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**Nkx2.2 TN mutation - Mouse Strain RES231****Mouse Information**

<b>Common Name:</b>	Nkx2.2 TN mutation
<b>MGI Official Name:</b>	Nkx2-2 <sup>Im3Suss</sup>
<b>Description:</b>	These mice contain mutations in the central core of the Nkx2.2 TN domain (putative groucho-interaction domain).
<b>Categories:</b>	None specified.

**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>Im1(LCA)</sup> )
<b>Description of Targeting Vector</b>	Through homologous recombination in ES cells, a 5.115 kb region of the Nkx2.2 gene is replaced by a floxed tk-neo cassette, a puromycin-thymidine kinase fusion gene driven by the mouse phosphoglycerol kinase promoter (pUTK) and a neomycin resistant gene driven by the bacterial EM7 promoter (EM7neo) flanked by minimal (34 bp) tandemly oriented lox71 and lox2272 sites (Cre-recombinase recognition sequences).
<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>	NK2 transcription factor related, locus 2 (Nkx2-2 - <a href="#">NCBI GeneID:18088</a> )
<b>Exchanged Cassette Allele Name</b>	Nkx2.2(TNmut)
<b>Description of Exchange Vector</b>	Nkx2.2 TN mutation
<b>Exchange Vector Genbank File:</b>	<a href="#">Nkx2.2BAC.doc</a>
<b>Citations</b>	Not Available

**Strain Information**


<b>Strain Type:</b>	Mixed
<b>Chimera/Founder Genetic Background:</b>	129S6/SvEvTac
<b>Current Genetic Background:</b>	Black Swiss (date recorded: 03/27/2015)
<b>Strain Description:</b>	The mutant mice were generated from 129 ES cells. They are currently in the F2 generation into the outbred Swiss Black strain.

**Associated Images**


Image 1

**Description:**  
The conserved Nkx2.2 TN domain, its homology to other

**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**


mESC Core, mouse, mouse strain, Nkx2-2<sup>Im3Suss</sup>, Nkx2.2 TN mutation, RMCE

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**Resource History & Actions**

Approved on May 05, 2008  
Last modified on Mar 24, 2015

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No matching resources

**Other Consortia**

No matching resources

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

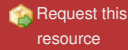
M.mus Nkx2.2	TGFSVKDILDLP
M.mus Nkx2.1	TPFSVSDILSPL
M.mus Nkx2.3	TPFSVKDILNLE
M.mus Nkx2.4	TPFSVSDILSPI
M.mus Nkx2.5	TPFSVKDILNLE
D.mel en	LAFSISNILSDR
B.rer eng-2 and 3	TNFFIDNILRPD
M.mus En-1	TNFFIDNILSPD
Nkx2.2 <sup>TN<sup>MUT</sup></sup>	TGFAAAAIVDLP

conserved groucho-interaction domains, and the alanine substitutions we have introduced into the TN mutation strain.

**Reference:**  
*Not provided*

## Repositories

### Sussel Lab



**Stock #:** *Not provided*

**Availability Notes:** *Not provided*

## Contact Information

### Preferred Contact

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### Primary Lab Contact

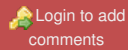
<b>Name</b>	<i>Not provided</i>
<b>Institution</b>	<i>Not provided</i>
<b>Phone</b>	<i>Not provided</i>
<b>Email</b>	<i>Not provided</i>

## Associated Publications

*No publications associated*

## Comments

*There are no comments for this entry.*



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