

PCR protocol

Sheet ID PS_03699
Release date : 11/21/2014
Print date : 11/21/2014

RBRC 04400

Strain name aquaporin 4 (GFP)-4 (Acc.No. CDB0758K-1)

Primer	primer_name	primer_seq	length	
1	E1-WT-S	CTTTCAAAGGAGTCTGGACTCAGGC	25	Depositor's primer
2	E1-C-AS	CCAACCACACTGGGAGGTGTGACC	24	Depositor's primer
3	819	GAGAAGCGCGATCACATGGTCCT	23	

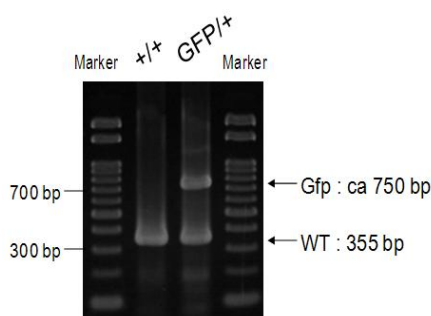
Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

Reaction Conditions

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		12.3			
PCR buffer	10 X	2.0			
dNTP	2.5 mM	1.6			
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	5U/ μ l	0.1			
total		20			

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



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	355 bp	WT
primer 2	primer 3	ca 750 bp	Gfp

Comment