SEQUENCE LISTING

<110> CORNELL UNIVERSITY

<120> METHOD AND MARKERS FOR IDENTIFYING AND RELATIVE QUANTIFYING OF NUCLEIC ACID SEQUENCE, MUTATION, COPY NUMBER, OR METHYLATION CHANGES USING COMBINATIONS OF NUCLEASE, LIGATION, DEAMINATION, DNA REPAIR, AND POLYMERASE REACTIONS WITH CARRYOVER PREVENTION

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<170> PatentIn version 3.5

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tgtctaagcc gcctatgtaa cc 22

<210> 82
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5408-SEMA3B-S1-PCR-V

<220>
<221> misc_feature
<222> (45)..(45)
<223> N at position 45 is riboadenosine

<400> 82
tgtctaagcc gcctatgtaa cccgctcctc taccaacacc tatgnacag 49

<210> 83
<211> 22

<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5421-GATA5-S1-FP

<220>
<221> misc_feature
<222> (18)..(18)
<223> N at position 18 is riboguanosine

<400> 83
cgcggtcgta ggacgtangg tc 22

<210> 84
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5422B-GATA5-S1-RP

<220>
<221> misc_feature
<222> (43)..(43)
<223> N at position 43 is riboguanosine

<400> 84
ggtgtcgtgg agttcaacat aattccaacc cgaactacaa ccncgca 47

<210> 85
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5423-GATA5-S1-Up

<220>
<221> misc_feature
<222> (44)..(44)
<223> N at position 44 is riboguanosine

<400> 85
ttgtctctgc gacccatcaa gtaggacgta gggtttggag ggcnggac 48

<210> 86
<211> 42

<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5424-GATA5-S1-Dn

<400> 86
gggatttcgt cgcgttggga gggttggtac acgttcggca ca 42

<210> 87
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5425-GATA5-S1-RT-Pb

<400> 87
aaggagggcg ggatttcgtc gc 22

<210> 88
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5426-GATA5-S1-RT-FP

<400> 88
ttgtctctgc gacccatcaa 20

<210> 89
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5427-GATA5-S1-RT-RP

<400> 89
tgtgccgaac gtgtaccaa 19

<210> 90
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5428-GATA5-S1-PCR-V

<220>
<221> misc_feature
<222> (37)..(37)
<223> N at position 37 is ribocytosine

<400> 90
tgtgccgaac gtgtaccaac ccgacccctc ccaatgngac a 41

<210> 91
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5431-ZNF542-S1-FP

<220>
<221> misc_feature
<222> (26)..(26)
<223> N at position 26 is riboguanosine

<400> 91
cgtttttgta tttcggttat tgggancgga 30

<210> 92
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5432B-ZNF542-S1-RP

<220>
<221> misc_feature
<222> (51)..(51)
<223> N at position 51 is riboguanosine

<400> 92
ggtgtcgtgg agttcaacat aatacgcccg aataatttct aaaaataaac naaag 55

<210> 93
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5433-ZNF542-S1-Up

<220>
<221> misc_feature
<222> (40)..(40)
<223> N at position 40 is riboguanosine

<400> 93
tttcgctcga cgcataccac ggttattggg agcgggatcn tgaa 44

<210> 94
<211> 51
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5434-ZNF542-S1-Dn

<400> 94
gtgggagttg tatatgcgta ttgcgagttt tctggcgcgg ctactgtaaa a 51

<210> 95
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5435-ZNF542-S1-RT-Pb

<400> 95
ttcgggatcg tgggagttgt atatgcg 27

<210> 96
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5436-ZNF542-S1-RT-FP

<400> 96
tttcgctcga cgcatacca 19

<210> 97
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5437-ZNF542-S1-RT-RP

<400> 97
ttttacagta gccgcgcca 19

<210> 98
<211> 57
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5438-ZNF542-S1-PCR-V

<220>
<221> misc_feature
<222> (53)..(53)
<223> N at position 53 is ribocytosine

<400> 98
ttttacagta gccgcgccac ccgaataatt tctaaaaata aacgaaaact tgnaatg 57

<210> 99
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5441-RCN3-S1-FP

<220>
<221> misc_feature
<222> (24)..(24)
<223> N at position 24 is riboguanosine

<400> 99
cgtgaggcgt tgtgattaga atanttga 28

<210> 100
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5442B-RCN3-S1-RP

<220>
<221> misc_feature
<222> (46)..(46)
<223> N at position 46 is riboadenosine

<400> 100
ggtgtcgtgg agttcaacat aattaacgcg accgaaaaaa actacnactt 50

<210> 101
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5443-RCN3-S1-Up

<220>
<221> misc_feature
<222> (49)..(49)
<223> N at position 49 is riboguanosine

<400> 101
ttgcacgttg tcctgcaccc gttgtgatta gaatagttgg aggtgaacng tga 53

<210> 102
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5444-RCN3-S1-Dn

<400> 102
ggtagagtgt cgcgacgatt gttaggagtg gtagtttccc atgacggca 49

<210> 103
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5445-RCN3-S1-RT-Pb

<400> 103
ttggtgaacg gtagagtgtc gcgac 25

<210> 104
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5446-RCN3-S1-RT-FP

<400> 104
ttgcacgttg tcctgcacc 19

<210> 105
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5447-RCN3-S1-RT-RP

<400> 105
tgccgtcatg ggaaactacc 20

<210> 106
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5448-RCN3-S1-PCR-V

<220>
<221> misc_feature
<222> (51)..(51)
<223> N at position 51 is ribouridine

<400> 106
tgccgtcatg ggaaactacc accgaaaaaa actacaactc ctaacaattg ncgca 55

<210> 107
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5451-MYO15B-S1-FP

<220>
<221> misc_feature
<222> (27)..(27)
<223> N at position 27 is riboguanosine

<400> 107
tttaggagtt ttaatggaga tacgtcnggt a 31

<210> 108
<211> 48

<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5452B-MYO15B-S1-RP

<220>
<221> misc_feature
<222> (44)..(44)
<223> N at position 44 is ribouridine

<400> 108
ggtgtcgtgg agttcaacat aatccgaact ataccgcgct aacnacca 48

<210> 109
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5453-MYO15B-S1-Up

<220>
<221> misc_feature
<222> (44)..(44)
<223> N at position 44 is riboguanosine

<400> 109
ttagccgcca aacgtaccat gggaacggag gtagtttttg ctcngacg 48

<210> 110
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5454-MYO15B-S1-Dn

<400> 110
ggatagcgaa attcgcgagg tttaggagag tgggcaggaa cacgatagta 50

<210> 111
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5455-MYO15B-S1-RT-Pb

<400> 111
cctttgctcg gatagcgaaa ttcgcga 27

<210> 112
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5456-MYO15B-S1-RT-FP

<400> 112
ttagccgcca aacgtacca 19

<210> 113
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5457-MYO15B-S1-RT-RP

<400> 113
tactatcgtg ttcctgccca 20

<210> 114
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5458-MYO15B-S1-PCR-V

<220>
<221> misc_feature
<222> (45)..(45)
<223> N at position 45 is ribocytosine

<400> 114
tactatcgtg ttcctgccca cgaactatac cgcgctaact actgntctt 49

<210> 115
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5461-ANKRD13B-S1-FP

<220>
<221> misc_feature
<222> (19)..(19)
<223> N at position 19 is riboguanosine

<400> 115
cgagtagttg cggttggcna tga 23

<210> 116
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5462B-ANKRD13B-S1-RP

<220>
<221> misc_feature
<222> (44)..(44)
<223> N at position 44 is ribocytosine

<400> 116
ggtgtcgtgg agttcaacat aatccaactc ctcctcctcc taangcgt 48

<210> 117
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5463-ANKRD13B-S1-Up

<220>
<221> misc_feature
<222> (41)..(41)
<223> N at position 41 is riboguanosine

<400> 117
ttcgtacctc ggcacaccag cggttggcga tggaattatc ngcac 45

<210> 118
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5464-ANKRD13B-S1-Dn

<400> 118
ggcgtaggag taggaggaga ggcgtggctc cgttactctg tcga 44

<210> 119
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5465-ANKRD13B-S1-RT-Pb

<400> 119
ccaattatcg gcgtaggagt aggaggagag g 31

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

<220>
<223> AcDx-5466-ANKRD13B-S1-RT-FP

<400> 120
ttcgtacctc ggcacacca 19

<210> 121
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5467-ANKRD13B-S1-RT-RP

<400> 121
tcgacagagt aacggagcca 20

<210> 122
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5468-ANKRD13B-S1-PCR-V

<220>
<221> misc_feature
<222> (43)..(43)
<223> N at position 43 is ribocytosine

<400> 122
tcgacagagt aacggagcca ccaactcctc ctcctcctaa tgngcgt 47

<210> 123
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5471-FAM115A-S1-FP

<220>
<221> misc_feature
<222> (19)..(19)
<223> N at position 19 is riboguanosine

<400> 123
aggttggtgt tggtggtcng cga 23

<210> 124
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5472B-FAM115A-S1-RP

<220>
<221> misc_feature
<222> (51)..(51)
<223> N at position 51 is ribocytosine

<400> 124
ggtgtcgtgg agttcaacat aatcgctaac aatacctaaa taaccgaaac ngcgt 55

<210> 125
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5473-FAM115A-S1-Up

<220>
<221> misc_feature
<222> (40)..(40)
<223> N at position 40 is riboguanosine

<400> 125
tttgcctctt gtaggtgcca gaggttgggt gtagggagcn ataa 44

<210> 126
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5474-FAM115A-S1-Dn

<400> 126
gatggtggag gtgatagggt ggttggtggg caacgcggat attca 45

<210> 127
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5475-FAM115A-S1-RT-Pb

<400> 127
aaagggagcg atggtggagg tga 23

<210> 128
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5476-FAM115A-S1-RT-FP

<400> 128
tttgcctctt gtaggtgcca 20

<210> 129
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5477-FAM115A-S1-RT-RP

<400> 129
tgaatatccg cgttgccca 19

<210> 130
<211> 52

<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5478-FAM115A-S1-PCR-V

<220>
<221> misc_feature
<222> (48)..(48)
<223> N at position 48 is ribocytosine

<400> 130
tgaatatccg cgttgcccat aacaatacct aaataaccga aaccgtgnca at 52

<210> 131
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5491-RGS10-S1-FP

<220>
<221> misc_feature
<222> (17)..(17)
<223> N at position 17 is riboguanosine

<400> 131
cgttcgtagc ggaggcngag g 21

<210> 132
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5492B-RGS10-S1-RP

<220>
<221> misc_feature
<222> (43)..(43)
<223> N at position 43 is riboadenosine

<400> 132
ggtgtcgtgg agttcaacat aataaaaacg ccccaaatct ccnaacg 47

<210> 133
<211> 45

<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5493-RGS10-S1-Up

<220>
<221> misc_feature
<222> (41)..(41)
<223> N at position 41 is riboguanosine

<400> 133
tccctcgtca tctcccttac ccggagggag aagttcgtgc ntcac 45

<210> 134
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5494-RGS10-S1-Dn

<400> 134
gtcgtttcgt tttcggaatt tggagtttta tgttattttg gtcttggtga tggagcga 58

<210> 135
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5495-RGS10-S1-RT-Pb

<400> 135
ccttcgtgcg tcgtttcgtt ttcgga 26

<210> 136
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5496-RGS10-S1-RT-FP

<400> 136
tccctcgtca tctcccttac c 21

<210> 137
<211> 19

<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5497-RGS10-S1-RT-RP

<400> 137
tcgctccatc accaagacc 19

<210> 138
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5498-RGS10-S1-PCR-V

<220>
<221> misc_feature
<222> (56)..(56)
<223> N at position 56 is riboadenosine

<400> 138
tcgctccatc accaagaccc caaactttaa aaataacata aaactccaaa ttctgnaaat 60

<210> 139
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5501-HCG4-S1-FP

<220>
<221> misc_feature
<222> (22)..(22)
<223> N at position 22 is riboguanosine

<400> 139
gtcggaatat tgggaagagg anataa 26

<210> 140
<211> 54
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5502B-HCG4-S1-RP

<220>
<221> misc_feature
<222> (50)..(50)
<223> N at position 50 is riboadenosine

<400> 140
ggtgtcgtgg agttcaacat aatcctcact ctaattataa taaccgctcn aaac 54

<210> 141
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5503-HCG4-S1-Up

<220>
<221> misc_feature
<222> (51)..(51)
<223> N at position 51 is riboguanosine

<400> 141
ttctagatac cacggacgca ccggaatatt gggaagagga gatagggttc nttgg 55

<210> 142
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5504-HCG4-S1-Dn

<400> 142
gttaaggtta aagtatagtt ttatcgagtg aatttgcgga ttttgtgttg gtgtgcaaag 60

ctga 64

<210> 143
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5505-HCG4-S1-RT-Pb

<400> 143
ccagggttcg ttaaggttaa agtatagttt tatcgagtga 40

<210> 144
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5506-HCG4-S1-RT-FP

<400> 144
ttctagatac cacggacgca c 21

<210> 145
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5507-HCG4-S1-RT-RP

<400> 145
tcagctttgc acaccaacac 20

<210> 146
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> AcDx-5508-HCG4-S1-PCR-V

<220>
<221> misc_feature
<222> (54)..(54)
<223> N at position 54 is ribocytosine

<400> 146
tcagctttgc acaccaacac ctcactctaa ttataataac cgctcaaaat ctgnaaac 58