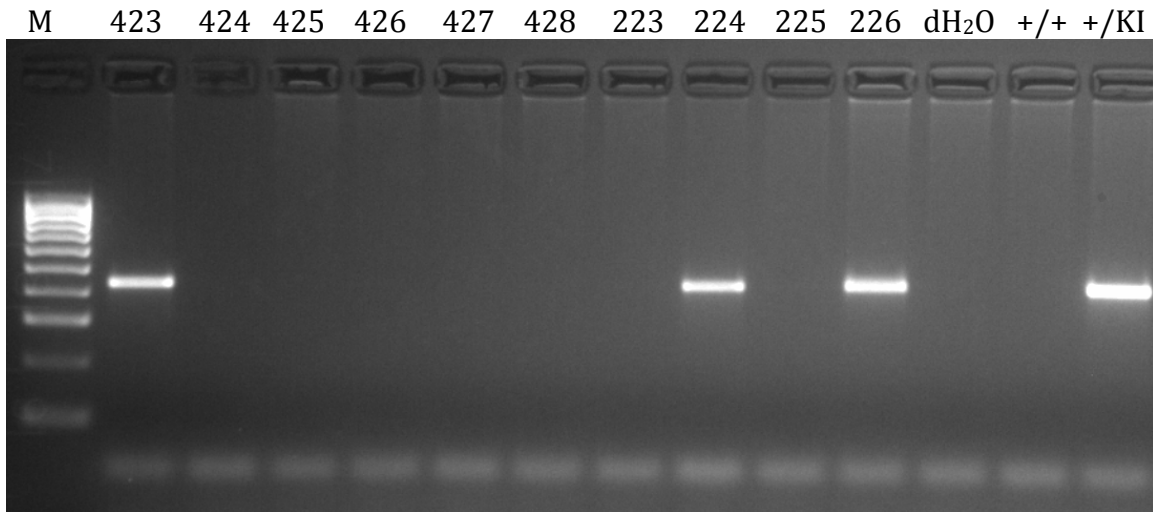
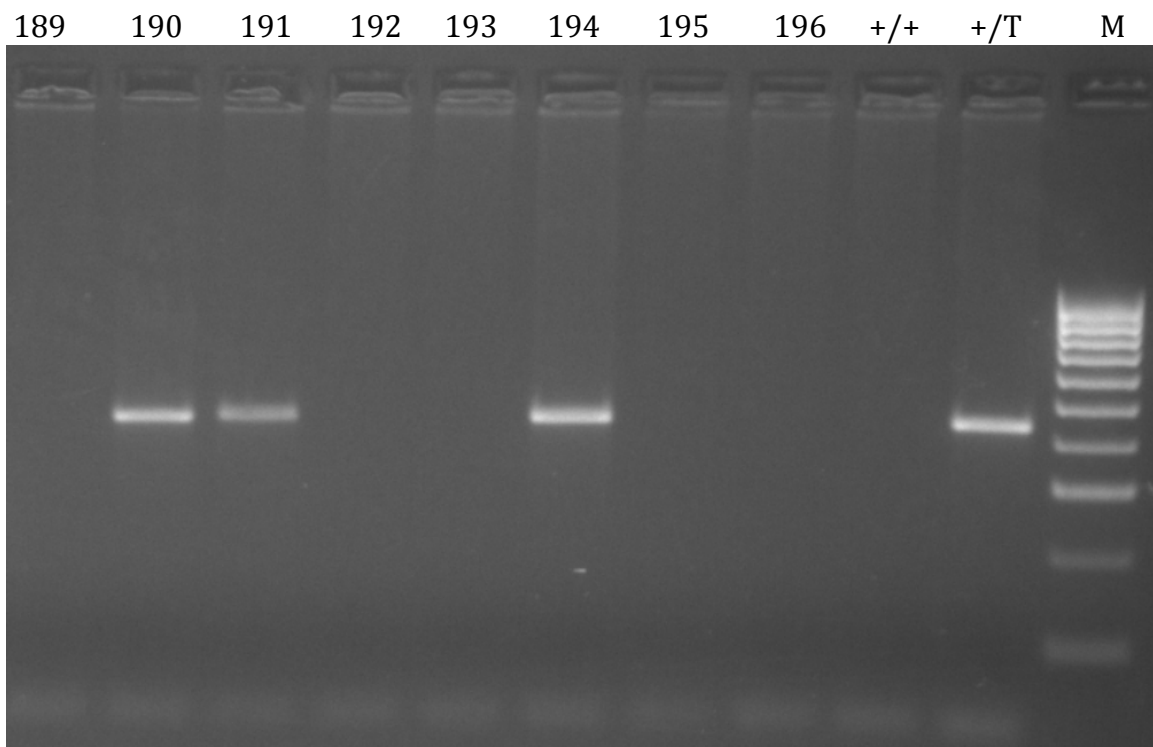


Mb1 Cre PCR



CD23 Cre PCR



3% Agarose gel. (Bioline Agarose)
Samples and controls 20ul loaded.
M=Bioline HyperLadder 100bp 5ul loaded
+/+= WT
T= Transgene
KI= Knock in

GENOTYPING BY PCR PROTOCOL FORMNAME OF PCR: Mb1 Cre KI and CD23 Cre T 1hr 2mins

Reagents / Constituents	Volume (μ l)
Water	13.4
5x Mytaq Red Taq Buffer (contains dNTPs and 15mM MgCl ₂)	4
Primer 1 (stock concentration is 5 μ M) Name: hCre dir	1.0
Primer 2 (stock concentration is 5 μ M) Name: hCre rev	1.0
Mytaq Polymerase	0.2
DNA Sample	0.5 – 1
TOTAL VOLUME OF REACTION:	~20 μl

Comments on protocol (e.g. different concentration of MgCl₂, etc): Can make up 10x, 20x, etc reaction volumes.
 Aliquot ~ 18.5ul of your reaction mix. Add your DNA sample.
 Looking for the Knock in (KI) for Mb1 Cre or Transgene (T) for CD23 Cre.

Strategy: MyTaq Red Mb1 Cre and CD23 Cre

Steps	Temp ($^{\circ}$ C.)	Time(min)	# of Cycles
1. Initiation/Melting HOT START? CHECK HERE []	94	3	1
2. Denaturation	94	15sec	
3. Annealing	58	15sec	30
4. Elongation	72	10sec	
5. Strand completion (i.e. 72 $^{\circ}$ C, 10 min)	72	10sec	1
6. Finish (i.e. 4 $^{\circ}$ C, indefinite)	4	n/a	n/a

Electrophoresis Protocol:

% Agarose: 2.5-3.0% Volts : 140

Estimated Running Time (min): 40

Number	Band (kb)	Genotype
1	450bp	Mb1Cre KI
2	450bp	CD23 Cre T
3		

PASTE GEL PICTURE HERE, CLEARLY
 INDICATING LADDER, WATER CONTROL, DNA
 CONTROL, & DIAGNOSTIC SAMPLES

(if available)