Nkx2.2\textsuperscript{(Cre.EGFP)Suss} - Mouse Strain RES4150

**Mouse Information**

- **Common Name:** Nkx2.2\textsuperscript{(Cre.EGFP)Suss}
- **MGI Official Name:** Nkx2.2\textsuperscript{(Cre.EGFP)Suss}
- **Description:** In this mouse, a coding portion of the transcription factor Nkx2.2 was replaced with a Cre-EGFP cassette, in frame to the Nkx2.2 ATG. This allows for sites of Nkx2.2 gene expression to be identified in mice using direct immunofluorescence, FACS purification of Nkx2.2 expressing cells, and lineage tracing using Nkx2.2 driven Cre expression.
- **Categories:** Fluorescent Probes

**Genetic Alterations**

1) **RMCE Targeted Mutagenesis**

- **Type of Allele:** Cassette Acceptor
- **Targeted Gene:** NK2 transcription factor related, locus 2 \textsuperscript{(Nkx2-2 - NCBI GeneID:18088)}
- **Targeted Allele:** targeted mutation 1 \textsuperscript{(Nkx2.2\textsuperscript{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. (Cre-Egfp)
- **Exchanged Cassette Allele Name:** Nkx2.2\textsuperscript{Cre-EGFP}
- **Description of Exchange Vector:** The Nkx2.2.Cre.EGFP.HygroD vector was made on a backbone of a basal exchange vector which contains a 5.115 kb sequence from the Nkx2.2 locus, Lox71/Lox2272 sites, and a fltered (flanked by FRT) Pkg-Hygro cassette that is used for positive selection of ES cells after RMCE. 1.956 kb of the native Nkx2.2 gene sequence, containing a portion of exon 1 (all but the first 214 bp) and all of exon 2, was replaced with a Cre-Egfp fusion coding sequence after the Nkx2.2 ATG translation initiation site.
- **Exchange Vector Genbank File:** Nkx2.2.Cre.EGFP.HygroD.gb
- **Citations:** Not Available

**Strain Information**

- **Strain Type:** Mixed
- **Chimera/Founder Genetic Background:** 129S6/SvEvTac
- **Current Genetic Background:** C57BL/6 (date recorded: 11/23/2011)
- **Strain Description:** Not provided

**Associated Images**

- **Image 1**

**Access Status**

- This resource is publicly viewable.

**Request this Resource**

- **Primary contributor:** Sussel Lab
- **Co-contributed by:** BCBC Mouse / ES Cell Core

**Resource Tags**

- mouse, mouse strain, Nkx2.2\textsuperscript{(Cre.EGFP)Suss}

**Resource History & Actions**

- Approved on Jan 04, 2012
- Last modified on Dec 19, 2011

**Related resources**

- **BCBC**
  - No matching resources

**Other Consortia**

- No matching resources

Data courtesy of dkCOIN. Only public resources are displayed.