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**Rosa26<sup>EN.CFP.SV40.Neo</sup> - ES Cell Line RES2522****ESC Line Information**

<b>Cell Line Name:</b>	Rosa26 <sup>EN.CFP.SV40.Neo</sup>
<b>Parental Cell Line:</b>	TL-1 / Rosa26[LCA] clone 5B9
<b>Background Strain:</b>	129
<b>Culturing Protocol:</b>	<a href="#">std_mesc_culture.doc</a>
<b>Description:</b>	This ES cell line contains CFP (Cerulean) inserted into a Rosa26 LCA allele by recombinase mediated cassette exchange. These cells were used to identify the optimal arrangement of regulatory elements for fluorescent protein expression from a single genomic copy.


**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>	Cerulean Fluorescent Protein (CFP)
<b>Exchanged Cassette Allele Name</b>	Rosa26 <sup>CFP.SV40</sup>
<b>Description of Exchange Vector</b>	not available
<b>Exchange Vector Genbank File:</b>	<a href="#">prosa.en.cfp.sv40.neo.gb</a>

Citations	PubMedID	Citation
	<a href="#">21324933</a>	<a href="#">Quantification of factors influencing fluorescent protein expression using RMCE to generate an allelic series in the ROSA26 locus in mice. (2011) Dis Model Mech 4: 537-47 (Added 2012-09-24 16:36:23.369844)</a>


**Associated Images**

Image 1	Description:
	A cyan (Cerulean) fluorescent protein gene was placed under the control of a 4 kb Rosa 26 promoter element and followed by an SV40 polyA site.

**Access Status**

 This resource is publicly viewable.

**Request this Resource**

 Request from a repository

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

**Resource Tags**

embryonic, es, esc, mESC Core, RMCE, Rosa26, Rosa26<sup>EN.CFP.SV40.Neo</sup>, stem, TL1-Rosa26<sup>LCA</sup> 5B9

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**Resource History & Actions**

Approved on Nov 25, 2009  
Last modified on Mar 07, 2011

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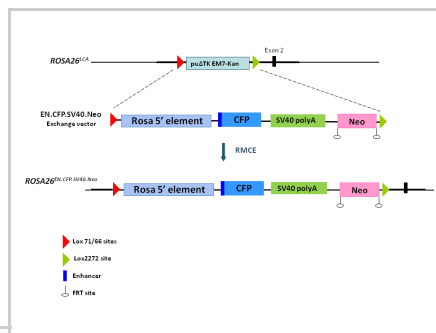
**Related resources****BCBC**

No matching resources

**Other Consortia**

No matching resources

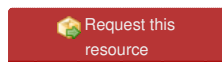
Data courtesy of [dkCOIN](#). Only public resources are displayed.



Reference:  
Not provided

## 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.

