

RBRC 04608

Strain name B6;129P2-Runx1<tm1Homy>

Primer	primer_name	primer_seq	length	Reference
1	mAML-1b-1	GCGCATAAATATTTTAGGACGCGTATGGG	29	Depositor's primer
2	mRunx1b	TCGTGCTAGCATCTACGGGGATACGCAT	28	Dev. Biol., 345, 226-236 (2010).
3	hRunx1-4	TGCCATCTGGAACATCCCCT	20	Dev. Biol., 345, 226-236 (2010).

Reaction Components

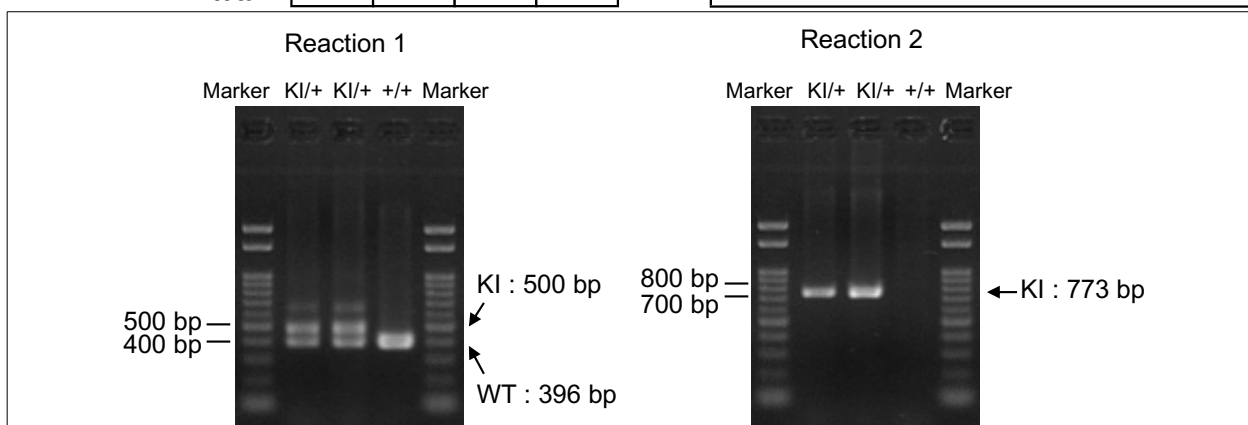
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reagent	Conc	Reaction 1	2	3	4
H ₂ O		2.8	2.8		
PCR buffer	2 X	10.0	10.0		
dNTP	2.0 mM	4.0	4.0		
primer 1	10 pmol/ μ l	1.0	1.0		
primer 2	10 pmol/ μ l	1.0	0		
primer 3	10 pmol/ μ l	0	1.0		
DNA		1.0	1.0		
Taq	1 U/ μ l	0.2	0.2		
total		20	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	396 bp	WT
primer 1	primer 2	500 bp	KI
primer 1	primer 3	773 bp	KI

Reaction 1
+/+ : 396 bp
KI/+ : 396 bp, 500 bp
Reaction 2
+/+ : N.D.
KI/+ : 773 bp

Comment [Standard PCR](#)

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