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**X-linked toxigene strain - Mouse Strain RES210****Mouse Information**

<b>Common Name:</b>	X-linked toxigene strain
<b>MGI Official Name:</b>	NOD.Cg-Prkdc <sup>scid</sup> Il2rg <sup>tm1Wjl</sup> Hprt <sup>tm3</sup> (Ins2-HBEGF)Ugfm/Sz
<b>Description:</b>	NOD-scid IL2rg <sup>tm1Wjl</sup> Hprt <sup>tm3</sup> (Ins2-HBEGF)Ugfm 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. 50% of beta cells will be depleted after diphtheria toxin administration.
<b>Categories:</b>	HUMANE

**Genetic Alterations**

<b>1) Targeted Mutagenesis</b>					
<b>Type of Allele</b>	Global Null				
<b>Targeted Gene</b>	interleukin 2 receptor, gamma chain ( <a href="#">Il2rg - NCBI GeneID:16186</a> )				
<b>Targeted Allele</b>	<i>Not provided</i> ( <a href="#">Il2rg<sup>tm1Wjl</sup> - MGI:1857455</a> )				
<b>Description of Targeting Vector</b>	<i>Not provided</i>				
<b>Targeting Vector Genbank File</b>	<i>Not provided</i>				
<b>Citations</b>	<table border="1"> <thead> <tr> <th>PubMedID</th> <th>Citation</th> </tr> </thead> <tbody> <tr> <td><a href="#">18096436</a></td> <td><a href="#">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.</a> (2008) <i>Clin Immunol</i> <b>126</b>: 303-14 (Added 2011-03-02 10:32:43.247619)</td> </tr> </tbody> </table>	PubMedID	Citation	<a href="#">18096436</a>	<a href="#">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.</a> (2008) <i>Clin Immunol</i> <b>126</b> : 303-14 (Added 2011-03-02 10:32:43.247619)
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**2) BAC or Transgene Insertion**

<b>Type of Vector</b>	Plasmid
<b>Promoter</b>	Rat insulin II (RIP)
<b>Expressed Gene</b>	Diphtheria toxin receptor (DTR)
<b>Description of Transgene</b>	The RIP-DTR transgene was made by Pedro Herrera by subcloning the human HB-EGF cDNA into the EcoRI/SalI 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.
<b>Vector Genbank File</b>	<i>Not provided</i>
<b>Citations</b>	<i>Not provided</i>


**Strain Information**

<b>Strain Type:</b>	Congenic Strain
<b>Chimera/Founder Genetic Background:</b>	Not provided
<b>Current Genetic Background:</b>	Not provided (date recorded: Not provided)
<b>Strain Description:</b>	Not provided


**Associated Images**

*No associated images have been supplied*

**Access Status**

 This resource is publicly viewable.

**Request this Resource**

 Request from a repository


Primary contributor: [Shultz Lab](#)

Co-contributed by:

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

**Resource Tags**


mouse, mouse strain, X-linked toxigene strain

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 Read more about tags

**Resource History & Actions**

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

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**Related resources****BCBC**

*No matching resources*


**Other Consortia**

*No matching resources*

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

## Repositories

Herrera Lab

 Request this resource

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

## Contact Information

Preferred Contact


<b>Name</b>	Leonard Shultz
<b>Institution</b>	The Jackson Laboratory
<b>Phone</b>	207-288-6405
<b>Email</b>	<a href="mailto:lenny.shultz@jax.org">lenny.shultz@jax.org</a>

## Associated Publications

*No publications associated*

## Comments

*There are no comments for this entry.*

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