

RBRC 11386

Strain name B6;Cg-Tg(Ctsk-OCZF)#Akt

Primer	primer_name	primer_seq	length	Reference
1	promoter	GAGACTCTTGTAACCTGGACCTAG	23	RIKEN BRC
2	P2	TTCTTCAGGTCGTAGTTGTGTG	22	Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	JAX Genotyping Protocol

### Reaction Components

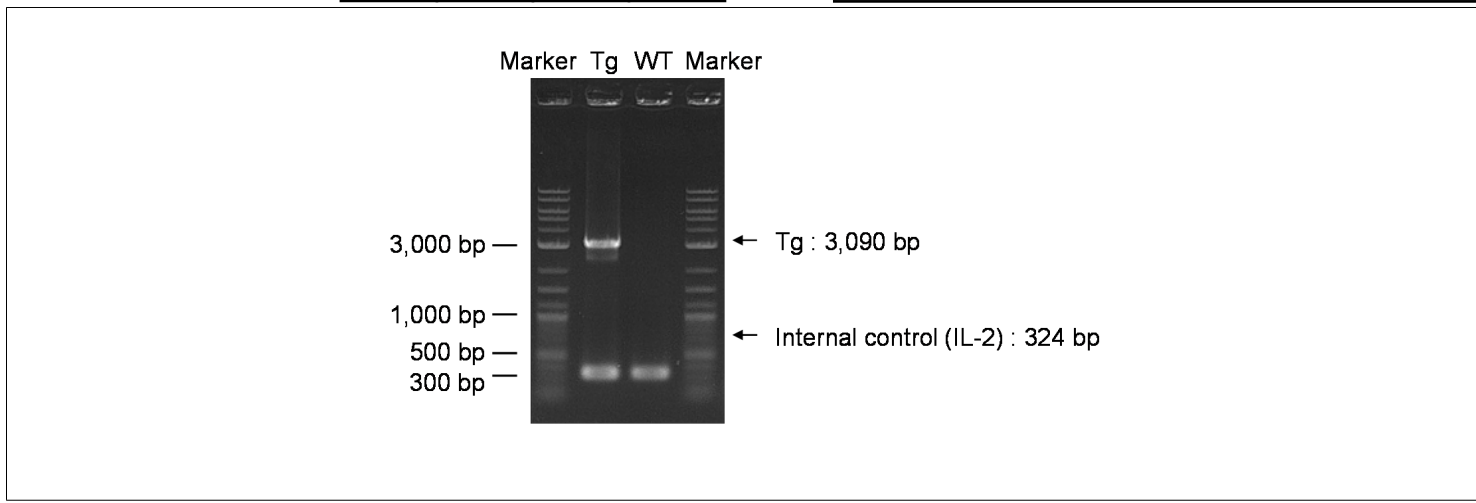
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

### Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	240*	*Repeat for 30 cycles

Reagent	Conc	Reaction 1	2	3	4	(μL)
H2O		0.8				
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				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
<b>total</b>		<b>20</b>				

<b>Marker</b>	2-Log DNA Ladder (NEB, Cat. N3200)
<b>Gel</b>	1% agarose in 1 X TAE (100 V, 30 min)



primer_set	product_size	product (allele type)
primer 1	primer 2	3,090 bp
primer 3	primer 4	324 bp

**Comment** Standard PCR

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