

## FVB.Cg-Tg(KRT14-Fyn\*)aJsey/J

Stock No: 017005

 Congenic, 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

John Seykora, University of Pennsylvania

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(KRT14-Fyn\*)aJsey

#### Allele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

## RESEARCH APPLICATIONS

Cancer Research

Research Tools

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

These transgenic mice express the Y528F mutant of *Fyn* under the control of the human *KRT14*, keratin 14, promoter. The tyrosine 528 to phenylalanine (Y528F) mutation results in a dominant oncoprotein isoform of FYN. Mice homozygous for the transgenic insert are fertile and normal in size. Approximately 10% of homozygous mice die before weaning. Within 1 week of birth, homozygotes develop thickened epidermis and hyperkeratotic plaques. By 5 to 8 weeks of age, approximately one third of homozygotes develop spontaneous squamous cell carcinomas. At 4 to 5 weeks of age, homozygotes also develop punctate (1 to 3 mm) hyperkeratotic lesions similar to human actinic keratoses, with hyperplasia, parakeratosis, and atypical keratinocytes.

Histological analysis of the spontaneous skin tumors that develop in homozygotes reveal enlarged keratinocytes with nuclear atypia, increased mitotic activity, evidence of dermal invasion, and focal keratinization. No metastasis is seen in homozygous mice observed up to 6 months.

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### Tg(KRT14-Fyn\*)aJsey

## Disease/Phenotype

### Disease Terms

[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## [- 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

Separated PCR: [Tg\(KRT14-Fyn\\*\)aJsey](#)  
[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes, however approximately 10% of homozygous mice die before weaning.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the FVB.Cg-Tg(KRT14-Fyn\*)aJsey/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #017005 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>	Hemizygous or non carrier for Tg(KRT14-Fyn*)aJsey	\$2,854.50

RELATED PRODUCTS AND SERVICES		
<a href="#">Frozen Mouse Embryo</a>	FVB.Cg-Tg(KRT14-Fyn*)aJsey/J	\$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](#)

QUESTIONS ABOUT TERMS OF USE

### 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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