PCR protocol

Sheet ID PS_04983
Release date : 10/23/2019
Print date : 10/23/2019

RBRC 05655 **Strain name** B6;129P2-Cbl<tm1(CBL*Q367P)Homy>

Primer	primer_name	primer_seq	length		Reference
1	Cbl-GT-F2	GAGATCGAGAACCTCATGAGTCAGGGGTAC	30		Depositor's primer
2	Cbl-GT-R2	GGTAAAGAGCACTTGTTCTTGCGGAAGACC	30		Depositor's primer
3	Cbl-GT-F4	TGGTGTCACGTGAAGTTGTTAGTCAAAAGC	30		Depositor's primer
4	Cbl-GT-R4	GTAACAAGGGTCTGAAGGGGTAACTCTTTG	30		Depositor's primer

Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

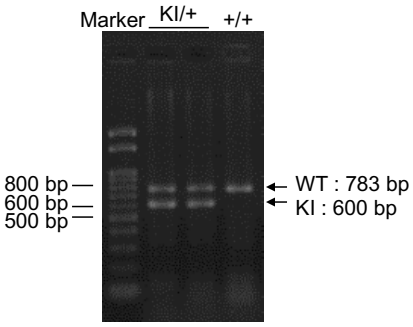
Reagent	Conc	Reaction 1	2	3	4	
H2O		11.3				(μL)
PCR buffer	10 X	2.0				
dNTP	2.5 mM	1.6				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq	5 U/μl	0.1				
	total	20				

Reaction Conditions

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

Marker Gene Ladder 100 (Wako, Cat. 316-06951)

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



primer_set		product_size	product (allele type)	
primer 1	primer 2	600 bp	KI	+/+ (wild-type): 783 bp KI/+ (heterozygous): 783 bp and 600 bp
primer 3	primer 4	783 bp	WT	

Comment