PCR protocol

Sheet ID PS_08565
Release date : 3/29/2024
Print date : 3/29/2024

RBRC 12120 **Strain name** BALB/c-Tg(KRT5-Ikzf1/EGFP)#Mueta

Primer	primer_name	primer_seq	length		Reference
1	K5 promoter	ATGCCAATGCCCCCTCAGTTCCT	23		CANCER RESEARCH 63, 674 – 681 (2003).
2	BGH-R3	AGCTGGTTCTTTCCGCCTCAG	21		Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

Reaction Components

Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reagent	Conc	Reaction 1	2	3	4
H2O		0.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/μl	1.0			
primer 2	10 pmol/μl	1.0			
primer 3	10 pmol/μl	1.0			
primer 4	10 pmol/μl	1.0			
DNA		1.0			
Taq	1 U/μl	0.2			
	total	20			

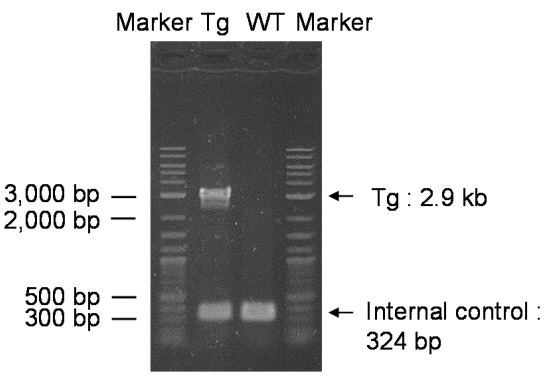
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	240*	*Repeat for 30 cycles

Marker 2-Log DNA Ladder (NEB, Cat. N3200)

Gel 1% agarose in 1 X TAE (100 V, 30 min)



primer_set		product_size	product (allele type)
primer 1	primer 2	2.9 kb	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment

Novagen KOD Xtreme™ Hot Start DNA Polymerase can be purchased from EMD.