

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	11602
MMRRC Strain Name	B6.129P2- <i>B3galt2</i> ^{tm1Dgen} /Mmnc
Gene Name(s)	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2 (B3galt2)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	10/24/14

MMRRC #11602 PCR Reaction

	<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

Thermal Cycler:

Step 1: 94°C for 5 min

Step 2: 94°C for 45 sec

Step 3: 61°C for 45 sec

Step 4: 72°C for 60 sec

Step 2 to 4 Cycles: 35

Step 5: 72°C for 7 min

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

Bands: MUTANT: 403bp
 WT: 216bp

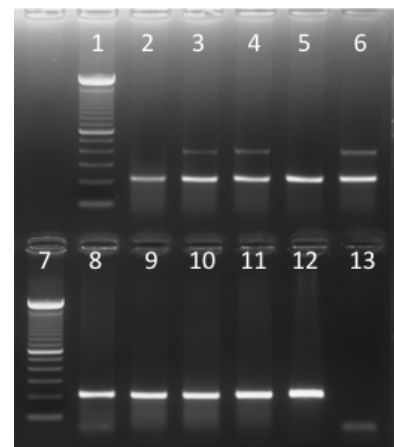
Primer sequences 5' to 3':

(11602)GS1: CAAGTTGAGAGTTGATCCTGTGCCC

(11602)GS2: AGTTTGGGGTGTGCGATACCTGCCTG

(11602)Neo: GGGTGGGATTAGATAAATGCCTGCTCT

Run on 2% agarose gel.



- | | |
|------------------------|----------------------|
| 1. 100bp Marker | 8. Wild-type Sample |
| 2. Wild-type Sample | 9. Wild-type Sample |
| 3. Heterozygous Sample | 10. Wild-type Sample |
| 4. Heterozygous Sample | 11. Wild-type Sample |
| 5. Wild-type Sample | 12. Wild-type Sample |
| 6. Heterozygous Sample | 13. Negative Control |
| 7. 100bp Marker | |