PCR protocol

Sheet ID PS_07032
Release date : 4/20/2017
Print date : 4/20/2017

RBRC 05979 **Strain name** ICR;129-Hes1<tm1Fgu>

Primer	primer_name	primer_seq	length		
1	HES1(+)	ATATATAGAGGCCGCCAGGGCCTGCGGATC	30		
2		TGCCCTTCGCCTCTTCTCCATGATA	25		Development, 135(15):2531-2541 (2008).
3	NEO anti-sense	CTGATGCTCTTCGTCCAGATC	21		Genes Dev., 9(24):3136-3148 (1995).

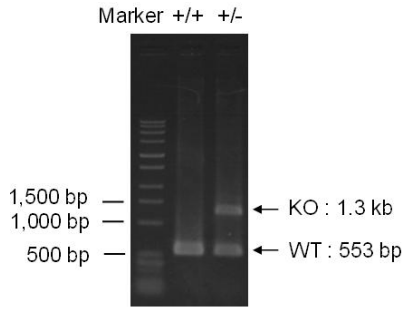
Reaction Components

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

	Conc	Run 1	Run 2	Run 3	Run 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			

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	553 bp	WT
primer 1	primer 3	1.3 kb	KO

Comment

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