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**Rosa26<sup>R26-228-IBRE4-TA-Cerulean</sup> - Mouse Strain RES4027****Mouse Information**

<b>Common Name:</b>	Rosa26 <sup>R26-228-IBRE4-TA-Cerulean</sup>
<b>MGI Official Name:</b>	Rosa26 <sup>(R26-228-IBRE4-TA-Cerulean)Hri</sup>
<b>Description:</b>	These mice were generated by performing recombinase mediated cassette exchange on the Rosa26 LCA. The sequence from -228 to +81 of the Rosa26 gene was replaced with a BMP responsive element (IBRE4) fused to a TATA-Cerulean (CFP) reporter. These mice may be useful in visualizing BMP responsiveness.
<b>Categories:</b>	Fluorescent Probes

**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>	Not provided. (R26-228-IBRE4-TA-Cerulean)
<b>Exchanged Cassette Allele Name</b>	Rosa26 <sup>R26-228-IBRE4-TA-Cerulean</sup>
<b>Description of Exchange Vector</b>	In these mice sequences from -228 to +81 of the Rosa26 gene were replaced by a BMP response element (IBRE4) fused to a TATA-Cerulean (CFP) reporter. These mice may be useful for visualizing BMP responsiveness.
<b>Exchange Vector Genbank File:</b>	<a href="#">pR26228.IBRE4.TACerulean.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: Not provided)
<b>Strain Description:</b>	Not provided


**Associated Images**

No associated images have been supplied

**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**

mouse, mouse strain, Rosa26<sup>R26-228-IBRE4-TA-Cerulean</sup>

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**Resource History & Actions**

Approved on Apr 19, 2011  
Last modified on Dec 21, 2011

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

## Repositories

*No repositories indicated.*

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## Associated Publications

*No publications associated*

## Comments

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