



# B 6 ( S J A L <sup>tm1.1(APOE\*4)Adiuj</sup> / J

Stock No: 027894 | APOE4 KI

Targeted Mutation



AVAILABLE

P L A C E O R D E R

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



# MODEL-AD

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

## Also Known As: APOE\*4 KI, APOE4 KI

This mutant of the *ApoE* gene carries a humanized ApoE knock-in mutation (sequence coding for isoform E4). These mice may be suitable for use in studies related to lipoproteins, arteriosclerosis, and coronary heart disease.

### Donating Investigator

Mike Sasner, The Jackson Laboratory

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## GENETIC OVERVIEW

Genetic Background	Generation
	?+pN2F10 (2019-12-12 00:00:00)

*ApoE*<sup>tm1.1(APOE\*4)Adiuj</sup>

Allele Type	Gene Symbol	Gene Name
Targeted (Inserted expressed sequence, Humanized sequence)	<i>ApoE</i>	apolipoprotein E

[VIEW GENETICS](#)

## RESEARCH APPLICATIONS

Research Tools  
Neurobiology Research  
Metabolism Research  
Cardiovascular Research

[VIEW ALL RESEARCH APPLICATIONS](#)

## BASE PRICE

Starting at:

\$270.00 Domestic price for female 4-week

[VIEW PRICE LIST](#)

## Details

### Detailed Description

To generate this humanized ApoE knock-in strain, exons 2, 3 and most of exon 4 of the mouse *ApoE* gene were replaced by human *APOE* gene sequence including exons 2, 3 and 4 (and some 3' UTR sequence). The targeted *ApoE* gene encodes apolipoprotein E, which is important in lipoprotein metabolism and cardiovascular disease as well as Alzheimer's disease, immunoregulation and cognition. Homozygotes are viable and fertile. As the mice are characterized, we will modify the strain description and add phenotype data.

### Development

### Expression Data

### Control Suggestions

## Genetics

### *ApoE*<sup>tm1.1(APOE\*4)Adiuj</sup>

## Disease/Phenotype

### Disease Terms

### Research Areas By Genotype

### Mammalian Phenotype Terms by Genotype

### References

## Technical Support

TECHNICAL SUPPORT CHAT

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### Genotyping Protocols

Sanger sequencing: *ApoE*<sup>tm1.1(APOE\*4)Msasn-E4</sup>

Standard PCR: *ApoE*<sup>tm1.1(APOE\*4)Adiuj</sup>

Probe: *ApoE*<sup>em#(APOE\*4)</sup> 5 prime GC

[Genotyping resources and troubleshooting](#)

### Dietary Information

New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

### 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 APOE4 KI mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #027894 in your Materials and Methods section.

 [AX18 \(Maximum\)](#)

## ➔ Pricing & Availability



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

Available

## Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

### Live Mouse

AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
	Male	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
5 weeks	Female	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
	Male	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
6 weeks	Female	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
	Male	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
7 weeks	Female	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
	Male	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
8 weeks	Female	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
	Male	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
9 weeks	Female	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
	Male	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
10 weeks	Female	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
	Male	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
11 weeks	Female	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
	Male	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
12 weeks	Female	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00
	Male	Homozygous for Apoe <sup>tm1.1(APOE*4)Adiuj</sup>	\$270.00

## Related Products and Services

Frozen Mouse Embryo

[B6\(SJL\)-Apoe<sup>tm1.1\(APOE\\*4\)Adiuj</sup>/J Frozen Embryo](#)

\$2595.00

## Payment Terms and Conditions

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## 🔙 Terms Of Use

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