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Stock No: 030890 | NSG-Tg(Hu-IL15)

◆ Congenic, Spontaneous Mutation, Targeted Mutation, Transgenic



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Overview

Also Known As: NSG-Tg(Hu-IL15)

The transgenic NSG-Tg(Hu-IL15) mice express human IL15 and combined with the highly immunodeficient NOD scid gamma (NSG) mouse. Expression of human IL15 enhances the development of human NK cells in immunodeficient mice engrafted with human stem cells. This strain may be useful for studying immunotherapies targeting NK cells and NK cell function in tumorigenesis.

Donating Investigator

Dr. Leonard D. Shultz, The Jackson Laboratory

READ MORE +

GENETIC OVERVIEW

Genetic Background

Generation

[Contact Technical Support](#)
(2018-10-10 00:00:00)

Prkdc^{scid}

Allele Type

Gene Symbol

Gene Name

Spontaneous

Prkdc

protein kinase, DNA activated, catalytic polypeptide

Il2rg^{tm1Wjl}

Allele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Il2rg

interleukin 2 receptor, gamma chain

Tg(IL15)1Sz

Allele Type

Transgenic (Inserted expressed sequence, Humanized sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Virology Research

Cancer Research

Immunology, Inflammation and Autoimmunity Research

Research Tools

Internal/Organ Research

BASE PRICE

Starting at:

\$249.90 Domestic price for male 3-week

VIEW PRICE LIST

Details

Detailed Description

NSG-Tg(Hu-IL15) mutant mice combine the features of the severe combined immune deficiency mutation or *scid* (B and T cell deficiency) and IL2 receptor gamma chain deficiency (NK cell deficiency) with expression of the human IL15 gene on the NOD/ShiLtJ background. Mice homozygous for the three mutations are viable, normal in size and do not display any gross physical or behavioral abnormalities; survival is similar to NSG mice. Hemizygous NSG-Tg(Hu-IL15) mice express a physiological level of human IL15 (7.1 +/- 0.3 pg/ml). Mice irradiated and injected with CD34+ human stems cells (HSC) develop significantly higher levels of functional human CD56+ NK cells in peripheral blood, spleen and bone marrow than NSG controls. This strain may be useful for studying immunotherapies targeting NK cells and NK cell function in tumorigenesis.

Development

Control Suggestions

Genetics

Prkdc^{scid}

Il2rg^{tm1Wjl}

Tg(IL15)1Sz

Disease/Phenotype

Disease Terms

Research Areas By Genotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

Genotyping Protocols

Probe: [Il2rg^{tm1Wjl}-PROBE](#)

End Point Analysis: [Prkdc^{scid}](#)

QPCR: [Tg\(IL15\)1Sz](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice are bred as homozygous for all three alleles (*Il2rg* is X-linked). Specific pathogen-free (SPF) conditions are recommended.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygous for Prkdc<
scid>

Homozygous for Il2rg<
tm1Wjl>

Homozygous for Tg(IL15)1Sz X Homozygous for Prkdc<
scid>

Hemizygous for Il2rg<
tm1Wjl>

Homozygous for Tg(IL15)1Sz

Citation

When using the NSG-Tg(Hu-IL15)

mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #030890 in your Materials and Methods section.

[Facility Barrier Level Descriptions](#)

 [RB03 \(Maximum\)](#)

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Live Mouse

AGE	SEX	GENOTYPE	PRICE
3 weeks	Female	Homozygous for Prkdc ^{scid} Homozygous for Il2rg ^{tm1Wjl} Homozygous for Tg(IL15)1Sz	\$289.53
3 weeks	Male	Homozygous for Prkdc ^{scid} Hemizygous for Il2rg ^{tm1Wjl} Homozygous for Tg(IL15)1Sz	\$249.90

4 weeks		Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$289.53
4 weeks	SEX	Homozygous for Prkdc ^{scid}	Hemizygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$249.90
5 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$289.53
5 weeks	Male	Homozygous for Prkdc ^{scid}	Hemizygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$249.90
6 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$294.68
6 weeks	Male	Homozygous for Prkdc ^{scid}	Hemizygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$255.05
7 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$299.83
7 weeks	Male	Homozygous for Prkdc ^{scid}	Hemizygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$260.20
8 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$304.98
8 weeks	Male	Homozygous for Prkdc ^{scid}	Hemizygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$265.35
9 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$310.13
9 weeks	Male	Homozygous for Prkdc ^{scid}	Hemizygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$270.50
10 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$315.28
10 weeks	Male	Homozygous for Prkdc ^{scid}	Hemizygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$275.65
11 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$320.43
11 weeks	Male	Homozygous for Prkdc ^{scid}	Hemizygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$280.80
12 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$325.58
12 weeks	Male	Homozygous for Prkdc ^{scid}	Hemizygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$285.95
13 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$330.73
13 weeks	Male	Homozygous for Prkdc ^{scid}	Hemizygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$291.10
14 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$335.88
14 weeks	Male	Homozygous for Prkdc ^{scid}	Hemizygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$296.25
15 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$341.03
15 weeks	Male	Homozygous for Prkdc ^{scid}	Hemizygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$301.40
16 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$346.18
17 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$351.33
18 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$356.48
19 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$361.63
20 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$366.78
21 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$371.93
22 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$377.08
23 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$382.23
24 weeks	Female	Homozygous for Prkdc ^{scid}	Homozygous for Il2rg ^{tm1Wjl}	Homozygous for Tg(IL15)1Sz	\$387.38

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