PCR protocol

Sheet ID PS_06017
Release date : 6/12/2019
Print date : 6/12/2019

RBRC 05606 **Strain name** C57BL/6N-Atp13a2<tm1a(EUCOMM)Hmgu>/F08

Primer	primer_name	primer_seq	length		Reference
1		GTGGCACTGCCTGCAGTGGACTG	23		RIKEN BRC
2		GAGGTATATGTTCCATGCTGGTC	23		RIKEN BRC
3		GGCACATGGCTGAATATCGACGG	23		RIKEN BRC

Reaction Components

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

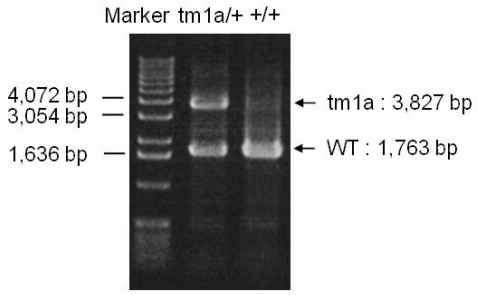
Reagent	Conc	Reaction 1	2	3	4	
H2O		1.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	30	*
4	68	300	* *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	1,763 bp	WT
primer 2	primer 3	3,827 bp	flox (tm1a)
primer 2	primer 3	607 bp	lacZ (tm1b)

Comment Standard PCR

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