PCR protocol

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RBRC 10267 **Strain name** B6;129-Mlc1<tm1kftnk>

Primer	primer_name	primer_seq	length		Reference
1	Mlc-80U	AGGGAATGGTGGTCTGAGTCTGTT	24		Glia, 65(1), 150-168 (2016).
2	*Mlc*159L	GAGAACACCCATGTCTTGTAGCTG	24		Glia, 65(1), 150-168 (2016).
3	TRE_R	CTCGACCCGGGTACCGAGCTC	21		RIKEN BRC

Reaction Components

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

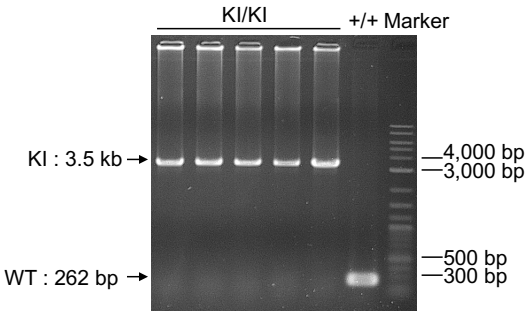
Reagent	Conc	Reaction 1	2	3	4	
H2O		1.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	30	*
4	68	300	* *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	262 bp	WT
primer 1	primer 3	3.5 kb	KI

KI/+ : 262 bp, 3.5 kb
+/+ : 262 bp

Comment Standard PCR

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