

RMRC Genotyping Protocol-PCR

No.	RMRC23002	Strain Name	SD-Tg(UBC-cre/ERT2)7Narl
-----	-----------	-------------	--------------------------

A. Primer

	Primer name	Sequence
1	Cre283F	CTAAACATGCTTCATCGTCGGTC
2	Cre844B	TCTGACCAGAGTCATCCTTAGCG

B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	–		15.4	μl	1	94	180	1
PCR buffer	10x		2	μl	2	94	30	30
dNTP	10	mM	0.4	μl	3	55	30	
Primer 1	10	μM(ρmol/μl)	0.5	μl	4	72	30	
Primer 2	10	μM(ρmol/μl)	0.5	μl	5	72	180	1
DNA	–		1	μl	6			
Taq	5	U/μl	0.2	μl	7			
Mg ²⁺	–	mM	–	μl	8			
Total			20	μl	9			

C. PCR Product

	Primer set		Product size	Target region
1	Cre283F	Cre844B	560 bp	Cre
2			bp	

D. Gel Photo

