ESC Line Information

Cell Line Name: Pdx1\(^{\text{CFP}}\)
Parental Cell Line: TL-1 / Pdx1\(^{\text{LCA}}\) clone 2F11
Background Strain: 129
Culturing Protocol: Std_mESC_Culture.doc
Description: This ES cell line contains cyan fluorescent protein (CFP, Cerulean variant) inserted into a Pdx1\(^{\text{LCA}}\) 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: Cassette Acceptor
Targeted Gene: pancreatic and duodenal homeobox 1 (Pdx1 - NCBI GeneID:18609)
Targeted Allele: targeted mutation 1 (Pdx1\(^{\text{tm1(LCA)}}\) - 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Description of Targeting Vector: An 8.62 kb region of this gene has been replaced by tandemly oriented Lox66 and Lox2272 sites flanking positive (puromycin) and negative (HSV-TK) selectable markers.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: CFP (CFP)
Exchanged Cassette Allele Name: Pdx1\(^{\text{CFP}}\)
Description of Exchange Vector: not available
Exchange Vector Genbank File: Pdx1.CFP.Bpa_.gb
Citations: Not Available

Associated Images

Image 1

Description: A cyan fluorescent protein (CFP, Cerulean) reporter gene, 3 copies of an SV40 nuclear localization sequence (NLS) and a rabbit beta globin splice and polyadenylation sequence was introduced downstream of the endogenous Pdx1 start codon.

Reference: Not provided

Repositories

Access Status

This resource is publicly viewable.

Request this Resource

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

Resource Tags
cerulean, CFP, embryonic, endoderm, es, esc, LCA, pancreatic, Pdx1\(^{\text{CFP}}\), stem, TL1 - Pdx1\(^{\text{LCA}}\) clone 2F11

Resource History & Actions

Approved on Mar 20, 2009
Last modified on May 13, 2014

Related resources

BCBC
No matching resources

Other Consortia
No matching resources

Data courtesy of dkCOIN. Only public resources are displayed.
<table>
<thead>
<tr>
<th>Magnuson Lab</th>
<th>Stock #: VUMC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Out of stock</td>
<td>Availability Notes: Not provided</td>
</tr>
</tbody>
</table>

### Contact Information

<table>
<thead>
<tr>
<th>Preferred Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
</tr>
<tr>
<td><strong>Institution</strong></td>
</tr>
<tr>
<td><strong>Phone</strong></td>
</tr>
<tr>
<td><strong>Email</strong></td>
</tr>
</tbody>
</table>

### Associated Publications

No publications associated

### Comments

There are no comments for this entry.

[Login to add comments]