

RBRC 10390

Strain name STOCK Actb<tm3.1(tetO-GCaMP6)Kftnk>Tg(Pvalb-tTA)1Kftnk

Primer	primer_name	primer_seq	length	Reference
1	PV-489U	TCGCGGCATAAAATTTGCATCCAGG	24	Cell Rep., 36(4):109427(2021).
2	tTA_R	CCAGGGTCTCGTACTGCTTC	20	Depositor's primer
3	WT_Fw	ATTTCTGAATGGCCCAGGTCTGAG	24	RIKEN BRC
4	WT_Rv	CTGCTCTGGTGTCTGTGTTACCTG	24	RIKEN BRC
5	intronLow	AAGGCAGGATGATGACCAGGATGT	24	Depositor's primer

Reaction Components

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

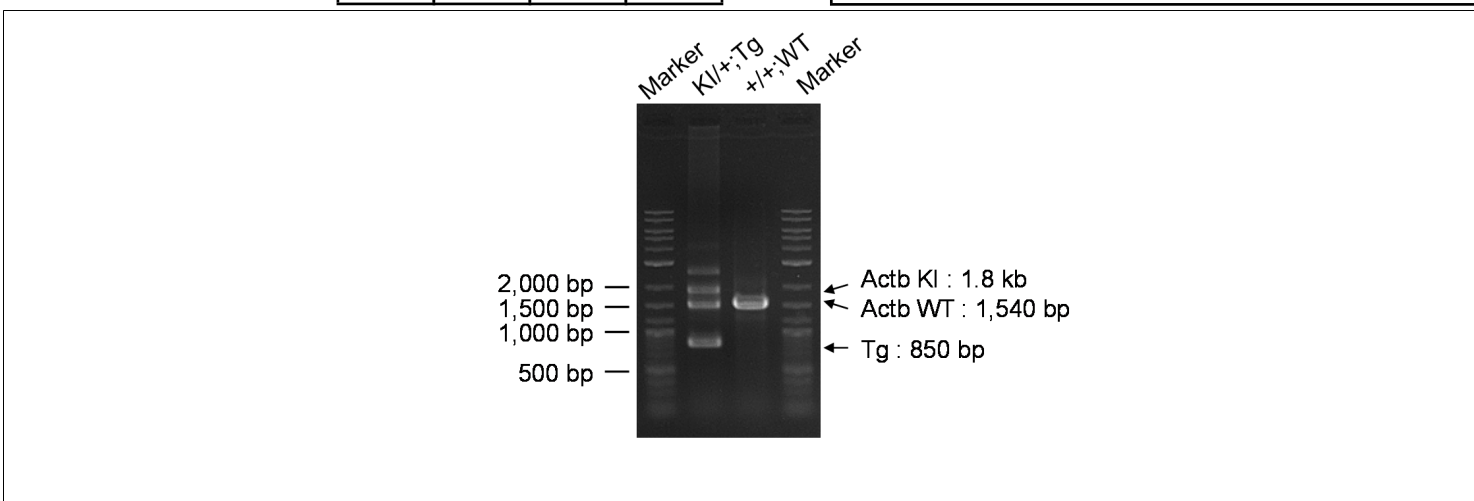
Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	180*	*Repeat for 30 cycles

Reagent	Conc	Reaction 1	2	3	4	(μ L)
H2O		0.8				
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/ μ l	0.5				
primer 2	10 pmol/ μ l	0.5				
primer 3	10 pmol/ μ l	1.0				
primer 4	10 pmol/ μ l	1.0				
primer 5	10 pmol/ μ l	1.0				
Taq	1 U/ μ l	0.2				
DNA		1.0				
total		20				

Marker 2-Log DNA Ladder (NEB, Cat. N3200)

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



primer_set	product_size	product (allele type)
primer 1	primer 2	850 bp Tg
primer 3	primer 4	1,540 bp WT
primer 3	primer 5	1.8 kb KI

Comment Standard PCR

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