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Pdx1^{Cre} - Mouse Strain RES4533**Mouse Information**

Common Name:	Pdx1 ^{Cre}
MGI Official Name:	Pdx1 ^{CreMgn}
Description:	In this mouse strain, the first exon of Pdx1 is replaced with coding sequence for Cre recombinase using RMCE in the Pdx1 ^{LCA} allele. Generation of Pdx-promoter driven Cre expressing mice will enable Cre-LoxP manipulation of pancreatic lineage cells.
Categories:	Cre-lox floxed alleles

Genetic Alterations

1) RMCE Targeted Mutagenesis	
Type of Allele	Cassette Acceptor
Targeted Gene	pancreatic and duodenal homeobox 1 (Pdx1 - NCBI GeneID:18609)
Targeted Allele	targeted mutation 1 (Pdx1 ^{tm1(LCA)} - MGI:102851)
Description of Targeting Vector	An 8.62 kb region of this gene has been replaced by tandemly oriented Lox66 and Lox2272 sites flanking positive (puromycin) and negative (HSV-TK) selectable markers.
Targeting Vector Genbank File	ppdx1tv.gb
Recombinase-Mediated Cassette Exchange Stage	
Type of Allele:	Gene Replacement
Exchanged Cassette Gene	pancreatic and duodenal homeobox 1 (Pdx1 - NCBI GeneID:18609)
Exchanged Cassette Allele Name	Pdx1 ^{Cre}
Description of Exchange Vector	The Pdx1.Cre vector was made on a backbone of a basal Pdx1 exchange vector which contains 8.610 kb DNA sequence from the Pdx1 promoter region removed by gene targeting in the Pdx1LCA allele, part of Pdx1 exon 1, Lox66 and Lox2272 sites and a flrtd (flanked by FRT) pgk-Hygro cassette for positive selection of ES cells after RMCE. Cre sequence was cloned into the first exon of Pdx1 right after the ATG site.
Exchange Vector Genbank File:	Pdx1.Cre.gb
Citations	Not Available

Strain Information


Strain Type:	Mixed
Chimera/Founder Genetic Background:	129S6/SvEvTac
Current Genetic Background:	C57BL/6J (date recorded: 08/09/2012)
Strain Description:	Not provided

Associated Images


Image 1

Description:

Access Status

 This resource is publicly viewable.

Request this Resource


 Request from a repository

Primary contributor: [Hebrok Lab](#)
Co-contributed by:
• [BCBC Mouse / ES Cell Core](#)

Resource Tags


mouse, mouse strain, Pdx1^{Cre}, Pdx1^{CreMgn}

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 Read more about tags

Resource History & Actions

Approved on Oct 09, 2012
Last modified on Nov 28, 2012

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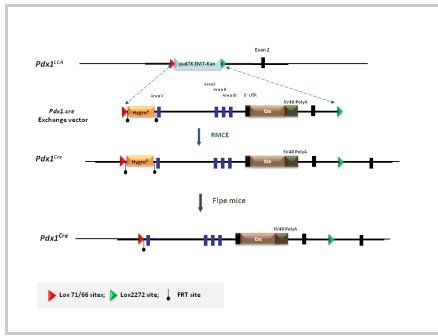
Related resources**BCBC**

No matching resources

Other Consortia

No matching resources

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

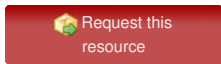


The Pdx1.cre vector was exchanged into Pdx1^{LCA} mESCs utilizing Recombinase Mediated Cassette Exchange (RMCE) and mice were generated from the correctly exchanged mESCs. These animals were subsequently mated with Flpe mice in order to remove the Hygro^R cassette.

Reference:
Not provided

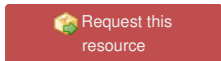
Repositories

Hebrok Lab



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

Magnuson Lab



Stock #: OV BSID 0099
Availability Notes: Sperm cryo

Contact Information

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Associated Publications

No publications associated

Comments

There are no comments for this entry.

