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PPARgamma^{lox} - Mouse Strain RES197

Mouse Information

Common Name:	PPARgamma ^{lox}
MGI Official Name:	Pparg ^{tm1.1Mgn}
Description:	These mice carry a conditional allele for PPARgamma that can be used in combination with various cre-expressing transgenes.
Categories:	Cre-lox floxed alleles

Genetic Alterations

1) Targeted Mutagenesis					
Type of Allele	Conditional Null				
Targeted Gene	Peroxisome proliferator-activated receptor gamma (Pparg - NCBI GeneID:19016)				
Targeted Allele	targeted mutation 1.1Mgn (Pparg ^{tm1.1Mgn} - MGI:2385456)				
Description of Targeting Vector	A gene targeting strategy that utilizes Cre/loxP was used to generate mice that contain loxP sites flanking exon 2 of the Pparg gene, thus generating a conditional allele. Genotype by DNA PCR using primers 5'-GCT CCT GAG TGC TAA TAT TAA AG-3' and 5'-CCA TGG ACT AAT GCT GTA ATA TTA-3' primers. These primers amplify a 572 bp loxed allele and a 464 bp wild type allele. Homozygous animals are viable and do not exhibit any obvious mutant phenotype. Heterozygous mice are viable and do not exhibit any obvious mutant phenotype.				
Targeting Vector Genbank File	mPPARG.KO.gb				
Citations	<table> <thead> <tr> <th>PubMedID</th> <th>Citation</th> </tr> </thead> <tbody> <tr> <td>11857800</td> <td>Generation and functional confirmation of a conditional null PPARgamma (2002) <i>Genesis</i> 32: 134-7 (Added 2005-04-13 13:07:31)</td> </tr> </tbody> </table>	PubMedID	Citation	11857800	Generation and functional confirmation of a conditional null PPARgamma (2002) <i>Genesis</i> 32 : 134-7 (Added 2005-04-13 13:07:31)
PubMedID	Citation				
11857800	Generation and functional confirmation of a conditional null PPARgamma (2002) <i>Genesis</i> 32 : 134-7 (Added 2005-04-13 13:07:31)				

Strain Information

Strain Type:	Congenetic Strain
Chimera/Founder Genetic Background:	129S6/SvEvTac
Current Genetic Background:	C57BL/6J (date recorded: Not provided)
Strain Description:	Mice carrying the Pparg ^{lox} allele were backcrossed to C57BL/6J for 12 generations.


Associated Images

Image 1


Description:

FIG. 1. Conditional and null PPARg alleles generated by gene targeting and Cre-mediated recombination. (a) Top, wild-type PPARg^w allele. Exons are indicated as solid rectangles. The location of the DNA fragment used for Southern blot hybridization is


Access Status


 This resource is publicly viewable.

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 Request from a repository
Primary contributor: [Magnuson Lab](#)

Resource Tags

mouse, mouse strain, Pparg, PPARgamma^{lox}
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Resource History & Actions

Approved on Mar 01, 2007

Last modified on Jun 19, 2008

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Related resources

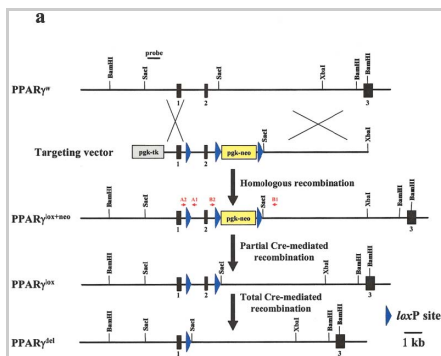
BCBC

No matching resources

Other Consortia

No matching resources

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



shown. Middle, diagram of the gene targeting vector. The vector contains a pgk-neo cassette, a pgk-HSVtk cassette, and three tandem loxP sequences (triangles). Two of the loxP sites flank neo, and the third is located between exons 1 and 2 in the PPAR gene. The PPAR^{lox+neo} allele was created by homologous recombination in ES cells. Bottom, the PPAR^{lox} and PPAR^{del} alleles were derived from PPAR^{lox+neo} mice by partial or total Cre-mediated recombination via microinjection of a Cre-expression plasmid into single-cell PPAR^{wlox+neo} embryos.

Reference:
11857800

Repositories

MMRRC

[Request via www.mmrc.org website](http://www.mmrc.org)

Stock #: 012035-MUH

Availability Notes: *Not provided*

Magnuson Lab

[Request this resource](#)

Stock #: VUMC - CG

Availability Notes: *Not provided*

Contact Information

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Associated Publications

No publications associated

Comments

There are no comments for this entry.

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