PCR protocol

Sheet ID PS_06695
Release date : 8/19/2016
Print date : 9/15/2020

RBRC 05796 **Strain name** STOCK Tc(HSA21q-MAC1)

Primer	primer_name	primer_seq	length		Reference
1		TATGGTGTGAGGTAGAGGTTTGAC	24		RIKEN BRC
2		GAATGGGGCTCAAGGTGGAATC	22		RIKEN BRC
3	m11_6L	GTTCAACCTGAGCTCCACATCATGCTC	27		ACS Synth. Biol., (2012).
4	m11_5R	CTAAAGACCCTCATGCTCCTGTGTGGAA	28		ACS Synth. Biol., (2012).
5	HS4_Rv	GGATGAGAGATAATGGCCTTACG	23		RIKEN BRC

Reaction Components

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

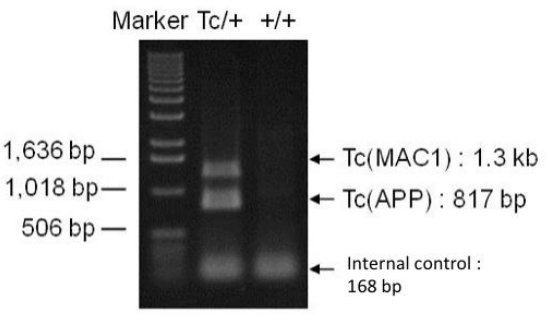
Reagent	Conc	Reaction 1	2	3	4	
H2O		0.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	0.5				
primer 2	10 pmol/μl	0.5				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
primer 5	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	57	30	*
4	68	180	* *Repeat for 30 cycles

Marker 1 kb DNA ladder (Invitrogen, Cat. 15615-024)

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



primer_set		product_size	product (allele type)
primer 1	primer 2	817 bp	Tc (APP)
primer 3	primer 4	168 bp	Internal control
primer 3	primer 5	ca 1.3 kb	Tc (MAC1)

Comment

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