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**Pdx1<sup>CFP</sup> - Mouse Strain RES1301****Mouse Information**

<b>Common Name:</b>	Pdx1 <sup>CFP</sup>
<b>MGI Official Name:</b>	Pdx1 <sup>(CFP)Mgn</sup>
<b>Description:</b>	This mouse contains a cyan fluorescent protein (CFP, Cerulean), tagged with 3 copies of an SV40 NLS knocked into the endogenous Pdx1 gene. This mouse strain enables pre-pancreatic endoderm to be easily identified in the developing mouse embryo and the isolation of Pdx1(+) cells by FACS.
<b>Categories:</b>	Fluorescent Probes

**Genetic Alterations**

1) RMCE Targeted Mutagenesis	
<b>Type of Allele</b>	Cassette Acceptor
<b>Targeted Gene</b>	pancreatic and duodenal homeobox 1 (Pdx1 - <a href="#">NCBI GeneID:18609</a> )
<b>Targeted Allele</b>	targeted mutation 1 (Pdx1 <sup>tm1(LCA)</sup> - <a href="#">MGI:102851</a> )
<b>Description of Targeting Vector</b>	An 8.62 kb region of this gene has been replaced by tandemly oriented Lox66 and Lox2272 sites flanking positive (puromycin) and negative (HSV-TK) selectable markers.
<b>Targeting Vector Genbank File</b>	<a href="#">ppdx1tv.gb</a>
Recombinase-Mediated Cassette Exchange Stage	
<b>Type of Allele:</b>	<i>Not available</i>
<b>Exchanged Cassette Gene</b>	Not provided. ( <a href="#">MGI:18609</a> )
<b>Exchanged Cassette Allele Name</b>	Pdx1 <sup>tm1.2(CFP)</sup>
<b>Description of Exchange Vector</b>	Pdx1{CFP}
<b>Exchange Vector Genbank File:</b>	<a href="#">Pdx1.CFP.BpA_.gb</a>
<b>Citations</b>	Not Available


**Strain Information**

<b>Strain Type:</b>	Mixed
<b>Chimera/Founder Genetic Background:</b>	129S6/SvEvTac
<b>Current Genetic Background:</b>	Not provided (date recorded: Not provided)
<b>Strain Description:</b>	Mice containing the Pdx1 <sup>CFP</sup> allele were bred to FlpE-expressing transgenic mice to remove the hygRO selection cassette. Animals with this allele are currently being maintained in a CD1 (outbred) genetic background.


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

This figure shows the design of the cassette that was generated for insertion of a cyan fluorescent protein (CFP, Cerulean) reporter gene

**Access Status**

 This resource is publicly viewable.

**Request this Resource**

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Primary contributor: [Magnuson Lab](#)

Co-contributed by:

- [BCBC Mouse / ES Cell Core](#)

**Resource Tags**

mouse, mouse strain, Pdx1<sup>CFP</sup>, Pdx1<sup>(CFP)Mgn</sup>

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**Resource History & Actions**

Approved on Mar 20, 2009

Last modified on Oct 03, 2012

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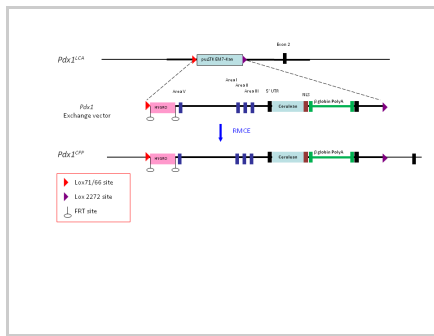
**Related resources****BCBC**

*No matching resources*

**Other Consortia**

*No matching resources*

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



into the Pdx1<sup>LCA</sup>. The reporter allele consists of CFP (Cerulean), 3 copies of the SV40 nuclear localization sequence (NLS) and a rabbit beta globin splice and polyadenylation sequence downstream of the endogenous Pdx1 start codon.

**Reference:**  
Not provided

## Repositories

### MMRRC

 Request via [www.mmrc.org](http://www.mmrc.org) website

**Stock #:** 036462-UNC  
**Availability Notes:** Available

### Magnuson Lab

 Request this resource

**Stock #:** VUMC-LE (embryos), Sperm cryo vial KX (BSID 0069) Straw KX, BSID 0069, 49 straws, frozen 8/9/10; Embryo Cryo Straw LE, BSID 0074, 18 straws, frozen 6/16/10  
**Availability Notes:** Sperm Cryo vial KX (BSID 0069)

## Contact Information

### Preferred Contact


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## Associated Publications

Publication	Citation
<a href="#">21913313</a>	Potter LA, Choi E, Hipkens SB, Wright CV, Magnuson MA <u>recombinase-mediated cassette exchange-derived cyan fluorescent protein reporter allele for Pdx1</u> . (2012) <i>Genesis</i> 50: 384-92 (Added September 24, 2012)

## Comments

There are no comments for this entry.

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