These mice carry a transgene containing the Enhanced Green Fluorescent Protein driven by chicken beta-actin promoter and CMV intermediate early enhancer, which is integrated on the X chromosome. This strain may be a source of fluorescently marked cells/tissues.

Donating Investigator
Dr. Barbara Knowles, Institute of Medical Biology

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

GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tg(CAG-EGFP)D4Nagy</strong></td>
<td></td>
</tr>
</tbody>
</table>

Allele Type
Transgenic (Reporter)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE
Starting at:

$2,595.00 Domestic price Cryo Recovery
Details

Detailed Description

This transgenic strain carries the Enhanced Green Fluorescent Protein (Clontech) driven by chicken beta-actin promoter and CMV intermediate early enhancer. The transgene was found to have integrated on the X chromosome. Mice of this strain, and cells derived from them, can be distinguished from wildtype on the basis of fluorescence. Transgene expression is seen as early as embryonic day 2.75, as morula stage embryos begin to compact. Expression of EGFP is spatiotemporally widespread, though levels differ between different lineages (e.g., expression is slightly higher in the heart). As the transgene is located on the X chromosome, transgenic males will exclusively transmit the EGFP transgene to their female offspring, providing the basis for a non-invasive sexing assay based on green fluorescence. The Donating Investigator reports that female homozygotes are not viable on this C57BL/6J congenic background. Hemizygous females on the congenic C57BL/6J background are viable and fertile. These mice may be useful for sex discrimination prior to overt sexual dimorphism (embryonic day 12.5), monitoring X-inactivation, and may be a source of fluorescently marked cells/tissues.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for the strain above. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(CAG-EGFP)D4Nagy

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support
Genotyping Protocols
Probe: Fluorescent Proteins (Generic GFP)
Genotyping resources and troubleshooting

Breeding Considerations
The strain is maintained by mating hemizygous females with wildtype males. This transgene is X-linked; therefore, this mating scheme generates hemizygous males (Tg/Y) and hemizygous females (Tg/+) along with wildtype controls (+/+ females and +/Y males). The Donating Investigator reports that female homozygotes are not viable on this genetic background.
Additional Breeding and Husbandry Support

Citation
When using the B6.129(Cn)-Tg(CAG-EGFP)D4Nagy/KnwJ mouse strain in a publication, please cite the originating article(s) and include JAX stock #018979 in your Materials and Methods section.

Animal Health Reports
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.

Cryo Recovery

<table>
<thead>
<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cryo Recovery</td>
<td>X linked Hemizygous females and non carrier Males for Tg(CAG-EGFP)D4Nagy</td>
<td>$2,595.00</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.
Cryo recovery 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.

Related Products and Services

<table>
<thead>
<tr>
<th>Product</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frozen Mouse Embryo</td>
<td>$2,595.00 per straw or vial</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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