

PCR protocol

Sheet ID PS_06789
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RBRC 06018

Strain name ICR-Tg(Olig2-mCherry/Olig2)1Imayo

Primer	primer_name	primer_seq	length	
1	Common sense	TCGAGAGCTTAGATCATCC	19	Depositor's primer
2	Olig2	CACCGCCGCCAGTTTGTCC	20	Depositor's primer
3	mCherry-300bp-rv	TTCAGCCTCTGCTTGATCTCGCCCTTC	27	Depositor's primer

Reaction Components

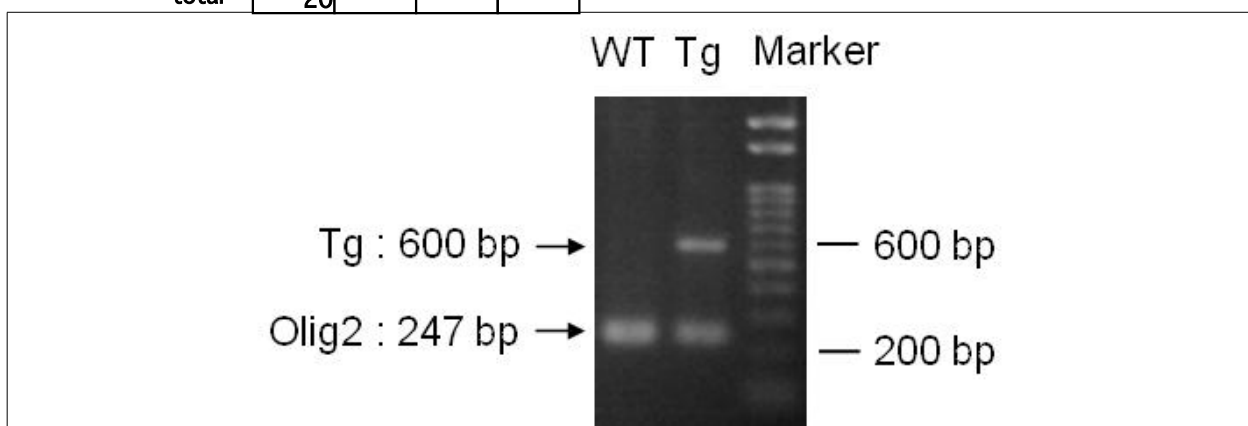
Enzyme	TOYOBO KOD FX (Code.No : KFX-101)
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Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	60*	*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/ μ l	1.0			
primer 2	10 pmol/ μ l	1.0			
primer 3	10 pmol/ μ l	1.0			
DNA		1.0			
Taq	1 U/ μ l	0.2			
total		20			

Standard PCR



Marker

Gene Ladder 100 (Wako, Cat. 316-06951)

Gel

3% Nusieve in 0.5 X TBE (100 V, 60 min)

Comment

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

PCR products	primer_set	product_size	product
primer 1	primer 2	247 bp	Internal control
primer 1	primer 3	600 bp	Tg