

B6N(Cg)-*App*^{tm1.1Aduci}/J

Stock No: **032013** | hAbeta-loxP-KI on B6NJ

 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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This "humanized" *App* knock-in strain, in which 3 point mutations were introduced into exon 14 of the mouse *App* gene, produces a mutant protein that is expected to more readily aggregate. Exon 14 is also flanked by *loxP* sites. This strain may be useful for studying late-onset sporadic Alzheimer's disease.

The hAbeta-loxP-KI allele is available on a C57BL/6J congenic background (Stock No. [031050](#)), on a C57BL/6NJ congenic background (Stock No. [032013](#)) and on a mixed C57BL/6J and C57BL/6NJ background (Stock No. [030898](#)).

Donating Investigator

Frank LaFerla, University of California, Irvine

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GENETIC OVERVIEW

Genetic Background

Generation

App^{tm1.1Aduci}

Allele Type

Targeted (Conditional ready (e.g. floxed), Humanized sequence)

Gene Symbol

App

Gene Name

amyloid beta (A4) precursor protein

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

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Details

Detailed Description

hAbeta-loxP-KI knock-in is a mutant "humanized" *App* allele in which three mutations were introduced into the mouse *App* exon that encodes the A β fragment (see below), such that the sequence now encodes the same amino acids as human. This exon is also flanked by *loxP* sites. These hAbeta-loxP-KI mice express mouse APP protein with a "humanized" amyloid beta peptide sequence. Homozygotes are viable and fertile. As the mice are characterized, we will modify the strain description and add phenotype data.

Important note about *App* isoforms and exon numbering: The App-201 isoform (695 aa protein) is encoded by 16 exons, of which the Abeta sequence is encoded by exon 14. The App-206 isoform (770 aa protein) is encoded by 18 exons, of which the Abeta sequence is encoded by exon 16.

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Development

Control Suggestions

Genetics

App^{tm1.1Aduci}

⊖ 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:[App](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the hAbeta-loxP-KI on B6NJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #032013 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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Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wildtype for App<tm1.1Aduci>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6N(Cg)-App<tm1.1Aduci>/J	\$2595.00
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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.

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[Notice regarding distribution of this strain.](#)

LICENSING INFORMATION

Phone: 207-288-6470

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