

RBRC 10041

Strain name B6.Cg-Mapt<tm1.1(MAPT)Tcs> App<tm1(NL)Tcs>

Primer	primer_name	primer_seq	length	Reference
1	Tau-KI-F	GTCAGATCACTAGACTCAGC	20	Depositor's primer
2	Tau-WT-R	CTGTGCTCCACTGTGACTGG	20	Depositor's primer
3	Tau-KI-R	CTGCTTGAGTTATCTTGCC	20	Depositor's primer
4		CTCCTTGTGGCTGGCGGTCACAC	23	RIKEN BRC
5	common_1	CTATCGTGGACCGAGAATGGTCATG	25	RIKEN BRC

Reaction Components

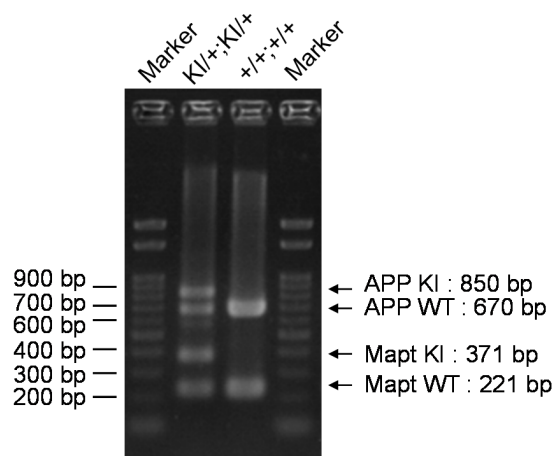
Enzyme	TOYOBO KOD FX (Code.No : KFX-101)
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Reaction Conditions

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		2.3			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/ μ l	0.5			
primer 2	10 pmol/ μ l	0.5			
primer 3	10 pmol/ μ l	0.5			
primer 4	10 pmol/ μ l	0.5			
primer 5	10 pmol/ μ l	0.5			
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	221 bp	WT (Mapt)
primer 1	primer 3	371 bp	KI (Mapt)
primer 4	primer 5	670 bp	WT (App)
primer 4	primer 5	850 bp	KI (App)

+/+;+/+ (wild-type): 221 bp and 670 bp
KI/+;KI/+ (heterozygous): 221 bp and 371 bp and 670 bp and 850 bp

Comment [Standard PCR](#)

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