

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	429
MMRRC Strain Name	B6.129S- <i>Cd74^{tm2Liz}</i> /Mmnc
Gene Name(s)	CD74 antigen (Cd74)
Breeding Protocol(s)	Sib-mating (homo x homo)
Protocol Date	11/18/2013

MMRRC# 429 PCR Reaction

	1X	
DNA	1.0	Thermal Cycler:
5X Buffer	5.0	94°C for 30 sec
10mM dNTPs	0.5	65°C for 30 sec
20 uM Primer F/R	1.0	72°C for 120 sec
Taq	1.0	10x
ddH ₂ O	14.5	94°C for 30 sec
25mM MgCl ₂	2.0	65°C for 30 sec
		72°C for 60 sec
		20x

NOTE: Run two, 2-primer reactions: (RG2WTF & RG2WTR) and (RG2WTF & RG2MTR). Combine to run gel.

Taq: **Apex and Chromataq 10X Buffer**

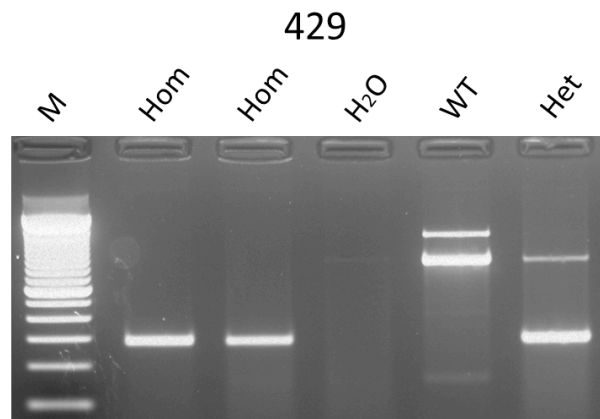
Bands: MUTANT: 280bp
WT: 860bp

Primers are 10uM with respect to each primer (20uM total).

Primer sequences 5' to 3':

RG2WTF: CCCACCGAGGCTCCACCTAAAG
RG2WTR: CAGCGTGCGGAGAAGAAGAGAC
RG2MTR: CTGGGCCAGGATCTCAGCAGA

Run on 2.0% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)