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Ptf1a^{YFP} - ES Cell Line RES254**ESC Line Information**

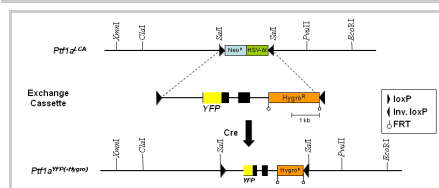
Cell Line Name:	Ptf1a ^{YFP}
Parental Cell Line:	TL-1 / ptf1a{LCA}
Background Strain:	129
Culturing Protocol:	Std_mESC_Culture.doc
Description:	This ES cell line contains YFP inserted into a Ptf1a ^{LCA} allele by recombinase mediated cassette exchange. These cells may be useful for identifying pancreatic progenitor cells in cultures that have been stimulated to differentiate towards endodermal and pancreatic fates.

Genetic Alterations**1) RMCE Targeted Mutagenesis**

Type of Allele	Gene Replacement
Targeted Gene	pancreas specific transcription factor, 1a (Ptf1a - NCBI GeneID:19213)
Targeted Allele	targeted mutation 1.1 (Ptf1a ^{tm1.1(YFP)} - MGI:3691484)
Description of Targeting Vector	Not available

Targeting Vector Genbank File	Ptf1a.LCA.gb
Recombinase-Mediated Cassette Exchange Stage	
Type of Allele:	<i>Not available</i>
Exchanged Cassette Gene	Not provided. (MGI:19213)
Exchanged Cassette Allele Name	Ptf1a ^{LCA}
Description of Exchange Vector	<i>Not provided</i>
Exchange Vector Genbank File:	Ptf1a_LFP_KO_hygro.gb

Citations	PubMedID	Citation
	18294628	Pdx-1 and Ptf1a concurrently determine fate specification of pancreatic multipotent progenitor cells. (2008) <i>Dev Biol</i> 316 : 74-86 (Added 2008-04-30 08:35:51)


Associated Images**Image 1****Description:**

Through the use of an RMCE strategy coding sequences for an enhanced yellow fluorescent protein (citrene) were inserted into exon 1 of the Ptf1a locus. Cassette exchange in the forward orientation was confirmed by DNA PCR analysis.


Reference:

18294628

Repositories**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}, ptf1aYFP, Ptf1a^{YFP}, stem, YFP

 Login to edit tags

 Read more about tags

Resource History & Actions

Approved on Feb 26, 2008

Last modified on Apr 20, 2015

 Login to edit or request an edit

Related resources**BCBC**

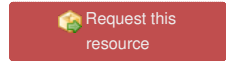
No matching resources

Other Consortia

No matching resources

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

Magnuson Lab

 Request this resource

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

Contact Information

Preferred Contact

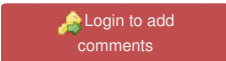
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Associated Publications

No publications associated

Comments

There are no comments for this entry.

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