

RMRC Genotyping Protocol-PCR

No.	RMRC13316	Strain Name	B6.129- <i>Tmem102</i> ^{tm1Jyen} /Narl
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A. Primer

	Primer name	Sequence
1	P1	5'-CTGAGTCAGGTGAACCGATTACCTACC-3'
2	P2	5'- CCAAAATTCCACGCATCAGTTCTG-3'
3	P3	5'- TAACCGTGCATCTGCCAGTTTGAG-3'

B. Reaction Conditions

Component	Concentration		Volume		Step	Tempera- ture, °C	Time, sec	Number of Cycles
H ₂ O	--		11.5	μl	1	94	120''	x 1
PCR buffer	10x		2	μl	2	94	30''	x 30
dNTP	5	mM	1			63	60''	
Primer 1 (P1+P2)	5	μM(ρmol/μl)	0.5			72	60''	
Primer 2 (P1+P3)	5	μM(ρmol/μl)	0.5	μl	3	72	300''	x 1
DNA			2	μl				
Taq	5	U/μl	0.25	μl				
Mg ²⁺	1.5	mM	0.25	μl				
DMSO	100%		2	μl				
Total			20	μl				

C. PCR Product

	Primer set		Product size	Target region
1	P1	P2	785 bp	Wt
2	P1	P3	440 bp	KO

D. Gel Photo

