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**Rosa26[Nepn.Cherry] - Mouse Strain RES4022****Mouse Information**

<b>Common Name:</b>	Rosa26[Nepn.Cherry]
<b>MGI Official Name:</b>	Rosa26 <sup>(Nepn.Cherry)Mgn</sup>
<b>Description:</b>	Nephrocan (Nepn) has been shown to be expressed specifically during early endoderm development. A Nepn promoter driven reporter (Cherry) has been inserted in the Rosa26LCA locus by recombinase mediated cassette exchange. This mouse line will be useful in visualizing whether Nepn can be used as a specific DE marker for beta-cell development.
<b>Categories:</b>	Fluorescent Probes

**Genetic Alterations**

<b>1) RMCE Targeted Mutagenesis</b>	
<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>	<i>Not available</i>
<b>Exchanged Cassette Gene</b>	Not provided. ( <a href="#">MGI:14910</a> )
<b>Exchanged Cassette Allele Name</b>	Rosa26[Nepn.Cherry]
<b>Description of Exchange Vector</b>	Rosa26[Nepn.Cherry]
<b>Exchange Vector Genbank File:</b>	<a href="#">pbs.lox.nepn.cherry.ha1ha22.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**

<b>Image 1</b>	<b>Description:</b> <i>Not provided</i>
	<b>Reference:</b>

**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**

mouse, mouse strain,  
Rosa26[Nepn.Cherry]

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**Resource History & Actions**

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

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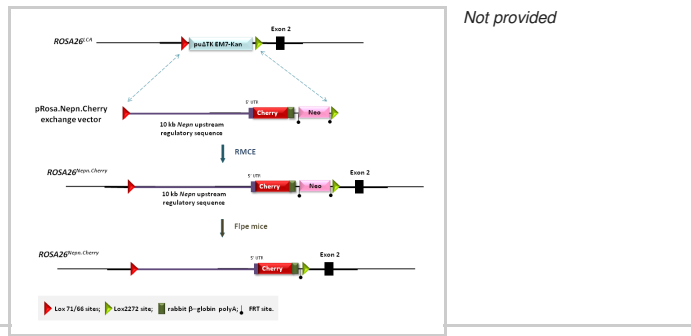
**Related resources****BCBC**

*No matching resources*

**Other Consortia**

*No matching resources*

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



## Repositories

### Magnuson Lab

Out of stock

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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