

B6.129X1-*Twist2*^{tm1.1(cre)Dor} /J

Stock No: **008712** | *Twist2*-

 Congenic, Targeted Mutation

Live colonies will be removed soon

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These *Twist2*-cre (or, *Dermo1*-cre) mutant mice harbor a Cre recombinase knock-in allele that also abolishes endogenous twist homolog 2 (*Drosophila*) (*Twist2*) gene function. They may be useful for Cre-lox applications/*Twist2*-deficiency research in embryogenesis of mesoderm-derived tissues (including chondrocytes and osteoblasts), as well as NF-kappaB transcription factor/cytokine signaling pathways.

Donating Investigator

David Ornitz, Washington University School of Medicine

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GENETIC OVERVIEW

Genetic Background

Generation

[N11+N2](#)
(2020-04-13 00:00:00)

Twist2^{tm1.1(cre)Dor}

Alele Type

Targeted (Recombinase-expressing)

Gene Symbol

Twist2

Gene Name

twist basic helix-loop-helix transcription factor 2

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Neurobiology Research

Developmental Biology Research

Cancer Research

Immunology, Inflammation and Autoimmunity Research

Dermatology Research

BASE PRICE

Starting at:

\$278.00 Domestic price for female 4-week

356.51 Domestic price for breeder pair

\$2,854.50 Domestic price Cryo Recovery

VIEW PRICE LIST

Details

Detailed Description

Twist2-cre (or, Dermo1-cre) mutant mice harbor a Cre recombinase "knock-in" allele that also abolishes endogenous *Twist2* gene function. Heterozygotes are viable and fertile, while homozygotes (*twist-2^{fl}*) die a few days after birth. Under control of the upstream promoter/enhancer elements, *cre* expression is observed in a pattern consistent with the wildtype gene; Cre recombinase activity is reported in mesoderm as early as embryonic day 9.5, in mesodermal tissues such as branchial arches and somites, and in condensed mesenchyme-derived chondrocytes and osteoblasts. When heterozygotes are bred with mice containing a *loxP*-flanked sequence of interest, Cre-mediated recombination will result in deletion of the floxed sequences in Dermo1-expressing tissues of the offspring. Homozygous mice exhibit elevated expression of pro-inflammatory cytokines resulting in perinatal death from cachexia (wasting), as well as progressive growth retardation, impaired movement, thin skin with sparse hair, and severe subcutaneous and internal fat deficiency.

In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. It should be noted that the phenotype could vary from that originally described. We will modify the strain description if necessary as published results become available.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

Genetics

+ [Twist2^{tm1.1\(cre\)Dor}](#)

– 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: [Twist2alternate1](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, heterozygous mice may be bred together or to wildtype siblings. Homozygotes die a few days after birth.

[Additional Breeding and Husbandry Support](#)

Mating System

+/+ sibling x Heterozygote

Citation

When using the Twist2- mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #008712 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

➔ 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
4 weeks	Female	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
	Male	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
4 weeks	Female	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
	Male	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
5 weeks	Female	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
	Male	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
5 weeks	Female	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
	Male	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
6 weeks	Female	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
	Male	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
6 weeks	Female	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
	Male	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
7 weeks	Female	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
	Male	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
7 weeks	Female	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
	Male	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
8 weeks	Female	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
	Male	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
8 weeks	Female	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
	Male	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
9 weeks	Female	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
	Male	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
9 weeks	Female	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
	Male	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
10 weeks	Female	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
	Male	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
10 weeks	Female	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
	Male	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51

11 weeks	SEX	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
	Male	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
11 weeks	Female	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
	Male	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
12 weeks	Female	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
	Male	Heterozygous for Twist2 ^{tm1.1(cre)Dor}	\$278.00
12 weeks	Female	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51
	Male	Wild-type for Twist2 ^{tm1.1(cre)Dor}	\$78.51

BREEDER PAIR			
SEX	GENOTYPE		PRICE
Female	Heterozygous for Twist2 ^{tm1.1(cre)Dor}		\$356.51
Male	Wild-type for Twist2 ^{tm1.1(cre)Dor}		
Female	Wild-type for Twist2 ^{tm1.1(cre)Dor}		\$356.51
Male	Heterozygous for Twist2 ^{tm1.1(cre)Dor}		

CRYORECOVERY - DOMESTIC PRICING		
SERVICE/PRODUCT	DESCRIPTION	PRICE
Cryo Recovery	Heterozygous or wild-type for Twist2 ^{tm1.1(cre)Dor} >	\$2,854.50

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