

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	11635
MMRRC Strain Name	B6.129P2- <i>Pde1b</i> ^{tm1Dgen} /Mmnc
Gene Name(s)	phosphodiesterase 1B, Ca ²⁺ -calmodulin dependent (<i>Pde1b</i>)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	10/26/16

MMRRC #11635 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min

Step 2: 94°C for 45 sec

Step 3: 60°C for 45 sec

Step 4: 72°C for 90 sec

Step 2 to 4 Cycles: 35

Step 5: 72° for 7 min

Taq: **Apex Taq and Chromataq 5X Buffer**

Bands: WT: 583bp
 MUTANT: 430bp

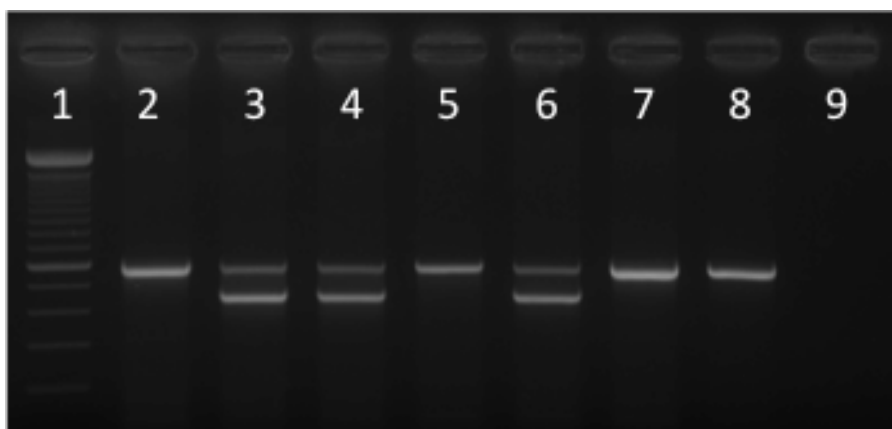
	<u>1X</u>
ddH ₂ O	12
5X Buffer	5.0
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
10uM Primer 3	1
Taq	0.5
DNA	2

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

NIH1045(11635)GS1: AGTTTTCTGGAGGCCTTGGAGACAG

NIH1045(11635)GS2: CCCATTGCTCACTTGGTCTGAATG

NIH1045(11635)Neo: GGGTGGATTAGATAAATGCCTGCTCT



1. 100bp Marker (Invitrogen)
2. Wild-type Sample
3. Heterozygous Sample
4. Heterozygous Sample
5. Wild-type Sample
6. Heterozygous Sample
7. Wild-type Sample
8. Wild-type Control
9. Negative Control