B6.129P2 (Myd88<sup>−/−</sup>)<sup>Defr</sup> J

Stock No: 009088 | Myd88 null

Congenic, Targeted Mutation

AVAILABLE NOW

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.
Also Known As: Myd88 null

*Myd88* KO mice have hematopoietic system defects, as well as signaling and apoptotic defects. They have increased susceptibility to bacterial and viral infection due to immune system abnormalities.

**Donating Investigator**

Anthony L DeFranco, University of California San Francisco (UCSF)

IMR Colony, The Jackson Laboratory

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**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tr>
<td></td>
<td><strong>N10+N4F7</strong></td>
</tr>
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<td>(2019-07-12 00:00:00)</td>
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*Myd88*<sup>tm1.1Defr</sup>

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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<tbody>
<tr>
<td>Targeted (Null/Knockout)</td>
<td><em>Myd88</em></td>
<td>myeloid differentiation primary response gene 88</td>
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**RESEARCH APPLICATIONS**

- Developmental Biology Research
- Immunology, Inflammation and Autoimmunity Research
- Hematological Research
- Research Tools
Important Note
The Myd88-deficient allele encodes a deletion of exon 3 of the myeloid differentiation primary response gene 88 locus. Myd88-deficiency is associated with a number of immune system abnormalities, as well as hematopoietic system and apoptotic abnormalities.

Detailed Description
Homozygous mice are viable and fertile. The Myd88-deficient allele encodes a deletion of exon 3 of the myeloid differentiation primary response gene 88 gene. MYD88 is a cytosolic adapter protein that plays a central role in the innate and adaptive immune response. MyD88 signaling is required to limit bacterial burden and prolong survival during infection. Myd88-deficiency is associated with a number of immune system abnormalities, as well as hematopoietic system, molecular signaling, and apoptotic abnormalities. These mice have increased susceptibility to bacterial and viral infection and should be maintained in a specific pathogen free environment.
Genotyping Protocols
Standard PCR: Myd88^{tm1.1Defr}
Standard PCR: Myd88^{tm1.1Defr}

Genotyping resources and troubleshooting

Dietary Information
LabDiet® 5K52 formulation (6% fat)

Breeding Considerations
When maintaining a live colony, homozygous mice may be bred together. These mice have increased susceptibility to bacterial and viral infection and should be maintained in a specific pathogen free environment.

Additional Breeding and Husbandry Support

Mating System
Homozygote x Homozygote

Citation
When using the Myd88 null mouse strain in a publication, please cite the originating article(s) and include JAX stock #009088 in your Materials and Methods section.

Animal Health Reports

Facility Barrier Level Descriptions

Available Now

Live mice available in varying quantities. Ask Customer Service for details.

<table>
<thead>
<tr>
<th>AGE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<td>4 weeks</td>
<td>Female Homozygous for Myd88^{tm1.1Defr}</td>
<td>$230.00</td>
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<tr>
<td>4 weeks</td>
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### Related Products and Services

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<tr>
<th>Product Description</th>
<th>Strain</th>
<th>Price</th>
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<tr>
<td>Frozen Mouse Embryo</td>
<td>B6.129P2(SJL)-Myd88&lt;tm1.1Defr&gt;/J Frozen Embryo</td>
<td>$2595.00</td>
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Terms of Use

General Terms and Conditions

**Additional Use Restrictions Apply**

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

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