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Ptf1a^{LCA}-CreER - Mouse Strain RES244

Mouse Information

Common Name:	Ptf1a^{LCA}-CreER
MGI Official Name:	Ptf1a$^{tm2(cre/ESR1)Cvw}$
Description:	CreER knock-in into Ptf1a locus replacing part of the exon1 at the translation initiator ATG position using RMCE method.
Categories:	Cre-lox inducible

Genetic Alterations

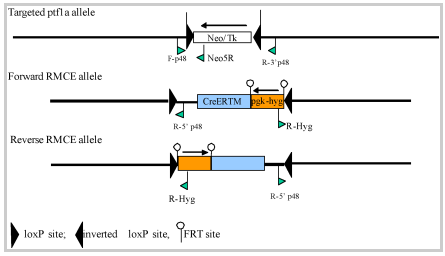
1) RMCE Targeted Mutagenesis	
Type of Allele	Cassette Acceptor
Targeted Gene	pancreas specific transcription factor, 1a (Ptf1a - NCBI GeneID:19213)
Targeted Allele	targeted mutation 1 (Ptf1a$^{tm1(LCA)}$ - MGI:1328312)
Description of Targeting Vector	Not Available
Targeting Vector Genbank File	Ptf1a.LCA.gb
Recombinase-Mediated Cassette Exchange Stage	
Type of Allele:	*Not available*
Exchanged Cassette Gene	Not provided. (MGI:19213)
Exchanged Cassette Allele Name	Ptf1a$^{tm2(cre/ESR1)}$
Description of Exchange Vector	Ptf1a{LCA}-CreER
Exchange Vector Genbank File:	pPtf1a.Cre_ERTM.gb
Citations	Not Available

Strain Information

Strain Type:	Mixed
Chimera/Founder Genetic Background:	129S6/SvEvTac
Current Genetic Background:	129S6/SvEvTac (date recorded: 04/03/2015)
Strain Description:	Not provided

Associated Images

Image 1



Description:
Ptf1a is expressed in the pancreatic acinar cell lineage and also in a poorly-defined (putative multipotent) pancreatic progenitor population that gives rise to endocrine, acinar and duct population. By expressing tamoxifen-inducible Cre recombinase from the endogenous Ptf1a locus, lineage-tracing experiments can determine at what developmental stage Ptf1a expression becomes restricted to the acinar cell lineage with a

Access Status

This resource is publicly viewable.

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Request from a **repository**

Primary contributor: **Wright Lab**
Co-contributed by:
- BCBC Mouse / ES Cell Core

Resource Tags

Cre, ESR1, mESC Core, mouse, mouse strain, Ptf1a, Ptf1a^{LCA}-CreER, Ptf1a$^{tm2(cre/ESR1)Cvw}$, RMCE

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Resource History & Actions

Approved on Aug 14, 2008
Last modified on Apr 03, 2015

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Data courtesy of dkCOIN. Only public resources are displayed.

better understanding of the spatiotemporal distribution and developmental potential of the Ptf1a-expressing cells. These mice will also be a useful tool for selectively targeting recombinase activity to the pancreatic acinar cell lineage or early pancreatic progenitors for the conditional deletion or ectopic activation of genes of interest.

Reference:
Not provided

Repositories

Wright Lab	
Request this resource	**Stock #:** *Not provided* **Availability Notes:** *Not provided*

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Associated Publications

No publications associated

Comments

There are no comments for this entry.

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