國家實驗研究院
NARLabs 國家實驗動物中心
National Laboratory Animal Center

RMRC Genotyping Protocol-PCR

No.	RMRC13433	Strain Name	FVB-Tg(Scgb1a1-VEGFA165)Meltw/Narl

A. Primer

	Primer name	Sequence
1	VEGF94(+)	5′-AAGGAGGAGGGCAGAATCATC-3′
2	VEGF315(-)	5′-GAGGTTTGATCCGCATAATCTG-3′

B. Genomic extraction :

☐ Phenol-Chloroform extraction □ commercial extraction kit _____

■Lysis buffer (50mM Ttis-HCl; 100mM NaCl; 100mM EDTA; pH8.0) □ other ____

_____

C. Reaction Conditions

Step 1. PCR

Component	Concentration		Volume		Step	Tempera -ture, °C	Time, sec	Number of Cycles
H_2O	--			µl	1			
PCR buffer	10x			µl	2			
PCR Dye Marker Mix	2x			µl	3			
Primer 1	10	µM(pmol/µl)		µl	4			
Primer 2	10	µM(pmol/µl)		µl	5			
DNA	--			µl	6			
Total				µl				

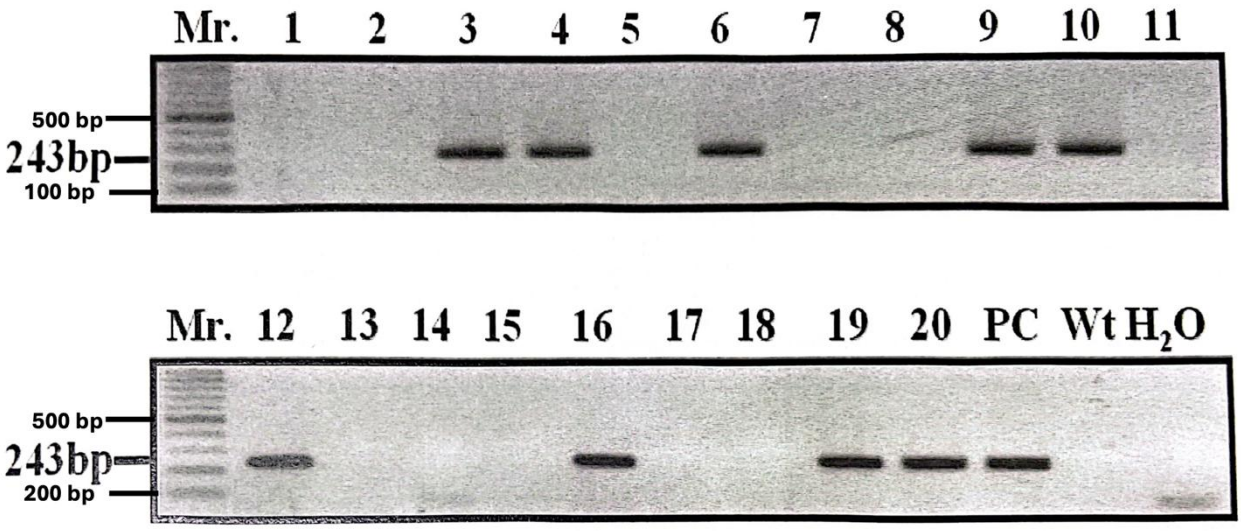
The information of Taq, including company name and catalog number：

Promega 10x PCR buffer

PCR Product

	Primer set		Product size	Target region
1	hVEGF 94 (+)	5′-AAGGAGGAGGGCAGAATCATC-3′	243 bp	
2	hVEGF 315 (−)	5′-GAGGTTTGATCCGCATAATCTG-3′	243bp	

D. Gel Photo


Mr. 1 2 3 4 5 6 7 8 9 10 11
500 bp
243bp
100 bp
Mr. 12 13 14 15 16 17 18 19 20 PC Wt H2O
500 bp
243bp
200 bp