

My Account

Login
Create Account

Resources

View All (813)
Adenoviruses (137)
Antibodies (175)
Bioimages (67)
Genomics Studies (145)
mESC Lines (68)
Mouse Strains (120)
Miscellaneous (46)
Protocols (55)
Research Data (4)
Resource Tags (389)
Visualization (9)

Research & Cores

Core Facilities (5)
Research Highlights (5)
Research Networks
Research Objectives

Information

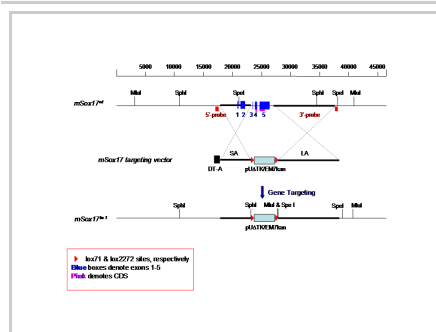
About the BCBC
BCBC Events
Branding & Logos
Career Opportunities
Health
NIH hESC Registry
Policies & Guidelines
Member Publications
Research Programs
Research Investigators
Member Directory
Tutorials

Sox17^{LCA} - ES Cell Line RES263**ESC Line Information**

Cell Line Name:	Sox17 ^{LCA}
Parental Cell Line:	TL-1
Background Strain:	129
Culturing Protocol:	Std_mESC_Culture.doc
Description:	This mouse ES cell line contains a loxed cassette acceptor (LCA) allele that may be utilized for the exchange of DNAs of interest into the Sox17 gene locus by recombinase mediated cassette exchange (RMCE). A 3.79 kb region of the gene (exons 3-5) was replaced by tandemly oriented lox66 and lox2272 sites as well as both positive and negative selectable markers.

Genetic Alterations

1) Targeted Mutagenesis	
Type of Allele	Cassette Acceptor
Targeted Gene	SRY-box containing gene 17 (Sox17 - NCBI GeneID:20671)
Targeted Allele	targeted mutation 1 (Sox17 ^{tm1(LCA)} - MGI:107543)
Description of Targeting Vector	pSox17.LCA e targeting vector contains 10.288 kb 5' arm and 4.525 kb 3' arm. Lox66 and Lox2272 sites are inserted flanking PuTK selection marker for positive selection for targeting events with puromycin and negative selection for RMCE events with ganciclovir.
Targeting Vector Genbank File	pmSox17.LCA.gb
Citations	Not Available

Associated Images**Image 1****Description:**

A 3.793 kb region of the mouse Sox17 gene was replaced with Lox66 site, a puromycin-delta-thymidine kinase fusion gene driven by the mouse phosphoglycerol kinase promoter, a neomycin resistant gene driven by the bacterial EM7 promoter (EM7neo), and a lox2272 site by homologous recombination in ES cells.

Reference:


Not provided

Repositories**Magnuson Lab**

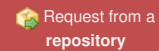
 Request this resource

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

Access Status

 This resource is publicly viewable.

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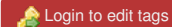
Primary contributor: [Magnuson Lab](#)

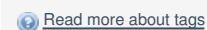
Co-contributed by:

- [BCBC Mouse / ES Cell Core](#)
- [Grapin-Botton Lab](#)

Resource Tags

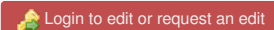
embryonic, es, esc, LCA, mESC Core, RMCE, Sox17, Sox17^{LCA}, stem, TL-1

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Resource History & Actions

Approved on Aug 14, 2008
Last modified on Mar 13, 2012

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

Contact Information

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Associated Publications

No publications associated

Comments

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