Illumina Adapter Sequences

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### TruSight Amplicon Panels

Includes TruSight Myeloid Sequencing Panel and TruSight Tumor 26

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### TruSight Rapid Capture

Includes TruSight Autism, TruSight Cancer, and TruSight Inherited Disease

#### Index 1 (i7) Adapters

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<th>i7 Bases for Sample Sheet</th>
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# Illumina Adapter Sequences

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N708 | CAGAGAGG
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N711 | AAGAGGCA
N712 | GTAGAGGA

## Index 2 (i5) Adapter

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## TruSight Tumor 15

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<td>A502</td>
<td>TGCTAAGT</td>
<td>ACTTAGCA</td>
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Illumina Nextera Library Prep Kits

Includes Nextera DNA, Nextera XT, Nextera Enrichment (obsolete), and Nextera Rapid Capture

Nextera Transposase Adapters
(Used for Nextera tagmentation)
Read 1
5’ TCGTCGCCAGCCTAGTGTATAGAGACAG
Read 2
5’ GTCTCGTGGGCTGGAGATGTATAGAGACAG

Nextera Index Kit – PCR Primers
Index 1 Read
5’ CAAGCAGAAGACGGCATACGA[i7]GTCTCGTGGGCTCGG
Index 2 Read
5’ AATGATACGGCTACAC[i5]TCGTCGCCAGCGTC

Nextera Index Kit - Index 1 (i7) Adapters

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Nextera Index Kit - Index 2 (i5) Adapters

The i5 index names vary for different Nextera products as follows:
- N50x—Nextera DNA
- S50x—Nextera XT
- E50x—Nextera Enrichment and Nextera Rapid Capture

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Nextera XT Index Kit v2 - Index 1 (i7) Adapters

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## Illumina Adapter Sequences

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### Nextera XT Index Kit v2 - Index 2 (i5) Adapters

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# Illumina Adapter Sequences

## TruSeq Amplicon Kits

TruSeq Custom Amplicon 1.5, TruSeq Amplicon Cancer Panel, and TruSeq Custom Amplicon Low Input

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TruSeq HT Kits

Includes TruSeq DNA PCR-Free HT, TruSeq Nano HT, TruSeq Stranded mRNA HT, and TruSeq Total RNA HT

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AATGATACGGCGACCACCGAGATCTACAC[15] ACACCTTTCTCCCTACACGACGCTCTTCCGATCT

D701–D712 Adapters
GATCGGAAGAGCACACGTCTGAACTCCAGTCAC[17] ATCTCGTATGCCGTCTTCTGCTT

Index 1 (i7) Adapters

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Illumina Adapter Sequences

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<td>GTCAGTAC</td>
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TruSeq LT Kits and TruSeq v1/v2 Kits


Index sequences are 6 bases as underlined. Enter the underlined 6 bases on the sample sheet.

TruSeq Universal Adapter

5’ AATGATACCGGGACACACCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

TruSeq Index Adapters (Index 1–27)

Index numbers 17, 24, and 26 are reserved.

TruSeq Adapter, Index 1

5’ GATCGGAAGAGCACACGTCTGACTTCAGTACCTTCAGCTCTTCAGCTCT

TruSeq Adapter, Index 2

5’ GATCGGAAGAGCACACGTCTGACTTCAGTACCTTCAGCTCTTCAGCTCT

TruSeq Adapter, Index 3

5’ GATCGGAAGAGCACACGTCTGACTTCAGTACCTTCAGCTCTTCAGCTCT

TruSeq Adapter, Index 4

5’ GATCGGAAGAGCACACGTCTGACTTCAGTACCTTCAGCTCTTCAGCTCT

TruSeq Adapter, Index 5

5’ GATCGGAAGAGCACACGTCTGACTTCAGTACCTTCAGCTCTTCAGCTCT

TruSeq Adapter, Index 6

5’ GATCGGAAGAGCACACGTCTGACTTCAGTACCTTCAGCTCTTCAGCTCT

TruSeq Adapter, Index 7

5’ GATCGGAAGAGCACACGTCTGACTTCAGTACCTTCAGCTCTTCAGCTCT
Illumina Adapter Sequences

TruSeq Adapter, Index 8
5’ GATCGGAAGAGCACACGTCTGAACTCCAGTCACACTTGAATCTCGTATGCGGTCTTCTGCTTG

TruSeq Adapter, Index 9
5’ GATCGGAAGAGCACACGTCTGAACTCCAGTCACGATCGGAAGAGCACACGTCTGAACTCCAGTCAC

TruSeq Adapter, Index 10
5’ GATCGGAAGAGCACACGTCTGAACTCCAGTCACAATCTCGTATGCGGTCTTCTGCTTG

TruSeq Adapter, Index 11
5’ GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCTCGTATGCGGTCTTCTGCTTG

TruSeq Adapter, Index 12
5’ GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCGTACTTGAATCTCGTATGCGGTCTTCTGCTTG

TruSeq Adapter, Index 13
5’ GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCGTAGTACG

TruSeq Adapter, Index 14
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TruSeq Adapter, Index 15
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TruSeq Adapter, Index 16
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TruSeq Adapter, Index 17
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TruSeq Adapter, Index 20
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TruSeq Adapter, Index 21
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TruSeq Adapter, Index 22
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TruSeq Adapter, Index 24
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TruSeq Adapter, Index 25
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TruSeq Adapter, Index 26
5’ GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCGTAGTACG

TruSeq Adapter, Index 27
5’ GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCGTAGTACG

TruSeq Adapter, Index 28
5’ GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCGTAGTACG
TruSeq Synthetic Long-Read DNA

Double-stranded DNA adapter containing long-range PCR primer binding site, sequencing primer binding site, and end marker sequence.

Long Reads Adapter
5’ CCGGTCTTCCCTGCCGAACCCTATCTTTCGTCGGCAGGTGATGTGTATAAGAGACAGTACGCTTGCAT

TruSeq Small RNA

RNA 5’ Adapter (RA5)
5’ GUUCAGAGUUUCUACAGUCCGACGAUC

RNA 3’ Adapter (RA3)
5’ TGGAAATTCTCGGTGCCAAGG

Stop Oligo (STP)
5’ GAAUUCCACCACGUUCCCCGUGG

RNA RT Primer (RTP)
5’ GCCTTGGCAACCGAGAATTCCA

RNA PCR Primer (RP1)
5’ AATGATACGGCGACCACCGAAGATCTACACGTTCAGAGTTCTACAGTCCGA

RNA PCR Index Primers (RPI1–RPI48)
Index sequence is 6 bases as underlined. Enter the underlined 6 bases on the sample sheet. Index sequences are read in the reverse complement in TruSeq small RNA libraries.

RNA PCR Primer, Index 1 (RPI1)
5’ CAAGCAGAAGACCGCATACGAGATCGATGTGACTGGAGTTCTTGCAACCCGAGAATTCCA

RNA PCR Primer, Index 2 (RPI2)
5’ CAAGCAGAAGACCGCATACGAGATCGATGTGACTGGAGTTCTTGCAACCCGAGAATTCCA

RNA PCR Primer, Index 3 (RPI3)
5’ CAAGCAGAAGACCGCATACGAGATCGATGTGACTGGAGTTCTTGCAACCCGAGAATTCCA

RNA PCR Primer, Index 4 (RPI4)
5’ CAAGCAGAAGACCGCATACGAGATCGATGTGACTGGAGTTCTTGCAACCCGAGAATTCCA

RNA PCR Primer, Index 5 (RPI5)
5’ CAAGCAGAAGACCGCATACGAGATCGATGTGACTGGAGTTCTTGCAACCCGAGAATTCCA
Illumina Adapter Sequences

RNA PCR Primer, Index 6 (RPI6)
5’ CAAGCAGAAGACGGCATACGAGATTTGGC GTGACCTTGAGTGAGTTTTGCTTTG GCAACC CGAAT TCCA

RNA PCR Primer, Index 7 (RPI7)
5’ CAAGCAGAAGACGGCATACGAGATTTGGC GTGACCTTGAGTGAGTTTTGCTTTG GCAACC CGAAT TCCA

RNA PCR Primer, Index 8 (RPI8)
5’ CAAGCAGAAGACGGCATACGAGATTTGGC GTGACCTTGAGTGAGTTTTGCTTTG GCAACC CGAAT TCCA

RNA PCR Primer, Index 9 (RPI9)
5’ CAAGCAGAAGACGGCATACGAGATTTGGC GTGACCTTGAGTGAGTTTTGCTTTG GCAACC CGAAT TCCA

RNA PCR Primer, Index 10 (RPI10)
5’ CAAGCAGAAGACGGCATACGAGATTTGGC GTGACCTTGAGTGAGTTTTGCTTTG GCAACC CGAAT TCCA

RNA PCR Primer, Index 11 (RPI11)
5’ CAAGCAGAAGACGGCATACGAGATTTGGC GTGACCTTGAGTGAGTTTTGCTTTG GCAACC CGAAT TCCA

RNA PCR Primer, Index 12 (RPI12)
5’ CAAGCAGAAGACGGCATACGAGATTTGGC GTGACCTTGAGTGAGTTTTGCTTTG GCAACC CGAAT TCCA

RNA PCR Primer, Index 13 (RPI13)
5’ CAAGCAGAAGACGGCATACGAGATTTGGC GTGACCTTGAGTGAGTTTTGCTTTG GCAACC CGAAT TCCA

RNA PCR Primer, Index 14 (RPI14)
5’ CAAGCAGAAGACGGCATACGAGATTTGGC GTGACCTTGAGTGAGTTTTGCTTTG GCAACC CGAAT TCCA

RNA PCR Primer, Index 15 (RPI15)
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RNA PCR Primer, Index 16 (RPI16)
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RNA PCR Primer, Index 17 (RPI17)
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RNA PCR Primer, Index 18 (RPI18)
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RNA PCR Primer, Index 19 (RPI19)
5’ CAAGCAGAAGACGGCATACGAGATTTGGC GTGACCTTGAGTGAGTTTTGCTTTG GCAACC CGAAT TCCA

RNA PCR Primer, Index 20 (RPI20)
5’ CAAGCAGAAGACGGCATACGAGATTTGGC GTGACCTTGAGTGAGTTTTGCTTTG GCAACC CGAAT TCCA

RNA PCR Primer, Index 21 (RPI21)
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RNA PCR Primer, Index 24 (RPI24)
5’ CAAGCAGAGACGGCATACGAGATGCTACC GTGACTGGAGTTCCTTGGCACCCGAG AATTCCA
RNA PCR Primer, Index 25 (RPI25)
5’ CAAGCAGAGACGGCATACGAGATATCAGT GTGACTGGAGTTCC TTGGCACCCGAGAATTCCA
RNA PCR Primer, Index 26 (RPI26)
5’ CAAGCAGAGACGGCATACGAGATGCTCAT GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
RNA PCR Primer, Index 27 (RPI27)
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RNA PCR Primer, Index 28 (RPI28)
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RNA PCR Primer, Index 29 (RPI29)
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5’ CAAGCAGAGACGGCATACGAGATCGCTG GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
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5’ CAAGCAGAGACGGCATACGAGATCCGGTG GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA
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RNA PCR Primer, Index 37 (RPI37)
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RNA PCR Primer, Index 38 (RPI38)
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RNA PCR Primer, Index 46 (RPI46)
5’ CAAGCAGAAGACGGCATACGAGATCGGGAATGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 47 (RPI47)
5’ CAAGCAGAAGACGGCATACGAGATCTTCGAATGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 48 (RPI48)
5’ CAAGCAGAAGACGGCATACGAGATGCCTGGAATGACTGGAGTTCCTTGGCACCCGAGAATTCCA

TruSeq Targeted RNA Expression

Index 1 (i7) Adapters

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<th>i7 Index Name</th>
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### Index 2 (i5) Adapter

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Appendix

Process Controls for TruSeq Kits

Included in TruSeq DNA PCR-Free, TruSeq Nano DNA, TruSeq RNA (v1/v2/LT/HT), and TruSeq Exome Kits

CTE2 - 150bp
ATCCTGCAGATGATCAGTCTAGTATGCGCCGGGGATCCTAGTCTATATGGTCTAATATCAGCGTACGGTATATAATACATTCTTCTATTTCGTCGCGCTCGTGCTAGTCTGTGCTGGATAGTAAATTATCATGGTACAAACTTTAAAGAGCCAGTTAAATGGAGATGGATTAAAGAGTTATTGTAAAGTCTCCCCAGGTGTGTCATTAAATATCCCAACAGATTGCCCTGGCCTGACCCTAAATG

CTE2 - 250bp
ATCCTGCAGATGATCAGTCTAGTATGCGCCGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACGGTCTGGAGAACACTTGCCCATCAGTGCTTTTGAACCTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGAACACACCTGCTAGAAGATGGAGGTATGCAGCCCGTTAGTAGGAGTAATACTACCCAGCTTATAACCCCTAAAACGCTAGGGCAGATGGCGGCCGCGAT

CTE2 - 350bp
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CTE2 - 450bp
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CTE2 - 550bp
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TATGGCAGACTTGTATTTGCTATATGCGGCGCCCGCCGAT

CTE2 - 750bp

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CTE2 - 850bp

CTE1 - 123bp

GATCCCTATCTGCTTCCTTCTTATAGGTATGTCGCTGCTCTCTCTCTACG

CTE1 - 223bp

GATCCCTATCTGCTTCCTTCTTATAGGTATGTCGCTGCTCTCTCTCTACG

CTE1 - 323bp

GATCCCTATCTGCTTCCTTCTTATAGGTATGTCGCTGCTCTCTCTCTACG

CTE1 - 423bp

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Illumina Adapter Sequences

CTE1 - 523bp

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GGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAA

CTE1 - 623bp

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GGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGTGCTTTTGAACTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGC
TAGAAGATGGAGGTATGCAGCCC

CTE1 - 723bp

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GGGGGATCCTTGGACCGTTAATTCATATCATCGAATGAGCAATGTGTTGGGCCCCTGCTGTAGTTGATTTATCCGATCGTTTATATGGGCGTGCGGCCGCGATATCCTGCAGATGCA

CTE1 - 823bp

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GGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGTGCTTTTGAACTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGC
TAGAAGATGGAGGTATGCAGCCC

CTA - 150bp

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CTA - 250bp

GGGGGATCCTTATCTGTCAATAGCGCTAACATCTAGCTGTCTTCTGAGGAGGTTGTCGGCCTCTGCTCTAGTCTGACCTGTCTGACAGTATGAAATTTATCTAGGTTCTATGAGCTGTACGTCACTAGTGTCTGACAAAGATGTTGTTGTGTGGAACGACGCTTAGC
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Illumina Adapter Sequences

GTTAGTAGGAGTAATACTACCCAGCTTATAACCCCTCAAACGTAGGGCAGATGGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

CTA - 350bp
GGGGGATCTTCTAGAGACCATTTCGCCGATTCCTACATGGACTTCCAAGGGTTCTGCAACAACCTATTGCACCTCTCTATTAGATCATTGTTGCCTAGACATGCATCCAGTACTAGTATGGCCCCTA

CTA - 450bp
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CTA - 550bp
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CTA - 650bp
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CTA - 750bp
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October 2015
CTA - 850bp

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CTL - 150bp

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AAATGGTGGATGTGGACTTTAGAATTTAAGATAATAAAGCTCTTGATCCCAA

CTL - 250bp

AGTATGCGCCCGGGGATATCGCTTCCAATGCAAGACGACTCGTATAACCCCTTTAAGAGTTGCTCTTTTTGTTTGGT
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CTL - 350bp

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CTL - 450bp

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CTL - 550bp

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CTL - 650bp

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CTL - 750bp
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CTL - 850bp
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ATGGAACACATTTTCTGCTTGGACAGGTCCACCTCACATGGGTCTGTCTAATATTAAAAGAGGGATT
Legacy Kits

The kits listed in this section are no longer sold.

Nextera DNA Sample Prep Kit (Epicentre Biotechnologies)

(Obsolete)
As a replacement, use catalog # FC-121-1031.

Transposon Sequences
5’-GCCTCCCTCGCCGATCAGAGATGTGTATAAGAGACAG
5’-GCCTTGCCAGCCCGCTCAGAGATGTGTATAAGAGACAG

Adapters (showing optional bar code)
5’-AATGATACGGCGACACGCTATACGACTCACTATAG [barcode] CGGTGTCTTCCGAGCTGCTACAG-3’

PCR Primers
5’-AATGATACGGCGACACGCTCTTCCGAGCTGCTACAG
5’-CAAGCAGAAGACGCACGCTCTTCCGAGCTGCTACAG

Oligonucleotide Sequences for Genomic DNA

(Obsolete)

Adapters
5’-GATCAGAGCGCATCTACTATAGCGTCTTCTGCTTGG
5’-ACGTCTTTCTACAGCGCTCTTCCGATCT

PCR Primers
5’-AATGATACGGCGACACGCTCTTCCGAGCTGCTACAG
5’-CAAGCAGAAGACGCACGCTCTTCCGAGCTGCTACAG

Genomic DNA Sequencing Primer
5’-ACGTCTTTCTACAGCGCTCTTCCGATCT
Oligonucleotide Sequences for Paired End DNA

(Obsolete)

PE Adapters
5' P-GATCGGAAGAGCGGTTCAGCAGGAATGCCGAG
5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

PE PCR Primer 1.0
5' AATGATACGCGCCGAGACACGCTCTTCCGATCT

PE PCR Primer 2.0
5' CAAGCAGAAGACGGCATACGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCT

PE Read 1 Sequencing Primer
5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

PE Read 2 Sequencing Primer
5' CGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCT

Oligonucleotide Sequences for the Multiplexing Sample Prep Oligo Only Kit

(Obsolete)

Multiplexing Adapters
5' P-GATCGGAAGAGCGACACGCTCT
5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

Multiplexing PCR Primer 1.0
5' AATGATACGCGCCGAGACACGCTCTTCCGATCT

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' GTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCT

PCR Primer Index Sequences 1–12

PCR Primer, Index 1
5' CAAGCAGAAGACGGCATACGAGATCGTGATGACTGGAGTTCC

PCR Primer, Index 2
5' CAAGCAGAAGACGGCATACGAGATCGTGATGACTGGAGTTCC

PCR Primer, Index 3
5' CAAGCAGAAGACGGCATACGAGATCGTGATGACTGGAGTTCC

PCR Primer, Index 4
5' CAAGCAGAAGACGGCATACGAGATCGTGATGACTGGAGTTCC

PCR Primer, Index 5
5' CAAGCAGAAGACGGCATACGAGATCGTGATGACTGGAGTTCC

PCR Primer, Index 6
5' CAAGCAGAAGACGGCATACGAGATCGTGATGACTGGAGTTCC

PCR Primer, Index 7
5' CAAGCAGAAGACGGCATACGAGATCGTGATGACTGGAGTTCC

PCR Primer, Index 8
5' CAAGCAGAAGACGGCATACGAGATCGTGATGACTGGAGTTCC

PCR Primer, Index 9
5' CAAGCAGAAGACGGCATACGAGATCGTGATGACTGGAGTTCC

PCR Primer, Index 10
5' CAAGCAGAAGACGGCATACGAGATCGTGATGACTGGAGTTCC

PCR Primer, Index 11
5' CAAGCAGAAGACGGCATACGAGATCGTGATGACTGGAGTTCC

PCR Primer, Index 12
5' CAAGCAGAAGACGGCATACGAGATCGTGATGACTGGAGTTCC

Oligonucleotide Sequences for the v1 and v1.5 Small RNA Kits
(Obsolete)

RT Primer
5' CAAGCAGAAGACGGCATACGA
5' RNA Adapter
5' GUUCAGAGUUUCAGUCCGACGAUC

3' RNA Adapter
5' P-UCGUAGCCGUCUUCUGCUUGUdT

v1.5 Small RNA 3' Adapter
5' /5rApp/ATCTCGTGATGCCGTCTCTTGCTTGTG/3ddC/

Small RNA PCR Primer 1
5' CAAGCAGAAGACGGCATACGA

Small RNA PCR Primer 2
5' AATGATACGGCGACCAGGTTCAGAGTTCTACAGTCCGA

Small RNA Sequencing Primer
5' CGACAGGTTCAGAGTTCTACAGTCCGACGATC
## Revision History

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