

RBRC 06306

Strain name ICR;129(B6)-Mafg<tm1.1Jeng>

Primer	primer_name	primer_seq	length	Reference
1	mafG36	GCATGACTCGCCAGGAACAG	20	Depositor's primer
2	mafG433	CCCAAGCCCAGCCTCTCTAC	20	Depositor's primer
3	LacZ4	CCTGTAGCCAGCTTTCATCAAC	22	Depositor's primer

Reaction Components

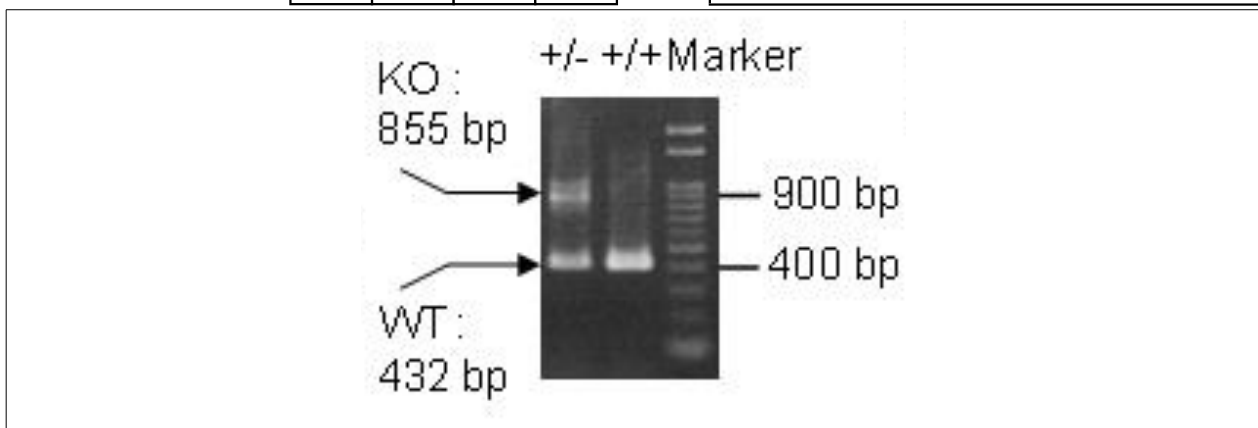
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reaction Conditions

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

Reagent	Conc	Reaction 1	2	3	4	(µL)
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				

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	432 bp	WT (Mafg)
primer 1 / primer 3	855 bp	KO (Mafg)

+ / +: 432 bp
+ / -: 432 bp, 855 bp

Comment Standard PCR

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