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Nkx2.2^{3XHA}.Nkx2.2 - ES Cell Line RES4080**ESC Line Information**

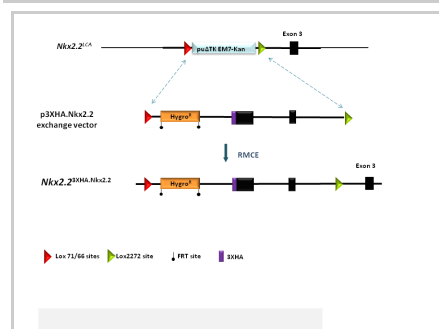
Cell Line Name:	Nkx2.2 ^{3XHA} .Nkx2.2
Parental Cell Line:	TL-1
Background Strain:	129
Culturing Protocol:	<i>Not provided.</i>
Description:	In this cell line RMCE in the Nkx2.2.LCA allele was used to introduce a triple HA tag in frame at the N-terminus of the transcription factor Nkx2.2. This allows for efficient immunoprecipitation of HA-tagged Nkx2.2 protein from mouse tissues to perform ChIP and protein-protein interaction studies.

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. (triple HA tag)
Exchanged Cassette Allele Name	Nkx2.2 ^{3XHA} .Nkx2.2
Description of Exchange Vector	The p3XHA.Nkx2.2.HygroD vector was made on a base of Nkx2.2 basal exchange vector which contains the 5.115 kb DNA sequence from Nkx2.2 promoter region removed by gene targeting in Nkx2.2.LCA allele , Lox66 and Lox2272 sites, and a flrtd (flanked by FRT) Pkg-Hygro cassette for positive selection of ES cells after RMCE. The 3x-HA-tag was cloned in frame at the N-terminus of Nkx2.2 coding sequence.
Exchange Vector Genbank File:	p3XHA.Nkx2.2.HygroD.gb
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: [Susael Lab](#)
Co-contributed by:

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

Resource Tags


embryonic, es, esc, Nkx2.2^{3XHA}.Nkx2.2, stem, TL-1

 Login to edit tags

 Read more about tags

Resource History & Actions

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

 Login to edit or request an edit

Related resources**BCBC**

No matching resources

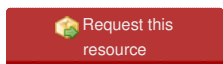
Other Consortia

No matching resources

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

Repositories

Magnuson Lab



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

Contact Information

Preferred Contact

Name	Lori SusseI
Institution	Columbia University
Phone	212-851-5115
Email	lgs2@columbia.edu

Associated Publications

No publications associated

Comments

There are no comments for this entry.

