**Mouse Information**

- **Common Name:** Rosa26(TetO,NRSF)Msan
- **MGI Official Name:** Rosa26(TetO,NRSF)Msan
- **Description:** This mouse line contains bidirectional TetO-regulated genes inserted into the Rosa26[CA] allele by RMCE. In one direction, the TetO/CMV promoter drives the expression of the transcription factor NRSF/REST. In the other direction, it drives the expression of red fluorescent protein mCherry. In this mouse line, when the effector protein rtTA is expressed, NRSF and mCherry will be simultaneously over-expressed upon administration of doxycycline.

**Categories:** Tet

**Genetic Alterations**

1) **RMCE Targeted Mutagenesis**

- **Type of Allele:** Cassette Acceptor
- **Targeted Gene:** gene trap ROSA 26, Philippe Soriano (Gt(Rosa)26Sor - NCBI GeneID:14910)
- **Targeted Allele:** targeted mutation 1 (Rosa26<sup>tm1(LCA)</sup> - MGI:104735)
- **Description of Targeting Vector:** The Rosa 26 cassette acceptor allele was created by replacing a 5.165 kb region of this gene containing exon 1 with a floxed tk-neo cassette, a puromycin-delta-thymidine kinase fusion gene driven by the mouse phosphoglycerol kinase promoter (pU-deltaTK) and a neomycin resistant gene driven by the bacterial EM7 promoter (EM7neo) flanked by minimal (34 bp) tandemly oriented lox71 and lox2272 sites.

**Targeting Vector Genbank File:** pRosa26.LCA.gb

**Recombinase-Mediated Cassette Exchange Stage**

- **Type of Allele:** Conditional Activating
- **Exchanged Cassette Gene:** Not provided. (MGI:19712)
- **Exchanged Cassette Allele Name:** NRSF
- **Description of Exchange Vector:** The phygro66.2272.TetO.NRSF exchange vector was made on a backbone of a basal exchange vector which contains Lox71/Lox2272 sites and a flanked by FRT) Pgk-Hygro cassette for positive selection of ES cells after RMCE. Bidirectional Tet-O regulated genes mCherry and Nrsf were inserted between the Pgk-Hygro and Lox2272 sites.

**Exchange Vector Genbank File:** phygro66.2272.TetO.NRSF.gb

**Strain Information**

- **Strain Type:** Mixed
- **Chimera/Founder Genetic Background:** 129S6/SvEvTac
- **Current Genetic Background:** C57BL/6 (date recorded: 11/28/2011)
- **Strain Description:** Not provided
Associated Images

Image 1

Description: Not provided
Reference: Not provided

Repositories

Sander Lab

Stock #: Not provided
Availability Notes: Not provided

Contact Information

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Associated Publications

No publications associated

Comments

There are no comments for this entry.