

SEQUENCE LISTING

<110> LUCENCE LIFE SCIENCES PTE. LTD.

<120> METHOD FOR DETECTION AND QUANTIFICATION OF GENETIC ALTERATIONS

<130> 36425SG22

<150> 10201805450Y

<151> 2018-06-25

<160> 28

<170> PatentIn version 3.5

<210> 1

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> barcode sequence

<220>

<221> misc_feature

<222> (1)..(10)

<223> n is a, c, g, or t

<400> 1

nnnnnnnnnnnn

10

<210> 2

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> an example of the barcode sequence

<400> 2

cattacatac

10

<210> 3

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> an exemple of the barcode sequence

<400> 3

gcgtggacaa 10

<210> 4
 <211> 10
 <212> DNA
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<220>
 <223> an example of the barcode sequence

<400> 4
 tttttagaca 10

<210> 5
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> an example of the barcode sequence

<400> 5
 taagaggtcc 10

<210> 6
 <211> 52
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> an example of a "primer" when the target sequence is EGFR-exon 18
 1 (an example of primer A, illustrated in Figure 1a)

<220>
 <221> misc_feature
 <222> (21)..(30)
 <223> n is a, c, g, or t

<400> 6
 acacgacgct cttccgatct nnnnnnnnnn ggtgaccctt gtctctgtgt tc 52

<210> 7
 <211> 43
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> an example of subsequent primers for the "completion of amplicon"
 (an example of primer C, illustrated in Figure 1c)

<400> 7
gacgtgtgct cttccgatct gagcccagca ctttgatctt ttt 43

<210> 8
<211> 178
<212> DNA
<213> Artificial Sequence

<220>
<223> one example of expected amplicon (only target-specific region)

<400> 8
ggtgaccctt gtctctgtgt tcgagcccag cactttgatc tttttggtga cccttgtctc 60
tgtgttcttg tcccccccag cttgtggagc ctcttacacc cagtggagaa gctcccaacc 120
aagctctctt gaggatcttg aaggaaactg aattcaaaaa gatcaaagtg ctgggctc 178

<210> 9
<211> 183
<212> DNA
<213> Artificial Sequence

<220>
<223> an example of the product after amplicon completion (in two steps) (only one strand of the double stranded product is shown)

<220>
<221> misc_feature
<222> (21)..(30)
<223> n is a, c, g, or t

<400> 9
acacgacgct cttccgatct nnnnnnnnnn ggtgaccctt gtctctgtgt tcttgtcccc 60
cccagcttgt ggagcctctt acaccagtg gagaagctcc caaccaagct ctcttgagga 120
tcttgaagga aactgaattc aaaaagatca aagtgctggg ctcagatcgg aagagcacac 180
gtc 183

<210> 10
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Universal amplification primer 1 (an example of the primer for amplifying product C or D)

<400> 10
aatgatacgg cgaccaccga gatctacact ctttcctac acgacgtct tccgatct 58

<210> 11
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Universal amplification primer 2 (indexed) (an example of the primer for amplifying product C or D, the index is the bases in bold and italic font)

<400> 11
caagcagaag acggcatacg agatatcacg gtgactggag ttcagacgtg tgctcttccg 60
atct 64

<210> 12
<211> 265
<212> DNA
<213> Artificial Sequence

<220>
<223> an example of the final product (suitable for sequencing on Illumina)

<220>
<221> misc_feature
<222> (59)..(68)
<223> n is a, c, g, or t

<400> 12
aatgatacgg cgaccaccga gatctacact ctttcctac acgacgtct tccgatctnn 60
nnnnnnnnngg tgacccttgt ctctgtgttc ttgtcccccc cagcttgtgg agcctcttac 120
accagtgga gaagctccca accaagctct cttgaggatc ttgaaggaaa ctgaattcaa 180
aaagatcaaa gtgctgggct cagatcggaa gagcacacgt ctgaactcca gtcaccgtga 240
tatctcgtat gccgtcttct gcttg 265

<210> 13
<211> 25
<212> DNA
<213> Artificial Sequence

<220>

<223> a universal P5 adapter

<400> 13
aatgatacgg cgaccaccga gatct 25

<210> 14
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> an indexed P7 adapter

<400> 14
caagcagaag acggcatacg agat 24

<210> 15
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of P7 adapter and sample index, P7 adapter R-ID1

<400> 15
caagcagaag acggcatacg agatcacg gtgactggag ttcagacgtg tgctcttccg 60
atct 64

<210> 16
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of P7 adapter and sample index, P7 adapter R-ID2

<400> 16
caagcagaag acggcatacg agatcgatgt gtgactggag ttcagacgtg tgctcttccg 60
atct 64

<210> 17
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of P7 adapter and sample index, P7 adapter R-ID3

<400> 17
caagcagaag acggcatacg agatttaggc gtgactggag ttcagacgtg tgctcttccg 60
atct 64

<210> 18
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of P7 adapter and sample index, P7 adapter R-ID4

<400> 18
caagcagaag acggcatacg agattgacca gtgactggag ttcagacgtg tgctcttccg 60
atct 64

<210> 19
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of P7 adapter and sample index, P7 adapter R-ID5

<400> 19
caagcagaag acggcatacg agatacagtg gtgactggag ttcagacgtg tgctcttccg 60
atct 64

<210> 20
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of P7 adapter and sample index, P7 adapter R-ID6

<400> 20
caagcagaag acggcatacg agatgccaat gtgactggag ttcagacgtg tgctcttccg 60
atct 64

<210> 21
<211> 64
<212> DNA
<213> Artificial Sequence

<220>

<223> sequence of P7 adapter and sample index, P7 adapter R-ID7

<400> 21
caagcagaag acggcatacg agatcagatc gtgactggag ttcagacgtg tgctcttccg 60
atct 64

<210> 22
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of P7 adapter and sample index, P7 adapter R-ID8

<400> 22
caagcagaag acggcatacg agatacttga gtgactggag ttcagacgtg tgctcttccg 60
atct 64

<210> 23
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of P7 adapter and sample index, P7 adapter R-ID9

<400> 23
caagcagaag acggcatacg agatgatcag gtgactggag ttcagacgtg tgctcttccg 60
atct 64

<210> 24
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of P7 adapter and sample index, P7 adapter R-ID10

<400> 24
caagcagaag acggcatacg agattagctt gtgactggag ttcagacgtg tgctcttccg 60
atct 64

<210> 25
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
 <223> sequence of P7 adapter and sample index, P7 adapter R-ID11

<400> 25
 caagcagaag acggcatacg agatggctac gtgactggag ttcagacgtg tgctcttccg 60
 atct 64

<210> 26
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> sequence of P7 adapter and sample index, P7 adapter R-ID12

<400> 26
 caagcagaag acggcatacg agatcttgta gtgactggag ttcagacgtg tgctcttccg 60
 atct 64

<210> 27
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 27
 caagcagaag acggcatacg agatagtcaa gtgactggag ttcagacgtg tgctcttccg 60
 atct 64

<210> 28
 <211> 64
 <212> DNA
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<220>
 <223> sequence of P7 adapter and sample index, P7 adapter R-ID14

<400> 28
 caagcagaag acggcatacg agatagttcc gtgactggag ttcagacgtg tgctcttccg 60
 atct 64