

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	439
MMRRC Strain Name	STOCK <i>Pdx1^{tm1Cw}</i> /Mmnc
Gene Name(s)	Pancreatic and duodenal homeobox 1 (Pdx1)
Breeding Protocol(s)	Sib-mating
Protocol Date	11/18/13

MMRRC #439 PCR Reaction

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

Thermal Cycler:

Step 1: 94°C for 5 min
 Step 2: 94°C for 30 sec
 Step 3: 52°C for 30 sec
 Step 4: 72°C for 1 min
 Step 5: 32x from step 2 to step 4
 Step 6: 72°C for 7 min

Taq: Apex and Chromataq 5X Buffer

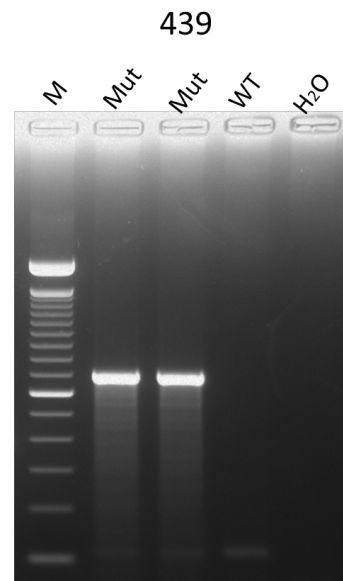
Primer sequences 5' to 3': Primers are 10 μM with respect to each primer.

NeoR (439): AGG TGA GAT GAC AGG AGA TC

PdxE (439): CAA GCC AGG GAG TTA AAT C

Bands expected: MUTANT ~660bp

Run on 1% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)