PCR protocol

Sheet ID PS_05862
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RBRC 05794 **Strain name** C57BL/6N-Cck<tm2a(EUCOMM)Hmgu>/B06

Primer	primer_name	primer_seq	length		Reference
1		CCACATCTGAGGACTGGGCACAG	23		RIKEN BRC
2		GAACCAAGTCATAGGGTGAGGTAAGG	26		RIKEN BRC
3		GGCACATGGCTGAATATCGACGG	23		RIKEN BRC

Reaction Components

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

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			

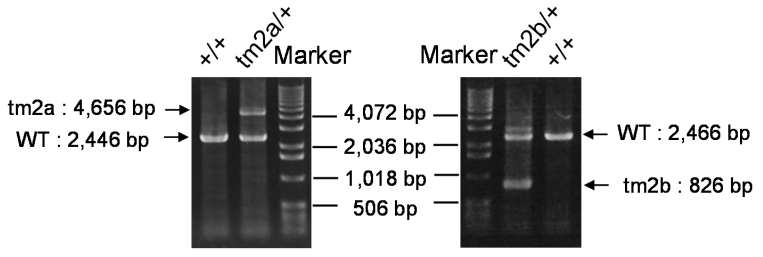
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	68	360	* *Repeat for 30 cycles

Marker 1 kb DNA ladder (Invitrogen, Cat. 15615-024)

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



primer_set		product_size	product (allele type)
primer 1	primer 2	2,446 bp	WT
primer 2	primer 3	4,656 bp	flox(tm2a)
primer 2	primer 3	826 bp	lacZ(tm2b)

Comment Standard PCR

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