



PCR protocol

Sheet ID PS_08311
Release date : 3/15/2022
Print date : 3/15/2022

RBRC 02444

Strain name B6.Cg-Tg(Lefty2 3.3-cre)77bHmd

Primer	primer_name	primer_seq	length	Reference
1	promoter	CAGGTGCCTGCAGCTGTGGAC	21	RIKEN BRC
2	exon 1	CAGCTGCTGCAGTAGACTGCTC	22	RIKEN BRC
3	Cre	CTAATCGCCATCTTCCAGCAGG	22	Depositor's primer

Reaction Components

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

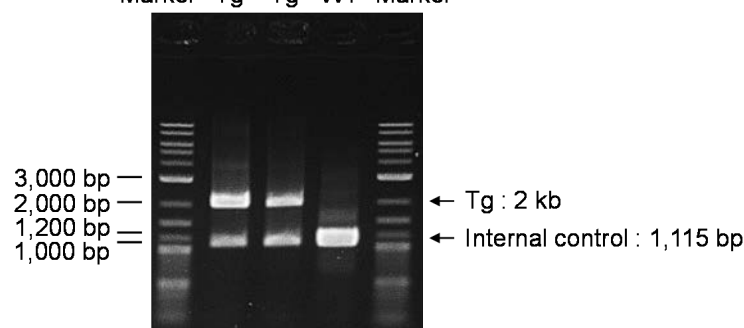
Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	68	180*	*Repeat for 30 cycles

Reagent	Conc	Reaction 1	2	3	4
H2O		1.6			
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			
DNA		1.0			
Taq	1 U/μl	0.4			
total		20			

Marker	2-Log DNA Ladder (NEB, Cat. N3200)
Gel	1% agarose in 1 X TAE (100 V, 30 min)

Marker Tg Tg WT Marker



primer_set	product_size	product (allele type)
primer 1	primer 2	1,115 bp
primer 1	primer 3	2 kb

Non-Tg : 1115 bp
Tg : 1115 bp, 2 kb

Comment [Standard PCR](#)

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



Sheet ID PS_01514
Release date : 06/03/2009
Print date : 3/15/2022

Strain name B6.Cg-Tg(lefty2 3.3-cre)77bHmd

[illegible]

Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

Reaction Conditions

[illegible]

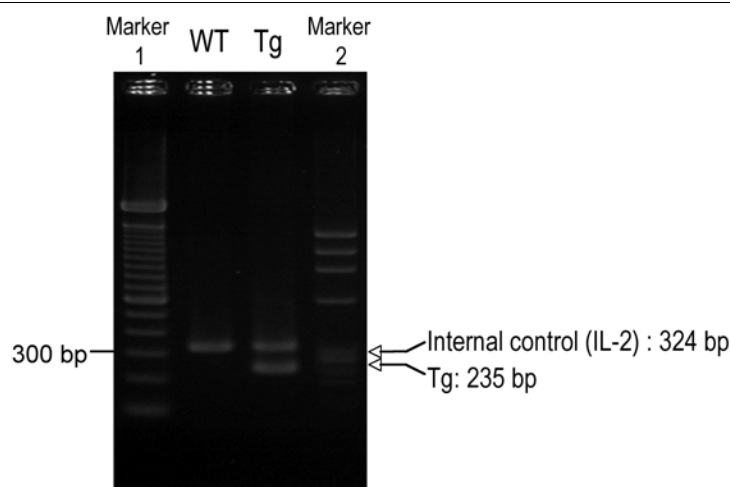
Reagent	Conc	Reaction 1	2	3	4	
H ₂ O		15.3				(μL)
PCR buffer	10 X	2.5				
dNTP	2.5 mM	2.0				
primer 1	10 pmol/ μl	1.0				
primer 2	10 pmol/ μl	1.0				
primer 3	10 pmol/ μl	1.0				
primer 4	10 pmol/ μl	1.0				
DNA		1.0				
Taq		0.2				
						Mark
						Gel
	total	25				

Marker

marker 1:100 bp ladder (Invitrogen, Cat. 15628-050), marker2: ϕ X174 Hae III

Gel

2% agarose in 1 X TAE (100 V, 30 min)



primer_set		product_size	product (allele type)
primer 1	primer 2	235 bp	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment Standard PCR

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