

## RMRC Genotyping Protocol-PCR

No.	RMRC13155	Strain Name	C57BL/6-Cd164 <sup>tm1c(GEMMS)Narl</sup>
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### A. Primers

No.	Primer name	Sequence
1	Cd164NF	GTAAATATGATAGGCAGATGGTCTTAGCAG
2	Cd164NR	TCAGCCAATCCTTCACAAGACTGA

### B. Reaction Conditions

Component	Concentration	Volume	Step	Temperature, °C	Time, sec	Number of Cycles
H <sub>2</sub> O	–	10.8 μl	1	94	180	1
PCR buffer	10 x	1.5 μl	2	94	30	35
Formamide	–	0.5 μl	3	60	30	35
dNTP	10 mM	0.3 μl	4	72	30	35
Primer 1	20 μM (μmol/μl)	0.3 μl	5	72	180	1
Primer 2	20 μM (μmol/μl)	0.3 μl				
gDNA	50-250 ng/μl	1 μl				
Taq	5 U/μl	0.3 μl				
Total		15 μl				

### C. PCR Product

No.	Primer set		Product size	Target region
1	Cd164NF	Cd164NR	370 bp	Wildtype
2	Cd164NF	Cd164NR	470 bp	Mutant

### D. Gel Photo

