&gt;tm1Parr&lt;/sup&gt;</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td>Wnt7b</td>
<td>wingless-type MMTV integration site family, member 7B</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

Research Tools
Developmental Biology Research

BASE PRICE
Starting at:
Mice that are heterozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Homozygous mice have an embryonic lethal phenotype, failing to develop past 11.5 days post coitum (d.p.c.). Placental formation is defective due to the failure of the chorion and the allantois to fuse. Morphological disorganization of the chorion is observed by 8.0-8.25 d.p.c. Integrin alpha 4 protein is not detectable in homozygous mutant chorionic cells by immunohistochemical analysis. This mutant mouse strain may be useful in studies related to the failure of chorion and allantois fusion during placental development.
Genotyping Protocols
Standard PCR: \textit{Wnt7b}

Genotyping resources and troubleshooting

Breeding Considerations

The resulting chimeric animals were crossed to C57BL/6J mice. The strain is maintained as a heterozygote. Homozygotes are not viable.

Additional Breeding and Husbandry Support

Citation

When using the B6;129-\textit{Wnt7b^{tm1Parr}}/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #004693 in your Materials and Methods section.

Animal Health Reports

\textbf{Facility Barrier Level Descriptions}

\textit{Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200}

\begin{table}
\begin{tabular}{|c|c|c|}
\hline
\textbf{SERVICE/PRODUCT} & \textbf{DESCRIPTION} & \textbf{PRICE} \\
\hline
\textit{Cryo Recovery} & \textit{Heterozygous or Wild-type for Wnt7b^{tm1Parr}} & $2,854.50 \\
\hline
\end{tabular}
\end{table}

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains