

**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<sup>3XHA</sup>.Nkx2.2 - ES Cell Line RES4080****ESC Line Information**

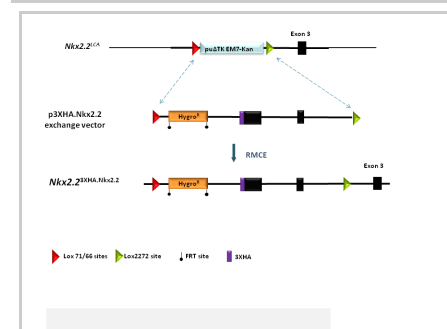
<b>Cell Line Name:</b>	Nkx2.2 <sup>3XHA</sup> .Nkx2.2
<b>Parental Cell Line:</b>	TL-1
<b>Background Strain:</b>	129
<b>Culturing Protocol:</b>	<i>Not provided.</i>
<b>Description:</b>	In this cell line RMCE in the Nkx2.2.LCA allele was used to introduce a triple HA tag in frame at the N-terminus of the 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	
<b>Type of Allele</b>	Cassette Acceptor
<b>Targeted Gene</b>	NK2 transcription factor related, locus 2 (Nkx2-2 - <a href="#">NCBI GeneID:18088</a> )
<b>Targeted Allele</b>	targeted mutation 1 (Nkx2.2 <sup>tm1(LCA)</sup> )
<b>Description of Targeting Vector</b>	not available
<b>Targeting Vector Genbank File</b>	<a href="#">pNkx2.2.TV.gb</a>
Recombinase-Mediated Cassette Exchange Stage	
<b>Type of Allele:</b>	Gene Replacement
<b>Exchanged Cassette Gene</b>	Not provided. (triple HA tag)
<b>Exchanged Cassette Allele Name</b>	Nkx2.2 <sup>3XHA</sup> .Nkx2.2
<b>Description of Exchange Vector</b>	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 <a href="#">Nkx2.2.LCA allele</a> , 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.
<b>Exchange Vector Genbank File:</b>	<a href="#">p3XHA.Nkx2.2.HygroD.gb</a>
<b>Citations</b>	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<sup>3XHA</sup>.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**

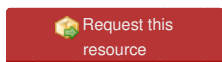
*No matching resources*

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 Sussef
Institution	Columbia University
Phone	212-851-5115
Email	<a href="mailto:lgs2@columbia.edu">lgs2@columbia.edu</a>

---

## Associated Publications

*No publications associated*

---

## Comments

*There are no comments for this entry.*

