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Rosa26^{R26-228-IBRE4-TA-Cerulean} - Mouse Strain RES4027**Mouse Information**

Common Name:	Rosa26 ^{R26-228-IBRE4-TA-Cerulean}
MGI Official Name:	Rosa26 ^{(R26-228-IBRE4-TA-Cerulean)Hri}
Description:	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.
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	Not provided. (R26-228-IBRE4-TA-Cerulean)
Exchanged Cassette Allele Name	Rosa26 ^{R26-228-IBRE4-TA-Cerulean}
Description of Exchange Vector	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.
Exchange Vector Genbank File:	pR26228.IBRE4.TACerulean.gb
Citations	Not Available


Strain Information

Strain Type:	Mixed
Chimera/Founder Genetic Background:	129S6/SvEvTac
Current Genetic Background:	C57BL/6J (date recorded: Not provided)
Strain Description:	Not provided


Associated Images

No associated images have been supplied

Access Status

 This resource is publicly viewable.


Request this Resource

 Request from a repository

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

Resource Tags

mouse, mouse strain, Rosa26^{R26-228-IBRE4-TA-Cerulean}

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Resource History & Actions

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

Repositories

No repositories indicated.

Contact Information

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Associated Publications

No publications associated

Comments

There are no comments for this entry.

