PCR protocol

Sheet ID PS_07934
Release date : 4/15/2020
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RBRC 10895 **Strain name** B6.129S-Gjc1<tm2.1Kni>

Primer	primer_name	primer_seq	length		Reference
1	intron 2	CCTTAATTACTTTAATGCTTTGTTACCTG	29		RIKEN BRC
2	exon 3	GAGTCAGGAAGCTCCAACTC	20		RIKEN BRC

Reaction Components

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

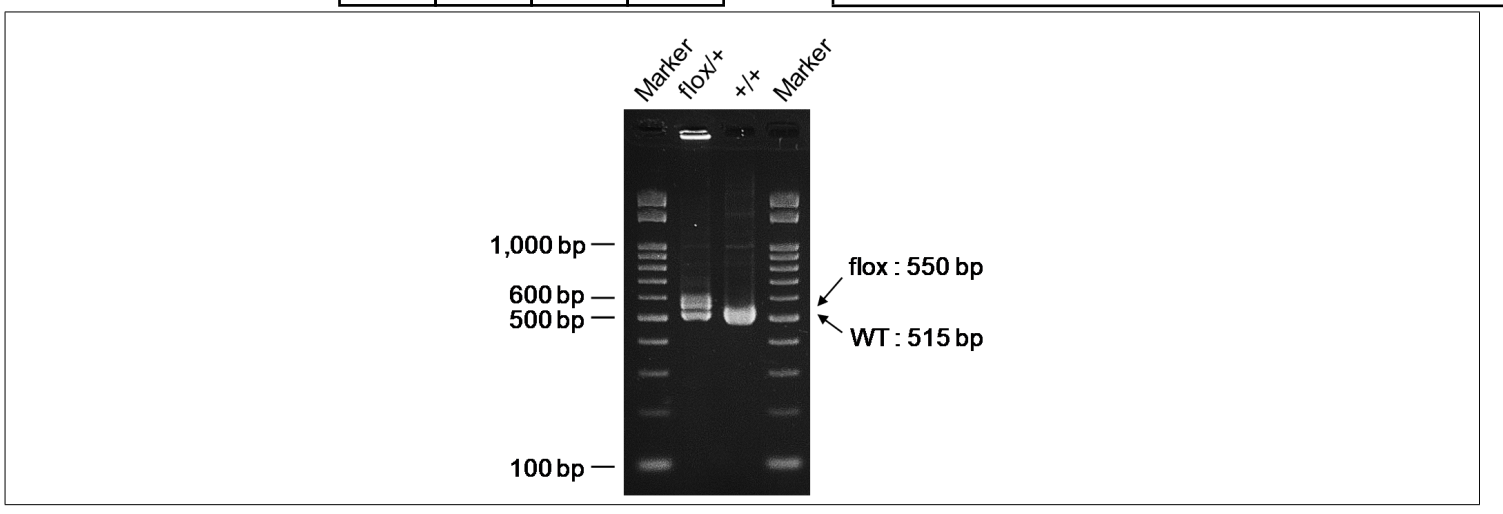
Reagent	Conc	Reaction 1	2	3	4	
H2O		2.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
total		20				

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 3% Nusieve in 0.5 X TBE (100 V, 50 min)



primer_set		product_size	product (allele type)	
primer 1	primer 2	515 bp	WT	+/+ (wild-type): 515 bp flox/+ (heterozygous): 515 bp and 550 bp flox/flox (homozygous): 550 bp
primer 1	primer 2	550 bp	flox	

Comment Standard PCR

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