

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	59
MMRRC Strain Name	B6.129X1- <i>Ptprcap</i> ^{tm1Tkda} /Mmnc
Gene Name(s)	Protein tyrosine phosphatase, receptor type, C polypeptide-associated protein (Ptprcap)
Breeding Protocol(s)	Intra-strain Mating
Protocol Date	9/3/13

MMRRC #59 PCR Reaction

	1X
ddH ₂ O	13
5X Buffer	5.0
25mM MgCl ₂	2
10mM 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: 69°C for 30 sec
 Step 4: 72°C for 30 sec
 Step 5: 33x from step 2 to step 4
 Step 6: 72°C for 7 min

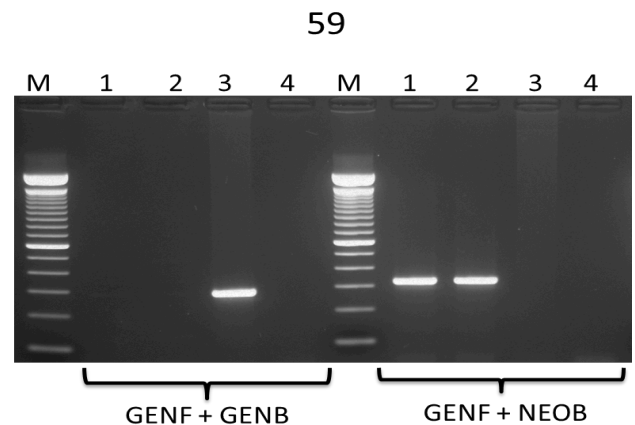
Taq: Apex and Chromataq 5X Buffer

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

GENF: ACA GGG TTG GGT TGA AGG TGA G
 GENB: AGC AAG AGC AGC AGG ACA ATG G
 NEOB: TGA CCG CTT CCT CGT GCT TTA C

Bands expected: GENF + GENB: WT 283 bp
 GENF + NEOB: Mut 321 bp

Run on 2 % agarose gel in TAE.



Lane 1, 2: Homo; Lane 3: WT; Lane 4: H₂O
 M: 100 bp DNA ladder Invitrogen