

RMRC Genotyping Protocol-PCR

No.	RMRC13149	Strain Name	C57BL/6-Tg(aP2-HMOX1)3hotg
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A. Primer

	Primer name	Sequence
1	HO-1-5'-Tg	5'-ATTGCCAGAAAGCCCTGGACC-3'
2	pBS aP2 promoter polyA-3'-1	5'-GATCCGAATTCGCCCTATAG-3'

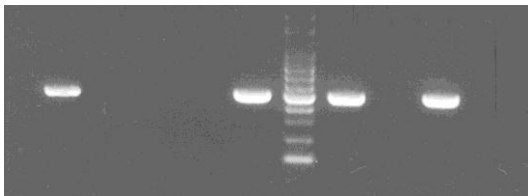
B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--		22.52	μl	1	94	300	35
PCR buffer	10x		3	μl	2	94	30	
dNTP	25	mM	0.48	μl	3	50	30	
Primer 1	20	μM	0.6	μl	4	72	30	
Primer 2	20	μM	0.6	μl	5	72	420	
DNA	50 ng		2	μl	6			
Taq		U/μl	0.8	μl	7			
Mg ²⁺		mM		μl	8			
Total			30	μl	9			

C. PCR Product

	Primer set		Product size	Target region
1	HO-1-5'-Tg	pBS aP2 promoter polyA-3'-1	約 500 bp	promoter

D. Gel Photo



備註: 同一胎有 band 是 Tg, 沒有 band 是 B6. 無法分辨 hemi 跟 homo.