

RMRC Genotyping Protocol-PCR

No.	RMRC13372	Strain Name	C57BL/6-Tg(Eno2-creERT2,-emGFP/RFP,-Sesn2)35DIY/Narl
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A. Primer

	Primer name	Sequence
1	Cre283F	5'-CTAAACATGCTTCATCGTCGGTC-3'
2	Cre844B	5'-TCTGACCAGAGTCATCCTTAGCG-3'
3	GAPDH (F)	5'-AGAGACAGCCGCATCTTCTTG-3'
4	GAPDH (R)	5'-CGACCTTCACCATCTTGTCTATGA-3'

B. Reaction Conditions

Component	Concentration	Volume	Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--	10.8 μ l	1	95	2 min	1
PCR buffer	10x	1.5 μ l	2	95	35 sec	35
dNTP	10 mM	0.3 μ l	3	60	35 sec	
Primer 1	20 μ M(μ mol/ μ l)	0.3 μ l	4	72	50 sec	
Primer 2	20 μ M(μ mol/ μ l)	0.3 μ l	5	72	10 min	1
gDNA	50~250 ng/ μ l	0.5 μ l	6			
Taq	5 U/ μ l	0.3 μ l	7			
Total		15 μ l	8			

C. PCR Product

	Primer set		Product size	Target region
1	Cre280F	Cre844B	562 bp	
2	GAPDH(F)	GAPDH(R)	236 bp	

D. Gel Photo

