PCR protocol

Sheet ID PS_07305
Release date : 5/31/2017
Print date : 5/31/2017

RBRC 03827 Strain name STOCK Tg(Foxa2mNE-hsp-Pkd2/Venus)75Hmd

Primer	primer_name	primer_seq	length		
1		CTCCTGACCATGCTTAAGAGAAGAC	25		RIKEN BRC
2	gfp	CAGCTTGCCGGTGGTGCAGATG	22		
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

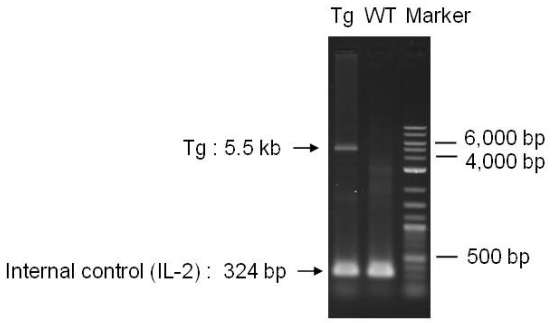
Reaction Components

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

	Conc	Run 1	Run 2	Run 3	Run 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			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	30	*
4	68	300	* *Repeat for 30 cycles



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

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

PCR products	primer_set	product_size	product
primer 1	primer 2	5.5 kb	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment

PCR protocol

Sheet ID PS_02951
Release date : 04/28/2010
Print date : 5/31/2017

RBRC 03827 Strain name STOCK Tg(HNF3bmNE-hsp-Pkd2/Venus)75Hmd

Primer	primer_name	primer_seq	length		
1	Pkd2 ex2	GGGGAACAAGACTCATGGAA	20		Depositor's primer
2	Pkd2 ex3	ACACTGGGGTGTCTATGAAT	20		Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

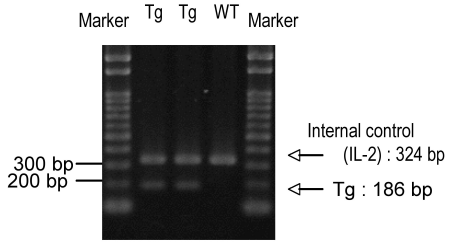
Reaction Components

Enzyme: TaKaRa Ex Taq (Cat. No. RR001A)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		11.3			
PCR buffer	10 X	2.0			
dNTP	2.5 mM	1.6			
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	5U/μl	0.1			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30	*
3	60	30	*
4	72	60	* *Repeat for 30 cycles
5	72	300	



Marker
Gene Ladder 100 (Wako, Cat. 316-06951)

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

PCR products	primer_set	product_size	product
primer 1	primer 2	186 bp	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment