ESC Line Information

Cell Line Name: Ins2<sup>Apple.LCA</sup>

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

<table>
<thead>
<tr>
<th>Type of Allele</th>
<th>Cassette Acceptor</th>
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Targeted Gene | Insulin 2 (Ins2 - NCBI GeneID:20671)

Targeted Allele | Not provided (Ins2<sup>Apple.LCA</sup>)

Description of Targeting Vector: The targeting vector was based on the pSP72.Ins2.GFP.LNL targeting vector from Lori Sussel’s lab and contains 7078 bp 5' and 3570 bp 3' homology arms. The 5' homology arm is followed by a Lox site, a H2B-Apple sequence, a Lox site, and a flanked (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

Repositories

Magnuson Lab

Request this resource

Stock #: Not provided

Availability Notes: Not provided

Contact Information

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Associated Publications
No publications associated

Comments
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