

RBRC 10645

Strain name C57BL/6J-Tg(tetO-Kcnj2/EGFP)19Sleep

Primer	primer_name	primer_seq	length	Reference
1	TRE-Tight	CAGTGATAGAGAACGATGTCGAG	23	RIKEN BRC
2	G-CaMP7-R	GTCGTCCTTGAAGAAGATGG	20	Depositor's primer
3	NR1-GT2	AGCCCTTCAAGTACCAGGGCCTGAC	25	Eur. J. Neurosci., 15, 40-50 (2002).
4	NR1-GT3	AGCGGTCCAGCAGGTACAGCATCAC	25	Eur. J. Neurosci., 15, 40-50 (2002).

Reaction Components

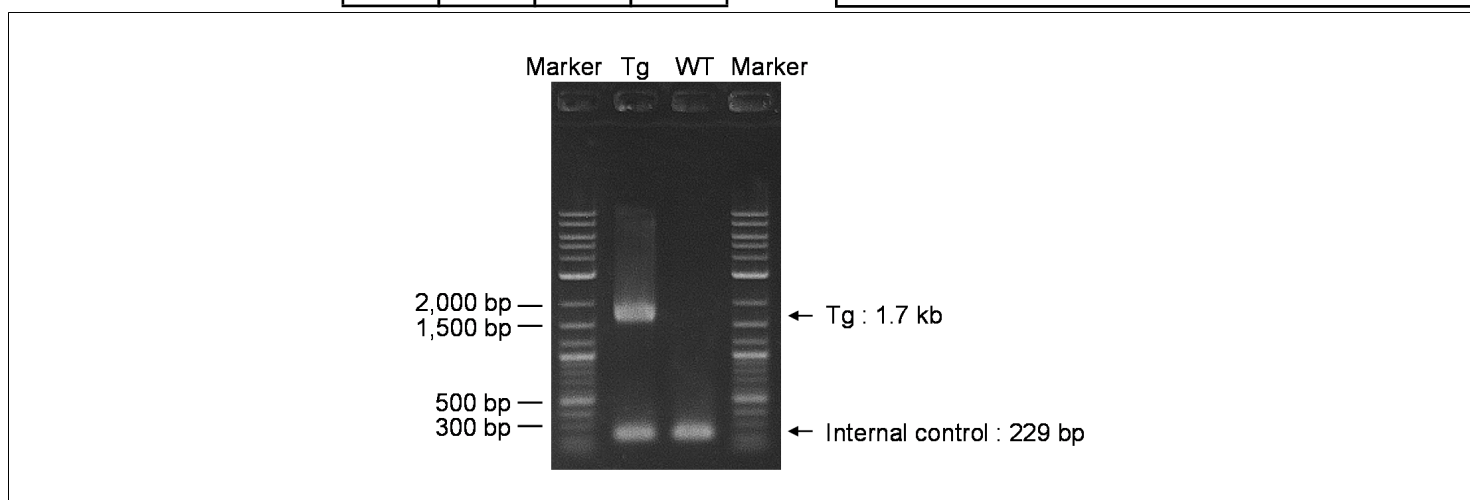
Enzyme	TOYOBO KOD FX (Code.No : KFX-101)
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Reaction Conditions

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
H2O		0.8			
PCR buffer	2 X	10.0			
dNTP	2 mM	4.0			
primer 1	10 pmol/μl	1.5			
primer 2	10 pmol/μl	1.5			
primer 3	10 pmol/μl	0.5			
primer 4	10 pmol/μl	0.5			
DNA		1.0			
Taq	1 U/μl	0.2			
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	1.7 kb
primer 3	primer 4	229 bp

Non-Tg : 229 bp
Tg : 229 bp, 1.7 kb

Comment [Standard PCR](#)

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