C57BL/6NJ-Pla2g2a<sup>em1(IMPC)J</sup>/Mmjax
MMRRC Stock No: 51210-JAX
Coisogenic, Endonuclease-Mediated Mutation

been generated by the Knockout Mouse Phenotyping Program (KOMP<sup>2</sup>) at The Jackson Laboratory. Pla2g2a encodes a protein that may be involved in the regulation of the phospholipid metabolism.

**GENETIC OVERVIEW**

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

*Pla2g2a<sup>em1(IMPC)J</sup>*

<table>
<thead>
<tr>
<th>Allele Type</th>
<th>Gene Symbol</th>
<th>Gene Name</th>
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</thead>
<tbody>
<tr>
<td>Endonuclease-mediated</td>
<td>Pla2g2a</td>
<td>phospholipase A2, group IIA (platelets, synovial fluid)</td>
</tr>
</tbody>
</table>

**RESEARCH APPLICATIONS**

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Details
Detailed Description

This strain was generated by the Knockout Mouse Phenotyping Program (KOMP®) at The Jackson Laboratory using CRISPR technology. The targeted gene, phospholipase A2, group IIA (platelets, synovial fluid) (Pla2g2a), encodes a protein that may be involved in the regulation of the phospholipid metabolism. The alteration resulted in the deletion of deletion of 471 bp in exon 6 and 37 bp of flanking intronic sequence, including the splice acceptor and donor, and is predicted to cause a change of amino acid sequence after residue 98 and truncation 68 amino acids later by read through after exon 5. As mice are characterized, phenotype data will be accessible on the International Mouse Phenotyping Consortium website.

Development

Control Suggestions

Genetics

Pla2g2a<sup>em1(IMPC)J</sup>

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Probe: Pla2g2a Alternate2

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
Homozygote x Homozygote

Citation
When using the C57BL/6NJ-Pla2g2a<sup>em1(IMPC)J</sup>/Mmjax mouse strain in a publication, please cite the originating article(s) and include MMRRC stock #51210 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

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.

Terms Of Use

TERMS OF USE

General Terms and Conditions

See MMRRC for Additional Conditions of Distribution

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ADDITIONAL USE RESTRICTIONS APPLY

The use of this mouse model is subject to the terms and conditions of the Limited License from The Broad Institute.
The use of this mouse model is subject to the terms and conditions of the Limited Use Label License from Caribou Biosciences, Inc.

 LICENSING INFORMATION

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