PCR protocol

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RBRC 06013

Strain name ICR-Tg(Hes1-luc2/Hes1)1Imayo

Primer	primer_name	primer_seq	length		Reference
1	HES1(+)	ATATATAGAGGCCGCCAGGGCCTGCGGATC	30		Depositor's primer
2	HES1 WT(-)	CGCAGGTACTGTCTTACCTTTCTGTGCTCAGAGGCC	36		Depositor's primer
3	luc2-#2(401bp)-rv	CTGGTTGTTTCTGTCAGGCCGTAGC	25		Depositor's primer

Reaction Components

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

Reagent	Conc	Reaction 1	2	3	4
H2O		1.8			
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			
DNA		1.0			
Taq	1 U/μl	0.2			
	total	20			

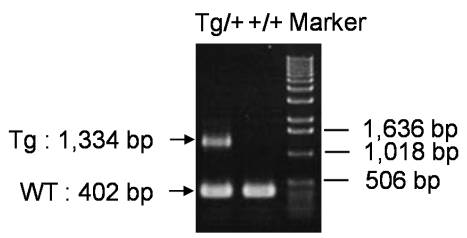
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	120*	*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	402 bp	Hes1
primer 1	primer 3	1,334 bp	Tg

Comment

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