Overview

This CRISPR-generated knock-out mutant of the cell division cycle 5-like (S. pombe) (Cdc5l) gene has been generated by the Knockout Mouse Phenotyping Program (KOMP²) at The Jackson Laboratory. Cdc5l encodes a DNA-binding protein involved in cell cycle control that may also act as a transcription activator.
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td>005304 C57BL/6NJ</td>
<td>N1F1</td>
</tr>
</tbody>
</table>

*Cdc5l*  

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endonuclease-mediated (Null/Knockout)</td>
<td>Cdc5l</td>
<td>cell division cycle 5-like (S. pombe)</td>
</tr>
</tbody>
</table>

RESEARCH APPLICATIONS

**Details**

**Detailed Description**

This strain was generated by the Knockout Mouse Phenotyping Program (KOMP) at The Jackson Laboratory using CRISPR technology. The targeted gene, cell division cycle 5-like (S. pombe) (*Cdc5l*), encodes a DNA-binding protein involved in cell cycle control that may also act as a transcription activator. The alteration resulted in the deletion of deletion of 344 bp in exon 4 and 344 bp of flanking intronic sequence, including the splice acceptor and donor, and is predicted to cause an early truncation after amino acid 104. As mice are characterized, phenotype data will be accessible on the International Mouse Phenotyping Consortium website.

**Development**

**Control Suggestions**

**Genetics**

*Cdc5l*  

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Phenotype**
Genotyping Protocols
Probe: Cdc5l
Genotyping resources and troubleshooting

Breeding Considerations
Heterozygotes may be bred to C57BL/6NJ (Stock No. 005304) or wildtype littermates. As mice are characterized, data related to viability and fertility will be provided on the International Mouse Phenotyping Consortium website.

Additional Breeding and Husbandry Support
Mating System
Heterozygote x Heterozygote

Citation
When using the C57BL/6NJ-Cdc5l<sup>flmt1(IMPC)J</sup>/Mmjax mouse strain in a publication, please cite the originating article(s) and include MMRRRC stock #51166 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

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Related Strains

- All
- By Allele
- By Gene