Overview

Also Known As: NOD.Tg B:16 alanine, line F (high)

These Line F mice carry a transgene expressing a mutated insulin, and approximately 15% of females become diabetic.

Donating Investigator

George Eisenbarth, U of Colorado
GENETIC OVERVIEW

Genetic Background

Tg(Ins2*Y16A)3Ell

Allele Type
Transgenic (Inserted expressed sequence)

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Research Tools
Diabetes and Obesity Research

BASE PRICE

Starting at:

$2,854.50 Domestic price Cryo Recovery

Details

Expression has been reported in the pancreatic islets and thymus of NOD mice carrying the Tg(Ins2*Y16A)3Ell mutation. Approximately 15% of line F female transgenic mice become diabetic in the presence of native insulin genes by 35 weeks of age. NOD female transgenic mice lacking both Ins1 and Ins2 fail to produce insulin autoantibodies, and there is no diabetes or insulitis at 26 weeks of age, but sialitis is present. In contrast, transgenic mice in the presence of Ins1 and lacking Ins2 develop diabetes in 75% of the animals by 25 weeks of age (Nakayama et al, 2004, 2005). NOD-Tg(Ins2*Y16A)3Ell/GseJ is useful to study insulin-reactive autoimmunity.

Development

Expression Data
Genotyping Protocols
Genotyping resources and troubleshooting

Appearance
albino, pink eyed
Related Genotype: A/A Tyr<sup>c</sup>/Tyr<sup>c</sup>

Citation
When using the NOD.Tg B:16 alanine, line F (high) mouse strain in a publication, please cite the originating article(s) and include JAX stock #005523 in your Materials and Methods section.

Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, G200

Pricing & Availability

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.
We will fulfill your order by providing at least two carriers for each strain ordered. The total number, sex, and genotypes provided will vary, although typically 8 or more animals are provided. Please check genotypes which will be recovered. While the genotypes of all animals produced will be communicated to you prior to scheduling shipment, the genotypes of animals provided may not reflect the mating scheme and genotypes described in the strain description. Animals are typically ready to ship in 11-14 weeks. If a second recovery is required to produce the minimum number of animals, then delivery time would increase to approximately 25 weeks. If we fail to produce animals of the correct genotype, you will not be charged. We cannot guarantee the reproductive success of mice shipped to your facility. If the mice are lost after the first three days (post-arrival) or do not produce progeny at your facility, a new order and fee will be necessary.

Cryorecovery to establish a Dedicated Supply for greater quantities of mice. Mice recovered can be used to establish a dedicated colony to contractually supply you mice according to your requirements. Price by quotation.

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All

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