B6.Cg-Tg(MMTVtTA)1Mam/J

Stock No: 002618 | MMTV-tTA

Congenic, Transgenic

REQUEST CRYORECOVERY

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

Also Known As: MMTV-tTA

These MMTV-tTA mice contain the tetracycline-controlled transactivator protein (tTA) and can be used to target expression of tTA to the epithelial cells of secretory organs and skin in transgenic mice.

Donating Investigator

Dr. Lothar Hennighausen, National Institutes of Health

GENETIC OVERVIEW

<table>
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<tr>
<th>Genetic Background</th>
<th>Generation</th>
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Tg(MMTVtTA)1Mam

Allele Type

Transgenic (Transactivator)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery
**Details**

**Detailed Description**

The MMTV-LTR was used to target expression of tetracycline-controlled transactivator protein (tTA) to the epithelial cells of secretory organs and skin in transgenic mice. When Tg(MMTVtTA)1Mam transgenic mice were mated to a second transgenic strain carrying either lacZ or luciferase reporter genes coupled to tetracycline-responsive promoter elements (TRE; tetO), nearly uniform expression of the reporter was found in seminal vesicle, salivary gland, and Leydig cells of the double transgenic offspring. More heterogeneous reporter gene expression patterns were observed in mammary epithelial cells and basal cells of the epidermis. Lower reporter gene expression levels also were observed in a broad range of tissues. Transcriptional activation mediated by tTA was up to several hundred-fold and was abrogated after the administration of tetracycline. MMTV-tTA transgenic mice may be useful in experiments examining the roles of biological factors at defined developmental stages in the epithelial cells of salivary gland, seminal vesicle, mammary gland, and skin and in the Leydig cells of testes.

**Development**

**Expression Data**

**Control Suggestions**

**Selected References**

**Genetics**

**Tg(MMTVtTA)1Mam**

**Disease/Phenotype**

**Disease Terms**

**Research Areas By Genotype**

**Mammalian Phenotype Terms by Genotype**

**References**

**Technical Support**
Genotyping Protocols
QPCR: Tg(tTA)
Probe: Generic tTA/rTAN
Standard PCR: Tg(tTA)
MELT: Tg(tTA)
MELT: Tg(MMTV+TA)1Mam- Alt 1
Genotyping resources and troubleshooting

Breeding Considerations
When maintaining a live colony, hemizygous mice may be bred together, to wildtype (non-carrier) mice from the colony or to C57BL/6J inbred mice (Stock No. 000664). The expected coat color from breeding is black.
Additional Breeding and Husbandry Support

Appearance
black
Related Genotype: a/a

Citation
When using the MMTV-IA mouse strain in a publication, please cite the originating article(s) and include JAX stock #002618 in your 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.

<table>
<thead>
<tr>
<th>Domestic</th>
<th>International</th>
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<tbody>
<tr>
<td><strong>Cryo Recovery</strong></td>
<td><strong>Price</strong></td>
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<tr>
<td><strong>SERVICE</strong></td>
<td><strong>GENOTYPE</strong></td>
</tr>
<tr>
<td>Cryo Recovery</td>
<td>Carrier or non-carrier for Tg(MMTV+TA)1Mam</td>
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</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.

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Email: TechTran@jax.org

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Related Strains

- All
- By Allele
- By Gene
- By Collection

All Related Strains
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TOMORROW'S CURES