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Rosa26^{228.TOP.CFP} - ES Cell Line RES4148**ESC Line Information**

| | |
|----------------------------|---|
| Cell Line Name: | Rosa26 ^{228.TOP.CFP} |
| Parental Cell Line: | TL-1 |
| Background Strain: | 129 |
| Culturing Protocol: | Std_mESC_Culture.doc |
| Description: | This ES cell line was generated by RMCE in the Rosa26 ^{LCA} allele. 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. This ES cell line may be useful for assessing canonical Wnt responsiveness. |

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. (TOP (Wnt response element)) |
| Exchanged Cassette Allele Name | 7xTcf/Lef binding site |
| Description of Exchange Vector | The pR26.228.TOP.CFP 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) Pkg-Neo cassette that is used for positive selection of ES cells after RMCE. 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. |
| Exchange Vector Genbank File: | pR26.228.TOP.CFP.gb |
| Citations | Not Available |

Associated Images**Image 1**


Description:
Not provided

Reference:
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


embryonic, es, esc, Rosa26^{228.TOP.CFP}, stem, TL-1

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 Read more about tags

Resource History & Actions

Approved on Dec 22, 2011
Last modified on Dec 19, 2011

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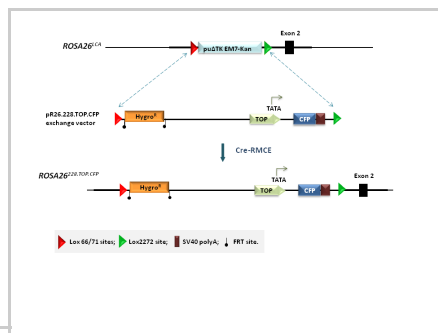
Related resources**BCBC**

No matching resources

Other Consortia

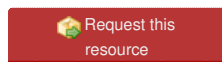
No matching resources

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



Repositories

Magnuson Lab



Stock #: *Not provided*
Availability Notes: *Not provided*

Contact Information

Preferred Contact

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Associated Publications

No publications associated

Comments

There are no comments for this entry.



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