

PCR protocol

RBRC 02884 **Strain name** FVB/N-Tg(Pitx3-cre/ESR1)1Ydq

Primer	primer_name	primer_seq	length		
1		CCGTGGCACTAGGCATAAGC	20		Depositor's primer
2		CAGCATTGCTGTCACTTGGTC	21		Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	Internal control (IL-2)	JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	Internal control (IL-2)	JAX Genotyping Protocol

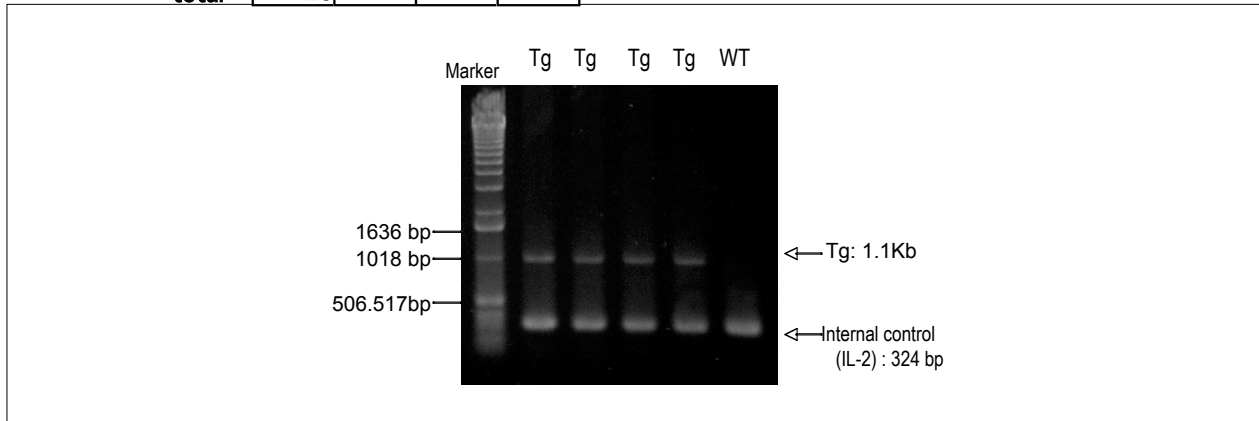
Reaction Components

Reaction Conditions

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		15.3			
PCR buffer	10 X	2.5			
dNTP	2.5 mM	2.0			
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		0.2			
total		25			

step	temp (°C)	time (sec)	note
1	94	180	
2	94	30*	
3	60	30*	
4	72	60*	*Repeat for 35 cycles
5	72	300	



Marker
 1 kb DNA ladder (Invitrogen, Cat. 15615-024)
Gel
 1% agarose in 1 X TAE (100 V, 30 min)

PCR products		product_size	product
primer 1	primer 2	1,100 bp	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment