

PCR protocol

RBRC 09637

Strain name B6-Gt(Rosa)26Sor<tm1.1(CAG-GCaMP6,-mCherry)Shi>

Primer	primer_name	primer_seq	length	
1	R26_F	TACCTTTCTGGGAGTTCTCTGCTG	24	Depositor's primer
2	R26_R	CGAAAATCTGTGGGAAGTCTTGTC	24	Depositor's primer
3	LFcheck-GCaMP3-rv	CTATAGCTCTGACTGCGTGACCTGTC	26	Depositor's primer

Reaction Components

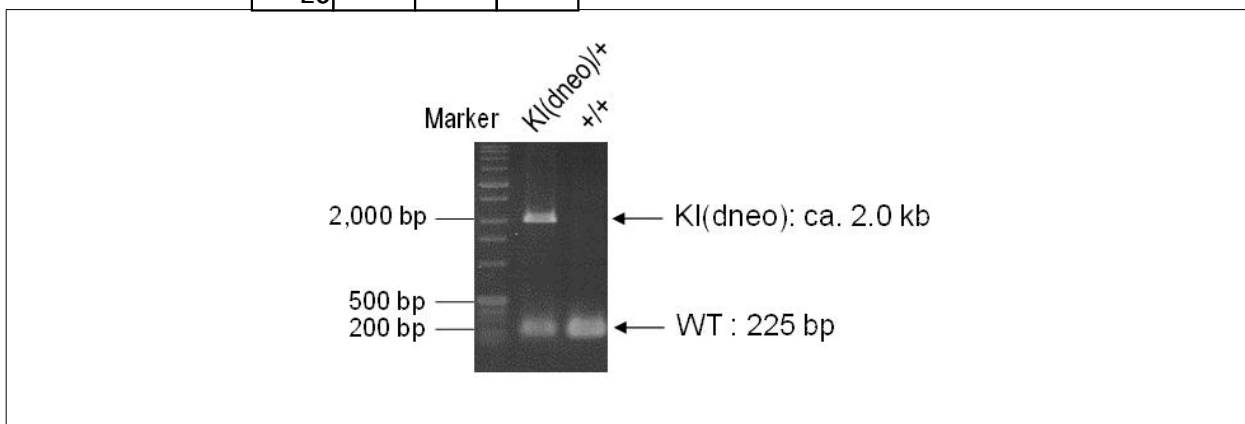
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	300*	*Repeat for 30 cycles

Conc	Run 1	Run 2	Run 3	Run 4
H2O	1.8			
PCR buffer	10.0			
dNTP	4.0			
primer 1	1.0			
primer 2	1.0			
primer 3	1.0			
DNA	1.0			
Taq	0.2			
total	20			

Standard PCR



Marker
 DNA Ladder, 1 kb Plus (Affymetrix, Cat. 76714 500 UL)
Gel
 1% agarose in 1 X TAE (100 V, 30 min)

PCR products	primer_set	product_size	product
primer 1	primer 2	225 bp	WT
primer 1	primer 3	ca. 2.0 kb	KI(dneo)

Comment

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