PCR protocol

Sheet ID PS_08332
Release date : 9/5/2022
Print date : 9/5/2022

RBRC 11518 **Strain name** C57BL/6-App<tm2(NL-F)Tcs> Psen1<em1(P117L)Tcs>

Primer	primer_name	primer_seq	length		Reference
1		CTCCTTGTGGCTGGCGGTCACAC	23		RIKEN BRC
2	common_1	CTATCGTGGACCGAGAATGGTCATG	25		RIKEN BRC
3	WT	GTTTCCCTCTGTAGAATCTACACCTC	26		RIKEN BRC
4	common	CCTCCCACACACACAAGGACAACC	24		RIKEN BRC
5	common	CCTTGGTTGACTGATGACCTGC	22		RIKEN BRC
6	MT	CAGTCTCAGTGTCTTCTGTGAAGA	24		RIKEN BRC

Reaction Components

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

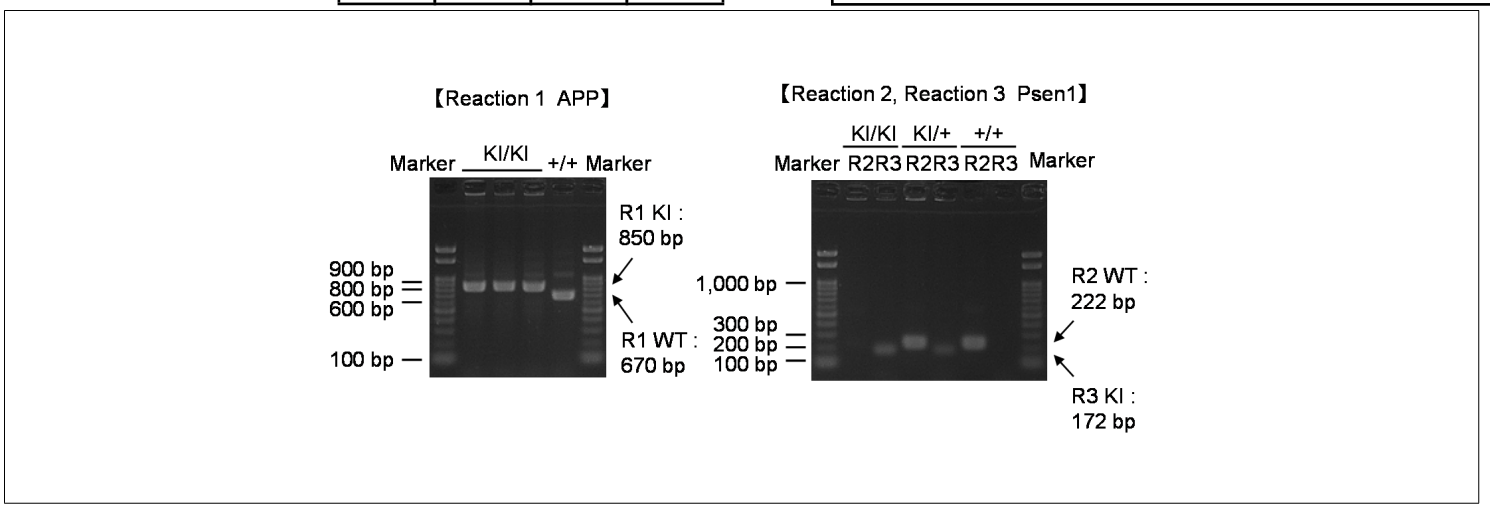
Reagent	Conc	Reaction 1	2	3	4	
H2O		2.0	2.0	2.0		(μL)
primer 1	10 pmol/μl	1.0	0	0		
primer 2	10 pmol/μl	1.0	0	0		
primer 3	10 pmol/μl	0	1.0	0		
primer 4	10 pmol/μl	0	1.0	0		
primer 5	10 pmol/μl	0	0	1.0		
primer 6	10 pmol/μl	0	0	1.0		
Master Mix	2 X	5.0	5.0	5.0		
DNA		1.0	1.0	1.0		
	total	10	10	10		

Reaction Conditions

step	temp (℃)	time (sec)	note
1	95	900	
2	94	30	*
3	60	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	670 bp	WT (App)	
primer 1	primer 2	850 bp	KI (App)	
primer 3	primer 4	222 bp	WT (Psen1)	
primer 5	primer 6	172 bp	KI (Psen1, em1)	

Comment Separated PCR