

# PCR protocol

RBRC 02936

Strain name C57BL/6-Tg(Olfr16-Olr226,-Prkar1a\*AB,-EYFP)1Hsak

Primer	primer_name	primer_seq	length		
1	IRES-F	CGGTGCACATGCTTTACATGTG	22		Depositor's primer
2	dnPKA-R	AGCAGGGCCTGGATATTGTG	20		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

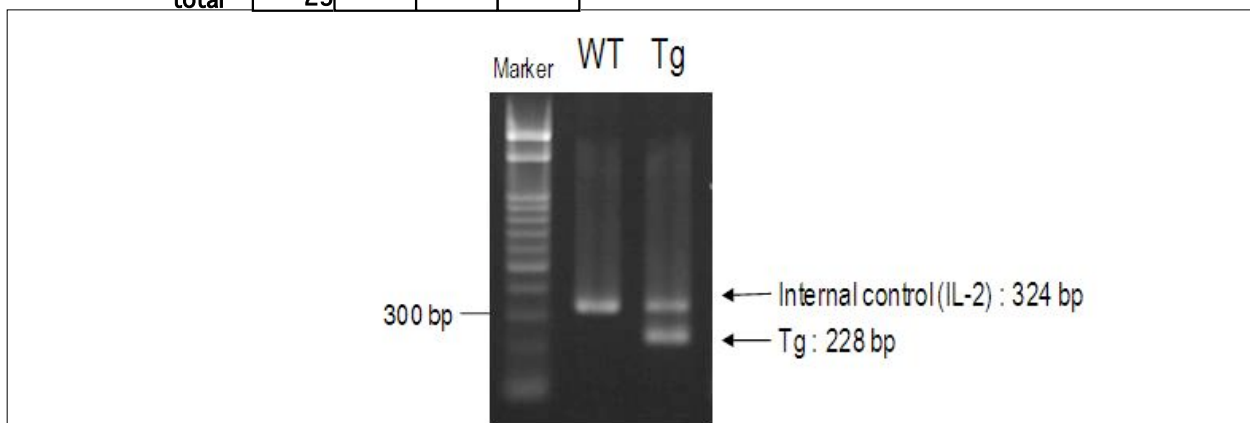
Enzyme 

TaKaRa Ex Taq (Cat. No. RR001A)
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## Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	180	
2	94	30*	
3	63	30*	
4	72	60*	*Repeat for 30 cycles
5	72	300	

	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/ $\mu$ l	1.0			
primer 2	10 pmol/ $\mu$ l	1.0			
primer 3	10 pmol/ $\mu$ l	1.0			
primer 4	10 pmol/ $\mu$ l	1.0			
DNA		1.0			
Taq		0.2			
<b>total</b>		<b>25</b>			



**Marker**  
100 bp ladder (Invitrogen, Cat. 15628-050)

**Gel**  
2% agarose in 1 X TAE (100 V, 30 min)

PCR products		product_size	product
primer_1	primer_2	228 bp	Tg
primer_3	primer_4	324 bp	Internal control (IL-2)

Comment