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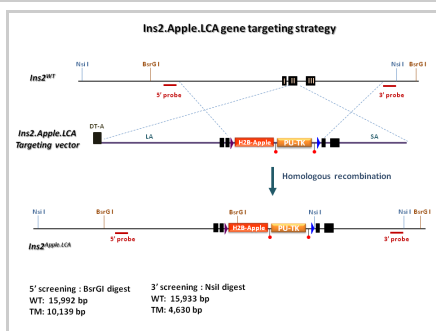
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Ins2^{Apple.LCA} - ES Cell Line RES4156**ESC Line Information**

| | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cell Line Name: | Ins2 ^{Apple.LCA} |
| Parental Cell Line: | TL-1 |
| Background Strain: | 129 |
| Culturing Protocol: | Std_mESC_Culture.doc |
| Description: | This ES cell line was made by gene targeting and designed to express a H2B-Apple fusion protein (nuclear red fluorescent protein) from the Ins2 promoter. The FP coding sequence is downstream of the Ins2 start codon (replacing exon 2 of Ins2) and is flanked by Lox66/Lox2272 sites to allow for future manipulations of the flanked region by RMCE. |


Genetic Alterations**1) Targeted Mutagenesis**

| | |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type of Allele | Cassette Acceptor |
| Targeted Gene | Insulin 2 (Ins2 - NCBI GeneID:20671) |
| Targeted Allele | <i>Not provided</i> (Ins2 ^{apple.LCA}) |
| Description of Targeting Vector | The targeting vector was based on the pSP72.Ins2.GFP.LNL targeting vector from Lori Susse's lab and contains 7078 bp 5' and 3570 bp 3' homology arms. The 5' homology arm is followed by a Lox66 site, a H2B-Apple sequence, a Lox2272 site, and a flrtd (FRT flanked) puTK selection marker that is used for positive selection with puromycin (for targeting events) and negative selection with ganciclovir (for RMCE events). |
| Targeting Vector Genbank File | pSP72.Ins2.Apple.LCA.gb |
| Citations | Not Available |

Associated Images**Image 1****Description:***Not provided***Reference:***Not provided***Access Status**

 This resource is publicly viewable.

Request this Resource

 Request from a repository

Primary contributor: [Herrera Lab](#)


Co-contributed by:

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

Resource Tags

embryonic, es, esc, Ins2^{Apple.LCA}, stem, TL-1


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Resource History & Actions

Approved on Dec 22, 2011

Last modified on Dec 19, 2011

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No matching resources

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

Repositories**Magnuson Lab**

 Request this resource

Stock #: *Not provided*

Availability Notes: *Not provided*

Contact Information**Preferred Contact**


| | |
|--------------------|--------------------------------------------------------------------------------|
| Name | Mark Magnuson |
| Institution | Vanderbilt University |
| Phone | 615-322-7006 |
| Email | mark.magnuson@vanderbilt.edu |

Associated Publications

No publications associated

Comments

There are no comments for this entry.

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