PCR protocol

Sheet ID PS_02662
Release date : 5/6/2022
Print date : 5/6/2022

RBRC 01448 **Strain name** NEP HOM

Primer	primer_name	primer_seq	length		Reference
1	Wild	CAGCGACTCTGGCCACTCATCCAC	24		RIKEN BRC
2	common	CTCTAGTCGCAGTCCATACAGGGC	24		RIKEN BRC
3	Mut	GTCAGCAGCGACTCTGGCCACGC	23		RIKEN BRC

Reaction Components

Enzyme Roche Taq (Cat. No. BM1418432)

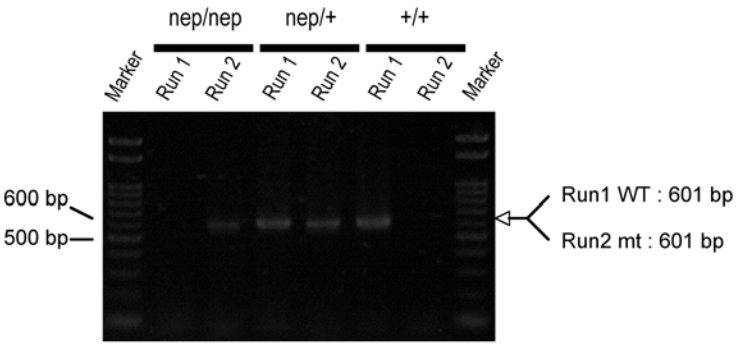
Reagent	Conc	Reaction 1	2	3	4	
H2O		17.3	17.3			(μL)
PCR buffer	10 X	2.5	2.5			
dNTP	2.5 mM	2.0	2.0			
primer 1	10 pmol/μl	1.0	0			
primer 2	10 pmol/μl	1.0	1.0			
primer 3	10 pmol/μl	0	1.0			
DNA		1.0	1.0			
Taq		0.2	0.2			
	total	25	25			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30	*
3	63	30	*
4	72	60	* *Repeat for 35 cycles
5	72	300	

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	601 bp	WT
primer 2	primer 3	601 bp	mutant

Comment Standard PCR

These primers were designed using the information of hea mice (Mamm. Genome., 17(5):407-416 (2006)).