

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	43683
MMRRC Strain Name	B6J.B6N- <i>Dlg4</i> ^{tm1Blr} /Mmnc
Gene Name(s)	discs large MAGUK scaffold protein 4 (<i>Dlg4</i>)
Breeding Protocol(s)	Sib-mating
Protocol Date	6/25/18

MMRRC #43683 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min
 Step 2: 94°C for 30 sec
 Step 3: 60°C for 30 sec
 Step 4: 72°C for 30 sec
 Step 2 to 4 Cycles: 30
 Step 5: 72°C for 7 min

	1X
ddH ₂ O	13
5X Buffer	5
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
Taq	0.5
DNA	2

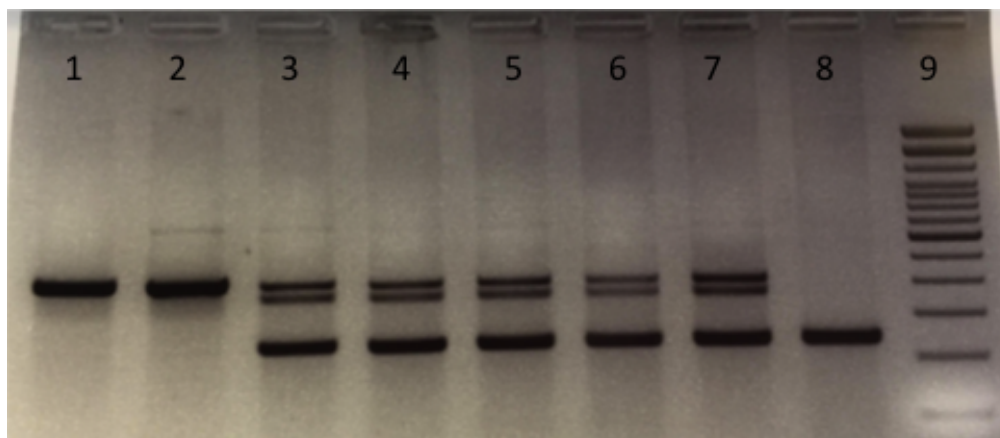
Taq: **Apex Taq and Chromataq 5X Buffer**

Bands: WT: 238bp MUTANT: 417bp

Note: Heterozygous samples have a non-specific band at ~375bp.

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

Dlg4(43683)P1 CAAATGTATGCCAAGGTGAGG
Dlg4(43683)P2 GAACAGCAGATGGTAAAGAGTGG



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