

RBRC 10296

Strain name B6.129-Itpr1<tm1.1Kmik>/274D

[illegible]

Reaction Components

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

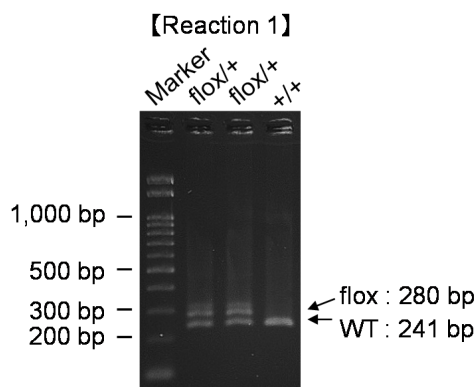
Reaction Conditions

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

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	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			
						Mark
						Gel
	total	20	20			

Marker	marker Run1: Gene Ladder 100 (Wako, Cat. 316-06951), marker Run2: 2-Log DNA Ladder (NEB, Cat. N3200)
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Gel	Run1: 3% Nusieve in 0.5 X TBE (100 V, 50 min) Run2: 1% agarose in 1 X TAE (100 V, 30 min)
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primer_set		product_size	product (allele type)
primer 1	primer 2	241 bp	WT
primer 1	primer 2	280 bp	flox
primer 2	primer 3	2,049 bp	WT
primer 2	primer 3	>2,049 bp	flox
primer 2	primer 3	~900 bp	null (After cre mediated excision)

Comment Standard PCR

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