

RBRC 11390

Strain name B6.Cg-Cxcl12<tm4.1Tng>

Primer	primer_name	primer_seq	length	Reference
1	PBSF/F1/754	TGGCAAACAAAGCTGGTAATAG	22	Depositor' s primer
2	PBSF3L/2401R	CTGCCCTAGTTATGCCAAGTCC	23	Depositor' s primer
3	SDF-1/Ex3+/94R	TGCACCAGCACAGCCTATTC	20	Depositor' s primer

Reaction Components

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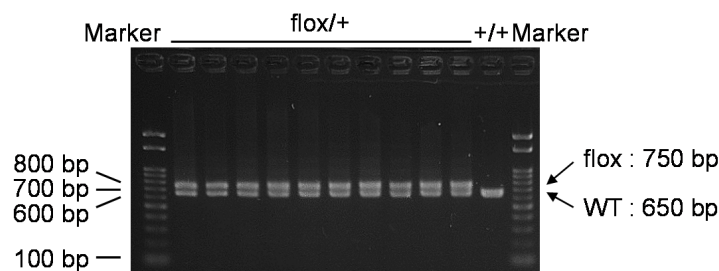
Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	[Reaction 1]
2	98	10*	
3	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		
PCR buffer	2 X	10.0	10.0		
dNTP	2.0 mM	4.0	4.0		
primer 1	10 pmol/ μ l	1.0	1.0		
primer 2	10 pmol/ μ l	1.0	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	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)

【Reaction 1】



primer_set	product_size	product (allele type)	
primer 1	primer 2	650 bp	WT
primer 1	primer 2	750 bp	flox
primer 1	primer 3	1,452 bp	WT
primer 1	primer 3	1.5 kb	flox
primer 1	primer 3	~1,000 bp	null (After cre mediated excision)

Reaction 1
+/+ (wild-type): 650 bp
flox/+ (heterozygous): 650 bp and 750 bp

Comment [Standard PCR](#)

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