

## B6.Cg-Tg(PDGFB-APP)5Lms/J

Stock No: 004662 | APP<sub>w<sup>t</sup></sub> line 15

 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

Lennart Mucke, Gladstone Inst of Neurological Disease

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## GENETIC OVERVIEW

Genetic Background

Generation

### Tg(PDGFB-APP)5Lms

#### Allele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

## RESEARCH APPLICATIONS

Neurobiology 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

These transgenic mice express a wildtype human amyloid protein precursor (APP) under the control of the human platelet-derived growth factor beta polypeptide (PDGFB) promoter. PCR primer modification was used to alter the sequence of the APP<sup>Ind</sup> mutation to the wildtype sequence in this transgene. Hemizygotes express immunodetectable transgene product in cerebral neurons, with the highest level of expression occurring in the neocortex and hippocampus. Enzyme-linked immunosorbent assay (ELISA) analysis of neocortical and hippocampal tissue reveals approximate total amyloid beta peptides levels and 42 amino acid length amyloid beta peptides levels that are lower than levels found in the APP<sup>SwInd</sup> mutant line. No amyloid plaques are detected by immunohistochemistry at 8-10 months of age or at 24 months of age. Mutants display age dependent decrease in density of synaptophysin-immunoreactive presynaptic terminals indicative of neurodegeneration. This strain serves as the control for Stock No. [006293](#).

### Development

### Expression Data

### Control Suggestions

### Selected References

## Genetics

### Tg(PDGFB-APP)<sup>5Lms</sup>

## 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

Standard PCR: [Tg\(PDGFB-APP\) MCA](#)

QPCR: [Generic APP human genomic or cDNA](#)

Standard PCR: [Tg\(PDGFB-APP\)](#)

Probe: [Generic APP human genomic or cDNA](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

The resulting transgenic mice were then backcrossed for 11 generations on the C57BL/6J background. The strain is maintained as a hemizygote. Expected coat color is black.

### [Additional Breeding and Husbandry Support](#)

### Citation

When using the APP<sub>Wt</sub> line 15 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004662 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 NOT-FOR-PROFIT & ACADEMIC PRICING**

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Hemizygous or Non carrier for Tg(PDGFB-APP)5Lms	\$2,854.50

RELATED PRODUCTS AND SERVICES		
<a href="#">Frozen Mouse Embryo</a>	B6.Cg-Tg(PDGFB-APP)5Lms/J Frozen Embryos	\$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

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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

NOT AVAILABLE TO COMPANIES OR FOR COMMERCIAL  
[Use of MICE only available to non-profit entities.](#)

### 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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