

## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	16978
<b>MMRRC Strain Name</b>	B6.Cg-Tg(H2-K-II21)5Wjl/Mmnc
<b>Gene Name(s)</b>	Histocompatibility 2, K region (H2-K Mouse/Human) Interleukin 21 (II21)
<b>Breeding Protocol(s)</b>	Sib-mating
<b>Protocol Date</b>	11/4/13

### MMRRC# 16978 PCR Reaction

	<u>1X</u>
DNA	1.0
10X Buffer	5.0
10mM dNTPs	1.0
20 uM Primer 1 & 2	1.0
Taq	1.0
ddH <sub>2</sub> O	14.0
25mM MgCl <sub>2</sub>	2.0
Total	25.0

Denaturing: 95°C for 30 sec  
 Annealing Temp.: 62°C for 30 sec  
 Extension: 72°C for 30 sec  
 Cycles: 34

Taq: **Apex and Chromataq Buffer**

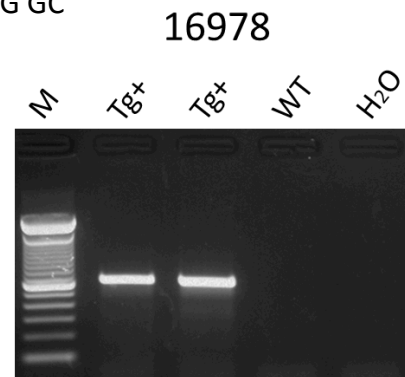
**Bands:** Tg<sup>+</sup>: ~650bp

**Primer sequences 5' to 3':** Primers are 10uM with respect to each primer (20uM total).

Forward: 5' ATA CGC GTC GAC AGA CCA AGG TCT AGC TCT ACT G

Backward: 3' TCC CCC GGG TCA ATG GTG ATG GTG ATG ATG GC

Run on 2% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)