PCR protocol

Sheet ID PS_08264
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RBRC 11514 **Strain name** B6NJcl.Cg-Clstn3<tm1Tymo>

Primer	primer_name	primer_seq	length		Reference
1	intron 3	CCTGGATCACTGAGAGGCAGC	21		RIKEN BRC
2	intron 3	CCAGCCATCAAGGAAGCGGTG	21		RIKEN BRC
3	oIMR0214	CCGGAGAACCTGCGTGCAATCC	22		JAX Genotyping Protocol

Reaction Components

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

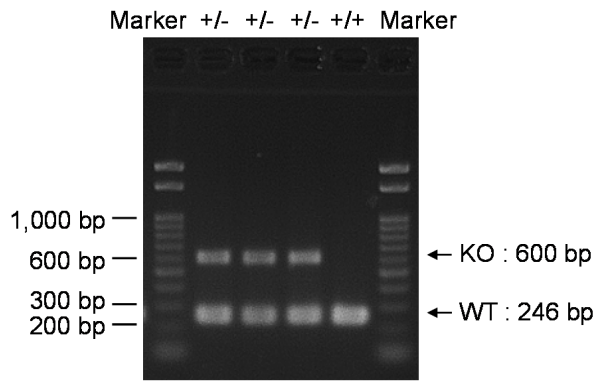
Reagent	Conc	Reaction 1	2	3	4	
H2O		1.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	63	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)



primer_set		product_size	product (allele type)	
primer 1	primer 2	246 bp	WT	+/+ (wild-type): 246 bp +/- (heterozygous): 246 bp and 600 bp
primer 2	primer 3	600 bp	KO	

Comment Standard PCR

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