

Strain Name: *Itgae KO*

Allele: **Itgaetm1Cmp**

Method: **Standard PCR**

Expected Results: **Mutant = 500 bp**  
**Heterozygote = 245 bp and 500 bp**  
**Wild type = 245 bp**

#### Protocol Primers

Primer	5' Label	Sequence 5' --> 3'	3' Label	Primer Type
oIMR0092	-	AAT CCA TCT TGT TCA ATG GCC GAT C	-	-neo
oIMR8011	-	AAA GAG GCC CAC ACT TTC AA	-	Wild type Forward
oIMR8012	-	TGG CTC AGC AGA GCT TCA TA	-	Wild type Reverse

#### Reaction/Components

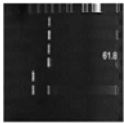
Reaction Component	Volume (µl)	Final Concentration	Total Volume (µl)
ddH2O	3.60	-	3.60
10 X AB PCR BufferII	0.96	0.80 X	0.96
25 mM MgCl2	0.96	2.00 mM	0.96
2.5 mM dNTP	0.96	0.20 mM	0.96
20 uM oIMR8011	0.60	1.00 uM	0.60
20 uM oIMR8012	0.60	1.00 uM	0.60
20 uM oIMR0092	0.60	1.00 uM	0.60
5 mM DNA Loading Dye	1.66	0.69 mM	1.66
5 U/ul Taq DNA Polymerase	0.06	0.03 U/ul	0.06
DNA			

#### Cycling

Step #	Temp °C	Time	Note
1	94	3 min	-
2	94	30 sec	-
3	62	1 min	-
4	72	1 min	repeat steps 2-4 for 35 cycles
5	72	2 min	-
6			

Gel Image

Image	Image file
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Gel Information: Separated by gel electrophoresis on a 1.5% agarose gel.