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Autosomal beta-cell toxigene strain - Mouse Strain RES209**Mouse Information**

Common Name:	Autosomal beta-cell toxigene strain
MGI Official Name:	NOD.Cg-Prkdc ^{scid} Il2rg ^{tm1Wjl} Tg(Ins2-HBEGF) ^{6832Ugfm} /Sz
Description:	NOD-Prkdc ^{scid} IL2rg ^{tm1Wjl} Tg(Ins2-HBEGF) ^{6832Ugfm} mice are deficient in mature lymphocytes and NK cells, survive beyond 16 months of age, and even after sublethal irradiation resist lymphoma development. They can be induced to become hypoglycemic when Diphtheria toxin is used. 100% of beta cells will be depleted upon administration of diphtheria toxin.
Categories:	HUMANE

Genetic Alterations**1) BAC or Transgene Insertion**

Type of Vector	Plasmid
Promoter	Rat insulin II (RIP)
Expressed Gene	Diphtheria toxin receptor (DTR)
Description of Transgene	The RIP-DTR transgene was made by Pedro Herrera by subcloning the human HB-EGF cDNA into the EcoRI/Sall sites of a plasmid containing a 0.7Kb-long fragment of the rat insulin II promoter, and a 1.6 kb-long sequence containing an intron and the polyA signal of the rabbit beta globin gene.

Vector Genbank File	<i>Not provided</i>
Citations	<i>Not provided</i>


2) Targeted Mutagenesis

Type of Allele	Global Null				
Targeted Gene	interleukin 2 receptor, gamma chain (Il2rg - NCBI GeneID:16186)				
Targeted Allele	<i>Not provided</i> (Il2rg ^{tm1Wjl} - MGI:96551)				
Description of Targeting Vector	<i>Not provided</i>				
Targeting Vector Genbank File	<i>Not provided</i>				
Citations	<table border="1"> <thead> <tr> <th>PubMedID</th> <th>Citation</th> </tr> </thead> <tbody> <tr> <td>18096436</td> <td>A new Hu-PBL model for the study of human islet alloreactivity based on NOD-scid mice bearing a targeted mutation in the IL-2 receptor gamma chain gene. (2008) <i>Clin Immunol</i> 126: 303-14 (Added 2011-03-02 10:32:43.247619)</td> </tr> </tbody> </table>	PubMedID	Citation	18096436	A new Hu-PBL model for the study of human islet alloreactivity based on NOD-scid mice bearing a targeted mutation in the IL-2 receptor gamma chain gene. (2008) <i>Clin Immunol</i> 126 : 303-14 (Added 2011-03-02 10:32:43.247619)
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Strain Information

Strain Type:	Congenetic Strain
Chimera/Founder Genetic Background:	Not provided
Current Genetic Background:	Not provided (date recorded: Not provided)
Strain Description:	Not provided

Associated Images**Access Status**

 This resource is publicly viewable.

Request this Resource

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Primary contributor: [Shultz Lab](#)

Co-contributed by:

- [Greiner Lab](#)
- [Herrera Lab](#)

Resource Tags

Autosomal beta-cell toxigene strain, mouse, mouse strain, NOD, SCID

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Resource History & Actions

Approved on Dec 21, 2007
Last modified on Dec 21, 2007

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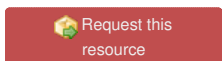
No matching resources

Data courtesy of [dkCOIN](#). Only public resources are displayed.

No associated images have been supplied

Repositories

Herrera Lab



Stock #: *Not provided*
Availability Notes: *Not provided*

Contact Information

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Associated Publications

No publications associated

Comments

There are no comments for this entry.

