

**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**

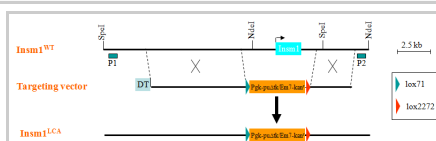
About the BCBC  
BCBC Events  
Branding & Logos  
Career Opportunities  
Health  
NIH hESC Registry  
Policies & Guidelines  
Member Publications  
Research Programs  
Research Investigators  
Member Directory  
Tutorials

**Insm1<sup>LCA</sup> - ES Cell Line RES256****ESC Line Information**

Cell Line Name:	Insm1 <sup>LCA</sup>
Parental Cell Line:	TL-1
Background Strain:	129
Culturing Protocol:	<a href="#">Std_mESC_Culture.doc</a>
Description:	This ES cell line contains a loxed cassette acceptor(LCA)allele that may be utilized for the exchange of DNAs of interest into the Insm1 gene locus by recombinase mediated cassette exchange (RMCE). This LCA uses a lox 66/71 and lox 2272 strategy for RMCE and allows a ~5.2 kb region of this single exon gene to be manipulated. This enables a variety of different types of experiments to be performed using a range of cassette designs.

**Genetic Alterations**

1) Targeted Mutagenesis	
Type of Allele	Cassette Acceptor
Targeted Gene	insulinoma-associated 1 (Insm1 - <a href="#">NCBI GeneID:53626</a> )
Targeted Allele	targeted mutation 1 (Insm1 <sup>tm1(LCA)</sup> - <a href="#">MGI:1859980</a> )
Description of Targeting Vector	This LCA uses a lox 66/71 and lox 2272 strategy for RMCE and allows a ~5.2 kb region of this single exon gene to be manipulated. This enables a variety of different types of experiments to be performed using a range of cassette designs.
Targeting Vector Genbank File	<a href="#">Insm1.GT.qb</a>
Citations	Not Available

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


**Description:**  
Through homologous recombination in ES cells, a 5232 bp fragment containing the proximal promoter, exon and the 3' flanking region of Insm1 was deleted and replaced with a positive-negative selection cassette. The selection cassette consists of a pgk-pu(Delta)tk cassette for positive negative selection in ES cells, and an EM7-kanomycin cassette for positive selection in bacterial cells.

**Reference:**  
*Not provided*

**Repositories**

<b>Magnuson Lab</b>	<b>Stock #:</b> <i>Not provided</i>
<a href="#">Request this resource</a>	<b>Availability Notes:</b> <i>Not provided</i>

**Contact Information****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, Insm1, Insm1<sup>LCA</sup>, LCA, mESC Core, RMCE, stem, TL-1

[Login to edit tags](#)

[Read more about tags](#)

**Resource History & Actions**

Approved on Feb 28, 2008  
Last modified on Mar 23, 2015

[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.

#### Preferred Contact


Name	Mark Magnuson
Institution	Vanderbilt University
Phone	615-322-7006
Email	<a href="mailto:mark.magnuson@vanderbilt.edu">mark.magnuson@vanderbilt.edu</a>

#### 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.](#)

