



PCR protocol

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RBRC 09640

Strain name ICR.Cg-Tg(ARE-rluc)3Tysn

Primer	primer_name	primer_seq	length	Reference
1	HS4	GCACGGGATCGCTTTCCTCTGAAC	24	RIKEN BRC
2	renilla-Luc RP	TTCAGCACGCGCTCCACGAAGCT	23	Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	JAX Genotyping Protocol

Reaction Components

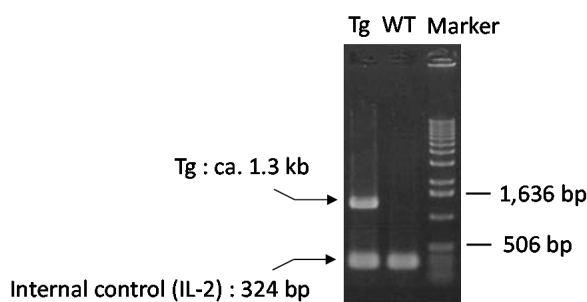
Enzyme	TOYOBO KOD FX (Code.No : KFX-101)
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Reagent	Conc	Reaction 1	2	3	4
H2O		0.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/ μ l	1.0			
primer 2	10 pmol/ μ l	1.0			
primer 3	10 pmol/ μ l	1.0			
primer 4	10 pmol/ μ l	1.0			
DNA		1.0			
Taq	1 U/ μ l	0.2			
total		20			

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	180*	*Repeat for 30 cycles

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



primer_set	product_size	product (allele type)
primer 1	primer 2	ca. 1.3 kb
primer 3	primer 4	324 bp

Comment

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