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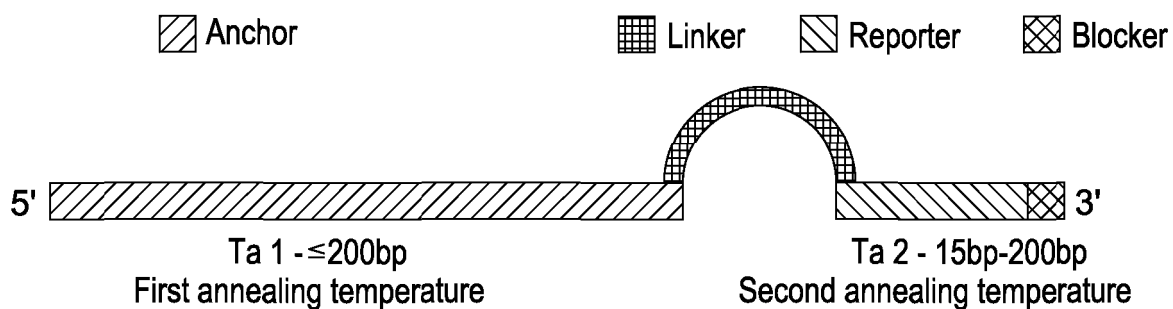


Fig.1

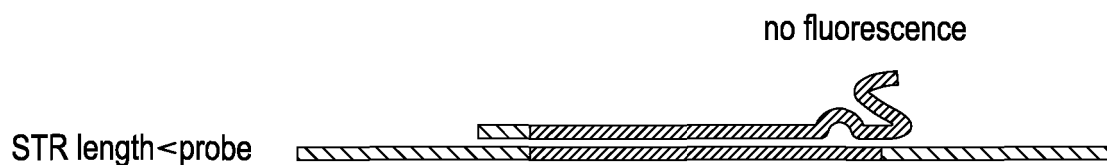


Fig.2

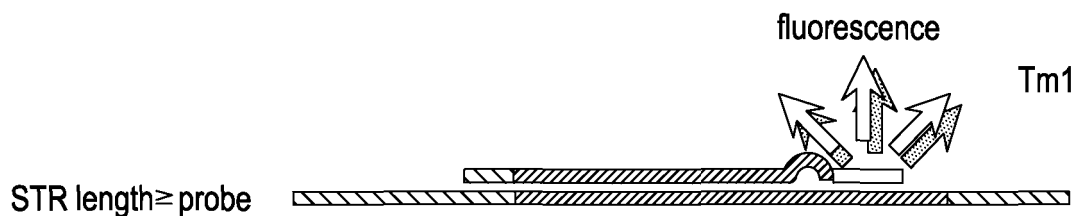


Fig.3

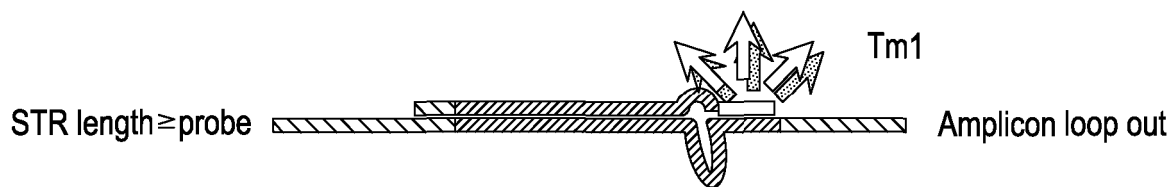


Fig.4

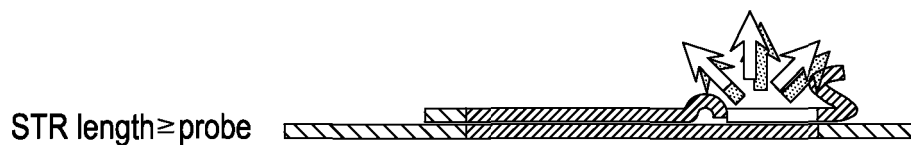


Fig.5

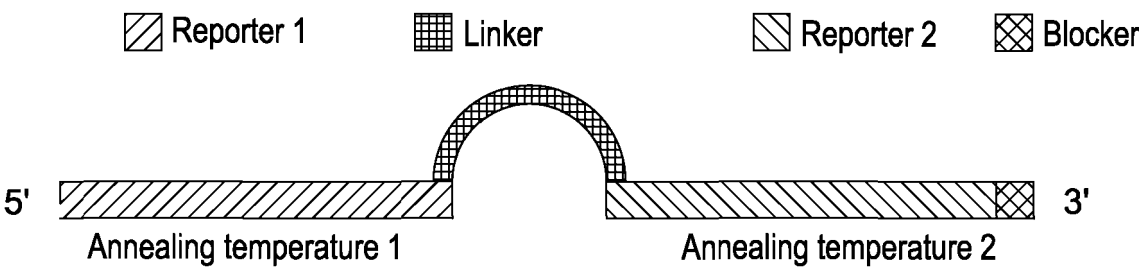


Fig.6

							5	3		3	1	
	Wt	511	512	513	514	515	516	522	526	527	531	533
SEQ ID No: 6		L	S	Q	F	M	D	S	H	K	S	L
SEQ ID No: 7		CTG	AGC	CAA	TTC	ATG	GAC	TCG	CAC	AAG	TCG	CTG
SEQ ID No: 8	Mut	CCG	ACC	CTA	TTC	ATT	GTC	CAG	GAC	CAG	TTG	CCG
		2P	3T	IL	1Dup	2I	1IV	1Q	3D	1Q	87L	3P
				AAA			TAC	TGG	CTC		TGG	
				1Q			2Y	1W	1L		2W	
				GAA					TAC		CAG	
				1E			1Del		10Y		1Q	
									CAA			
									3Q			
									AAC			
									2N			
									CCC			
									1P			
									CGC			
									1R			

Fig.7

SEQ ID No: 9

Sequence to detect

WT

511513515517519521523525527529531

GCCAGCTGAGCCAAATTCATGGACCAAGAAACACCGCTGTCGGGGTTGACCCACAAAGCGCCGACTGTCGGCGCTG

512514516518520522524526528530

SEQ ID No: 10

MUT 516

GCCAGCTGAGCCAAATTCATGGTCCAGAACAAACCGCTGTCGGGGTTGACCCACAAAGCGCCGACTGTCGGCGCTG

SEQ ID No: 11

MUT 526

GCCAGCTGAGCCAAATTCATGGACCAAGAAACCGCTGTCGGGGTTGACCGACAAAGCGCCGACTGTCGGCGCTG

SEQ ID No: 12

MUT 531

GCCAGCTGAGCCAAATTCATGGACCAAGAAACCGCTGTCGGGGTTGACCCACAAAGCGCCGACTGTTGGCGCTG

Probe sequence

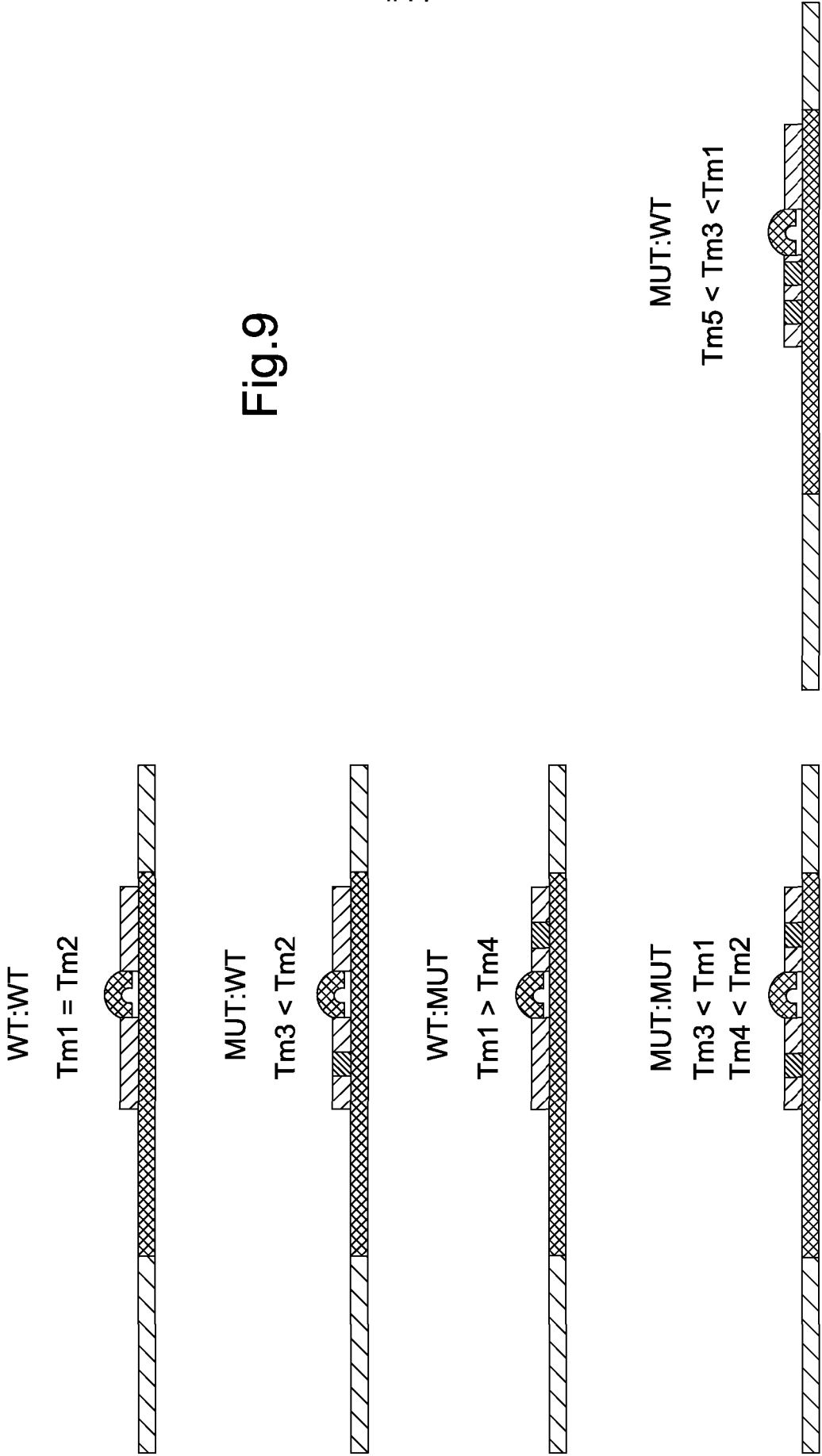
PROBE 5'CGACAGTCGGCGCTTGGGGTIIIIITCTGCCCATGAATGGCTCAGCTG(BLOCK)3'

(IIIIID) = 5x (five) polydeoxyinosine residues

Fig.8

<u>Probe region data</u>								
Region	Melting Salt adjusted	Length	GC%	Weight	RlnK	deltaG	deltaH	deltaS
rpoB-Z1	67.3	21	67	6494.3	33.404	32.6	190.1	491.7
rpoB-Z2	67.4	25	52	7660.0	33.404	33.8	201.1	523.3

Fig.9



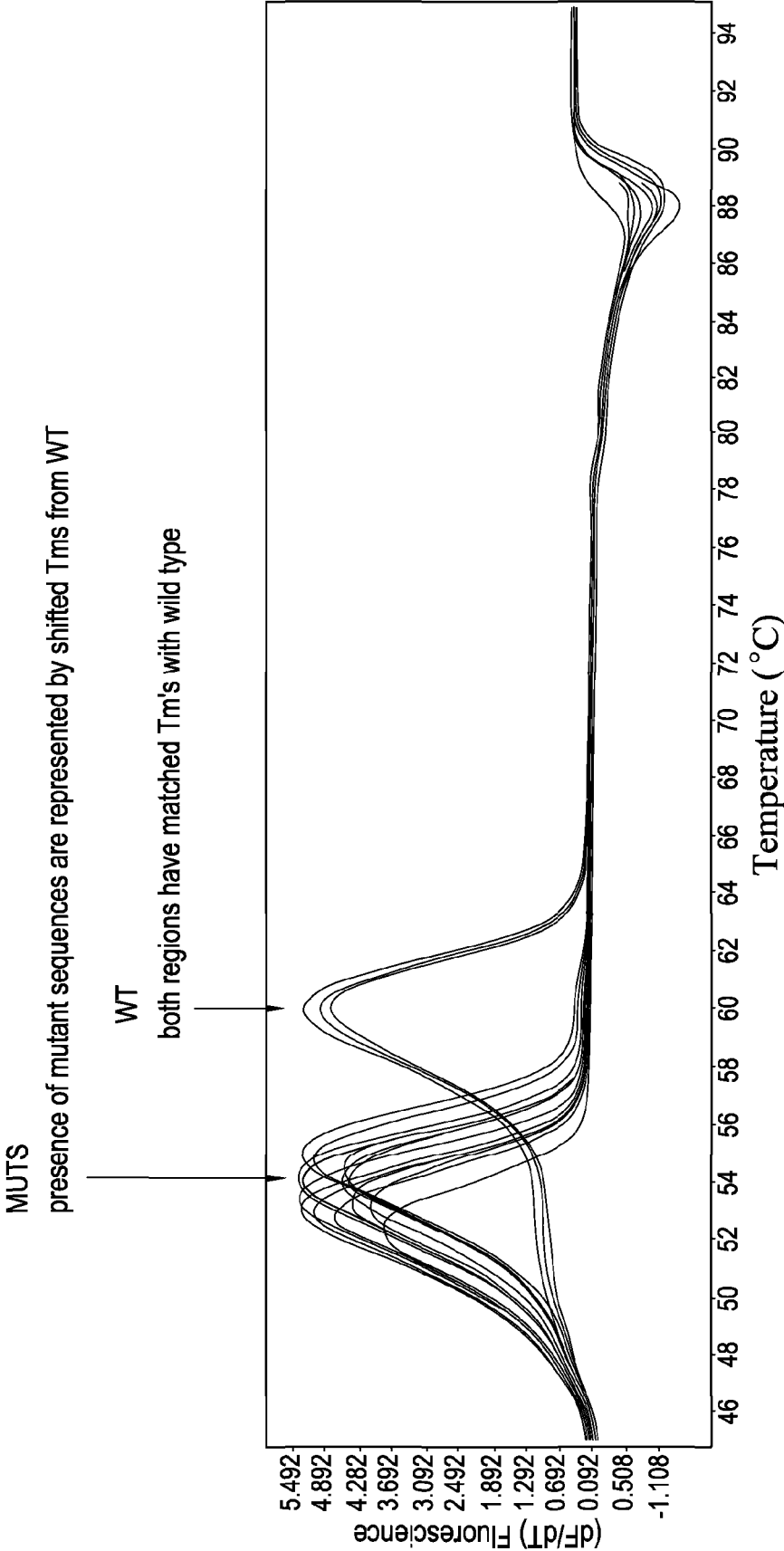


Fig.10

SEQ ID No: 14	Vaccinia virus	GAG TAT TTG TCA TTT TAT ATT TGT TGG CTG
SEQ ID No: 15	Monkeypox virus	GAG TTT TTG TAA TTT TAT ATT TGT TGG CTG
SEQ ID No: 16	Cowpox virus	GAG TAT TTA TCA TTT TAT ATC TGT TGG CTG
SEQ ID No: 17	Ectromelia virus	GAA CAT TTA TCA TTT TAT ATT TAT TGG CTG
SEQ ID No: 18	Camelpox virus	GAG CAT TTA TCA TTT TAT ATT TGT TGG CTG

Fig.11

VAC_PROBE2
5' MGAGFATTTGFCATTT*****TATATTFGTTGGCFGP 3' : SEQ ID NO: 1

M = TRIMETHOXYSTILBENE
P = 3' PHOSPHATE
F = Fluorescein dT
***** = 5x polyI

Fig.12

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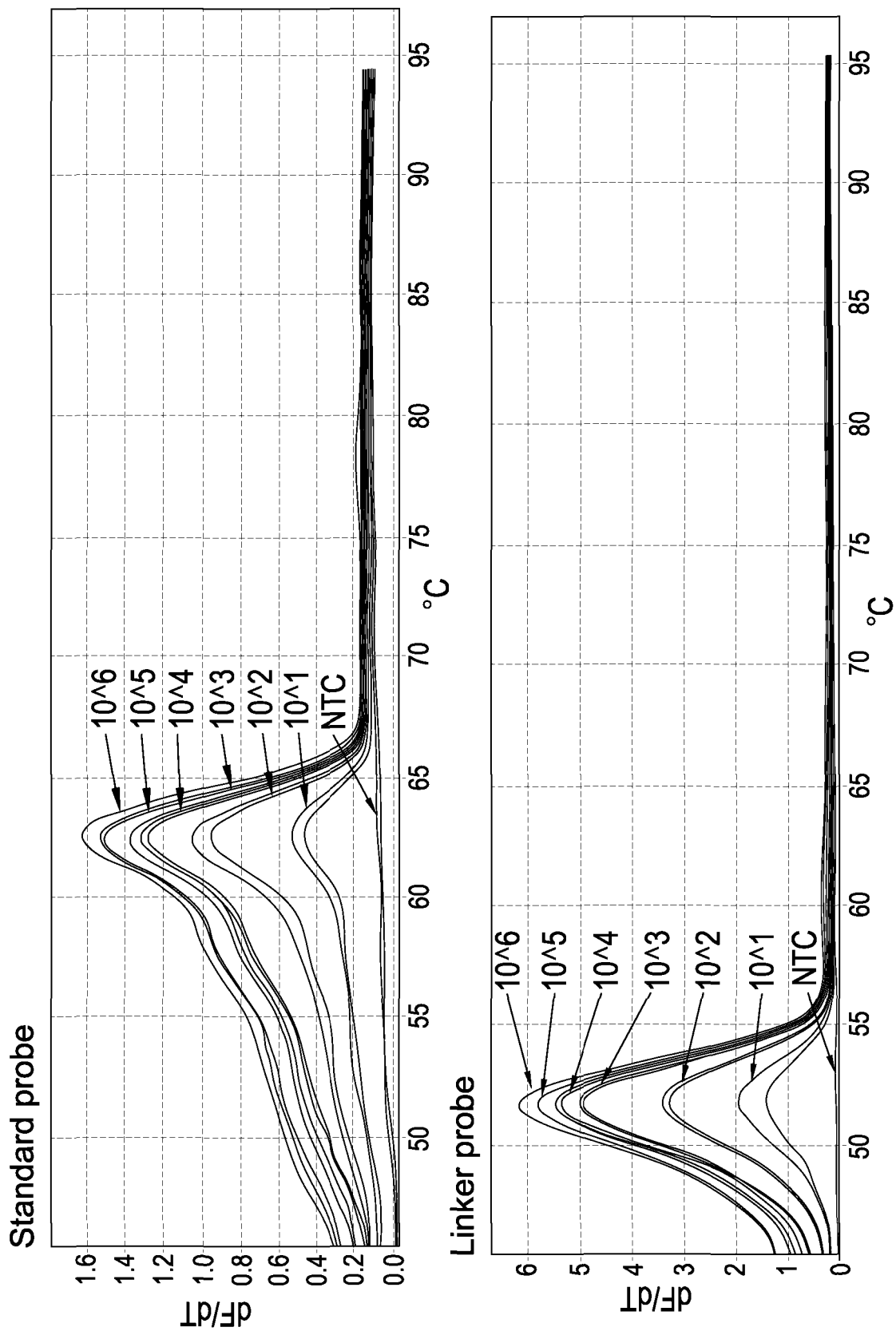


Fig.13

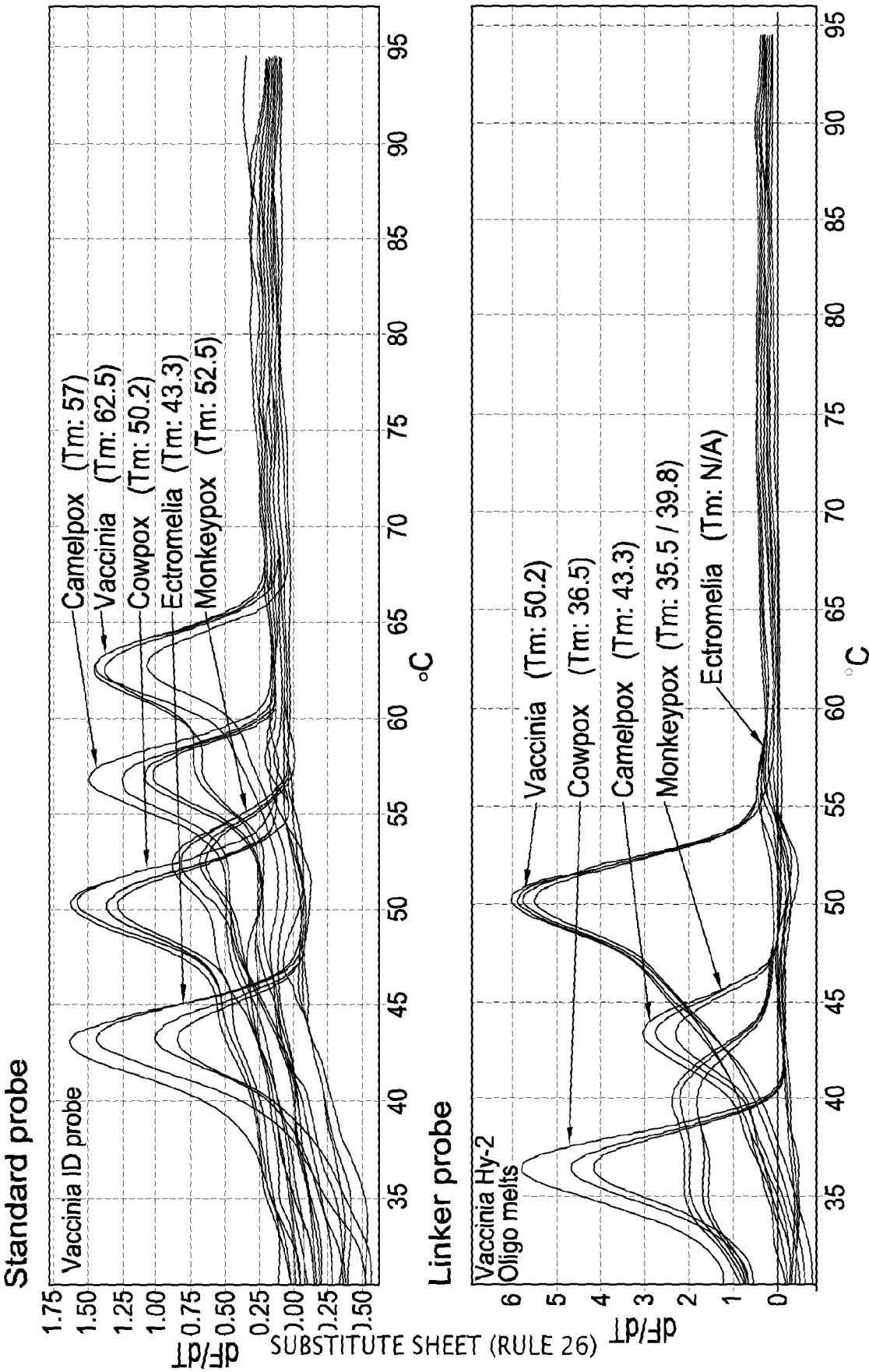


Fig.14

Amplicon Details				
Product length	Tm	Distance from 3' UTR	Single Exon	Structure

142	71	176	Yes	None
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Primer Details				
Sense Primer	Position	Tm	GC%	3'dG

SEQ ID NO:19	CAACTAGTGTGATTAATATGTGACACGTT	364	60.2	34.5	-4.6	-4.6
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Anti-sense Primer	Position	Tm	GC%	3'dG	Dimer
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SEQ ID NO:20	CCATCAAGATCCCTACCAACCC	505	60.2	54.5	-5.1	-2.2
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Further information

SEQ ID NO:1	3GAG1ATTTG1CATTT*****TATATT1GTTGGC1G2
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1=fluorescein dT

2=-phosphate

3=TRIMETHOXYSTILBENE

*=Inosine

Fig.15

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TH01-Probe1

M ACAGACTCCAFG GGAATGAAGAATGAGGGAAATAAGGG AGGA P: SEQ ID
NO: 4

TH01-Probe2

M ACAGACTCCAFG GGAATGAAGAATGA**** GGGAAATAAGGG AGGA P: SEQ
ID NO: 5

TH01-FWD

ATT CAA AGG GTA TCT GGG CTC TGG: SEQ ID NO: 2

TH01-REV

GTG GGC TGA AAA GCT CCC GAT TAT: SEQ ID NO: 3

Fig.16

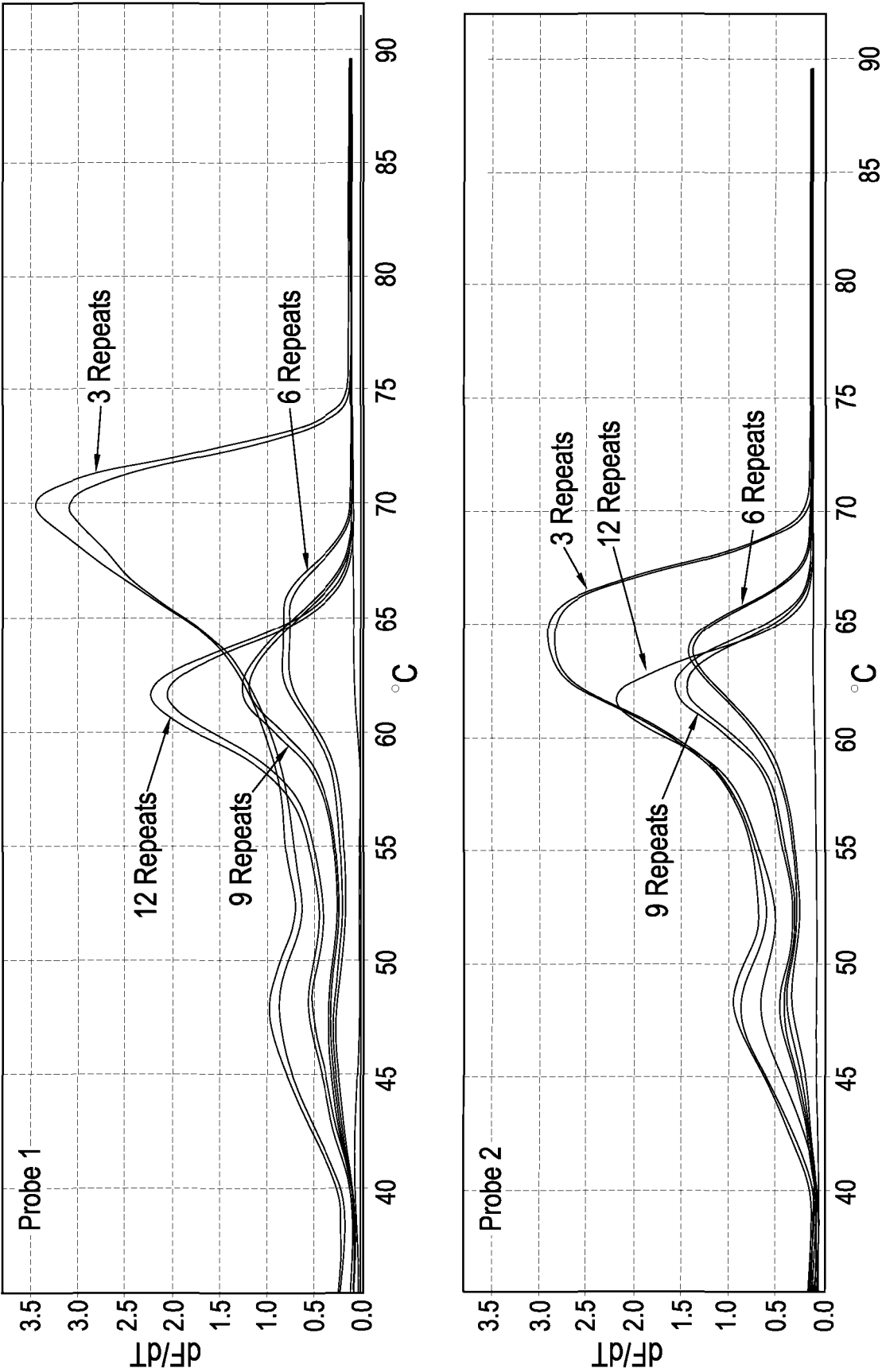


Fig.16 (continued)