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Nkx2.2^(3XHA.Nkx2.2)Suss - Mouse Strain RES4086**Mouse Information**

Common Name:	Nkx2.2 ^(3XHA.Nkx2.2) Suss
MGI Official Name:	Nkx2.2 ^(3XHA.Nkx2.2) Suss
Description:	In this mouse 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.
Categories:	None specified.

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	NK2 transcription factor related, locus 2 (3XHA-Nkx2.2 - NCBI GeneID:18088)
Exchanged Cassette Allele Name	Nkx2.2 ^{3XHA-Nkx2.2}
Description of Exchange Vector	The 3xHA.Nkx2.2. 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) Pgk-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


Strain Information

Strain Type:	Mixed
Chimera/Founder Genetic Background:	129S6/SvEvTac
Current Genetic Background:	C57BL/6 (date recorded: 03/02/2010)
Strain Description:	Not provided


Associated Images

Image 1	Description: map after hygro deletion
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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](#)

Resource Tags

mouse, mouse strain,
Nkx2.2^(3XHA.Nkx2.2)Suss

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Resource History & Actions

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

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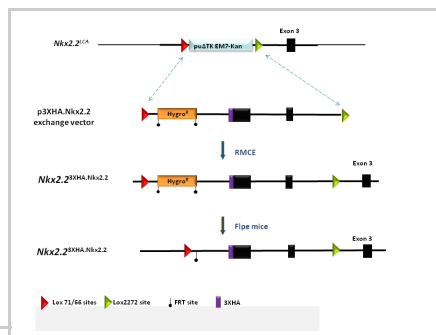
Related resources**BCBC**

No matching resources

Other Consortia

No matching resources

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



Reference:
Not provided

Repositories

Sussel Lab



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

Contact Information

Preferred Contact

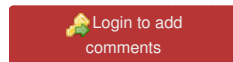
Name	Lori Sussel
Institution	Columbia University
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Associated Publications

No publications associated

Comments

There are no comments for this entry.



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