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Rosa26^(228.AR8.TA.mCherry)Mgn - Mouse Strain RES4153**Mouse Information**

Common Name:	Rosa26 ^(228.AR8.TA.mCherry) Mgn
MGI Official Name:	Gt(ROSA)26Sor ^{tm2.1(mix1b-mCherry)} Mgn
Description:	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.
Categories:	Fluorescent Probes

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 ^{tm1(LCA)} - 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:	Gene Replacement
Exchanged Cassette Gene	Activin Response Element (R26-228-AR8-TA-mCherry)
Exchanged Cassette Allele Name	Rosa26 ^(R26-228-AR8-TA-mCherry)
Description of Exchange Vector	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.
Exchange Vector Genbank File:	pr26228_ar8_tacherry.gb
Citations	Not Available


Strain Information

Strain Type:	Mixed
Chimera/Founder Genetic Background:	129S6/SvEvTac
Current Genetic Background:	C57BL/6 (date recorded: 11/29/2011)
Strain Description:	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^{tm2.1(mix1b-mCherry)}Mgn, mouse, mouse strain, Rosa26^(228.AR8.TA.mCherry)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

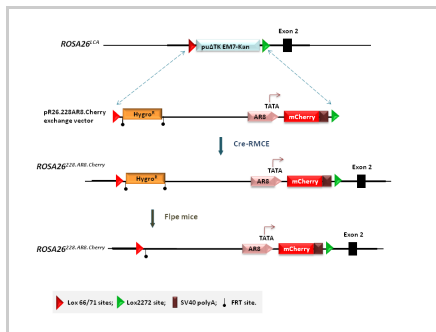
Other Consortia

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.mmrrc.org website

Stock #: 036911

Availability Notes: *Not provided*

Serup Lab

No URL supplied for repository

Stock #: *Not provided*

Availability Notes: *Not provided*

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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

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