

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

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

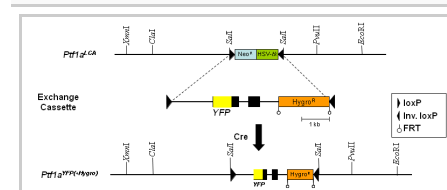
Cell Line Name:	Ptf1a ^{YFP}
Parental Cell Line:	TL-1 / ptf1a(LCA)
Background Strain:	129
Culturing Protocol:	Std_mESC_Culture.doc
Description:	This ES cell line contains YFP inserted into a Ptf1a ^{LCA} allele by recombinase mediated cassette exchange. These cells may be useful for identifying pancreatic 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

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Resource History & Actions

Approved on Feb 26, 2008
Last modified on Apr 20, 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.

Magnuson Lab

 Request this resource

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

Contact Information

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Associated Publications

No publications associated

Comments

There are no comments for this entry.

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