

RBRC 10306

Strain name C57BL/6-Foxc2<tm1.1Motoj>

Primer	primer_name	primer_seq	length	Reference
1	vii	ACCTGGTTCCTGCCAAGT	18	Mamm. Genome, 27 (1-2) 62-69 (2016).
2	viii	CCACTTTCTGCCTGCGTATG	20	Mamm. Genome, 27 (1-2) 62-69 (2016).
3	ix	CGCAGAAAGCGACGGAA	17	Mamm. Genome, 27 (1-2) 62-69 (2016).
4	x	ACAAAGACACTGTCCGAAC	20	Mamm. Genome, 27 (1-2) 62-69 (2016).

Reaction Components

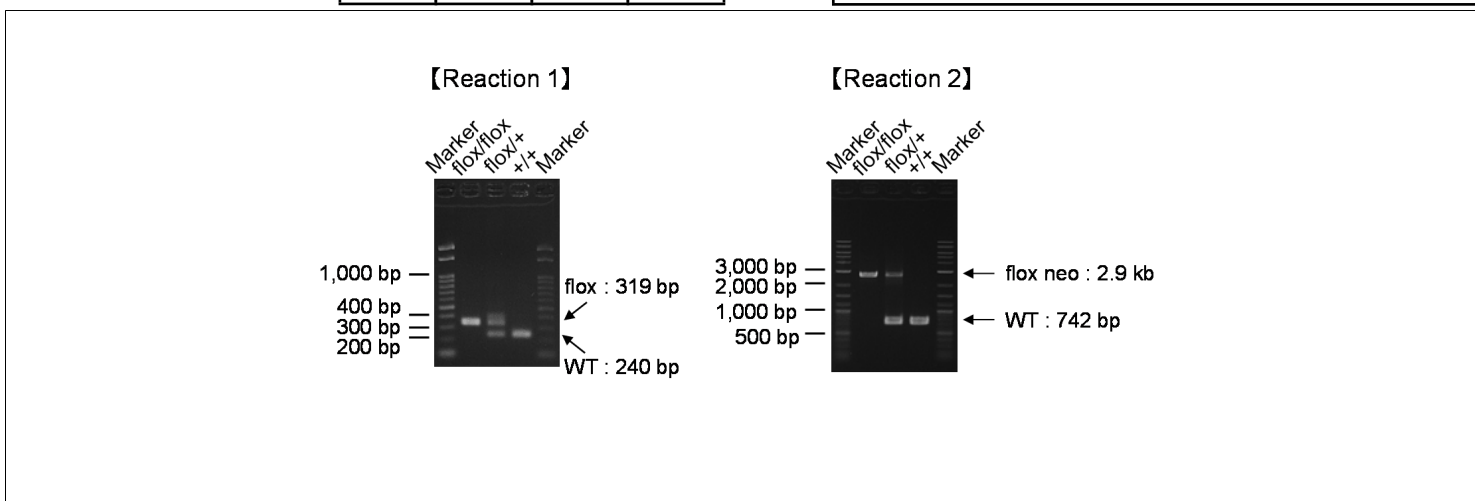
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reagent	Conc	Reaction 1	2	3	4	
H2O		2.8	2.8			(μ L)
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	0			
primer 3	10 pmol/ μ l	0	1.0			
primer 4	10 pmol/ μ l	0	1.0			
DNA		1.0	1.0			
Taq	1 U/ μ l	0.2	0.2			
total		20	20			

Reaction Conditions

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

Marker marker Run1: Gene Ladder 100 (Wako, Cat. 316-06951), marker Run2: 2-Log DNA Ladder (NEB, Cat. N3200)
Gel Run1:2% agarose in 1 X TAE (100 V, 30 min)Run2:1% agarose in 1 X TAE (100 V, 30 min)



primer_set	product_size	product (allele type)	
primer 1	primer 2	240 bp	WT
primer 1	primer 2	319 bp	flox
primer 3	primer 4	742 bp	WT
primer 3	primer 4	2.9 kb	flox neo

Comment

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