PCR protocol

Sheet ID PS_06831
Release date : 4/18/2016
Print date : 4/18/2016

RBRC 06211 **Strain name** B6.129-Piga<tm1>

Primer	primer_name	primer_seq	length		
1	G4	ACCTCCAAAGACTGAGCTGTTG	22		Proc. Nat.l Acad. Sci. U S A, 94, 7400-5 (1997).
2	G3	CCTGCCTTAGTCTTCCCAGTAC	22		Proc. Nat.l Acad. Sci. U S A, 94, 7400-5 (1997).
3	Pigalox	TGTGGGTTTCAGTTCATTTCAGA	23		Proc. Nat.l Acad. Sci. U S A, 94, 7400-5 (1997).

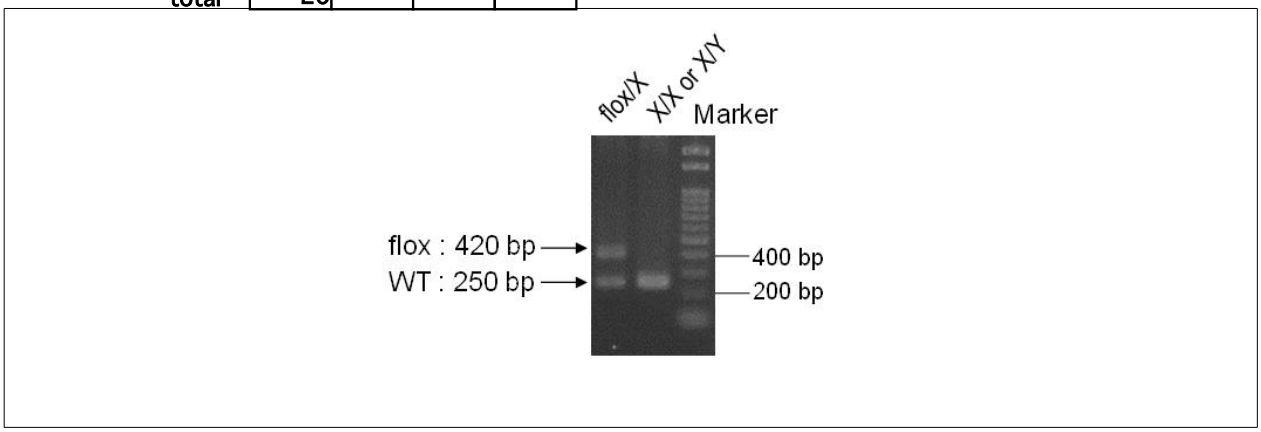
Reaction Components

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

	Conc	Run 1	Run 2	Run 3	Run 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			

Reaction Conditions

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



Marker

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

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 2	250 bp	WT
primer 1	primer 2	420 bp	flox
primer 1	primer 3	550 bp	null

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