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Ghrl^{Cre-eGFP} - Mouse Strain RES4278**Mouse Information**

Common Name:	Ghrl ^{Cre-eGFP}
MGI Official Name:	Ghrl ^{tm1(Cre-eGFP)Suss}
Description:	Ghrl ^{Cre-eGFP} mice contain a Cre-eGFP fusion protein which replaces the Ghrelin coding sequence. These mice express Cre-eGFP fusion protein under control of the Ghrelin gene locus. The Ghrl ^{Cre-eGFP} mice may be used to track ghrelin-expressing cells progeny, or to conditionally inactivate genes in ghrelin-expressing cells.
Categories:	Cre-lox Standard Fluorescent Probes

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	Not provided.
Exchanged Cassette Allele Name	Ghrl Cre-eGFP CEV
Description of Exchange Vector	Cre-eGFP fusion protein was cloned into the ghrelin locus by RMCE. This plasmid was injected into ES cells carrying the GhrlLCA allele along with a Cre-expressing allele. To facilitate positive selection of cassette-exchanged ES cells, a Pkg-Hygro selection cassette was inserted flanked by FRT sites. Removal of the FRT-flanked <i>HygroR</i> cassette was accomplished by inbreeding with <i>ACTB:FLPe</i> mice (Jackson).
Exchange Vector Genbank File:	Not Available
Citations	Not Available

Strain Information

Strain Type:	Mixed
Chimera/Founder Genetic Background:	C57BL/6
Current Genetic Background:	Black Swiss (date recorded: 03/07/2012)
Strain Description:	Not provided


Associated Images

Image 1


Description:

Ghrl:Cre-eGFP mice were generated using the RMCE protocol. Modified lox sites

Access Status

 This resource is publicly viewable.


Request this Resource


 Request from a repository

Primary contributor: [Sussex Lab](#)

Resource Tags

Ghrl^{Cre-eGFP}, Ghrl^{tm1(Cre-eGFP)Suss}, mouse, mouse strain

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Resource History & Actions

Approved on Sep 25, 2012
Last modified on Mar 07, 2012

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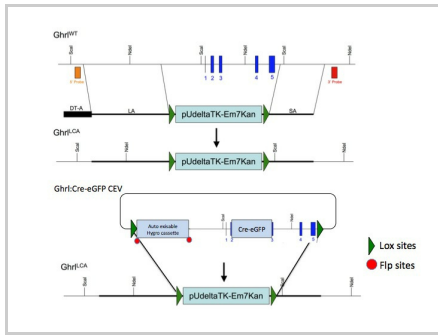
Related resources**BCBC**

No matching resources

Other Consortia

No matching resources

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



flanking positive and negative selection cassettes were inserted into the ghrelin locus spanning a 6.912 kb regions from 2678 bp upstream of exon 1 to 473 downstream of exon 5 using homologous recombination to create the GhrlLCA allele in mouse embryonic stem cell (ES). Ghrl:Cre-eGFP allele was then created using recombineering to insert a Cre-eGFP coding region into the ghrelin locus in a plasmid vector containing the region of the ghrelin locus removed in the GhrlLCA allele. This plasmid was injected into ES cells carrying the GhrlLCA allele along with a Cre-expressing allele.

Reference:
Not provided

Repositories

No repositories indicated.

Contact Information

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Associated Publications

No publications associated

Comments

There are no comments for this entry.

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