PCR protocol

Sheet ID PS_04039
Release date : 5/9/2022
Print date : 5/9/2022

RBRC 01449

Strain name ICGNww/Oa

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		
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		

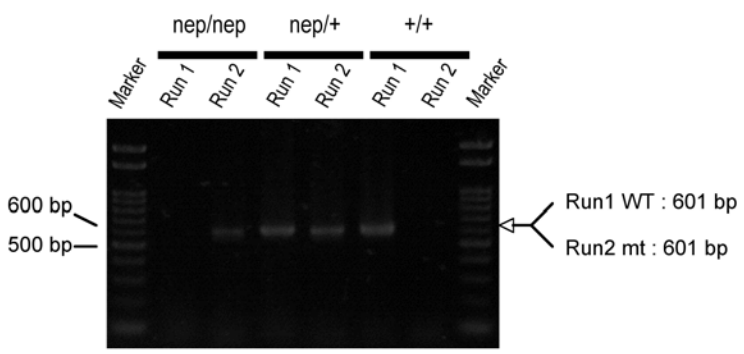
(μL)

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: 100 bp ladder (Invitrogen, Cat. 15628-050)

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)).

PCR protocol

Sheet ID PS_01638
Release date : 01/12/2010
Print date : 5/9/2022

RBRC 01449

Strain name ICGNww/Oa

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		
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		

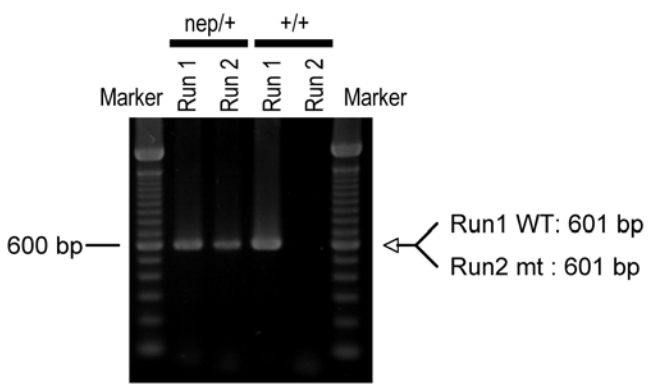
(μL)

Reaction Conditions

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

Marker: 100 bp ladder (Invitrogen, Cat. 15628-050)

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)).