

My Account

Login
Create Account

Resources

View All (813)

Adenoviruses (137)

Antibodies (175)

Bioimages (67)

Genomics Studies (145)

mESC Lines (68)

Mouse Strains (120)

Miscellaneous (46)

Protocols (55)

Research Data (4)

Resource Tags (389)

Visualization (9)

Research & Cores

Core Facilities (5)

Research Highlights (5)

Research Networks

Research Objectives

Information

About the BCBC

BCBC Events

Branding & Logos

Career Opportunities

Health

NIH hESC Registry

Policies & Guidelines

Member Publications

Research Programs

Research Investigators

Member Directory

Tutorials

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

Common Name:	X-linked toxigene strain
MGI Official Name:	NOD.Cg-Prkdc ^{scid} Il2rg ^{tm1Wjl} Hprt ^{tm3} (Ins2-HBEGF)Ugfm/Sz
Description:	NOD-scid IL2rg ^{tm1Wjl} Hprt ^{tm3} (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.
Categories:	HUMANE

Genetic Alterations

1) 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:1857455)				
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)
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)				

2) 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/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.
Vector Genbank File	<i>Not provided</i>
Citations	<i>Not provided</i>


Strain Information

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

 Login to edit tags

 Read more about tags

Resource History & Actions

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

 Login to edit or request an edit

Related resources**BCBC**

No matching resources

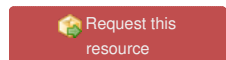
Other Consortia

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

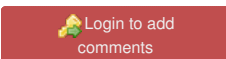
Name	Leonard Shultz
Institution	The Jackson Laboratory
Phone	207-288-6405
Email	lenny.shultz@jax.org

Associated Publications

No publications associated

Comments

There are no comments for this entry.

 Login to add comments

[Home](#) · [Your Account](#) · [News & Events](#) · [Resources](#) · [Policies & Guidelines](#) · [About Us](#) · [FAQ](#) · [Site Map](#)

© 2002-2015 Beta Cell Biology Consortium - All Rights Reserved. [Terms of usage and disclaimer.](#)

