PCR protocol

Sheet ID PS_08594
Release date : 3/29/2024
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RBRC 12165 **Strain name** B6.Cg-Odf2<tm1Ktos>

Primer	primer_name	primer_seq	length		Reference
1	13:mODF2:KOS-5	CGGAATGAAAGGGGACACCGTGAATGTACG	30		Depositor's primer
2	14:mODF2:KCR-4	AAGTCTGAGGCCTGCTAGAATCTGACTGAC	30		Depositor's primer
3	12:en 2-a	AGCGGATCTCAAACTCTCCTC	21		Depositor's primer

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			

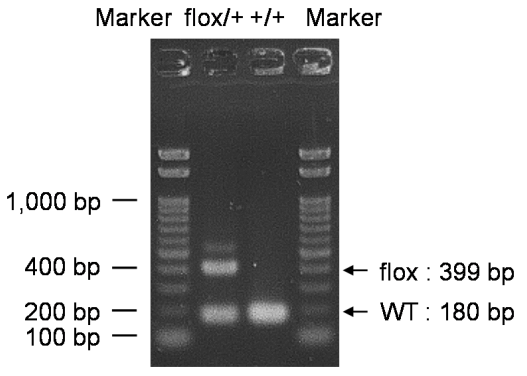
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	60*	*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	180 bp	WT
primer 1	primer 3	399 bp	flox

Comment

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