The Myh6 promoter drives expression of a constitutively active Calcineurin A (Ppp3ca) cDNA in cardiomyocytes of this transgenic strain. These mice may be useful as models of human heart disease.

Donating Investigator

Eric N Olson, University of Texas Southwestern Medical
Jeffery D. Molkentin, Cincinnati Children's Hospital

GENETIC OVERVIEW

Tg(Myh6-Ppp3ca)37Eno

Allele Type
Transgenic (Constitutively active, Inserted expressed sequence)

RESEARCH APPLICATIONS

Cardiovascular Research

BASE PRICE
Calcineurin A ($Ppp3ca$) expression is driven by the cardiomyocyte-specific alpha myosin heavy chain (alpha MHC) promoter in this transgenic strain. Mice develop cardiac hypertrophy that progresses to dilated cardiomyopathy with interstitial fibrosis, congestive heart failure and sudden death between 6 and 12 months of age. This strain may be useful as a model of human heart disease.
### Genotyping Protocols

- Standard PCR: Tg(Myh6-Ppp3ca)37Eno STD PCR
- Standard PCR: Tg(Myh6-Ppp3ca)37Eno STD PCR

### Breeding Considerations

When maintained as a live colony, hemizygotes may be bred.

### Additional Breeding and Husbandry Support

### Citation

When using the STOCK Tg(Myh6-Ppp3ca)37Eno/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #009075 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

**Cryo Recovery**

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>Hemizygous or Non carrier for Tg(Myh6-Ppp3ca)37Eno</td>
<td>$2,854.50</td>
</tr>
</tbody>
</table>
RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo
STOCK Tg(Myh6-Ppp3ca)37Eno/J
$2595.00

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.

Terms Of Use

TERMS OF USE
General Terms and Conditions

ADDITIONAL USE RESTRICTIONS APPLY
Use of MICE by companies or for-profit entities requires a license prior to shipping.

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

Related Strains

All