

RBRC 09475

Strain name B6.129S2-Piwil2<tm1Nkn>

Primer	primer_name	primer_seq	length	Reference
1	MILI-Int4-1	AGGTCCTGTGTAGAGCCAAG	20	Development., 131, 839-849 (2004).
2	MILI-Int5	AAGTGACAAGGTGCGAGTCT	20	Development., 131, 839-849 (2004).
3	pPNT-1	CCTACCCGGTAGAATTGACC	20	Development., 131, 839-849 (2004).

Reaction Components

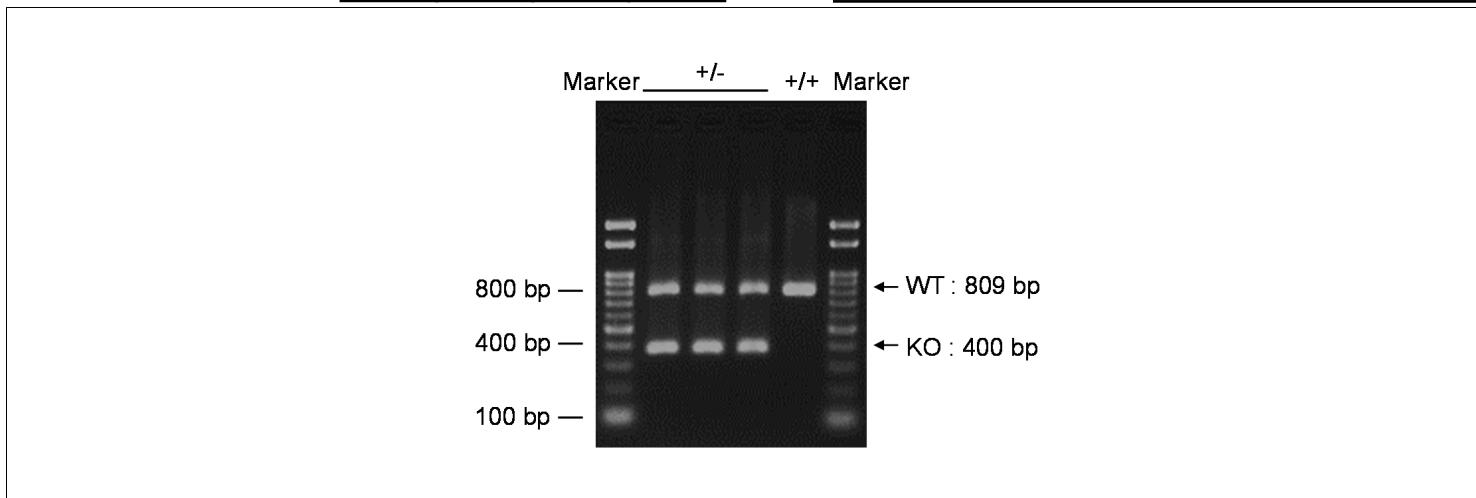
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

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			

Reaction Conditions

step	temp (°C)	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	809 bp	WT
primer 3	primer 2	400 bp	KO

+/+ (wild-type): 809 bp
+/- (heterozygous): 809 bp and 400 bp

Comment [Standard PCR](#)

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