

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

Nkx2.2^{Cherry} - ES Cell Line RES4093**ESC Line Information**

Cell Line Name:	Nkx2.2 ^{Cherry}
Parental Cell Line:	TL-1
Background Strain:	129
Culturing Protocol:	<i>Not provided.</i>
Description:	In this ES cell, 1.956 kb of the native Nkx2.2 gene, containing a portion of exon 1 (all but the first 214 bp) and all of exon 2, was replaced by the mCherry cassette in frame to the Nkx2.2 ATG. This allows for sites of Nkx2.2 gene expression in the mouse to be identified using direct immunofluorescence and FACS purification of Nkx2.2 expressing cells.

Genetic Alterations

1) RMCE Targeted Mutagenesis	
Type of Allele	Cassette Acceptor
Targeted Gene	NK2 transcription factor related, locus 2 (Nkx2-2 - NCBI GeneID:18088)
Targeted Allele	targeted mutation 1 (Nkx2.2 ^{tm1(LCA)})
Description of Targeting Vector	not available
Targeting Vector Genbank File	pNkx2.2.TV.gb
Recombinase-Mediated Cassette Exchange Stage	
Type of Allele:	Gene Replacement
Exchanged Cassette Gene	Not provided.
Exchanged Cassette Allele Name	Cherry
Description of Exchange Vector	The Nkx2.2.Cherry.HygroD vector was made on a backbone of a basal exchange vector which contains a 5.115 kb sequence from the Nkx2.2 locus, Lox71/Lox2272 sites, and a flrtd (flanked by FRT) Pgk-Hygro cassette that is used for positive selection of ES cells after RMCE. 1.956 kb of the native Nkx2.2 gene sequence, containing a portion of exon 1 (all but the first 214 bp) and all of exon 2, was replaced with a mCherry cassette immediately following the Nkx2.2 ATG translation initiation site.
Exchange Vector Genbank File:	Not Available
Citations	Not Available


Associated Images

Image 1


Description:
Not provided

Reference:
Not provided

Access Status

 This resource is publicly viewable.

Request this Resource


 Request from a repository


Primary contributor: [Sussex Lab](#)
Co-contributed by:

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

Resource Tags


embryonic, es, esc, Nkx2.2^{Cherry}, stem, TL-1

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Resource History & Actions

Approved on Dec 21, 2011
Last modified on Apr 22, 2015

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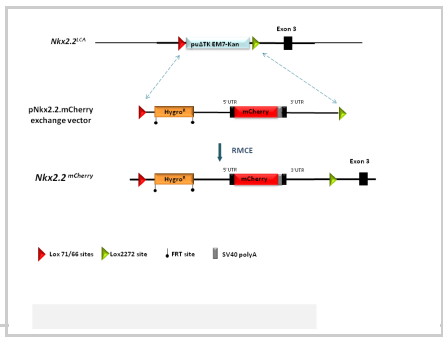
Related resources**BCBC**

No matching resources

Other Consortia


No matching resources

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



Repositories

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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