PCR protocol

Sheet ID PS_08157
Release date : 6/10/2021
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RBRC 01663 **Strain name** B6D2-Tg(hK14-AhR-CA)239Mym/MymRbrc

Primer	primer_name	primer_seq	length		Reference
1	promoter	GTGGGAACCACGATACACCTGAC	23		RIKEN BRC
2	Reverse	ATACGCTCTGATGGATGACATCAGACT	27		Mol. Cell. Biol., 25, 9360-9368 (2005).
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

Reaction Components

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

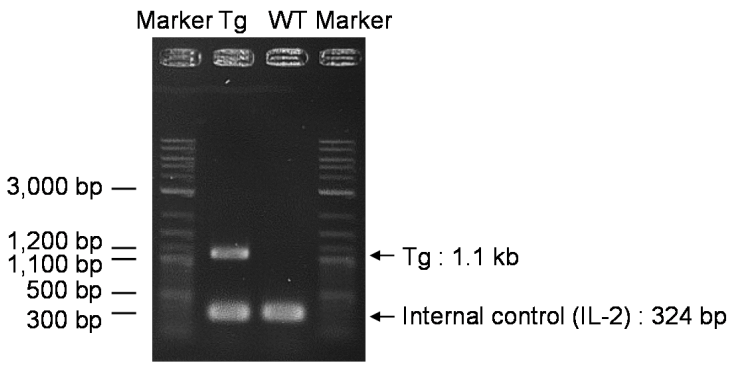
Reagent	Conc	Reaction 1	2	3	4	
H2O		0.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	30	*
4	68	90	* *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	1.1 kb	Tg	Non-Tg : 324 bp Tg : 324 bp, 1.1 kb
primer 3	primer 4	324 bp	Internal control (IL-2)	

Comment Standard PCR

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

PCR protocol

Sheet ID PS_00820
Release date : 7/13/2006
Print date : 6/10/2021

RBRC 01663 **Strain name** K14-AhR-CA TG mouse line 239

Primer	primer_name	primer_seq	length		Reference
1	Forward	AACTCTCTGTTCTTAGGCTCAGCGTC	26		Mol. Cell. Biol., 25, 9360-9368 (2005).
2	Reverse	ATACGCTCTGATGGATGACATCAGACT	27		Mol. Cell. Biol., 25, 9360-9368 (2005).
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	Internal control (IL-2)	JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	Internal control (IL-2)	JAX Genotyping Protocol

Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

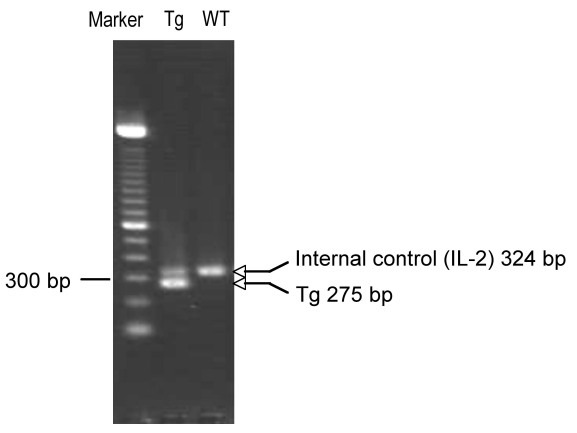
Reagent	Conc	Reaction 1	2	3	4	
H2O		15.3				(μL)
PCR buffer	10 X	2.5				
dNTP	2.5 mM	2.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq		0.2				
total		25				

Reaction Conditions

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

Marker 100 bp ladder (Invitrogen, Cat. 15628-050)

Gel 2% agarose in 1 X TAE (100 V, 35 min)



primer_set		product_size	product (allele type)
primer 1	primer 2	275 bp	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment Standard PCR