

**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**

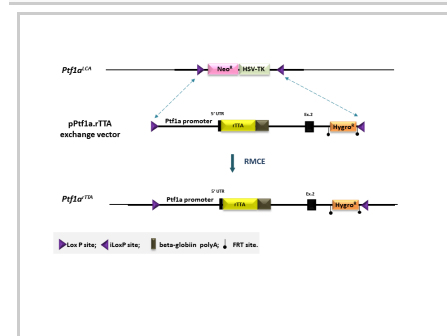
About the BCBC  
BCBC Events  
Branding & Logos  
Career Opportunities  
Health  
NIH hESC Registry  
Policies & Guidelines  
Member Publications  
Research Programs  
Research Investigators  
Member Directory  
Tutorials

**Ptf1a<sup>rtTA</sup> - ES Cell Line RES4015****ESC Line Information**

Cell Line Name:	Ptf1a <sup>rtTA</sup>
Parental Cell Line:	TL-1
Background Strain:	129
Culturing Protocol:	<a href="#">std_mesc_culture3.doc</a>
Description:	These mESCs contain the reverse tetracycline transactivator (rtTA) under control of the Ptf1a regulatory sequences. rtTA is a transcriptional activator, which can inducibly (in the presence of the tetracycline analog doxycycline) activate the genes under Tet-O activator/promoter element. The rtTA sequences were introduced in to Ptf1a[LCA] by Recombinase-Mediated Cassette Exchange using standard methods. These cells were made in order to generate a mouse line that express rtTA under control of the Ptf1a gene locus.

**Genetic Alterations**

<b>1) RMCE Targeted Mutagenesis</b>	
Type of Allele	Cassette Acceptor
Targeted Gene	pancreas specific transcription factor, 1a (Ptf1a - <a href="#">NCBI GeneID:19213</a> )
Targeted Allele	targeted mutation 1 (Ptf1a <sup>tm1(LCA)</sup> - <a href="#">MGI:1328312</a> )
Description of Targeting Vector	<i>Not provided</i>
Targeting Vector Genbank File	<a href="#">Ptf1a.LCA.gb</a>
<b>Recombinase-Mediated Cassette Exchange Stage</b>	
Type of Allele:	Conditional Activating
Exchanged Cassette Gene	reverse tetracycline transactivator (rtTA)
Exchanged Cassette Allele Name	Ptf1a <sup>rtTA</sup>
Description of Exchange Vector	not available
Exchange Vector Genbank File:	<a href="#">ptf1a.rtta.hygro_2.gb</a>
Citations	Not Available

**Associated Images****Image 1**

**Description:**  
*Not provided*


**Reference:**  
*Not provided*

**Repositories**


Magnuson Lab

Out of stock

Stock #: *Not provided***Access Status**

 This resource is publicly viewable.

**Request this Resource**

 Request from a repository

Primary contributor: [Magnuson Lab](#)


Co-contributed by:

- [BCBC Mouse / ES Cell Core](#)

**Resource Tags**

embryonic, es, esc, Ptf1a<sup>rtTA</sup>, stem, TL-1

 Login to edit tags

 Read more about tags

**Resource History & Actions**

Approved on Mar 05, 2011

Last modified on Sep 04, 2013

 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.

**Magnuson Lab**

**Availability Notes:** *Not provided*

---

## Contact Information

---

### Preferred Contact

---

**Name** Mark Magnuson

**Institution** Vanderbilt University

**Phone** 615-322-7006

**Email** [mark.magnuson@vanderbilt.edu](mailto:mark.magnuson@vanderbilt.edu)

---

## 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.](#)

