

RMRC Genotyping Protocol-PCR

No.	RMRC13238	Strain Name	C57BL/6-Tg(Tnnt2-EGFP-Mir-541)LC03IBMS/CCC
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A. Primer

	Primer name	Sequence
1	'-541 (LA)-F	5' CATggTCCTgCTggAgTTCgTg
2	'-541 (LA)-R	5' GTGTGTATGGCTGCCCCGCA

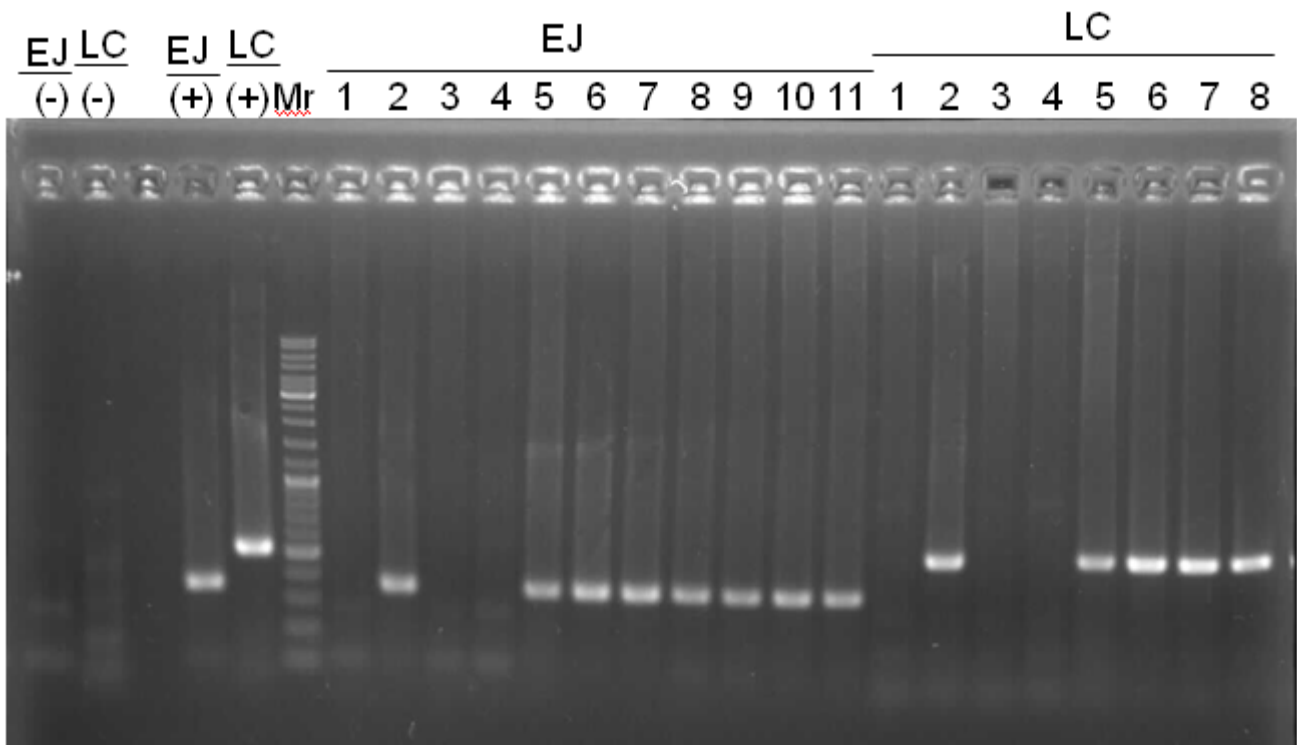
B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--		3.6	μl	1	94	300	
PCR buffer	10x			μl	2	94	15	30
dNTP		mM		μl	3	58	30	30
Primer 1	10	μM(μmol/μl)	0.2	μl	4	72	30	30
Primer 2	10	μM(μmol/μl)	0.2	μl	5	72	600	
DNA	crude tail lysate		1	μl	6	4	--	
Taq	Tiangen 2x Taq mastermix (blue)		5	μl	7			
Mg ²⁺		mM		μl	8			
Total			10	μl	9			

C. PCR Product

	Primer set		Product size	Target region
1	-541(LC)-F	-541 (LC)-R	519 bp	

D. Gel Photo



(-) Ctrl B6 WT, (+) Ctrl: Tg-miR-541 founder, 1~8: Tg mice tail samples =>Result: LC: No. 2, 5,6,7,8 are Tg-rcTnT-miR-541; No.1,3,4 are WT littermates