PCR protocol

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RBRC 06801 **Strain name** B6.Cg-Ncaph2<tm1.1Hiran>

Primer	primer_name	primer_seq	length		
1	Ncaph2 f1	GCCTCTGTCTTTGAGAGCTGGAG	23		PLoS Genet., 10(12):e1004847. (2014).
2	Ncaph2 r1	GTGGCGGCATGTGCCTGTAAG	21		PLoS Genet., 10(12):e1004847. (2014).
3	Ncaph2 r4	CAGGCAGCAGATGGAGCTCC	20		PLoS Genet., 10(12):e1004847. (2014).

Reaction Components

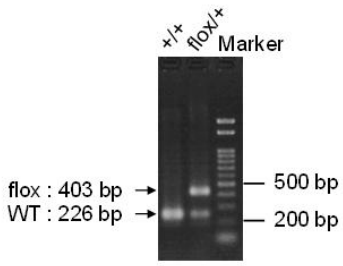
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		1.8			
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			
primer 3	10 pmol/μl	1.0			
DNA		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

Standard PCR



Marker

Gene Ladder 100 (Wako, Cat. 316-06951)

Gel

2% agarose in 1 X TAE (100 V, 30 min)

PCR products

primer_set		product_size	product
primer 1	primer 2	226 bp	WT
primer 1	primer 2	403 bp	flox
primer 1	primer 3	350 bp	null (After cre mediated excision)

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