PCR protocol

RBRC 04103 **Strain name** C;B6-Tg(CTD2-2521M24)GNKTG01Rin

Primer	primer_name	primer_seq	length		
1	hBST2end3'-1F	CTGGGAAGGATTGGGTGAGA	20		Depositor's primer
2	hBST2end3'-1R	CCAAACAGAACCAAAACTCCTCAA	24		Depositor's primer
3	hmid-side F1	AGGCGGTGGGAGGGACAAGAATC	23		Depositor's primer
4	hmid-side R1	ATGCCCAGCGAGAGTTTCAAGAT	23		Depositor's primer
5	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
6	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

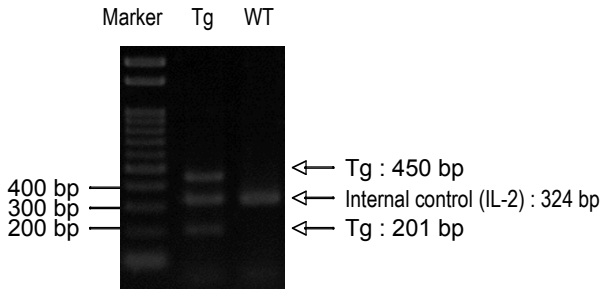
Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		9.3			
PCR buffer	10 X	2.0			
dNTP	2.5 mM	1.6			
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			
primer 5	10 pmol/μl	1.0			
primer 6	10 pmol/μl	1.0			
DNA		1.0			
Taq		0.1			
	total	20			

Reaction Conditions

step	temp (℃)	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	201bp	Tg
primer 3	primer 4	450 bp	Tg
primer 5	primer 6	324 bp	Internal control (IL-2)

Comment