PCR protocol

Sheet ID PS_07756
Release date : 12/13/2021
Print date : 12/13/2021

RBRC 10447 **Strain name** B6.129S6-Mapk8ip1<tm1Rjd>/Tsuz

Primer	primer_name	primer_seq	length		Reference
1	JIP1_A	CGCGGTCTCAGGTGAGCAA	19		Depositor's primer
2	JIP1_B	CTGACTAGGCCTGTAAGAC	19		Depositor's primer
3	olMR0014	AGGTGAGATGACAGGAGATC	20		JAX Genotyping Protocol

Reaction Components

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

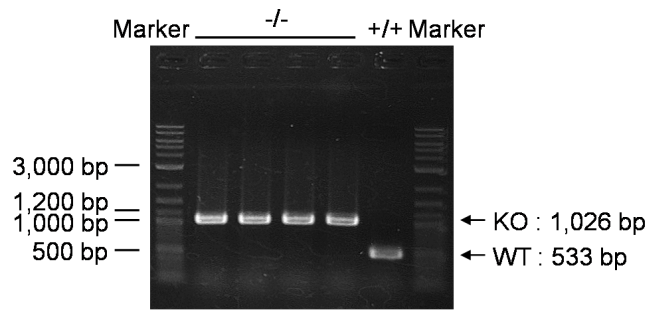
Reagent	Conc	Reaction 1	2	3	4	
H2O		1.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

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

Marker 2-Log DNA Ladder (NEB, Cat. N3200)

Gel 1% agarose in 1 X TAE (100 V, 30 min)



primer_set		product_size	product (allele type)	
primer 1	primer 2	533 bp	WT	+/+ (wild-type): 533 bp
primer 2	primer 3	1,026 bp	KO	-/- (homozygous): 1,026 bp

Comment Standard PCR

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