

## 129(B6)-Ep300<sup>tm3Pkb</sup> /J

Stock No: 025527 | p300 delta CH1

 Congenic, Targeted Mutation

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

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useful in studies of hypoxia-responsive transcription.

### Donating Investigator

Paul K. Brindle, St. Jude Children's Research Hospital

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## GENETIC OVERVIEW

Genetic Background

Generation

*Ep300<sup>tm3Pkb</sup>*

Alele Type

Gene Symbol

Gene Name

Targeted

*Ep300*

E1A binding protein p300

VIEW GENETICS

## RESEARCH APPLICATIONS

Metabolism Research

Cell Biology Research

Diabetes and Obesity 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

*Ep300* (E1A binding protein p300) is a histone acetylase that is required for normal development. It interacts with a significant percentage of mammalian transcriptional regulatory proteins and has a CH1 domain that binds the C-terminal activation domain (C-TAD) of the hypoxia-inducible transcription factors HIF-1 $\alpha$  and HIF-2 $\alpha$ . This interaction is highly essential for hypoxia-responsive transcription, and is relevant to processes of glucose metabolism, angiogenesis, hematopoiesis, cell survival, invasion, and vascular tone.

These mice carry a targeted, partial, in-frame deletion of the CH1 domain in the mouse *Ep300* gene (amino acids 329-379) that results in a hypomorphic protein. Western blots indicate that normal levels of a stable protein with intact HAT domain are produced. This strain was backcrossed to 129S2/SvPasCrl for 22 generations by the donating lab.

Homozygotes on a random mixed background incorporating C57BL/6 and 129 alleles are overtly normal, although they are produced at about 50% the expected frequency. Two separate lines, one backcrossed to C57BL/6J (see Stock No. [025169](#)), the other backcrossed to 129S2/SvEvTac (this strain) were generated by the donating laboratory. Homozygous mutants generated from an F1 cross of these two backgrounds are viable and have increased metabolic control. They are lean and demonstrate increased insulin sensitivity.

Homozygous p300 deltaCH1 mice on this 129-backcrossed genetic background are produced at reduced Mendelian ratios (1 in 10 rather than the anticipated 1 in 4). Insulin sensitivity has not been tested and body size is normal.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Ep300*<sup>tm3Pkb</sup>

## ⊖ 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

Standard PCR:[Ep300alternate1](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

Heterozygotes are viable and fertile. Homozygotes are produced at reduced Mendelian ratios (1 in 10 rather than the anticipated 1 in 4).

[Additional Breeding and Husbandry Support](#)

### Citation

When using the p300 delta CH1 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #025527 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

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>	Heterozygous or wildtype for Ep300<tm3Pkb>/J	\$2,854.50

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## Terms Of Use

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### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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