

**STOCK Tg(tetO-ABL1\*P242E\*P249E)CPdav/J**Stock No: **014544** **Transgenic**

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

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constitutively active (AbIPP). Expression may be controlled via the Tet-Off/Tet-On system for use in studies related to tau phosphorylation.

**Donating Investigator**

Peter Davies, Albert Einstein College of Medicine

[READ MORE +](#)**GENETIC OVERVIEW****Genetic Background****Generation****Tg(tetO-ABL1\*P242E\*P249E)CPdav****Alele Type**

Transgenic (Inducible, Constitutively active, Inserted expressed sequence, Humanized sequence)

[VIEW GENETICS](#)**RESEARCH APPLICATIONS**

Research Tools

Neurobiology Research

Cell Biology Research

Immunology, Inflammation and Autoimmunity 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

Hemizygous AbIPP transgenic mice are viable and fertile with no reported phenotypic abnormalities. The TRE-AbIPP transgene has the Tet response element (TRE or *tetO*) upstream of a human c-Abl 1b isoform modified to harbor two amino acid substitutions (P242E/P249E) in the conserved proline residues of the SH2-SH3 linker region that render the protein constitutively active (AbIPP). When bred with other mice expressing tetracycline-controlled transactivator protein (tTA) or reverse tetracycline-controlled transactivator protein (rtTA), AbIPP expression in the resulting double mutant offspring can be regulated with tetracycline or its analog doxycycline (dox). As designed, AbIPP transgenic mice have no reported levels of AbIPP expression in the absence of tTA.

These AbIPP transgenic mice allow Tet-Off/Tet-On expression of a constitutively active form of c-Abl, and may be useful for studying tau phosphorylation and the pathogenesis of neurodegeneration/neuroinflammation associated with Alzheimer's disease. For example, when bred to a strain expressing tTA in forebrain neurons (Stock No. [007004](#)), the resulting AbIPP/tTA double mutant mice develop early reactive gliosis and astrogliosis that continues to a severe, progressive neurodegeneration in the CA1 region of the hippocampus. Such double mutant mice will be available as Stock No. [015838](#).

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### Tg(tetO-ABL1\*P242E\*P249E)CPdav

## ⊖ 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

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, transgene carrier mice may be bred together or to wildtype (noncarrier) mice from the colony. The donating investigator reports they have not tried to generate homozygous mice.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the STOCK Tg(tetO-ABL1\*P242E\*P249E)CPdav/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #014544 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



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## CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Hemizygous or Non carrier forTg(tetO-ABL1*P242E*P249E)CPdav	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	STOCK Tg(tetO-ABL1*P242E*P249E)CPdav/J Frozen Embryo	\$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

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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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