These Zic2<sup>A986T</sup> mice possess an ENU-induced A to T transversion at nucleotide 986 of the zinc finger protein of the cerebellum 2 (Zic2) gene. These mutant mice may be useful in studying embryonic development.

**Donating Investigator**

Lee Niswander, University of Colorado, Denver
GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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<tbody>
<tr>
<td>Zic2&lt;sup&gt;m1Nisw&lt;/sup&gt;</td>
<td></td>
</tr>
</tbody>
</table>

Allele Type | Gene Symbol | Gene Name
--- | --- | ---
Chemically induced (ENU) (Hypomorph) | Zic2 | zinc finger protein of the cerebellum 2

RESEARCH APPLICATIONS
Developmental Biology Research

BASE PRICE
Starting at:
$2,854.50 Domestic price Cryo Recovery

Mice heterozygous for the ENU-induced mutation, Zic2<sup>A986T</sup>, are viable and fertile, although homozygotes die before birth. These mice possess an A to T transversion at nucleotide 986 of the zinc finger protein of the cerebellum 2 (Zic2) gene. These mice exhibit spina bifida and 20% exhibit exencephaly (hind-mid-forebrain). These mutant mice may be useful in studying embryonic development.

Details

Detailed Description
Mice heterozygous for the ENU-induced mutation, Zic2<sup>A986T</sup>, are viable and fertile, although homozygotes die before birth. These mice possess an A to T transversion at nucleotide 986 of the zinc finger protein of the cerebellum 2 (Zic2) gene. These mice exhibit spina bifida and 20% exhibit exencephaly (hind-mid-forebrain). These mutant mice may be useful in studying embryonic development.

Development

Control Suggestions

Selected References

Genetics
Genotyping Protocols
Pyrosequencing: Zic2<sup>m1Nisw</sup>
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, heterozygous mice may be bred to wildtype from the colony or to 129S1/SvImJ mice (Stock No. 002448). Heterozygous mice die before birth.
Additional Breeding and Husbandry Support

Citation
When using the 129S1.B6-Zic2<sup>m1Nisw</sup>/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #016158 in your Materials and Methods section.

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.

### Cryorecovery - Domestic Pricing

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Heterozygous or wildtype for B6-Zic2&lt;sup&gt;m1Nisw&lt;/sup&gt;</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Related Products and Services</th>
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<tbody>
<tr>
<td>Frozen Mouse Embryo 129S1.B6-Zic2&lt;m1Nisw&gt;/J</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 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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