

RBRC 10732

Strain name C57BL/6-Ntng1<tm2.1lto>

Primer	primer_name	primer_seq	length	Reference
1	G1-l-5	GACTGGTATCTCTAAGTTACCTAGGCTG	28	Sci. Rep., 6:28750 (2016).
2	G1-l-3	CTTACATCCTTTTATAGCCCTCACATCTGC	30	Sci. Rep., 6:28750 (2016).
3	G1-frt-5	GAGAACGCTTGCTCAGGATCACTCCTTC	28	Sci. Rep., 6:28750 (2016).
4	G1-frt-5	CAGCCGTCCCAAAGTACACACTTAAAGGAG	30	Sci. Rep., 6:28750 (2016).

Reaction Components

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

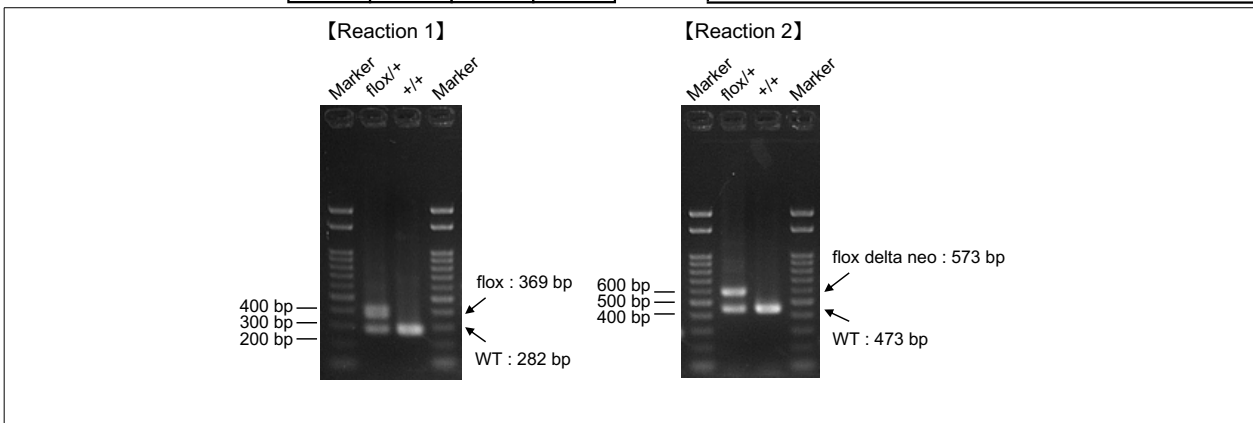
Reagent	Conc	Reaction 1	2	3	4
H2O		2.8	2.8		
PCR buffer	2 X	10.0	10.0		
dNTP	2.0 mM	4.0	4.0		
primer 1	10 pmol/μl	1.0	0		
primer 2	10 pmol/μl	1.0	0		
primer 3	10 pmol/μl	0	1.0		
primer 4	10 pmol/μl	0	1.0		
DNA		1.0	1.0		
Taq	1 U/μl	0.2	0.2		
total		20	20		

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	282 bp WT
primer 1	primer 2	369 bp flox
primer 3	primer 4	473 bp WT
primer 3	primer 4	573 bp flox delta neo
primer 1	primer 4	null (After cre mediated excision)

Comment [Standard PCR](#)

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