

RBRC 10383

Strain name B6.129P2-Pip5k1a<tm1Tba>

Primer	primer_name	primer_seq	length	Reference
1	5KA#1	GAGAAGAGAAGAAGAGAGGAGAGAGATAGAC	31	Biol. Reprod., 86(5) 136, 1-12 (2012).
2	5KA#2	GGGAGAATCACATCCATTTTACAGAC	26	Biol. Reprod., 86(5) 136, 1-12 (2012).
3	5KA#3	AATAAACGCACGGGTGTTGGGTCG	25	Biol. Reprod., 86(5) 136, 1-12 (2012).

Reaction Components

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

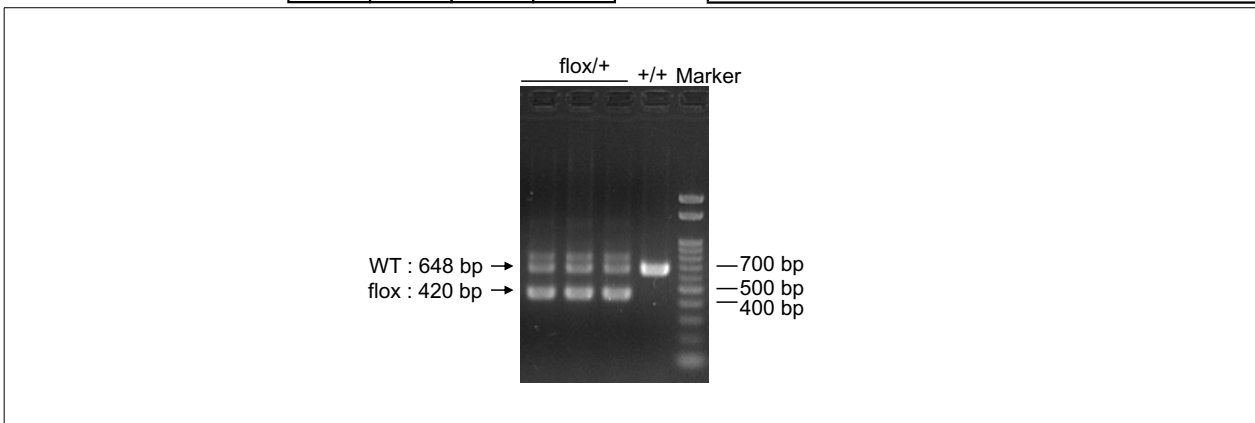
Reagent	Conc	Reaction 1	2	3	4	(μ L)
H2O		1.8				
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/ μ l	1.0				
primer 2	10 pmol/ μ l	1.0				
primer 3	10 pmol/ μ l	1.0				
DNA		1.0				
Taq	1 U/ μ l	0.2				
total		20				

Reaction Conditions

step	temp (°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	648 bp	WT
primer 3	primer 2	420 bp	flox

+/+ (wild-type): 648 bp
flox/+ (heterozygous): 648 bp and 420 bp

Comment [Standard PCR](#)

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