

C57BL/6-*Adnp*^{em1Ant} /J

Stock No: 033128

Coisogenic, Endonuclease-Mediated Mutation

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

PLACE ORDER

Email Download PDF Help

Van der Aa syndrome.

Donating Investigator

Frank Kooy, University of Antwerp

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

?+pN2F1
(2021-04-08 00:00:00)

Adnp^{em1Ant}

Alele Type

Gene Symbol

Gene Name

Endonuclease-mediated
(Null/Knockout)

Adnp

activity-dependent neuroprotective protein

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female

333.51 Domestic price for breeder pair

V I E W P R I C E L I S T

Details

Detailed Description

CRISPR/Cas9 endonuclease mediated genome editing of the *Adnp* (activity-dependent neuroprotective protein) gene introduced a 14 nucleotide deletion in exon 5. The targeted *Adnp* gene encodes a putative transcription factor that is involved in chromatin remodelling. Mutations in *Adnp* are associated with Helsmoortel-Van der Aa syndrome, a condition characterized by learning disabilities and autism spectrum disorder. Mice heterozygous for the mutation are viable and fertile. However, the donating investigator reports that heterozygote x wild type matings produce less than the expected 50% of pups carrying the mutant allele. In addition, heterozygote x heterozygote matings have not produced pups under standard breeding conditions. Mice heterozygous for the allele exhibit learning deficits as demonstrated in the in the Morris water maze test as well as increased anxiety and repetitive behavior. This strain maybe useful for the study of Helsmoortel-Van der Aa syndrome, autism and learning deficits in general and specific types of chromatin remodeling.

This model is made available by Frank Kooy (University of Antwerp) with support from the Simons Foundation Autism Research Initiative (SFARI).

Development

Control Suggestions

Genetics

Adnp^{em1Ant}

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

Sanger sequencing:[Adnp](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, heterozygote mice may be bred to wild type from the colony or C57BL/6NJ mice (Stock No. [005304](#)). Heterozygous x heterozygote matings are non-productive. Heterozygote x wild type matings produce less than the expected number of pups carrying the mutant allele.

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Wild-type

Wild-type x Heterozygote

Citation

When using the C57BL/6-*Adnp*^{em1Ant}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #033128 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [FGB29 \(Standard\)](#)

[- 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
Approx 4-8 weeks	Female	Heterozygous for Adnp ^{em1Ant}	\$255.00
	Male	Heterozygous for Adnp ^{em1Ant}	\$255.00
Approx 4-8 weeks	Female	Wild-type for Adnp ^{em1Ant}	\$78.51
	Male	Wild-type for Adnp ^{em1Ant}	\$78.51

BREEDER PAIR

SEX	GENOTYPE	PRICE
Female	Heterozygous for Adnp ^{em1Ant}	\$333.51
Male	Wild-type for Adnp ^{em1Ant}	
Female	Wild-type for Adnp ^{em1Ant}	\$333.51
Male	Heterozygous for Adnp ^{em1Ant}	

PAYMENT TERMS AND CONDITIONS

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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.

Terms Of Use

TERMS OF USE

[General Terms and Conditions](#)

QUESTIONS ABOUT TERMS OF USE

ADDITIONAL USE RESTRICTIONS APPLY

[The use of this mouse model is subject to the terms and conditions of the Limited License from The Broad](#)

Institute.

The use of this mouse model is subject to the terms and conditions of the Limited Use Label License from Caribou Biosciences, Inc.

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



DO YOU NEED BALB/c MICE?

Rely on JAX to provide the models you need, when you need them.

LEARN MORE



CONTACT



DONATE



SUBSCRIBE

JAX HOME CAREERS LEGAL INFORMATION

RESEARCH CENTERS MOUSE GENOME INFORMATICS

MOUSE PHENOME DATABASE

Leading the search for

TOMORROW'S CURES



©2021 THE JACKSON LABORATORY

Choose other country or region



^ E E E D B

Did you find what you were looking for?

Yes No