

RMRC Genotyping Protocol-PCR

No.	RMRC13108	Strain Name	B6.129-Mcl-1 ^{tm1(130)Yen}
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A. Primer

	Primer name	Sequence
1	P3	5-TCTTCCCTCTTCCCGCACGG-3
2	P4	5-GGAAGTCCTCGCCTGCGTCA-3
3	P5	5-GATCCGTCCTCGCCTGGAAT-3

B. Reaction Conditions

Component	Concentration		Volume		Step	Tempera-ture, °C	Time, sec	Number of Cycles
H ₂ O	--		14.5	μl	1	94	300	1
PCR buffer	10x		2.5	μl	2	94	60	40
dNTP	2	Mm	2.5	μl	3	60	60	40
Primer 1	10	μM(ρmol/μl)	1.8	μl	4	72	90	40
Primer 2	10	μM(ρmol/μl)	1.6	μl	5	72	600	1
Primer 3	10	μM(ρmol/μl)	0.6		7	4	-	-
DNA	--		1	μl	8			
Taq	2	U/μl	0.25	μl	9			
DMSO	100%		2.5	μl				
Total			25	μl				

C. PCR Product

	Primer set		Product size	Target region
1	P3	P4	825 bp	First exon and first intron of the Mcl-1 gene (wt)
2	P3	P5	900 bp	First exon and first intron of the Mcl-1 gene (sc)

D. Gel Photo

