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Ptf1a^{LCA} - ES Cell Line RES253

ESC Line Information

Cell Line Name:	Ptf1a^{LCA}
Parental Cell Line:	TL-1
Background Strain:	129
Culturing Protocol:	Std_mESC_Culture.doc
Description:	This ES cell line contains a loxed cassette acceptor (LCA) allele in which a 4.1 kb region of this gene (including the proximal promoter and both exons 1 and 2) was replaced with a loxP site, an inverted loxP site, and both positive and negative selectable markers. This enables the use of Recombinase-Mediated Cassette Exchange (RMCE) to easily insert various reporter genes or to make other modifications of the Ptf1a gene locus.

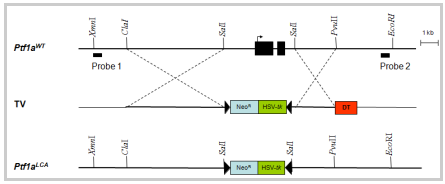
Genetic Alterations

1) Targeted Mutagenesis

Type of Allele	Cassette Acceptor
Targeted Gene	pancreas specific transcription factor, 1a (Ptf1a - NCBI GeneID:19213)
Targeted Allele	targeted mutation 1 (Ptf1a$^{tm1(LCA)}$ - MGI:1328312)
Description of Targeting Vector	*Not provided*
Targeting Vector Genbank File	Ptf1a.LCA.gb
Citations	Not Available

Associated Images

Image 1



Description:
Through homologous recombination in ES cells, a 4.1 kb Sal I-Sal I fragment containing the proximal promoter, exon 1 and 2, and the 3' flanking region of Ptf1a gene was deleted and replaced with a positive-negative selection cassette. The selection cassette consists of pgk-neo, pgk-tk flanked by inverted loxP sites.

Reference:
Not provided

Repositories

Magnuson Lab

Request this resource

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

Contact Information

Preferred Contact

Name	Mark Magnuson
Institution	Vanderbilt University
Phone	615-322-7006

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, LCA, mESC Core, Ptf1a, Ptf1a^{LCA}, RMCE, stem, TL-1

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Resource History & Actions

Approved on Jan 08, 2008
Last modified on Mar 25, 2015

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Related resources

BCBC

No matching resources

Other Consortia

No matching resources

Data courtesy of dkCOIN. Only public resources are displayed.

Email mark.magnuson@vanderbilt.edu

Associated Publications

Publication	Citation
18294628	Burlison JS, Long Q, Fujitani Y, Wright CV, Magnuson MA Pdx-1 and Ptf1a concurrently determine fate specification of pancreatic multipotent progenitor cells. (2008) *Dev Biol* **316**: 74-86 (Added December 20, 2010)

Comments

There are no comments for this entry.

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