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Rosa26^{R26-228-AR8-TA-mCherry} - ES Cell Line RES2782**ESC Line Information**

Cell Line Name:	Rosa26 ^{R26-228-AR8-TA-mCherry}
Parental Cell Line:	TL-1 / Rosa26[LCA] clone 5B9
Background Strain:	129
Culturing Protocol:	std_mesc_culture.doc
Description:	In these cells Rosa26 gene sequences from -228 to +81 were replaced by an Activin response element (AR8) fused to a TATA-mCherry reporter. These ESCs may be useful to assess Activin, Nodal, and TGFbeta 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	Activin Response Element (R26-228-AR8-TA-mCherry)
Exchanged Cassette Allele Name	Rosa26 ^{Im2.2(R26-228-AR8-TA-mCherry)}
Description of Exchange Vector	not available
Exchange Vector Genbank File:	pr26228_ar8_tacherry.gb
Citations	Not Available

Associated Images

No associated images have been supplied

Repositories**Magnuson Lab**


 Request this resource

Stock #: BCBC2782
Availability Notes: *Not provided*


Contact Information**Preferred Contact**

Name	Palle Serup
Institution	University of Copenhagen

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^{LCA}, Rosa26^{R26-228-AR8-TA-mCherry}, stem

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Resource History & Actions

Approved on Jan 20, 2010
Last modified on Mar 30, 2010

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


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Associated Publications

No publications associated

Comments

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