Overview

These mice possess *loxP* sites flanking exon 2 of the disabled 2, mitogen-responsive phosphoprotein (*Dab2*) gene and have applications in studies related to the endocytosis, TGF-beta receptor signaling pathway and T reg cell function.

Donating Investigator

Jonathan A. Cooper, Fred Hutchinson Cancer Research Center
The *Dab2* (disabled 2, mitogen-responsive phosphoprotein) gene encodes for a protein that is a putative tumor suppressor and that has roles in clathrin-mediated endocytosis, TGF-beta receptor signaling, Treg cell function, cellular differentiation and embryonic development.

These mice possess *loxP* sites on either side of exon 2 of the targeted gene. Mice that are homozygous for this allele are viable and fertile. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exon 2 deleted in the cre-expressing tissues.

When bred to a strain with Cre recombinase expression in CD4+ T cells, this mutant mouse strain may be useful in studies of Treg cell regulation and the FOXP3 signaling pathway.

When crossed to B6.129S4-*Meox2*<sup>tm1(cre)Scx</sup>/J (see Stock No. 003375) Cre recombinase expression in epiblast-derived tissues results in offspring that exhibit reduced clathrin-coated pits in kidney proximal tubule cells and excrete specific plasma proteins in the urine.

### Development

The *Dab2* gene encodes for a protein that is a putative tumor suppressor and that has roles in clathrin-mediated endocytosis, TGF-beta receptor signaling, Treg cell function, cellular differentiation and embryonic development.

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Breeding Considerations
When maintaining a live colony, these mice can be bred as homozygotes.

Additional Breeding and Husbandry Support

Citation
When using the B6;129S4-Dab2<sup>tm1Cpr</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #022837 in your Materials and Methods section.

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.
We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous for Dab2&lt;tm1Cpr&gt;</td>
<td>$2,854.50</td>
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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 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.

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Terms of Use

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

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- All
- By Allele
- By Gene
- By Collection