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

Common Name:	Nkx2.2 TN mutation
MGI Official Name:	Nkx2-2 ^{tm3Suss}
Description:	These mice contain mutations in the central core of the Nkx2.2 TN domain (putative groucho-interaction domain).
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	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).
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 (Nkx2-2 - NCBI GeneID:18088)
Exchanged Cassette Allele Name	Nkx2.2(TNmut)
Description of Exchange Vector	Nkx2.2 TN mutation
Exchange Vector Genbank File:	Nkx2.2BAC.doc
Citations	Not Available

Strain Information


Strain Type:	Mixed
Chimera/Founder Genetic Background:	129S6/SvEvTac
Current Genetic Background:	Black Swiss (date recorded: 03/27/2015)
Strain Description:	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^{tm3Suss}, 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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Related resources**BCBC**

No matching resources

Other Consortia

No matching resources

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

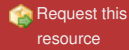
M.mus Nkx2.2	TGFSVKDILDLP
M.mus Nkx2.1	TPFSVSDILSPL
M.mus Nkx2.3	TPFSVKDILNLE
M.mus Nkx2.4	TPFSVSDILSPI
M.mus Nkx2.5	TPFSVKDILNLE
D.mel en	LAFSISNILSDR
B.rer eng-2 and 3	TNFFIDNILRPD
M.mus En-1	TNFFIDNILSPD
Nkx2.2 ^{TN^{MUT}}	TGFAAAAIVDLP

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

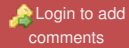
Name	<i>Not provided</i>
Institution	<i>Not provided</i>
Phone	<i>Not provided</i>
Email	<i>Not provided</i>

Associated Publications

No publications associated

Comments

There are no comments for this entry.



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