

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	36462
<b>MMRRC Strain Name</b>	B6.129S6-Pdx1 <sup>tm2Mgn</sup> /Mmnc
<b>Gene Name(s)</b>	pancreatic and duodenal homeobox 1 (Pdx1)
<b>Breeding Protocol(s)</b>	Backcross to C57BL/6J
<b>Protocol Date</b>	6/27/13

### MMRRC #36462 PCR Reaction

**Thermal Cycler:**

Step 1: 94°C for 5 min  
 Step 2: 94°C for 30 sec  
 Step 3: 58°C for 30 sec  
 Step 4: 72°C for 45 sec  
 Step 5: Step 2 to 4 Cycles: 36  
 Step 6: 72°C for 7 min

Taq: **Apex and chromataq Buffer**

	<u><b>1X</b></u>
ddH <sub>2</sub> O	13
5X Buffer	5.0
25mM MgCl <sub>2</sub>	2
10mM dNTPs	0.5
10 uM Primer F	1
10 uM Primer R	1
Taq	0.5
DNA	2

Primers are 10uM with respect to each primer

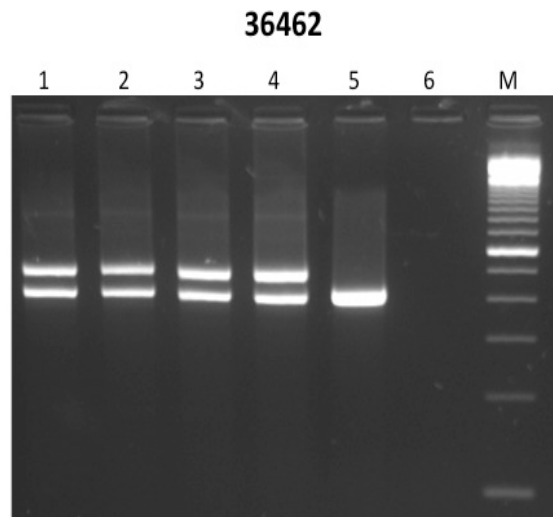
**Primer sequences 5' to 3':**

(Pdx1)-F (36462): TGAGCAATTCCAAGCAGCTGGA

(Pdx1)-R (36462): ACCTTGAGTCCTTCTGAAGT

**Bands:** WT: 426 bp  
 MUTANT: 481 bp

Run on 2% agarose gel in TAE.



Lane 1 - 4: Het; Lane 5: WT; Lane 6: ddH<sub>2</sub>O; M: 100 bp DNA ladder Invitrogen