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**Myt1Flox - Mouse Strain RES229****Mouse Information**

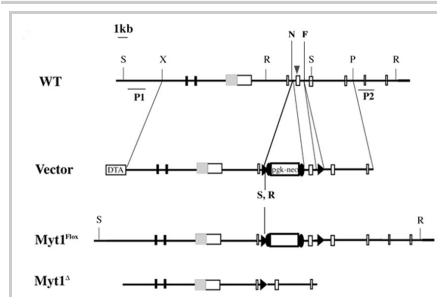
<b>Common Name:</b>	Myt1Flox
<b>MGI Official Name:</b>	Myt1 <sup>tm1.1Ggu</sup>
<b>Description:</b>	Two loxP sites flank exon 6 of Myt1b. The allele behaves as wild type allele without Cre-mediated deletion. Cre-mediated deletion creates null Myt1 allele. The homozygous null is neonatal lethal. Myt1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

**Genetic Alterations**

<b>1) Targeted Mutagenesis</b>					
<b>Type of Allele</b>	Conditional Null				
<b>Targeted Gene</b>	Myt1 (myelin transcription factor 1) (Myt1 - <a href="#">NCBI GeneID:1100535</a> )				
<b>Targeted Allele</b>	targeted mutation 1.1 (Myt1 <sup>tm1.1Ggu</sup> - <a href="#">MGI:3765056</a> )				
<b>Description of Targeting Vector</b>	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.				
<b>Targeting Vector Genbank File</b>	<a href="#">pMyt1_TV_constructed.gb</a>				
<b>Citations</b>	<table border="1"> <thead> <tr> <th>PubMedID</th> <th>Citation</th> </tr> </thead> <tbody> <tr> <td><a href="#">17928203</a></td> <td><a href="#">Loss of Myt1 function partially compromises endocrine islet cell differentiation and pancreatic physiological function in the mouse.</a> (<i>Mech Dev</i> <b>124</b>: 898-910 (Added 2014-03-13 09:00:19.656583))</td> </tr> </tbody> </table>	PubMedID	Citation	<a href="#">17928203</a>	<a href="#">Loss of Myt1 function partially compromises endocrine islet cell differentiation and pancreatic physiological function in the mouse.</a> ( <i>Mech Dev</i> <b>124</b> : 898-910 (Added 2014-03-13 09:00:19.656583))
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**Strain Information**


<b>Strain Type:</b>	Mixed
<b>Chimera/Founder Genetic Background:</b>	129S6/SvEvTac
<b>Current Genetic Background:</b>	CD-1 (date recorded: 03/27/2015)
<b>Strain Description:</b>	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**

 Request from a repository

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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**Related resources****BCBC**

No matching resources

**Other Consortia**

No matching resources

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

## Repositories

MMRRC

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

Stock #: 030295-UNC

Availability Notes: *Not provided*

## Contact Information

### Preferred Contact


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## Associated Publications

*No publications associated*

## Comments

*There are no comments for this entry.*

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