PCR protocol

Sheet ID PS_07757
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RBRC 10466 **Strain name** MRL.Cg-Xkr8<tm1.2Osa>

Primer	primer_name	primer_seq	length		Reference
1	WT FW	CTCATTGCTGATGTGGGTGACAATA	25		Depositor's primer
2	commonRV	CATTATCTTCCTCACTGGCTGAATC	25		Depositor's primer
3	KO FW	AGGCTTTTCTCTACTTTTGATGGAG	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			

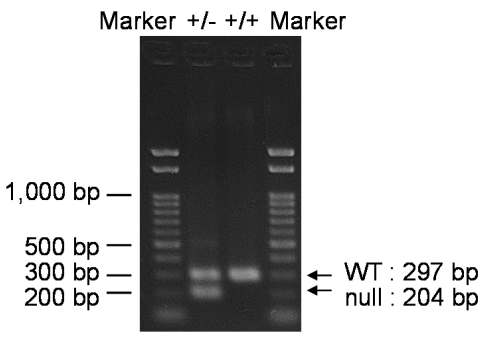
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	30	*
4	68	60	* *Repeat for 30 cycles

Marker Gene Ladder 100 (Wako, Cat. 316-06951)

Gel 2% agarose in 1 X TAE (100 V, 30 min)



primer_set		product_size	product (allele type)	
primer 1	primer 2	297 bp	WT	+/+ : 297 bp
primer 2	primer 3	204 bp	null	+/- : 297 bp, 204 bp

Comment Standard PCR

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