PCR protocol

RBRC 03314 Strain name DV1-1-4 Tg

Primer	primer_name	primer_seq	length		
1	hDBH	gaagggacagcatccgcctgtc	22		RIKEN BRC
2		TCACTGGAGAAGAGCTTTGATTG	23		RIKEN BRC
3		ccataatggtcattgactacctc	23		RIKEN BRC

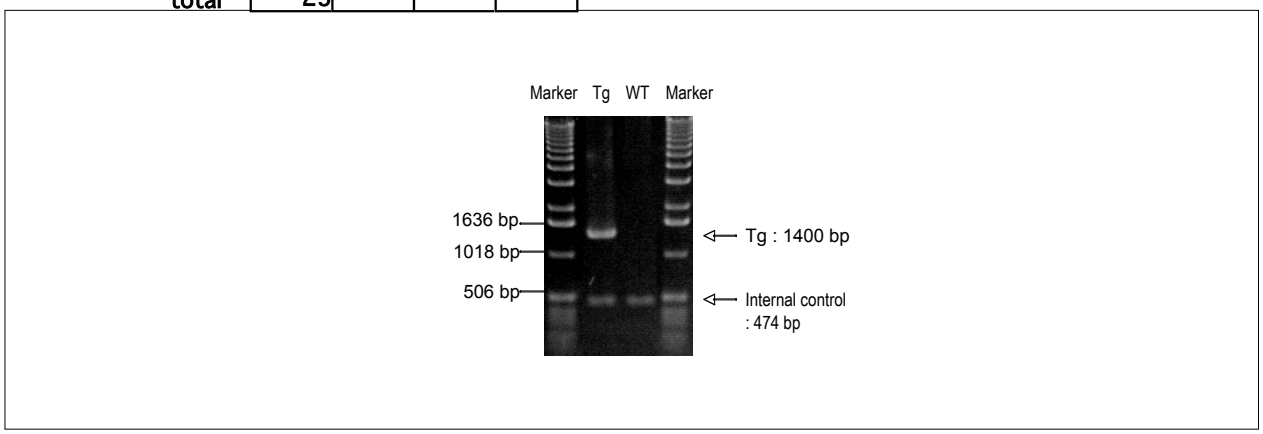
Reaction Components

Enzyme: TaKaRa Ex Taq (Cat. No. RR001A)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		16.3			
PCR buffer	10 X	2.5			
dNTP	2.5 mM	2.0			
primer 1	10 pmol/μl	0.5			
primer 2	10 pmol/μl	1.5			
primer 3	10 pmol/μl	1.0			
DNA		1.0			
Taq		0.2			
	total	25			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30*	
3	57	30*	
4	72	120*	*Repeat for 30 cycles
5	72	300	



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	1400 bp	Tg
primer 2	primer 3	474 bp	Internal control

Comment