

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	341
MMRRC Strain Name	C3H.Cg- <i>Tcrb</i> ^{tm1^{Mom}} /Mmnc
Gene Name(s)	T-cell receptor beta chain (<i>Tcrb</i>)
Breeding Protocol(s)	Intra-strain Mating
Protocol Date	9/3/13

MMRRC #341 PCR Reaction

Genotyping for this strain includes Neo only

	1X
ddH ₂ O	13
5X Buffer	5.0
25 mM MgCl ₂	2
10 mM dNTPs	0.5
10 μM Primer Forward	1.0
10 μM Primer Reverse	1.0
Taq	0.5
DNA	2

Thermal Cycler:

Step 1: 94°C for 5 min
 Step 2: 94 °C for 1 min
 Step 3: 61 °C for 1 min
 Step 4: 72°C for 1 min,
 Step 5: Step 2 to 4; Cycles: 35
 Step 6: 72°C for 7 min

Taq: Apex and Chromataq 5X Buffer

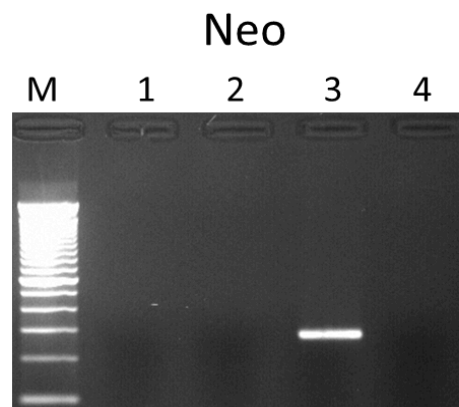
Primer sequences 5' to 3': Primers are 10 μM with respect to each primer.

Neo1: CTT TTT GTC AAG ACC GAC CTG TCC G

Neo2: CTC GAT GCG ATG TTT CGC TTG GTG

Bands expected: Mut (Neo⁺) 290 bp
 WT no band

Run on 1.0% agarose gel in TAE.



Lane 1, 2: WT; Lane 3: Neo+; Lane 4: H₂O;
 M: 100 bp DNA ladder (Invitrogen)