PCR protocol

RBRC 01123 Strain name hAG 2-5

Primer	primer_name	primer_seq	length	
1		GGGCTCTTCACTGCTCCAGGC	21	
2		CCACCGTAGTCTCAGGAGTATG	22	
3		CTTCTCAGTGAGCGCTCCTCC	21	
4		GAACTCCTGGCCTCAAGCGATCC	23	

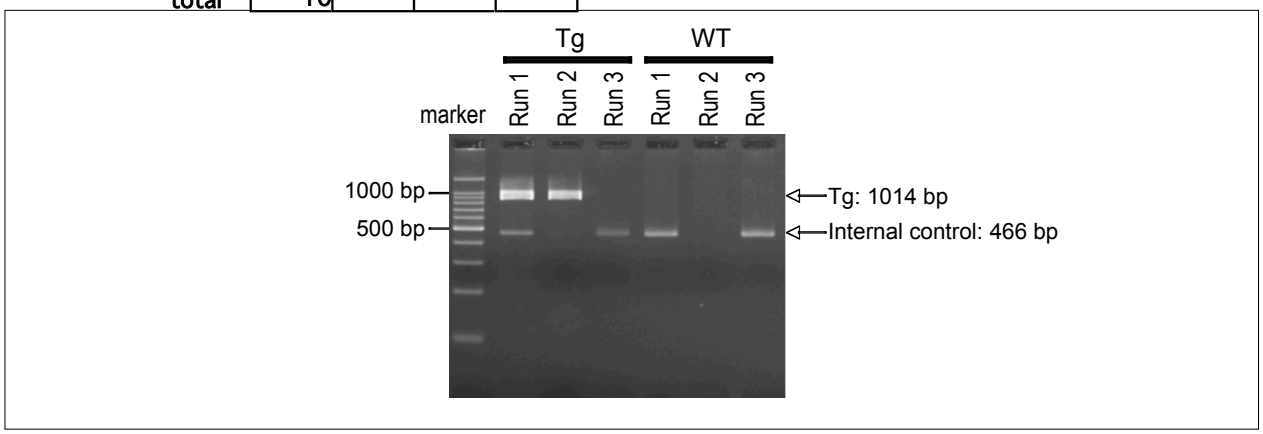
Reaction Components

Enzyme: QIAGEN Multiplex PCR Kit (Cat. No. 206143)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		0.5			
Master Mix	2 X	5.0			
primer 1	10 pmol/μl	1.0			
primer 2	10 pmol/μl	1.0			
primer 3	10 pmol/μl	1.0			
primer 4	10 pmol/μl	1.0			
DNA		0.5			
	total	10			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	95	900	
2	94	30*	
3	60	90*	
4	72	90*	*Repeat for 30 cycles
5	72	600	



Marker

100 bp DNA Ladder (TAKARA, Cat. 3407A)

Gel

4% Nusieve in 1 X TAE (100 V, 30 min)

PCR products

primer_set		product_size	product
primer 3	primer 4	1014 bp	Tg (hAGT5)
primer 1	primer 2	466 bp	internal control (mAGT5)

Comment