

## FVB/N-Tg(*tetO-MYC*)36aBop/J

Stock No: **019376** | *tet-o-MYC* line 36

 Coisogenic, Transgenic

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

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*MYC*, regulated by a tetracycline operator (*tetO*). When mated to a mutant strain expressing tetracycline-controlled transactivator protein (tTA), expression of *MYC* protein may be regulated with tetracycline or its analog doxycycline (dox) in the double mutant offspring. These mice may be useful for studying tumor development and regression.

### Donating Investigator

J Michael Bishop, UCSF School of Medicine

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(*tetO-MYC*)36aBop

#### Alele Type

Transgenic (Inducible, Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Cancer 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

Expression of *MYC* in these transgenic mice is regulated by a tetracycline operator (*tetO*). *MYC* is a transcription factor involved in cellular proliferation and differentiation, and is often upregulated in tumors, leukemias and lymphomas. Hemizygous mice are viable and fertile, homozygotes do not survive. When mated to a mutant strain expressing tetracycline-controlled transactivator protein (tTA), expression of *MYC* protein may be regulated with tetracycline or its analog doxycycline (dox) in the double mutant offspring.

When bred to B6.Cg-Tg(Cebpb-tTA)5Bjd/J mice (as Stock No. [003563](#)) expressing tTA in liver, withdrawal of dox from double transgenic mice develop invasive metastatic liver tumors, and all mice die within 2 weeks onset. When doxycycline treatment is re-administered, rapid and sustained tumor regression is evident.

When bred to B6.Cg-Tg(Pax8-rtTA2S\*M2)1Koes/J (see Stock No. [007176](#)) expressing rtTA in renal tubular epithelial cells, induction of doxycycline causes polycystic kidneys, kidney failure and renal adenomas.

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### Tg(tetO-MYC)36aBop

## ⊖ Disease/Phenotype

[+ Disease Terms](#)

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[+ 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\(tetO-MYC\)36aBop](#)

Standard PCR: [Tg\(tetO-MYC\)36aBop](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, hemizygous mice may be bred to wildtype (non-carrier) mice from the colony or to FVB/NJ inbred mice (as Stock No. [001800](#)). Homozygous mice do not survive.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the tet-o-MYC line 36 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #019376 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



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
Cryo Recovery	Hemizygous or Non carrier forTg(tetO-MYC)36aBop	\$2,854.50

### RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	FVB/N-Tg(tetO-MYC)36aBop/J	\$2595.00
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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.

## 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

## ☰ Related Strains

- All
- By Allele
- By Gene
- By Collection




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