

STOCK *Trp53*^{tm1Brd} *Brca1*^{tm1Aash} Tg(LGB-cre)74AcI/J

Stock No: **012620** | BLG-Cre; *Brca1*^{F22-24}; p53 KO

Targeted Mutation, Transgenic

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

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cancer 1 (*Brca1*) allele, and are heterozygous for p53 tumor-suppressor gene (*Trp53*) deficiency. This strain may be useful for studying human basal-like cancer and breast cancer, as well as providing a useful tool for testing new therapeutics.

Donating Investigator

Afshan McCarthy, The Breakthrough Toby Robins Breast Canc

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GENETIC OVERVIEW

Genetic Background

Generation

F?+F26
(2020-03-19 00:00:00)

Trp53^{tm1Brd}

Alele Type

Targeted (Null/Knockout)

Gene Symbol

Trp53

Gene Name

transformation related protein 53

Tg(LGB-cre)74AcI

Alele Type

Transgenic (Recombinase-expressing)

Brca1^{tm1Aash}

Alele Type

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

Gene Symbol

Brca1

Gene Name

breast cancer 1, early onset

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools
Endocrine Deficiency Research
Cancer Research
Neurobiology Research

[VIEW ALL RESEARCH APPLICATIONS](#)

BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

556.00 Domestic price for breeder pair

[VIEW PRICE LIST](#)

[Details](#)

Important Note

To induce the tumor development in these mice, the donating investigator reports that *BLG-Cre; Brca1^{tm1Aash}; Trp53^{+/-}* mice should be allowed to go through two rounds of pregnancy and then set aside to allow Cre activation and the loss of Brca1 function.

[Detailed Description](#)

BLG-Cre; Brca1^{tm1Aash}; Trp53^{+/-} mice that carry the beta-lactoglobulin Cre (*BLG-Cre*) transgene are homozygous for floxed exons 22-24 of the breast cancer 1 (*Brca1*) allele, and are heterozygous for p53 tumor-suppressor gene (*Trp53*) deficiency. Mice of this genotype are viable, fertile, normal in size and do not display any behavioral abnormalities. *BLG-Cre; Brca1^{tm1Aash}; Trp53^{+/-}* females have expression of the *BLG-Cre* transgene during lactation; which leads to loss of *Brca1* function in the mammary gland. This results in formation of mammary tumors exhibiting high grade central necrosis and metaplastic elements in the form of spindle cell and squamous cell differentiation; as seen in human basal-like breast cancers and BRCA1 mutation carriers. Heterozygosity for the mutant p53 allele accelerates the formation of mammary tumors. This strain may be useful for studying human basal-like cancer and breast cancer, as well as providing a useful tool for testing new therapeutics.

[Development](#)

[Expression Data](#)

[+ Control Suggestions](#)

[+ Selected References](#)

[- Genetics](#)

[+ *Trp53^{tm1Brd}*](#)

[+ Tg\(LGB-cre\)74Acl](#)

[+ *Brca1^{tm1Aash}*](#)

[- 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:[Tg\(LGB-cre\)74Acl](#)

Standard PCR:[Trp53](#)

Standard PCR:[Brca1](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

To induce the tumor development in these mice, the donating investigator reports that *BLG-Cre; Brca1^{F22-24/F22-24}; p53^{+/-}* mice should be allowed to go through two rounds of pregnancy and then set aside to allow Cre activation and the loss of Brca1 function.

Additional Breeding and Husbandry Support

Mating System

Heterozygous Homozygous Noncarrier x Wildtype Homozygous Hemizygous AND Wildtype Homozygous Noncarrier x Heterozygous Homozygous Hemizygous

Citation

When using the *BLG-Cre; Brca1^{F22-24}; p53* KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #012620 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

➔ 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
4 weeks	Female	Heterozygous for Trp53 ^{tm1Brd} , Homozygous for Brca1 ^{tm1Aash} , Hemizygous for Tg(LGB-cre)74Acl	\$278.00
	Male	Heterozygous for Trp53 ^{tm1Brd} , Homozygous for Brca1 ^{tm1Aash} , Hemizygous for Tg(LGB-cre)74Acl	\$278.00
4 weeks	Female	Heterozygous for Trp53 ^{tm1Brd} , Homozygous for Brca1 ^{tm1Aash} , Noncarrier	\$278.00
	Male	Heterozygous for Trp53 ^{tm1Brd} , Homozygous for Brca1 ^{tm1Aash} , Noncarrier	\$278.00
5 weeks	Female	Heterozygous for Trp53 ^{tm1Brd} , Homozygous for Brca1 ^{tm1Aash} , Hemizygous for Tg(LGB-cre)74Acl	\$278.00
	Male	Heterozygous for Trp53 ^{tm1Brd} , Homozygous for Brca1 ^{tm1Aash} , Hemizygous for Tg(LGB-cre)74Acl	\$278.00
5 weeks	Female	Heterozygous for Trp53 ^{tm1Brd} , Homozygous for Brca1 ^{tm1Aash} , Noncarrier	\$278.00
	Male	Heterozygous for Trp53 ^{tm1Brd} , Homozygous for Brca1 ^{tm1Aash} , Noncarrier	\$278.00
6 weeks	Female	Heterozygous for Trp53 ^{tm1Brd} , Homozygous for Brca1 ^{tm1Aash} , Hemizygous for Tg(LGB-cre)74Acl	\$278.00
	Male	Heterozygous for Trp53 ^{tm1Brd} , Homozygous for Brca1 ^{tm1Aash} , Hemizygous for Tg(LGB-cre)74Acl	\$278.00

SEX	GENOTYPE	PRICE
Female	Heterozygous for Trp53 ^{tm1Brd} , Homozygous for Brca1 ^{tm1Aash} , Noncarrier	\$556.00
Male	Heterozygous for Trp53 ^{tm1Brd} , Homozygous for Brca1 ^{tm1Aash} , Hemizygous for Tg(LGB-cre)74AcI	

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	STOCK Trp53<tm1Brd> Brca1<tm1Aash> Tg(LGB-cre)74AcI/J Frozen	\$2595.00
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