

<u>PRIMERS</u>	<u>SEQUENCE (5' to 3')</u>	<u>AMOUNT in PCR</u>
PCR reaction 1		
p15 Ex1 FP (B2)	CGCTGCCAACTACCGCACATCCTTTACCGACTAACTCCCCACTCTAC	2.5 pmol
p15 Ex1 RP (B2)	CGCTGCCAACTACCGCACATCTTTTTTTTTTTTAGGAGATTGGGTTTAG	2.5 pmol
p16 Ex1b FP (B2)	CGCTGCCAACTACCGCACATCGAAAAAACTCTTCCGCCAACAC	2.5 pmol
p16 Ex1b RP (B2)	CGCTGCCAACTACCGCACATCTGTTTGTATTATTTTGTGTTGTTAG	2.5 pmol
p21 S1 FP (B2)	CGCTGCCAACTACCGCACATCCCTCCTAAAAAATACCAACTCATTCTC	2.5 pmol
p21 S1 RP (B2)	CGCTGCCAACTACCGCACATCTGATTTTGGTAGTTGTTTATATTTTAGTTG	2.5 pmol
p27 Ex1 FP (B2)	CGCTGCCAACTACCGCACATCACCACCCTCTCCGCTTACCTAATC	3.75 pmol
p27 Ex1 RP (B2)	CGCTGCCAACTACCGCACATCATTGGGTTGAAGAGGTTTTTGTAG	3.75 pmol
SNRPNb FP (B2)	CGCTGCCAACTACCGCACATCGTTGGGATTTTTGTATTGTGGTAAATAAG	1.25 pmol
SNRPN RP (B2)	CGCTGCCAACTACCGCACATCCCAATACGAACGAACAAAATACCATC	1.25 pmol
BRCA1 FP (B2)	CGCTGCCAACTACCGCACATCGAGATTTTTATTAGGGTGGAAAGAGTG	2.5 pmol
BRCA1 RP (B2)	CGCTGCCAACTACCGCACATCCCGTCCAAAAAATCTCAACGAACTC	2.5 pmol
PCR reaction 2		
p19 Ex1b FP (B2)	CGCTGCCAACTACCGCACATCCCCAATCTACAATTAAAAAACAAAAATAAC	2.5 pmol
p19 Ex1 RP (B2)	CGCTGCCAACTACCGCACATCGGTTTTTTTTTATTTGGTTTTTTAGGAAG	2.5 pmol
TIMP3 FPa (B2)	CGCTGCCAACTACCGCACATCCCGCTCTACCCCGCTACCTAA	5 pmol
TIMP3 RPa (B2)	CGCTGCCAACTACCGCACATCGTTGGTTTTGGTTTGGGTTAGAGATA	5 pmol
APC FP (B2)	CGCTGCCAACTACCGCACATCACGAACTACACCAATACAACCACATATC	2.5 pmol
APC RP (B2)	CGCTGCCAACTACCGCACATCTATTGTTTTTTGTGTTGTAAAAATTATAGTAATT	2.5 pmol
RASSF1 FPa (B2)	CGCTGCCAACTACCGCACATCCGACGACTACGCTACCCCTTAACCTAC	3.75 pmol
RASSF1 RP (B2)	CGCTGCCAACTACCGCACATCTTTTCGTGTTTTAGTTTGGATTTTG	3.75 pmol
ECAD FPc (B2)	CGCTGCCAACTACCGCACATCTCACCTACCGACCACAACCAATC	3.75 pmol
ECAD RPc (B2)	CGCTGCCAACTACCGCACATCTTATTGTTTTTGTTCGTTTCGATTTG	3.75 pmol
PCR reaction 3		
MGMT FP (B2)	CGCTGCCAACTACCGCACATCCCGACCCTAATCCTCCGACAAC	2.5 pmol
MGMT RP (B2)	CGCTGCCAACTACCGCACATCTTTGATTAGGGGAGTGGTTTTAG	2.5 pmol
p53b FP (B2)	CGCTGCCAACTACCGCACATCTTTGGTTTGTAGAATTTTTTATTTTAAATGTTAG	2.5 pmol
p53 RP (B2)	CGCTGCCAACTACCGCACATCTCAAATTCATCAAAAACCTACCCAATC	2.5 pmol
DAPK FPa (B2)	CGCTGCCAACTACCGCACATCGCGCCCTAACTAAAAAACAAAAAC	2.5 pmol
DAPK RP (B2)	CGCTGCCAACTACCGCACATCCGTTAGTTCGTTTGTAGGGTTTTTATTG	2.5 pmol
GSTP1 FP (B2)	CGCTGCCAACTACCGCACATCCGAATTAACCCCATACTAAAACTCTAAAC	5 pmol
GSTP1 RP (B2)	CGCTGCCAACTACCGCACATCTGTTTTGTGAAGTGGGTGTGTAAG	5 pmol
RARβ FP (B2)	CGCTGCCAACTACCGCACATCTCCCAAATTCCTTCCAAATAAATAC	2.5 pmol
RARβ RP (B2)	CGCTGCCAACTACCGCACATCTTGGTTTTTTTTTTGTTTATTTTAAAGT	2.5 pmol
Universal PCR primer		
UniB2	CGCTGCCAACTACCGCACATC	

PRIMERS**SEQUENCE (5' to 3')****LDR Reaction 1**

SNRPN 484A	Cy5 - KACAACTTCKCACACATCCCC <u>A</u>
SNRPN 558A	Cy5 - ACTAACCKCTCCTCAAACAAATAC <u>A</u>
SNRPN 646A	Cy5 - TAAAACTTAAATATCTAATAAATAAAAAATAACC <u>A</u>
SNRPN 484Com (cZip 4)	pCCTAAACATAACKCKCAACCTACCTCTAATGGCCGTGCTGGGGACAAGTCAA - Bk
SNRPN 558Com (cZip 5)	pTCAAACATCTCCKACKACCKCTCCATTGCAACGGGCTGGTCAACGTCAA - Bk
SNRPN 646Com (cZip 6)	pCTCCCCAACTATCTCTTAAAAAAACCACCKACATCATGGGGGAAAGCTTCGTCAA - Bk
p15Ex1 299A	Cy5 - TCCKCKACKCTCCKCACCCCTAC <u>A</u>
p15Ex1 366A	Cy5 - CCAAAAACAATCCAAACKC <u>A</u>
p15Ex1 430A	Cy5 - ACCKCTCKACCACTACAC <u>A</u>
p15Ex1 299Com (cZip 9)	pACCAAAACKACTTTAAACTCKACTACKTCCKCCATCGTCCCTTTTCGATGGGATCAA - Bk
p15Ex1 366Com (cZip 10)	pCCCKCTAATTCTTAAACKCCAAAACAAGGCACGTCCCAGACGCATCAAG - Bk
p15Ex1 430Com (cZip 11)	pAAACCCCAAACCKCAAAAAAAGCACGGGAGCTGACGACGTGTCAAG - Bk
p21 S1 2968A	Cy5 - CACTTCKTAAAAAATATATCCAAC <u>A</u>
p21 S1 3037A	Cy5 - TACAACACKCKAAATTCCKAAACC <u>A</u>
p21 S1b 3142A	Cy5 - AACKACKCKATAAACCKAACKC <u>A</u>
p21 S1c 2968Com (cZip 24)	pCACCAACKCAAACKAAAAACTAAAAAAACGCACGCAGTCCTCCTCCGTATCA - Bk
p21 S1 3037Com (cZip 25)	pACTAACCTACTAAAACCTCKACCAAACCTCACTAACTCKGGCTCGCAGGCTGGCTCATCCTAA - Bk
p21 S1b 3142Com (cZip 26)	pAATCCCKCCTCCTTAAACKAACCCCKCGCATGAGGGGAAACGACGAGATTG - Bk

LDR Reaction 2

p53 498A	Cy5 - CTACKAACTCCTAACACAAAACCTAAACAATC <u>A</u>
p53 577A	Cy5 - CTCTAAACTTTTAAAAAACTCAAACTTTTAAC <u>A</u>
p53 661A	Cy5 - CKTAAAAACACKCTCCCAACCC <u>A</u>
p53 498Com (cZip12)	pCCATAACAAATAAAAACAAATAATCCKCCACCAGACGCACCGCAACAGGCTGTCAAG - Bk
p53 577Com (cZip13)	pCCAATCTTAAACACATAAAAAAAAAAACCCAATCATCGCTGCAAGTACCGCACTCAAG - Bk
p53 661Com (cZip 14)	pAACKCAAATATCCCKKAAACCCAACGGCTGGGACGTGCAGACCGTTCAA - Bk
p16 Ex1 351A	Cy5 - AAATAAAACKAACCKCKTAC <u>A</u>
p16 Ex1 438A	Cy5 - CCKTCKACKAAAAACAACATAAAACCTTC <u>A</u>
p16 Ex1d 520A	Cy5 - CKCTACTAAAAACKAAAAACKCTACCCAAC <u>A</u>
p16 Ex1c 351Com (cZip 15)	pCTCKACKACTACKAAAAAAAAAAAAACAAAGCTGGCTGGCAGCACCAGAATCA - Bk
p16 Ex1 438Com (cZip 16)	pACTAACTAACTAACCACKACCKCKACCKAAATCGGCTCCGTGAGAAAGCGACAATCAG - Bk
p16 Ex1c 520Com (cZip 17)	pCACCKAATAATTACKATCKAAAACCKATCCACGAGGGATACCCGCAAACGATCA - Bk
BRCA1 839A	Cy5 - CTACCCTCTAACCTCTACTCTTCCAATTAC <u>A</u>
BRCA1 963A	Cy5 - AAAAAACAAAAAAACCAAACKTCTCTC <u>A</u>
BRCA1 1068A	Cy5 - ATCTATAATTCCCKCKCTTTTCC <u>A</u>
BRCA1 839Com (cZip 18)	pACTTATTACATCACAATAATTACTATACKAAAATCAAAATCKCGGGAGGCTGCTGTCCTTTTCGATCA - Bk
BRCA1 963Com (cZip 19)	pAAACTCTAAATTAACCACCCAATCTACCCCKKAAACAGCGTGTTCGTTGCTTGATCA - Bk
BRCA1 1068Com (cZip 20)	pTTACCACKAAAACCAAAAACTACCKCATGGCGATGGTCCACTCGCAATCA - Bk

<u>LDR PRIMERS</u>	<u>SEQUENCE (5' to 3')</u>
APC	
APC 559C	Cy3 - TTTCGGTATTTTGTGTTAATTTTTTTGTTTTGC
APC 719C	Cy3 - TGTGTTTTATTGCGGAGTGC GG GTC
APC 783C	Cy3 - GATGCGGATTAGGGCGTTTTTTTATTTTC
APC 559Mcom (cZip 27)	pGGATTTTTTTTCGATTTTTTTATTATGCGTGTTAATTGTGCACCGTGAACGACAGTTGCGATT - BK
APC 719Mcom (cZip 28)	pGGGAAGTGAGAGAGAAGTAGTTGTGTAATTTGCGCAGGTCGCTGCGTGTCTGATT - BK
APC 783Mcom (cZip 29)	pGTTGGGAGTTTGTTGATTGTTGGGCGCAAAGCAGACACAGGGTCGATT - BK
DAPK	
DAPK 300C	Cy3 - GTTTTTTCGTTTAAAAGGCGGTAAGGAGTC
DAPK 380C	Cy3 - TTTTGTTTTTTTTCGCGGAGGGGATTC
DAPK 500C	Cy3 - TTTTCGGCGTTGGCGTTTATGGTC
DAPK 300Mcom (cZip 33)	pGAGAGGTTGTTTCGGAGTGTGAGGAGGATACGATTTCTGACTCAAGCGGCTCTTT - BK
DAPK 380Mcom (cZip 34)	pGGTAATTCGTAGCGGTAGGGTTTGGGGTCGCAATGGTAGGTGAGCAAGCAGA - BK
DAPK 500Mcom (cZip 35)	pGGTTTTTCGATAGCGTTTCGGAGGGATCGTCCCCGTTACCTAGGCGATCAGA - BK
ECAD	
ECAD 190C	Cy3 - TTAGGAGTTCGAGGTTGTAGTGAGTTGTGATC
ECAD 359C	Cy3 - GTTGGGATTTCGAATTTAGTGGAATTAGAATC
ECAD 429C	Cy3 - GAGGGTTATCGCGTTTATGCGAGGTC
ECAD 190Mcom (cZip 36)	pGTATTATTGTATTTTAGTTTGGGTGAAAGAGTGAGTTTATTTTAAATGGGTCCACGTACCGCTGCAGA - BK
ECAD 359Mcom (cZip 37)	pGTGTAGGTTTTATAATTTATTTAGATTTTAGTAATTTAGGTTAGAGGGTCCGTGGGAGATTAGGTGGCTCAGA - BK
ECAD 429Mcom (cZip 38)	pGGGTGGGCGGGTCGTTAGTTTCGGGGAATGGAGGTGGGAACGAGACA - BK
GSTP1	
GSTP 925C	Cy3 - TTTAGGGAATTTTTTTTCGCGATGTTTC
GSTP 1028C	Cy3 - GATTTGGGAAAGAGGGAAAGGTTTTTTTC
GSTP 1144C	Cy3 - GGAGTTCGCGGGATTTTTTAGAAGAGC
GSTP 925Mcom (cZip 39)	pGGCGCGTTAGTTCGTTGCGTATATTTTCGCGTGGCTGACTCGCTGCGATGACA - BK
GSTP 1028Mcom (cZip 40)	pGGTTAGTTGTGTGGTGATTTTGGTTGCGCACCATCAGGTTAGGGACA - BK
GSTP 1144Mcom (cZip 41)	pGGTCGGCGTCGTGATTTAGTATTGGGGCACCGATATGGAGACCGCAGACA - BK
MGMT	
MGMT 180C	Cy3 - CGGGTTTAGCGTAGTCGTTTCGAGTAGGATC
MGMT 237C	Cy3 - GATTTTCGCGCGTTTTTAGGATTATTC
MGMT 346C	Cy3 - GTTTTAGGCGGAAGTTGGAAGGC
MGMT 180Mcom (cZip 42)	pGGGATTTTTATTAAGCGGGCGTCGTTTCATCGACAAGGTAACGCGTGGACA - BK
MGMT 237Mcom (cZip 43)	pGGGTACGTGGTAGGTCGTTTGTACGTTTCGTGAGCGCAAGGTCAGAGCACGACA - BK
MGMT 346Mcom (cZip 44)	pGTTGTTTGGTTTGTATTGGTTGAAGGAAGCCGCAGCACGATTCCGTGACA - BK
RARβ	
RARβ 127C	Cy3 - GAAAGAAAACGTCGGTTTGTGCGTTC
RARβ 111C	Cy3 - TTGTATTGTTTTTAAGGAGAGAAATAGGAAAGAAAAC
RARβ 411C	Cy3 - ATGCGAGTTGTTTGAGGATTGGGATGTC
RARβ 127Mcom (cZip 45)	pGTTGTTTGTTTTTTTGGTTGTTTGTGTTTGTAGGGTGAGAAGCGTCCAAGCCAGAACGA - BK
RARβ 111Com (cZip 46)	pGTCGGTTTGTGCGTTCGTTGTTTGTGTTTTCATCCAAGGTCCGACACGCAACGA - BK
RARβ 411Mcom (cZip 47)	pGAGAAATGTGAGTGATTTGAGTAGGGTTTCGACGATTTCGCATCAACGCAAG - BK
RASSF1	
RASSF1 423C	Cy3 - GTTCGCGTTTGTGTTAGCGTTTAAAGTTAGC
RASSF1 518C	Cy3 - GGCGCGTTGGGAAGGGTCGTATTC
RASSF1 593C	Cy3 - CGTGTAATTTTATACGGTAGTTGGTTTTTGGTC
RASSF1 423Mcom (cZip 48)	pGAAGTACGGGTTTAATCGGGTTATGTCGGGAACGGGAAGGTTGAGCGTGACAG - BK
RASSF1 518Mcom (cZip 49)	pGGTTGGAGCGTGTTAACGCGTTGCGCACTGCACACGAAACGGCACACAG - BK
RASSF1 593Mcom (cZip 50)	pGTGGTTATCGTTTTTAGTTTCGCGGGGTTTACCGACATCCTGGGATTGCATGG - BK
TIMP3	
TIMP3 288C	Cy3 - GGTTAGGGCGTAGACGAGAAGGGGTAC
TIMP3 363C	Cy3 - GCGCGTTTTAGTTTATTTATTCGCGTGTTTAC
TIMP3 456C	Cy3 - TTCGGTTTCGTTTTTTTTTTGGAGGGTC
TIMP3 288Mcom (cZip 51)	pGAGGGTTTTGTTTTGAGGATTTAGTTGGAATCCGCATTGCCAGAGCTGATGG - BK
TIMP3 363Mcom (cZip 52)	pGGTGGTATTATTTTTTATAAGGATTTGAATGATTTGCGATGGCTTCCCTACCCAGATTTCG - BK
TIMP3 456Mcom (cZip 53)	pGATGAGGTAATGTGGTTTTGTTATTGGTTTGACGCATTCGATGGACAGGACATTTCG - BK

SNRPN

SNRPN 484C

SNRPN 558C

SNRPN 646C

SNRPN 484Mcom (cZip 4)

SNRPN 558Mcom (cZip 5)

SNRPN 646Mcom (cZip 6)

Cy3 - AGGTAGGTTGGPGPGTATGTTTAGG C

Cy3 - GAGPGGTPGTPGGAGATGTTTGA C

Cy3 - GTGGTTTTTTTTTAAGAGATAGTTTGGGGAG C

pGGGGATGTGTGPGAAGTTTGTGTTGATGGCCGTGCTGGGGACAAGTCAA-Bk

pGTATTTGTTTTGAGGAGPGGTTAGTGAPGPGTTGCAACGGGCTGGTCAACGTCAA-Bk

pGGTTATTTTTATTATTAGATATTTTAAGTTTTTAGGATTTGGAGTATTGCATCATGGGGAAAGCTTCGTCAA-Bk

p15 Ex1

p15 Ex1 299C

p15 Ex1 366C

p15 Ex1 430C

p15 Ex1 299Mcom (cZip 9)

p15 Ex1 366Mcom (cZip 10)

p15 Ex1 430Mcom (cZip 11)

Cy3 - GGAPGTAGTPGAGTTTAAAGTPGTTTTGGT C

Cy3 - TTTTTGGPGTTTAAGAATTAGPGGG C

Cy3 - GTPGTTTTTTTGPGGTTTGGGGTTT C

pGTAGGGTGPGGAPGPGTGPBPGGCATCGTCCCTTTCGATGGGATCAA-Bk

pGPGTTTGGATTGTTTTTGGGAAAAAGPGCAAGGCACGTCCCAGACGCATCAA-Bk

pGTGTAGTGGTPGAGPGGTPGGTPGGCACGGGAGCTGACGACGTGTCAA-Bk

p16 Ex1

p16 Ex1 351C

p16 Ex1 438C

p16 Ex1 520C

p16 Ex1 351Mcom (cZip 15)

p16 Ex1 438Mcom (cZip 16)

p16 Ex1 520Mcom (cZip 17)

Cy3 - TTGTTTTTTTTTTTTTTPGTAGTPGTPGAG C

Cy3 - GGTPGPGGTPGTGGTTAGTTAGTTAGT C

Cy3 - ATPGGTTTTTPGATPGTAATTATTPGGTG C

pGTAPGPGGTTTPTGTTTTATTTTTTGGTGATTAGCTGGCTGGCACGCACCAGAATCA-Bk

pGAAGGTTTTATGTTGTTTTTTPGTGTPGGTTGGCTCCGTCAGAAAGCGACAATCA-Bk

pGTTGGGTAGPGTTPGTTTTTTAGTAGPGTACGAGGGATACCCGCAAACGATCA-Bk

p19 Ex1

p19 Ex1 606C

p19 Ex1 673C

p19 Ex1 761C

p19 Ex1 606Mcom (cZip 21)

p19 Ex1 673Mcom (cZip 22)

p19 Ex1 761Mcom (cZip 23)

Cy3 - TTAGGGTPGAGTTPGGTAGTPGTTG C

Cy3 - PGGGTPGTAPGPGPGTPGAATT C

Cy3 - GTAPGAGGGTTATAGPGGPGGG C

pGTPGTTTTTTGGTATTAGAGGTGAGTAGPGTATTTTTGTCCGTCCATGGCAAGCGTGATCA-Bk

pGGAGGGTTATTAAGAATTTGPGTATTATGTTTTTTPGTGGCTGCACCCGTTGAGGCACATCA-Bk

pGTTTTTGGPGTGTGTTATTTTTTTPGTGAGTPTCAACATCGGCTAACGGTCCATCA-Bk

p21 S1

p21 S1 2968C

p21 S1 3036C

p21 S1 3142C

p21 S1 2968Mcom (cZip 24)

p21 S1 3036Mcom (cZip 25)

p21 S1 3142Mcom (cZip 26)

Cy3 - TTTTTTAGTTTTTTPGTTTGP GTTGGTG C

Cy3 - TTAGTTGAGTTTGGTPGAGTTT TAGTAGGTTAGT C

Cy3 - GGTTPGTTTTAAGGAGGPGGGATT C

pGTTGGATATATTTTTTTTAPGAAGTGAGTTATAAATTTGGTTTCGCACGCAGTCCCTCCGTATCA-Bk

pGGTTTPGGAATTTPGCGTGTTGTAGGGGCTCGCAGGCTGGCTCATCCTAA-Bk

pGPGTTPGGTTTATPGPGTPGTTPGGCGCATGAGGGGAAACGACGAGATT-Bk

p27 S1

p27 Ex1 575C

p27 Ex1 644C

p27 Ex1 770C

p27 Ex1 575Mcom (cZip 30)

p27 Ex1 644Mcom (cZip 31)

p27 Ex1 770Mcom (cZip 32)

Cy3 - GTTAAAAGATATAGATTTTPGAPGAGTTAPGGTT C

Cy3 - AAAATPGAATAAAATAAAGPGTTTTTAPGTAGTT C

Cy3 - GGGTGTTTTPGTTTGTGTTGGPGTTTATT C

pGAGTTTTTAGGAGPGPGTAGGGGTTGPGCATCGCACTTCGCTTTGGCTGATT-Bk

pGAATTTTTTTPGGAAGTTTAGPGATTGTTTTTTPGTGCGGGAACACGAGGTCGTAT-Bk

pGTTTTTAGGTTAGGGTTTTTTPGTTAGATATTPGTAPGTTTGCACGGCTCGATAGGTCAAGCTTT-Bk

p53

p53 498C

p53 577C

p53 661C

p53 498Mcom (cZip 12)

p53 577Mcom (cZip 13)

p53 661Mcom (cZip 14)

Cy3 - TAGGPGGATTATTTGTTTTATTTGTTATGG C

Cy3 - GGGTTTTTTTTTTTTATGTGTTAAGATTGG C

Cy3 - TGGGTTTPGGGGATATTTTGP GTT C

pGATTGTTTAGTTTTGTGTTAGGAGTTTTPGTAGGGGAGACGCACCGCAACAGGCTGTCAA-Bk

pGTTAAAAGTTTTGAGTTTTTTTAAAAGTTTAGAGTTATCGTTTAGGCATCGCTGCAAGTACCGCACTCAA-Bk

pGGGTTGGGAGPGTGTTTTTAPGAPGGGCTGGGACGTGCAGACCGTTCAA-Bk

BRCA1

BRCA1 839C

BRCA1 963C

BRCA1 1068C

BRCA1 839Mcom (cZip 18)

BRCA1 963Mcom (cZip 19)

BRCA1 1068Mcom (cZip 20)

Cy3 - ATTTTGATTTTTPGTATAGTAATTATTGTGATGTAATAAGT C

Cy3 - GGGGGTAGATTGGGTGGTTAATTTAGAGTTT C

Cy3 - TAGPGGTAGTTTTTGGTTTTTTPGTGGTAA C

pGTAATTGGAAGAGTAGAGGTTAGAGGGTAGGTATTTTATGGGGGAGGCTGCTGTCCTTTTCGATCA-Bk

pGAGAGAPGTTTGGTTTTTTTTTGTGTTTTTTTATTTTTTGACAGCGTGTTCTGTTGCTGTCATCA-Bk

pGGAAAAGPGPGGAATTATAGATAAATTAATAATGATGGCGATGGTCCACTCGCAATCA-Bk

<u>LDR PRIMERS</u>	<u>SEQUENCE (5' to 3')</u>
APC	
APC 559T	Cy5 - TTTTGGTATTTTGTGTTAATTTTTTGTGTTTGT
APC 719T	Cy5 - TGTGTTTTATTGTGGAGTGTGGGTT
APC 783T	Cy5 - GATGTGGATTAGGGTGTGTTTTATTTTT
DAPK	
DAPK 300T	Cy5 - GTTTTTGTGTTAAAGGTGGTAAGGAGTT
DAPK 380T	Cy5 - TTTTGTGTTTTTTGTGGAGGGGATTT
DAPK 500T	Cy5 - TTTTGGTGTTGGTGTTTATGGTT
ECAD	
ECAD 190T	Cy5 - TTAGGAGTTTGAGGTTGTAGTGAGTTGTGATT
ECAD 359T	Cy5 - GTTGGGATTTGAATTTAGTGGAATTAGAATT
ECAD 429T	Cy5 - GAGGGTTATTGTGTTTATGTGAGGTT
GSTP1	
GSTP 925T	Cy5 - TTTAGGGAATTTTTTTTTGTGATGTTTT
GSTP 1028T	Cy5 - GATTTGGGAAAGAGGGAAAGGTTTTTTT
GSTP 1144T	Cy5 - GGGAGTTTGTGGGATTTTTTAGAAGAGT
MGMT	
MGMT 180T	Cy5 - TGGGTTTAGTGTAGTTGTTTTGAGTAGGATT
MGMT 237T	Cy5 - GATTTTTGTGTGTTTTTAGGATTATTT
MGMT 346T	Cy5 - AGTTTTAGGTGGAAGTTGGGAAGGT
RARβ	
RAR β 127T	Cy5 - GAAAGAAAATGTTGGTTTGTGTGTTT
RAR β 111T	Cy5 - TTTGTATTGTTTTTAAGGAGAGAAATAGGAAAGAAAAC
RAR β 411T	Cy5 - ATGTGAGTTGTTTGAGGATTGGGATGTT
RASSF1	
RASSF1 423T	Cy5 - GGTGTTGTGTTTGTAGTGTGTTAAAGTTAGT
RASSF1 518T	Cy5 - GGTGTGTTGGGAAGGGTTGTATTT
RASSF1 593T	Cy5 - TGTGTAATTTTATATGGTAGTTGGTTTTTGGTT
TIMP3	
TIMP3 288T	Cy5 - GGTTAGGGTGTAGATGAGAAGGGGTAT
TIMP3 363T	Cy5 - GTGTGTTTTAGTTTATTTATTTGTGTGTTTAT
TIMP3 456T	Cy5 - TTTGGTTTTGTTTTTTTTTTGGAGGGTT
p15 Ex1	
p15 Ex1 299T	Cy5 - GGATGTAGTTGAGTTTAAAGTTGTTTTGGTT
p15 Ex1 366T	Cy5 - GGTTTTTTTTTGGTGTTTAAGAATTAGTGGGT
p15 Ex1 430T	Cy5 - GTTGTTTTTTTTGTGGTTTGGGGTTTT
p16 Ex1	
p16 Ex1 351T	Cy5 - TTGTTTGTTTTTTTTTTTTTTGTAGTTGTTGAGT
p16 Ex1 438T	Cy5 - TGGGTTGTGGTTGTGGTTAGTTAGTTAGTT
p16 Ex1 520T	Cy5 - GGATTGGTTTTTTGATTGTAATTATTTGGTGT
p19 Ex1	
p19 Ex1 606T	Cy5 - TGTTTTTAGGGTTGAGTTTGGTAGTTGTTGT
p19 Ex1 673T	Cy5 - TGGGTTGTATGTGTGTTGAATTT
p19 Ex1 761T	Cy5 - AGTAGTATTAGTATGAGGGTTATAGTGGTGGGT

p21 S1

p21 S1 2968T

p21 S1 3036T

p21 S1 3142T

Cy5 - TTTT TTTT TTTT TAGT TTTT GTTT GTGT TGGTGT

Cy5 - TTAGTTGAGTTTGGTTGAGTTT TAGTAGGTTAGTT

Cy5 - GGGTTTGTTTTAAGGAGGTGGGATTT

p27 S1

p27 Ex1 575T

p27 Ex1 644T

p27 Ex1 770T

Cy5 - GGAGTTAAAAGATATAGATTTTGATGAGTTATGGTTT

Cy5 - AAAATAAAATTGAATAAAATAAAGTGT TTTTATGTAGTTT

Cy5 - GGGTGTTTTGTTTGT TTTGGTGTTTATTT

p53

p53 498T

p53 577T

p53 661T

Cy5 - TGGTAGGTGGATTATTTGTTTTTATTTGTTATGGT

Cy5 - ATTGGGGTTTTTTTTTTTTTATGTGTTTAAGATTGGT

Cy5 - TGTTGGGTTTTGGGGATATTTTGTGTTT

BRCA1

BRCA1 839T

BRCA1 963T

BRCA1 1068T

Cy5 - GTGATTTTGATTTTGTATAGTAATTATTGTGATGTAATAAGTT

Cy5 - TGGGGGTAGATTGGGTGGTTAATTTAGAGTTTT

Cy5 - TGTTTAGTGGTAGTTTTTTGGTTTTTGTGGTAAT

LDR PRIMERSSEQUENCE (5' to 3')**APC**

APC 570T	Cy5 - GGTATTTTGTGTTAATTTTTTTGTTTTGTGGATTTTTTTT
APC 645T	Cy5 - TGGGGATTGGGGTTGTGAGGGTATATTTTTT
APC 760T	Cy5 - AAGTGGAGAGAGAAGTAGTTGTGTAATTTGTTGGATGT
APC 570C	Cy3 - TGTTAATTTTTTTGTTTTGCGGATTTTTTTC
APC 645C	Cy3 - GGGATTGGGGTCGTGAGGGTATATTTTTT
APC 760C	Cy3 - AGAGAGAAGTAGTTGTGTAATTCGTTGGATGC
APC 570Mcom (cZip 27)	pGATTTTTTATTATGCGTGTTAATTGTTATTAATTTTTTTGTTTGGCACCGTGAACGACAGTTGCGATT - BK
APC 645Mcom (cZip 28)	pGAGGGGTACGGGGTTAGGGTTAGGTAGGTTTCGCAGGTTCGCTGCGTGTCTCTGATT - BK
APC 760MCom (cZip 29)	pGGATTAGGGCGTTTTTTATTTTCGTCTGGGCGCAAAGCAGACACAGGGTCGATT - BK

DAPK

DAPK 313T	Cy5 - GTTTAAAAGGTGGTAAGGAGTTGAGAGGTTGTTTTT
DAPK 429Tb	Cy5 - GGGGTTGGTGTTTGGGAGGGATTGT
DAPK 507T	Cy5 - TAGTTTTTGGTGTTGGTGTTTATGGTTGGTTTTT
DAPK 313C	Cy3 - AGGCGGTAAGGAGTCGAGAGGTTGTTTC
DAPK 429Cb	Cy3 - GGTCGGCGTTTTGGGAGGGATTGTC
DAPK 507C	Cy3 - GCGTTGGCGTTTATGGTCGGTTTTTC
DAPK 313Mcom (cZip 57)	pGGAGTGTGAGGAGGATAGTCGGATCGAGAAGCAAGCCAAGGTATGGCTTTGC - BK
DAPK 429Mcom (cZip 58)	pGTTTTTTATTTATTTTTTAGTTGTGTTTTCGTCGTCGTTTTCGGCTGTTCTAGGCAAGAGGT - BK
DAPK 507Mcom (cZip 59)	pGATAGCGTTTCGGAGGGATCGGGGTAGGGCACATGGGCACTTGCAGGT - BK

ECAD

ECAD 378T	Cy5 - GTTGGGGTTAGAGGATTGTTTGAGTTTAGGAGTTT
ECAD 548T	Cy5 - GTTTTAGTGAGTTATTGGTGGGGTTGGGATT
ECAD 647T	Cy5 - GGTTATTGTGTTTATGTGAGGTTGGGTGGGT
ECAD 378C	Cy3 - GGGGTTAGAGGATCGTTTGAGTTTAGGAGTTC
ECAD 548C	Cy3 - GTTATCGGCGGGGTTGGGATTTC
ECAD 647C	Cy3 - GTTTATGCGAGGTCGGGTGGGC
ECAD 378Mcom (cZip 60)	pGAGGTTGTAGTGAGTTGTGATCGTATTATTGTATTTTAGTTTGTTTCGGGGAGTCCGGTCCAGATCCT - BK
ECAD 548Mcom (cZip 61)	pGAATTTAGTGGAATTAGAATCGTGATAGGTTTTATAATTTATTTAGGCTCGTGTGTAGCTGCCGTTCCCT - BK
ECAD 647Mcom (cZip 62)	pGGGTCGTTAGTTTCGTTTTGGGGAGGGGTCAAGCGCTGAGGTGGTCCATC - BK

GSTP1

GSTP 938T	Cy5 - GGAATTTTTTTTTTGTGATGTTTTGGTGTTAGTTT
GSTP 1063T	Cy5 - GTTGTGTGGTGATTTTGGGGATTTTAGGGT
GSTP 1203T	Cy5 - GTGGAGTGGGGTGGGATTATTTTATAAGGTTT
GSTP 938C	Cy3 - CGCGATGTTTCGCGCGGTTAGTTC
GSTP 1063C	Cy3 - GGCGATTTTCGGGATTTTAGGGC
GSTP 1203C	Cy3 - GCGGGGCGGGATTATTTTATAAGGTTT
GSTP 938MCom (cZip 39)	pGTTGCGTATATTTTCGTTGCGGTTTTTTTTTTCGCTGGCTGACTCGCTGCGATGACA - BK
GSTP 1063MCom (cZip 40)	pGTTTTTTTTCGCGTCGACGTTTCGGGTTGCGCACCATCAGGTTAGGGACA - BK
GSTP 1203MCom (cZip 41)	pGGAGGTCGCGAGGTTTTCGTTGGAGCACCGATATGGAGACCGCAGACA - BK

MGMT

MGMT 196T	Cy5 - AGTGTAGTTGTTTTGAGTAGGATTGGGATTTTTATTAAGT
MGMT 253T	Cy5 - TGTGTGTTTTTAGGATTATTTGGGTATGTGGTAGGTT
MGMT 331T	Cy5 - AGGTATGGGTTATTTGGTAAATTAAGGTATAGAGTTTTAGGT
MGMT 196C	Cy3 - GTTTCGAGTAGGATCGGGATTTTTATTAAGC
MGMT 253C	Cy3 - TTTTATAGATTATTCGGGTACGTGGTAGGTC
MGMT 331C	Cy3 - CGGGTTATTTGGTAAATTAAGGTATAGAGTTTTAGGC
MGMT 196MCom (cZip 42)	pGGGCGTCGTTTTACGATTTTCGCGCATCGACAAGGTAACGCGTGGACA - BK
MGMT 253MCom (cZip 43)	pGTTTGTACGTTTCGCGGATTATTTTTGTGATAGGTGAGCGCAAGGTCAGAGCACGACA - BK
MGMT 331MCom (cZip 44)	pGGAAGTTGGGAAGGCGTCGTTTCGGAAGCCGCAGCACGATTCCGTGACA - BK

RARβ	
RARβ 123T	Cy5 - AAGGAGAGAAATAGGAAAGAAAATGTTGGTTTGTGT
RARβ 270T	Cy5 - TAGTTCGGGTAGGGTTTATCGAAAGTTTATTT
RARβ 450T	Cy5 - TGTGAGTGATTTGAGTAGGGTTTGTGGGTATT
RARβ 123C	Cy3 - AATAGGAAAGAAAACGTCGGTTTGTGC
RARβ 270C	Cy3 - AGTTCGGGTAGGGTTTATCGAAAGTTTATTC
RARβ 450C	Cy3 - AGCGATTTCGAGTAGGGTTTGTGGGTATC
RARβ 123Mcom (cZip 45)	pGTTTCGTTGTTTGTGTTTTTTGGTTGTTTGTGTTTGTGAGAAGCGTCCAAGCCAGAACGA - BK
RARβ 270Com (cZip 46)	pGTATATATTTAGGTAATTTAATTTTTTATTTTGTGTGATAGAAGTAGTAGGAAGCATCCAAGGTCCGACACGCAACGA - BK
RARβ 450Mcom (cZip 47)	pGTCGGGGTAGGATTCCGAACGTATTCTGTCGACGATTTCGCATCAACGCAAG - BK
RASSF1	
RASSF1 410T	Cy5 - TGTGTTTGTGGTTTTGTTTGGTTTTGTGTTTGTTAGT
RASSF1 512T	Cy5 - GGTATTTGTTGGGTGTGTTGGGAAGGGTT
RASSF1 602T	Cy5 - TAATTTTATATGGTAGTTGGTTTTTGGTTGTGGTTATT
RASSF1 410C	Cy3 - TTTCGTTTCGGTTCGCGTTTGTTAGC
RASSF1 512C	Cy3 - TTGGGCGCGTTGGGAAGGGTC
RASSF1 602C	Cy3 - ATACGGTAGTTGGTTTTTGGTCGTGGTTATC
RASSF1 410Mcom (cZip 48)	pGTTTAAAGTTAGCGAAGTACGGGTTTAATCGGGTAACGGGGAAGGTTGAGCGTGACAG - BK
RASSF1 512Mcom (cZip 49)	pGTATTCGGTTGGAGCGTGTTAACGCGTCACTGCACACGAAACGGCACACAG - BK
RASSF1 602Mcom (cZip 50)	pGTTTTTAGTTTCGCGGGGTTTCGTTACGTATTACCGACATCCTGGGATTGCATGG - BK
TIMP3	
TIMP3 297T	Cy5 - GGGTGTAGATGAGAAGGGGTATGAGGGTTTT
TIMP3 437T	Cy5 - GGTGGTTTTGTTTTGTTATTTTTTGTGTTTTGGTTTTT
TIMP3 494T	Cy5 - TAATGTGGTTTTGTTATTGGTTTGAGGGGGT
TIMP3 297C	Cy3 - GTAGACGAGAAGGGGTACGAGGGTTTC
TIMP3 437C	Cy3 - TTTCGTTTCGTTATTTTTTGTGTTTCGGTTTC
TIMP3 494C	Cy3 - CGGTTTTGTTATTGGTTTGAGGGGGC
TIMP3 297Mcom (cZip 54)	pGTTTCGAGGATTTAGCGGTAAGTATCGGTTTCGGGCTACGACGCATGTAAACGTTTCG - BK
TIMP3 437Mcom (cZip 55)	pGTTTTTTTTTTGGAGGGTCGATGAGGTAATGCGTCCCAAGTTGCGGCTCACTTTTCG - BK
TIMP3 494Mcom (cZip 56)	pGGGTTTTTAATAGTTCGAGGCGGGGTTTTTCGTGCGCACACTCACTGTCCTTCG - BK
p16 Ex1	
p16 Ex1 364T	Cy5 - GTTTTTTCGTTGTTTGTTGTTTGTGTTTTTTTTTTTTTTT
p16 Ex1 456T	Cy5 - CGTATTTTTTTTATTCGATTTTCGGGTTGTGGTT
p16 Ex1 525T	Cy5 - TTTTATTTATTTGGATCGGTTTTTCGATTGTAATTATTT
p16 Ex1 364C	Cy3 - CGTCGTTTCGTTGTTTGTGTTTTTTTTTTTTTTTTC
p16 Ex1 456C	Cy3 - TTATTCGATTTTCGGGTCGCGGTC
p16 Ex1 525C	Cy3 - TATTTGGATCGGTTTTTCGATCGTAATTATTC
p16Ex1 364Mcom (cZip 15)	pGTAGTCGTCGAGCGTACGCGGTTTCGTGCTGGCTGGCACGCACCAGAATCA - BK
p16Ex1 456Mcom (cZip 16)	pGTGGTTAGTTAGTTAGTCGAAGGTTTTATGTTGTTTTTCGGGCTCCGTCAGAAAGCGACAATCA - BK
p16Ex1 525Mcom (cZip 17)	pGGTGCGTTGGGTAGCGTTTTTCGTTTTTACGAGGGATACCCGCAAACGATCA - BK
p19 Ex1	
p19 Ex1 618T	Cy5 - CGTATTATGTTTTTCGTTGTTTTTAGGGTTGAGTTT
p19 Ex1 714T	Cy5 - ATTTTTTTCGTGAGTCGTGGGATGTGAATTAT
p19 Ex1 780T	Cy5 - CGGTTGTTGTTTTAGACGTTGGTTTTTTAGTAGTATTAGTAT
p19 Ex1 618C	Cy3 - ATGTTTTTCGTCGTTTTTAGGGTCGAGTTC
p19 Ex1 714C	Cy3 - TTTCGTGAGTCGCGGGATGTGAATTAC
p19 Ex1 780C	Cy3 - GTTGTTGTTTTTAGACGTTGGTTTTTTAGTAGTATTAGTAC
p19Ex1 618Mcom (cZip 21)	pGGTAGTCGTTGCGTCGTTTTTGGTATTAGAGTCCGTCCATGGCAAGCGTGATCA - BK
p19Ex1 714Mcom (cZip 22)	pGAAAATTTTTATTTCGCGGCGGGTCGTGGCTGCACCCGTTGAGGCACATCA - BK
p19Ex1 780Mcom (cZip 23)	pGAGGGTTATAGCGGCGGGCGTTTTTCAACATCGGCTAACGGTCCATCA - BK