

B6.129-Kras^{tm4Tyj} Trp53^{tm1Brn} /J

Stock No: **032435** | KP, K;F1/F1

 Congenic, Targeted Mutation

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

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expression in pancreas (see Stock No. [024968](#)), the resulting compound strain generated, KPCX, is a model for pancreatic ductal adenocarcinoma.

Donating Investigator

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GENETIC OVERVIEW

Genetic Background

Generation

[N1F3](#)
(2020-02-18 00:00:00)

Trp53^{tm1Brn}

Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Trp53

Gene Name

transformation related protein 53

Kras^{tm4Tyj}

Alele Type

Targeted (Conditional ready (e.g. floxed), No functional change)

Gene Symbol

Kras

Gene Name

Kirsten rat sarcoma viral oncogene homolog

VIEW GENETICS

RESEARCH APPLICATIONS

Cancer Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

510.00 Domestic price for breeder pair

VIEW PRICE LIST

Details

Detailed Description

These double mutant KP mice carry the conditional activatable $Kras^{tm4Tyj}$ allele and the floxed $Trp53^{tm1Bm}$ allele.

The $Kras^{tm4Tyj}$ allele contains a point mutation (G12D) whose expression is blocked by the presence of a *loxP*-flanked stop codon. Mice homozygous for the $Kras^{tm4Tyj}$ allele die *in utero*. Cre-mediated recombination can excise the stop codon and permit the oncogenic protein to be expressed.

The $Trp53^{tm1Bm}$ allele contains *loxP* sites flanking exons 2 through 10 of the *Trp53* gene. Mice homozygous for the $Trp53^{tm1Bm}$ allele have a somewhat reduced fertility, but may be bred.

When bred to a strain with inducible Cre recombinase expression in KRT19-expressing epithelial cells (see Stock No. [0026925](#) for example), this mutant mouse strain may be useful in studies of intestinal and skin cancer.

Following cre-adenovirus these KP mice develop lung tumors that are similar to the tumors observed in mice carrying the $Kras^{tm4Tyj}$ $Trp53^{tm2Tyj}$ alleles (see Stock No. [008179](#) and Stock No. [008652](#)).

Mice heterozygous for both the $Kras^{tm4Tyj}$ and $Trp53^{tm1Bm}$ alleles exhibit smaller lung lesions compared to mice heterozygous for the $Kras^{tm4Tyj}$ and homozygous for the $Trp53^{tm1Bm}$ allele, 6 weeks following cre-adenovirus treatment.

Development

Control Suggestions

Selected References

Genetics

+ [Trp53^{tm1Bm}](#)

+ [Kras^{tm4Tyj}](#)

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: [Trp53 Probe](#)

Standard PCR: [Trp53](#)

Standard PCR: [Kras Alt1](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52/5K67

Breeding Considerations

When maintaining a live colony, mice may be bred as heterozygous for the *Kras*^{tm4Tyj} and homozygous for the *Trp53*^{tm1Bm} allele. Mice homozygous for the *Kras*^{tm4Tyj} allele die *in utero*.

Additional Breeding and Husbandry Support

Mating System

Heterozygous for *Kras*^{tm4Tyj} Homozygous for *Trp53*^{tm1Bm} x Wildtype for *Kras*^{tm4Tyj} Homozygous for *Trp53*^{tm1Bm}

or

Wildtype for *Kras*^{tm4Tyj} Homozygous for *Trp53*^{tm1Bm} x Heterozygous for *Kras*^{tm4Tyj} Homozygous for *Trp53*^{tm1Bm}

Citation

When using the KP, K;F1/F1 mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #032435 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

➔ Pricing & Availability



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Available

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
4 weeks	Female	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
5 weeks	Female	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
5 weeks	Female	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
6 weeks	Female	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
6 weeks	Female	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
7 weeks	Female	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
7 weeks	Female	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
8 weeks	Female	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
8 weeks	Female	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00

	SEX	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
9 weeks	Female	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
9 weeks	Female	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
10 weeks	Female	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
10 weeks	Female	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
11 weeks	Female	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
11 weeks	Female	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
12 weeks	Female	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Heterozygous for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
12 weeks	Female	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00
	Male	Wild-type for Kras ^{tm4Tyj} Homozygous for Trp53 ^{tm1Brn}	\$255.00

BREEDER PAIR			
SEX	GENOTYPE		PRICE
Female	Wild-type for Kras ^{tm4Tyj}	Homozygous for Trp53 ^{tm1Brn}	\$510.00
Male	Heterozygous for Kras ^{tm4Tyj}	Homozygous for Trp53 ^{tm1Brn}	
Female	Heterozygous for Kras ^{tm4Tyj}	Homozygous for Trp53 ^{tm1Brn}	\$510.00
Male	Wild-type for Kras ^{tm4Tyj}	Homozygous for Trp53 ^{tm1Brn}	

RELATED PRODUCTS AND SERVICES		
Frozen Mouse Embryo	B6.129-Kras<tm4Tyj> Trp53<tm1Brn>/J	\$2595.00

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