



PCR protocol

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RBRC 05452

Strain name B6.Cg-Nlgn3<tm1.1(tetO)Rh>

Primer	primer_name	primer_seq	length	Reference
1	NlgnU-465	GGGCTGGATGTTGCAATTGGAGTT	24	Depositor's primer
2	NlgnL420	TCCGTGGGCACATACACATTTCAGA	24	Depositor's primer
3	tetOup	AGCAGAGCTCGTTTAGTGAACCGT	24	Depositor's primer

Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

Reaction Conditions

step temp (°C) time (sec) note

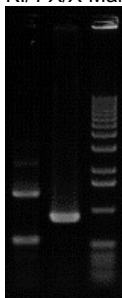
1	94	180	
2	94	30*	
3	60	30*	
4	72	60*	*Repeat for 30 cycles
5	72	300	

Reagent	Conc	Reaction 1	2	3	4
H2O		12.3			
PCR buffer	10 X	2.0			
dNTP	2.5 mM	1.6			
primer 1	10 pmol/μl	1.0			
primer 2	10 pmol/μl	1.0			
primer 3	10 pmol/μl	1.0			
DNA		1.0			
Taq	5 U/μl	0.1			
total		20			

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

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

KI/Y X/X Marker



KI : 1,400 bp →
WT : 911 bp →
KI : 550 bp →

— 1,636 bp
— 1,018 bp
— 506 bp

primer_set	product_size	product (allele type)
primer 1	primer 2	911 bp
primer 1	primer 2	1400 bp
primer 3	primer 2	550 bp

Comment Standard PCR