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**Rosa26<sup>(228.AR8.TA.mCherry)</sup>Mgn - Mouse Strain RES4153****Mouse Information**

<b>Common Name:</b>	Rosa26 <sup>(228.AR8.TA.mCherry)</sup> Mgn
<b>MGI Official Name:</b>	Gt(ROSA)26Sor <sup>tm2.1(mix1b-mCherry)</sup> Mgn
<b>Description:</b>	This mouse line was generated by RMCE in the Rosa26[LCA] allele. In this mouse line, the Rosa26 gene sequence (-228 to +81) was replaced by the Foxh1/Smad2-dependent, Mix2-derived Activin response element (AR8) fused to a TATA-mCherry reporter. These mice may be useful to assess Activin, Nodal, and TGFbeta responsiveness.
<b>Categories:</b>	Fluorescent Probes


**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>	Gene Replacement
<b>Exchanged Cassette Gene</b>	Activin Response Element (R26-228-AR8-TA-mCherry)
<b>Exchanged Cassette Allele Name</b>	Rosa26 <sup>(R26-228-AR8-TA-mCherry)</sup>
<b>Description of Exchange Vector</b>	The pRosa26-228 AR8 TA-Cherry vector was made on a backbone of a basal exchange vector which contains a 5.166 kb sequence from the Rosa26 locus, Lox71/Lox2272 sites, and a flrtd (flanked by FRT) Pgk-Neo cassette that is used for positive selection of ES cells after RMCE. The Rosa26 gene sequence (-228 to +81) was replaced by the Foxh1/Smad2-dependent, Mix2-derived Activin response element (AR8) fused to a TATA-mCherry reporter.
<b>Exchange Vector Genbank File:</b>	<a href="#">pr26228_ar8_tacherry.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: 11/29/2011)
<b>Strain Description:</b>	Not provided

**Access Status**

 This resource is publicly viewable.


**Request this Resource**

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

**Resource Tags**

Gt(ROSA)26Sor<sup>tm2.1(mix1b-mCherry)</sup>Mgn, mouse, mouse strain, Rosa26<sup>(228.AR8.TA.mCherry)</sup>Mgn

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**Resource History & Actions**

Approved on Jan 04, 2012  
Last modified on Jun 04, 2013

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**Related resources****BCBC**

No matching resources

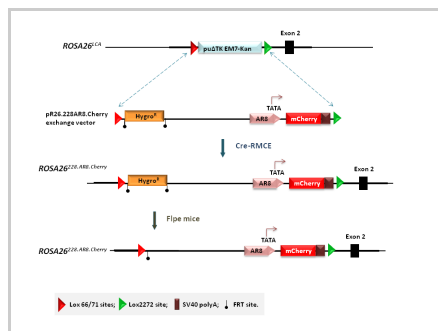
**Other Consortia**

No matching resources

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

## Associated Images

### Image 1



**Description:**  
*Not provided*

**Reference:**  
*Not provided*

## Repositories

### MMRRC

 Request via [www.mmrc.org](http://www.mmrc.org) website

**Stock #:** 036911

**Availability Notes:** *Not provided*

### Serup Lab

*No URL supplied for repository*

**Stock #:** *Not provided*

**Availability Notes:** *Not provided*

## Contact Information

### Preferred Contact

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## Associated Publications

### Publication Citation

[22888097](#) Serup P, Gustavsen C, Klein T, Potter LA, Lin R, Mullanpudi N, Wandzioch E, Hines A, Davis A, Bruun C, Engberg N, Petersen DR, Peterslund JM, Macdonald RJ, Grapin-Botton A, Magnuson MA, Zaret KS [Partial promoter substitutions generating transcriptional sentinels of diverse signaling pathways in embryonic stem cells and mice.](#) (2012) *Dis Model Mech* 5: 956-66 (Added March 21, 2013)

## Comments

*There are no comments for this entry.*

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