SEQUENCE LISTING

<110> NanoString Technologies, Inc.
Beechem, Joseph
Kim, Dae
Hoang, Margaret
Gregory, Mark
Piazza, Erin
Zhou, Denise

<120> BIOMOLECULAR PROBES AND METHODS OF DETECTING GENE AND PROTEIN EXPRESSION

<130> NATE-037/001WO

<150> US 62/629,180
<151> 2018-02-12

<150> US 62/771,212
<151> 2018-11-26

<160> 174

<170> PatentIn version 3.5

<210> 1
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> i7 sequence

<400> 1
agatcggaag agcacacgtc tgaactccag tcac 34

<210> 2
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> i5 sequence

<400> 2
acactctttc cctacacgac gctcttccga 30

<210> 3
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> P5 flow cell adapter

<400> 3
aatgatacgg cgaccaccga gatctacac 29

<210> 4
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> P7 flow cell adapter

<400> 4
atctcgtatg ccgtcttctg cttg 24

<210> 5
<211> 78
<212> DNA
<213> Artificial Sequence

<220>
<223> DSP_NGS_i501 Primer

<400> 5
aatgatacgg cgaccaccga gatctacacg ctcagatata gcctacactc tttaagacga 60

cgtcgctatg gcctctcc 78

<210> 6

<211> 78
<212> DNA
<213> Artificial Sequence

<220>
<223> DSP_NGS_i502 Primer

<400> 6
aatgatacgg cgaccaccga gatctacacg ctcagaatag aggcacactc tttaagacga 60

cgtcgctatg gcctctcc 78

<210> 7
<211> 78
<212> DNA
<213> Artificial Sequence

<220>
<223> DSP_NGS_i503 Primer

<400> 7
aatgatacgg cgaccaccga gatctacacg ctcagaccta tcctacactc tttaagacga 60

cgtcgctatg gcctctcc 78

<210> 8
<211> 78
<212> DNA
<213> Artificial Sequence

<220>
<223> DSP_NGS_i504 Primer

<400> 8
aatgatacgg cgaccaccga gatctacacg ctcagaggct ctgaacactc tttaagacga 60

cgtcgctatg gcctctcc 78

<210> 9
<211> 78
<212> DNA

<213> Artificial Sequence

<220>
<223> DSP_NGS_i505 Primer

<400> 9
aatgatacgg cgaccaccga gatctacacg ctcagaaggc gaagacactc tttaagacga 60

cgtcgctatg gcctctcc 78

<210> 10
<211> 78
<212> DNA
<213> Artificial Sequence

<220>
<223> DSP_NGS_i506 Primer

<400> 10
aatgatacgg cgaccaccga gatctacacg ctcagataat cttaacactc tttaagacga 60

cgtcgctatg gcctctcc 78

<210> 11
<211> 78
<212> DNA
<213> Artificial Sequence

<220>
<223> DSP_NGS_i507 Primer

<400> 11
aatgatacgg cgaccaccga gatctacacg ctcagacagg acgtacactc tttaagacga 60

cgtcgctatg gcctctcc 78

<210> 12
<211> 78
<212> DNA
<213> Artificial Sequence

<220>
<223> DSP_NGS_i508 Primer

<400> 12
aatgatacgg cgaccaccga gatctacacg ctcagagtac tgacacactc tttaagacga 60

cgtcgctatg gcctctcc 78

<210> 13
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i701 Primer

<400> 13
caagcagaag acggcatacg agatcgagta atgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 14
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i702 Primer

<400> 14
caagcagaag acggcatacg agattctccg gagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 15
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i703 Primer

<400> 15
caagcagaag acggcatacg agataatgag cggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 16
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i704 Primer

<400> 16
caagcagaag acggcatacg agatggaatc tcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 17
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i705 Primer

<400> 17
caagcagaag acggcatacg agatttctga atgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 18
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i706 Primer

<400> 18

caagcagaag acggcatacg agatacgaat tcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 19
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i707 Primer

<400> 19
caagcagaag acggcatacg agatagcttc aggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 20
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i708 Primer

<400> 20
caagcagaag acggcatacg agatgcgcat tagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 21
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i709 Primer

<400> 21
caagcagaag acggcatacg agatcatagc cggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 22
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i710 Primer

<400> 22
caagcagaag acggcatacg agatttcgcg gagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 23
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i711 Primer

<400> 23
caagcagaag acggcatacg agatgcgcga gagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 24
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i712 Primer

<400> 24
caagcagaag acggcatacg agatctatcg ctgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 25
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Spike-in primer

<400> 25
acactcttta agacgacgtc gctatggcct ctcc 34

<210> 26
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Amplification primer binding site

<400> 26
gtgactggag ttcagacgtg tgctcttccg atct 34

<210> 27
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P01_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 27
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnt tgaagcacac 60

cgtttttctt tcttctttca cgg 83

<210> 28
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P03_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 28
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnna cccacaggtt 60

atacgggatt atccggttat cca 83

<210> 29
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P04_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 29
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnc gacaccgagt 60

tcgaccgtta tgttggtagg atc 83

<210> 30
<211> 83
<212> DNA

<213> Artificial Sequence

<220>
<223> P05_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 30
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnc ggtgtgtaag 60

cgtaacgatg ttggtgtcgc tct 83

<210> 31
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P06_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 31
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnc agacactgcg 60

acaactcacg atcatgacac aga 83

<210> 32
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P07_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 32
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnna tattctgtac 60

tcagtgccta tccacctaat agg 83

<210> 33
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P09_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 33
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnt tcagttataa 60

tgtgtccagc agaagcagga att 83

<210> 34
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P11_PriExtUMI15_tpt

<220>
<221> misc_feature

<222> (35)..(49)
<223> n is a, c, g, or t

<400> 34
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnng tcctttgttg 60

ggcggaccgt aatgaggaat ttg 83

<210> 35
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P13_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 35
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnng atgagacttc 60

tacatgtccg atgtttttgt gct 83

<210> 36
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P15_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 36

gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnna ctcacacata 60

gtactgacac gtaagatagg atg 83

<210> 37
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P16_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 37
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnt taccctatct 60

cgtctatgta cgtcaggctg aat 83

<210> 38
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P17_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 38
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnna tcaacgtagg 60

gtaaggtcat atttttacct tac 83

<210> 39
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P18_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 39
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnt tccctctttc 60

tccgcttatg gatgaaagga cag 83

<210> 40
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P19_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 40
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnc ctgcacagtg 60

agtttctttc actctaactc tct 83

<210> 41
<211> 83
<212> DNA

<213> Artificial Sequence

<220>
<223> P20_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 41
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnt gtcgctctag 60

tgtgactttt ccacctcgca tct 83

<210> 42
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P21_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 42
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnna tatctttctc 60

gggtaaagat taggcgtccg ata 83

<210> 43
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P23_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 43
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnc gattagccgt 60

agacgcaact cattgccgaa gat 83

<210> 44
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P24_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 44
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnt gtgagcattt 60

cagtacgagt gatgcagata aac 83

<210> 45
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P25_PriExtUMI15_tpt

<220>
<221> misc_feature

<222> (35)..(49)
<223> n is a, c, g, or t

<400> 45
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnt atagttacca 60

agtactatgg gttggtggaa gcc 83

<210> 46
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P26_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 46
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnc caattatact 60

gtctgttatg ttctcggata agc 83

<210> 47
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P27_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 47

gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnt caggtgcttg 60

taggctcatg ataggggtaa tgc 83

<210> 48
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P28_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 48
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnc tctgctgtaa 60

tctcagctcc acttgtttct aag 83

<210> 49
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P29_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 49
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnng tgcatattgc 60

agctgagcca gctcaatttg aag 83

<210> 50
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P30_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 50
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnc cgttgattta 60

cgcaacagcg gcttatatag ctc 83

<210> 51
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P31_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 51
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnc atcatcgaca 60

gttcgcagcc ctataacatg ata 83

<210> 52
<211> 83
<212> DNA

<213> Artificial Sequence

<220>
<223> P32_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 52
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnna tcgcaggatg 60

gtacagcatc atacatgatg agc 83

<210> 53
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P33_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 53
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnna tcgcaggatg 60

gtacagcatc atacatgatg agc 83

<210> 54
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P34_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 54
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnna tggcggtttc 60

gggtcctgca ctattcctaa taa 83

<210> 55
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P35_PriExtUMI15_tpt

<220>
<221> misc_feature
<222> (35)..(49)
<223> n is a, c, g, or t

<400> 55
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnc cagtacgggt 60

actaataagt gtcatatcta ttg 83

<210> 56
<211> 83
<212> DNA
<213> Artificial Sequence

<220>
<223> P36_PriExtUMI15_tpt

<220>
<221> misc_feature

<222> (35)..(49)
<223> n is a, c, g, or t

<400> 56
gtgactggag ttcagacgtg tgctcttccg atctnnnnnn nnnnnnnnnt gttggagagg 60

ttagaggtga ggaggcgaag ata 83

<210> 57
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 57
caagcagaag acggcatacg agatgtcggt aagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 58
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 58
caagcagaag acggcatacg agataggtca ctgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 59
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 59
caagcagaag acggcatacg agatgaatcc gagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 60
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 60
caagcagaag acggcatacg agatgtacct tggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 61
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 61
caagcagaag acggcatacg agatcatgag gagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 62
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 62

caagcagaag acggcatacg agattgactg acgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 63
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 63
caagcagaag acggcatacg agatcgtatt cggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 64
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 64
caagcagaag acggcatacg agatctccta gagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 65
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 65
caagcagaag acggcatacg agattagttg cggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 66
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 66
caagcagaag acggcatacg agatgagata cggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 67
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 67
caagcagaag acggcatacg agataggtgt acgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 68
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 68
caagcagaag acggcatacg agattaatgc cggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 69
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 69
caagcagaag acggcatacg agattcagac gagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 70
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 70
caagcagaag acggcatacg agatgatagg ctgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 71
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 71
caagcagaag acggcatacg agattggtac aggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 72

<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 72
caagcagaag acggcatacg agatcaaggt ctgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 73
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 73
caagcagaag acggcatacg agatgctatc ctgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 74
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 74
caagcagaag acggcatacg agatatggaa gggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 75
<211> 66
<212> DNA

<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 75
caagcagaag acggcatacg agattcaagg acgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 76
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 76
caagcagaag acggcatacg agatgttacg cagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 77
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 77
caagcagaag acggcatacg agatagtctg tggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 78
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 78
caagcagaag acggcatacg agatgcacgt aagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 79
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 79
caagcagaag acggcatacg agataacctt gggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 80
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 80
caagcagaag acggcatacg agatattgcg tggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 81
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 81
caagcagaag acggcatacg agatacctgg aagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 82
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 82
caagcagaag acggcatacg agatggagat gagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 83
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 83
caagcagaag acggcatacg agatgtactc tcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 84
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 84

caagcagaag acggcatacg agatgtaacg acgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 85
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 85
caagcagaag acggcatacg agatattcct ccgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 86
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 86
caagcagaag acggcatacg agatgtgttc ctgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 87
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 87
caagcagaag acggcatacg agataagcac tggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 88
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 88
caagcagaag acggcatacg agatctagca aggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 89
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 89
caagcagaag acggcatacg agattgcttc cagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 90
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 90
caagcagaag acggcatacg agatgcttag ctgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 91
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 91
caagcagaag acggcatacg agataaccgt tcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 92
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 92
caagcagaag acggcatacg agatgacatt ccgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 93
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 93
caagcagaag acggcatacg agatagaccg tagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 94

<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 94
caagcagaag acggcatacg agatgatact gggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 95
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 95
caagcagaag acggcatacg agattgcgta gagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 96
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 96
caagcagaag acggcatacg agattcggtt acgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 97
<211> 66
<212> DNA

<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 97
caagcagaag acggcatacg agatatgacg tcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 98
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 98
caagcagaag acggcatacg agatgctgta aggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 99
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 99
caagcagaag acggcatacg agatgcaatg gagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 100
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 100
caagcagaag acggcatacg agatatctcg ctgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 101
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 101
caagcagaag acggcatacg agatggctat tggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 102
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 102
caagcagaag acggcatacg agatggtgtc ttgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 103
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 103
caagcagaag acggcatacg agattcaact gggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 104
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 104
caagcagaag acggcatacg agatcttcac cagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 105
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 105
caagcagaag acggcatacg agatacggtc ttgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 106
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 106

caagcagaag acggcatacg agattctcgc aagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 107
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 107
caagcagaag acggcatacg agatggaatt gcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 108
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 108
caagcagaag acggcatacg agatacggat tcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 109
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 109
caagcagaag acggcatacg agatttaagc gggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 110
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 110
caagcagaag acggcatacg agattgcagg tagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 111
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 111
caagcagaag acggcatacg agatcaatcg acgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 112
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 112
caagcagaag acggcatacg agatgtgcca tagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 113
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 113
caagcagaag acggcatacg agattgttcg aggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 114
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 114
caagcagaag acggcatacg agattggagt tggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 115
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 115
caagcagaag acggcatacg agatacgatg acgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 116

<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 116
caagcagaag acggcatacg agattgatgt ccgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 117
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 117
caagcagaag acggcatacg agattgaacc tggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 118
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 118
caagcagaag acggcatacg agatcttcgt tcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 119
<211> 66
<212> DNA

<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 119
caagcagaag acggcatacg agatcttctg aggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 120
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 120
caagcagaag acggcatacg agattgctca tggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 121
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 121
caagcagaag acggcatacg agatagttcg tcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 122
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 122
caagcagaag acggcatacg agattagcgt ctgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 123
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 123
caagcagaag acggcatacg agatggcgtt atgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 124
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 124
caagcagaag acggcatacg agatggtgat tcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 125
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 125
caagcagaag acggcatacg agataacttg ccgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 126
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 126
caagcagaag acggcatacg agatgcaaga tcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 127
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 127
caagcagaag acggcatacg agattcgcat tggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 128
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 128

caagcagaag acggcatacg agattgtaca ccgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 129
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 129
caagcagaag acggcatacg agatagctcc tagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 130
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 130
caagcagaag acggcatacg agatgcaatt cggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 131
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 131
caagcagaag acggcatacg agatcttagg acgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 132
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 132
caagcagaag acggcatacg agatgtccta aggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 133
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 133
caagcagaag acggcatacg agataacgtg gagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 134
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 134
caagcagaag acggcatacg agatctgtgt tggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 135
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 135
caagcagaag acggcatacg agatgttaag gcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 136
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 136
caagcagaag acggcatacg agatcacctt acgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 137
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 137
caagcagaag acggcatacg agattggtag ctgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 138

<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 138
caagcagaag acggcatacg agatcagtga aggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 139
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 139
caagcagaag acggcatacg agatgttcaa ccgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 140
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 140
caagcagaag acggcatacg agattggcta tcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 141
<211> 66
<212> DNA

<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 141
caagcagaag acggcatacg agatctggag tagtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 142
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 142
caagcagaag acggcatacg agattctctt ccgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 143
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 143
caagcagaag acggcatacg agattctaac gcgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 144
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 144
caagcagaag acggcatacg agatggtcag atgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 145
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 145
caagcagaag acggcatacg agatctctgg ttgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 146
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 146
caagcagaag acggcatacg agattgtggt acgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 147
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 147
caagcagaag acggcatacg agatcctata ccgtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 148
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 148
caagcagaag acggcatacg agatttctct cggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 149
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 149
caagcagaag acggcatacg agatgtatgc tggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 150
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 150

caagcagaag acggcatacg agataagtcg aggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 151
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 151
caagcagaag acggcatacg agataaccga aggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 152
<211> 66
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer

<400> 152
caagcagaag acggcatacg agattgttgt gggtgactgg agttcagacg tgtgctcttc 60

cgatct 66

<210> 153
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> P7 universal primer

<400> 153
caagcagaag acggcatacg a 21

<210> 154
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> P5 universal primer

<400> 154
aatgatacgg cgaccaccga 20

<210> 155
<211> 70
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i501 Primer

<400> 155
aatgatacgg cgaccaccga gatctacact atagcctaca ctctttccct acacgacgct 60

cttccgatct 70

<210> 156
<211> 70
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i502 Primer

<400> 156
aatgatacgg cgaccaccga gatctacaca tagaggcaca ctctttccct acacgacgct 60

cttccgatct 70

<210> 157
<211> 70
<212> DNA

<213> Artificial Sequence

<220>
<223> NEBNext i503 Primer

<400> 157
aatgatacgg cgaccaccga gatctacacc ctatcctaca ctctttccct acacgacgct 60

cttccgatct 70

<210> 158
<211> 70
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i504 Primer

<400> 158
aatgatacgg cgaccaccga gatctacacg gctctgaaca ctctttccct acacgacgct 60

cttccgatct 70

<210> 159
<211> 70
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i505 Primer

<400> 159
aatgatacgg cgaccaccga gatctacaca ggcgaagaca ctctttccct acacgacgct 60

cttccgatct 70

<210> 160
<211> 70
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i506 Primer

<400> 160
aatgatacgg cgaccaccga gatctacact aatcttaaca ctctttccct acacgacgct 60

cttccgatct 70

<210> 161
<211> 70
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i507 Primer

<400> 161
aatgatacgg cgaccaccga gatctacacc aggacgtaca ctctttccct acacgacgct 60

cttccgatct 70

<210> 162
<211> 70
<212> DNA
<213> Artificial Sequence

<220>
<223> NEBNext i508 Primer

<400> 162
aatgatacgg cgaccaccga gatctacacg tactgacaca ctctttccct acacgacgct 60

cttccgatct 70

<210> 163
<211> 100
<212> DNA
<213> Artificial Sequence

<220>
<223> UMI14_i701

<220>
<221> misc_feature
<222> (65)..(78)
<223> n is a, c, g, or t

<400> 163
caagcagaag acggcatacg agatcgtgat gtgactggag ttcagacgtg tgctcttccg 60

atctnnnnnn nnnnnnnnaa cggacaggat gcagcaaaat 100

<210> 164
<211> 100
<212> DNA
<213> Artificial Sequence

<220>
<223> UMI14_i702

<220>
<221> misc_feature
<222> (65)..(78)
<223> n is a, c, g, or t

<400> 164
caagcagaag acggcatacg agatacatcg gtgactggag ttcagacgtg tgctcttccg 60

atctnnnnnn nnnnnnnnaa cggacaggat gcagcaaaat 100

<210> 165
<211> 100
<212> DNA
<213> Artificial Sequence

<220>
<223> UMI14_i703

<220>
<221> misc_feature

<222> (65)..(78)
<223> n is a, c, g, or t

<400> 165
caagcagaag acggcatacg agatgcctaa gtgactggag ttcagacgtg tgctcttccg 60

atctnnnnnn nnnnnnnnaa cggacaggat gcagcaaaat 100

<210> 166
<211> 100
<212> DNA
<213> Artificial Sequence

<220>
<223> UMI14_i704

<220>
<221> misc_feature
<222> (65)..(78)
<223> n is a, c, g, or t

<400> 166
caagcagaag acggcatacg agattggtca gtgactggag ttcagacgtg tgctcttccg 60

atctnnnnnn nnnnnnnnaa cggacaggat gcagcaaaat 100

<210> 167
<211> 100
<212> DNA
<213> Artificial Sequence

<220>
<223> UMI14_i705

<220>
<221> misc_feature
<222> (65)..(78)
<223> n is a, c, g, or t

<400> 167

caagcagaag acggcatacg agatcactgt gtgactggag ttcagacgtg tgctcttccg 60

atctnnnnnn nnnnnnnnaa cggacaggat gcagcaaaat 100

<210> 168
<211> 100
<212> DNA
<213> Artificial Sequence

<220>
<223> UMI14_i706

<220>
<221> misc_feature
<222> (65)..(78)
<223> n is a, c, g, or t

<400> 168
caagcagaag acggcatacg agatattggc gtgactggag ttcagacgtg tgctcttccg 60

atctnnnnnn nnnnnnnnaa cggacaggat gcagcaaaat 100

<210> 169
<211> 100
<212> DNA
<213> Artificial Sequence

<220>
<223> UMI14_i707

<220>
<221> misc_feature
<222> (65)..(78)
<223> n is a, c, g, or t

<400> 169
caagcagaag acggcatacg agatgatctg gtgactggag ttcagacgtg tgctcttccg 60

atctnnnnnn nnnnnnnnaa cggacaggat gcagcaaaat 100

<210> 170
<211> 100
<212> DNA
<213> Artificial Sequence

<220>
<223> UMI14_i708

<220>
<221> misc_feature
<222> (65)..(78)
<223> n is a, c, g, or t

<400> 170
caagcagaag acggcatacg agattcaagt gtgactggag ttcagacgtg tgctcttccg 60

atctnnnnnn nnnnnnnnaa cggacaggat gcagcaaaat 100

<210> 171
<211> 100
<212> DNA
<213> Artificial Sequence

<220>
<223> UMI14_i709

<220>
<221> misc_feature
<222> (65)..(78)
<223> n is a, c, g, or t

<400> 171
caagcagaag acggcatacg agatctgatc gtgactggag ttcagacgtg tgctcttccg 60

atctnnnnnn nnnnnnnnaa cggacaggat gcagcaaaat 100

<210> 172
<211> 100
<212> DNA

<213> Artificial Sequence

<220>
<223> UMI14_i710

<220>
<221> misc_feature
<222> (65)..(78)
<223> n is a, c, g, or t

<400> 172
caagcagaag acggcatacg agataagcta gtgactggag ttcagacgtg tgctcttccg 60

atctnnnnnn nnnnnnnnaa cggacaggat gcagcaaaat 100

<210> 173
<211> 100
<212> DNA
<213> Artificial Sequence

<220>
<223> UMI14_i711

<220>
<221> misc_feature
<222> (65)..(78)
<223> n is a, c, g, or t

<400> 173
caagcagaag acggcatacg agatgtagcc gtgactggag ttcagacgtg tgctcttccg 60

atctnnnnnn nnnnnnnnaa cggacaggat gcagcaaaat 100

<210> 174
<211> 100
<212> DNA
<213> Artificial Sequence

<220>
<223> UMI14_i712

<220>
<221> misc_feature
<222> (65)..(78)
<223> n is a, c, g, or t

<400> 174
caagcagaag acggcatacg agattacaag gtgactggag ttcagacgtg tgctcttccg 60

atctnnnnnn nnnnnnnnaa cggacaggat gcagcaaaat 100