

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

RBRC 05667

Strain name B10.Cg-H2<k> Tg(H2-Ea-Cd74/MCC)37GNnak

Primer	primer_name	primer_seq	length	Reference
1	TG-u	GCAACGTGCTGGTTATTGTGCTGTCT	26	Depositor' s primer
2	TG-d	TTCGTTAGCTCCGGACTTCTTCTCCT	26	Depositor' s primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	JAX Genotyping Protocol

Reaction Components

Enzyme	TaKaRa Ex Taq (Cat. No. RR001A)
--------	---------------------------------

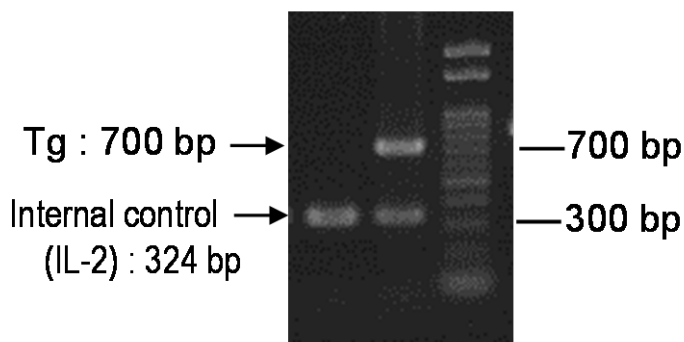
Reaction Conditions

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

Reagent	Conc	Reaction 1	2	3	4
H2O		11.3			
PCR buffer	10 X	2.0			
dNTP	2.5 mM	1.6			
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	5 U/ μ l	0.1			
total		20			

Marker	Gene Ladder 100 (Wako, Cat. 316-06951)
Gel	2% agarose in 1 X TAE (100 V, 30 min)

WT Tg Marker



primer_set	product_size	product (allele type)
primer 1	primer 2	700 bp
primer 3	primer 4	324 bp

Comment Standard PCR