PCR protocol

Sheet ID PS_07051
Release date : 1/30/2017
Print date : 1/30/2017

RBRC 09759 **Strain name** B6.129P2-Chd8<tm2.1Kei>

Primer	primer_name	primer_seq	length		
1	YK183	CCATAGGCTGAAGAACCGTAATTG	24		Depositor's primer
2	YK182	CCCAAAAGACCAAATCAAACAAAC	24		Depositor's primer
3	YK254	AGGCTTAGAAACCCGTCGAG	20		Depositor's primer

Reaction Components

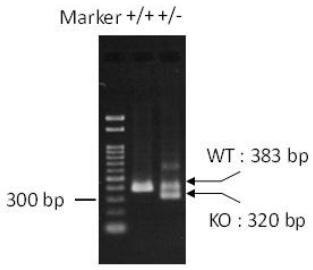
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

	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	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	383 bp	WT
primer 2	primer 3	320 bp	KO

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