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Rosa26^{228.TOP.CFP} - Mouse Strain RES4534**Mouse Information**

Common Name:	Rosa26 ^{228.TOP.CFP}
MGI Official Name:	Rosa26 ^{228.TOP.CFP^{Hi}}
Description:	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.
Categories:	Cre-lox floxed alleles

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	Gt(ROSA)26Sor gene trap ROSA 26, Philippe Soriano (Gt(ROSA)26Sor - NCBI GeneID:14910)
Exchanged Cassette Allele Name	Rosa26 ^{228.TOP.CFP}
Description of Exchange Vector	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.
Exchange Vector Genbank File:	pR26.228.TOP.CFP.gb
Citations	Not Available


Strain Information

Strain Type:	Mixed
Chimera/Founder Genetic Background:	129S6/SvEvTac
Current Genetic Background:	C57BL/6J (date recorded: 08/29/2012)
Strain Description:	Not provided

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^{228.TOP.CFP}, Rosa26^{228.TOP.CFP^{Hi}}

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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

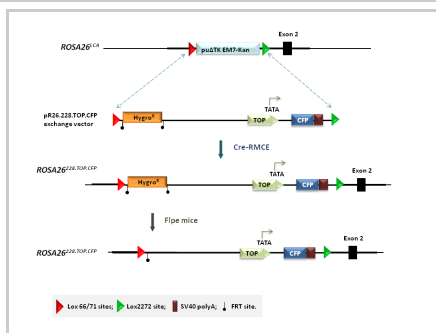
Other Consortia

No matching resources

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

Associated Images

Image 1



Description:

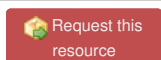
Utilizing Recombinase Mediated Cassette Exchange (RMCE), the pR26.228.TOP.CFP vector was exchanged into the Rosa26^{LCA}. Mice generated from these exchanged cells were subsequently mated with F1pe mice for removal of the FRT flanked Hygro^R cassette.

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) <i>Dis Model Mech</i> 5: 956-66 (Added March 21, 2013)

Comments

There are no comments for this entry.

