PCR protocol

Sheet ID PS_06628
Release date : 10/14/2015
Print date : 10/14/2015

RBRC 05954 Strain name B6.129S7-Dp(7Herc2-Mkrn3)1Taku

Primer	primer_name	primer_seq	length		
1	hprt-intron2-F1	AGAGGAGGGCCTTACTAATTACTTA	25		Depositor's primer
2	hprt-exon3. 6-R2	ACCTTGACCATCTTTGGATTATACT	25		Depositor's primer
3	TRPM1F1	GGAAATCCTTGGACTTGGCTACAG	24		
4	TRPM1B1	GCACCCCAGTTCTAACCACTTGAG	24		

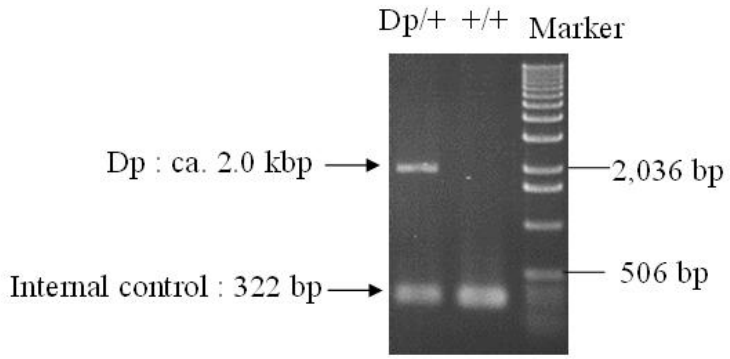
Reaction Components

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	1.5			
primer 2	10 pmol/μl	1.5			
primer 3	10 pmol/μl	0.5			
primer 4	10 pmol/μl	0.5			
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	180	* *Repeat for 30 cycles



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

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

PCR products

primer_set		product_size	product
primer 1	primer 2	ca. 2.0 kbp	Dp
primer 3	primer 4	322 bp	Internal control

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

PCR protocol

Sheet ID PS_05634
Release date : 2/14/2014
Print date : 10/14/2015

RBRC 05954 Strain name B6.129S7-Dp(7Herc2-Mkrn3)1Taku

Primer	primer_name	primer_seq	length		
1	hprt-intron2-F1	AGAGGAGGGCCTTACTAATTACTTA	25		Depositor's primer
2	hprt-intron2-R2	ATATGTACTTTTGCATATAGTATAC	25		Depositor's primer
3	oIMR0015	CAAATGTTGCTTGTCTGGTG	20		JAX Genotyping Protocol
4	oIMR0016	GTCAGTCGAGTGCACAGTTT	20		JAX Genotyping Protocol

Reaction Components

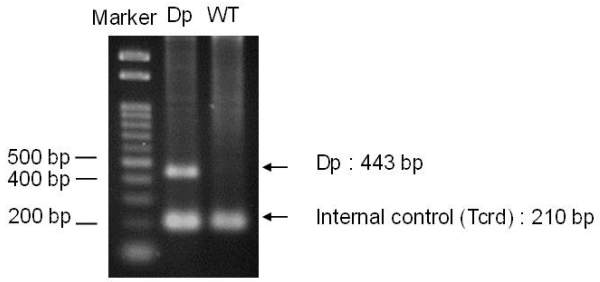
Enzyme: TOYOBO KOD FX (Code.No : KFX-101)

	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	55	30	*
4	68	60	* *Repeat for 30 cycles

Standard PCR



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	443 bp	Dp
primer 3	primer 4	210 bp	Internal control (Tcrd)

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