

B6.129P2-Crebbp^{tm2Pkb}/J

Stock No: **025172**

 Congenic, Recombinant Inbred (RI), 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 transcriptional regulation and Autism Spectrum Disorders.

Donating Investigator

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

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GENETIC OVERVIEW

Genetic Background

Generation

Crebbp^{tm2Pkb}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Crebbp

CREB binding protein

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Diabetes and Obesity Research

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

The *Crebbp* gene encodes the CREB binding protein and the *Ep300* gene encodes the E1A binding protein p300, both of which are highly conserved coactivators that promote transcription and are important to the function of many hematopoietic transcription factors. These CBP^{deltaCH1} mutant mice carry an in-frame 52 amino acid deletion within the conserved 88 residue CH1 domain of the *Crebbp* gene. This mutation disrupts the ability of the CREB binding protein to bind transcriptional regulators. On the C57BL/6 congenic backgrounds homozygotes die after birth. Heterozygotes are viable and fertile on the C57BL/6 congenic background. Homozygotes on the C57BL/6 X 129 F1 hybrid background exhibit smaller size, moderate craniofacial anomalies (blunt snout), improved glucose tolerance and insulin sensitivity, as well as repetitive forelimb rubbing (limb grasping) & repetitive grooming behavior, hyperactivity and reduced anxiety. The F1 hybrids are models for Rubinstein-Taybi Syndrome and Autism Spectrum Disorders. RT-PCR confirms the correct splicing of the RNA (that would produce the deletion in the CH1 domain) in mutant MEFs. Expression of the mutant protein is similar to wild type protein when compared between wild type and homozygous mutant MEFs.

Development

Control Suggestions

Selected References

Genetics

Crebbp^{tm2Pkb}

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:[Crebbpalternate1](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred together, to wildtype siblings, or to C57BL/6J inbred mice (Stock No. [000664](#)). Homozygotes have a perinatal lethal phenotype.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.129P2-*Crebbp*^{tm2Pkb}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #025172 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](#)

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Cryo
Recovery

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SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or Wildtype for Crebbp<tm2Pkb>	\$2,854.50

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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.

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