

This is an unpublished mouse strain. This mouse cell line was generated by RMCE in the Ptf1a[LCA] allele. Pancreata of this mouse line express both td.Tomato (a red fluorescent protein) and an N-terminal epitope tagged Strep/Flag (NSF) fusion of the transcription factor Ptf1a. This line may be used in a variety of applications such as FACS sorting of Ptf1a expressing cells, chromatin immunoprecipitation, and proteomic analyses.

Keywords: [Ptf1a^{tdTomato}](#) [Mgn](#) [fluorescent protein](#) [tdTomato](#)

[Expand](#)

Mouse Information

Common Name	Ptf1a ^{tdTomato}
Research Applications	<i>Not provided</i>
MMRRC ID	<i>Not provided</i>
Jackson Laboratories Stock No	<i>Not provided</i>
VCMR ID	MB
Additional Strain Information	The Ptf1a.tdTomato-NSF-p48.KO.hygro vector was made on a backbone of a basal exchange vector which contains a 4.105 kb sequence from the Ptf1a locus, inverted loxP sites, and a flanked (flanked by FRT) P _{gk} -Hygro cassette that is used for positive selection of ES cells after RMCE. Sequences for td.Tomato (a red fluorescent protein) and an N-terminal epitope tagged Strep/Flag (NSF) fusion of the transcription factor Ptf1a were cloned downstream of the Ptf1a ATG site.

Genetic Alteration


Mutation #1: RMCE Targeted Mutagenesis	
Type of Allele	Cassette Acceptor
Targeted Gene	Name: pancreas specific transcription factor, 1a Symbol: Ptf1a NCBI: 19213
Allele	Name: Ptf1a{tdTomato} Symbol: Ptf1a ^{tdTomato}
Description of Targeting Vector	<i>Not provided</i>
Vector Genbank File	<i>Not provided</i>
Allele Map	<i>Not Provided</i>
PCR Genotyping Protocol	Ptf1a.tdTomato_PCR_genotyping_protocol.docx

Type of Allele	Gene Replacement
Exchanged Cassette Gene Name	()
Exchanged Cassette Allele Name	Ptf1a{td.TOM}
Description of Exchange Vector	The Ptf1a.tdTomato-NSF-p48.KO.hygro vector was made on a backbone of a basal exchange vector which contains a 4.105 kb sequence from the Ptf1a locus, inverted loxP sites, and a flrtd (flanked by FRT) Pgk-Hygro cassette that is used for positive selection of ES cells after RMCE. Sequences for td.Tomato (a red fluorescent protein) and an N-terminal epitope tagged Strep/Flag (NSF) fusion of the transcription factor Ptf1a were cloned downstream of the Ptf1a ATG site.
Exchanged Cassette Genbank File	p48.tdtomatonsfp48.ko.hygro.gb
PCR Genotyping Protocol	<i>Not provided</i>
Citations	<i>Not provided</i>

Background Strain Information

Strain Type	Mixed
Chimera/Founder Genetic Background	129S6/SvEvTac
Current Genetic Background	C57BL/6
Number of Generations Backcrossed	<i>Not provided</i>
Strain Description	87.5% C57Bl6/J at cryopreservation Cryopreserved in 2011.

Attachment

 [Ptf1a.tdTomato.NSF-hygro.png](#) - Added on July 7, 2015 at 10:25 AM by [Mark Magnuson](#)

