

RBRC 11440

Strain name JF1.129P2(B6)-Kdm6b<tm1.1Masn>

Primer	primer_name	primer_seq	length		Reference
1	p1_Jmjd3	ATGAACACCGTGCAGCTATACATG	24		Depositor's primer
2	Jmjd3 em R	CGCTGATGGTCTCCCAATAG	20		Depositor's primer
3	p3_Jmjd3	CATTTGGGTACCGAGCTCGAATTC	24		Depositor's primer

Reaction Components

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

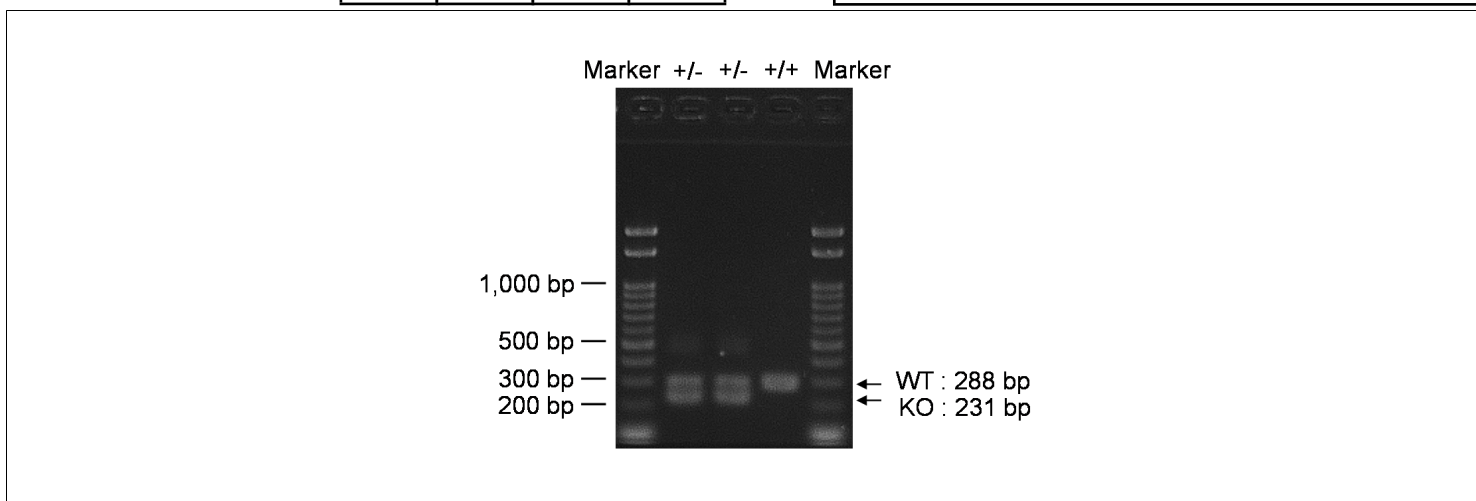
Reaction Conditions

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		1.8				(μ L)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/ μ l	1.0				
primer 2	10 pmol/ μ l	1.0				
primer 3	10 pmol/ μ l	1.0				
DNA		1.0				
Taq	1 U/ μ l	0.2				
total		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	primer 2	288 bp	WT
primer 1	primer 3	231 bp	KO
			+/+ (wild-type): 288 bp
			+/- (heterozygous): 288 bp and 231 bp

Comment Standard PCR

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