

RBRC 10213

Strain name B6;Cg-Gcfc2<tm1.1Hko>

Primer	primer_name	primer_seq	length	Reference
1	Gcfc2-U26639	AGACGTTTCACCCATAGGTTG	21	Depositor's primer
2	Gcfc2-L27055	CAGGATAAATTCTTACCAGCTTC	23	Depositor's primer
3	Gcfc2-U24349	TACCGAACCCCTGCTGCACCAG	21	Depositor's primer

Reaction Components

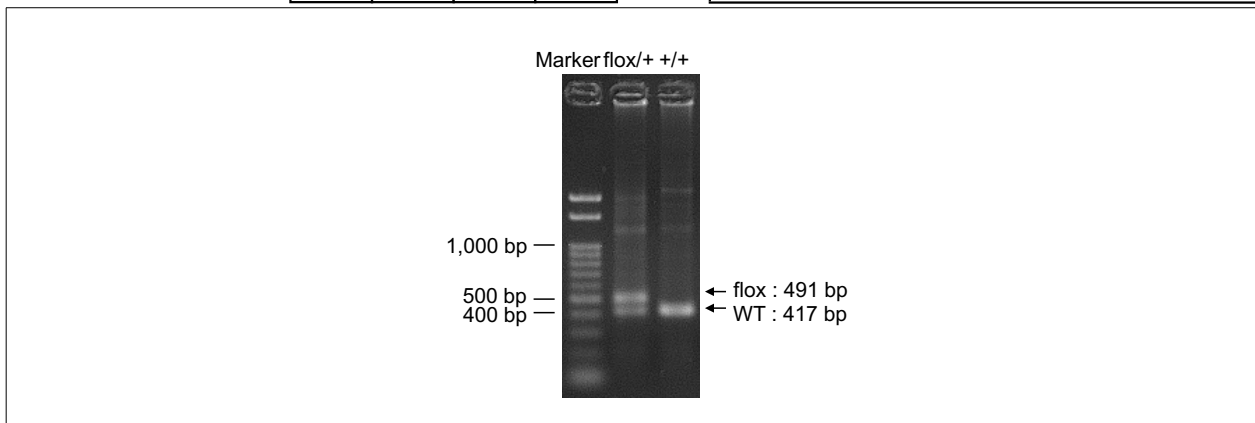
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reagent	Conc	Reaction 1	2	3	4	(μ L)
H2O		1.8				
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/ μ l	1.0				
primer 2	10 pmol/ μ l	1.0				
primer 3	10 pmol/ μ l	1.0				
DNA		1.0				
Taq	1 U/ μ l	0.2				
total		20				

Reaction Conditions

step	temp ($^{\circ}$ C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	60*	*Repeat for 30 cycles

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	417 bp	WT
primer 1 primer 2	491 bp	flox
primer 2 primer 3	284 bp	null (After cre mediated excision)

+/+ (wild-type): 417 bp
 flox/+ (heterozygous): 417 bp and 491 bp

Comment [Standard PCR](#)

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