

PCR protocol

RBRC 04746 **Strain name** STOCK Tg(aMHC-GCaMP2)53Bsi

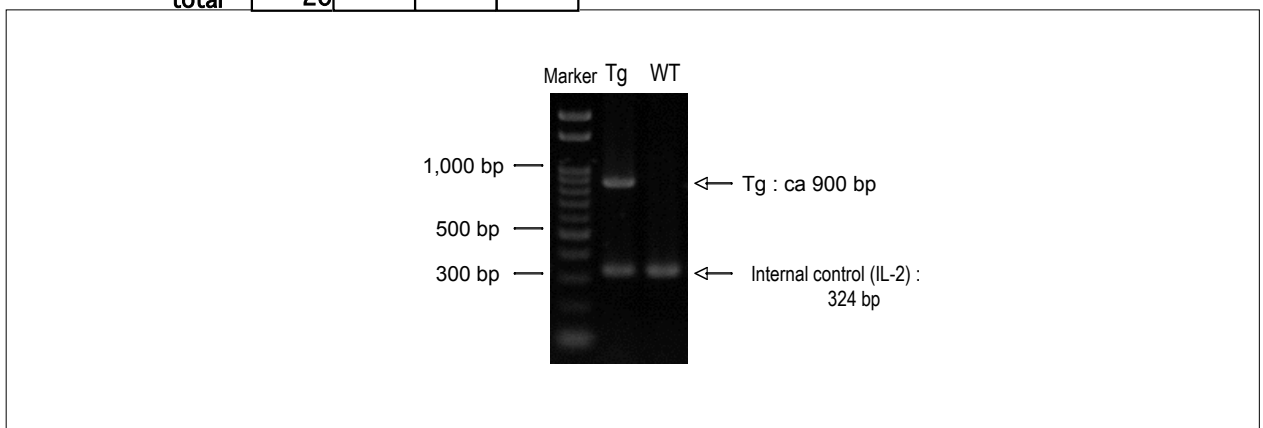
Primer	primer_name	primer_seq	length	
1		CACATAGAAGCCTAGCCCACA	21	Proc Natl Acad Sci U S A. 1996 Sep 17;93
2	3.1-EYFP3	GCGGACTTGAAGAAGTCGTG	20	Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	JAX Genotyping Protocol

Reaction Components
Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

Reaction Conditions

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		11.3			
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			
primer 4	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	ca 900 bp	Tg
	primer 3	primer 4	324 bp	Internal control (IL-2)

Comment