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Ghrl$^{Cre\text{-}eGFP}$ - ES Cell Line RES761

ESC Line Information

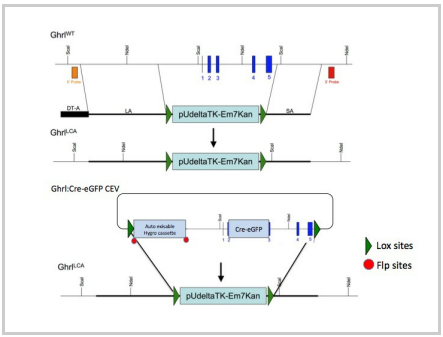
Cell Line Name:	Ghrl$^{Cre\text{-}eGFP}$
Parental Cell Line:	TL-1 / Ghrl{LCA}
Background Strain:	129
Culturing Protocol:	*Not provided.*
Description:	Recombinase mediated cassette exchange (RMCE) was used to insert the Cre-eGFP fusion protein into the ghrelin locus using ES cells containing the Ghrl^{LCA} allele. The Cre-eGFP protein uses the endogenous AUG start codon and polyadenylation sequence.

Genetic Alterations

1) RMCE Targeted Mutagenesis	
Type of Allele	Cassette Acceptor
Targeted Gene	Ghrelin (Ghrl - NCBI GeneID:58991)
Targeted Allele	targeted mutation (Ghrl^{LCA} - MGI:1930008)
Description of Targeting Vector	Not available
Targeting Vector Genbank File	ghrelin.gb
Recombinase-Mediated Cassette Exchange Stage	
Type of Allele:	Gene Replacement
Exchanged Cassette Gene	Cre-eGFP (Cre-eGFP)
Exchanged Cassette Allele Name	Ghrl$^{Cre\text{-}eGFP}$
Description of Exchange Vector	not available
Exchange Vector Genbank File:	Ghrl_Cre-eGFP_CEV.gb
Citations	Not Available

Associated Images

Image 1



Description:
Schematic diagram showing modifications of the ghrelin locus to insert the Cre-eGFP fusion protein coding sequence into the ghrlein locus. The top diagram shows creation of the Ghrl^{LCA} allele. ES cells containing the Ghrl^{LCA} allele were then used to generate the Cre-eGFP knockin allele as outlined in the lower diagram.

Reference:
Not provided

Repositories

Magnuson Lab

Request this resource

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

Access Status

This resource is publicly viewable.

Request this Resource

Request from a repository

Primary contributor: Sussel Lab
Co-contributed by:
- BCBC Mouse / ES Cell Core

Resource Tags

Cre, embryonic, es, ESC, esc, GFP, ghrelin, Ghrl$^{Cre\text{-}eGFP}$, stem, TL1-Ghrl^{LCA}

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Resource History & Actions

Approved on Jan 16, 2009
Last modified on May 19, 2011

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Related resources

BCBC

No matching resources

Other Consortia

No matching resources

Data courtesy of dkCOIN. Only public resources are displayed.

Contact Information

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Associated Publications

No publications associated

Comments

There are no comments for this entry.

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