Also Known As: IL11 KO, Il11

Mice carry a CRISPR/Cas9-derived knock-out allele of the mouse Il11 (interleukin 11) gene that incorporates a deletion of exons 2-4.

Donating Investigator
Stuart A Cook, Duke–National University of Singapore Medical School
IL11 (interleukin 11) is a member of the IL6 family of cytokines, which share the gp130 coreceptor. IL11RA and IL6R are expressed on different cell types, IL11RA mostly on stromal and parenchymal cells whereas IL6R is expressed more on immune-type cells. IL11 itself is unregulated in many cell types in response to pro-fibrotic stimulation or injury.

These Il11− CRISPR/Cas9-derived mutant mice carry a knock-out allele of the mouse Il11 gene that incorporates a deletion of exons 2-4. Homozygotes are born at normal Mendelian ratios, appear healthy, and have normal blood hematological and chemistry profiles.

Homozygous IL11 knockout mice are protected from lung fibrosis and their fibroblasts are resistant to pro-fibrotic stimulation.
Genotyping Protocols
Standard PCR: \textit{Il11}-Alternate 2
Genotyping resources and troubleshooting

Breeding Considerations
Heterozygous and homozygous male mice are viable and fertile. Homozygous female mice are viable, but infertile.

Additional Breeding and Husbandry Support

Citation
When using the IL11 KO, \textit{Il11} \textsuperscript{-/-} mouse strain in a publication, please cite the originating article(s) and include JAX stock #034464 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

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

Pricing & Availability

\textbf{Cryo Recovery}

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

\textbf{Domestic}\underline{International}

Pricing effective for USA, Canada and Mexico shipping destinations
CRYORECOVERY - DOMESTIC PRICING

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<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for Il11&lt;em2Cook&gt;</td>
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PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. Therefore, we cannot guarantee a strain's phenotype will meet all expectations. To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee breeding performance and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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Email: TechTran@jax.org

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