



PCR protocol

Sheet ID PS_08102
Release date : 10/4/2022
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RBRC 11172

Strain name B6D2-2010109A12Rik<em1Nino>

Primer	primer_name	primer_seq	length	Reference
1	2010109A12Rik-F	GAGGGGAAATGGTGAAGGG	20	Depositor's primer
2	2010109A12Rik-WTR	CAAAACGCACTTTCCCTTTT	20	Depositor's primer
3	2010109A12Rik-KOR	ACACAAAACGCACTTTCCCA	20	Depositor's primer

Reaction Components

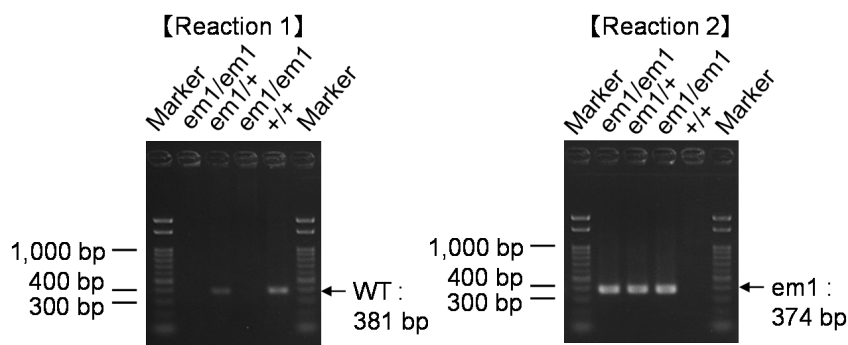
Enzyme	TOYOBO KOD FX (Code.No : KFX-101)
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Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	60*	*Repeat for 30 cycles

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	1.0		
primer 2	10 pmol/μl	1.0	0		
primer 3	10 pmol/μl	0	1.0		
DNA		1.0	1.0		
Taq	1 U/μl	0.2	0.2		
total		20	20		

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	381 bp	WT
primer 1	374 bp	em1

Comment [Standard PCR](#)

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