

**My Account**

Login  
Create Account

**Resources**

View All (813)  
Adenoviruses (137)  
Antibodies (175)  
Bioimages (67)  
Genomics Studies (145)  
mESC Lines (68)  
Mouse Strains (120)  
Miscellaneous (46)  
Protocols (55)  
Research Data (4)  
Resource Tags (389)  
Visualization (9)

**Research & Cores**

Core Facilities (5)  
Research Highlights (5)  
Research Networks  
Research Objectives

**Information**

About the BCBC  
BCBC Events  
Branding & Logos  
Career Opportunities  
Health  
NIH hESC Registry  
Policies & Guidelines  
Member Publications  
Research Programs  
Research Investigators  
Member Directory  
Tutorials

**Rosa26<sup>228.TOP.CFP</sup> - Mouse Strain RES4534****Mouse Information**

<b>Common Name:</b>	Rosa26 <sup>228.TOP.CFP</sup>
<b>MGI Official Name:</b>	Rosa26 <sup>228.TOP.CFP<sup>Hr</sup></sup>
<b>Description:</b>	In this mouse strain the Rosa26 gene sequence from -228 to +81 was replaced by a Wnt response element (7xTcf/Lef binding site) fused to a TATA-Cerulean (CFP) reporter. These mice may be useful in assessing Canonical Wnt responsiveness.
<b>Categories:</b>	Cre-lox floxed alleles

**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>
<b>Recombinase-Mediated Cassette Exchange Stage</b>	
<b>Type of Allele:</b>	Gene Replacement
<b>Exchanged Cassette Gene</b>	Gt(ROSA)26Sor gene trap ROSA 26, Philippe Soriano (Gt(ROSA)26Sor - <a href="#">NCBI GeneID:14910</a> )
<b>Exchanged Cassette Allele Name</b>	Rosa26 <sup>228.TOP.CFP</sup>
<b>Description of Exchange Vector</b>	The pR26.228.TOP.CFP vector was made on a backbone of a basal construct containing 5.166 kb from the Rosa26 region removed by gene targeting in the Rosa26LCA allele, Lox71/Lox2272 sites and a flrtd (flanked by FRT) Pgk-Neo cassette for positive selection of ES cells after RMCE. Rosa26 gene sequences from -228 to +81 were replaced by a Wnt response element (7xTcf/Lef binding site) fused to a TATA-Cerulean (CFP) reporter.
<b>Exchange Vector Genbank File:</b>	<a href="#">pR26.228.TOP.CFP.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: 08/29/2012)
<b>Strain Description:</b>	Not provided

**Access Status**

 This resource is publicly viewable.


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

**Resource Tags**

mouse, mouse strain, Rosa26<sup>228.TOP.CFP</sup>, Rosa26<sup>228.TOP.CFP<sup>Hr</sup></sup>

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**Resource History & Actions**

Approved on Oct 09, 2012  
Last modified on Oct 09, 2012

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**Related resources****BCBC**

No matching resources

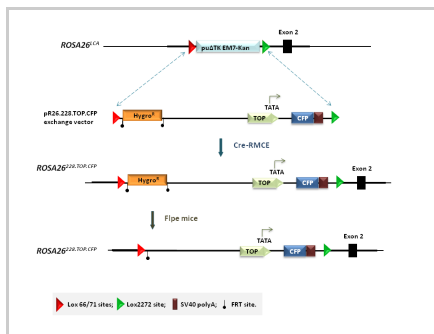
**Other Consortia**

No matching resources

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

## Associated Images

Image 1



### Description:

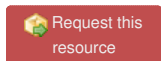
Utilizing Recombinase Mediated Cassette Exchange (RMCE), the pR26.228.TOP.CFP vector was exchanged into the Rosa26<sup>LCA</sup>. Mice generated from these exchanged cells were subsequently mated with Flpe mice for removal of the FRT flanked Hygro<sup>R</sup> cassette.

### Reference:

Not provided

## Repositories

### Magnuson Lab



**Stock #:** OV BSID 0099

**Availability Notes:** Sperm cryo vial OS0098, Straw OV, BSID 0099, 49 straws, frozen 12/18/12

## 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.

