



NOD.Cg-Tg(TcraBDC2.5,TcrbBDC2.5)

Stock No: 004460 | BDC2.5 TCR

Congenic, Transgenic



AVAILABLE NOW

PLACE ORDER

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

Also Known As: NOD.BDC2.5, BDC2.5 TCR

These transgenic mice express the diabetogenic CD4+ T cell clone BDC-2.5 specific regulatory T cell receptor.

Donating Investigator

Christophe Benoist, Joslin Diabetes Center

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

N11+pN7

(2019-03-01 00:00:00)

Tg(Tcr α BDC2.5,Tcr β BDC2.5)1Doi

Allele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Diabetes and Obesity Research

Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$236.78 Domestic price for female 4-week

315.29 Domestic price for breeder pair

VIEW PRICE LIST

Details

Detailed Description

These transgenic mice carry both rearranged TCR alpha and beta genes from the cytotoxic CD4+ T cell clone BDC-2.5. When paired with a homozygous *Rag1*^{tm1Mbm} mutation (such as in Stock No. [003729](#)), recombination of endogenous TCR and Ig is prevented so that mature T cells in these mice express only the BDC2.5 TCR. On the NOD background, mice carrying the transgenes have a reduced incidence of diabetes relative to NOD/ShiLtJ controls (12% incidence at age 30 weeks). When coupled

with the homozygous *Rag1*^{tm1.1NODtm} mutation, mice develop diabetes extremely early (mean age of 25 days). (Katz et al 1993, Gonzalez et al 2001, Mombaerts et al 1992)

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

- Genetics

+ Tg(TcraBDC2.5,TcrbBDC2.5)1Doi

- Disease/Phenotype

+ Disease Terms

+ Research Areas By Genotype

+ Mammalian Phenotype Terms by Genotype

+ References

- Technical Support

T E C H N I C A L S P P O R T C H A T

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\(TcraBDC2.5,TcrbBDC2.5\)1Doi](#)

Standard PCR:[Tg\(TcraBDC2.5,TcrbBDC2.5\)1Doi](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

Breeding Considerations

When maintaining a live colony, hemizygous mice are bred to wildtype siblings. Homozygous mice may not display delayed onset of diabetes.

[Additional Breeding and Husbandry Support](#)

Mating System

Noncarrier x Hemizygote

001976 NOD/ShiLtJ x Hemizygote

Appearance

albino

Related Genotype: Tyr^c/Tyr^c

albino, pink eyed

Related Genotype: $A/A Tyr^c/Tyr^c$

Citation

When using the BDC2.5 TCR mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #004460 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [AX18 \(Maximum\)](#)

➔ Pricing & Availability



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Available Now

Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

Live Mouse			
AGE	SEX	GENOTYPE	PRICE
4 weeks	Female	Hemizygous for Tg(TcraBDC2.5,TcrbBDC2.5)1Doi	\$236.78
	Male	Hemizygous for Tg(TcraBDC2.5,TcrbBDC2.5)1Doi	\$236.78
4 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
5 weeks	Female	Hemizygous for Tg(TcraBDC2.5,TcrbBDC2.5)1Doi	\$236.78
	Male	Hemizygous for Tg(TcraBDC2.5,TcrbBDC2.5)1Doi	\$236.78
5 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
6 weeks	Female	Hemizygous for Tg(TcraBDC2.5,TcrbBDC2.5)1Doi	\$236.78
	Male	Hemizygous for Tg(TcraBDC2.5,TcrbBDC2.5)1Doi	\$236.78
6 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
7 weeks	Female	Hemizygous for Tg(TcraBDC2.5,TcrbBDC2.5)1Doi	\$236.78
	Male	Hemizygous for Tg(TcraBDC2.5,TcrbBDC2.5)1Doi	\$236.78
7 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51
8 weeks	Female	Hemizygous for Tg(TcraBDC2.5,TcrbBDC2.5)1Doi	\$236.78
	Male	Hemizygous for Tg(TcraBDC2.5,TcrbBDC2.5)1Doi	\$236.78
8 weeks	Female	Noncarrier	\$78.51
	Male	Noncarrier	\$78.51

Breeder Pair		PRICE
SEX	GENOTYPE	
Female	Noncarrier	\$315.29
Male	Hemizygous for Tg(TcraBDC2.5,TcrbBDC2.5)1Doi	

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