

B6.Cg-App^{em1Aduj} /J

Stock No: 033013 | B6J hAbeta

 Congenic, Endonuclease-Mediated Mutation

Please contact Technical Support for more information

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mice may be suitable for use in studies related to Alzheimer's disease.

Donating Investigator

Mike Sasner, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

Generation

App^{em1Aduj}

Alele Type

Endonuclease-mediated
(Humanized sequence)

Gene Symbol

App

Gene Name

amyloid beta (A4) precursor protein

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Research Tools

VIEW ALL RESEARCH APPLICATIONS

Details

Detailed Description

This hAbeta mutant strain carries a mutant allele of the *App* gene containing G601R, F606Y, and R609H point mutations. The targeted *App* gene encodes amyloid beta precursor protein, a transmembrane cell surface receptor that is cleaved by secretases. Mutations in this gene have been associated with Alzheimer's disease.

Both heterozygous and homozygous mice are viable and fertile (March 2020). If additional characterization of these hAbeta mice is performed, we may modify the strain description accordingly.

Development

Control Suggestions

Genetics

App^{em1Adiuj}

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

Probe:[App](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

Both heterozygous and homozygous mice are viable and fertile.

When maintaining a live colony, heterozygous mice may be bred to wildtype mice from the colony or to C57BL/6J inbred mice (Stock No. [000664](#)).

Alternatively, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6J hAbeta mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #033013 in your Materials and Methods section.

STRAIN INTEREST REGISTRATION

Please fill out the form below to indicate your interest in purchasing this JAX®Mice strain.

This information helps us manage the colony build and better meet the broad needs of the research community.

Please send any technical questions to [Technical Support](#).

CONTACT INFORMATION

First Name

Last Name

Institution

Phone Number

Email

INTEREST

Please indicate your approximate levels of interest. You can add another line by selecting "Add More Interest".

Number of Mice

Frequency

Product

Comment

Frequency...

Products...

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LICENSING INFORMATION

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