

RBRC 10320

Strain name B6;Cg-Kdm2a<tm1.1Hko>

Primer	primer_name	primer_seq	length	Reference
1	Fbxl11-U61179	GGAGTTTAGTAGGCCAGTGTC	21	Depositor's primer
2	Fbxl 11-L65670	GGCTGAATTCTAATTTGCTGGAC	23	Depositor's primer
3	Fbxl 11-U64988	CCTGGAAATGTGACATAGAAC	21	Depositor's primer

Reaction Components

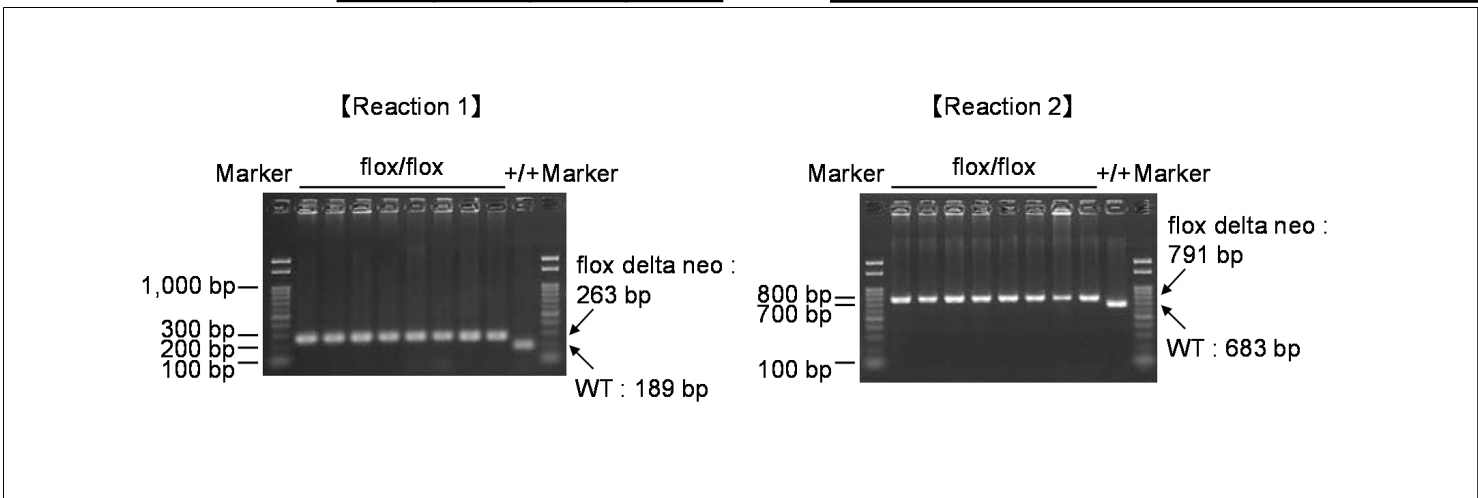
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reaction Conditions

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

Reagent	Conc	Reaction 1	2	3	4	(μ L)
H2O		2.8	2.8			
PCR buffer	2 X	10.0	10.0			
dNTP	2.0 mM	4.0	4.0			
primer 1	10 pmol/ μ l	1.0	0			
primer 2	10 pmol/ μ l	1.0	1.0			
primer 3	10 pmol/ μ l	0	1.0			
DNA		1.0	1.0			
Taq	1 U/ μ l	0.2	0.2			
total		20	20			

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	189 bp	WT
primer 1	primer 2	263 bp	flox delta neo
primer 2	primer 3	683 bp	WT
primer 2	primer 3	791 bp	flox delta neo
primer 2	primer 3	198 bp	null (After cre mediated excision)

Reaction 1
+/+ (wild-type): 189 bp
flox/flox (homozygous): 263 bp
Reaction 2
+/+ (wild-type): 683 bp
flox/flox (homozygous): 791 bp

Comment Standard PCR

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