

Figure 1

MOR	Sequence (5' to 3')
DPD*2A WT probe	CACTTAC <u>G</u> TTGTCTGTTTTTTTTTT-disulfide amide
DPD*2A MUT probe	CACTTAT <u>G</u> TTGTCTGTTTTTTTTTT-disulfide amide

Figure 2

Synthetic DNA samples	Sequence (5' to 3')
DPD*2A WT/MUT target	CATATTGGTG TCAAAGTGTC ACTGAACTAA AGGCTGACTT TCCAGACAAC <u>G/A</u> TAAGTGTGAT TTAACATCTA AAACAAGAGA ATTGGCATAA GTTGGTGAAT

Figure 3

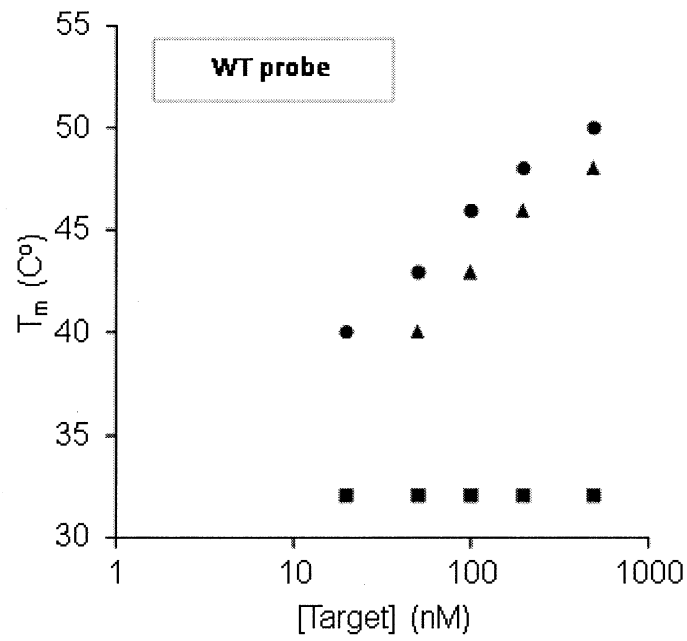
PCR primers	Sequence (5' to 3')	Amplicon size (nt)
DPD-Forward	AGTGAGAAAACGGCTGCATAT	118
DPD-Reverse	CATTCACCAACTTATGCCAATTCTCTT	

Figure 4

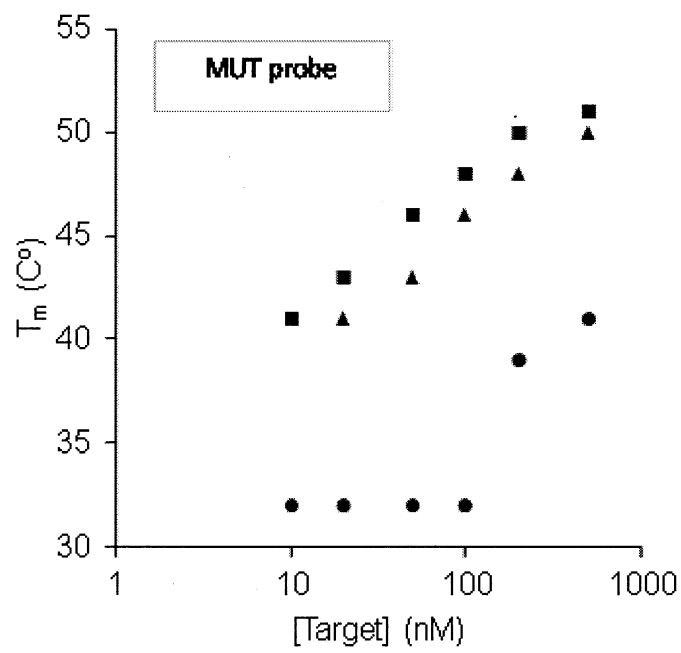
Initial denaturing	95°C	3 min
10-cycle touchdown	95°C	20 sec
	60°C, -0.5°C/cycle	20 sec
	72°C	25 sec
40-cycle amplification	95°C	20 sec
	55°C	20 sec
	72°C	25 sec
End	4°C	Hold

Figure 5

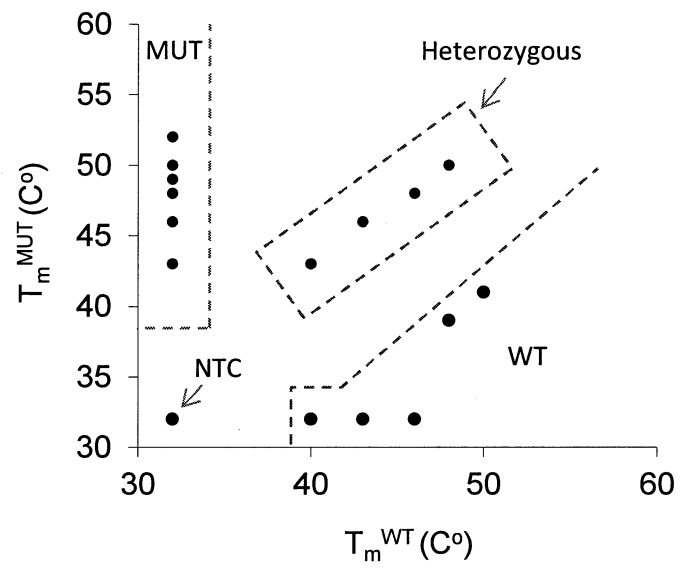
(a)



(b)



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Figure 6



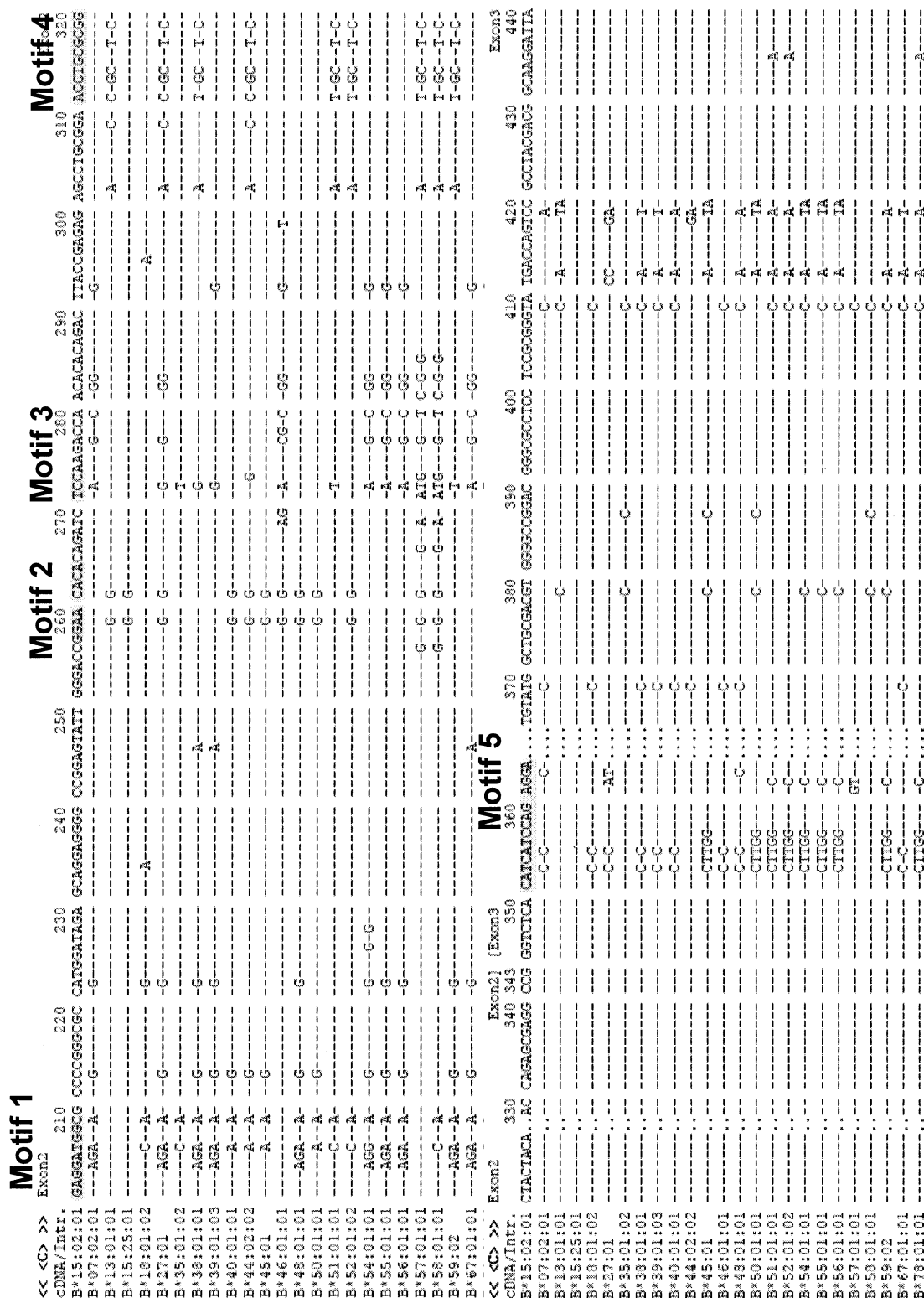


Figure 8

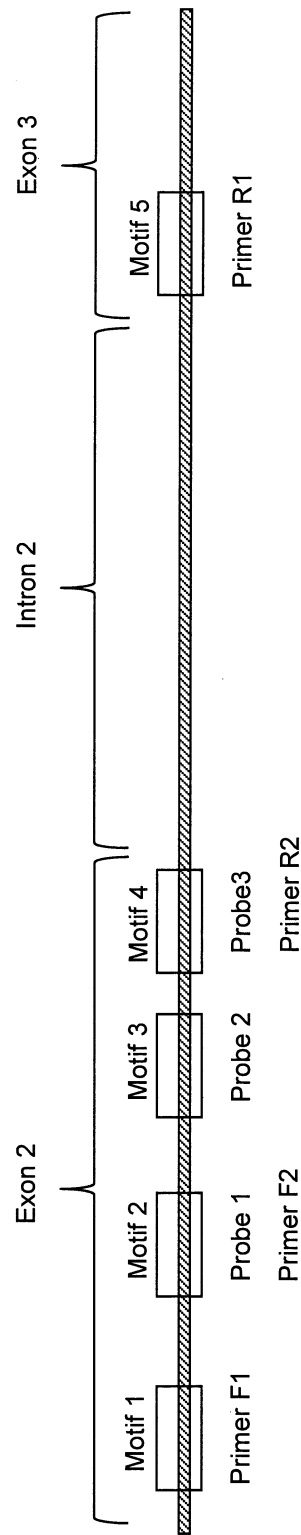


Figure 9

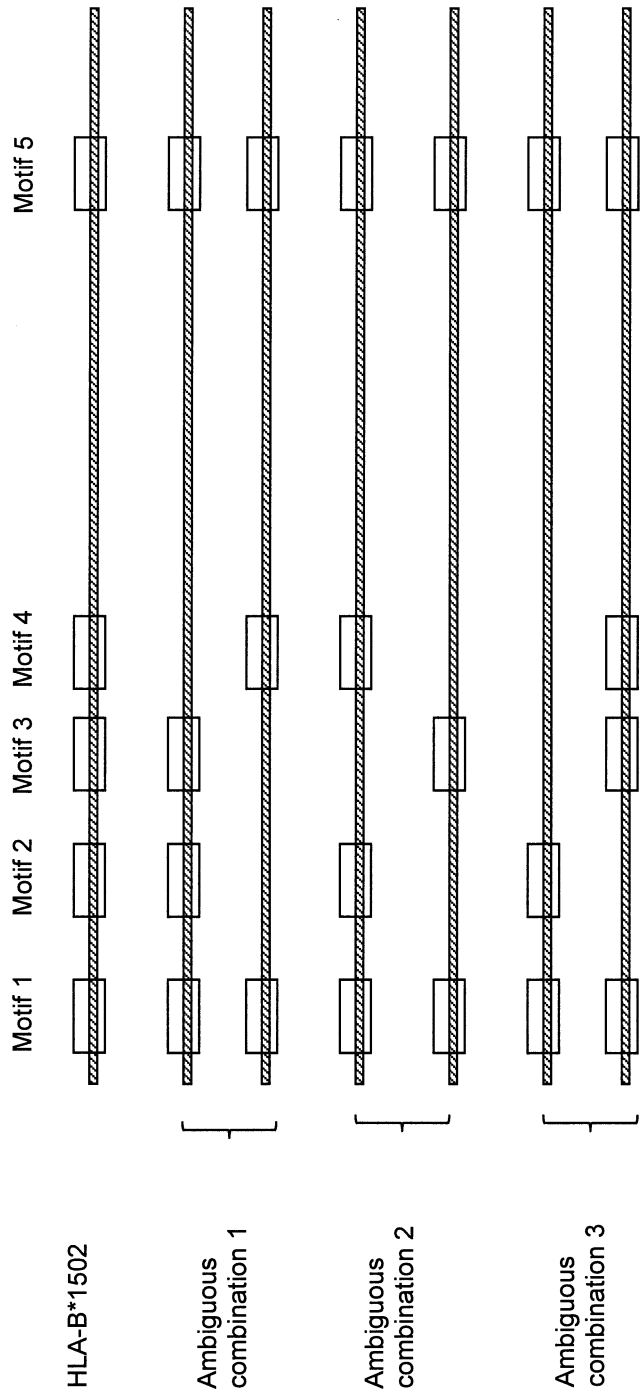


Figure 10

MOR	Sequence (5' to 3')
Probe 1	GTGTTCCGATCCCAATTTTTTTTTT-disulfide amide
Probe 2	TGGTCTTGGAGATCTTTTTTTTTTT-disulfide amide
Probe 3	AGGTTCCGCAGGCTTTTTTTTTTT-disulfide amide
GAPDH probe	CAAGCTTCCCGTTCTCAGCCTTTTT-disulfide amide

Figure 11

Synthetic DNA samples	Sequence (5' to 3')
Probe1 PM	AGG AGG GGC CGG AGT ATT GGG ACC GGA <u>ACA</u> CAC AGA TCT CCA AGA CCA ACA CAC A
Probe1 MM	AGG AGG GGC CGG AGT ATT GGG ACC GGG <u>AGA</u> CAC AGA TCT CCA AGA CCA ACA CAC A
Probe2 PM	GGC CGG AGT ATT GGG ACC GGA ACA CAC AGA TCT <u>CCA</u> AGA CCA ACA CAC
Probe2 MM1	GGC CGG AGT ATT GGG ACC GGA ACA CAC AGA TCT <u>GCA</u> AGA CCA ACA CAC
Probe2 MM2	GGC CGG AGT ATT GGG ACC GGA ACA CAC AGA TCT <u>TCA</u> AGA CCA ACA CAC
Probe2 MM3	GGC CGG AGT ATT GGG ACC GGA ACA CAC AGA TCT <u>ACA</u> AGA CCA ACA CAC
Probe3 PM	AGACTTACCG AGAGAGCCTG CGGAACCTGC <u>GCGGCTACTA</u>
Probe3 MM	AGACTTACCG AGAGAGCCTG CGGACCCTGC <u>TCCGCTACTA</u>

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Figure 12

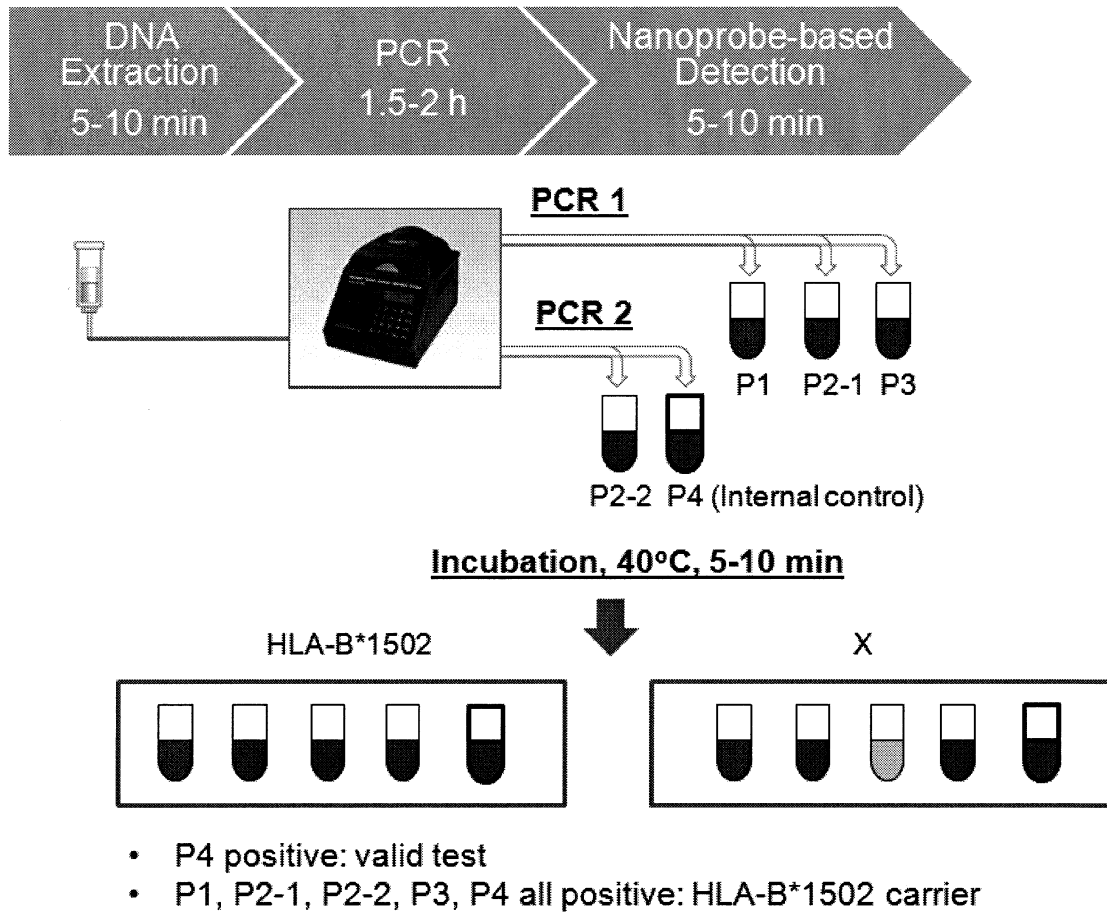


Figure 13

PCR primers	Sequence (5' to 3')	Amplicon size (nt)
PCR1-F -R	CGC GAGTCC GAG GAT GGC CG CAG CCA TAC ATC CTC TGG ATGA	431
PCR2-F -R	GGA GTA TTG GGA CCG GAAC GTT GTA GTA GCC GCG CAG GT	88
GAPDH-F -R	GGAAGGTGAAGGTCGGAGTC CTC CCTGGAAGATGGTGTATGGGATTTC	231

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Figure 14

Initial denaturing	95°C	2 min
45-cycle touchdown	95°C	30 sec
	67°C	30 sec
	72°C	30 sec
10-cycle amplification	95°C	20 sec
	57°C	20 sec
	72°C	30 sec
End	4°C	Hold

Figure 15

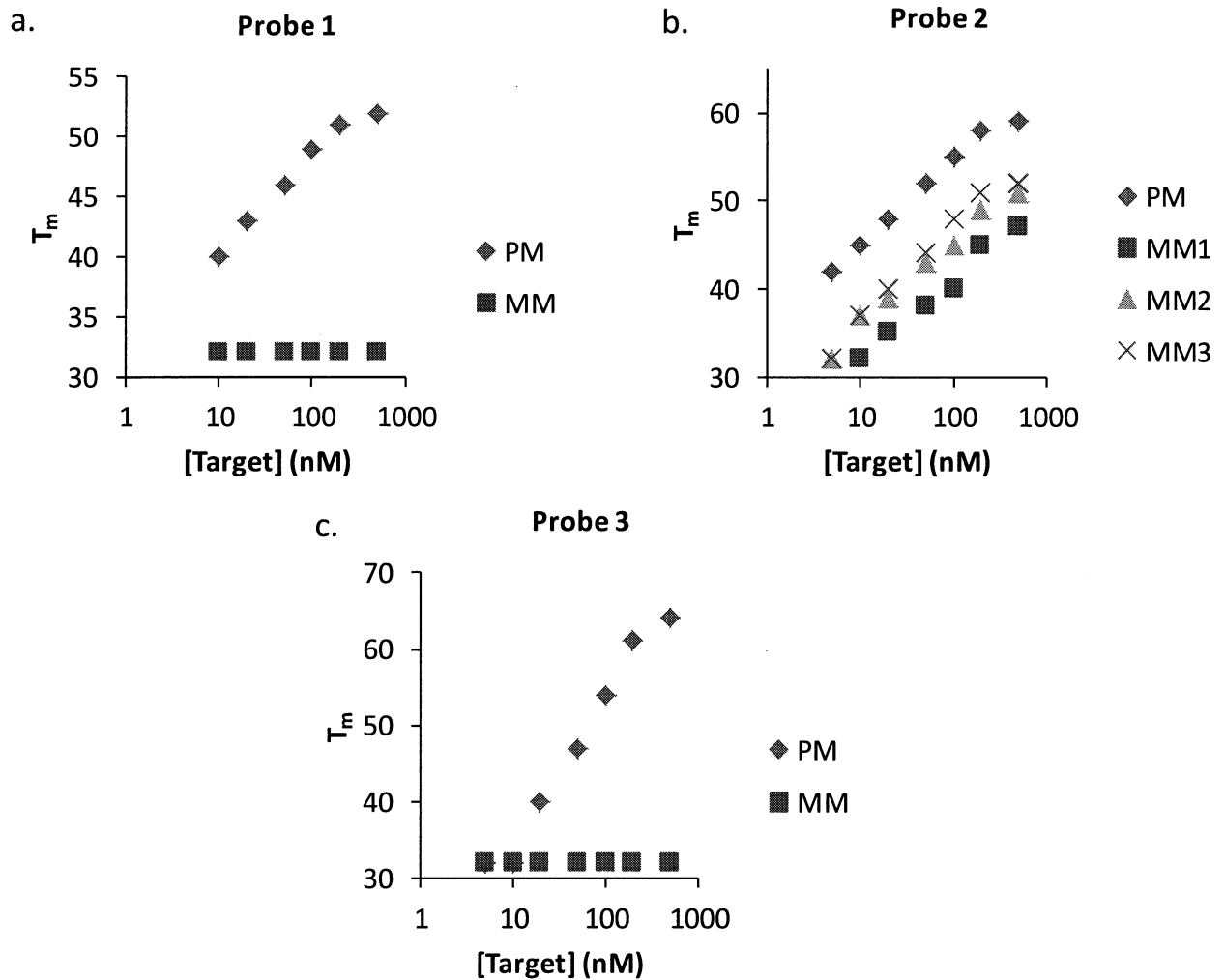
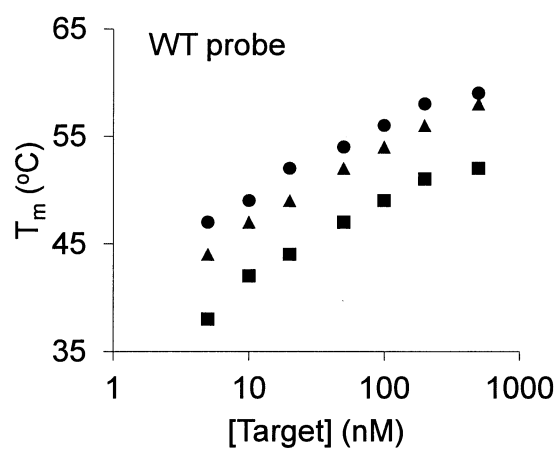


Figure 16

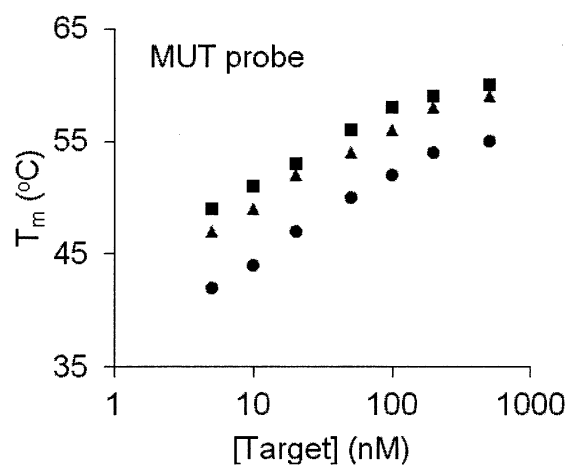
MOR	Sequence (5' to 3')
CYP2C19*2 WT probe	GTTATGGGTTCC <u>C</u> GGTTTTTTTTTT-disulfide amide
CYP2C19*2 MUT probe	GTTATGGGTTCC <u>T</u> GGTTTTTTTTTT-disulfide amide

Figure 17

(a)



(b)



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Figure 18

Synthetic DNA samples	Sequence (5' to 3')
CYP2C19*2WT/MUT target	AGATATGCAATAATTTTCCCACTATCATTGATTATTTCCC <u>G/A</u> GGAACCCATAACAAATTACTTAAAAACCTTGCTTTTATGG

Figure 19

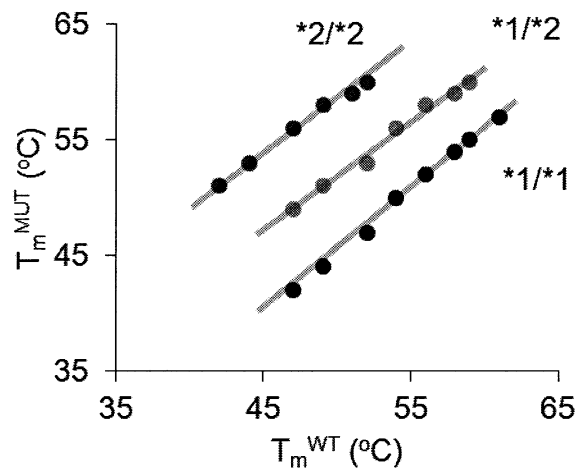


Figure 20

PCR primers	Sequence (5' to 3')	Amplicon size (nt)
CYP2C19*2-Forward	TGCAATAATTTTCCCACTATCATTG	93
CYP2C19*2-Reverse	CTCCAAAATATCACTTTCCATAAAAAGCA	

Figure 21

Initial denaturing	95°C	2 min
10-cycle touchdown	95°C	20 sec
	60°C, -0.5°C/cycle	20 sec
	72°C	20 sec
40-cycle amplification	95°C	15 sec
	55°C	15 sec
	72°C	20 sec
End	4°C	Hold