PCR protocol

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RBRC 11590 **Strain name** C57BL/6-Cyfip2<tm1c(EUCOMM)Wtsi>/Tfur

Primer	primer_name	primer_seq	length		Reference
1	Cyfip2-FRT-53	CCTCCATCCCTTCTTCATTTCCTGCCA	27		Hum Mol Genet Sep 11(2021) ;ddab268. doi: 10.1093/hmg/ddab268.
2	Cyfip2-FRT-33	ACGAAACCACTGTAAGGGCTGAG	23		Hum Mol Genet Sep 11(2021) ;ddab268. doi: 10.1093/hmg/ddab268.

Reaction Components

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

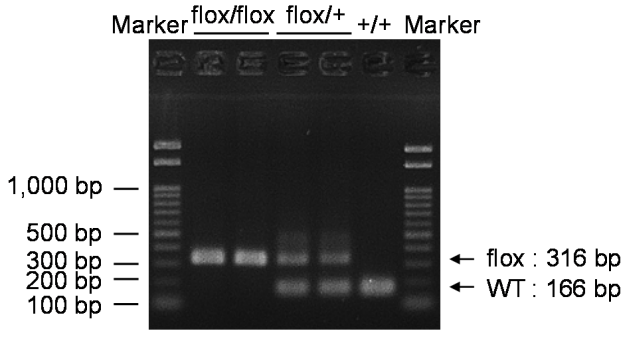
Reagent	Conc	Reaction 1	2	3	4	
H2O		2.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
DNA	10 pmol/μl	1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

step	temp (℃)	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	166 bp	WT	+/+ (wild-type): 166 bp flox/flox (homozygous): 316 bp flox/+ (heterozygous): 166 bp and 316 bp
primer 1	primer 2	316 bp	flox	

Comment Standard PCR

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