These p25 Tg mice express a transgene containing the CDK5R1/GFP fusion protein under the regulation of tetO.

Donating Investigator
Li-Huei Tsai, Massachusetts Institute of Technology

Genetic Background

Tg(tetO-CDK5R1/GFP)337Lht

Allele Type
Transgenic (Reporter, Inducible, Inserted expressed sequence, Humanized sequence)

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
Hemizygous transgenic mice are viable, fertile, normal in size and do not display any behavioral abnormalities. Mice homozygous for this transgene may not be viable. When these transgenic mice are bred with mice expressing the tetracycline-controlled transactivator protein (tTA) under the regulation of a tissue-specific promoter, expression of the CDK5R1/GFP fusion protein in the appropriate tissue of the bitransgenic offspring can be regulated by doxycycline administration. These mice may be useful in studies of Alzheimer's disease and other neurodegenerative tauopathies, amyotrophic lateral sclerosis (ALS), Niemann Pick Type C (NPC) disease, and Parkinson's disease.

Note: this transgenic strain was designed to breed with Tg(Camk2a-tTA) transgenic mice, (Stock No. 003010), a transgenic strain that expresses tTA in forebrain neurons. The resulting bitransgenic offspring exhibit the hallmark phenotype of Alzheimer's disease; elevated p25/Cdk5 related hyperphosphorylation of tau leading to compromised tau function and progressive tau aggregation.
Genotyping Protocols

Probe: Fluorescent Proteins (Generic GFP)
Standard PCR: Fluorescent Proteins (Generic GFP)
Genotyping resources and troubleshooting

Breeding Considerations

When maintaining a live colony, transgenic positive siblings are bred. Alternatively, transgenic mice can be bred with C57BL/6J (Stock No. 000664). Transgenic homozygosity may be lethal.

Additional Breeding and Husbandry Support

Citation

When using the p25 Tg mouse strain in a publication, please cite the originating article(s) and include JAX stock #005706 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.
RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo
C57BL/6-Tg(tetO-CDK5R1/GFP)337Lht/J Frozen Embryos
$2,854.50

ADDITIONAL USE RESTRICTIONS APPLY

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

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<th>SERVICE/PRODUCT</th>
<th>DESCRIPTION</th>
<th>PRICE</th>
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<td>Cryo Recovery</td>
<td>Hemizygous or Non carrier for Tg(tetO-CDK5R1/GFP)337Lht</td>
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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. 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

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USE OF MICE BY COMPANIES OR FOR-PROFIT ENTITIES REQUIRES A LICENSE PRIOR TO SHIPPING.

LICENSING INFORMATION

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Email: TechTran@jax.org
<table>
<thead>
<tr>
<th>Related Strains</th>
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<tr>
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