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ROSA26^{Nkx2.2.CFP} - Mouse Strain RES3042**Mouse Information**

Common Name:	ROSA26 ^{Nkx2.2.CFP}
MGI Official Name:	ROSA26 ^{(Nkx2.2.CFP)^{Sus}}
Description:	In this strain both CFP and myc-tagged Nkx2.2 were inserted into a ROSA26 LCA allele under control of a bidirectional tetO/CMV promoter element. The mouse line will allow us to explore the contribution of Nkx2.2 to progenitor cell population competency by allowing for the manipulation of Nkx2.2 gene expression within the developing pancreas.
Categories:	Fluorescent Probes Tet

Genetic Alterations

1) RMCE Targeted Mutagenesis	
Type of Allele	Cassette Acceptor
Targeted Gene	gene trap ROSA 26, Philippe Soriano (Gt(ROSA)26Sor - NCBI GeneID:14910)
Targeted Allele	targeted mutation 1 (Rosa26 ^{tm1(LCA)} - MGI:104735)
Description of Targeting Vector	Not available
Targeting Vector Genbank File	pRosa26.LCA.gb
Recombinase-Mediated Cassette Exchange Stage	
Type of Allele:	Conditional Activating
Exchanged Cassette Gene	NK2 transcription factor related, locus 2 (Nkx2.2 - NCBI GeneID:18088)
Exchanged Cassette Allele Name	Rosa26 ^{Nkx2.2.CFP}
Description of Exchange Vector	The vector contains a bidirectional TetO reporter cassette that drives the expression of CFP and myc-tagged Nkx2.2 flanked by ROSA26 targeting sequences for RMCE targeting into the ROSA locus.
Exchange Vector Genbank File:	phygro66.2272.teto.nkx2.2.gb
Citations	Not Available

Strain Information

Strain Type:	Mixed
Chimera/Founder Genetic Background:	129S6/SvEvTac
Current Genetic Background:	C57BL/6 (date recorded: 04/23/2015)
Strain Description:	Not provided

Associated Images


No associated images have been supplied

Repositories


Sussel Lab

Stock #: Not provided

Access Status

 This resource is publicly viewable.

Request this Resource


 Request from a repository

Primary contributor: [Sussel Lab](#)
Co-contributed by:
• [BCBC Mouse / ES Cell Core](#)

Resource Tags

mouse, mouse strain, ROSA26^{Nkx2.2.CFP}

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Resource History & Actions

Approved on Mar 09, 2010
Last modified on Dec 21, 2011

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Related resources**BCBC**

No matching resources

Other Consortia

No matching resources

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

 Request this resource

Availability Notes: *Not provided*

Contact Information

Preferred Contact


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Associated Publications

No publications associated

Comments

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