

RMRC Genotyping Protocol-PCR

No.	RMRC13077	Strain Name	C57BL/6-Tg(Elas-CreER)26Cns
	RMRC13078		C57BL/6-Tg(Elas-CreER)49Cns

A. Primer

	Primer name	Sequence
1	Ela-CreER (F) 1540	GTCGACTTGGGTAACTGAG
2	Ela-CreER (R) 1540	GTTCTGAACGCTAGAGCCTG

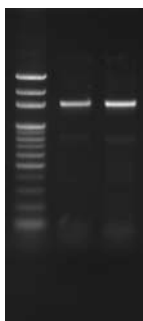
B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--		13.7	μl	1	95	5'	
PCR buffer	10x		2	μl	2	95	30"	35
dNTP	2.5	mM	2	μl	3	59	30"	35
Primer 1	20	μM(μmol/μl)	0.5	μl	4	72	1'	35
Primer 2	20	μM(μmol/μl)	0.5	μl	5	72	10'	
DNA	100 ng/μl		1	μl	6	4	hold	
Taq	2	U/μl	0.3	μl	7			
Mg ²⁺	--	mM	--	μl	8			
Total			20	μl	9			

C. PCR Product

	Primer set		Product size	Target region
1	Ela-CreER (F) 1540	Ela-CreER (R) 1540	1500 bp	
2			bp	

D. Gel Photo



[Marker Size (Large -> Small):3K, 2K, 1.5K, 1K, 900bp, 800bp, 700bp, 600bp, 500bp, 400bp, 300bp, 200bp, 100bp]