

## RMRC Genotyping Protocol-PCR

No.	RMRC13344	Strain Name	C57BL/6- <i>Dusp8<sup>tm1b(GEMMS)</sup>Narl</i> /Narl
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### A. Primers

No.	Primer name	Sequence
1	Dusp8NF	AGGGGCACAGGATCTGATAGGCACT
2	Dusp8KF	CATGCCTTGCCCATGGTCACTGAGT
3	Dusp8KR	GATCCTTCTGTGTTTGCCTCCTGGC

### B. Reaction Conditions

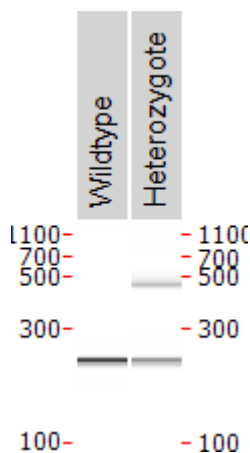
Component	Concentration	Volume	Step	Temperature, °C	Time, sec	Number of Cycles
H <sub>2</sub> O	–	5.6 μl	1	94	80	1
Primer 1	20 μM (pmol/μl)	0.3 μl	2	94	15	40
Primer 2	20 μM (pmol/μl)	0.3 μl	3	60	15	40
Primer 3	20 μM (pmol/μl)	0.3 μl	4	68	30	40
gDNA	50-250 ng/μl	1 μl	5	68	60	1
OneTaq*	2X Master Mix	7.5 μl				
Total		15 μl				

\*M0488 OneTaq Hot Start Quick-Load 2X Master Mix with Standard Buffer from New England Biolabs.

### C. PCR Product

No.	Primer set		Product size	Target region
1	Dusp8NF	Dusp8KR	225 bp	Wildtype
2	Dusp8KF	Dusp8KR	450 bp	Mutant

### D. Gel Photo



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