

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	440
MMRRC Strain Name	STOCK <i>Pdx1^{tm4Cvw}/Mmnc</i>
Gene Name(s)	Pancreatic and duodenal homeobox 1 (Pdx1)
Breeding Protocol(s)	Sib-mating
Protocol Date	7/29/13

MMRR #440 PCR Reaction

	1X
ddH ₂ O	13.5
5X Buffer	5.0
25 mM MgCl ₂	1.5
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 45 sec

Step 3: 55°C for 45 sec

Step 4: 72°C for 60 sec

Step 5: Step 2 to 4 Cycles: 36

Step 6: 72°C for 10 min

Taq: Apex and Chromataq 5X Buffer

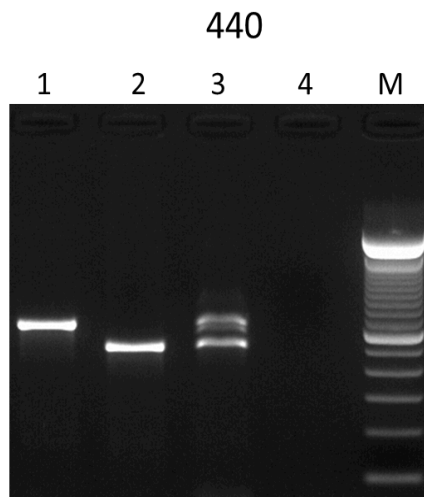
Primer sequences 5' to 3': Primers are 10 μM with respect to each primer.

Pdx (440) F27: CTGAGCAGAGGAAGCAGAAAGC

Pdx (440) B32: TTGCCAAGCCCTAATGAAAGAC

Bands expected: MUTANT ~ 700 bp
WT 488 bp

Run on a 2% agarose



Lane 1: Hom; Lane 2: WT; Lane 3: Het; Lane 4: H₂O;
M: 100 bp DNA ladder Invitrogen