

## RMRC Genotyping Protocol-PCR

No.	RMRC13346	Strain Name	C57BL/6N- <i>Tagln2<sup>tm1aNarl</sup>/Narl</i>
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### A. Primers

No.	Primer name	Sequence
1	Tagln2LF	CTCTGGGGCTTGACGAACACGAGTT
2	Tagln2LR	GCCCCATCTCCCTGAAAGATCTCCT

### B. Reaction Conditions

Component	Concentration	Volume	Step	Temperature, °C	Time, sec	Number of Cycles
H <sub>2</sub> O	–	5.9 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
gDNA	50-250 ng/μl	1 μl	4	68	30	40
LongAmp*	2X Master Mix	7.5 μl	5	68	60	1
Total		15 μl				

\*M0533 LongAmp Hot Start Taq 2X Master Mix from New England Biolabs.

### C. PCR Product

No.	Primer set		Product size	Target region
1	Tagln2LF	Tagln2LR	397 bp	Wildtype
2	Tagln2LF	Tagln2LR	500 bp	Mutant

### D. Gel Photo

