PCR protocol

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RBRC 09614 **Strain name** STOCK Tg(Drd1-tTA)#Kftnk/Mwa (D1R-tTA)

Primer	primer_name	primer_seq	length		
1	D1R-423U	TAGGGCATTTGGAGAGATGTGGCA	24		Depositor's primer
2	mtTA24L	CGGAGTTGATCACCTTGGACTTGT	24		Biol. Psychiatry, 67, 770-773 (2010).
3	oIMR0015	CAAATGTTGCTTGTCTGGTG	20		JAX Genotyping Protocol
4	oIMR0016	GTCAGTCGAGTGCACAGTTT	20		JAX Genotyping Protocol

Reaction Components

Enzyme

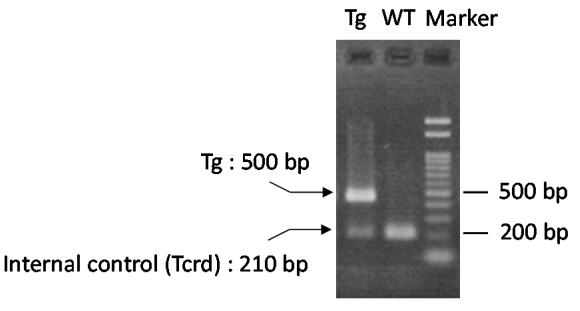
TOYOBO KOD FX (Code.No : KFX-101)

	Conc	Run 1	Run 2	Run 3	Run 4
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			
total		20			

Reaction Conditions

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

Standard PCR



Marker

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

Gel

2% agarose in 1 X TAE (100 V, 30 min)

PCR products	primer_set	product_size	product
primer 1	primer 2	500 bp	Tg
primer 3	primer 4	210 bp	Internal control (Tcrd)

Comment

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