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Stock No: 030898 | hAbeta-loxP-KI on mixed B6J and B6NJ

Congenic, Targeted Mutation



AVAILABLE

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

Overview



MODEL-AD

Model Organism Development & Evaluation for Late-Onset Alzheimer's Disease

Also Known As: hAbeta-loxP-KI on mixed B6J and B6NJ

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.

hAbeta-loxP-KI mice are also available on a C57BL/6NJ congenic background (Stock No. [032013](#)).

Donating Investigator

Frank LaFerla, University of California, Irvine

READ MORE +

GENETIC OVERVIEW

Genetic Background Generation
?+pN1
(2018-09-17 00:00:00)

App^{tm1.1Aduci}

Allele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), Humanized sequence)	<i>App</i>	amyloid beta (A4) precursor protein

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female

510.00 Domestic price for breeder pair

VIEW PRICE LIST

Details

Detailed Description

These hAbeta-loxP-KI knock-in mice, express a mutant "humanized" *App* allele in which mutations were introduced into exon 14. Exon 14 is flanked by *loxP* sites. These 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.

+ Development

+ Control Suggestions

- Genetics

+ *App^{tm1.1Aduci}*

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

T E C H N I C A L S P P O R T C H A T

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^{tm1.1Aduci}](#)

[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*-K1 on mixed B6J and B6NJ mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #030898 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

- Pricing & Availability



Available

Live mice available in varying quantities. Ask Customer Service for details.

Domestic International

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse

AGE	SEX	GENOTYPE	PRICE
Approx 4-8 weeks	Female	Homozygous for App ^{tm1.1Aduci}	\$255.00
	Male	Homozygous for App ^{tm1.1Aduci}	\$255.00

Breeder Pair

SEX	GENOTYPE	PRICE
Female	Heterozygous for App ^{tm1.1Aduci}	\$510.00
Male	Heterozygous for App ^{tm1.1Aduci}	

Related Products and Services

Frozen Mouse Embryo	B6(SJL)-App<tm1.1Aduci>/J	\$2595.00
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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

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

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