Overview

These transgenic mice express the rTA protein under the control of the human SFTPc promoter. This strain provides an improved Tet-On tool that allows the inducible expression of genes in the developing and adult lung and respiratory epithelium.

Donating Investigator
Dr. Jeffrey Whitsett, Children’s Hospital Medical Center
# GENETIC OVERVIEW

<table>
<thead>
<tr>
<th>Genetic Background</th>
<th>Generation</th>
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**Tg(SFTPC-rtTA)2Jaw**

**Allele Type**
Transgenic (Transactivator)

[VIEW GENETICS]

# RESEARCH APPLICATIONS

- Research Tools
- Immunology, Inflammation and Autoimmunity Research
- Developmental Biology Research
- Internal/Organ Research
- Mouse/Human Gene Homologs

[VIEW ALL RESEARCH APPLICATIONS]

# BASE PRICE

Starting at:

$2,595.00 Domestic price Cryo Recovery

[VIEW PRICE LIST]

# Details

**Detailed Description**

These transgenic mice express the reverse tetracycline-controlled transactivator (rtTA) protein under the control of the human SFTPC, surfactant, pulmonary-associated protein C, promoter.

In situ hybridization detects rtTA mRNA in lung peripheral epithelial cells from adult mice and 15 postconception day-aged embryos from doxycycline treated dams. Induction of transgene expression is detected as early as postconception day 12.5 when the pregnant female is treated with doxycycline. When mated to a second transgenic strain carrying a gene under the regulatory control of a tetracycline-responsive promoter element (tetO), expression of the gene may be regulated with the tetracycline analog, doxycycline (dox); in the presence of dox, transcription of the target gene is induced in cells where rtTA is expressed. Mice that are homozygous for this transgene are viable, fertile, normal in size, and do not display any gross physical or behavioral abnormalities.
This strain provides a Tet-On tool that allows the inducible expression of genes in the developing and adult lung and respiratory epithelium.

This founder line has less non-doxycline-dependent expression than Founder Line 5 (Stock No. 006225, Stock No. 006235, and Stock No. 006245).

### Development

### Expression Data

### Control Suggestions

### Selected References

### Genetics

- **Tg(SFTPC-rtTA)2Jaw**

### Disease/Phenotype

### Disease Terms

### Research Areas By Genotype

### Mammalian Phenotype Terms by Genotype

### References

### Technical Support

CONTACT TECHNICAL SUPPORT

**Genotyping Protocols**

QPCR: **Tg(tTA)**
Standard PCR: **Tg(tTA)**
Genotyping resources and troubleshooting

**Breeding Considerations**

When maintaining a live colony, the donating investigator confirms that homozygous mice may be bred together.

Additional Breeding and Husbandry Support

**Citation**

When using the STOCK Tg(SFTPC-rtTA)2Jaw/J mouse strain in a publication, please cite the originating article(s) and include JAX stock #016146 in your Materials and Methods section.
## 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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<tr>
<td>Pricing effective for USA, Canada and Mexico shipping destinations</td>
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### Cryorecovery - Domestic Pricing

<table>
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<tr>
<th>SERVICE</th>
<th>GENOTYPE</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>Cryo Recovery</td>
<td>Hemizygous for Tg(SFTPC-rtTA)2Jaw</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. 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.

### Related Products and Services

| Frozen Mouse Embryo | $2,595.00 per straw or vial |

## Payment Terms and Conditions

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Related Strains

All

By Allele

By Gene

By Collection

All Related Strains