RMRC Genotyping Protocol-PCR

No.	RMRC13076	Strain Name	C57BL/6-Tg(UBC-tdTomato)1Narl/Narl

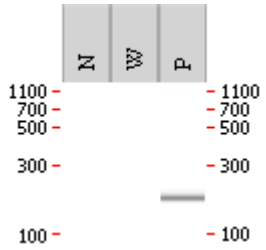
A. Primers

No.	Primer name	Sequence
1	DsRedF	GTGAAGCACCCCGCCGACAT
2	DsRedR	CTGCATTACGGGGCCGTCGG

B. Reaction Conditions

Component	Concentration	Volume	Step	Tempera-ture, °C	Time, sec	Number of cycles
H_2O	–	15.4 µl	1	94	180	1
PCR buffer	10 x	2 µl	2	94	30	35
dNTP	10 mM	0.4 µl	3	60	30	35
Primer 1	10 µM (ρmol/µl)	0.5 µl	4	72	30	35
Primer 2	10 µM (ρmol/µl)	0.5 µl	5	72	180	1
gDNA	50-250 ηg/µl	1 µl				
Taq	5 U/µl	0.2 µl				
Mg^{2+}	mM	µl				
Total		20 µl				

C. PCR Product

No.	Primer set		Product size	Target region
1	DsRedF	DsRedR	195 bp	DsRed
2			bp	

D. Gel Photo