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May 24, 2012

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We are providing this letter in response to your request for nucleotide sequence information about oligonucleotides used in Illumina's sequencing technologies. As explained below, this letter and its contents are provided to you so you may understand and publish the results of your sequencing experiments.

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This letter is updated periodically to reflect Illumina's current products, so please contact us for the most current version, or if you have any other questions.

Sincerely yours,

Customer Solutions 858-202-4566

Nextera® DNA Sample Preparation Kit (Illumina) 1,2

Nextera® transposase sequences (FC-121-1031, FC-121-1030)

- 5' TCGTCGGCAGCGTCAGATGTGTATAAGAGACAG
 - (a) Read 1 \rightarrow
- 5' GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG
 - (d) Read 2 -->

Nextera® Index Kit- PCR primers (FC-121-1012, FC-121-1011)

- 5' AATGATACGGCGACCACCGAGATCTACAC[<u>i5</u>]TCGTCGGCAGCGTC (c) i5 Index read -->

i5 bases in adapter TAGATCGC	i5 index name N501	i5 bases for entry on sample sheet TAGATCGC
CTCTCTAT	N502	CTCTCTAT
TATCCTCT	N503	TATCCTCT
AGAGTAGA	N504	AGAGTAGA
GTAAGGAG	N505	GTAAGGAG
ACTGCATA	N506	ACTGCATA
AAGGAGTA	N507	AAGGAGTA
CTAAGCCT	N508	CTAAGCCT

i7 index name	i7 bases for entry on sample sheet
N701	TAAGGCGA
N702	CGTACTAG
N703	AGGCAGAA
N704	TCCTGAGC
N705	GGACTCCT
N706	TAGGCATG
N707	CTCTCTAC
N708	CAGAGAGG
N709	GCTACGCT
N710	CGAGGCTG
N711	AAGAGGCA
N712	GTAGAGGA
	N701 N702 N703 N704 N705 N706 N707 N708 N709 N710

¹ Provided in reagents and used in methods protected by U.S. Patents 5,965,443; 6,437,109; and patents pending.

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i7

² Used in the methods of U.S. Patents 8,053,192 and 8,182,989.

Nextera® DNA Sample Prep Kit (Epicentre Biotechnologies) 1,2,3

Transposon Sequences

- 5'-GCCTCCCTCGCGCCATCAGAGATGTGTATAAGAGACAG
- 5'-GCCTTGCCAGCCCGCTCAGAGATGTGTATAAGAGACAG

Adapters (showing optional bar code)

- 5'-AATGATACGGCGACCACCGAGATCTACACGCCTCCCTCGCGCCATCAG
- 5'-CAAGCAGAAGACGGCATACGAGAT[barcode]CGGTCTGCCTTGCCAGCCCGCTCAG-3'

PCR Primers

- 5'-AATGATACGGCGACCACCGA
- 5'-CAAGCAGAAGACGGCATACGA

<u>TruSeq® Custom Amplicon</u> (codes for entry on sample sheet) ^{2,4}

i5 index	i5 code
A501	TGAACCTT
A502	TGCTAAGT
A503	TGTTCTCT
A504	TAAGACAC
A505	CTAATCGA
A506	CTAGAACA
A507	TAAGTTCC
A508	TAGACCTA

i7 code
ATCACGAC
ACAGTGGT
CAGATCCA
ACAAACGG
ACCCAGCA
AACCCCTC
CCCAACCT
CACCACAC
GAAACCCA
TGTGACCA
AGGGTCAA
AGGAGTGG

³ These kits are no longer available for purchase. As a replacement, we recommend FC-121-1031

⁴ Patent pending.

-TruSeq® RNA and DNA Sample Prep Kits (v1 and v2) 2,5

TruSeq Universal Adapter

5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

TruSeq Adapter, Index 1⁵

- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACATCACGATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 2
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACCGATGTATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 3
- 5' Gatcggaagagcacacgtctgaactccagtcac $\underline{\text{ttaggc}}$ atctcgtatgccgtcttctgcttg \mathbf{TruSeq} $\mathbf{Adapter}$, \mathbf{Index} $\mathbf{4}$
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCAC<u>TGACCA</u>ATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 5
- 5' GATCGGAAGACCACACTCTGAACTCCAGTCACACAGTGATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 6
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 7
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACCAGATCATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 8
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACACTTGAATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 9
- 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGATCAGATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 10
- 5' GATCGGAAGAGCACGTCTGAACTCCAGTCAC<u>TAGCTT</u>ATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 11
- 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGGCTACATCTCGTATGCCGTCTTCTGCTTG
- TruSeq Adapter, Index 12
 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTG
- TruSeq Adapter, Index 13
 5' GATCGGAAGAGCACGTCTGAACTCCAGTCACAGTCAACAATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 14
- 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGTTCCGTATCTCGTATGCCGTCTTCTGCTTG

 TruSeq Adapter, Index 15
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACATGTCAGAATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 16
- 5^\prime Gatcggaagagcacacgtctgaactccagtcac<u>ccgtcc</u>cgatctcgtatgccgtcttctgcttg TruSeq Adapter, Index 18 6
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACGTCCGCACATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 19
- $5' \quad \text{GATCGGA} \\ \text{GAGCACCACCTCTGAACTCCAGTCAC} \\ \text{CGATCTCGTATGCCGTCTTCTGCTTG} \\ \textbf{TruSeq Adapter, Index 20}$
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACGTGGCCTTATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 21
- 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTTTCGGAATCTCGTATGCCGTCTTCTGCTTG

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⁵ Index sequences are 6 bases as underlined. Please enter only these 6 bases on the sample sheet.

⁶ Index numbers 17, 24, and 26 are reserved.

TruSeq Adapter, Index 22

- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACCGTACGTAATCTCGTATGCCGTCTTCTGCTTG
 TruSea Adapter. Index 23
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACGAGTGGATATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 25
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACACTGATATATCTCGTATGCCGTCTTCTGCTTG
 TruSeq Adapter, Index 27
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACATTCCTTTATCTCGTATGCCGTCTTCTGCTTG

Oligonucleotide sequences for TruSeq® Small RNA Sample Prep Kit

RNA 5' Adapter (RA5), part # 15013205

5' GUUCAGAGUUCUACAGUCCGACGAUC

RNA 3' Adapter (RA3), part # 15013207

5' TGGAATTCTCGGGTGCCAAGG

Stop Oligo (STP) ⁷

5' GAAUUCCACCACGUUCCCGUGG

RNA RT Primer (RTP), part # 15013981

5' GCCTTGGCACCCGAGAATTCCA

RNA PCR Primer (RP1), part # 15005505

5' AATGATACGGCGACCACCGAGATCTACACGTTCAGAGTTCTACAGTCCGA

RNA PCR Primer, Index 1 (RPI1) ^{2,8}

- 5' CAAGCAGAAGACGGCATACGAGATCGTGATGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 2 (RPI2)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>ACATCG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 3 (RPI3)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>GCCTAA</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 4 (RPI4)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>TGGTCA</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 5 (RPI5)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>CACTGT</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 6 (RPI6)
- 5' CAAGCAGAAGACGGCATACGAGATATTGGCGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 7 (RPI7)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>GATCTG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 8 (RPI8)
- 5' CAAGCAGAAGACGGCATACGAGATTCAAGTGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

⁷ Patent pending.

⁸ Index sequence is 6 bases as underlined; please enter only these 6 bases on the sample sheet. Please note the index sequence is read in the reverse complement in TruSeq small RNA libraries.

RNA PCR Primer, Index 9 (RPI9)

- 5' CAAGCAGAAGACGGCATACGAGATCTGATCGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 10 (RPI10)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>AAGCTA</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
 RNA PCR Primer, Index 11 (RPI11)
- 5' CAAGCAGAAGACGGCATACGAGATGTAGCCGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 12 (RPI12)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>TACAAG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
 RNA PCR Primer, Index 13 (RPI13)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>TTGACT</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
 RNA PCR Primer, Index 14 (RPI14)
- 5' CAAGCAGAAGACGGCATACGAGATGGGAACTGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 15 (RPI15)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>TGACAT</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
 RNA PCR Primer, Index 16 (RPI16)
- 5' CAAGCAGAAGACGGCATACGAGATGGACGGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 17 (RPI17)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>CTCTAC</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
 RNA PCR Primer, Index 18 (RPI18)
- 5' CAAGCAGAAGACGGCATACGAGATGCGGACGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 19 (RPI19)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>TTTCAC</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 20 (RPI20)
- 5' CAAGCAGAAGACGGCATACGAGATGGCCACGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 21 (RPI21)
- 5' CAAGCAGAAGACGCATACGAGAT<u>CGAAAC</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 22 (RPI22)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>CGTACG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
 RNA PCR Primer, Index 23 (RPI23)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>CCACTC</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 24 (RPI24)
- 5' CAAGCAGAAGACGGCATACGAGATGCTACCGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 25 (RPI25)
- 5' CAAGCAGAAGACGGCATACGAGATATCAGTGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 26 (RPI26)
- 5' CAAGCAGAAGACGGCATACGAGATGCTCATGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 27 (RPI27)
- 5' CAAGCAGAAGACGGCATACGAGATAGGAATGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 28 (RPI28)
- 5' CAAGCAGAAGACGGCATACGAGATCTTTTGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 29 (RPI29)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>TAGTTG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
 RNA PCR Primer, Index 30 (RPI30)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>CCGGTG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 31 (RPI31)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>ATCGTG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 32 (RPI32)
- 5' CAAGCAGAAGACGGCATACGAGATTGAGTGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 33 (RPI33)

- 5' CAAGCAGAAGACGGCATACGAGAT<u>CGCCTG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
 RNA PCR Primer, Index 34 (RPI34)
- 5' CAAGCAGAAGACGGCATACGAGATGCCATGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 35 (RPI35)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>AAAATG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
 RNA PCR Primer, Index 36 (RPI36)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>TGTTGG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
 RNA PCR Primer, Index 37 (RPI37)
- 5' CAAGCAGAAGACGGCATACGAGATATTCCGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer. Index 38 (RPI38)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>AGCTAG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 39 (RPI39)
- 5' CAAGCAGAAGACGGCATACGAGATGTATAGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 40 (RPI40)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>TCTGAG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 41 (RPI41)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>GTCGTC</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 42 (RPI42)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>CGATTA</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 43 (RPI43)
- 5' CAAGCAGAAGACGGCATACGAGATGCTGTAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 44 (RPI44)
- 5' CAAGCAGAAGACGCATACGAGAT<u>ATTATA</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
- RNA PCR Primer, Index 45 (RPI45)
 5' CAAGCAGAAGACGCATACGAGATGAATGAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
- RNA PCR Primer, Index 46 (RPI46)
 5' CAAGCAGAAGACGCCATACGAGATTCCGGGAGTTCCTTGGCACCCGAGAATTCCA
 RNA PCR Primer, Index 47 (RPI47)
- 5' CAAGCAGAAGACGCATACGAGATCTTCGAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
 RNA PCR Primer, Index 48 (RPI48)
- 5' CAAGCAGAAGACGCCATACGAGATTGCCGAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

Oligonucleotide sequences for Genomic DNA

Adapters

- 5' P-GATCGGAAGAGCTCGTATGCCGTCTTCTGCTTG
- 5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

PCR Primers

- 5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT
- 5' CAAGCAGAAGACGGCATACGAGCTCTTCCGATCT

Genomic DNA Sequencing Primer

5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

Paired End DNA oligonucleotide sequences

PE Adapters

- 5' P-GATCGGAAGAGCGGTTCAGCAGGAATGCCGAG
- 5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

PE PCR Primer 1.0

5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

PE PCR Primer 2.0

5' CAAGCAGAAGACGGCATACGAGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCT

PE Read 1 Sequencing Primer

5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

PE Read 2 Sequencing Primer

5' CGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCT

Oligonucleotide sequences for the Multiplexing Sample Prep Oligo Only Kit²

Multiplexing Adapters

- 5' P-GATCGGAAGAGCACACGTCT
- 5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

Multiplexing PCR Primer 1.0

5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

Multiplexing PCR Primer 2.0

5' GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT

Multiplexing Read 1 Sequencing Primer

5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

Multiplexing Index Read Sequencing Primer

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCAC

Multiplexing Read 2 Sequencing Primer

5' GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT

PCR Primer, Index 1

5' CAAGCAGAAGACGGCATACGAGATCGTGATGTGACTGGAGTTC

PCR Primer, Index 2

5' CAAGCAGAAGACGGCATACGAGATACATCGGTGACTGGAGTTC

PCR Primer, Index 3

5' CAAGCAGAAGACGGCATACGAGATGCCTAAGTGACTGGAGTTC

PCR Primer, Index 4

5' CAAGCAGAAGACGGCATACGAGATTGGTCAGTGACTGGAGTTC

PCR Primer, Index 5

5' CAAGCAGAAGACGGCATACGAGATCACTGTGTGACTGGAGTTC

PCR Primer, Index 6

5' CAAGCAGAAGACGGCATACGAGATATTGGCGTGACTGGAGTTC

PCR Primer, Index 7

5' CAAGCAGAAGACGGCATACGAGATGATCTGGTGACTGGAGTTC

PCR Primer, Index 8

5' CAAGCAGAAGACGGCATACGAGATTCAAGTGTGACTGGAGTTC

PCR Primer, Index 9

5' CAAGCAGAAGACGGCATACGAGATCTGATCGTGACTGGAGTTC

PCR Primer, Index 10

5' CAAGCAGAAGACGGCATACGAGATAAGCTAGTGACTGGAGTTC

PCR Primer, Index 11

5' CAAGCAGAAGACGGCATACGAGATGTAGCCGTGACTGGAGTTC

PCR Primer, Index 12

5' CAAGCAGAAGACGGCATACGAGATTACAAGGTGACTGGAGTTC

Oligonucleotide sequences for the v1 and v1.5 Small RNA Kits

RT Primer

5' CAAGCAGAAGACGGCATACGA

5' RNA Adapter

5' GUUCAGAGUUCUACAGUCCGACGAUC

3' RNA Adapter

5' P-UCGUAUGCCGUCUUCUGCUUGUidT

v1.5 Small RNA 3' Adapter

5' /5rApp/ATCTCGTATGCCGTCTTCTGCTTG/3ddC/

Small RNA PCR Primer 1

5' CAAGCAGAAGACGGCATACGA

Small RNA PCR Primer 2

5' AATGATACGGCGACCACCGACAGGTTCAGAGTTCTACAGTCCGA

Small RNA Sequencing Primer

5' CGACAGGTTCAGAGTTCTACAGTCCGACGATC

Appendix: Process Controls for TruSeq® RNA, DNA (v1 and v2) and Exome Products 9

CTE2 - 150bp

ATCCTGCAGATGCATCCAGTACTATGGCCCGGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATA ACCCTTTAAGAGTTGCTCTTTTTGTTTGGTAAGTTGCAAATCGAAGTTTTAGATTGAGTTCTACGTCGAG CGGCCGCGAT

CTE2 - 250bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGTGCTTTTGAACCTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGCTAGAAGATGGAGGTATGCAGCCCGTTAGTAGGAGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCGGCCGCGAT

CTE2 - 350bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCTAGAGACCATTCGCGATTCCATGAGACT CCAAGGGTTCTGCACAACTTATGCACCTCTATTAGATCATTGTGTTCTACGAAGCCTGGACTGCATTACA TATTCACAACCAACATGAGAAGAGCGGAATAGATGGCCGGATGTTTGGTGGCTTTGATATATTGTGAGGA GCATTGCGAACCCTAGAGCTGTCCGGTCAAATAACCCCCTCACAATAAGTGTAATGTCATGGGATAATCA AAAGACTAAGGGAGGGCTTTTATAGAAGGCGTGAGGTCATGCTATCCCCCTCTGAAGACGCGGCCGCGAT

CTE2 - 450bp

CTE2 - 550bp

CTE2 - 650bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCGCTCGCACTTAGCCTGTTAAGGGGTTCG
CGCTCGTCTAGTCTGTGCTGTTGCCTGGATAGTAAATTATCATGGTACAAACTTTTAAGAGCCAGTTAAA
TGGAGATGGATTTAAAAAGAGTTATTGTAAAGTCTCCCCAGGTGTGCATTAAAATATCCCAACAGATTGC
CCTGGCCTGACCCCCTAAATGCAATTTTGGGATTCCCTTTTAGTTGCTTTCATTAAAATGTACCAGCGCA
GTAAAAAAAGCACAAAGTATATTGTTTATGTAACTCACTATCTCATTTGCACTGGTTACATGGCAGCTTC
AGACTGACTAAAACTACACTTTTCCCACCATGGTTCAAAGATCAACAGAACTGGGCCAACAAAAGCAATT
TTTTCATGTGGTCTAACTACCAACTTATTATGAGTTAAGTTACTTTTAGGTTTAAAATCACAGCAGTTTT
TCCCTCCACACCTCCCAGAGATACTTTCAGGGTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTG
TTTCTTTATGGTGCTTGTGTCCTGACAACCGCGTAAGGCATGGAAATTCAGCTATTTATCCGATCGTTTA
TATGGGCGTGCGGCCGCGAT

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⁹ Patent pending

CTE2 - 750bp

CTE2 - 850bp

CTE1 - 123bp

CTE1 - 223bp

GATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGTGCTT
TTGAACCTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACCCTGCTAGAAGATGGAGG
TATGCAGCCCGTTAGTAGGAGGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCGGCCGC
GATATCCTGCAGATGCA

CTE1 - 323bp

CTE1 - 423bp

CTE1 - 523bp

CTE1 - 623bp

CTE1 - 723bp

CTE1 - 823bp

CTA - 150bp

 $\label{eq:ggggatcctacgttccaaatgcagcgagctcgtataaccctttaagagttgctctttttggtaagttgcaaatcgaagttttagattgagttctacgtcgagcggccgcgatatcctgcagatgcatccagtactagtatggccc$

CTA - 250bp

GGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGT GCTTTTGAACCTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGCTAGAAGATG GAGGTATGCAGCCCGTTAGTAGGAGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCGG CCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

CTA - 350bp

CTA - 450bp

CTA - 550bp

CTA - 650bp

CTA - 750bp

CTA - 850bp

CTL - 150bp

AGTATGGCCCGGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCTTTAAGAGTTGCTCTTTTT GTTTGGTAAGTTGCAAATCGAAGTTTTAGATTGAGTTCTACGTCGAGCGGCCGCGATATCCTGCAGATGC ATCCAGTACA

CTL - 250bp

AGTATGGCCCGGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTT GCCCATCAGTGCTTTTGAACCTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACCCTG CTAGAAGATGGAGGTATGCAGCCCGTTAGTAGGAGGTAATACTACCCAGCTTATAACCCTCAAACGTAGGG CAGATGGCGGCCGCGATATCCTGCAGATGCATCCAGTACA

CTL - 350bp

CTL - 450bp

CTL - 550bp

CTL - 650bp

CTL - 750bp

CTL - 850bp