

B6J.B6N-Tc(HSA17)1Mdk/J

Stock No: 033668 | MAPT(H2)-GR

 Congenic

Live colonies will be removed soon

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MAPT(H2)-GR mice express the human MAPT (H2 haplotype) and MAPT-AS1 transcripts and the typical MAPT protein isoforms.

Donating Investigator

Michael Koob, University of Minnesota

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GENETIC OVERVIEW

Genetic Background

Generation

N5+pN1
(2020-01-02 00:00:00)

Tc(HSA17)1Mdk

Alele Type

Targeted (Inserted expressed sequence, Humanized sequence)

Gene Symbol

Tc(HSA17)1Mdk

Gene Name

transchromosomal, human 17, line 1, Michael Koob

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female

\$2,854.50 Domestic price Cryo Recovery

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

Details

Detailed Description

The transchromosomal (Tc) MAPT(H2)-GR mice contain a syntenic 190 kb region from human chromosome 17 (HSA17) that includes *SPPLC2* (signal peptide peptidase 2C) and *MAPT* (microtubule-associated protein tau), specifically the H2 haplotype. The region replaces 157 kb on mouse chromosome 11 stretching from, but not including, *Crhr1* to *Kansl1*. The *SPPLC2* sequence is included because it is embedded entirely in the *MAPT-AS1* transcribed region.

Human MAPT (microtubule-associated protein tau) is found within a 900 kb inversion on Chr 17q21 that defines two haplotypes, H1 and H2, found in Caucasians. The haplotypes are distinguished by a series of polymorphisms that include the MAPT sequence. A227A (GCA to GCG), is a silent point mutation in exon 9 of the MAPT isoform 441. The minor G allele is carried by H2 and the A allele is found in the more common H1 haplotype. H1 is linked with late onset Alzheimer's disease (AD) risk, progressive supranuclear palsy, Parkinson's disease, and corticobasal degeneration. H2 is associated with decreased risk of late onset AD, and lower MAPT levels in the cerebellum and temporal cortex.

Homozygous mice are viable and fertile and exhibit no obvious phenotype. These mice express the human MAPT (H2 haplotype) and MAPT-AS1 transcripts and the typical MAPT protein isoforms.

Development

Control Suggestions

Genetics

Tc(HSA17)1Mdk

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: [Tc\(HSA17\)1Mdk MAPT](#)

Standard PCR: [Tc\(HSA17\)1Mdk SPPL2C](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice are bred by homozygote sibling matings.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the MAPT(H2)-GR mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #033668 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [FGB29 \(Standard\)](#)

[- Pricing & Availability](#)



Live colonies will be removed soon

Available

Domestic | **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE

AGE

SEX

GENOTYPE

PRICE

Approx 4-8 weeks

SEX	Homozygous for Tc(HSA17)1Mdk	\$255.00
male	Homozygous for Tc(HSA17)1Mdk	\$255.00

CRYORECOVERY - DOMESTIC PRICING		
SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous for Tc(HSA17)1Mdk	\$2,854.50

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6J.B6N-Tc(HSA17)1Mdk/J	\$2595.00

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