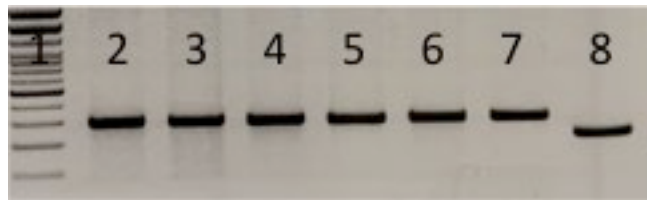


## MMRRC UNC – Genotyping Protocol

<b>MMRRC Strain ID</b>	43841
<b>MMRRC Strain Name</b>	B6.129X1- <i>Ptpn11</i> <sup>tm1Yan</sup> /Mmnc
<b>Gene Name(s)</b>	protein tyrosine phosphatase, non-receptor type 11
<b>Breeding Protocol(s)</b>	Sib-mating
<b>Protocol Date</b>	11/4/2022

### PCR Reaction

	<b><u>1X</u></b>
ddH <sub>2</sub> O	12.5
5X Buffer	5
25mM MgCl <sub>2</sub>	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
Taq	1
DNA	2



#### **Thermal Cycler:**

Step 1: 94C, 5min  
 Step 2: 94C, 45sec  
 Step 3: 55C, 45sec  
 Step 4: 72C, 60sec  
 Step 2 to 4 Cycles: 35  
 Step 5: 72C, 7min

1. 100bp Ladder (Invitrogen)
2. Homozygous Sample
3. Homozygous Sample
4. Homozygous Sample
5. Homozygous Sample
6. Homozygous Sample
7. Homozygous Sample
8. Wild-type Control

#### **Taq: Apex Taq**

Bands: WT: 300bp    MUTANT: 420bp

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

Ptpn(43841)F: TAG CTG CTT TAA CCC TCT GTG T

Ptpn(43841)R: CAT CAG AGC AGG CCA TAT TCC