

PCR protocol

RBRC 02737

Strain name C57BL/6J-Tg(Dsg3TCR164)1

Primer	primer_name	primer_seq	length		
1		gCCCGGGCTTGCATGGCAAGAGATTGCAAGT	31		Depositor's primer
2		gccgcggCTGGATCCTGTATTCAATGTGCCTCCC	35		Depositor's primer
3		GTCTCGAGtttctctttaactaatgcc	29		Depositor's primer
4		gccgcggCGAGGAGCCGAGTGCCTGGCCCAA	32		Depositor's primer
5	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	Internal control (IL-2)	JAX Genotyping Protocol
6	oIMR0043	GTAGGTGAAATTCTAGCATCATCC	25	Internal control (IL-2)	JAX Genotyping Protocol

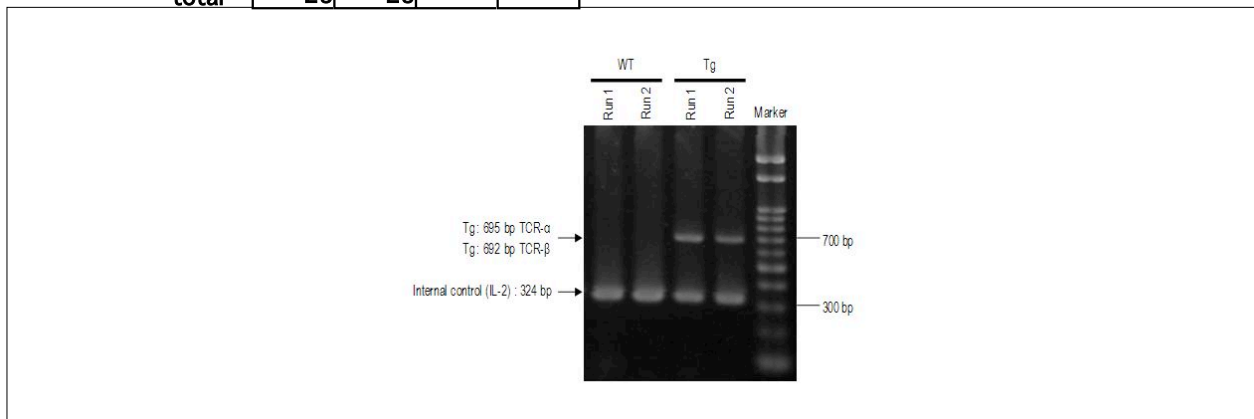
Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

Reaction Conditions

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	

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		15.3	15.3		
PCR buffer	10 X	2.5	2.5		
dNTP	2.5 mM	2.0	2.0		
primer 1	10 pmol/μl	1.0	0		
primer 2	10 pmol/μl	1.0	0		
primer 3	10 pmol/μl	0	1.0		
primer 4	10 pmol/μl	0	1.0		
primer 5	10 pmol/μl	1.0	1.0		
primer 6	10 pmol/μl	1.0	1.0		
DNA		1.0	1.0		
Taq		0.2	0.2		
total		25	25		



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	695 bp	Tg (alpha-chain)
primer 3	692 bp	Tg (beta-chain)
primer 5	324 bp	Internal control (IL-2)

Comment