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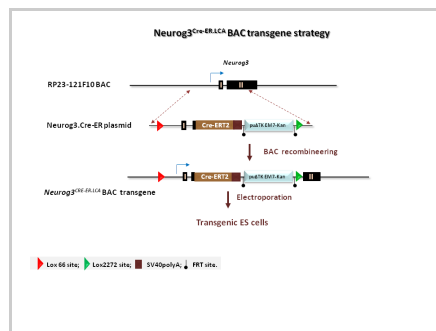
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Neurog3^{Cre-ER}.BAC - ES Cell Line RES4529**ESC Line Information**

Cell Line Name:	Neurog3 ^{Cre-ER} .BAC
Parental Cell Line:	TL-1
Background Strain:	129
Culturing Protocol:	Std_mESC_Culture.doc
Description:	This line has a single copy of Neurog3-Cre-ER.LCA BAC transgene inserted in a genome. The transgene is designed to express Cre-ER under control of Neurog 3 promoter and will allow inducible tracking or gene inactivation in the Ngn3-LOW and Ngn3-HIGH populations of pre-endocrine cells. Additionally, the lox66 and lox2272 sites will allow the BAC transgene to serve as a loxed cassette acceptor (LCA) in ES cells for future recombinase-mediated cassette exchange (RMCE).

Genetic Alterations**1) BAC or Transgene Insertion**


Type of Vector	BAC
BAC Clone Number	121F-10
BAC Resource Library	RPCI-23
Promoter	Neurogenin 3 (Neurog3 - MGI:11925)
Expressed Gene	Cre recombinase (Cre - MGI:277477)
Description of Transgene	Using BAC recombineering, a Cre-ER coding sequence with FRT-flanked puroR-ΔTK selection cassette and a downstream lox2272 site, were inserted in front of the Ngn3 translational start site in the RP23-121F10 BAC. A lox66 site was inserted, via GalK selection, into an unconserved region 5' of the Ngn3 transcriptional start site.
Vector Genbank File	pBACe3_6_RP23_121F10_Ngn3CreER.gb
Citations	<i>Not provided</i>

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


Mouse ES cells that express Cre-ER under control of Nng3 were made by inserting the Cre-ER coding sequences into a Neurog3 BAC (clone RPCI-23 121F10) by BAC recombineering, and then electroporating the modified BAC clone into mESCs. mESC clones surviving chemical selection were screened to identify clones containing single copy intact BAC insertion and designated as Neurog3^{Cre-ER}.LCA (Loxed Cassette Acceptor) transgenic mESCs.

Reference:
Not provided

Access Status

 This resource is publicly viewable.


Request this Resource


 Request from a repository

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

Resource Tags


embryonic, es, esc, Neurog3^{Cre-ER}.BAC, stem, TL-1

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 Read more about tags

Resource History & Actions

Approved on Sep 25, 2012
Last modified on Sep 05, 2012

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Related resources**BCBC**

No matching resources

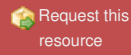
Other Consortia

No matching resources

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

Repositories

Wright Lab



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

Contact Information

Preferred Contact

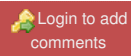
Name	Chris Wright
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Associated Publications

No publications associated

Comments

There are no comments for this entry.



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