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**Rosa26<sup>(TetO.NRSF)</sup>Msan - Mouse Strain RES4152****Mouse Information**

<b>Common Name:</b>	Rosa26 <sup>(TetO.NRSF)</sup> Msan
<b>MGI Official Name:</b>	Rosa26 <sup>(TetO.NRSF)</sup> Msan
<b>Description:</b>	This mouse line contains bidirectional TetO-regulated genes inserted into the Rosa26[LCA] 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.
<b>Categories:</b>	Tet


**Genetic Alterations**

<b>1) RMCE Targeted Mutagenesis</b>	
<b>Type of Allele</b>	Cassette Acceptor
<b>Targeted Gene</b>	gene trap ROSA 26, Philippe Soriano (Gt(ROSA)26Sor - <a href="#">NCBI GeneID:14910</a> )
<b>Targeted Allele</b>	targeted mutation 1 (Rosa26 <sup>tm1(LCA)</sup> - <a href="#">MGI:104735</a> )
<b>Description of Targeting Vector</b>	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.
<b>Targeting Vector Genbank File</b>	<a href="#">pRosa26.LCA.gb</a>
<b>Recombinase-Mediated Cassette Exchange Stage</b>	
<b>Type of Allele:</b>	Conditional Activating
<b>Exchanged Cassette Gene</b>	Not provided. ( <a href="#">MGI:19712</a> )
<b>Exchanged Cassette Allele Name</b>	NRSF
<b>Description of Exchange Vector</b>	The phygro66.2272.TetO.NRSF exchange vector was made on a backbone of a basal exchange vector which contains Lox71/Lox2272 sites and a flrtd (flanked by FRT) P <sub>gk</sub> -Hygro cassette for positive selection of ES cells after RMCE. Bidirectional Tet-O regulated genes mCherry and Nrsf were inserted between the P <sub>gk</sub> -Hygro and Lox2272 sites.
<b>Exchange Vector Genbank File:</b>	<a href="#">phygro66.2272.TetO.NRSF.gb</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>	C57BL/6 (date recorded: 11/28/2011)
<b>Strain Description:</b>	Not provided

**Access Status**

 This resource is publicly viewable.

**Request this Resource**

 Request from a repository

Primary contributor: [Sander Lab](#)  
Co-contributed by:  
• [BCBC Mouse / ES Cell Core](#)

**Resource Tags**


mouse, mouse strain,  
Rosa26<sup>(TetO.NRSF)</sup>Msan

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**Resource History & Actions**

Approved on Dec 22, 2011  
Last modified on Sep 19, 2012

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**Related resources****BCBC**

No matching resources

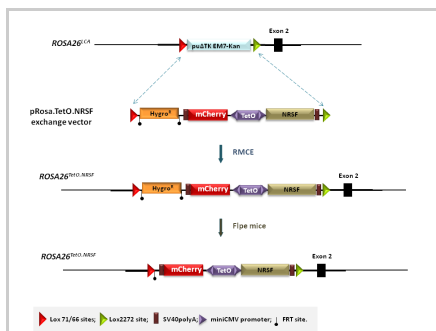
**Other Consortia**

No matching resources

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

## Associated Images

Image 1

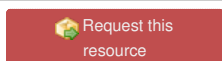


**Description:**  
Not provided

**Reference:**  
Not provided

## Repositories

### Sander Lab



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

## Contact Information

### Preferred Contact

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## Associated Publications

No publications associated

## Comments

There are no comments for this entry.

