

Illumina, Inc. 5200 Illumina Way San Diego, CA 92122 USA tel 858.202.4500 fax 858.202.4545 www.illumina.com

September 7, 2012

Dear Customer,

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.

Most of Illumina's oligonucleotides are specially modified and purified in a proprietary manner to enable and optimize their performance with Illumina instruments. The oligonucleotides described in this letter are available directly from Illumina, which is the only authorized supplier of the oligos. Illumina has no control over the quality, composition, or compatibility of reagents from non-authorized suppliers. We cannot troubleshoot or provide other support for experiments performed with non-authorized reagents, and we cannot guarantee the performance of Illumina products when used with such reagents.

The oligonucleotides described in this letter are proprietary to Illumina, and their manufacture, use, and sequence information are protected by intellectual property, including issued or pending patents, copyright, and trade secrets. Illumina reserves all rights in the oligonucleotides and their sequence information, except for the strictly limited permissions as follows.

# Limited permission to copy or distribute sequence information

You are permitted to copy and distribute this letter within your institution, but only for use with Illumina's instruments (including the Genome Analyzer™, HiSeq®, HiScan®, and MiSeq® instruments) and their associated equipment, reagents, kits, and software ("Illumina products"). You may not copy or distribute this letter or its information outside your institution, or where it will be accessible outside your institution, except as provided below.

For individual sequences contained in this letter, Illumina grants you the limited permission to distribute the sequence information outside your institution or to publish the sequence information in presentations, manuscripts, or publications authored by you, as long as it is accompanied by the following copyright notice:

Oligonucleotide sequences © 2007-2012 Illumina, Inc. All rights reserved.

If you modify or adapt any sequence information contained in this letter and distribute or publish the modified sequences, it must be accompanied by the following copyright notice:

Oligonucleotide sequences © 2007-2012 Illumina, Inc. All rights reserved. Derivative works created by Illumina customers are authorized for use with Illumina instruments and products only. All other uses are strictly prohibited.

For all other uses of the sequence information in this letter, or for questions on custom oligonucleotides, please contact Illumina to discuss the permissions or licenses that may be required.

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 -->

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

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

# Nextera® codes for entry on sample sheet:

i5 bases in adapter <u>TAGATCGC</u>	Nextera DNA i5 index name N501	Nextera XT i5 index name S501	Nextera Enrichment i5 index name E501	i5 bases for entry on sample sheet TAGATCGC
CTCTCTAT	N502	S502	E502	CTCTCTAT
TATCCTCT	N503	S503	E503	TATCCTCT
AGAGTAGA	N504	S504	E504	AGAGTAGA
GTAAGGAG	N505	S505	E505	GTAAGGAG
ACTGCATA	N506	S506	E506	ACTGCATA
AAGGAGTA	N507	S507	E507	AAGGAGTA
CTAAGCCT	N508	S508	E508	CTAAGCCT

	Nextera				
i7 bases in adapter TCGCCTTA	Nextera DNA i7 index name N701	Nextera XT i7 index name N701	Enrichment i7 index name N701	i7 bases for entry on sample sheet TAAGGCGA	
CTAGTACG	N702	N702	N702	CGTACTAG	
TTCTGCCT	N703	N703	N703	AGGCAGAA	
GCTCAGGA	N704	N704	N704	TCCTGAGC	
AGGAGTCC	N705	N705	N705	GGACTCCT	
CATGCCTA	N706	N706	N706	TAGGCATG	
GTAGAGAG	N707	N707	N707	CTCTCTAC	
CCTCTCTG	N708	N708	N708	CAGAGAGG	

<sup>&</sup>lt;sup>1</sup> Provided in reagents and used in methods protected by U.S. Patents 5,965,443; 6,437,109; and patents pending.

<sup>&</sup>lt;sup>2</sup> Used in the methods of U.S. Patent 8,053,192 and 8,182,989.

AGCGTAGC	N709	N709	N709	GCTACGCT
CAGCCTCG	N710	N710	N710	CGAGGCTG
TGCCTCTT	N711	N711	N711	AAGAGGCA
TCCTCTAC	N712	N712	N712	GTAGAGGA

# <u>TruSeq® Custom Amplicon or TruSeq® Amplicon – Cancer Panel</u> (codes for entry on sample sheet) <sup>2,3</sup>

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

i7 index	i7 code
A701	ATCACGAC
A702	ACAGTGGT
A703	CAGATCCA
A704	ACAAACGG
A705	ACCCAGCA
A706	AACCCCTC
A707	CCCAACCT
A708	CACCACAC
A709	GAAACCCA
A710	TGTGACCA
A711	AGGGTCAA
A712	AGGAGTGG

<sup>3</sup> Patent pending.

# TruSeq® DNA HT and RNA HT Sample Prep Kits 2,4,5

# D501-D508 adapters

 $\texttt{AATGATACGGCG$\bar{\texttt{A}}$CCACCGAGATCTACAC} \ [ \underline{\textbf{i5}} ] \ \texttt{ACACTCTTTCCCTACACGACGCTCTTCCGATCT}$ 

# **D701–D712 adapters**

GATCGGAAGAGCÂCACGTCTGAACTCCAGTCAC[i7]ATCTCGTATGCCGTCTTCTGCTTG

i5 bases in D5xx adapter and
for entry on sample sheet
TATAGCCT
ATAGAGGC
CCTATCCT
GGCTCTGA
AGGCGAAG
TAATCTTA
CAGGACGT
GTACTGAC

	i7 bases in D7xx adapter and
i7 index	for entry on sample sheet
D701	ATTACTCG
D702	TCCGGAGA
D703	CGCTCATT
D704	GAGATTCC
D705	ATTCAGAA
D706	GAATTCGT
D707	CTGAAGCT
D708	TAATGCGC
D709	CGGCTATG
D710	TCCGCGAA
D711	TCTCGCGC
D712	AGCGATAG

For TruSeq process control sequences, see Appendix.
 Used in the methods of U.S. Patent 7,741,953.

# TruSeq® DNA v1/v2/LT and RNA v1/v2/LT and ChIP Sample Prep Kits <sup>2,5</sup>

# TruSeq Universal Adapter

5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

# TruSeq Adapter, Index 1 6

- $5' \quad \text{GATCGGAAGACCACGTCTGAACTCCAGTCAC} \text{ATCTCGTATGCCGTCTTCTGCTTG} \\ \textbf{TruSeq Adapter, Index 2}$
- 5' Gatcggaagagcacacgtctgaactccagtcac<u>cgatgt</u>atctcgtatgccgtcttctgcttg **TruSeq Adapter. Index 3**
- $5' \;\; \mathsf{GATCGGAAGAGCACACGTCTGAACTCCAGTCAC} \underline{\mathsf{TTAGGC}} \underline{\mathsf{ATCTCGTATGCCGTCTTCTGCTTG}} \\ \mathbf{TruSeq} \; \mathbf{Adapter}, \mathbf{Index} \; \mathbf{4}$
- 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' GATCGGAAGACCACGTCTGAACTCCAGTCACGATCAGATCTCGTATGCCGTCTTCTGCTTG
  TruSeq Adapter, Index 10
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCAC<u>TAGCTT</u>ATCTCGTATGCCGTCTTCTGCTTG
  TruSeq Adapter, Index 11
- 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGGCTACATCTCGTATGCCGTCTTCTGCTTG
  TruSeq Adapter, Index 12
- 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTG
  TruSeq Adapter, Index 13
- 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGTCAACAATCTCGTATGCCGTCTTCTGCTTG

  TruSeq Adapter, Index 14
- 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGTTCCGTATCTCGTATGCCGTCTTCTGCTTG

  TruSeq Adapter, Index 15
- 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACATGTCAGAATCTCGTATGCCGTCTTCTGCTTG
  TruSeq Adapter, Index 16
- 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCCGTCCCGATCTCGTATGCCGTCTTCTGCTTG

  TruSeq Adapter, Index 18 7
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACGTCCGCACATCTCGTATGCCGTCTTCTGCTTG
  TruSeq Adapter, Index 19
- $5' \quad \text{GATCGGAAGAGCACCACTTGAACTCCAGTCAC} \\ \text{CGATCTCGTATGCCGTCTTCTGCTTG} \\ \textbf{TruSeq Adapter, Index 20}$
- 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTGGCCTTATCTCGTATGCCGTCTTCTGCTTG
  TruSeq Adapter, Index 21
- 5' Gatcggaagagcacacgtctgaactccagtcac $\underline{\text{GTTTCG}}$ gaatctcgtatgccgtcttctgcttg **TruSeq Adapter, Index 22**

\_

<sup>&</sup>lt;sup>6</sup> Index sequences are 6 bases as underlined. Please enter only these 6 bases on the sample sheet.

<sup>&</sup>lt;sup>7</sup> Index numbers 17, 24, and 26 are reserved.

- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACCGTACGTAATCTCGTATGCCGTCTTCTGCTTG TruSeq Adapter, Index 23
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACGAGTGGATATCTCGTATGCCGTCTTCTGCTTG
  TruSeq Adapter, Index 25
- 5' GATCGGAAGACCACGTCTGAACTCCAGTCACACTGATATATCTCGTATGCCGTCTTCTGCTTG
  TruSeq Adapter, Index 27
- 5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACATTCCTTTATCTCGTATGCCGTCTTCTGCTTG

# Oligonucleotide sequences for TruSeq® Small RNA Sample Prep Kits

# **RNA 5' Adapter (RA5),** part # 15013205

5' GUUCAGAGUUCUACAGUCCGACGAUC

# **RNA 3' Adapter (RA3),** part # 15013207

5' TGGAATTCTCGGGTGCCAAGG

# **Stop Oligo (STP)** <sup>8</sup>

5' GAAUUCCACCACGUUCCCGUGG

# **RNA RT Primer (RTP),** part # 15013981

5' GCCTTGGCACCCGAGAATTCCA

# **RNA PCR Primer (RP1),** part # 15013198

5' AATGATACGGCGACCACCGAGATCTACACGTTCAGAGTTCTACAGTCCGA

# **RNA PCR Primer, Index 1 (RPI1)** <sup>2,9</sup>

- 5' CAAGCAGAAGACGGCATACGAGAT<u>CGTGAT</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 2 (RPI2)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>ACATCG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 3 (RPI3)
- 5' CAAGCAGAAGACGGCATACGAGATGCCTAAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA 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

<sup>&</sup>lt;sup>8</sup> Patent pending.

<sup>&</sup>lt;sup>9</sup> 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' CAAGCAGAAGACGGCATACGAGAT<u>CTGATC</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA 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' CAAGCAGAAGACGGCATACGAGAT<u>GGACGG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 17 (RPI17)
- 5' CAAGCAGAAGACGGCATACGAGATCTCTACGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer. Index 18 (RPI18)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>GCGGAC</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA 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' CAAGCAGAAGACGGCATACGAGATCGTACGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA 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' CAAGCAGAAGACGGCATACGAGAT<u>CTTTTG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
  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' CAAGCAGAAGACGCATACGAGAT<u>ATCGTG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 32 (RPI32)
- 5' CAAGCAGAAGACGCATACGAGATTGAGTGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

# 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' CAAGCAGAAGACGGCATACGAGAT<u>ATTCCG</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
  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' CAAGCAGAAGACGGCATACGAGATGTCGTCGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
  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' CAAGCAGAAGACGGCATACGAGAT<u>ATTATA</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 45 (RPI45)
- 5' CAAGCAGAAGACGGCATACGAGATGAATGAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 46 (RPI46)
- 5' CAAGCAGAAGACGGCATACGAGAT<u>TCGGGA</u>GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
  RNA PCR Primer, Index 47 (RPI47)
- 5' CAAGCAGAAGACGGCATACGAGATCTTCGAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA RNA PCR Primer, Index 48 (RPI48)
- 5' CAAGCAGAAGACGCCATACGAGATTGCCGAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

# Nextera® DNA Sample Prep Kit (Epicentre Biotechnologies) 1,2,10

# **Transposon Sequences**

- 5'-GCCTCCCTCGCGCCATCAGAGATGTGTATAAGAGACAG
- 5'-GCCTTGCCAGCCCGCTCAGAGATGTGTATAAGAGACAG

# **Adaptors** (showing optional bar code)

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

# **PCR Primers**

- 5'-AATGATACGGCGACCACCGA
- 5'-CAAGCAGAAGACGGCATACGA

# 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

<sup>&</sup>lt;sup>10</sup> These kits are no longer available for purchase. As a replacement, we recommend FC-121-1031

# PE Read 2 Sequencing Primer

5' CGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCT

# Oligonucleotide sequences for the Multiplexing Sample Prep Oligo Only Kit<sup>2</sup>

# **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

 ${\tt 5'} {\tt CAAGCAGAAGACGGCATACGAGATGCCTAAGTGACTGGAGTTC}\\$ 

#### 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® Sample Preparation Kits (Included in TruSeq DNA and RNA (v1/v2/LT/HT) and TruSeq Exome Kits <sup>11</sup>

# CTE2 - 150bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCTTT
AAGAGTTGCTCTTTTTGTTTGGTAAGTTGCAAATCGAAGTTTTAGATTGAGTTCTACGTCGAGCGGCCGCGAT

# CTE2 - 250bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTTCTGGAGAACACTTGCCCATCAGTGCTTTTGAACCTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCCCACCCTGCTAGAAGATGGAGGTATGCAGCCCGTTAGTAGGAGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCCGCCGCGAT

# CTE2 - 350bp

# CTE2 - 450bp

# CTE2 - 550bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCGTTAGCTATCGTTCGCGAGAAAGTTAGTAGACACA CAGGACCCAGGCGTGCAAGTCAATTTCAGCTGACTACACCGATTCTGGTTAAAAGAGCCTATGGCCACCCTTATTTT AGAGAAAAAAAACCACACCTCTAATGTGTTGGGCACTAGAAAAAAGCTAACTACCTAGTCCGTTTCTGGACGACTTCA TTGGGAATAACATACCCCCCCACTGTGATTAAGACTGGCACTGTCCTAATGCTTTCTTCAATAGGTTTGGCTCATGTG TGATTCCCTCTGGCAAACTTATAGAGGACAAGCAGAATAAACCAATTCAAGGTCGTTGTAGCTGAAGGCCTGGCCTG CCTGACAGTTAATTATGAGCATGTCTTGCCCTTCATGGTGGATATTCACAGCTGAAAGTGGTATTGGCATTTTTTC TGAGGGACAACAACGAGGAAATCTGATAAATACGGCCACCTGAAGTCTAGCTCGGAGTTAACAATTTACCACGTTTAGA GCGGCCGCGAT

# CTE2 - 650bp

# CTE2 - 750bp

<sup>&</sup>lt;sup>11</sup> Patent pending

# CTE2 - 850bp

# CTE1 - 123bp

# CTE1 - 223bp

GATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGTGCTTTTGAACC
TTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGCTAGAAGATGGAGGTATGCAGCCCGTTA
GTAGGAGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCGGCCGCGATATCCTGCAGATGCA

# CTE1 - 323bp

# CTE1 - 423bp

GATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCACTTTGAGGCATGTAATATGGTACTGAGCTTCGGC ACAGGGCTCAAATTGCATCATTAAATGTCTCCGATGTGGCTATATGTCATGGATAAAGGCAGCCCCCTATATCTTT TTTGTGGCAGCATGGGTCCATCAAAGCAATTATTCAGGGTCTTAATGACCTCCACAGCTCTAAACGTAATTCATCTG GCTTTGCCTGTACTTACTTCCTCCATGAAAAAAAAGTGTTGATAATGCTCCATAATGCTGCCCAGCAATTTCCTCCCTT CTCAAGACTATTCTGGCTTCCTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTGCTGACAAAATTGCACTCTAAAC GCTAGCTTAGGTCTTCTGCGGCCGCGATATCCTGCAGATGCA

# CTE1 - 523bp

# CTE1 - 623bp

GATCCGCTCGCACTTAGCCTGTTAAGGGGTTCGCGCTCGTCTAGTCTGTGCTGTTGCCTGGATAGTAAATTATCATG
GTACAAACTTTTAAGAGCCAGTTAAATGGAGATGGATTTAAAAAGAGTTATTGTAAAGTCTCCCCAGGTGTGTCATT
AAATATCCCAACAGATTGCCCTGGCCTGACCCCCTAAATGCAATTTTGGGATTCCCTTTTAGTTGCTTTCATTAAAA
TGTACCAGCGCAGTAAAAAAAGCACAAAGTATATTGTTTATGTAACTCACTATCTCATTTGCACTGGTTACATGGCA
GCTTCAGACTGACTAACTACCAACTTTTCCCACCATGGTTCAAAGATCAACAGAACTGGGCCAACAAAAGCAATTTT
TTCATGTGGTCTAACTACCAACTTATTATGAGTTAAGTTACTTTTAGGTTTAAAATCACAGCAGTTTTTCCCTCCAC
ACCTCCCAGAGATACTTTCAGGGTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTGTTTCTTTATGGTGCTT

 $\tt GTGTCCTGACAACCGCGTAAGGCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGTGCGGCCGCGATATCCTGCAGATGCA$ 

# CTE1 - 723bp

# CTE1 - 823bp

# CTA - 150bp

# CTA - 250bp

GGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGTGCTTTTG
AACCTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACCCTGCTAGAAGATGGAGGTATGCAGCCC
GTTAGTAGGAGGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCGGCCGCGATATCCTGCAGATGCA
TCCAGTACTAGTATGGCCC

#### CTA - 350bp

# CTA - 450bp

GGGGGATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCACTTTGAGGCATGTAATATGGTACTGAGCTT
CGGCACAGGGCTCAAATTGCATCATTAAATGTCTCCGATGTGGCTATATGTCATGGATAAAGGCAGCCCCCTATATC
TTTTTTTTGTGGCAGCATGGGTCCATCAAAGCAATTATTCAGGGTCTTAATGACCTCCACAGCTCTAAACGTAATTCA
TCTGGCTTTGCCTGTACTTACTTCCTCCATGAAAAAAAGTGTTGATAATGCTCATAATGCTGCCCAGCAATTTCCTC
CCTTCTCAAGACTATTCTGGCTTCCTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTGCTGACAAAATTGCACTCT
AAACGCTAGCTTAGGTCTTCTGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

# CTA - 550bp

 $\tt CCACCTGAAGTCTAGCTCGGAGTTAACAATTTACCACGTTTAGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC$ 

# CTA - 650bp

GGGGGATCCGCTCGCACTTAGCCTGTTAAGGGGTTCGCGCTCGTCTAGTCTGTGCTGTTGCCTGGATAGTAAATTAT
CATGGTACAAACTTTTAAGAGCCAGTTAAATGGAGATGGATTTAAAAAGAGTTATTGTAAAGTCTCCCCAGGTGTGT
CATTAAATATCCCAACAGATTGCCCTGGCCTGACCCCCTAAATGCAATTTTGGGATTCCCTTTTAGTTGCTTTCATT
AAAATGTACCAGCGCAGTAAAAAAAAGCACAAAGTATATTGTTTATGTAACTCACTATCTCATTTGCACTGGTTACAT
GGCAGCTTCAGACTGACTAAAACTACACTTTTCCCACCATGGTTCAAAGATCAACAGAACTGGGCCAACAAAAGCAA
TTTTTTCATGTGGTCTAACTACCAACTTATTATGAGTTAAGTTACTTTTAGGTTTAAAATCACAGCAGTTTTTCCCT
CCACACCTCCCAGAGATACTTTCAGGGTGGCTAAACTTGGCTAAAAGGCTTCCGGACCAACCCTTGTTTCTTTATGGT
GCTTGTGTCCTGACAACCGCGTAAGGCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGTGCGGCCGCA
TATCCTGCAGATGCATCCAGTACTAGTATGGCCC

# CTA - 750bp

# CTA - 850bp

# CTL - 150bp

AGTATGGCCCGGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCTTTAAGAGTTGCTCTTTTT GTTTGGTAAGTTGCAAATCGAAGTTTTAGATTGAGTTCTACGTCGAGCGGCCGCGATATCCTGCAGATGC ATCCAGTACA

# CTL - 250bp

# CTL - 350bp

# CTL - 450bp

CCCCTATATCTTTTTTTGTGGCAGCATGGGTCCATCAAAGCAATTATTCAGGGTCTTAATGACCTCCACAGCTCTAA ACGTAATTCATCTGGCTTTGCCTGTACTTACTTCCTCCATGAAAAAAAGTGTTGATAATGCTCATAATGCTGCCCAG CAATTTCCTCCCTTCTCAAGACTATTCTGGCTTCCTGGGTACTTAAAAACAGGGCCTTAGAGTATGGCTGCTGACAAA ATTGCACTCTAAACGCTAGCTTAGGTCTTCTGCGGCCGCGATATCCTGCAGATGCATCCAGTACA

# CTL - 550bp

# CTL - 650bp

AGTATGGCCCGGGGGATCCGCTCGCACTTAGCCTGTTAAGGGGTTCGCGCTCGTCTAGTCTGTGCTGTTGCCTGGAT
AGTAAATTATCATGGTACAAACTTTTAAGAGCCAGTTAAATGGAGATGGATTTAAAAAGAGTTATTGTAAAGTCTCC
CCAGGTGTGTCATTAAATATCCCAACAGATTGCCCTGGCCTGACCCCCTAAATGCAATTTTGGGATTCCCTTTTAGT
TGCTTTCATTAAAATGTACCAGCGCAGTAAAAAAAGCACAAAGTATATTGTTTATGTAACTCACTATCTCATTTGCA
CTGGTTACATGGCAGCTTCAGACTGACTAAAACTACACTTTTCCCACCATGGTTCAAAGATCAACAGAACTGGGCCA
ACAAAAGCAATTTTTTCATGTGGTCTAACTACCAACTTATTATGAGTTAAGTTACTTTTAGGTTTAAAATCACAGCA
GTTTTTCCCTCCACACCTCCCAGAGATACTTTCAGGGTGGCTAAACTTGGCTAAAAGGCTTCCGGACCAACCCTTGTT
TCTTTATGGTGCTTGTGTCCTGACAACCGCGTAAGGCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGT
GCGGCCGCGATATCCTGCAGATGCATCCAGTACA

# CTL - 750bp

# CTL - 850bp