

RMRC Genotyping Protocol-PCR

No.	RMRC13362	Strain Name	C57BL/6N- <i>Trak1^{tm1aNarl}/Narl</i>
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A. Primers

No.	Primer name	Sequence
1	Trak1LF	ATCTGAAGACATCCTGATTGAGCTTG
2	Trak1LR	ACGTCGTCCTCTTGGTGCATCTCTA

B. Reaction Conditions

Component	Concentration	Volume	Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	–	8.9 μl	1	94	150	1
Primer 1	20 μM (μmol/μl)	0.3 μl	2	94	30	10
Primer 2	20 μM (μmol/μl)	0.3 μl	3	63	30	10
gDNA	50-250 ng/μl	0.5 μl		–.5/cycle		
Taq*	2X Master Mix	10 μl	4	72	30	10
			5	94	30	30
			6	58	30	30
			7	72	30	30
Total		20 μl	8	72	60	1

* ADPMX02-100 ARROWTEC 2X Taq Master Mix.

C. PCR Product

No.	Primer set		Product size	Target region
1	Trak1LF	Trak1LR	200 bp	Wildtype
2	Trak1LF	Trak1LR	300 bp	Mutant

D. Gel Photo

