PCR protocol

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RBRC 05145 **Strain name** B6.129P2-Prdm9<tm1Ymat>

Primer	primer_name	primer_seq	length		
1	Meisetz KO-5'	AGGAATCTTCCTTCCTTGCTGTCG	24		Depositor's primer
2	Meisetz KO-3'	CGCCATTCAGGCTGCGCAACTGTT	24		Depositor's primer
3	179WT-3'	ATTTCCCTGTATCTTCTTCAGGACT	25		Depositor's primer

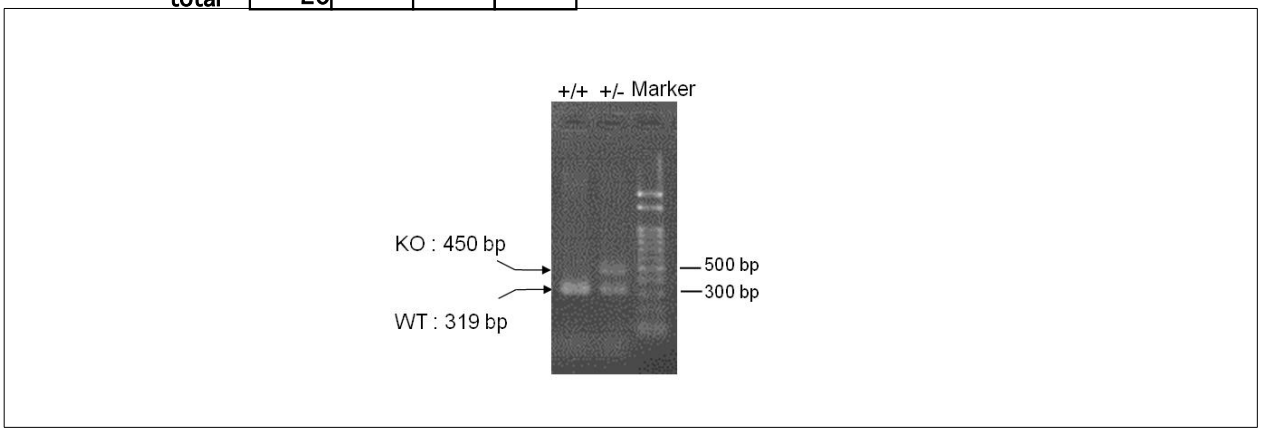
Reaction Components

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

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		1.8			
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

Gene Ladder 100 (Wako, Cat. 316-06951)

Gel

2% agarose in 1 X TAE (100 V, 30 min)

PCR products

primer_set		product_size	product
primer 1	primer 3	319 bp	WT
primer 1	primer 2	450 bp	KO

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