

**B6;SJL-Tg(KRT14-rtTA)208Jek/J**

Stock No: **007678**

 **Transgenic**

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

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Donating Investigator

Jeffrey Kudlow, University of Alabama at Birmingham

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## GENETIC OVERVIEW

Genetic Background

Generation

**Tg(KRT14-rtTA)208Jek**

**Alele Type**

Transgenic (Transactivator)

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Dermatology Research

VIEW ALL RESEARCH APPLICATIONS

**BASE PRICE**

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W P R I C E L I S T

## Details

### Detailed Description

Homozygous females and hemizygous males carrying this X-linked K14-rtTA transgene (K14-rtTetA(X) or rtTA<sub>X</sub>) are viable and fertile. These mice express the reverse tetracycline-controlled transactivator (rtTA) protein under the control of the human keratin 14 promoter. As the transgene is located on the X chromosome, random inactivation of the X chromosome may result in mosaic rtTA expression patterns in female mice. When mated to a second transgenic strain carrying a gene of interest under the regulatory control of a tetracycline-responsive promoter element (TRE or tetO), expression of the target gene in the basal cells of the squamous epithelia and in the outer root sheath of the hair follicles is induced with administration of the tetracycline analog, doxycycline (dox). These K14-rtTA mice provide a Tet-On tool that allows the inducible expression of genes in skin cells.

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### Tg(KRT14-rtTA)208Jek

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

[+ Mammalian Phenotype Terms by Genotype](#)

[+ References](#)

## [- Technical Support](#)

C O N T A C T   T E C H N I C A L   S U P P O R T

### Genotyping Protocols

Probe: [Generic tTA/rtTA](#)

QPCR: [Tg\(tTA\)](#)

Standard PCR: [Tg\(tTA\)](#)

Standard PCR: [Tg\(tTA\)](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

This transgene is located on the X chromosome. When maintaining a live colony, homozygous females can be bred to hemizygous males.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the B6;SJL-Tg(KRT14-rtTA)208Jek/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007678 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.

**Domestic** **International**

Pricing effective for USA, Canada and Mexico shipping destinations

**CRYORECOVERY - DOMESTIC PRICING**

| SERVICE/PRODUCT               | DESCRIPTION  | PRICE      |
|-------------------------------|--|------------|
| <a href="#">Cryo Recovery</a> | X linked -Carrier females and non-carrier Males for Tg(KRT14-rtTA)208Jek | \$2,854.50 |

| RELATED PRODUCTS AND SERVICES       |   |           |
|-------------------------------------|---|-----------|
| <a href="#">Frozen Mouse Embryo</a> | B6;SJL-Tg(KRT14-rtTA)208Jek/J Frozen Embryo | \$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](#)

Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

### 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](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection



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