

RBRC 11392

Strain name B6.Cg-Ebf1<tm1.1Tng>

Primer	primer_name	primer_seq	length	Reference
1	Ebf1_flox_F1	ACTTCTTGAGGCCTGTGTTGCTTG	24	Depositor's primer
2	Ebf1_flox_R1	AGCCAGGACGCTCCTTCCCAG	21	Depositor's primer
3	intron 1	AGGAGAGGCCACCGGCTAGC	20	RIKEN BRC

Reaction Components

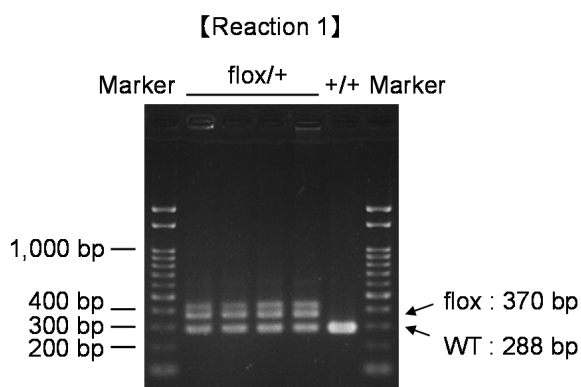
Enzyme	TOYOBO KOD FX (Code.No : KFX-101)
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Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	[Reaction 1]
2	98	10*	
3	65	30*	
4	68	60*	*Repeat for 30 cycles
1	94	120	[Reaction 2]
2	98	10*	
3	65	30*	
4	68	300*	*Repeat for 30 cycles

Reagent	Conc	Reaction 1	2	3	4
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/μl	1.0	1.0		
primer 2	10 pmol/μl	1.0	0		
primer 3	10 pmol/μl	0	1.0		
DNA		1.0	1.0		
Taq	1 U/μl	0.2	0.2		
total		20	20		

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	288 bp WT
primer 1	primer 2	370 bp flox
primer 2	primer 3	3,433 bp WT
primer 2	primer 3	3.6 kb flox delta neo

Comment

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