Pdx1<sup>LCA</sup> - ES Cell Line RES2241

ESC Line Information

Cell Line Name: Pdx1<sup>LCA</sup>
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 Pdx1 gene locus by recombinase mediated cassette exchange (RMCE). An 8.62 kb region of the gene was replaced by tandemly oriented Lox66 and Lox2272 sites flanking both positive (puromycin) and negative (HSV-TK) selectable markers.

Genetic Alterations

1) Targeted Mutagenesis
Type of Allele: Cassette Acceptor
Targeted Gene: pancreatic and duodenal homeobox 1 (Pdx1 - NCBI GeneID:18609)
Targeted Allele: targeted mutation 1 (Pdx1<sup>tm1(LCA)</sup> - MGI:102851)
Description of Targeting Vector: An 8.62 kb region of this gene has been replaced by tandemly oriented Lox66 and Lox2272 sites flanking positive (puromycin) and negative (HSV-TK) selectable markers.
Targeting Vector Genbank File: ppdx1tv.gb
Citations: Not Available

Associated Images

Image 1

Description: By homologous recombination in mES cells, a 8624 bp fragment containing the 5' flanking region, exon 1 and part of intron 1 was deleted and replaced with a positive-negative selection cassette. The selection cassette consists of a Pgk-pu(delta)tk cassette for positive selection in ES cells, and an EM7-Kanomycin cassette for positive selection in bacterial cells.
Reference: Not provided

Repositories

Magnuson Lab
Out of stock
Stock #: VUMC
Availability Notes: Not provided

Contact Information

Preferred Contact
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