PCR protocol

Sheet ID PS_08167
Release date : 9/16/2022
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RBRC 11306

Strain name C3-Mpst<em1Rmps>

Primer	primer_name	primer_seq	length		Reference
1	intron 1	GCAGAGCCTGGCTCACCCAAG	21		RIKEN BRC
2	wt	GCCTTCAGAGCCTCCGCCACAC	22		RIKEN BRC
3	mut	CTCTGGTGTCTGCGCAGTGGAG	22		RIKEN BRC
4	exon 2	GGTCACTGTCGTCGTAGATCACG	23		RIKEN BRC

Reaction Components

Enzyme: QIAGEN Multiplex PCR Kit (Cat. No. 206143)

Reagent	Conc	Reaction 1	2	3	4
H2O		2.0	2.0		
Master Mix	2 X	5.0	5.0		
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		
	total	10	10		

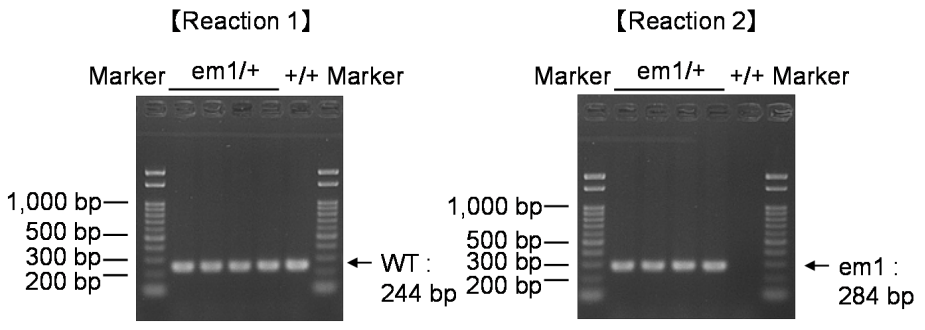
(μL)

Reaction Conditions

step	temp (℃)	time (sec)	note
1	95	900	
2	94	30 *	
3	65	90 *	
4	72	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	244 bp	WT
primer 3	primer 4	284 bp	em1

Comment