

RBRC 05924

Strain name B6.Cg-Atpif1 <tm1>

Primer	primer_name	primer_seq	length	
1	Atpif1-For1	GTGCATGTGCACCTTTTGTGTGTGTGTATGC	30	Depositor's primer
2	WT_Rv	CATCAGGCAAGTTTCCTGGTGATCG	25	RIKEN BRC
3	Neo-Rev1	CATGATATTCGGCAAGCAGGCATCGCCATG	30	Depositor's primer

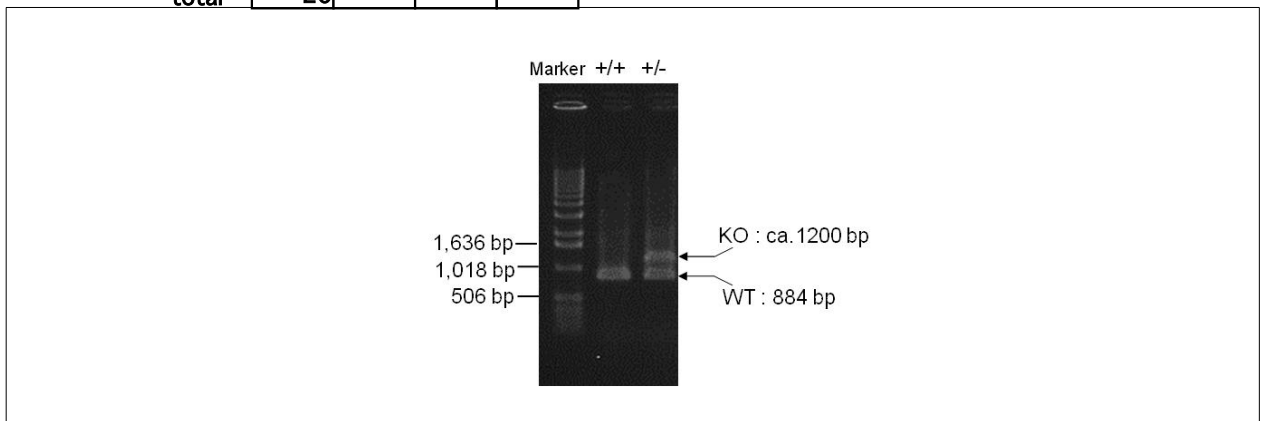
Reaction Components

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	120*	*Repeat for 30 cycles

	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	10 pmol/μl	1.0			
Taq	1 U/μl	0.2			
total		20			



Marker
1 kb DNA ladder (Invitrogen, Cat. 15615-024)

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

PCR products			
primer_set	product_size	product	
primer 1	primer 2	884 bp	WT
primer 2	primer 3	ca 1,200 bp	KO

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