

F20367WO.txt
SEQUENCE LISTING

<110> FOUNDATION MEDICINE, INC.
<120> OPTIMIZATION OF MULTIGENE ANALYSIS OF TUMOR SAMPLES
<130> F2036-7000WO
<140> PCT/US2011/067725
<141> 2011-12-29

<150> 61/552,884
<151> 2011-10-28

<150> 61/486,033
<151> 2011-05-13

<150> 61/486,006
<151> 2011-05-13

<150> 61/486,026
<151> 2011-05-13

<150> 61/486,012
<151> 2011-05-13

<150> 61/467,748
<151> 2011-03-25

<150> 61/467,798
<151> 2011-03-25

<150> 61/428,638
<151> 2010-12-30

<150> 61/428,626
<151> 2010-12-30

<150> 61/428,602
<151> 2010-12-30

<150> 61/428,568
<151> 2010-12-30

<160> 51
<170> PatentIn version 3.5

<210> 1
<211> 150
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
polynucleotide

<220>
<221> modified_base
<222> (16)..(135)
<223> a, c, t, g, unknown or other

<400> 1

F20367W0.txt

atcgccaccag cgtgtnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	120
nnnnnnnnnn nnnnnnccactg cggctcctca	150

<210> 2
 <211> 36
 <212> DNA
 <213> Homo sapiens

<400> 2 ccaaaactaa actgctcttt aaatatctta gacact	36
--	----

<210> 3
 <211> 36
 <212> DNA
 <213> Homo sapiens

<400> 3 ccaaaactaa actgctcttt aaatatctta gacact	36
--	----

<210> 4
 <211> 36
 <212> DNA
 <213> Homo sapiens

<400> 4 ccaacactaa actgctcttt aaatatctta gacact	36
--	----

<210> 5
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 consensus sequence

<400> 5 ccaaaactaa actgctcttt aaatatctta gacact	36
--	----

<210> 6
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polynucleotide

<400> 6 ccattgtgtg tgagcaaagg caccctgtcc agtctaacct gaatctctgt aggaagagggc	60
gtgcggctct actacatcgg aggggagggtc ttcgcagagt gcctcagtga cagcgctatt	120

<210> 7

<211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 7
 ctgtccagtc taacctgaat ctctgtagga agaggcgtgc ggctctacta catcggaggg 60
 gaggtcttcg cagagtgcct cagtgcacgc gctatttttg tccagtctcc caactgtaac 120

<210> 8
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 8
 gtaggaagag gcgtgcggct ctactacatc ggaggggagg tcttcgcaga gtgcctcagt 60
 gacagcgcta tttttgtcca gtctcccaac tgtaaccagc gctatggctg gcacccggcc 120

<210> 9
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 9
 tacatcggag gggaggtctt cgcagagtgc ctcagtgaca gcgctatatt tgtccagtct 60
 cccaactgta accagcgcta tggctggcac ccggccaccg tctgcaagat cccaccaggt 120

<210> 10
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 10
 gagtgcctca gtgacagcgc tttttttgtc cagtctccca actgtaacca gcgctatggc 60
 tggcaccggg ccaccgtctg caagatccca ccaggtaaac gagccgcaca ggcacccctg 120

<210> 11
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 11
 ttgtccagt ctccaactg taaccagcgc tatggctggc acccgccac cgtctgcaag 60
 atcccaccag gtaaacgagc cgcacaggca cccctgcctt gaggtccctc tccgagtga 120

<210> 12
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 12
 gacctggcca cttccatccc cacagccctg tttctgtgtt ttggcagga tgcaacctga 60
 agatcttcaa caaccaggag ttcgctgccc tcttgGCCa gtcggtcaac cagggtttg 120

<210> 13
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 13
 gccctgtttc tgtgtttttg gcaggatgca acctgaagat cttcaacaac caggagtctg 60
 ctgccctcct ggcccagtcg gtcaaccagg gctttgaggc tgtctaccag ttgacccgaa 120

<210> 14
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 14
 gatgcaacct gaagatcttc aacaaccagg agttcgctgc cctcctggcc cagtcggtca 60
 accagggtt tgaggctgtc taccagttga cccgaatgtg caccatccgc atgagcttcg 120

<210> 15
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic

polynucleotide

<400> 15
 accaggagtt cgctgccctc ctggcccagt cggtaacca gggctttgag gctgtctacc 60
 agttgaccgc aatgtgcacc atccgcatga gcttcgtcaa aggctgggga gcggagtaca 120

<210> 16
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polynucleotide

<400> 16
 cccagtcggt caaccagggc tttagaggctg tctaccagtt gacccgaatg tgcaccatcc 60
 gcatgagcct cgtcaaaggc tggggagcgg agtacaggctc agttatgggt gctgcctaca 120

<210> 17
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polynucleotide

<400> 17
 aggctgtcta ccagttgacc cgaatgtgca ccatccgcat gagcttcgtc aaaggctggg 60
 gagcggagta caggtcagtt atgggtgctg cctacatcag gggacccaac tccaggtgac 120

<210> 18
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polynucleotide

<400> 18
 tgtaaccccc tggagatattt ttaagtcccc caccacccc ctttcctat ttcttacagg 60
 agacagactg tgaccagtac cccctgctgg attgagctgc acctgaatgg gcctttgcag 120

<210> 19
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 polynucleotide

<400> 19

gtccccacc ccaccccttt ccctatttct tacaggagac agactgtgac cagtaccccc 60

tgctggattg agctgcacct gaatgggcct ttgcagtggc ttgacaaggt cctcaccag 120

<210> 20

<211> 120

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 20

atttcttaca ggagacagac tgtgaccagt accccctgct ggattgagct gcacctgaat 60

gggcctttgc agtggcttga caaggtcctc acccagatgg gctccccaag catccgctgt 120

<210> 21

<211> 120

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 21

accagtaccc cctgctggat tgagctgcac ctgaatgggc ctttgcagtg gcttgacaag 60

gtcctcacc agatgggctc cccaagcatc cgctgttcca gtgtgtctta gagacatcaa 120

<210> 22

<211> 120

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 22

ctgcacctga atgggccttt gcagtggctt gacaaggctc tcaccagat gggctcccca 60

agcatccgct gttccagtgt gtcttagaga catcaagtat ggtaggggag ggcaggcttg 120

<210> 23

<211> 120

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 23

tggcttgaca aggtcctcac ccagatgggc tcccaagca tccgctgttc cagtgtgtct 60

tagagacatc aagtatggta ggggagggca ggcttgggga aaatggccat gcaggagggtg 120

<210> 24
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 24
 cgtcgcgcgc caacgccggc atggcctccg gagcccgggg tcccaggcc gcgccggccc 60
 agccctgcga tgccgcctgg agcggcgcgc ctgcgcctgc aggtggctct cttaggatg 120

<210> 25
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 25
 cgtctcacgc caacgcaagc atgtcctccg gagcccgggg tcccaggcc gcgccggccc 60
 agccctgcga tgccgcctgg agcggcgcgc ctgcactgc agatggctct cttaggatg 120

<210> 26
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 26
 taccgagcag cggcagctgg ccgccgtcgc gcgccaacgc cggcatggcc tccggagccc 60
 ggggtcccca ggccgcgccg gccagccct gcgatgccgc ctggagcggc gcgcctcgcg 120

<210> 27
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 27
 taccgagcag cggcagctgg ccgccgtcgc gcgccaacgc cggcatggcc tccggagccc 60
 ggggtcccca ggccgcgcgc gccagccct gcgatgccgc cttgagcaac gcgcctcacg 120

<210> 28

<211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 28
 gctgagagcg agcgagcggg gccttaccga gcagcggcag ctggccgccg tcgagcgcca 60
 acgccggcat ggcctccgga gcccggggtc cccaggccgc gccgcccag ccctgcatg 120

<210> 29
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 29
 gcttcgagag agcgagcggg gccttaccga gcagcagcag ctggccgccg tcgagcgcca 60
 acgccggcat ggcctccgga gcccggggtc cccaggccgc gccagcccag ccctgagatg 120

<210> 30
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 30
 gtgggggctg agggaccgag aggggctgag agcgagcag cggggcctta ccgagcagcg 60
 gcagctggcc gccgtcgcgc gccaacgcgc gcatggcctc cggagcccag ggtccccagg 120

<210> 31
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 31
 gaggtggctg agagaccgag aggagctgag agcgagcag cggggcctta ccgagcagcg 60
 gcagctggcc gccgtcgcgc gccaacgcag gcatggcctc cggagcccag ggtccccagg 120

<210> 32
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

 <400> 32
 cgaggcggct gggccggagg aggcgcgcgc ccgggtccac actgcggggt gggggctgag 60
 ggaccgcgag gggctgcgag cgagcgagcg gggccttacc gagcagcggc agctggccgc 120

 <210> 33
 <211> 120
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

 <400> 33
 cgaggcggct gggccggagg aggcgcgcgc ccggatccac actgcggggt gggggctgag 60
 ggaccgcgag gggctgcgag cgagcgagcg gggacttacc gagcagcggc aactggacgc 120

 <210> 34
 <211> 120
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

 <400> 34
 gcgcgcccgg gtccacactg cggggtgggg gctgagggac cgcgaggggc tgcgagcgag 60
 cgagcggggc cttaccgagc agcggcagct ggccgccgtc gcgcgccaac gccggcatgg 120

 <210> 35
 <211> 120
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

 <400> 35
 gcacgcacgg atccacactg cggggtgggg gctgagggac cgcgaggagc tgcgagcgag 60
 cgagcggggc cttaccgagc agcggcagct ggcagccgtc gcgcgccaac gccggcatgg 120

 <210> 36
 <211> 120
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic

F20367W0.txt

polynucleotide

<400> 36
tcgcaggcac agcgcggcgc cccgctgcat ctccggccgc tgcgcgtggg tccgacccga 60
gcggccgcgg ctcggggctg aaagtgtccg cgcgggcgcc ggctggcctg gggcggggcg 120

<210> 37
<211> 120
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 37
cacacacaca agcgcggcgc cccgctgcat ctccggccgc tgcgcgtggg tccgacccga 60
gcggccgcgg ctcggggctg aaagtgtccg cgcgggcgcc ggctggcctg cacacacaca 120

<210> 38
<211> 120
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 38
ggcggagcgg tctcagcgcc cgccccaggt gcgcggtacc ccctccccgg ccagccccac 60
gctcgggcgg gtggcccgtt cgccgcgctc accgtccagg agtcccaggc agagccacag 120

<210> 39
<211> 120
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 39
cacacacaca tctcagcgcc cgccccaggt gcgcggtacc ccctccccgg ccagccccac 60
gctcgggcgg gtggcccgtt cgccgcgctc accgtccagg agtcccaggc cacacacaca 120

<210> 40
<211> 120
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 40

F20367WO.txt

```

ccagggtgcgc ggtacccccct ccccggccag cccacgctc gggcggtgg cccgttcgcc      60
gcgctcaccg tccaggagtc ccaggcagag ccacagtcgc aggcacagcg cggcgccccg      120

<210> 41
<211> 120
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polynucleotide

<400> 41
cacacacaca ggtacccccct ccccggccag cccacgctc gggcggtgg cccgttcgcc      60
gcgctcaccg tccaggagtc ccaggcagag ccacagtcgc aggcacagcg cacacacaca      120

<210> 42
<211> 120
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polynucleotide

<400> 42
ggcccggttcg ccgcgctcac cgtccaggag tcccaggcag agccacagtc gcaggcacag      60
cgcgcgcccc cgctgcatct ccggccgctg cgcgtgggtc cgacccgagc ggccgcggct      120

<210> 43
<211> 120
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polynucleotide

<400> 43
cacacacaca ccgcgctcac cgtccaggag tcccaggcag agccacagtc gcaggcacag      60
cgcgcgcccc cgctgcatct ccggccgctg cgcgtgggtc cgacccgagc cacacacaca      120

<210> 44
<211> 120
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
      polynucleotide

<400> 44
ggccagcccc acgctcgggc gggtagcccc ttcccgcgcg tcaccgtcca ggagtcccag      60
gcagagccac agtcgcaggc acagcgcggc gccccgctgc atctccggcc gctgcgcgtg      120

```

<210> 45
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 45
 cacacacaca acgctcgggc gggaggcccg ttcgccgcgc tcaccgtcca ggagtcacag 60
 gcagagccac agtcgcaggc acagcgcgcc gccccgctgc atctccggcc cacacacaca 120

<210> 46
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 46
 caggagtccc aggcagagcc acagtcgcag gcacagcgcg gcgccccgct gcatctccgg 60
 ccgctgcgcg tgggtccgac ccgagcggcc gcggctcggg gctgaaagtg tccgcgcggg 120

<210> 47
 <211> 120
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic polynucleotide

<400> 47
 cacacacaca aggcagagcc acagtcgcag gcacagcgcg gcgccccgct gcatctccgg 60
 ccgctgcgcg tgggtccgac ccgagcggcc gcggctcggg gctgaaagtg cacacacaca 120

<210> 48
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 48
 aatgatacgg cgaccaccga gat 23

<210> 49
 <211> 21
 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 49

caagcagaag acggcatacg a

21

<210> 50

<211> 10

<212> DNA

<213> Homo sapiens

<400> 50

ttaagagaag

10

<210> 51

<211> 11

<212> DNA

<213> Homo sapiens

<400> 51

acagaaagac a

11