

# PCR protocol

RBRC 02739

Strain name C57BL/6J-Tg(Dsg3TCR164)3

Primer	primer_name	primer_seq	length	
1		gCCCGGGCTTGCATGGCAAGAGATTGCAAGT	31	Depositor's primer
2		GTCTCGAGTttctcttttaactaatgccc	29	Depositor's primer
3		gccgcgCTGGATCCTGTATTCAATGTGCCTCCC	35	Depositor's primer
4		gccgcgCGAGGAGCCGAGTGCCTGGCCAAA	32	Depositor's primer
5	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	JAX Genotyping Protocol
6	oIMR0043	GTAGGTGAAATTCTAGCATCATCC	25	JAX Genotyping Protocol

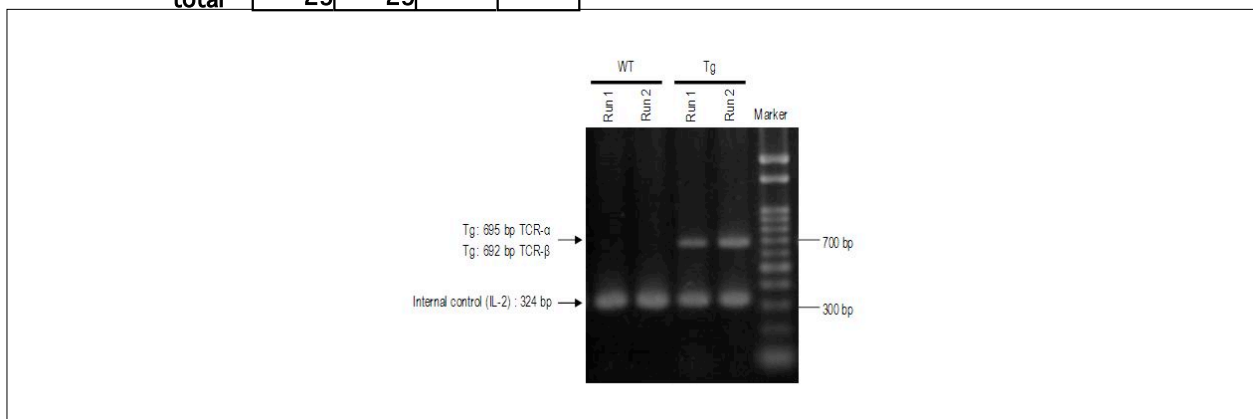
### Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

### Reaction Conditions

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		15.3	15.3		
PCR buffer	10 X	2.5	2.5		
dNTP	2.5 mM	2.0	2.0		
primer 1	10 pmol/ $\mu$ l	1.0	0		
primer 2	10 pmol/ $\mu$ l	0	1.0		
primer 3	10 pmol/ $\mu$ l	1.0	0		
primer 4	10 pmol/ $\mu$ l	0	1.0		
primer 5	10 pmol/ $\mu$ l	1.0	1.0		
primer 6	10 pmol/ $\mu$ l	1.0	1.0		
DNA		1.0	1.0		
Taq		0.2	0.2		
<b>total</b>		<b>25</b>	<b>25</b>		

step	temp ( $^{\circ}$ 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	695 bp	Tg (alpha-chain)
primer 2	692 bp	Tg (beta-chain)
primer 5	324 bp	Internal control (IL-2)

### Comment