

RMRC Genotyping Protocol-PCR

No.	RMRC13407	Strain Name	C57BL/6- <i>Uap111</i> ^{em1Yen} /Narl
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A. Primer

	Primer name	Sequence
1	arm500-uap111-GT Fw	5'-GGCCAGATCCTAGGATTCAAAGTCC -3'
2	arm500-uap111-GT Rev	5'-ATTCCACCACCTGGGGGAC-3'

B. Genomic extraction :

- Phenol-Chloroform extraction commercial extraction kit _____
 Lysis buffer _____ other _____

C. Reaction Conditions: for Uap111 wt allele, Uap111 delta E2 allele

Component	Concentration		Volume		Step	Temperature, °C	Time, min:sec	Number of Cycles
H ₂ O			9.875	μl	1	94	2:00	1
Ampliqon Taq DNA Polymerase 2x Master Mix RED	2X		12.5	μl	2	94	00:15	30
						62	00:30	
DMSO			0.625	μl	3	68	2:00	
						4	pause	
Primer 1	arm500-uap111-GT Fw	10 μM	1	μl				
Primer 2	arm500-uap111-GT Rev	10 μM	1	μl				
DNA	--		1	μl				
Total			25	μl				

The information of Taq, including company name and catalog number :

Taq DNA Polymerase 2x Master Mix RED, 2 mM MgCl₂; Ampliqon #A190303

D. PCR Product

	Product size		Target region
1	Uap111-wt	1928 bp	
2	Uap111 delta E2	1721 bp	

E. Gel Photo

