PCR protocol

Sheet ID PS_07015
Release date : 1/30/2017
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RBRC 05432 **Strain name** C57BL/6N-D1Pas1<tm1(KOMP)Vlcg>/D4

Primer	primer_name	primer_seq	length		
1	SU	ACTCAACCGAGTGCTGTTCC	20		Depositor's primer
2	TUR	CGGTCACTGAAGAAACTGGACTTG	24		Depositor's primer
3	LacZRev	GTCTGTCCTAGCTTCCTCACTG	22		Depositor's primer

Reaction Components

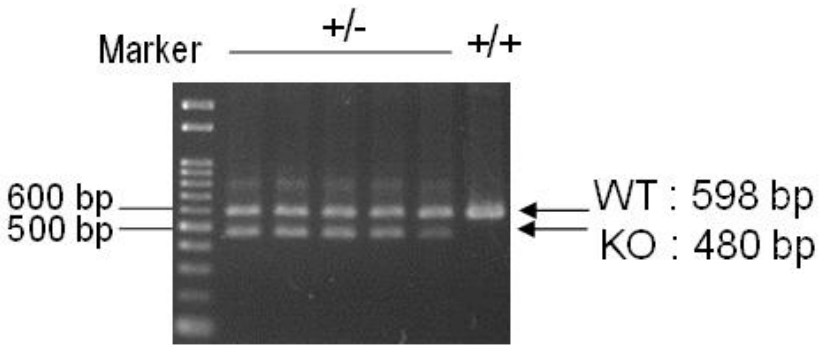
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

	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	65	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	598 bp	WT
primer 1	primer 3	480 bp	KO

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