Mice homozygous for this spontaneous mutation develop a severe, chronic, inflammatory skin disease beginning at 3-5 weeks of age. This mutant mouse strain may be useful in studies related to eosinophilic dermatitis, inflammation and secondary lymphoid organ development.

**GENETIC OVERVIEW**

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sharpin</strong>&lt;sup&gt;cpdm&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>Spontaneous</td>
<td>Sharpin</td>
<td>SHANK-associated RH domain interacting protein</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

Immunology, Inflammation and Autoimmunity Research  
Dermatology Research

**BASE PRICE**

Starting at:  
$2,854.50 Domestic price Cryo Recovery
Details

Detailed Description

Mice homozygous for this spontaneous mutation develop a severe, chronic, inflammatory skin disease beginning at 3-5 weeks of age. Mice appear runted and life span is shortened. In addition to dermatitis, homozygotes exhibit multi-organ inflammation with eosinophilia, defective TH1 cytokine production, splenomegaly, absent Peyer's patches (adult), diminished serum immunoglobulins, and an absence of B cell follicles, follicular dendritic cells, and germinal centers in secondary lymph organs. This mutant mouse strain may be useful in studies related to eosinophilic dermatitis, inflammation, and secondary lymphoid organ development.

Development

Control Suggestions

Selected References

Genetics

Sharpin<sup>cpdm</sup>

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Pyrosequencing: Sharpin
End Point Analysis: Sharpin-EP

Genotyping resources and troubleshooting

Appearance
black
Related Genotype: a/a

Citation
When using the C57BL/KaLawRij-Sharpin\textsuperscript{cpdm}/RijSunJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #007599 in your Materials and Methods section.

Animal Health Reports
Facility Barrier Level Descriptions

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

Pricing & Availability

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

<table>
<thead>
<tr>
<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Homozygous, heterozygous or wildtype for Sharpin&lt;cpdm&gt; 1 pair minimum</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>

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.

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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
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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**General Terms and Conditions**

**Licensing Information**

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

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains