PCR protocol

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RBRC 09608 **Strain name** C57BL/6-Tg(Per1-luc)Chron

Primer	primer_name	primer_seq	length		
1	03926_F	TTTTGTAGTACTGGCTTCCTGG	22		Proc Natl Acad Sci USA, 99(1); 489-494(2002).
2	Firefly luc t F658	AGAATCTCACGCAGGCAGTT	20		Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

Reaction Components

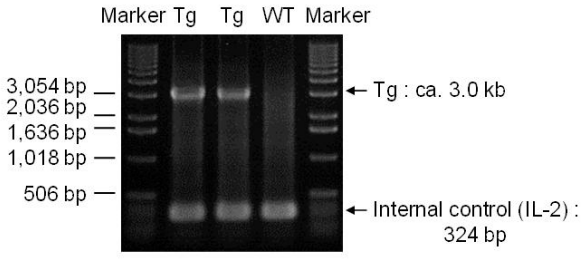
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		0.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
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			
DNA		1.0			
Taq	1 U/μl	0.2			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	30	*
4	68	240	* *Repeat for 30 cycles

Standard PCR



Marker

1 kb DNA ladder (Invitrogen, Cat. 15615-024)

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 2	ca. 3.0 kb	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment Novagen KOD Xtreme™ Hot Start DNA Polymerase can be purchased from EMD.