

RMRC Genotyping Protocol-PCR

No.	RMRC13112	Strain Name	B6.129-Mcl-1 ^{tm2(6-4)Yen}
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A. Primer

	Primer name	Sequence
1	P6	5-CTGCGGCGTCCGACCATG-3
2	P7	5-CTCTCCCGGCTCTAGAGCAG-3

B. Reaction Conditions

Component	Concentration		Volume		Step	Tempera- ture, °C	Time, sec	Number of Cycles
H ₂ O	--		15.25	μl	1	94	300	1
PCR buffer	10x		2.5	μl	2	94	60	40
dNTP	2	Mm	2.5	μl	3	57	60	40
Primer 1	10	μM(ρmol/μl)	0.5	μl	4	72	90	40
Primer 2	10	μM(ρmol/μl)	0.5	μl	5	72	600	1
DNA	--		1	μl	6	4	-	-
Taq	2	U/μl	0.25	μl	7			
DMSO	100%		2.5	μl	8			
Total			Total	2 5	9			

C. PCR Product

	Primer set		Product size	Target region
1	P6	P7	850 bp	First intron of the Mcl-1 gene (wt)
2	P6	P7	925 bp	Loxp site in first intron of the Mcl-1 gene (loxP)

D. Gel Photo

