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Myt1Flox - Mouse Strain RES229**Mouse Information**

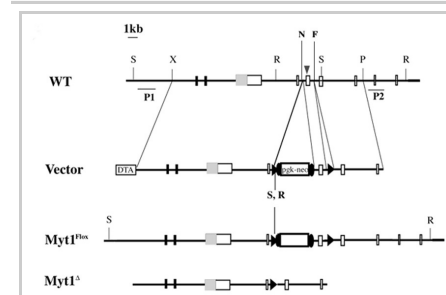
Common Name:	Myt1Flox
MGI Official Name:	Myt1 ^{tm1.1Ggu}
Description:	Two loxP sites flank exon 6 of Myt1b. The allele behaves as wild type allele without Cre-mediated deletion. Cre-mediated deletion creates null Myt1 allele. The homozygous null is neonatal lethal. Myt1 null pancreas has abnormal islet cell differentiation, ie. single cells produce multiple hormones. Pancreatic-specific Myt1 deletion results in glucose intolerance in males.
Categories:	Cre-lox floxed alleles

Genetic Alterations

1) Targeted Mutagenesis					
Type of Allele	Conditional Null				
Targeted Gene	Myt1 (myelin transcription factor 1) (Myt1 - NCBI GeneID:1100535)				
Targeted Allele	targeted mutation 1.1 (Myt1 ^{tm1.1Ggu} - MGI:3765056)				
Description of Targeting Vector	The gene target contains DTA as a negative selection marker and FRT-flanked pGK-neo as a positive selection marker. The target has an 8.2 kb 5' arm and a 4 kb 3' arm. The floxed region is 1 kb.				
Targeting Vector Genbank File	pMyt1_TV_constructed.gb				
Citations	<table border="1"> <thead> <tr> <th>PubMedID</th> <th>Citation</th> </tr> </thead> <tbody> <tr> <td>17928203</td> <td>Loss of Myt1 function partially compromises endocrine islet cell differentiation and pancreatic physiological function in the mouse. (<i>Mech Dev</i> 124: 898-910 (Added 2014-03-13 09:00:19.656583))</td> </tr> </tbody> </table>	PubMedID	Citation	17928203	Loss of Myt1 function partially compromises endocrine islet cell differentiation and pancreatic physiological function in the mouse. (<i>Mech Dev</i> 124 : 898-910 (Added 2014-03-13 09:00:19.656583))
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17928203	Loss of Myt1 function partially compromises endocrine islet cell differentiation and pancreatic physiological function in the mouse. (<i>Mech Dev</i> 124 : 898-910 (Added 2014-03-13 09:00:19.656583))				

Strain Information


Strain Type:	Mixed
Chimera/Founder Genetic Background:	129S6/SvEvTac
Current Genetic Background:	CD-1 (date recorded: 03/27/2015)
Strain Description:	Not provided

Associated Images**Image 1**


Description:
Exon 3 of the Myt1 gene was floxed. This creates a nonsense mutation in the Myt1 gene and is expected to produce a null allele.

Reference:
Not provided

Access Status

 This resource is publicly viewable.


Request this Resource


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Primary contributor: [Gu Lab](#)
 Co-contributed by:
 • [BCBC Mouse / ES Cell Core](#)

Resource Tags


mESC Core, mouse, mouse strain, Myt1Flox

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Resource History & Actions

Approved on Apr 22, 2008
 Last modified on Apr 29, 2008

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

Repositories

MMRRC

 Request via www.mmrrc.org website

Stock #: 030295-UNC

Availability Notes: *Not provided*

Contact Information

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Associated Publications

No publications associated

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