PCR protocol

Sheet ID PS_07307
Release date : 5/6/2022
Print date : 5/6/2022

RBRC 02820

Strain name B6;129-Gab1<tm1Nmoc>

Primer	primer_name	primer_seq	length		Reference
1	Gab1 1178Upper	GCGCCTTCTTTGCATCACCTCATCT	25		Depositor's primer
2	Gab1 1356Lower	GGTAAAGCAGGTCTAGGTGGCTGACAGTCT	30		Depositor's primer
3	intron 2 R	GCCTACACAATAGTAATAGTGGATGTC	27		RIKEN BRC

Reaction Components

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

Reagent	Conc	Reaction 1	2	3	4
H2O		1.8			
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			
DNA		1.0			
Taq	1 U/μl	0.2			
	total	20			

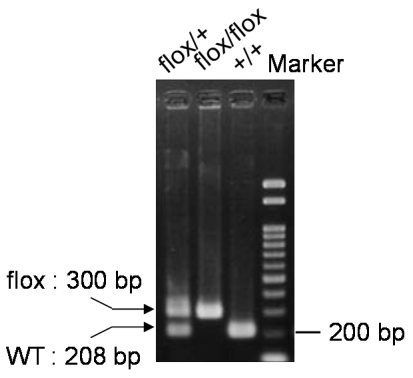
(μL)

Reaction Conditions

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

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	208 bp	WT
primer 1	primer 2	300 bp	flox
primer 1	primer 3	2.0 kb	null (After cre mediated excision)

Comment Standard PCR

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

PCR protocol

Sheet ID PS_04464
Release date : 02/03/2012
Print date : 5/6/2022

RBRC 02820

Strain name B6;129-Gab1<tm1Nmoc>

Primer	primer_name	primer_seq	length		Reference
1	Gab1 1178Upper	GCGCCTTCTTTGCATCACCTCATCT	25		Depositor's primer
2	Gab1 1356Lower	GGTAAAGCAGGTCTAGGTGGCTGACAGTCT	30		Depositor's primer

Reaction Components

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

Reagent	Conc	Reaction 1	2	3	4
H2O		2.8			
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			
DNA		1.0			
Taq	1 U/μl	0.2			
	total	20			

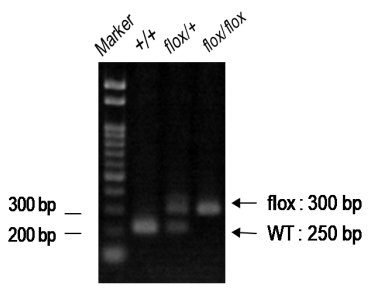
(μL)

Reaction Conditions

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

Marker: 100 bp ladder (Invitrogen, Cat. 15628-050)

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



primer_set		product_size	product (allele type)
primer 1	primer 2	250 bp	WT
primer 1	primer 2	300 bp	flox

Comment Standard PCR