

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	430
MMRRC Strain Name	B10.Cg- <i>H2^k</i> <i>Cd74^{tm2Liz}</i> /Mmnc
Gene Name(s)	CD74 antigen (Cd74)
Breeding Protocol(s)	Sib-mating
Protocol Date	11/4/13

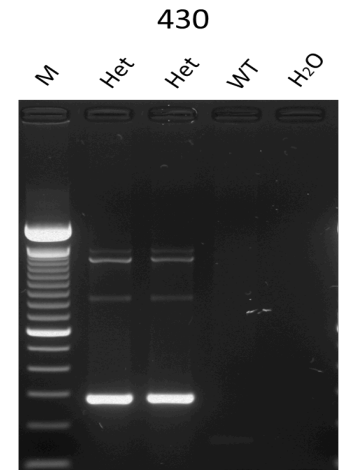
MMRRC #430 PCR Reaction

	1X
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: 65°C for 30 sec
 Step 4: 72°C for 45 sec
 Step 5: 32x from step 2 to step 4
 Step 6: 72°C for 7 min

Taq: Apex and Chromataq 5X Buffer



Primers: Com-F (431) + Mut-R (431)
M: 100 bp DNA ladder (Invitrogen)

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

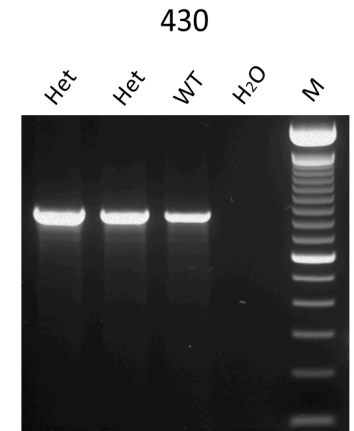
Com-F (431): CCCACCGAGGCTCCACCTAAAG

Mut-R (431): CAGCGTGCGGAGAAGAAGAGA

WT-R (431): CTGGGCCAGGATCTCAGCAGA

Bands expected: WT: Com-F (431) + WT-R (431): 862 bp
 Mut: Com-F (431) + Mut-R (431), ~280 bp; WT 1.3 kb
 (inefficient)

Run on 2% agarose gel in TAE.



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