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**Rosa26<sup>(TetO.Sox9)</sup>Msan - Mouse Strain RES4030****Mouse Information**

<b>Common Name:</b>	Rosa26 <sup>(TetO.Sox9)</sup> Msan
<b>MGI Official Name:</b>	Rosa26 <sup>(TetO.Sox9)</sup> Msan
<b>Description:</b>	This mouse line contains bidirectional TetO-regulated genes inserted into the Rosa26 <sup>L<sup>CA</sup></sup> allele by RMCE. In one direction, the TetO/CMV promoter drives the expression of the transcription factor Sox9. In the other direction, it drives the expression of the red fluorescent protein mCherry. In this mouse line, when the effector protein rTA is expressed, Sox9 and mCherry will be over-expressed simultaneously upon administration of doxycycline.
<b>Categories:</b>	Tet


**Genetic Alterations**

1) RMCE Targeted Mutagenesis	
<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>
Recombinase-Mediated Cassette Exchange Stage	
<b>Type of Allele:</b>	Conditional Activating
<b>Exchanged Cassette Gene</b>	SRY-box containing gene 9 ( <a href="#">MGI:20682</a> )
<b>Exchanged Cassette Allele Name</b>	Sox9
<b>Description of Exchange Vector</b>	The phygro66.2272.TetO.Sox9 exchange vector was made on a backbone of a basal exchange vector containing Lox66/Lox2272 sites and a flrtd (flanked by FRT) Pgk-Hygro cassette for positive selection of ES cells after RMCE. Bidirectional Tet-O regulated genes mCherry and Sox9 were inserted between the Pgk-Hygro and Lox2272 sites.
<b>Exchange Vector Genbank File:</b>	<a href="#">phygro66.2272.TetO.Sox9.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/6J (date recorded: 12/14/2011)
<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.Sox9)</sup>Msan

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**Resource History & Actions**

Approved on Dec 21, 2011  
Last modified on Dec 14, 2011

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**Related resources****BCBC**

No matching resources

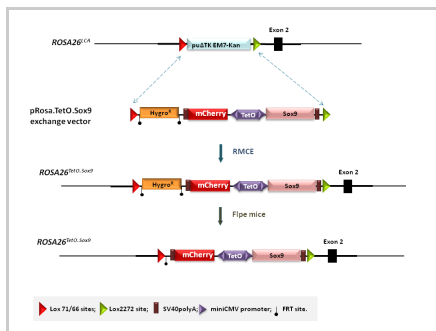
**Other Consortia**

No matching resources

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

## Associated Images

### Image 1


**Description:**

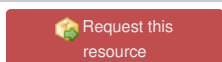
*Not provided*

**Reference:**

*Not provided*

## Repositories

### Magnuson Lab



**Stock #:** ML BSID 0083

**Availability Notes:** Sperm cryo

## Contact Information

### Preferred Contact

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## Associated Publications

*No publications associated*

## Comments

*There are no comments for this entry.*

