PCR protocol

Sheet ID PS_06876
Release date : 6/16/2017
Print date : 6/16/2017

RBRC 05447 **Strain name** B6.Cg-Tg(ACTB-tTS)1Mllo

Primer	primer_name	primer_seq	length		
1	ex1	CGCGAGCACAGAGCCTCGCC	20		RIKEN BRC
2	ttsP2	CAGGGCTCTTCTCCCTTCTC	20		Biol. Psychiatry, 67, 770-773 (2010).
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

Reaction Components

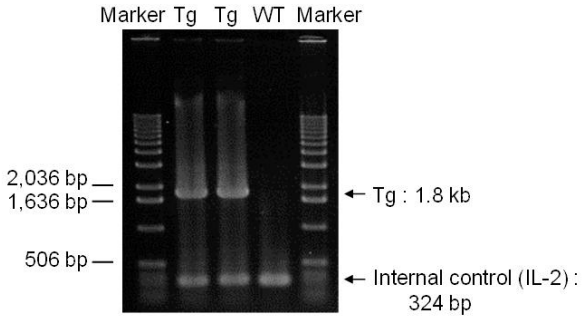
Enzyme TaKaRa LA Taq with GC buffer (Cat. No. RR02AG)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		2.9			
PCR buffer	2 X GC I	10.0			
dNTP	2.5 mM	2.0			
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	5 U/μl	0.1			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)		note
1	94	180		
2	94	30	*	
3	60	30	*	
4	72	120	*	*Repeat for 30 cycles
5	72	300		

Standard PCR



Marker
1 kb DNA ladder (Invitrogen, Cat. 15615-024)

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

PCR products	primer_set	product_size	product
primer 1	primer 2	1.8 kb	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment