

# Illumina Adapter Sequences

ILLUMINA PROPRIETARY

Document # 1000000002694 v16

April 2021

**For Research Use Only. Not for use in diagnostic procedures.**

This document provides the nucleotide sequences that comprise Illumina oligonucleotides used in Illumina sequencing technologies. These sequences are provided for the sole purpose of understanding and publishing the results of your sequencing experiments.

### Proprietary to Illumina

The oligonucleotides are proprietary to Illumina. 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.

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

### Limited Permissions

Your permission to copy or distribute sequence information is limited to within your institution for use only with Illumina instruments and associated equipment, consumables, and software. You may not copy or distribute this information outside your institution, except under the following circumstances.

You may distribute outside your institution and publish the sequence information in presentations, manuscripts, or publications authored by you, if the following copyright notice is included:

**Oligonucleotide sequences © 2021 Illumina, Inc. All rights reserved.**

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

**Oligonucleotide sequences © 2021 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 or for questions on custom oligonucleotides, please contact Illumina to discuss the permissions or licenses that might be required.

© 2021 Illumina, Inc. All rights reserved.

All trademarks are the property of Illumina, Inc. or their respective owners. For specific trademark information, see [www.illumina.com/company/legal.html](http://www.illumina.com/company/legal.html).

# Revision History

| Document                           | Date             | Description of Change                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Document #<br>1000000002694<br>v16 | April 2021       | Added HTML format.                                                                                                                                                                                                                                                                                                                                                                  |
| Document #<br>1000000002694<br>v15 | February<br>2021 | Corrected i7 bases in adapters sequences for TruSeq indexes.<br>Added the following sequences and bases: <ul style="list-style-type: none"> <li>• V1 indexes for UDI0015, UDI0016, UDI0055, UDI0056, UDP0252, UDP0258, UDP0289, UDP0290, UDP0291, and UDP0301.</li> <li>• TruSight Tumor 15 i7 indexes.</li> <li>• i5 bases in adapters for IDT for Illumina UD Indexes.</li> </ul> |
| Document #<br>1000000002694<br>v14 | July 2020        | Added information in support of the NovaSeq 6000 Reagent Kit v1.5.<br>Added adapter sequencing for IDT for Illumina-PCR UD Indexes Set 1, 2, 3, and 4.                                                                                                                                                                                                                              |
| Document #<br>1000000002694<br>v13 | June 2020        | Replaced UDI0015, UDI0016, UDI0055, UDI0056, UDP0252, UDP0258, UDP0289, UDP0290, UDP0291, and UDP0301 with V2 versions.<br>Updated Nextera section to reflect new kit names.<br>Added NextSeq 2000 to the IDT for Illumina–TruSeq DNA and RNA UD Indexes table.                                                                                                                     |

| Document                           | Date          | Description of Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Document #<br>1000000002694<br>v12 | March 2020    | <p>Added information for HiSeq X.<br/> Added information for NextSeq 2000.<br/> Added TruSight Oncology 500 adapter sequences.<br/> Corrected the following information:</p> <ul style="list-style-type: none"> <li>• IDT for Illumina Nextera DNA UD Indexes, Plate D adapter sequences for i5 bases iSeq, MiniSeq, NextSeq, HiSeq 3000/4000.</li> <li>• TruSight Tumor 170 UP08 i7 and i5 index names.</li> <li>• TruSight Tumor 170 UP08 and UP09 i7 adapter sequences.</li> </ul> |
| Document #<br>1000000002694<br>v11 | April 2019    | <p>Added adapter sequences for IDT for Illumina Nextera DNA UD Indexes Sets B, C, and D.</p>                                                                                                                                                                                                                                                                                                                                                                                          |
| Document #<br>1000000002694<br>v10 | February 2019 | <p>Added sequences for AmpliSeq UD Indexes for Illumina and AmpliSeq CD Indexes.<br/> Renamed the following sections to include RNA:</p> <ul style="list-style-type: none"> <li>• <i>IDT for Illumina TruSeq DNA and RNA UD Indexes</i></li> <li>• <i>TruSeq DNA and RNA CD Indexes</i></li> </ul> <p>Corrected TruSeq Small RNA sequences needed for sample sheet.</p>                                                                                                               |

| Document                           | Date             | Description of Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Document #<br>1000000002694<br>v09 | November<br>2018 | <p>Updated the document structure:</p> <ul style="list-style-type: none"> <li>• Consolidated sections by kit.</li> <li>• Consolidated index adapter tables for TruSight DNA Enrichment and Nextera DNA indexes.</li> <li>• Divided the <i>IDT for Illumina UD Indexes</i> section between the Nextera and TruSeq sections.</li> <li>• Reorganized TruSight RNA Pan-Cancer Panel information for clarity and consistency.</li> <li>• Reorganized TruSeq Small RNA index adapters into a table.</li> <li>• Moved TruSeq Synthetic Long-Read DNA, TruSeq DNA Methylation, and TruSeq Ribo Profile sequences to <i>Legacy Kits</i>.</li> </ul> <p>Added the following sequences and bases:</p> <ul style="list-style-type: none"> <li>• Adapter trimming sequences where applicable.</li> <li>• Bases for [E/H/N/S]517, a Nextera DNA i5 adapter.</li> <li>• The i7 bases in adapter for TruSeq UD Indexes.</li> <li>• The universal adapter sequence for TruSeq DNA Methylation.</li> <li>• For TruSight Tumor 170, the i5 sample sheet bases for systems that do not require an i5 reverse complement.</li> </ul> <p>Added the following miscellaneous information:</p> <ul style="list-style-type: none"> <li>• The adapter sequences for TruSight RNA Pan-Cancer Panel and TruSeq Single Indexes can vary.</li> <li>• Current versions of Sequencing Analysis Viewer do not show metrics for control sequences</li> </ul> |
| Document #<br>1000000002694<br>v08 | October<br>2018  | Added IDT for Illumina Nextera DNA UD Indexes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| Document                           | Date              | Description of Change                                                                                                                                                                                                                                                             |
|------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Document #<br>1000000002694<br>v07 | June 2018         | Added the iSeq 100 Sequencing System, which requires a reverse complement.                                                                                                                                                                                                        |
| Document #<br>1000000002694<br>v06 | February<br>2018  | Added TruSight Tumor 170 indexes.                                                                                                                                                                                                                                                 |
| Document #<br>1000000002694<br>v05 | February<br>2018  | Updated IDT for Illumina to include 96 indexes.                                                                                                                                                                                                                                   |
| Document #<br>1000000002694<br>v04 | January<br>2018   | Added AmpliSeq for Illumina Panels.                                                                                                                                                                                                                                               |
| Document #<br>1000000002694<br>v03 | October<br>2017   | Corrected i5 bases for Nextera DNA CD Indexes for use with MiSeq and HiSeq systems.<br>Reorganized TruSeq sections.                                                                                                                                                               |
| Document #<br>1000000002694<br>v02 | September<br>2017 | Added adapters for Nextera DNA CD Indexes.                                                                                                                                                                                                                                        |
| Document #<br>1000000002694<br>v01 | February<br>2016  | Added explanation of reverse complements in the sample sheet.<br>Corrected i5 adapter names for TruSight One to E502–E505.<br>Added adapters for TruSight RNA Pan-Cancer, TruSeq DNA Methylation, and TruSeq Ribo Profile.<br>Added MiniSeq, which requires a reverse complement. |

| Document                           | Date            | Description of Change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Document #<br>1000000002694<br>v00 | October<br>2015 | <p>Added information for the following TruSight kits:</p> <ul style="list-style-type: none"><li>• TruSight Cardio</li><li>• TruSight Myeloid Sequencing Panel</li><li>• TruSight One</li><li>• TruSight Rapid Capture</li><li>• TruSight Tumor 15</li><li>• TruSight Tumor 26</li></ul> <p>Created a TruSeq Amplicon section with information for the following kits:</p> <ul style="list-style-type: none"><li>• TruSeq Custom Amplicon 1.5</li><li>• TruSeq Amplicon Cancer Panel</li><li>• TruSeq Custom Amplicon Low Input</li></ul> <p>Marked obsolete kits as obsolete.</p> <p>Grouped legacy kit information in new section titled Legacy Kits.</p> <p>Reformatted and reorganized the contents.</p> <p>Assigned document # 1000000002694.</p> |

# Table of Contents

|                                                                                 |     |
|---------------------------------------------------------------------------------|-----|
| Revision History .....                                                          | iii |
| Introduction .....                                                              | 1   |
| Sequences for Nextera, Illumina Prep, and Illumina PCR Kits .....               | 2   |
| IDT for Illumina UD Indexes .....                                               | 3   |
| Nextera DNA Indexes .....                                                       | 28  |
| Sequences for AmpliSeq for Illumina Panels .....                                | 31  |
| Sequences for TruSight Kits .....                                               | 34  |
| TruSight Amplicon Panels .....                                                  | 34  |
| TruSight DNA Enrichment Kits .....                                              | 35  |
| TruSight Tumor 170 and TruSight Oncology 500 .....                              | 36  |
| TruSight Oncology ctDNA .....                                                   | 39  |
| TruSight Tumor 15 .....                                                         | 41  |
| TruSight RNA Pan-Cancer Panel .....                                             | 42  |
| Sequences for TruSeq Kits .....                                                 | 45  |
| IDT for Illumina–TruSeq DNA and RNA UD Indexes .....                            | 45  |
| TruSeq DNA and RNA CD Indexes .....                                             | 50  |
| TruSeq Single Indexes .....                                                     | 51  |
| TruSeq Amplicon Kits .....                                                      | 53  |
| TruSeq Small RNA .....                                                          | 54  |
| TruSeq Targeted RNA Expression .....                                            | 58  |
| Process Controls for TruSeq Kits .....                                          | 61  |
| Legacy Kits .....                                                               | 69  |
| Nextera DNA Sample Prep Kit (Epicentre Biotechnologies) .....                   | 69  |
| TruSeq Synthetic Long-Read DNA .....                                            | 69  |
| TruSeq DNA Methylation .....                                                    | 69  |
| TruSeq Ribo Profile .....                                                       | 70  |
| Oligonucleotide Sequences for Genomic DNA .....                                 | 71  |
| Oligonucleotide Sequences for Paired End (PE) DNA .....                         | 72  |
| Oligonucleotide Sequences for the Multiplexing Sample Prep Oligo-Only Kit ..... | 72  |
| Oligonucleotide Sequences for the Small RNA v1 and v1.5 Kits .....              | 74  |

# Introduction

This documentation lists the adapter sequences for Illumina library prep kits.

For product compatibility information, visit the support pages for your library prep kit on the Illumina website ([support.illumina.com](https://support.illumina.com)).

## Reverse Complements

Dual indexing on the following instruments requires the reverse complement of the Index 2 (i5) adapter sequence: iSeq 100, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 2000 in Standalone mode, NextSeq 550, NextSeq 500, HiSeq 4000, HiSeq 3000, and HiSeq X Systems.

- If you are manually creating a sample sheet for these systems, enter the reverse complement of the sequence.
- If you are using Instrument Run Setup, Illumina Experiment Manager (IEM), BaseSpace Sequence Hub Prep tab, or Local Run Manager to record the adapter sequences, the software automatically creates the reverse complement.
- NextSeq 2000 uses an in-solution primer for Index 2. However, the DRAGEN on-instrument platform will automatically reverse complement i5 indexes during secondary analysis.
  - If you are using Instrument Run Setup or manually creating a sample sheet in v2 file format, enter the forward orientation of the sequence.
  - If you are manually creating a sample sheet in v1 file format, enter the reverse complement of the sequence.

## Adapter Trimming Sequences

Sections for kits that recommend adapter trimming include the adapter trimming sequences. The adapter sequence is the sequence of the adapter to be trimmed.

When read length exceeds DNA insert size, a run can sequence beyond the DNA insert and read bases from the sequencing adapter. To prevent these bases from appearing in FASTQ files, the adapter sequence is trimmed from the 3' ends of reads. Trimming the adapter sequence improves alignment accuracy and performance in Illumina FASTQ generation pipelines.

IEM, Instrument Run Setup, BaseSpace Sequence Hub Prep tab, and Local Run Manager record adapter trimming sequences for Illumina kits in the sample sheet. For specific settings, see the documentation for your software. Instrument Run Setup is documented in the *NextSeq 2000 Sequencing System Guide* (document # 1000000109376).

# Sequences for Nextera, Illumina Prep, and Illumina PCR Kits

## Adapter Trimming

The following sequence is used for Read 1 and Read 2 adapter trimming.

```
CTGTCTCTTATACACATCT
```

## Illumina DNA PCR-Free Prep, Tagmentation Adapter Trimming

The following sequence includes two adapter sequences joined by a plus sign. When performing adapter trimming, the software independently assesses each adapter for trimming.

```
CTGTCTCTTATACACATCT+ATGTGTATAAGAGACA
```

## Nextera Mate Pair Adapter Trimming

The following sequence includes two adapter sequences joined by a plus sign. When performing adapter trimming, the software independently assesses each adapter for trimming.

```
CTGTCTCTTATACACATCT+AGATGTGTATAAGAGACAG
```

## Nextera Transposase Adapters

The transposase adapters are used for Nextera tagmentation.

### Read 1

```
5' TCGTCGGCAGCGTCAGATGTGTATAAGAGACAG
```

### Read 2

```
5' GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG
```

## PCR Primers

### Index 1 Read

```
5' CAAGCAGAAGACGGCATACGAGAT[i7]GTCTCGTGGGCTCGG
```

### Index 2 Read

```
5' AATGATACGGCGACCACCGAGATCTACAC[i5]TCGTCGGCAGCGTC
```

## IDT for Illumina UD Indexes

These unique dual (UD) index adapters are arranged in the plate to enforce the recommended pairing strategy. The index adapters are 10 bases long, instead of the typical eight bases. The IDT for Illumina UD Indexes include IDT for Illumina–DNA/RNA UD Indexes, IDT for Illumina–PCR UD Indexes, and IDT for Illumina–Nextera DNA UD Indexes.

### Index 1 (i7) Adapters

CAAGCAGAAGACGGCATACGAGAT [i7] GTCTCGTGGGCTCGG

### Index 2 (i5) Adapters

AATGATACGGCGACCACCGAGATCTACAC [i5] TCGTCGGCAGCGTC

### Plate A/Set 1 Index Adapters

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0001    | CGCTCAGTTC          | GAAGTACGAGCG              | TCGTGGAGCG          | TCGTGGAGCG                                                                                                            | CGCTCCACGA                                                                                                                                       |
| UDP0002    | TATCTGACCT          | AGGTCAGATA                | CTACAAGATA          | CTACAAGATA                                                                                                            | TATCTTGTAG                                                                                                                                       |
| UDP0003    | ATATGAGACG          | CGTCTCATAT                | TATAGTAGCT          | TATAGTAGCT                                                                                                            | AGCTACTATA                                                                                                                                       |
| UDP0004    | CTTATGGAAT          | ATTCCATAAG                | TGCCTGGTGG          | TGCCTGGTGG                                                                                                            | CCACCAGGCA                                                                                                                                       |
| UDP0005    | TAATCTCGTC          | GACGAGATTA                | ACATTATCCT          | ACATTATCCT                                                                                                            | AGGATAATGT                                                                                                                                       |
| UDP0006    | GCGCGATGTT          | AACATCGCGC                | GTCCACTTGT          | GTCCACTTGT                                                                                                            | ACAAGTGGAC                                                                                                                                       |
| UDP0007    | AGAGCACTAG          | CTAGTGCTCT                | TGGAACAGTA          | TGGAACAGTA                                                                                                            | TACTGTTCCA                                                                                                                                       |
| UDP0008    | TGCCTTGATC          | GATCAAGGCA                | CCTTGTTAAT          | CCTTGTTAAT                                                                                                            | ATTAACAAGG                                                                                                                                       |
| UDP0009    | CTACTCAGTC          | GACTGAGTAG                | GTTGATAGTG          | GTTGATAGTG                                                                                                            | CACTATCAAC                                                                                                                                       |
| UDP0010    | TCGTCTGACT          | AGTCAGACGA                | ACCAGCGACA          | ACCAGCGACA                                                                                                            | TGTCGCTGGT                                                                                                                                       |
| UDP0011    | GAACATACGG          | CCGTATGTTC                | CATACACTGT          | CATACACTGT                                                                                                            | ACAGTGTATG                                                                                                                                       |
| UDP0012    | CCTATGACTC          | GAGTCATAGG                | GTGTGGCGCT          | GTGTGGCGCT                                                                                                            | AGCGCCACAC                                                                                                                                       |
| UDP0013    | TAATGGCAAG          | CTTGCCATTA                | ATCACGAAGG          | ATCACGAAGG                                                                                                            | CCTTCGTGAT                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0014    | GTGCCGCTTC          | GAAGCGGCAC                | CGGCTCTACT          | CGGCTCTACT                                                                                                            | AGTAGAGCCG                                                                                                                                       |
| UDP0015    | CGGCAATGGA          | TCCATTGCCG                | GAATGCACGA          | GAATGCACGA                                                                                                            | TCGTGCATTC                                                                                                                                       |
| UDP0016    | GCCGTAACCG          | CGGTTACGGC                | AAGACTATAG          | AAGACTATAG                                                                                                            | CTATAGTCTT                                                                                                                                       |
| UDP0017    | AACCATTCTC          | GAGAATGGTT                | TCGGCAGCAA          | TCGGCAGCAA                                                                                                            | TTGCTGCCGA                                                                                                                                       |
| UDP0018    | GGTTGCCTCT          | AGAGGCAACC                | CTAATGATGG          | CTAATGATGG                                                                                                            | CCATCATTAG                                                                                                                                       |
| UDP0019    | CTAATGATGG          | CCATCATTAG                | GGTTGCCTCT          | GGTTGCCTCT                                                                                                            | AGAGGCAACC                                                                                                                                       |
| UDP0020    | TCGGCCTATC          | GATAGGCCGA                | CGCACATGGC          | CGCACATGGC                                                                                                            | GCCATGTGCG                                                                                                                                       |
| UDP0021    | AGTCAACCAT          | ATGGTTGACT                | GGCCTGTCCT          | GGCCTGTCCT                                                                                                            | AGGACAGGCC                                                                                                                                       |
| UDP0022    | GAGCGCAATA          | TATTGCGCTC                | CTGTGTTAGG          | CTGTGTTAGG                                                                                                            | CCTAACACAG                                                                                                                                       |
| UDP0023    | AACAAGGCGT          | ACGCCTTGTT                | TAAGGAACGT          | TAAGGAACGT                                                                                                            | ACGTTCCCTTA                                                                                                                                      |
| UDP0024    | GTATGTAGAA          | TTCTACATAC                | CTAACTGTAA          | CTAACTGTAA                                                                                                            | TTACAGTTAG                                                                                                                                       |
| UDP0025    | TTCTATGGTT          | AACCATAGAA                | GGCGAGATGG          | GGCGAGATGG                                                                                                            | CCATCTCGCC                                                                                                                                       |
| UDP0026    | CCTCGCAACC          | GGTTGCGAGG                | AATAGAGCAA          | AATAGAGCAA                                                                                                            | TTGCTCTATT                                                                                                                                       |
| UDP0027    | TGGATGCTTA          | TAAGCATCCA                | TCAATCCATT          | TCAATCCATT                                                                                                            | AATGGATTGA                                                                                                                                       |
| UDP0028    | ATGTCGTGGT          | ACCACGACAT                | TCGTATGCGG          | TCGTATGCGG                                                                                                            | CCGCATACGA                                                                                                                                       |
| UDP0029    | AGAGTGCGGC          | GCCGCACTCT                | TCCGACCTCG          | TCCGACCTCG                                                                                                            | CGAGGTGCGA                                                                                                                                       |
| UDP0030    | TGCCTGGTGG          | CCACCAGGCA                | CTTATGGAAT          | CTTATGGAAT                                                                                                            | ATTCCATAAG                                                                                                                                       |
| UDP0031    | TGCGTGTCAC          | GTGACACGCA                | GCTTACGGAC          | GCTTACGGAC                                                                                                            | GTCCGTAAGC                                                                                                                                       |
| UDP0032    | CATACACTGT          | ACAGTGTATG                | GAACATACGG          | GAACATACGG                                                                                                            | CCGTATGTTC                                                                                                                                       |
| UDP0033    | CGTATAATCA          | TGATTATACG                | GTCGATTACA          | GTCGATTACA                                                                                                            | TGTAATCGAC                                                                                                                                       |
| UDP0034    | TACGCGGCTG          | CAGCCGCGTA                | ACTAGCCGTG          | ACTAGCCGTG                                                                                                            | CACGGCTAGT                                                                                                                                       |
| UDP0035    | GCGAGTTACC          | GGTAACTCGC                | AAGTTGGTGA          | AAGTTGGTGA                                                                                                            | TCACCAACTT                                                                                                                                       |
| UDP0036    | TACGGCCGGT          | ACCGGCCGTA                | TGGCAATATT          | TGGCAATATT                                                                                                            | AATATTGCCA                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0037    | GTCGATTACA          | TGTAATCGAC                | GATCACCGCG          | GATCACCGCG                                                                                                            | CGCGGTGATC                                                                                                                                       |
| UDP0038    | CTGTCTGCAC          | GTGCAGACAG                | TACCATCCGT          | TACCATCCGT                                                                                                            | ACGGATGGTA                                                                                                                                       |
| UDP0039    | CAGCCGATTG          | CAATCGGCTG                | GCTGTAGGAA          | GCTGTAGGAA                                                                                                            | TTCTACAGC                                                                                                                                        |
| UDP0040    | TGACTACATA          | TATGTAGTCA                | CGCACTAATG          | CGCACTAATG                                                                                                            | CATTAGTGCG                                                                                                                                       |
| UDP0041    | ATTGCCGAGT          | ACTCGGCAAT                | GACAACTGAA          | GACAACTGAA                                                                                                            | TTCAGTTGTC                                                                                                                                       |
| UDP0042    | GCCATTAGAC          | GTCTAATGGC                | AGTGGTCAGG          | AGTGGTCAGG                                                                                                            | CCTGACCACT                                                                                                                                       |
| UDP0043    | GGCGAGATGG          | CCATCTCGCC                | TTCTATGGTT          | TTCTATGGTT                                                                                                            | AACCATAGAA                                                                                                                                       |
| UDP0044    | TGGCTCGCAG          | CTGCGAGCCA                | AATCCGGCCA          | AATCCGGCCA                                                                                                            | TGGCCGGATT                                                                                                                                       |
| UDP0045    | TAGAATAACG          | CGTTATTCTA                | CCATAAGGTT          | CCATAAGGTT                                                                                                            | AACCTTATGG                                                                                                                                       |
| UDP0046    | TAATGGATCT          | AGATCCATTA                | ATCTCTACCA          | ATCTCTACCA                                                                                                            | TGGTAGAGAT                                                                                                                                       |
| UDP0047    | TATCCAGGAC          | GTCCTGGATA                | CGGTGGCGAA          | CGGTGGCGAA                                                                                                            | TTGCCACCG                                                                                                                                        |
| UDP0048    | AGTGCCACTG          | CAGTGGCACT                | TAACAATAGG          | TAACAATAGG                                                                                                            | CCTATTGTTA                                                                                                                                       |
| UDP0049    | GTGCAACACT          | AGTGTTGCAC                | CTGGTACACG          | CTGGTACACG                                                                                                            | CGTGTACCAG                                                                                                                                       |
| UDP0050    | ACATGGTGTC          | GACACCATGT                | TCAACGTGTA          | TCAACGTGTA                                                                                                            | TACACGTTGA                                                                                                                                       |
| UDP0051    | GACAGACAGG          | CCTGTCTGTC                | ACTGTTGTGA          | ACTGTTGTGA                                                                                                            | TCACAACAGT                                                                                                                                       |
| UDP0052    | TCTTACATCA          | TGATGTAAGA                | GTGCGTCCTT          | GTGCGTCCTT                                                                                                            | AAGGACGCAC                                                                                                                                       |
| UDP0053    | TTACAATTCC          | GGAATTGTAA                | AGCACATCCT          | AGCACATCCT                                                                                                            | AGGATGTGCT                                                                                                                                       |
| UDP0054    | AAGCTTATGC          | GCATAAGCTT                | TTCCGTCGCA          | TTCCGTCGCA                                                                                                            | TGCGACGGAA                                                                                                                                       |
| UDP0055    | TATTCTCAG           | CTGAGGAATA                | CTTAACCACT          | CTTAACCACT                                                                                                            | AGTGGTTAAG                                                                                                                                       |
| UDP0056    | CTCGTGCATT          | AACGCACGAG                | GCCTCGGATA          | GCCTCGGATA                                                                                                            | TATCCGAGGC                                                                                                                                       |
| UDP0057    | TTAGGATAGA          | TCTATCCTAA                | CGTCGACTGG          | CGTCGACTGG                                                                                                            | CCAGTCGACG                                                                                                                                       |
| UDP0058    | CCGAAGCGAG          | CTCGCTTCGG                | TACTAGTCAA          | TACTAGTCAA                                                                                                            | TTGACTAGTA                                                                                                                                       |
| UDP0059    | GGACCAACAG          | CTGTTGGTCC                | ATAGACCGTT          | ATAGACCGTT                                                                                                            | AACGGTCTAT                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0060    | TTCCAGGTAA          | TTACCTGGAA                | ACAGTTCCAG          | ACAGTTCCAG                                                                                                            | CTGGAACGTG                                                                                                                                       |
| UDP0061    | TGATTAGCCA          | TGGCTAATCA                | AGGCATGTAG          | AGGCATGTAG                                                                                                            | CTACATGCCT                                                                                                                                       |
| UDP0062    | TAACAGTGTT          | AACACTGTTA                | GCAAGTCTCA          | GCAAGTCTCA                                                                                                            | TGAGACTTGC                                                                                                                                       |
| UDP0063    | ACCGCGCAAT          | ATTGCGCGGT                | TTGGCTCCGC          | TTGGCTCCGC                                                                                                            | GCGGAGCCAA                                                                                                                                       |
| UDP0064    | GTTTCGCGCA          | TGGCGCGAAC                | AACGTGATACT         | AACGTGATACT                                                                                                           | AGTATCAGTT                                                                                                                                       |
| UDP0065    | AGACACATTA          | TAATGTGTCT                | GTAAGGCATA          | GTAAGGCATA                                                                                                            | TATGCCTTAC                                                                                                                                       |
| UDP0066    | GCGTTGGTAT          | ATACCAACGC                | AATTGCTGCG          | AATTGCTGCG                                                                                                            | CGCAGCAATT                                                                                                                                       |
| UDP0067    | AGCACATCCT          | AGGATGTGCT                | TTACAATTCC          | TTACAATTCC                                                                                                            | GGAATTGTAA                                                                                                                                       |
| UDP0068    | TTGTTCCGTG          | CACGGAACAA                | AACCTAGCAC          | AACCTAGCAC                                                                                                            | GTGCTAGGTT                                                                                                                                       |
| UDP0069    | AAGTACTCCA          | TGGAGTACTT                | TCTGTGTGGA          | TCTGTGTGGA                                                                                                            | TCCACACAGA                                                                                                                                       |
| UDP0070    | ACGTCAATAC          | GTATTGACGT                | GGAATTCCAA          | GGAATTCCAA                                                                                                            | TTGGAATTCC                                                                                                                                       |
| UDP0071    | GGTGTACAAG          | CTTGTAACAC                | AAGCGCGCTT          | AAGCGCGCTT                                                                                                            | AAGCGCGCTT                                                                                                                                       |
| UDP0072    | CCACCTGTGT          | ACACAGGTGG                | TGAGCGTTGT          | TGAGCGTTGT                                                                                                            | ACAACGCTCA                                                                                                                                       |
| UDP0073    | GTTCCGCAGG          | CCTGCGGAAC                | ATCATAGGCT          | ATCATAGGCT                                                                                                            | AGCCTATGAT                                                                                                                                       |
| UDP0074    | ACCTTATGAA          | TTCATAAGGT                | TGTTAGAAGG          | TGTTAGAAGG                                                                                                            | CCTTCTAACA                                                                                                                                       |
| UDP0075    | CGCTGCAGAG          | CTCTGCAGCG                | GATGGATGTA          | GATGGATGTA                                                                                                            | TACATCCATC                                                                                                                                       |
| UDP0076    | GTAGAGTCAG          | CTGACTCTAC                | ACGGCCGTCA          | ACGGCCGTCA                                                                                                            | TGACGGCCGT                                                                                                                                       |
| UDP0077    | GGATACCAGA          | TCTGGTATCC                | CGTTGCTTAC          | CGTTGCTTAC                                                                                                            | GTAAGCAACG                                                                                                                                       |
| UDP0078    | CGCACTAATG          | CATTAGTGCG                | TGACTACATA          | TGACTACATA                                                                                                            | TATGTAGTCA                                                                                                                                       |
| UDP0079    | TCCTGACCGT          | ACGGTCAGGA                | CGGCCTCGTT          | CGGCCTCGTT                                                                                                            | AACGAGGCCG                                                                                                                                       |
| UDP0080    | CTGGCTTGCC          | GGCAAGCCAG                | CAAGCATCCG          | CAAGCATCCG                                                                                                            | CGGATGCTTG                                                                                                                                       |
| UDP0081    | ACCAGCGACA          | TGTCGCTGGT                | TCGTCTGACT          | TCGTCTGACT                                                                                                            | AGTCAGACGA                                                                                                                                       |
| UDP0082    | TTGTAACGGT          | ACCGTTACAA                | CTCATAGCGA          | CTCATAGCGA                                                                                                            | TCGCTATGAG                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0083    | GTAAGGCATA          | TATGCCTTAC                | AGACACATTA          | AGACACATTA                                                                                                            | TAATGTGTCT                                                                                                                                       |
| UDP0084    | GTCCACTTGT          | ACAAGTGGAC                | GCGCGATGTT          | GCGCGATGTT                                                                                                            | AACATCGCGC                                                                                                                                       |
| UDP0085    | TTAGGTACCA          | TGGTACCTAA                | CATGAGTACT          | CATGAGTACT                                                                                                            | AGTACTCATG                                                                                                                                       |
| UDP0086    | GGAATTCCAA          | TTGGAATTCC                | ACGTCAATAC          | ACGTCAATAC                                                                                                            | GTATTGACGT                                                                                                                                       |
| UDP0087    | CATGTAGAGG          | CCTCTACATG                | GATACCTCCT          | GATACCTCCT                                                                                                            | AGGAGGTATC                                                                                                                                       |
| UDP0088    | TACACGCTCC          | GGAGCGTGTA                | ATCCGTAAGT          | ATCCGTAAGT                                                                                                            | ACTTACGGAT                                                                                                                                       |
| UDP0089    | GCTTACGGAC          | GTCCGTAAGC                | CGTGTATCTT          | CGTGTATCTT                                                                                                            | AAGATACACG                                                                                                                                       |
| UDP0090    | CGCTTGAAGT          | ACTTCAAGCG                | GAACCATGAA          | GAACCATGAA                                                                                                            | TTCATGGTTC                                                                                                                                       |
| UDP0091    | CGCCTTCTGA          | TCAGAAGGCG                | GGCCATCATA          | GGCCATCATA                                                                                                            | TATGATGGCC                                                                                                                                       |
| UDP0092    | ATACCAACGC          | GCGTTGGTAT                | ACATACTTCC          | ACATACTTCC                                                                                                            | GGAAGTATGT                                                                                                                                       |
| UDP0093    | CTGGATATGT          | ACATATCCAG                | TATGTGCAAT          | TATGTGCAAT                                                                                                            | ATTGCACATA                                                                                                                                       |
| UDP0094    | CAATCTATGA          | TCATAGATTG                | GATTAAGGTG          | GATTAAGGTG                                                                                                            | CACCTTAATC                                                                                                                                       |
| UDP0095    | GGTGGAATAC          | GTATTCCACC                | ATGTAGACAA          | ATGTAGACAA                                                                                                            | TTGTCTACAT                                                                                                                                       |
| UDP0096    | TGGACGGAGG          | CCTCCGTCCA                | CACATCGGTG          | CACATCGGTG                                                                                                            | CACCGATGTG                                                                                                                                       |

## Plate B/Set 2 Index Adapters

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0097    | CTGACCGGCA          | TGCCGGTCAG                | CCTGATACAA          | CCTGATACAA                                                                                                            | TTGTATCAGG                                                                                                                                       |
| UDP0098    | GAATTGAGTG          | CACTCAATTC                | TTAAGTTGTG          | TTAAGTTGTG                                                                                                            | CACAACCTAA                                                                                                                                       |
| UDP0099    | GCGTGTGAGA          | TCTCACACGC                | CGGACAGTGA          | CGGACAGTGA                                                                                                            | TCACTGTCCG                                                                                                                                       |
| UDP0100    | TCTCCATTGA          | TCAATGGAGA                | GCACTACAAC          | GCACTACAAC                                                                                                            | GTTGTAGTGC                                                                                                                                       |
| UDP0101    | ACATGCATAT          | ATATGCATGT                | TGGTGCCTGG          | TGGTGCCTGG                                                                                                            | CCAGGCACCA                                                                                                                                       |
| UDP0102    | CAGGCGCCAT          | ATGGCGCCTG                | TCCACGGCCT          | TCCACGGCCT                                                                                                            | AGGCCGTGGA                                                                                                                                       |
| UDP0103    | ACATAACGGA          | TCCGTTATGT                | TTGTAGTGTA          | TTGTAGTGTA                                                                                                            | TACACTACAA                                                                                                                                       |
| UDP0104    | TTAATAGACC          | GGTCTATTAA                | CCACGACACG          | CCACGACACG                                                                                                            | CGTGTCGTGG                                                                                                                                       |
| UDP0105    | ACGATTGCTG          | CAGCAATCGT                | TGTGATGTAT          | TGTGATGTAT                                                                                                            | ATACATCACA                                                                                                                                       |
| UDP0106    | TTCTACAGAA          | TTCTGTAGAA                | GAGCGCAATA          | GAGCGCAATA                                                                                                            | TATTGCGCTC                                                                                                                                       |
| UDP0107    | TATTGCGTTC          | GAACGCAATA                | ATCTTACTGT          | ATCTTACTGT                                                                                                            | ACAGTAAGAT                                                                                                                                       |
| UDP0108    | CATGAGTACT          | AGTACTCATG                | ATGTCGTGGT          | ATGTCGTGGT                                                                                                            | ACCACGACAT                                                                                                                                       |
| UDP0109    | TAATTCTACC          | GGTAGAATTA                | GTAGCCATCA          | GTAGCCATCA                                                                                                            | TGATGGCTAC                                                                                                                                       |
| UDP0110    | ACGCTAATTA          | TAATTAGCGT                | TGGTTAAGAA          | TGGTTAAGAA                                                                                                            | TTCTTAACCA                                                                                                                                       |
| UDP0111    | CCTTGTTAAT          | ATTAACAAGG                | TGTTGTTTCGT         | TGTTGTTTCGT                                                                                                           | ACGAACAACA                                                                                                                                       |
| UDP0112    | GTAGCCATCA          | TGATGGCTAC                | CCAACAACAT          | CCAACAACAT                                                                                                            | ATGTTGTTGG                                                                                                                                       |
| UDP0113    | CTTGTAATTC          | GAATTACAAG                | ACCGGCTCAG          | ACCGGCTCAG                                                                                                            | CTGAGCCGGT                                                                                                                                       |
| UDP0114    | TCCAATTCTA          | TAGAATTGGA                | GTTAATCTGA          | GTTAATCTGA                                                                                                            | TCAGATTAAC                                                                                                                                       |
| UDP0115    | AGAGCTGCCT          | AGGCAGCTCT                | CGGCTAACGT          | CGGCTAACGT                                                                                                            | ACGTTAGCCG                                                                                                                                       |
| UDP0116    | CTTCGCCGAT          | ATCGGCGAAG                | TCCAAGAATT          | TCCAAGAATT                                                                                                            | AATTCTTGGA                                                                                                                                       |
| UDP0117    | TCGGTCACGG          | CCGTGACCGA                | CCGAACGTTG          | CCGAACGTTG                                                                                                            | CAACGTTCCG                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0118    | GAACAAGTAT          | ATACTTGTTTC               | TAACCGCCGA          | TAACCGCCGA                                                                                                            | TCGGCGGTTA                                                                                                                                       |
| UDP0119    | AATTGGCGGA          | TCCGCCAATT                | CTCCGTGCTG          | CTCCGTGCTG                                                                                                            | CAGCACGGAG                                                                                                                                       |
| UDP0120    | GGCCTGTCCT          | AGGACAGGCC                | CATTCCAGCT          | CATTCCAGCT                                                                                                            | AGCTGGAATG                                                                                                                                       |
| UDP0121    | TAGGTTCTCT          | AGAGAACCTA                | GGTTATGCTA          | GGTTATGCTA                                                                                                            | TAGCATAACC                                                                                                                                       |
| UDP0122    | ACACAATATC          | GATATTGTGT                | ACCACACGGT          | ACCACACGGT                                                                                                            | ACCGTGTGGT                                                                                                                                       |
| UDP0123    | TTCCTGTACG          | CGTACAGGAA                | TAGGTTCTCT          | TAGGTTCTCT                                                                                                            | AGAGAACCTA                                                                                                                                       |
| UDP0124    | GGTAACGCAG          | CTGCGTTACC                | TATGGCTCGA          | TATGGCTCGA                                                                                                            | TCGAGCCATA                                                                                                                                       |
| UDP0125    | TCCACGGCCT          | AGGCCGTGGA                | CTCGTGCGTT          | CTCGTGCGTT                                                                                                            | AACGCACGAG                                                                                                                                       |
| UDP0126    | GATACCTCCT          | AGGAGGTATC                | CCAGTTGGCA          | CCAGTTGGCA                                                                                                            | TGCCAACTGG                                                                                                                                       |
| UDP0127    | CAACGTCAGC          | GCTGACGTTG                | TGTTTCGCATT         | TGTTTCGCATT                                                                                                           | AATGCGAACA                                                                                                                                       |
| UDP0128    | CGGTTATTAG          | CTAATAACCG                | AACCGCATCG          | AACCGCATCG                                                                                                            | CGATGCGGTT                                                                                                                                       |
| UDP0129    | CGCGCCTAGA          | TCTAGGCGCG                | CGAAGGTTAA          | CGAAGGTTAA                                                                                                            | TTAACCTTCG                                                                                                                                       |
| UDP0130    | TCTTGGCTAT          | ATAGCCAAGA                | AGTGCCACTG          | AGTGCCACTG                                                                                                            | CAGTGGCACT                                                                                                                                       |
| UDP0131    | TCACACCGAA          | TTCGGTGTGA                | GAACAAGTAT          | GAACAAGTAT                                                                                                            | ATACTTGTTTC                                                                                                                                      |
| UDP0132    | AACGTTACAT          | ATGTAACGTT                | ACGATTGCTG          | ACGATTGCTG                                                                                                            | CAGCAATCGT                                                                                                                                       |
| UDP0133    | CGGCCTCGTT          | AACGAGGCCG                | ATACCTGGAT          | ATACCTGGAT                                                                                                            | ATCCAGGTAT                                                                                                                                       |
| UDP0134    | CATAACACCA          | TGGTGTATATG               | TCCAATTCTA          | TCCAATTCTA                                                                                                            | TAGAATTGGA                                                                                                                                       |
| UDP0135    | ACAGAGGCCA          | TGGCCTCTGT                | TGAGACAGCG          | TGAGACAGCG                                                                                                            | CGCTGTCTCA                                                                                                                                       |
| UDP0136    | TGGTGCCTGG          | CCAGGCACCA                | ACGCTAATTA          | ACGCTAATTA                                                                                                            | TAATTAGCGT                                                                                                                                       |
| UDP0137    | TAGGAACCGG          | CCGGTTCCTA                | TATATTCGAG          | TATATTCGAG                                                                                                            | CTCGAATATA                                                                                                                                       |
| UDP0138    | AATATTGGCC          | GGCCAATATT                | CGGTCCGATA          | CGGTCCGATA                                                                                                            | TATCGGACCG                                                                                                                                       |
| UDP0139    | ATAGGTATTC          | GAATACCTAT                | ACAATAGAGT          | ACAATAGAGT                                                                                                            | ACTCTATTGT                                                                                                                                       |
| UDP0140    | CCTTCACGTA          | TACGTGAAGG                | CGGTTATTAG          | CGGTTATTAG                                                                                                            | CTAATAACCG                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0141    | GGCCAATAAG          | CTTATTGGCC                | GATAACAAGT          | GATAACAAGT                                                                                                            | ACTTGTTATC                                                                                                                                       |
| UDP0142    | CAGTAGTTGT          | ACAAC TACTG               | AGTTATCACA          | AGTTATCACA                                                                                                            | TGTGATAACT                                                                                                                                       |
| UDP0143    | TTCATCCAAC          | GTTGGATGAA                | TTCCAGGTAA          | TTCCAGGTAA                                                                                                            | TTACCTGGAA                                                                                                                                       |
| UDP0144    | CAATTGGATT          | AATCCAATTG                | CATGTAGAGG          | CATGTAGAGG                                                                                                            | CCTCTACATG                                                                                                                                       |
| UDP0145    | GGCCATCATA          | TATGATGGCC                | GATTGTCATA          | GATTGTCATA                                                                                                            | TATGACAATC                                                                                                                                       |
| UDP0146    | AATTGCTGCG          | CGCAGCAATT                | ATTCCGCTAT          | ATTCCGCTAT                                                                                                            | ATAGCGGAAT                                                                                                                                       |
| UDP0147    | TAAGGAACGT          | ACGTTCCCTTA               | GACCGCTGTG          | GACCGCTGTG                                                                                                            | CACAGCGGTC                                                                                                                                       |
| UDP0148    | CTATACGCGG          | CCGCGTATAG                | TAGGAACCGG          | TAGGAACCGG                                                                                                            | CCGGTTCCTA                                                                                                                                       |
| UDP0149    | ATTCAGAATC          | GATTCTGAAT                | AGCGGTGGAC          | AGCGGTGGAC                                                                                                            | GTCCACCGCT                                                                                                                                       |
| UDP0150    | GTATTCTCTA          | TAGAGAATAC                | TATAGATTCG          | TATAGATTCG                                                                                                            | CGAATCTATA                                                                                                                                       |
| UDP0151    | CCTGATACAA          | TTGTATCAGG                | ACAGAGGCCA          | ACAGAGGCCA                                                                                                            | TGGCCTCTGT                                                                                                                                       |
| UDP0152    | GACCGCTGTG          | CACAGCGGTC                | ATTCCTATTG          | ATTCCTATTG                                                                                                            | CAATAGGAAT                                                                                                                                       |
| UDP0153    | TTCAGCGTGG          | CCACGCTGAA                | TATTCCTCAG          | TATTCCTCAG                                                                                                            | CTGAGGAATA                                                                                                                                       |
| UDP0154    | AACTCCGAAC          | GTTCCGAGTT                | CGCCTTCTGA          | CGCCTTCTGA                                                                                                            | TCAGAAGGCG                                                                                                                                       |
| UDP0155    | ATTCCGCTAT          | ATAGCGGAAT                | GCGCAGAGTA          | GCGCAGAGTA                                                                                                            | TACTCTGCGC                                                                                                                                       |
| UDP0156    | TGAATATTGC          | GCAATATTCA                | GGCGCCAATT          | GGCGCCAATT                                                                                                            | AATTGGCGCC                                                                                                                                       |
| UDP0157    | CGCAATCTAG          | CTAGATTGCG                | AGATATGGCG          | AGATATGGCG                                                                                                            | CGCCATATCT                                                                                                                                       |
| UDP0158    | AACCGCATCG          | CGATGCGGTT                | CCTGCTTGGT          | CCTGCTTGGT                                                                                                            | ACCAAGCAGG                                                                                                                                       |
| UDP0159    | CTAGTCCGGA          | TCCG GACTAG               | GACGAACAAT          | GACGAACAAT                                                                                                            | ATTGTTTCGTC                                                                                                                                      |
| UDP0160    | GCTCCGTCAC          | GTGACGGAGC                | TGGCGGTCCA          | TGGCGGTCCA                                                                                                            | TGGACCGCCA                                                                                                                                       |
| UDP0161    | AGATGGAATT          | AATTCCATCT                | CTTCAGTTAC          | CTTCAGTTAC                                                                                                            | GTAAC TGAAG                                                                                                                                      |
| UDP0162    | ACACCGTTAA          | TTAACGGTGT                | TCCTGACCGT          | TCCTGACCGT                                                                                                            | ACGGTCAGGA                                                                                                                                       |
| UDP0163    | GATAACAAGT          | ACTTGTTATC                | CGCGCCTAGA          | CGCGCCTAGA                                                                                                            | TCTAGGCGCG                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0164    | CTGGTACACG          | CGTGTACCAG                | AGGATAAGTT          | AGGATAAGTT                                                                                                            | AACTTATCCT                                                                                                                                       |
| UDP0165    | CGAAGGTTAA          | TTAACCTTCG                | AGGCCAGACA          | AGGCCAGACA                                                                                                            | TGTCTGGCCT                                                                                                                                       |
| UDP0166    | ATCGCATATG          | CATATGCGAT                | CCTTGAACGG          | CCTTGAACGG                                                                                                            | CCGTTCAAGG                                                                                                                                       |
| UDP0167    | ATCATAGGCT          | AGCCTATGAT                | CACCACCTAC          | CACCACCTAC                                                                                                            | GTAGGTGGTG                                                                                                                                       |
| UDP0168    | GATTGTCATA          | TATGACAATC                | TTGCTTGTAT          | TTGCTTGTAT                                                                                                            | ATACAAGCAA                                                                                                                                       |
| UDP0169    | CCAACAACAT          | ATGTTGTTGG                | CAATCTATGA          | CAATCTATGA                                                                                                            | TCATAGATTG                                                                                                                                       |
| UDP0170    | TTGGTGGTGC          | GCACCACCAA                | TGGTACTGAT          | TGGTACTGAT                                                                                                            | ATCAGTACCA                                                                                                                                       |
| UDP0171    | GCGAACGCCT          | AGGCGTTTCG                | TTCATCCAAC          | TTCATCCAAC                                                                                                            | GTTGGATGAA                                                                                                                                       |
| UDP0172    | CAACCGGAGG          | CCTCCGGTTG                | CATAACACCA          | CATAACACCA                                                                                                            | TGGTGTATATG                                                                                                                                      |
| UDP0173    | AGCGGTGGAC          | GTCCACCGCT                | TCCTATTAGC          | TCCTATTAGC                                                                                                            | GCTAATAGGA                                                                                                                                       |
| UDP0174    | GACGAACAAT          | ATTGTTTCGTC               | TCTCTAGATT          | TCTCTAGATT                                                                                                            | AATCTAGAGA                                                                                                                                       |
| UDP0175    | CCACTGGTCC          | GGACCAGTGG                | CGCGAGCCTA          | CGCGAGCCTA                                                                                                            | TAGGCTCGCG                                                                                                                                       |
| UDP0176    | TGTTAGAAGG          | CCTTCTAACA                | GATAAGCTCT          | GATAAGCTCT                                                                                                            | AGAGCTTATC                                                                                                                                       |
| UDP0177    | TATATTCGAG          | CTCGAATATA                | GAGATGTCGA          | GAGATGTCGA                                                                                                            | TCGACATCTC                                                                                                                                       |
| UDP0178    | CGCGACGATC          | GATCGTCGCG                | CTGGATATGT          | CTGGATATGT                                                                                                            | ACATATCCAG                                                                                                                                       |
| UDP0179    | GCCTCGGATA          | TATCCGAGGC                | GGCCAATAAG          | GGCCAATAAG                                                                                                            | CTTATTGGCC                                                                                                                                       |
| UDP0180    | TGAGACAGCG          | CGCTGTCTCA                | ATTACTCACC          | ATTACTCACC                                                                                                            | GGTGAGTAAT                                                                                                                                       |
| UDP0181    | TGTTTCGCATT         | AATGCGAACA                | AATTGGCGGA          | AATTGGCGGA                                                                                                            | TCCGCCAATT                                                                                                                                       |
| UDP0182    | TCCAAGAATT          | AATTCTTGGA                | TTGTCAACTT          | TTGTCAACTT                                                                                                            | AAGTTGACAA                                                                                                                                       |
| UDP0183    | GCTGTAGGAA          | TTCCTACAGC                | GGCGAATTCT          | GGCGAATTCT                                                                                                            | AGAATTTCGCC                                                                                                                                      |
| UDP0184    | ATACCTGGAT          | ATCCAGGTAT                | CAACGTCAGC          | CAACGTCAGC                                                                                                            | GCTGACGTTG                                                                                                                                       |
| UDP0185    | GTTGGACCGT          | ACGGTCCAAC                | TCTTACATCA          | TCTTACATCA                                                                                                            | TGATGTAAGA                                                                                                                                       |
| UDP0186    | ACCAAGTTAC          | GTAACCTGGT                | CGCCATACCT          | CGCCATACCT                                                                                                            | AGGTATGGCG                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0187    | GTGTGGCGCT          | AGCGCCACAC                | CTAATGTCTT          | CTAATGTCTT                                                                                                            | AAGACATTAG                                                                                                                                       |
| UDP0188    | GGCAGTAGCA          | TGCTACTGCC                | CAACCGGAGG          | CAACCGGAGG                                                                                                            | CCTCCGGTTG                                                                                                                                       |
| UDP0189    | TGCGGTGTTG          | CAACACCGCA                | GGCAGTAGCA          | GGCAGTAGCA                                                                                                            | TGCTACTGCC                                                                                                                                       |
| UDP0190    | GATTAAGGTG          | CACCTTAATC                | TTAGGATAGA          | TTAGGATAGA                                                                                                            | TCTATCCTAA                                                                                                                                       |
| UDP0191    | CAACATTCAA          | TTGAATGTTG                | CGCAATCTAG          | CGCAATCTAG                                                                                                            | CTAGATTGCG                                                                                                                                       |
| UDP0192    | GTGTTACCGG          | CCGGTAACAC                | GAGTTGTACT          | GAGTTGTACT                                                                                                            | AGTACAACCTC                                                                                                                                      |

### Plate C/Set 3 Index Adapters

IDT for Illumina–DNA/RNA UD Indexes and IDT for Illumina–PCR UD Indexes utilize the same indexes as IDT for Illumina–Nextera DNA UD Indexes except for where a v2 index is indicated.

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0193    | TATCATGAG<br>A      | TCTCATGAT<br>A            | AACACGTGG<br>A      | AACACGTGGA                                                                                                            | TCCACGTGTT                                                                                                                                       |
| UDP0194    | CTTGGCCTC<br>G      | CGAGGCCAA<br>G            | GTGTTACCG<br>G      | GTGTTACCGG                                                                                                            | CCGGTAACAC                                                                                                                                       |
| UDP0195    | GTCTCGTGA<br>A      | TTCACGAGA<br>C            | AGATTGTTA<br>C      | AGATTGTTAC                                                                                                            | GTAACAATCT                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0196    | CCATCCACG<br>C      | GCGTGGATG<br>G            | TTGACCAAT<br>G      | TTGACCAATG                                                                                                            | CATTGGTCAA                                                                                                                                       |
| UDP0197    | ACAACCAGG<br>A      | TCCTGGTTG<br>T            | CTGACCGGC<br>A      | CTGACCGGCA                                                                                                            | TGCCGGTCAG                                                                                                                                       |
| UDP0198    | AGCAGAATT<br>A      | TAATTCTGC<br>T            | TCTCATCAA<br>T      | TCTCATCAAT                                                                                                            | ATTGATGAGA                                                                                                                                       |
| UDP0199    | CAGTCGTGC<br>G      | CGCACGACT<br>G            | GGACCAACA<br>G      | GGACCAACAG                                                                                                            | CTGTTGGTCC                                                                                                                                       |
| UDP0200    | GTCTAACCT<br>C      | GAGGTTAGA<br>C            | AATGTATTG<br>C      | AATGTATTGC                                                                                                            | GCAATACATT                                                                                                                                       |
| UDP0201    | GAATCGGT<br>T       | AACCGAGTT<br>C            | GATCTCTGG<br>A      | GATCTCTGGA                                                                                                            | TCCAGAGATC                                                                                                                                       |
| UDP0202    | AGTTATCAC<br>A      | TGTGATAAC<br>T            | CAGGCGCCA<br>T      | CAGGCGCCAT                                                                                                            | ATGGCGCCTG                                                                                                                                       |
| UDP0203    | GTAGCATAC<br>T      | AGTATGCTA<br>C            | TTAATAGAC<br>C      | TTAATAGACC                                                                                                            | GGTCTATTAA                                                                                                                                       |
| UDP0204    | CTTCAGTTA<br>C      | GTAAGTAA<br>G             | GGAGTCGCG<br>A      | GGAGTCGCGA                                                                                                            | TCGCGACTCC                                                                                                                                       |
| UDP0205    | AGTCCGAGG<br>A      | TCCTCGGAC<br>T            | AACGCCAGA<br>G      | AACGCCAGAG                                                                                                            | CTCTGGCGTT                                                                                                                                       |
| UDP0206    | ACAGTTCCA<br>G      | CTGGAAGT<br>T             | CGTAATTAA<br>C      | CGTAATTAAAC                                                                                                           | GTTAATTACG                                                                                                                                       |
| UDP0207    | CCGCATATT<br>C      | GAATATGCG<br>G            | ACGAGACTG<br>A      | ACGAGACTGA                                                                                                            | TCAGTCTCGT                                                                                                                                       |
| UDP0208    | TTATCCGAT<br>C      | GATCGGATA<br>A            | GTATCGGCC<br>G      | GTATCGGCCG                                                                                                            | CGGCCGATAC                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0209    | ATAGTCTAG<br>C      | GCTAGACTA<br>T            | AATACGACA<br>T      | AATACGACAT                                                                                                            | ATGTCGTATT                                                                                                                                       |
| UDP0210    | TATAGTAGC<br>T      | AGCTACTAT<br>A            | GTTATATGG<br>C      | GTTATATGGC                                                                                                            | GCCATATAAC                                                                                                                                       |
| UDP0211    | ACTCCGGTG<br>G      | CCACCGGAG<br>T            | GCCTGCCAT<br>G      | GCCTGCCATG                                                                                                            | CATGGCAGGC                                                                                                                                       |
| UDP0212    | GTGCGGTAA<br>G      | CTTACCGCA<br>C            | TAAGACCTA<br>T      | TAAGACCTAT                                                                                                            | ATAGGTCTTA                                                                                                                                       |
| UDP0213    | GATATCCTA<br>A      | TTAGGATAT<br>C            | TATACCATG<br>G      | TATACCATGG                                                                                                            | CCATGGTATA                                                                                                                                       |
| UDP0214    | TCGCGTATA<br>A      | TTATACGCG<br>A            | GCCGTCTGT<br>T      | GCCGTCTGTT                                                                                                            | AACAGACGGC                                                                                                                                       |
| UDP0215    | ATTCTAAGC<br>G      | CGCTTAGAA<br>T            | CAGAGTGAT<br>A      | CAGAGTGATA                                                                                                            | TATCACTCTG                                                                                                                                       |
| UDP0216    | AGCGCTTCG<br>G      | CCGAAGCGC<br>T            | TGCTAACTA<br>T      | TGCTAACTAT                                                                                                            | ATAGTTAGCA                                                                                                                                       |
| UDP0217    | GTTGATAGT<br>G      | CACTATCAA<br>C            | TCAGTTAAT<br>G      | TCAGTTAATG                                                                                                            | CATTAAGTGA                                                                                                                                       |
| UDP0218    | AATAGAGCA<br>A      | TTGCTCTAT<br>T            | GTGACCTTG<br>A      | GTGACCTTGA                                                                                                            | TCAAGGTCAC                                                                                                                                       |
| UDP0219    | CTAACTGTA<br>A      | TTACAGTTA<br>G            | ACATGCATA<br>T      | ACATGCATAT                                                                                                            | ATATGCATGT                                                                                                                                       |
| UDP0220    | GCGTACTTA<br>G      | CTAAGTACG<br>C            | AACATACCT<br>A      | AACATACCTA                                                                                                            | TAGGTATGTT                                                                                                                                       |
| UDP0221    | TACCGAACT<br>A      | TAGTTCGGT<br>A            | CCATGTGTA<br>G      | CCATGTGTAG                                                                                                            | CTACACATGG                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0222    | GTAGTAATA<br>G      | CTATTACTA<br>C            | GAGTCTCTC<br>C      | GAGTCTCTCC                                                                                                            | GGAGAGACTC                                                                                                                                       |
| UDP0223    | GGTTATGCT<br>A      | TAGCATAAC<br>C            | GCTATGCGC<br>A      | GCTATGCGCA                                                                                                            | TGCGCATAGC                                                                                                                                       |
| UDP0224    | ACAATAGAG<br>T      | ACTCTATTG<br>T            | ATCGCATAT<br>G      | ATCGCATATG                                                                                                            | CATATGCGAT                                                                                                                                       |
| UDP0225    | GCTTCCACT<br>A      | TAGTGGAAG<br>C            | AGTACCTAT<br>A      | AGTACCTATA                                                                                                            | TATAGGTACT                                                                                                                                       |
| UDP0226    | AGATATGGC<br>G      | CGCCATATC<br>T            | GACCGGAGA<br>T      | GACCGGAGAT                                                                                                            | ATCTCCGGTC                                                                                                                                       |
| UDP0227    | AATATGAAG<br>C      | GCTTCATAT<br>T            | CGTTCAGCC<br>T      | CGTTCAGCCT                                                                                                            | AGGCTGAACG                                                                                                                                       |
| UDP0228    | TAGCGCTAG<br>T      | ACTAGCGCT<br>A            | TTACTTCCT<br>C      | TTACTTCCTC                                                                                                            | GAGGAAGTAA                                                                                                                                       |
| UDP0229    | AGTTAAGAG<br>C      | GCTCTTAAC<br>T            | CACGTCCAC<br>C      | CACGTCCACC                                                                                                            | GGTGGACGTG                                                                                                                                       |
| UDP0230    | CAGATACCA<br>C      | GTGGTATCT<br>G            | GCTACTATC<br>T      | GCTACTATCT                                                                                                            | AGATAGTAGC                                                                                                                                       |
| UDP0231    | ACGGCCGTC<br>A      | TGACGGCCG<br>T            | AGTCAACCA<br>T      | AGTCAACCAT                                                                                                            | ATGGTTGACT                                                                                                                                       |
| UDP0232    | GTAATTACT<br>G      | CAGTAATTA<br>C            | CGAGGCGGT<br>A      | CGAGGCGGTA                                                                                                            | TACCGCCTCG                                                                                                                                       |
| UDP0233    | AAGTCTTGT<br>A      | TACAAGACT<br>T            | CAGGTGTTC<br>A      | CAGGTGTTCA                                                                                                            | TGAACACCTG                                                                                                                                       |
| UDP0234    | GTCACCACA<br>G      | CTGTGGTGA<br>C            | GACAGACAG<br>G      | GACAGACAGG                                                                                                            | CCTGTCTGTC                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0235    | ATTAGTGGAG          | CTCCACTAAT                | TGTACTTGT           | TGTACTTGTT                                                                                                            | AACAAGTACA                                                                                                                                       |
| UDP0236    | TGCTAACTAT          | ATAGTTAGCA                | CTCTAAGTA           | CTCTAAGTAG                                                                                                            | CTACTTAGAG                                                                                                                                       |
| UDP0237    | TAAGACCTAT          | ATAGGTCTTA                | GTCACCACA           | GTCACCACAG                                                                                                            | CTGTGGTGAC                                                                                                                                       |
| UDP0238    | TGGTTAAGAA          | TTCTTAACCA                | TCTACATAC           | TCTACATACC                                                                                                            | GGTATGTAGA                                                                                                                                       |
| UDP0239    | ACTCTTCCTT          | AAGGAAGAGT                | CACGTTAGGC          | CACGTTAGGC                                                                                                            | GCCTAACGTG                                                                                                                                       |
| UDP0240    | GTCTCCTTC           | GGAAGGAGAC                | TGGTGAGTC           | TGGTGAGTCT                                                                                                            | AGACTCACCA                                                                                                                                       |
| UDP0241    | TCCGCGTTCA          | TGAACGCGGA                | CTTCGAAGG           | CTTCGAAGGA                                                                                                            | TCCTTCGAAG                                                                                                                                       |
| UDP0242    | AGGTTGCAGG          | CCTGCAACCT                | GTAGAGTCA           | GTAGAGTCAG                                                                                                            | CTGACTCTAC                                                                                                                                       |
| UDP0243    | GAACCATGAA          | TTCATGGTT                 | GACATTGTC           | GACATTGTCA                                                                                                            | TGACAATGTC                                                                                                                                       |
| UDP0244    | TTGAGAGGAT          | ATCCTCTCA                 | TCCGCAAGG           | TCCGCAAGGC                                                                                                            | GCCTTGCGGA                                                                                                                                       |
| UDP0245    | TGGTCTAGTG          | CACTAGACCA                | ACTGCCTTA           | ACTGCCTTAT                                                                                                            | ATAAGGCAGT                                                                                                                                       |
| UDP0246    | AGTGGATAAT          | ATTATCCACT                | TACGCACGT           | TACGCACGTA                                                                                                            | TACGTGCGTA                                                                                                                                       |
| UDP0247    | GGCACGCCAT          | ATGGCGTGCC                | CGCTTGAAG           | CGCTTGAAGT                                                                                                            | ACTTCAAGCG                                                                                                                                       |

| Index Name    | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|---------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0248       | GATCTCTGG<br>A      | TCCAGAGAT<br>C            | CTGCACTTC<br>A      | CTGCACTTCA                                                                                                            | TGAAGTGCAG                                                                                                                                       |
| UDP0249       | TGCTGGACA<br>T      | ATGTCCAGC<br>A            | CAGCGGACA<br>A      | CAGCGGACAA                                                                                                            | TTGTCCGCTG                                                                                                                                       |
| UDP0250       | CCGAACGTT<br>G      | CAACGTTTCG<br>G           | GGATCCGCA<br>T      | GGATCCGCAT                                                                                                            | ATGCGGATCC                                                                                                                                       |
| UDP0251       | ATTAATACG<br>C      | GCGTATTAA<br>T            | TGCGGTGTT<br>G      | TGCGGTGTTG                                                                                                            | CAACACCGCA                                                                                                                                       |
| UDP0252V<br>2 | CCAGATTCTG<br>G     | CCGAATCTG<br>G            | ATGAATCAA<br>G      | ATGAATCAAG                                                                                                            | CTTGATTTCAT                                                                                                                                      |
| UDP0252       | TAGTCACAA<br>C      | GTTGTGACT<br>A            | ACATAACGG<br>A      | ACATAACGGA                                                                                                            | TCCGTTATGT                                                                                                                                       |
| UDP0253       | GGTATTGAG<br>A      | TCTCAATAC<br>C            | GACGTTTCG<br>G      | GACGTTTCGG                                                                                                            | CGCGAACGTC                                                                                                                                       |
| UDP0254       | CAAGATGCT<br>T      | AAGCATCTT<br>G            | CATTCAACA<br>A      | CATTCAACAA                                                                                                            | TTGTTGAATG                                                                                                                                       |
| UDP0255       | ACGAGACTG<br>A      | TCAGTCTCG<br>T            | CACGGATTA<br>T      | CACGGATTAT                                                                                                            | ATAATCCGTG                                                                                                                                       |
| UDP0256       | TTATCTTGC<br>A      | TGCAAGATA<br>A            | TTGAGGACG<br>G      | TTGAGGACGG                                                                                                            | CCGTCCTCAA                                                                                                                                       |
| UDP0257       | AGATTGTTA<br>C      | GTAACAATC<br>T            | CTCTGTATA<br>C      | CTCTGTATAC                                                                                                            | GTATACAGAG                                                                                                                                       |
| UDP0258V<br>2 | TATACCATG<br>G      | CCATGGTAT<br>A            | TCTCGCGGA<br>G      | TCTCGCGGAG                                                                                                            | CTCCGCGAGA                                                                                                                                       |
| UDP0258       | TCTACCGCT<br>G      | CAGCGGTAG<br>A            | GCAACAGGT<br>G      | GCAACAGGTG                                                                                                            | CACCTGTTGC                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0259    | AACGGTATG<br>A      | TCATACCGT<br>T            | GGTAACGCA<br>G      | GGTAACGCAG                                                                                                            | CTGCGTTACC                                                                                                                                       |
| UDP0260    | CAATGGCGC<br>C      | GGCGCCATT<br>G            | ACCGCGCAA<br>T      | ACCGCGCAAT                                                                                                            | ATTGCGCGGT                                                                                                                                       |
| UDP0261    | CTAATTCGC<br>T      | AGCGAATTA<br>G            | AGCCGGAAC<br>A      | AGCCGGAACA                                                                                                            | TGTTCCGGCT                                                                                                                                       |
| UDP0262    | CATGGTCTA<br>A      | TTAGACCAT<br>G            | TCCTAGGAA<br>G      | TCCTAGGAAG                                                                                                            | CTTCCTAGGA                                                                                                                                       |
| UDP0263    | ATACTGTGT<br>G      | CACACAGTA<br>T            | TTGAGCCTA<br>A      | TTGAGCCTAA                                                                                                            | TTAGGCTCAA                                                                                                                                       |
| UDP0264    | GCCGACAAG<br>A      | TCTTGTCGG<br>C            | CCACCTGTG<br>T      | CCACCTGTGT                                                                                                            | ACACAGGTGG                                                                                                                                       |
| UDP0265    | CGAGGCGGT<br>A      | TACCGCCTC<br>G            | CCTCGCAAC<br>C      | CCTCGCAACC                                                                                                            | GGTTGCGAGG                                                                                                                                       |
| UDP0266    | GATATAACA<br>G      | CTGTTATAT<br>C            | GTATAGCTG<br>T      | GTATAGCTGT                                                                                                            | ACAGCTATAC                                                                                                                                       |
| UDP0267    | TCGCCGGTT<br>A      | TAACCGGCG<br>A            | GCTACATTA<br>G      | GCTACATTAG                                                                                                            | CTAATGTAGC                                                                                                                                       |
| UDP0268    | AGACTCTCT<br>T      | AAGAGAGTC<br>T            | TACGAATCT<br>T      | TACGAATCTT                                                                                                            | AAGATTCGTA                                                                                                                                       |
| UDP0269    | GCTCGCCTA<br>C      | GTAGGCGAG<br>C            | TAGGAGCGC<br>A      | TAGGAGCGCA                                                                                                            | TGCGCTCCTA                                                                                                                                       |
| UDP0270    | AGGATAAGT<br>T      | AACTTATCC<br>T            | GTACTGGCG<br>T      | GTACTGGCGT                                                                                                            | ACGCCAGTAC                                                                                                                                       |
| UDP0271    | GAGACATAA<br>T      | ATTATGTCT<br>C            | AGTTAAGAG<br>C      | AGTTAAGAGC                                                                                                            | GCTCTTAACT                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0272    | AGCTGTTAT<br>A      | TATAACAGC<br>T            | TCGCGTATA<br>A      | TCGCGTATAA                                                                                                            | TTATACGCGA                                                                                                                                       |
| UDP0273    | GTATCATTG<br>G      | CCAATGATA<br>C            | GAGTGTGCC<br>G      | GAGTGTGCCG                                                                                                            | CGGCACACTC                                                                                                                                       |
| UDP0274    | AATAGGCCT<br>C      | GAGGCCTAT<br>T            | CTAGTCCGG<br>A      | CTAGTCCGGA                                                                                                            | TCCGGACTAG                                                                                                                                       |
| UDP0275    | CCGCTTAGC<br>T      | AGCTAAGCG<br>G            | ATTAATACG<br>C      | ATTAATACGC                                                                                                            | GCGTATTAAT                                                                                                                                       |
| UDP0276    | TCCTAGGAA<br>G      | CTTCCTAGG<br>A            | CCTAGAGTA<br>T      | CCTAGAGTAT                                                                                                            | ATACTCTAGG                                                                                                                                       |
| UDP0277    | TCACAGATC<br>G      | CGATCTGTG<br>A            | TAGGAAGAC<br>T      | TAGGAAGACT                                                                                                            | AGTCTTCCTA                                                                                                                                       |
| UDP0278    | ACTTGTCCA<br>C      | GTGGACAAG<br>T            | CCGTGGCCT<br>T      | CCGTGGCCTT                                                                                                            | AAGGCCACGG                                                                                                                                       |
| UDP0279    | TGTACTTGT<br>T      | AACAAGTAC<br>A            | GGATATATC<br>C      | GGATATATCC                                                                                                            | GGATATATCC                                                                                                                                       |
| UDP0280    | CACTTAATC<br>T      | AGATTAAGT<br>G            | CACCTCTTG<br>G      | CACCTCTTGG                                                                                                            | CCAAGAGGTG                                                                                                                                       |
| UDP0281    | CAGAGTGAT<br>A      | TATCACTCT<br>G            | AACGTTACA<br>T      | AACGTTACAT                                                                                                            | ATGTAACGTT                                                                                                                                       |
| UDP0282    | GGCGAATTC<br>T      | AGAATTCGC<br>C            | CGGCAAGCT<br>C      | CGGCAAGCTC                                                                                                            | GAGCTTGCCG                                                                                                                                       |
| UDP0283    | AGTGGTCAG<br>G      | CCTGACCAC<br>T            | TCTTGGCTA<br>T      | TCTTGGCTAT                                                                                                            | ATAGCCAAGA                                                                                                                                       |
| UDP0284    | CATTCCAGC<br>T      | AGCTGGAAT<br>G            | ACGGAATGC<br>G      | ACGGAATGCG                                                                                                            | CGCATTCCGT                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0285    | CTCGTTATC<br>A      | TGATAACGA<br>G            | GTTCCGCAG<br>G      | GTTCCGCAGG                                                                                                               | CCTGCGGAAC                                                                                                                                          |
| UDP0286    | CCTTACTAT<br>G      | CATAGTAAG<br>G            | ACCAAGTTA<br>C      | ACCAAGTTAC                                                                                                               | GTAAGTTGGT                                                                                                                                          |
| UDP0287    | AGAAGCCAA<br>T      | ATTGGCTTC<br>T            | TGGCTCGCA<br>G      | TGGCTCGCAG                                                                                                               | CTGCGAGCCA                                                                                                                                          |
| UDP0288    | TAATCGGTA<br>C      | GTACCGATT<br>A            | AACTAACGT<br>T      | AACTAACGTT                                                                                                               | AACGTTAGTT                                                                                                                                          |

### Plate D/Set 4 Index Adapters

IDT for Illumina–DNA/RNA UD Indexes and IDT for Illumina–PCR Indexes utilize the same indexes as IDT for Illumina–Nextera DNA UD Indexes except for where a v2 index is indicated.

| Index Name    | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|---------------|---------------------|---------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0289V<br>2 | GCTACTATC<br>T      | AGATAGTAG<br>C            | GGCACGCCA<br>T      | GGCACGCCAT                                                                                                               | ATGGCGTGCC                                                                                                                                          |
| UDP0289       | GGAATTGTT<br>C      | GAACAATTC<br>C            | TAGAGTTGG<br>A      | TAGAGTTGGA                                                                                                               | ATCTCAACCT                                                                                                                                          |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0290V2  | GTCTTCTAA<br>T      | ATTAGAAGA<br>C            | GCAGGCTGG<br>A      | GCAGGCTGGA                                                                                                            | TCCAGCCTGC                                                                                                                                       |
| UDP0290    | CCGGACCAC<br>A      | TGTGGTCCG<br>G            | AGAGCACTA<br>G      | AGAGCACTAG                                                                                                            | TCTCGTGATC                                                                                                                                       |
| UDP0291V2  | ATGTGCGAG<br>C      | GCTCGCACA<br>T            | ATGGCTTAA<br>T      | ATGGCTTAAT                                                                                                            | ATTAAGCCAT                                                                                                                                       |
| UDP0291    | GACTTAGAA<br>G      | CTTCTAAGT<br>C            | ACTCTACAG<br>G      | ACTCTACAGG                                                                                                            | TGAGATGTCC                                                                                                                                       |
| UDP0292    | TGGCAATAT<br>T      | AATATTGCC<br>A            | CGGTGACAC<br>C      | CGGTGACACC                                                                                                            | GGTGTACCCG                                                                                                                                       |
| UDP0293    | GAATGCACG<br>A      | TCGTGCATT<br>C            | GCGTTGGTA<br>T      | GCGTTGGTAT                                                                                                            | ATACCAACGC                                                                                                                                       |
| UDP0294    | CGTGTATCT<br>T      | AAGATACAC<br>G            | TGTGCTAAC<br>A      | TGTGCTAACA                                                                                                            | TGTTAGCACA                                                                                                                                       |
| UDP0295    | ATTCAATTGC<br>A     | TGCAATGAA<br>T            | CCAGAAGTA<br>A      | CCAGAAGTAA                                                                                                            | TTACTTCTGG                                                                                                                                       |
| UDP0296    | TCCTTCATA<br>G      | CTATGAAGG<br>A            | CTTATACCT<br>G      | CTTATACCTG                                                                                                            | CAGGTATAAG                                                                                                                                       |
| UDP0297    | TCTAGTCTT<br>C      | GAAGACTAG<br>A            | ACTAGAACT<br>T      | ACTAGAACTT                                                                                                            | AAGTTCTAGT                                                                                                                                       |
| UDP0298    | CTCGACTCC<br>T      | AGGAGTCGA<br>G            | TTAGGCTTA<br>C      | TTAGGCTTAC                                                                                                            | GTAAGCCTAA                                                                                                                                       |
| UDP0299    | AGTGAGTGA<br>A      | TTCACTCAC<br>T            | TATCATGAG<br>A      | TATCATGAGA                                                                                                            | TCTCATGATA                                                                                                                                       |
| UDP0300    | GAAGCGGAC<br>C      | GGTCCGCTT<br>C            | CTCACACAA<br>G      | CTCACACAAG                                                                                                            | CTTGTGTGAG                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0301V2  | CAAGCCACTA          | TAGTGGCTTG                | AGTTACTTGG          | AGTTACTTGG                                                                                                            | CCAAGTAACT                                                                                                                                       |
| UDP0301    | GCTCTCGTTG          | CAACGAGAGC                | GAATTGAGTG          | GAATTGAGTG                                                                                                            | CTTAACTCAC                                                                                                                                       |
| UDP0302    | GGACCTCAAT          | ATTGAGGTC                 | CGGATTATAT          | CGGATTATAT                                                                                                            | ATATAATCCG                                                                                                                                       |
| UDP0303    | GAGTCTCTCC          | GGAGAGACTC                | TTGAAGCAG           | TTGAAGCAGA                                                                                                            | TCTGCTTCAA                                                                                                                                       |
| UDP0304    | AACGGAGCGG          | CCGCTCCGT                 | TACGGCGAA           | TACGGCGAAG                                                                                                            | CTTCGCCGTA                                                                                                                                       |
| UDP0305    | TGTGATGTAT          | ATACATCAC                 | TCTCCATTG           | TCTCCATTGA                                                                                                            | TCAATGGAGA                                                                                                                                       |
| UDP0306    | AACATACCTA          | TAGGTATGT                 | CGAGACCAA           | CGAGACCAAG                                                                                                            | CTTGGTCTCG                                                                                                                                       |
| UDP0307    | GTGCTAGGTG          | CACCTAGCA                 | TGCTGGACA           | TGCTGGACAT                                                                                                            | ATGTCCAGCA                                                                                                                                       |
| UDP0308    | CATACTTGA           | TTCAAGTAT                 | GATGGTATC           | GATGGTATCG                                                                                                            | CGATACCATC                                                                                                                                       |
| UDP0309    | CTTGTCTTAA          | TTAAGACAA                 | GGCTTAATT           | GGCTTAATTG                                                                                                            | CAATTAAGCC                                                                                                                                       |
| UDP0310    | AAGAGAGGTG          | CACCTCTCT                 | CTCGACTCC           | CTCGACTCCT                                                                                                            | AGGAGTCGAG                                                                                                                                       |
| UDP0311    | TGCACGAGAA          | TTCTCGTGC                 | ATACACAGA           | ATACACAGAG                                                                                                            | CTCTGTGTAT                                                                                                                                       |
| UDP0312    | ACTTCCTAGC          | GCTAGGAAG                 | TCTCGGACG           | TCTCGGACGA                                                                                                            | TCGTCCGAGA                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0313    | GTGCTATTA<br>A      | TTAATAGCA<br>C            | ACCACGTCT<br>G      | ACCACGTCTG                                                                                                            | CAGACGTGGT                                                                                                                                       |
| UDP0314    | AGCGTGAAT<br>G      | CATTCACGC<br>T            | GTTGTACTC<br>A      | GTTGTACTCA                                                                                                            | TGAGTACAAC                                                                                                                                       |
| UDP0315    | CCTTAGTGC<br>C      | GGCACTAAG<br>G            | TCAGGTCAA<br>C      | TCAGGTCAAC                                                                                                            | GTTGACCTGA                                                                                                                                       |
| UDP0316    | TGTACCGAA<br>T      | ATTCGGTAC<br>A            | AGTCCGAGG<br>A      | AGTCCGAGGA                                                                                                            | TCCTCGGACT                                                                                                                                       |
| UDP0317    | GGAGATTAG<br>T      | ACTAATCTC<br>C            | CACTTAATC<br>T      | CACTTAATCT                                                                                                            | AGATTAAGTG                                                                                                                                       |
| UDP0318    | TACTAACAC<br>A      | TGTGTTAGT<br>A            | TACTCTGTT<br>A      | TACTCTGTTA                                                                                                            | TAACAGAGTA                                                                                                                                       |
| UDP0319    | TAGGTCGTT<br>G      | CAACGACCT<br>A            | GCGACTCGA<br>T      | GCGACTCGAT                                                                                                            | ATCGAGTCGC                                                                                                                                       |
| UDP0320    | ATGCCGACC<br>G      | CGGTCGGCA<br>T            | CTAGGCAAG<br>G      | CTAGGCAAGG                                                                                                            | CCTTGCCTAG                                                                                                                                       |
| UDP0321    | CTAGCGTCG<br>A      | TCGACGCTA<br>G            | CCTCTTCGA<br>A      | CCTCTTCGAA                                                                                                            | TTCGAAGAGG                                                                                                                                       |
| UDP0322    | TGCCTACGA<br>G      | CTCGTAGGC<br>A            | TCATCCTCT<br>T      | TCATCCTCTT                                                                                                            | AAGAGGATGA                                                                                                                                       |
| UDP0323    | ACTAGAACT<br>T      | AAGTTCTAG<br>T            | GGTAAGATA<br>A      | GGTAAGATAA                                                                                                            | TTATCTTACC                                                                                                                                       |
| UDP0324    | CACCTCTTG<br>G      | CCAAGAGGT<br>G            | AACGAGCCA<br>G      | AACGAGCCAG                                                                                                            | CTGGCTCGTT                                                                                                                                       |
| UDP0325    | AAGCAGATA<br>T      | ATATCTGCT<br>T            | TAGACAATC<br>T      | TAGACAATCT                                                                                                            | AGATTGTCTA                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0326    | GCCAGATCC<br>A      | TGGATCTGG<br>C            | CAATGCTGA<br>A      | CAATGCTGAA                                                                                                            | TTCAGCATTG                                                                                                                                       |
| UDP0327    | TTGGATTCA<br>A      | TTGAATCCA<br>A            | GTCACGGTG<br>T      | GTCACGGTGT                                                                                                            | ACACCGTGAC                                                                                                                                       |
| UDP0328    | ACTAGCCGT<br>G      | CACGGCTAG<br>T            | GGTGTACAA<br>G      | GGTGTACAAG                                                                                                            | CTTGTACACC                                                                                                                                       |
| UDP0329    | CGGCAAGCT<br>C      | GAGCTTGCC<br>G            | AGGTTGCAG<br>G      | AGGTTGCAGG                                                                                                            | CCTGCAACCT                                                                                                                                       |
| UDP0330    | GAAGCTAGC<br>T      | AGCTAGCTT<br>C            | TAATACGGA<br>G      | TAATACGGAG                                                                                                            | CTCCGTATTA                                                                                                                                       |
| UDP0331    | ACAAGGATT<br>G      | CAATCCTTG<br>T            | CGAAGACGC<br>A      | CGAAGACGCA                                                                                                            | TGCGTCTTCG                                                                                                                                       |
| UDP0332    | GCAACAGGT<br>G      | CACCTGTTG<br>C            | ATTGACACA<br>T      | ATTGACACAT                                                                                                            | ATGTGTCAAT                                                                                                                                       |
| UDP0333    | CAAGGTGAC<br>G      | CGTCACCTT<br>G            | CAGCCGATT<br>G      | CAGCCGATTG                                                                                                            | CAATCGGCTG                                                                                                                                       |
| UDP0334    | ACCAGTCAT<br>T      | AATGACTGG<br>T            | TCTCACGCG<br>T      | TCTCACGCGT                                                                                                            | ACGCGTGAGA                                                                                                                                       |
| UDP0335    | CCGGAATCA<br>T      | ATGATTCCG<br>G            | CTCTGACGT<br>G      | CTCTGACGTG                                                                                                            | CACGTCAGAG                                                                                                                                       |
| UDP0336    | TTGAGCCTA<br>A      | TTAGGCTCA<br>A            | TCGAATGGA<br>A      | TCGAATGGAA                                                                                                            | TTCCATTCTGA                                                                                                                                      |
| UDP0337    | CCACCTTAC<br>A      | TGTAAGGTG<br>G            | AAGGCCTTG<br>G      | AAGGCCTTGG                                                                                                            | CCAAGGCCTT                                                                                                                                       |
| UDP0338    | GTTGCAGTT<br>G      | CAACTGCAA<br>C            | TGAACGCAA<br>C      | TGAACGCAAC                                                                                                            | GTTGCGTTCA                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0339    | TCCTCATG<br>T       | ACATGAGTG<br>A            | CCGCTTAGC<br>T      | CCGCTTAGCT                                                                                                            | AGCTAAGCGG                                                                                                                                       |
| UDP0340    | GACTGGTTG<br>C      | GCAACCAGT<br>C            | CACCGAGGA<br>A      | CACCGAGGAA                                                                                                            | TTCCTCGGTG                                                                                                                                       |
| UDP0341    | ATCGTCGCT<br>C      | GAGCGACGA<br>T            | CGTATAATC<br>A      | CGTATAATCA                                                                                                            | TGATTATACG                                                                                                                                       |
| UDP0342    | GGTGCGTTC<br>G      | CGAACGCAC<br>C            | ATGACAGAA<br>C      | ATGACAGAAC                                                                                                            | GTTCTGTCAT                                                                                                                                       |
| UDP0343    | CGGCGTAAG<br>A      | TCTTACGCC<br>G            | ATTCATTGC<br>A      | ATTCATTGCA                                                                                                            | TGCAATGAAT                                                                                                                                       |
| UDP0344    | GACATCAGC<br>T      | AGCTGATGT<br>C            | TCATGTCCT<br>G      | TCATGTCCTG                                                                                                            | CAGGACATGA                                                                                                                                       |
| UDP0345    | ACTAATTCA<br>G      | CTGAATTAG<br>T            | AATTCGATC<br>G      | AATTCGATCG                                                                                                            | CGATCGAATT                                                                                                                                       |
| UDP0346    | TTCCTCCTT<br>A      | TAAGGAGGA<br>A            | TTCCGACAT<br>T      | TTCCGACATT                                                                                                            | AATGTCGGAA                                                                                                                                       |
| UDP0347    | TGTGTAAGC<br>T      | AGCTTACAC<br>A            | TGGCACGAC<br>C      | TGGCACGACC                                                                                                            | GGTCGTGCCA                                                                                                                                       |
| UDP0348    | GTGGCTGGT<br>T      | AACCAGCCA<br>C            | GCCACAGCA<br>C      | GCCACAGCAC                                                                                                            | GTGCTGTGGC                                                                                                                                       |
| UDP0349    | TCGACTTAA<br>G      | CTTAAGTCG<br>A            | CAGTAGTTG<br>T      | CAGTAGTTGT                                                                                                            | ACAACACTG                                                                                                                                        |
| UDP0350    | CACGTTAGG<br>C      | GCCTAACGT<br>G            | AGCTCTCAA<br>G      | AGCTCTCAAG                                                                                                            | CTTGAGAGCT                                                                                                                                       |
| UDP0351    | TGAAGTAAG<br>T      | ACTTACTTC<br>A            | TCTGGAATT<br>A      | TCTGGAATTA                                                                                                            | TAATTCCAGA                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0352    | ACGGAATGC<br>G      | CGCATTCCTG<br>T           | ATTAGTGGA<br>G      | ATTAGTGGAG                                                                                                            | CTCCACTAAT                                                                                                                                       |
| UDP0353    | GTGTGATAT<br>C      | GATATCACA<br>C            | GACTATATG<br>T      | GACTATATGT                                                                                                            | ACATATAGTC                                                                                                                                       |
| UDP0354    | ACACAGCGC<br>T      | AGCGCTGTG<br>T            | CGTTCGGAA<br>C      | CGTTCGGAAC                                                                                                            | GTTCCGAACG                                                                                                                                       |
| UDP0355    | AGCGCGGTG<br>A      | TCACCGCGC<br>T            | TCGATACTA<br>G      | TCGATACTAG                                                                                                            | CTAGTATCGA                                                                                                                                       |
| UDP0356    | CAAGGCTAT<br>C      | GATAGCCTT<br>G            | TACCACAAT<br>G      | TACCACAATG                                                                                                            | CATTGTGGTA                                                                                                                                       |
| UDP0357    | TGCGTCCAG<br>G      | CCTGGACGC<br>A            | TGGTATACC<br>A      | TGGTATACCA                                                                                                            | TGGTATACCA                                                                                                                                       |
| UDP0358    | AGGTGCGTA<br>A      | TTACGCACC<br>T            | GCTCTCGTT<br>G      | GCTCTCGTTG                                                                                                            | CAACGAGAGC                                                                                                                                       |
| UDP0359    | GCAGCAACG<br>A      | TCGTTGCTG<br>C            | GTCTCGTGA<br>A      | GTCTCGTGAA                                                                                                            | TTCACGAGAC                                                                                                                                       |
| UDP0360    | ATCCTTGTC<br>G      | CGACAAGGA<br>T            | AAGGCCACC<br>T      | AAGGCCACCT                                                                                                            | AGGTGGCCTT                                                                                                                                       |
| UDP0361    | GAAGGTACA<br>C      | GTGTACCTT<br>C            | CTGTGAGCT<br>A      | CTGTGAGCTA                                                                                                            | TAGCTCACAG                                                                                                                                       |
| UDP0362    | TTGGCCAGG<br>T      | ACCTGGCCA<br>A            | TCACAGATC<br>G      | TCACAGATCG                                                                                                            | CGATCTGTGA                                                                                                                                       |
| UDP0363    | AGGCCAGAC<br>A      | TGTCTGGCC<br>T            | AGAAGCCAA<br>T      | AGAAGCCAAT                                                                                                            | ATTGGCTTCT                                                                                                                                       |
| UDP0364    | AGCATTAAC<br>T      | AGTTAATGC<br>T            | ACTGCAGCC<br>G      | ACTGCAGCCG                                                                                                            | CGGCTGCAGT                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0365    | ATTACTCAC<br>C      | GGTGAGTAA<br>T            | AACATCTAG<br>T      | AACATCTAGT                                                                                                            | ACTAGATGTT                                                                                                                                       |
| UDP0366    | GCGCAGAGT<br>A      | TACTCTGCG<br>C            | CCTTACTAT<br>G      | CCTTACTATG                                                                                                            | CATAGTAAGG                                                                                                                                       |
| UDP0367    | CGCCATACC<br>T      | AGGTATGGC<br>G            | GTGGCGAGA<br>C      | GTGGCGAGAC                                                                                                            | GTCTCGCCAC                                                                                                                                       |
| UDP0368    | GCAGGCTGG<br>A      | TCCAGCCTG<br>C            | GCCAGATCC<br>A      | GCCAGATCCA                                                                                                            | TGGATCTGGC                                                                                                                                       |
| UDP0369    | GTTATATGG<br>C      | GCCATATAA<br>C            | ACACAATAT<br>C      | ACACAATATC                                                                                                            | GATATTGTGT                                                                                                                                       |
| UDP0370    | CACTCGCAC<br>T      | AGTGCGAGT<br>G            | TGGAGGTAA<br>T      | TGGAGGTAAT                                                                                                            | ATTACCTCCA                                                                                                                                       |
| UDP0371    | ACCGGCTCA<br>G      | CTGAGCCGG<br>T            | CCTTCACGT<br>A      | CCTTCACGTA                                                                                                            | TACGTGAAGG                                                                                                                                       |
| UDP0372    | ATAGACCGT<br>T      | AACGGTCTA<br>T            | CTATACGCG<br>G      | CTATACGCGG                                                                                                            | CCGCGTATAG                                                                                                                                       |
| UDP0373    | TGAACGCAA<br>C      | GTTGCGTTC<br>A            | GTTGCAGTT<br>G      | GTTGCAGTTG                                                                                                            | CAACTGCAAC                                                                                                                                       |
| UDP0374    | GTGGTTGAA<br>G      | CTTCAACCA<br>C            | TTATGCGCC<br>T      | TTATGCGCCT                                                                                                            | AGGCGCATAA                                                                                                                                       |
| UDP0375    | ACTGAATAG<br>A      | TCTATTCAG<br>T            | TCTCAGTAC<br>A      | TCTCAGTACA                                                                                                            | TGTACTGAGA                                                                                                                                       |
| UDP0376    | GGACGTCTT<br>G      | CAAGACGTC<br>C            | AGTATACGG<br>A      | AGTATACGGA                                                                                                            | TCCGTATACT                                                                                                                                       |
| UDP0377    | GTTGTACTC<br>A      | TGAGTACAA<br>C            | ACGCTTGGA<br>C      | ACGCTTGAC                                                                                                             | GTCCAAGCGT                                                                                                                                       |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDP0378    | AGAACCGCG<br>G      | CCGCGGTTC<br>T            | GGAGTAGAT<br>T      | GGAGTAGATT                                                                                                            | AATCTACTCC                                                                                                                                       |
| UDP0379    | CAGTATCAA<br>T      | ATTGATACT<br>G            | TACACGCTC<br>C      | TACACGCTCC                                                                                                            | GGAGCGTGTA                                                                                                                                       |
| UDP0380    | TCCATAATC<br>C      | GGATTATGG<br>A            | TCCGATAGA<br>G      | TCCGATAGAG                                                                                                            | CTCTATCGGA                                                                                                                                       |
| UDP0381    | ATGAGAACC<br>A      | TGGTTCTCA<br>T            | CTCAAGGCC<br>G      | CTCAAGGCCG                                                                                                            | CGGCCTTGAG                                                                                                                                       |
| UDP0382    | TCGTGGTTG<br>A      | TCAACCACG<br>A            | CAAGTTCAT<br>A      | CAAGTTCATA                                                                                                            | TATGAACTTG                                                                                                                                       |
| UDP0383    | CAAGTTCAT<br>A      | TATGAACTT<br>G            | AATCCTTAG<br>G      | AATCCTTAGG                                                                                                            | CCTAAGGATT                                                                                                                                       |
| UDP0384    | CTTAACCAC<br>T      | AGTGGTTAA<br>G            | GGTGAATA<br>C       | GGTGAATAC                                                                                                             | GTATTCCACC                                                                                                                                       |

## Nextera DNA Indexes

### Index 1 (i7) Adapters

The i7 index names vary by kit:

- H7xx—Nextera DNA CD Indexes (combinatorial dual)
- N7xx—Nextera XT Index Kit v2, Nextera Index Kit

| i7 Index Name | Bases in Adapter | i7 Bases for Sample Sheet |
|---------------|------------------|---------------------------|
| [H/N]701      | TCGCCTTA         | TAAGGCGA                  |
| [H/N]702      | CTAGTACG         | CGTACTAG                  |

| i7 Index Name | Bases in Adapter | i7 Bases for Sample Sheet |
|---------------|------------------|---------------------------|
| [H/N]703      | TTCTGCCT         | AGGCAGAA                  |
| [H/N]704      | GCTCAGGA         | TCCTGAGC                  |
| [H/N]705      | AGGAGTCC         | GGACTCCT                  |
| [H/N]706      | CATGCCTA         | TAGGCATG                  |
| [H/N]707      | GTAGAGAG         | CTCTCTAC                  |
| [H/N]708      | CCTCTCTG         | CAGAGAGG                  |
| [H/N]709      | AGCGTAGC         | GCTACGCT                  |
| [H/N]710      | CAGCCTCG         | CGAGGCTG                  |
| [H/N]711      | TGCCTCTT         | AAGAGGCA                  |
| [H/N]712      | TCCTCTAC         | GTAGAGGA                  |
| [H/N]714      | TCATGAGC         | GCTCATGA                  |
| [H/N]715      | CCTGAGAT         | ATCTCAGG                  |
| [H/N]716      | TAGCGAGT         | ACTCGCTA                  |
| [H/N]718      | GTAGCTCC         | GGAGCTAC                  |
| [H/N]719      | TACTACGC         | GCGTAGTA                  |
| [H/N]720      | AGGCTCCG         | CGGAGCCT                  |
| [H/N]721      | GCAGCGTA         | TACGCTGC                  |
| [H/N]722      | CTGCGCAT         | ATGCGCAG                  |
| [H/N]723      | GAGCGCTA         | TAGCGCTC                  |
| [H/N]724      | CGCTCAGT         | ACTGAGCG                  |
| [H/N]726      | GTCTTAGG         | CCTAAGAC                  |
| [H/N]727      | ACTGATCG         | CGATCAGT                  |
| [H/N]728      | TAGCTGCA         | TGCAGCTA                  |
| [H/N]729      | GACGTCTGA        | TCGACGTC                  |

## Index 2 (i5) Adapters

The i5 index names vary by kit:

- E5xx—Nextera Rapid Capture Custom Enrichment Kit
- H5xx—Nextera DNA CD Indexes (combinatorial dual)
- N5xx—Nextera Index Kit
- S5xx—Nextera XT Index Kit v2

| i5 Index Name | Bases in Adapter | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0<br>reagent kits, MiSeq,<br>HiSeq 2000/2500,<br>NextSeq 2000 (Sample<br>Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with<br>v1.5 reagent kits, MiniSeq,<br>NextSeq 500/550,<br>HiSeq 3000/4000/X,<br>NextSeq 2000 (Sample<br>Sheet v1) |
|---------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [E/H/N/S]501  | TAGATCGC         | TAGATCGC                                                                                                                             | GCGATCTA                                                                                                                                                           |
| [E/H/N/S]502  | CTCTCTAT         | CTCTCTAT                                                                                                                             | ATAGAGAG                                                                                                                                                           |
| [E/H/N/S]503  | TATCCTCT         | TATCCTCT                                                                                                                             | AGAGGATA                                                                                                                                                           |
| [E/H/N/S]504  | AGAGTAGA         | AGAGTAGA                                                                                                                             | TCTACTCT                                                                                                                                                           |
| [E/H/N/S]505  | GTAAGGAG         | GTAAGGAG                                                                                                                             | CTCCTTAC                                                                                                                                                           |
| [E/H/N/S]506  | ACTGCATA         | ACTGCATA                                                                                                                             | TATGCAGT                                                                                                                                                           |
| [E/H/N/S]507  | AAGGAGTA         | AAGGAGTA                                                                                                                             | TACTCCTT                                                                                                                                                           |
| [E/H/N/S]508  | CTAAGCCT         | CTAAGCCT                                                                                                                             | AGGCTTAG                                                                                                                                                           |
| [E/H/N/S]510  | CGTCTAAT         | CGTCTAAT                                                                                                                             | ATTAGACG                                                                                                                                                           |
| [E/H/N/S]511  | TCTCTCCG         | TCTCTCCG                                                                                                                             | CGGAGAGA                                                                                                                                                           |
| [E/H/N/S]513  | TCGACTAG         | TCGACTAG                                                                                                                             | CTAGTCGA                                                                                                                                                           |
| [E/H/N/S]515  | TTCTAGCT         | TTCTAGCT                                                                                                                             | AGCTAGAA                                                                                                                                                           |
| [E/H/N/S]516  | CCTAGAGT         | CCTAGAGT                                                                                                                             | ACTCTAGG                                                                                                                                                           |
| [E/H/N/S]517  | GCGTAAGA         | GCGTAAGA                                                                                                                             | TCTTACGC                                                                                                                                                           |
| [E/H/N/S]518  | CTATTAAG         | CTATTAAG                                                                                                                             | CTTAATAG                                                                                                                                                           |
| [E/H/N/S]520  | AAGGCTAT         | AAGGCTAT                                                                                                                             | ATAGCCTT                                                                                                                                                           |
| [E/H/N/S]521  | GAGCCTTA         | GAGCCTTA                                                                                                                             | TAAGGCTC                                                                                                                                                           |
| [E/H/N/S]522  | TTATGCGA         | TTATGCGA                                                                                                                             | TCGCATAA                                                                                                                                                           |

# Sequences for AmpliSeq for Illumina Panels

These CD and UD index adapters are arranged in the plate to enforce the recommended pairing strategy.

## Adapter Trimming

The following sequence is used for Read 1 and Read 2 adapter trimming.

CTGTCTCTTATACACATCT

## Index 1 (i7) Adapters

CAAGCAGAAGACGGCATACGAGAT [ i 7 ] GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| Q7005         | GTGAATAT                  |
| Q7006         | ACAGGCGC                  |
| Q7007         | CATAGAGT                  |
| Q7008         | TGCGAGAC                  |
| Q7015         | TCTCTACT                  |
| Q7016         | CTCTCGTC                  |
| Q7017         | CCAAGTCT                  |
| Q7018         | TTGGACTC                  |
| Q7023         | GCAGAATT                  |
| Q7024         | ATGAGGCC                  |
| Q7025         | ACTAAGAT                  |
| Q7026         | GTCGGAGC                  |
| Q7027         | AGCCTCAT                  |
| Q7028         | GATTCTGC                  |
| Q7029         | TCGTAGTG                  |
| Q7030         | CTACGACA                  |

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| Q7035         | ATGGCATG                  |
| Q7036         | GCAATGCA                  |
| Q7039         | CTTATCGG                  |
| Q7040         | TCCGCTAA                  |
| Q7041         | GATCTATC                  |
| Q7042         | AGCTCGCT                  |
| Q7047         | ACACTAAG                  |
| Q7048         | GTGTCGGA                  |

## Index 2 (i5) Adapters

AATGATACGGCGACCACCGAGATCTACAC [i5] TCGTCGGCAGCGTCAGATGTGTATAAGAGACAG

| i5 Index Name | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0 reagent<br>kits, MiSeq, HiSeq 2000/2500,<br>NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with v1.5<br>reagent kits, MiniSeq, NextSeq<br>500/550, HiSeq 3000/4000/X,<br>NextSeq 2000 (Sample Sheet v1) |
|---------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q5001         | AGCGCTAG                                                                                                                       | CTAGCGCT                                                                                                                                                     |
| Q5002         | GATATCGA                                                                                                                       | TCGATATC                                                                                                                                                     |
| Q5003         | CGCAGACG                                                                                                                       | CGTCTGCG                                                                                                                                                     |
| Q5004         | TATGAGTA                                                                                                                       | TACTCATA                                                                                                                                                     |
| Q5007         | ACATAGCG                                                                                                                       | CGCTATGT                                                                                                                                                     |
| Q5008         | GTGCGATA                                                                                                                       | TATCGCAC                                                                                                                                                     |
| Q5009         | CCAACAGA                                                                                                                       | TCTGTTGG                                                                                                                                                     |
| Q5010         | TTGGTGAG                                                                                                                       | CTCACCAA                                                                                                                                                     |
| Q5013         | AACCGCGG                                                                                                                       | CCGCGGTT                                                                                                                                                     |
| Q5014         | GGTTATAA                                                                                                                       | TTATAACC                                                                                                                                                     |
| Q5017         | CTAGCTTG                                                                                                                       | CAAGCTAG                                                                                                                                                     |
| Q5018         | TCGATCCA                                                                                                                       | TGGATCGA                                                                                                                                                     |
| Q5025         | ATACCAAG                                                                                                                       | CTTGGTAT                                                                                                                                                     |
| Q5026         | GCGTTGGA                                                                                                                       | TCCAACGC                                                                                                                                                     |

| <b>i5 Index Name</b> | <b>i5 Bases for Sample Sheet<br/>NovaSeq 6000 with v1.0 reagent<br/>kits, MiSeq, HiSeq 2000/2500,<br/>NextSeq 2000 (Sample Sheet v2)</b> | <b>i5 Bases for Sample Sheet<br/>iSeq, NovaSeq 6000 with v1.5<br/>reagent kits, MiniSeq, NextSeq<br/>500/550, HiSeq 3000/4000/X,<br/>NextSeq 2000 (Sample Sheet v1)</b> |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q5027                | CTTCACGG                                                                                                                                 | CCGTGAAG                                                                                                                                                                |
| Q5028                | TCCTGTAA                                                                                                                                 | TTACAGGA                                                                                                                                                                |
| Q5029                | CCTCGGTA                                                                                                                                 | TACCGAGG                                                                                                                                                                |
| Q5030                | TTCTAACG                                                                                                                                 | CGTTAGAA                                                                                                                                                                |
| Q5031                | CGCTCGTG                                                                                                                                 | CACGAGCG                                                                                                                                                                |
| Q5032                | TATCTACA                                                                                                                                 | TGTAGATA                                                                                                                                                                |
| Q5035                | CATTGTTG                                                                                                                                 | CAACAATG                                                                                                                                                                |
| Q5036                | TGCCACCA                                                                                                                                 | TGGTGGCA                                                                                                                                                                |
| Q5039                | ACGCCGCA                                                                                                                                 | TGCGGCGT                                                                                                                                                                |
| Q5040                | GTATTATG                                                                                                                                 | CATAATAC                                                                                                                                                                |

# Sequences for TruSight Kits

This section lists the adapter sequences for Illumina TruSight library prep kits.

## TruSight Amplicon Panels

TruSight amplicon panels include the TruSight Myeloid Sequencing Panel and TruSight Tumor 26.

### Index 1 (i7) Adapters

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| A701          | ATCACGAC                  |
| A702          | ACAGTGGT                  |
| A703          | CAGATCCA                  |
| A704          | ACAAACGG                  |
| A705          | ACCCAGCA                  |
| A706          | AACCCCTC                  |
| A707          | CCCAACCT                  |
| A708          | CACCACAC                  |
| A709          | GAAACCCA                  |
| A710          | TGTGACCA                  |
| A711          | AGGGTCAA                  |
| A712          | AGGAGTGG                  |

### Index 2 (i5) Adapters

| i5 Index Name | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0 reagent<br>kits, MiSeq, HiSeq 2000/2500,<br>NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with v1.5<br>reagent kits, MiniSeq, NextSeq<br>500/550, HiSeq 3000/4000/X,<br>NextSeq 2000 (Sample Sheet v1) |
|---------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A501          | TGAACCTT                                                                                                                       | AAGGTTC A                                                                                                                                                    |
| A502          | TGCTAAGT                                                                                                                       | ACTTAGCA                                                                                                                                                     |

| i5 Index Name | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0 reagent<br>kits, MiSeq, HiSeq 2000/2500,<br>NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with v1.5<br>reagent kits, MiniSeq, NextSeq<br>500/550, HiSeq 3000/4000/X,<br>NextSeq 2000 (Sample Sheet v1) |
|---------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A503          | TGTTCTCT                                                                                                                       | AGAGAACA                                                                                                                                                     |
| A504          | TAAGACAC                                                                                                                       | GTGTCTTA                                                                                                                                                     |
| A505          | CTAATCGA                                                                                                                       | TCGATTAG                                                                                                                                                     |
| A506          | CTAGAACA                                                                                                                       | TGTTCTAG                                                                                                                                                     |
| A507          | TAAGTTCC                                                                                                                       | GGAACCTA                                                                                                                                                     |
| A508          | TAGACCTA                                                                                                                       | TAGGTCTA                                                                                                                                                     |

## TruSight DNA Enrichment Kits

TruSight DNA enrichment kits include TruSeq Neurodegeneration, TruSight Cancer, TruSight Cardio, TruSight One, TruSight Inherited Disease, and TruSight Rapid Capture.

### Index 1 (i7) Adapters

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| N701          | TAAGGCGA                  |
| N702          | CGTACTAG                  |
| N703          | AGGCAGAA                  |
| N704          | TCCTGAGC                  |
| N705          | GGAATCCT                  |
| N706          | TAGGCATG                  |
| N707          | CTCTCTAC                  |
| N708          | CAGAGAGG                  |
| N709          | GCTACGCT                  |
| N710          | CGAGGCTG                  |
| N711          | AAGAGGCA                  |
| N712          | GTAGAGGA                  |

## Index 2 (i5) Adapter

| <b>i5 Index Name</b> | <b>i5 Bases for Sample Sheet<br/>NovaSeq 6000 with v1.0 reagent<br/>kits, MiSeq, HiSeq 2000/2500,<br/>NextSeq 2000 (Sample Sheet v2)</b> | <b>i5 Bases for Sample Sheet<br/>iSeq, NovaSeq 6000 with v1.5<br/>reagent kits, MiniSeq, NextSeq<br/>500/550, HiSeq 3000/4000/X,<br/>NextSeq 2000 (Sample Sheet v1)</b> |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E501                 | TAGATCGC                                                                                                                                 | GCGATCTA                                                                                                                                                                |
| E502                 | CTCTCTAT                                                                                                                                 | ATAGAGAG                                                                                                                                                                |
| E503                 | TATCCTCT                                                                                                                                 | AGAGGATA                                                                                                                                                                |
| E504                 | AGAGTAGA                                                                                                                                 | TCTACTCT                                                                                                                                                                |
| E505                 | GTAAGGAG                                                                                                                                 | CTCCTTAC                                                                                                                                                                |
| E506                 | ACTGCATA                                                                                                                                 | TATGCAGT                                                                                                                                                                |
| E507                 | AAGGAGTA                                                                                                                                 | TACTCCTT                                                                                                                                                                |
| E508                 | CTAAGCCT                                                                                                                                 | AGGCTTAG                                                                                                                                                                |
| E517                 | GCGTAAGA                                                                                                                                 | TCTTACGC                                                                                                                                                                |

## TruSight Tumor 170 and TruSight Oncology 500

## RNA Index 1 (i7) Adapters

| <b>i7 Index Name</b> | <b>Index Primer</b> | <b>i7 Bases for Sample Sheet</b> |
|----------------------|---------------------|----------------------------------|
| D702                 | UP01                | TCCGGAGA                         |
| D707                 | UP02                | CTGAAGCT                         |
| D717                 | UP03                | CGTAGCTC                         |
| D706                 | UP04                | GAATTCGT                         |
| D712                 | UP05                | AGCGATAG                         |
| D724                 | UP06                | GCGATTAA                         |
| D705                 | UP07                | ATTCAGAA                         |
| D713                 | UP08                | GAATAATC                         |
| D715                 | UP09                | TTAATCAG                         |
| D703                 | UP10                | CGCTCATT                         |
| D710                 | UP11                | TCCGCGAA                         |

| i7 Index Name | Index Primer | i7 Bases for Sample Sheet |
|---------------|--------------|---------------------------|
| D701          | UP12         | ATTACTCG                  |
| D716          | UP13         | ACTGCTTA                  |
| D714          | UP14         | ATGCGGCT                  |
| D718          | UP15         | GCCTCTCT                  |
| D719          | UP16         | GCCGTAGG                  |

## RNA Index 2 (i5) Adapters

| i5 Index Name | Index Primer | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0<br>reagent kits, MiSeq,<br>HiSeq 2000/2500,<br>NextSeq 2000 (Sample<br>Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with v1.5<br>reagent kits, MiniSeq, NextSeq<br>500/550,<br>HiSeq 3000/4000/X, NextSeq<br>2000 (Sample Sheet v1) |
|---------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D503          | UP01         | CCTATCCT                                                                                                                             | AGGATAGG                                                                                                                                                        |
| D504          | UP02         | GGCTCTGA                                                                                                                             | TCAGAGCC                                                                                                                                                        |
| D509          | UP03         | TTCGGATG                                                                                                                             | CATCCGAA                                                                                                                                                        |
| D510          | UP04         | ACTCATAA                                                                                                                             | TTATGAGT                                                                                                                                                        |
| D513          | UP05         | TTATTCTG                                                                                                                             | ACGAATAA                                                                                                                                                        |
| D515          | UP06         | AGCAGATC                                                                                                                             | GATCTGCT                                                                                                                                                        |
| D501          | UP07         | TATAGCCT                                                                                                                             | AGGCTATA                                                                                                                                                        |
| D502          | UP08         | ATAGAGGC                                                                                                                             | GCCTCTAT                                                                                                                                                        |
| D505          | UP09         | AGGCGAAG                                                                                                                             | CTTCGCCT                                                                                                                                                        |
| D506          | UP10         | TAATCTTA                                                                                                                             | TAAGATTA                                                                                                                                                        |
| D517          | UP11         | TACTTACT                                                                                                                             | AGTAAGTA                                                                                                                                                        |
| D518          | UP12         | AGGAAGTC                                                                                                                             | GACTTCCT                                                                                                                                                        |
| D511          | UP13         | GCGCCTCT                                                                                                                             | AGAGGCGC                                                                                                                                                        |
| D512          | UP14         | CGCGGCTA                                                                                                                             | TAGCCGCG                                                                                                                                                        |
| D514          | UP15         | CCTACGAA                                                                                                                             | TTCGTAGG                                                                                                                                                        |
| D516          | UP16         | GCGGAGCG                                                                                                                             | CGCTCCGC                                                                                                                                                        |

## DNA Index 1 (i7) Adapters

| i7 Index Name | Index Primer | i7 Bases for Sample Sheet |
|---------------|--------------|---------------------------|
| D721          | CP01         | CATCGAGG                  |
| D723          | CP02         | CTCGACTG                  |
| D709          | CP03         | CGGCTATG                  |
| D711          | CP04         | TCTCGCGC                  |
| D723          | CP05         | CTCGACTG                  |
| D709          | CP06         | CGGCTATG                  |
| D711          | CP07         | TCTCGCGC                  |
| D721          | CP08         | CATCGAGG                  |
| D709          | CP09         | CGGCTATG                  |
| D711          | CP10         | TCTCGCGC                  |
| D721          | CP11         | CATCGAGG                  |
| D723          | CP12         | CTCGACTG                  |
| D711          | CP13         | TCTCGCGC                  |
| D721          | CP14         | CATCGAGG                  |
| D723          | CP15         | CTCGACTG                  |
| D709          | CP16         | CGGCTATG                  |

## DNA Index 2 (i5) Adapters

| i5 Index Name | Index Primer | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0<br>reagent kits, MiSeq,<br>HiSeq 2000/2500,<br>NextSeq 2000 (Sample<br>Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with v1.5<br>reagent kits, MiniSeq, NextSeq<br>500/550,<br>HiSeq 3000/4000/X, NextSeq<br>2000 (Sample Sheet v1) |
|---------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D507          | CP01         | CAGGACGT                                                                                                                             | ACGTCCTG                                                                                                                                                        |
| D508          | CP02         | GTACTGAC                                                                                                                             | GTCAGTAC                                                                                                                                                        |
| D519          | CP03         | GGCGACGG                                                                                                                             | CCGTCGCC                                                                                                                                                        |
| D520          | CP04         | CCTCGGAC                                                                                                                             | GTCCGAGG                                                                                                                                                        |
| D507          | CP05         | CAGGACGT                                                                                                                             | ACGTCCTG                                                                                                                                                        |

| i5 Index Name | Index Primer | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0<br>reagent kits, MiSeq,<br>HiSeq 2000/2500,<br>NextSeq 2000 (Sample<br>Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with v1.5<br>reagent kits, MiniSeq, NextSeq<br>500/550,<br>HiSeq 3000/4000/X, NextSeq<br>2000 (Sample Sheet v1) |
|---------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D507          | CP06         | CAGGACGT                                                                                                                             | ACGTCCTG                                                                                                                                                        |
| D507          | CP07         | CAGGACGT                                                                                                                             | ACGTCCTG                                                                                                                                                        |
| D508          | CP08         | GTACTGAC                                                                                                                             | GTCAGTAC                                                                                                                                                        |
| D508          | CP09         | GTACTGAC                                                                                                                             | GTCAGTAC                                                                                                                                                        |
| D508          | CP10         | GTACTGAC                                                                                                                             | GTCAGTAC                                                                                                                                                        |
| D519          | CP11         | GGCGACGG                                                                                                                             | CCGTCGCC                                                                                                                                                        |
| D519          | CP12         | GGCGACGG                                                                                                                             | CCGTCGCC                                                                                                                                                        |
| D519          | CP13         | GGCGACGG                                                                                                                             | CCGTCGCC                                                                                                                                                        |
| D520          | CP14         | CCTCGGAC                                                                                                                             | GTCCGAGG                                                                                                                                                        |
| D520          | CP15         | CCTCGGAC                                                                                                                             | GTCCGAGG                                                                                                                                                        |
| D520          | CP16         | CCTCGGAC                                                                                                                             | GTCCGAGG                                                                                                                                                        |

## TruSight Oncology ctDNA

### DNA Index 1 (i7) Adapters

| i7 Index Name | Index Primer | i7 Bases for Sample Sheet |
|---------------|--------------|---------------------------|
| D702          | UP01         | TCCGGAGA                  |
| D707          | UP02         | CTGAAGCT                  |
| D717          | UP03         | CGTAGCTC                  |
| D706          | UP04         | GAATTCGT                  |
| D712          | UP05         | AGCGATAG                  |
| D724          | UP06         | GCGATTAA                  |
| D705          | UP07         | ATTCAGAA                  |
| D713          | UP08         | GAATAATC                  |
| D715          | UP09         | TTAATCAG                  |

| i7 Index Name | Index Primer | i7 Bases for Sample Sheet |
|---------------|--------------|---------------------------|
| D703          | UP10         | CGCTCATT                  |
| D710          | UP11         | TCCGCGAA                  |
| D701          | UP12         | ATTACTCG                  |
| D716          | UP13         | ACTGCTTA                  |
| D714          | UP14         | ATGCGGCT                  |
| D718          | UP15         | GCCTCTCT                  |
| D719          | UP16         | GCCGTAGG                  |

## DNA Index 2 (i5) Adapters

| i5 Index Name | Index Primer | i5 Bases for Sample Sheet |
|---------------|--------------|---------------------------|
| D503          | UP01         | CCTATCCT                  |
| D504          | UP02         | GGCTCTGA                  |
| D509          | UP03         | TTCGGATG                  |
| D510          | UP04         | ACTCATAA                  |
| D513          | UP05         | TTATTTCGT                 |
| D515          | UP06         | AGCAGATC                  |
| D501          | UP07         | TATAGCCT                  |
| D502          | UP08         | ATAGAGGC                  |
| D505          | UP09         | AGGCGAAG                  |
| D506          | UP10         | TAATCTTA                  |
| D517          | UP11         | TACTTACT                  |
| D518          | UP12         | AGGAAGTC                  |
| D511          | UP13         | GCGCCTCT                  |
| D512          | UP14         | CGCGGCTA                  |
| D514          | UP15         | CCTACGAA                  |
| D516          | UP16         | GCGGAGCG                  |

# TruSight Tumor 15

## Index 1 (i7) Adapters

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| R701          | ATCACG                    |
| R702          | CGATGT                    |
| R703          | TTAGGC                    |
| R704          | TGACCA                    |
| R705          | ACAGTG                    |
| R706          | GCCAAT                    |
| R707          | CAGATC                    |
| R708          | ACTTGA                    |
| R709          | GATCAG                    |
| R749          | GATGCT                    |
| R711          | GGCTAC                    |
| R712          | CTTGTA                    |
| R725          | ACTGAT                    |
| R726          | ATGAGC                    |
| R727          | ATTCCT                    |
| R728          | CAAAAG                    |
| R729          | CAACTA                    |
| R730          | CACCGG                    |
| R731          | CACGAT                    |
| R732          | CACTCA                    |
| R733          | CAGGCG                    |
| R734          | CATGGC                    |
| R735          | CATTTT                    |
| R736          | CCAACA                    |

## Index 2 (i5) Adapter

| i5 Index Name | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0 reagent<br>kits, MiSeq, HiSeq 2000/2500,<br>NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with v1.5<br>reagent kits, MiniSeq, NextSeq<br>500/550, HiSeq 3000/4000/X,<br>NextSeq 2000 (Sample Sheet v1) |
|---------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A501          | TGAACCTT                                                                                                                       | AAGGTTCA                                                                                                                                                     |
| A502          | TGCTAAGT                                                                                                                       | ACTTAGCA                                                                                                                                                     |

## TruSight RNA Pan-Cancer Panel

## Universal Adapter

5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

## Index Adapters

Index adapter sequences are six bases as underlined. Enter the six underlined bases in the sample sheet.

The index numbering is not sequential, so indexes 17, 24, and 26 are skipped. Additionally, the bases preceding each index adapter sequence are the same, but the two bases following the index adapter sequence can vary.

## Index Adapter 1

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCACGATCTCGTATGCCGTCTTCTGCTTG

## Index Adapter 2

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCGATGTATCTCGTATGCCGTCTTCTGCTTG

## Index Adapter 3

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAGGCATCTCGTATGCCGTCTTCTGCTTG

## Index Adapter 4

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACTGACCAATCTCGTATGCCGTCTTCTGCTTG

## Index Adapter 5

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACACAGTGATCTCGTATGCCGTCTTCTGCTTG

## Index Adapter 6

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGTCTTCTGCTTG

## Index Adapter 7

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCAGATCATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 8

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACACTTGAATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 9

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGATCAGATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 10

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACTAGCTTATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 11

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGGCTACATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 12

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 13

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGTCAACAATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 14

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGTTCCGTATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 15

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACATGTCAGAATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 16

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCCGTCCCGATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 18

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTCCGCACATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 19

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTGAAACGATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 20

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTGGCCTTATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 21

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTTTCGGAATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 22

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCGTACGTAATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 23

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGAGTGGATATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 25

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACACTGATATATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 27

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACATTTCCTTTATCTCGTATGCCGTCTTCTGCTTG

# Sequences for TruSeq Kits

This section lists the adapter sequences for Illumina TruSeq library prep kits.

## IDT for Illumina–TruSeq DNA and RNA UD Indexes

These unique dual (UD) index adapters are arranged in the plate to enforce the recommended pairing strategy.

### Adapter Trimming

The following sequences are used for adapter trimming.

Read 1

AGATCGGAAGAGCACACGTCTGAACTCCAGTCA

Read 2

AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGT

### Index Adapters

Index 1 (i7) Adapters

GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [i7] ATCTCGTATGCCGTCTTCTGCTTG

Index 2 (i5) Adapters

AATGATACGGCGACCACCGAGATCTACAC [i5] ACACTCTTTCCCTACACGACGCTCTTCCGATCT

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDI0001    | CCGCGGTT            | CCGCGGTT                  | AGCGCTAG            | AGCGCTAG                                                                                                              | CTAGCGCT                                                                                                                                         |
| UDI0002    | TTATAACC            | TTATAACC                  | GATATCGA            | GATATCGA                                                                                                              | TCGATATC                                                                                                                                         |
| UDI0003    | GGAATTGG            | GGAATTGG                  | CGCAGACG            | CGCAGACG                                                                                                              | CGTCTGCG                                                                                                                                         |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDI0004    | AAGTCCAA            | AAGTCCAA                  | TATGAGTA            | TATGAGTA                                                                                                              | TACTCATA                                                                                                                                         |
| UDI0005    | ATCCACTG            | ATCCACTG                  | AGGTGCGT            | AGGTGCGT                                                                                                              | ACGCACCT                                                                                                                                         |
| UDI0006    | GCTTGTC             | GCTTGTC                   | GAACATAC            | GAACATAC                                                                                                              | GTATGTTC                                                                                                                                         |
| UDI0007    | CAAGCTAG            | CAAGCTAG                  | ACATAGCG            | ACATAGCG                                                                                                              | CGCTATGT                                                                                                                                         |
| UDI0008    | TGGATCGA            | TGGATCGA                  | GTGCGATA            | GTGCGATA                                                                                                              | TATCGCAC                                                                                                                                         |
| UDI0009    | AGTTCAGG            | AGTTCAGG                  | CCAACAGA            | CCAACAGA                                                                                                              | TCTGTTGG                                                                                                                                         |
| UDI0010    | GACCTGAA            | GACCTGAA                  | TTGGTGAG            | TTGGTGAG                                                                                                              | CTCACCAA                                                                                                                                         |
| UDI0011    | TCTCTACT            | TCTCTACT                  | CGCGGTTC            | CGCGGTTC                                                                                                              | GAACCGCG                                                                                                                                         |
| UDI0012    | CTCTCGTC            | CTCTCGTC                  | TATAACCT            | TATAACCT                                                                                                              | AGGTTATA                                                                                                                                         |
| UDI0013    | CCAAGTCT            | CCAAGTCT                  | AAGGATGA            | AAGGATGA                                                                                                              | TCATCCTT                                                                                                                                         |
| UDI0014    | TTGGACTC            | TTGGACTC                  | GGAAGCAG            | GGAAGCAG                                                                                                              | CTGCTTCC                                                                                                                                         |
| UDI0015V2  | CAGTAGGC            | CAGTAGGC                  | TGACGAAT            | TGACGAAT                                                                                                              | ATTCTGTC                                                                                                                                         |
| UDI0015    | GGCTTAAG            | GGCTTAAG                  | TCGTGACC            | TCGTGACC                                                                                                              | GGTCACGA                                                                                                                                         |
| UDI0016V2  | TGACGAAT            | TGACGAAT                  | CAGTAGGC            | CAGTAGGC                                                                                                              | GCCTACTG                                                                                                                                         |
| UDI0016    | AATCCGGA            | AATCCGGA                  | CTACAGTT            | CTACAGTT                                                                                                              | AACTGTAG                                                                                                                                         |
| UDI0017    | TAATACAG            | TAATACAG                  | ATATTAC             | ATATTAC                                                                                                               | GTGAATAT                                                                                                                                         |
| UDI0018    | CGGCGTGA            | CGGCGTGA                  | GCGCCTGT            | GCGCCTGT                                                                                                              | ACAGGCGC                                                                                                                                         |
| UDI0019    | ATGTAAGT            | ATGTAAGT                  | ACTCTATG            | ACTCTATG                                                                                                              | CATAGAGT                                                                                                                                         |
| UDI0020    | GCACGGAC            | GCACGGAC                  | GTCTCGCA            | GTCTCGCA                                                                                                              | TGCGAGAC                                                                                                                                         |
| UDI0021    | GGTACCTT            | GGTACCTT                  | AAGACGTC            | AAGACGTC                                                                                                              | GACGTCTT                                                                                                                                         |
| UDI0022    | AACGTTCC            | AACGTTCC                  | GGAGTACT            | GGAGTACT                                                                                                              | AGTACTCC                                                                                                                                         |
| UDI0023    | GCAGAATT            | GCAGAATT                  | ACCGGCCA            | ACCGGCCA                                                                                                              | TGGCCGGT                                                                                                                                         |
| UDI0024    | ATGAGGCC            | ATGAGGCC                  | GTTAATTG            | GTTAATTG                                                                                                              | CAATTAAC                                                                                                                                         |
| UDI0025    | ACTAAGAT            | ACTAAGAT                  | AACCGCGG            | AACCGCGG                                                                                                              | CCGCGGTT                                                                                                                                         |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDI0026    | GTCGGAGC            | GTCGGAGC                  | GGTTATAA            | GGTTATAA                                                                                                              | TTATAACC                                                                                                                                         |
| UDI0027    | CTTGGTAT            | CTTGGTAT                  | CCAAGTCC            | CCAAGTCC                                                                                                              | GGACTTGG                                                                                                                                         |
| UDI0028    | TCCAACGC            | TCCAACGC                  | TTGGACTT            | TTGGACTT                                                                                                              | AAGTCCAA                                                                                                                                         |
| UDI0029    | CCGTGAAG            | CCGTGAAG                  | CAGTGGAT            | CAGTGGAT                                                                                                              | ATCCACTG                                                                                                                                         |
| UDI0030    | TTACAGGA            | TTACAGGA                  | TGACAAGC            | TGACAAGC                                                                                                              | GCTTGTC A                                                                                                                                        |
| UDI0031    | GGCATTCT            | GGCATTCT                  | CTAGCTTG            | CTAGCTTG                                                                                                              | CAAGCTAG                                                                                                                                         |
| UDI0032    | AATGCCTC            | AATGCCTC                  | TCGATCCA            | TCGATCCA                                                                                                              | TGGATCGA                                                                                                                                         |
| UDI0033    | TACCGAGG            | TACCGAGG                  | CCTGAACT            | CCTGAACT                                                                                                              | AGTTCAGG                                                                                                                                         |
| UDI0034    | CGTTAGAA            | CGTTAGAA                  | TTCAGGTC            | TTCAGGTC                                                                                                              | GACCTGAA                                                                                                                                         |
| UDI0035    | AGCCTCAT            | AGCCTCAT                  | AGTAGAGA            | AGTAGAGA                                                                                                              | TCTCTACT                                                                                                                                         |
| UDI0036    | GATTCTGC            | GATTCTGC                  | GACGAGAG            | GACGAGAG                                                                                                              | CTCTCGTC                                                                                                                                         |
| UDI0037    | TCGTAGTG            | TCGTAGTG                  | AGACTTGG            | AGACTTGG                                                                                                              | CCAAGTCT                                                                                                                                         |
| UDI0038    | CTACGACA            | CTACGACA                  | GAGTCCAA            | GAGTCCAA                                                                                                              | TTGGACTC                                                                                                                                         |
| UDI0039    | TAAGTGGT            | TAAGTGGT                  | CTTAAGCC            | CTTAAGCC                                                                                                              | GGCTTAAG                                                                                                                                         |
| UDI0040    | CGGACAAC            | CGGACAAC                  | TCCGGATT            | TCCGGATT                                                                                                              | AATCCGGA                                                                                                                                         |
| UDI0041    | ATATGGAT            | ATATGGAT                  | CTGTATTA            | CTGTATTA                                                                                                              | TAATACAG                                                                                                                                         |
| UDI0042    | GCGCAAGC            | GCGCAAGC                  | TCACGCCG            | TCACGCCG                                                                                                              | CGGCGTGA                                                                                                                                         |
| UDI0043    | AAGATACT            | AAGATACT                  | ACTTACAT            | ACTTACAT                                                                                                              | ATGTAAGT                                                                                                                                         |
| UDI0044    | GGAGCGTC            | GGAGCGTC                  | GTCCGTGC            | GTCCGTGC                                                                                                              | GCACGGAC                                                                                                                                         |
| UDI0045    | ATGGCATG            | ATGGCATG                  | AAGGTACC            | AAGGTACC                                                                                                              | GGTACCTT                                                                                                                                         |
| UDI0046    | GCAATGCA            | GCAATGCA                  | GGAACGTT            | GGAACGTT                                                                                                              | AACGTTCC                                                                                                                                         |
| UDI0047    | GTTCCAAT            | GTTCCAAT                  | AATTCTGC            | AATTCTGC                                                                                                              | GCAGAATT                                                                                                                                         |
| UDI0048    | ACCTTGGC            | ACCTTGGC                  | GGCCTCAT            | GGCCTCAT                                                                                                              | ATGAGGCC                                                                                                                                         |
| UDI0049    | ATATCTCG            | ATATCTCG                  | ATCTTAGT            | ATCTTAGT                                                                                                              | ACTAAGAT                                                                                                                                         |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDI0050    | GCGCTCTA            | GCGCTCTA                  | GCTCCGAC            | GCTCCGAC                                                                                                              | GTCGGAGC                                                                                                                                         |
| UDI0051    | AACAGGTT            | AACAGGTT                  | ATACCAAG            | ATACCAAG                                                                                                              | CTTGGTAT                                                                                                                                         |
| UDI0052    | GGTGAACC            | GGTGAACC                  | GCGTTGGA            | GCGTTGGA                                                                                                              | TCCAACGC                                                                                                                                         |
| UDI0053    | CAACAATG            | CAACAATG                  | CTTCACGG            | CTTCACGG                                                                                                              | CCGTGAAG                                                                                                                                         |
| UDI0054    | TGGTGGCA            | TGGTGGCA                  | TCCTGTAA            | TCCTGTAA                                                                                                              | TTACAGGA                                                                                                                                         |
| UDI0055V2  | GTTTCGCCG           | GTTTCGCCG                 | GCTCATTG            | GCTCATTG                                                                                                              | CAATGAGC                                                                                                                                         |
| UDI0055    | AGGCAGAG            | AGGCAGAG                  | AGAATGCC            | AGAATGCC                                                                                                              | GGCATTCT                                                                                                                                         |
| UDI0056V2  | CACGAGCG            | CACGAGCG                  | ATCTGCCA            | ATCTGCCA                                                                                                              | TGGCAGAT                                                                                                                                         |
| UDI0056    | GAATGAGA            | GAATGAGA                  | GAGGCATT            | GAGGCATT                                                                                                              | AATGCCTC                                                                                                                                         |
| UDI0057    | TGCGGCGT            | TGCGGCGT                  | CCTCGGTA            | CCTCGGTA                                                                                                              | TACCGAGG                                                                                                                                         |
| UDI0058    | CATAATAC            | CATAATAC                  | TTCTAACG            | TTCTAACG                                                                                                              | CGTTAGAA                                                                                                                                         |
| UDI0059    | GATCTATC            | GATCTATC                  | ATGAGGCT            | ATGAGGCT                                                                                                              | AGCCTCAT                                                                                                                                         |
| UDI0060    | AGCTCGCT            | AGCTCGCT                  | GCAGAATC            | GCAGAATC                                                                                                              | GATTCTGC                                                                                                                                         |
| UDI0061    | CGGAACTG            | CGGAACTG                  | CACTACGA            | CACTACGA                                                                                                              | TCGTAGTG                                                                                                                                         |
| UDI0062    | TAAGGTCA            | TAAGGTCA                  | TGTCGTAG            | TGTCGTAG                                                                                                              | CTACGACA                                                                                                                                         |
| UDI0063    | TTGCCTAG            | TTGCCTAG                  | ACCACTTA            | ACCACTTA                                                                                                              | TAAGTGGT                                                                                                                                         |
| UDI0064    | CCATTCTGA           | CCATTCTGA                 | GTTGTCCG            | GTTGTCCG                                                                                                              | CGGACAAC                                                                                                                                         |
| UDI0065    | ACACTAAG            | ACACTAAG                  | ATCCATAT            | ATCCATAT                                                                                                              | ATATGGAT                                                                                                                                         |
| UDI0066    | GTGTCGGA            | GTGTCGGA                  | GCTTGCGC            | GCTTGCGC                                                                                                              | GCGCAAGC                                                                                                                                         |
| UDI0067    | TTCCTGTT            | TTCCTGTT                  | AGTATCTT            | AGTATCTT                                                                                                              | AAGATACT                                                                                                                                         |
| UDI0068    | CCTTCACC            | CCTTCACC                  | GACGCTCC            | GACGCTCC                                                                                                              | GGAGCGTC                                                                                                                                         |
| UDI0069    | GCCACAGG            | GCCACAGG                  | CATGCCAT            | CATGCCAT                                                                                                              | ATGGCATG                                                                                                                                         |
| UDI0070    | ATTGTGAA            | ATTGTGAA                  | TGCATTGC            | TGCATTGC                                                                                                              | GCAATGCA                                                                                                                                         |
| UDI0071    | ACTCGTGT            | ACTCGTGT                  | ATTGGAAC            | ATTGGAAC                                                                                                              | GTTCCAAT                                                                                                                                         |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| UDI0072    | GTCTACAC            | GTCTACAC                  | GCCAAGGT            | GCCAAGGT                                                                                                              | ACCTTGGC                                                                                                                                         |
| UDI0073    | CAATTAAC            | CAATTAAC                  | CGAGATAT            | CGAGATAT                                                                                                              | ATATCTCG                                                                                                                                         |
| UDI0074    | TGGCCGGT            | TGGCCGGT                  | TAGAGCGC            | TAGAGCGC                                                                                                              | GCGCTCTA                                                                                                                                         |
| UDI0075    | AGTACTCC            | AGTACTCC                  | AACCTGTT            | AACCTGTT                                                                                                              | AACAGGTT                                                                                                                                         |
| UDI0076    | GACGTCTT            | GACGTCTT                  | GGTTCACC            | GGTTCACC                                                                                                              | GGTGAACC                                                                                                                                         |
| UDI0077    | TGCGAGAC            | TGCGAGAC                  | CATTGTTG            | CATTGTTG                                                                                                              | CAACAATG                                                                                                                                         |
| UDI0078    | CATAGAGT            | CATAGAGT                  | TGCCACCA            | TGCCACCA                                                                                                              | TGGTGGCA                                                                                                                                         |
| UDI0079    | ACAGGCGC            | ACAGGCGC                  | CTCTGCCT            | CTCTGCCT                                                                                                              | AGGCAGAG                                                                                                                                         |
| UDI0080    | GTGAATAT            | GTGAATAT                  | TCTCATTC            | TCTCATTC                                                                                                              | GAATGAGA                                                                                                                                         |
| UDI0081    | AACTGTAG            | AACTGTAG                  | ACGCCGCA            | ACGCCGCA                                                                                                              | TGCGGCGT                                                                                                                                         |
| UDI0082    | GGTCACGA            | GGTCACGA                  | GTATTATG            | GTATTATG                                                                                                              | CATAATAC                                                                                                                                         |
| UDI0083    | CTGCTTCC            | CTGCTTCC                  | GATAGATC            | GATAGATC                                                                                                              | GATCTATC                                                                                                                                         |
| UDI0084    | TCATCCTT            | TCATCCTT                  | AGCGAGCT            | AGCGAGCT                                                                                                              | AGCTCGCT                                                                                                                                         |
| UDI0085    | AGGTTATA            | AGGTTATA                  | CAGTTCCG            | CAGTTCCG                                                                                                              | CGGAAC TG                                                                                                                                        |
| UDI0086    | GAACCGCG            | GAACCGCG                  | TGACCTTA            | TGACCTTA                                                                                                              | TAAGGTCA                                                                                                                                         |
| UDI0087    | CTCACCAA            | CTCACCAA                  | CTAGGCAA            | CTAGGCAA                                                                                                              | TTGCCTAG                                                                                                                                         |
| UDI0088    | TCTGTTGG            | TCTGTTGG                  | TCGAATGG            | TCGAATGG                                                                                                              | CCATT CGA                                                                                                                                        |
| UDI0089    | TATCGCAC            | TATCGCAC                  | CTTAGTGT            | CTTAGTGT                                                                                                              | ACACTAAG                                                                                                                                         |
| UDI0090    | CGCTATGT            | CGCTATGT                  | TCCGACAC            | TCCGACAC                                                                                                              | GTGTCGGA                                                                                                                                         |
| UDI0091    | GTATGTTC            | GTATGTTC                  | AACAGGAA            | AACAGGAA                                                                                                              | TTCTGTGT                                                                                                                                         |
| UDI0092    | ACGCACCT            | ACGCACCT                  | GGTGAAGG            | GGTGAAGG                                                                                                              | CCTTCACC                                                                                                                                         |
| UDI0093    | TACTCATA            | TACTCATA                  | CCTGTGGC            | CCTGTGGC                                                                                                              | GCCACAGG                                                                                                                                         |
| UDI0094    | CGTCTGCG            | CGTCTGCG                  | TTCACAAT            | TTCACAAT                                                                                                              | ATTGTGAA                                                                                                                                         |
| UDI0095    | TCGATATC            | TCGATATC                  | ACACGAGT            | ACACGAGT                                                                                                              | ACTCGTGT                                                                                                                                         |

| Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases in Adapter | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0 reagent kits, MiSeq, HiSeq 2000/2500, NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 2000 (Sample Sheet v1) |
|------------|---------------------|---------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| UDI0096    | CTAGCGCT            | CTAGCGCT                  | GTGTAGAC            | GTGTAGAC                                                                                                                 | GTCTACAC                                                                                                                                            |

## TruSeq DNA and RNA CD Indexes

Combinatorial dual (CD) index adapters (formerly TruSeq HT).

### Adapter Trimming

The following sequences are used for adapter trimming.

Read 1

AGATCGGAAGAGCACACGTCTGAACTCCAGTCA

Read 2

AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGT

### Index 1 (i7) Adapters

GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [ i 7 ] ATCTCGTATGCCGTCTTCTGCTTG

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| D701          | ATTACTCG                  |
| D702          | TCCGGAGA                  |
| D703          | CGCTCATT                  |
| D704          | GAGATTCC                  |
| D705          | ATTCAGAA                  |
| D706          | GAATTCGT                  |
| D707          | CTGAAGCT                  |
| D708          | TAATGCGC                  |
| D709          | CGGCTATG                  |

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| D710          | TCCGCGAA                  |
| D711          | TCTCGCGC                  |
| D712          | AGCGATAG                  |

## Index 2 (i5) Adapters

AATGATACGGCGACCACCGAGATCTACAC [i5] AACTCTTTCCCTACACGACGCTCTTCCGATCT

| i5 Index Name | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0 reagent<br>kits, MiSeq, HiSeq 2000/2500,<br>NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with v1.5<br>reagent kits, MiniSeq, NextSeq<br>500/550, HiSeq 3000/4000/X,<br>NextSeq 2000 (Sample Sheet v1) |
|---------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D501          | TATAGCCT                                                                                                                       | AGGCTATA                                                                                                                                                     |
| D502          | ATAGAGGC                                                                                                                       | GCCTCTAT                                                                                                                                                     |
| D503          | CCTATCCT                                                                                                                       | AGGATAGG                                                                                                                                                     |
| D504          | GGCTCTGA                                                                                                                       | TCAGAGCC                                                                                                                                                     |
| D505          | AGGCGAAG                                                                                                                       | CTTCGCCT                                                                                                                                                     |
| D506          | TAATCTTA                                                                                                                       | TAAGATTA                                                                                                                                                     |
| D507          | CAGGACGT                                                                                                                       | ACGTCCTG                                                                                                                                                     |
| D508          | GTACTGAC                                                                                                                       | GTCAGTAC                                                                                                                                                     |

## TruSeq Single Indexes

### Adapter Trimming

The following sequences are used for adapter trimming.

Read 1

AGATCGGAAGAGCACACGTCTGAACTCCAGTCA

Read 2

AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGT

### TruSeq Universal Adapter

5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

## DNA and RNA Index Adapters

Index adapter sequences are six bases as underlined. Enter the six underlined bases in the sample sheet.

The index numbering is not sequential, so indexes 17, 24, and 26 are skipped. Additionally, the bases preceding each index adapter sequence are the same, but the two bases following the index adapter sequence can vary.

### Index Adapter 1

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCACGATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 2

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCGATGTATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 3

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAGGCATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 4

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACTGACCAATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 5

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACACAGTGATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 6

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 7

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCAGATCATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 8

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACACTTGAATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 9

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGATCAGATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 10

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACTAGCTTATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 11

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGGCTACATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 12

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 13

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGTCAACAATCTCGTATGCCGTCTTCTGCTTG

### Index Adapter 14

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGTTCCGTATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 15

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACATGTCAGAATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 16

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCCGTCCGATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 18

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTCGCACATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 19

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTAACGATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 20

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTCGCTTATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 21

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTTTCGGAATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 22

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCGTACGTAATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 23

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGAGTGGATATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 25

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACACTGATATATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 27

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACATTCCTTTATCTCGTATGCCGTCTTCTGCTTG

## TruSeq Amplicon Kits

Includes TruSeq Custom Amplicon v1.5, TruSeq Amplicon Cancer Panel, and TruSeq Custom Amplicon Low Input.

### Index 1 (i7) Adapters

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| A701          | ATCACGAC                  |
| A702          | ACAGTGGT                  |
| A703          | CAGATCCA                  |
| A704          | ACAAACGG                  |

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| A705          | ACCCAGCA                  |
| A706          | AACCCCTC                  |
| A707          | CCCAACCT                  |
| A708          | CACCACAC                  |
| A709          | GAAACCCA                  |
| A710          | TGTGACCA                  |
| A711          | AGGGTCAA                  |
| A712          | AGGAGTGG                  |

## Index 2 (i5) Adapters

| i5 Index Name | i5 Bases for Sample Sheet<br>NovaSeq 6000 with v1.0 reagent<br>kits, MiSeq, HiSeq 2000/2500,<br>NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with v1.5<br>reagent kits, MiniSeq, NextSeq<br>500/550, HiSeq 3000/4000/X,<br>NextSeq 2000 (Sample Sheet v1) |
|---------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A501          | TGAACCTT                                                                                                                       | AAGGTTCA                                                                                                                                                     |
| A502          | TGCTAAGT                                                                                                                       | ACTTAGCA                                                                                                                                                     |
| A503          | TGTTCTCT                                                                                                                       | AGAGAACA                                                                                                                                                     |
| A504          | TAAGACAC                                                                                                                       | GTGTCTTA                                                                                                                                                     |
| A505          | CTAATCGA                                                                                                                       | TCGATTAG                                                                                                                                                     |
| A506          | CTAGAACA                                                                                                                       | TGTTCTAG                                                                                                                                                     |
| A507          | TAAGTTCC                                                                                                                       | GGAAGTTA                                                                                                                                                     |
| A508          | TAGACCTA                                                                                                                       | TAGGTCTA                                                                                                                                                     |

## TruSeq Small RNA

### Adapter Trimming

The following sequence is used for adapter trimming.

TGGAATTCTCGGGTGCCAAGG

### RNA 5' Adapter (RA5)

5' GUUCAGAGUUCUACAGUCCGACGAUC

**RNA 3' Adapter (RA3)**

5' TGAATTCTCGGGTGCCAAGG

**Stop Oligo (STP)**

5' GAAUCCACCACGUUCCCGUGG

**RNA RT Primer (RTP)**

5' GCCTTGGCACCCGAGAATTCCA

**RNA PCR Primer (RP1)**

5' AATGATACGGCGACCACCGAGATCTACACGTTTCAGAGTTCTACAGTCCGA

**RNA PCR Index Primers**

5' CAAGCAGAAGACGGCATACGAGAT[6 bases]GTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

**Index Adapters**

| <b>Index Name</b> | <b>Six-Base Sequence in Adapter</b> | <b>Six-Base Sequence for Sample Sheet</b> |
|-------------------|-------------------------------------|-------------------------------------------|
| Index 1<br>(RP11) | CGTGAT                              | ATCACG                                    |
| Index 2<br>(RP12) | ACATCG                              | CGATGT                                    |
| Index 3<br>(RP13) | GCCTAA                              | TTAGGC                                    |
| Index 4<br>(RP14) | TGGTCA                              | TGACCA                                    |
| Index 5<br>(RP15) | CACTGT                              | ACAGTG                                    |
| Index 6<br>(RP16) | ATTGGC                              | GCCAAT                                    |
| Index 7<br>(RP17) | GATCTG                              | CAGATC                                    |
| Index 8<br>(RP18) | TCAAGT                              | ACTTGA                                    |

| Index Name          | Six-Base Sequence in Adapter | Six-Base Sequence for Sample Sheet |
|---------------------|------------------------------|------------------------------------|
| Index 9<br>(RPI9)   | CTGATC                       | GATCAG                             |
| Index 10<br>(RPI10) | AAGCTA                       | TAGCTT                             |
| Index 11<br>(RPI11) | GTAGCC                       | GGCTAC                             |
| Index 12<br>(RPI12) | TACAAG                       | CTTGTA                             |
| Index 13<br>(RPI13) | TTGACT                       | AGTCAA                             |
| Index 14<br>(RPI14) | GGAACT                       | AGTTCC                             |
| Index 15<br>(RPI15) | TGACAT                       | ATGTCA                             |
| Index 16<br>(RPI16) | GGACGG                       | CCGTCC                             |
| Index 17<br>(RPI17) | CTCTAC                       | GTAGAG                             |
| Index 18<br>(RPI18) | GCGGAC                       | GTCCGC                             |
| Index 19<br>(RPI19) | TTTCAC                       | GTGAAA                             |
| Index 20<br>(RPI20) | GGCCAC                       | GTGGCC                             |
| Index 21<br>(RPI21) | CGAAAC                       | GTTTCG                             |
| Index 22<br>(RPI22) | CGTACG                       | CGTACG                             |
| Index 23<br>(RPI23) | CCACTC                       | GAGTGG                             |
| Index 24<br>(RPI24) | GCTACC                       | GGTAGC                             |

| Index Name          | Six-Base Sequence in Adapter | Six-Base Sequence for Sample Sheet |
|---------------------|------------------------------|------------------------------------|
| Index 25<br>(RPI25) | ATCAGT                       | ACTGAT                             |
| Index 26<br>(RPI26) | GCTCAT                       | ATGAGC                             |
| Index 27<br>(RPI27) | AGGAAT                       | ATTCCT                             |
| Index 28<br>(RPI28) | CTTTTG                       | CAAAAG                             |
| Index 29<br>(RPI29) | TAGTTG                       | CAACTA                             |
| Index 30<br>(RPI30) | CCGGTG                       | CACCGG                             |
| Index 31<br>(RPI31) | ATCGTG                       | CACGAT                             |
| Index 32<br>(RPI32) | TGAGTG                       | CACTCA                             |
| Index 33<br>(RPI33) | CGCCTG                       | CAGGCG                             |
| Index 34<br>(RPI34) | GCCATG                       | CATGGC                             |
| Index 35<br>(RPI35) | AAAATG                       | CATTTT                             |
| Index 36<br>(RPI36) | TGTTGG                       | CCAACA                             |
| Index 37<br>(RPI37) | ATTCCG                       | CGGAAT                             |
| Index 38<br>(RPI38) | AGCTAG                       | CTAGCT                             |
| Index 39<br>(RPI39) | GTATAG                       | CTATAC                             |
| Index 40<br>(RPI40) | TCTGAG                       | CTCAGA                             |

| Index Name          | Six-Base Sequence in Adapter | Six-Base Sequence for Sample Sheet |
|---------------------|------------------------------|------------------------------------|
| Index 41<br>(RPI41) | GTCGTC                       | GACGAC                             |
| Index 42<br>(RPI42) | CGATTA                       | TAATCG                             |
| Index 43<br>(RPI43) | GCTGTA                       | TACAGC                             |
| Index 44<br>(RPI44) | ATTATA                       | TATAAT                             |
| Index 45<br>(RPI45) | GAATGA                       | TCATTC                             |
| Index 46<br>(RPI46) | TCGGGA                       | TCCCGA                             |
| Index 47<br>(RPI47) | CTTCGA                       | TCGAAG                             |
| Index 48<br>(RPI48) | TGCCGA                       | TCGGCA                             |

## TruSeq Targeted RNA Expression

### Index 1 (i7) Adapters

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| R701          | ATCACG                    |
| R702          | CGATGT                    |
| R703          | TTAGGC                    |
| R704          | TGACCA                    |
| R705          | ACAGTG                    |
| R706          | GCCAAT                    |
| R707          | CAGATC                    |
| R708          | ACTTGA                    |
| R709          | GATCAG                    |
| R710          | TAGCTT                    |

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| R711          | GGCTAC                    |
| R712          | CTTGTA                    |
| R713          | AGTCAA                    |
| R714          | AGTTCC                    |
| R715          | ATGTCA                    |
| R716          | CCGTCC                    |
| R717          | GTAGAG                    |
| R718          | GTCCGC                    |
| R719          | GTGAAA                    |
| R720          | GTGGCC                    |
| R721          | GTTTCG                    |
| R722          | CGTACG                    |
| R723          | GAGTGG                    |
| R724          | GGTAGC                    |
| R725          | ACTGAT                    |
| R726          | ATGAGC                    |
| R727          | ATTCCT                    |
| R728          | CAAAAAG                   |
| R729          | CAACTA                    |
| R730          | CACCGG                    |
| R731          | CACGAT                    |
| R732          | CACTCA                    |
| R733          | CAGGCG                    |
| R734          | CATGGC                    |
| R735          | CATTTT                    |
| R736          | CCAACA                    |
| R737          | CGGAAT                    |
| R738          | CTAGCT                    |
| R739          | CTATAC                    |
| R740          | CTCAGA                    |

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| R741          | GACGAC                    |
| R742          | TAATCG                    |
| R743          | TACAGC                    |
| R744          | TATAAT                    |
| R745          | TCATTC                    |
| R746          | TCCCGA                    |
| R747          | TCGAAG                    |
| R748          | TCGGCA                    |

## Index 2 (i5) Adapters

| i5 Index Name | i5 Bases for Sample Sheet<br>NovaSeq 6000 with NVCS v1.6 and<br>below, MiSeq, HiSeq 2000/2500,<br>NextSeq 2000 (Sample Sheet v2) | i5 Bases for Sample Sheet<br>iSeq, NovaSeq 6000 with NVCS v1.7<br>and above, MiniSeq, NextSeq 500/550,<br>HiSeq 3000/4000/X, NextSeq 2000<br>(Sample Sheet v1) |
|---------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A501          | TGAACCTT                                                                                                                         | AAGGTTCA                                                                                                                                                       |
| A502          | TGCTAAGT                                                                                                                         | ACTTAGCA                                                                                                                                                       |
| A503          | TGTTCTCT                                                                                                                         | AGAGAACA                                                                                                                                                       |
| A504          | TAAGACAC                                                                                                                         | GTGTCTTA                                                                                                                                                       |
| A505          | CTAATCGA                                                                                                                         | TCGATTAG                                                                                                                                                       |
| A506          | CTAGAACA                                                                                                                         | TGTTCTAG                                                                                                                                                       |
| A507          | TAAGTTCC                                                                                                                         | GGAACCTA                                                                                                                                                       |
| A508          | TAGACCTA                                                                                                                         | TAGGTCTA                                                                                                                                                       |

# Process Controls for TruSeq Kits

TruSeq DNA PCR-Free, TruSeq Nano DNA, TruSeq RNA (v2/LT/HT), and TruSeq Exome kits include the following process controls.

 | Current versions of Sequencing Analysis Viewer (SAV) do not show metrics for control sequences.

## CTE2 - 150bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCTTTAAG
AGTTGCTCTTTTTGTTTGGTAAGTTGCAAATCGAAGTTTATAGATTGAGTTCTACGTCGAGCGGCCGCGAT
```

## CTE2 - 250bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCTTATCTGTCAAACCGCTAATGTCCGTTCTAAGACCGT
CTGGAGAACACTTGCCCATCAGTGCTTTTGAACCTTTTTTTCACAGGTCCTTCCGATTACACTGAGAAGCTGACCACAC
CTGCTAGAAGATGGAGGTATGCAGCCCGTTAGTAGGAGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGG
CGGCCGCGAT
```

## CTE2 - 350bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCTAGAGACCATTTCGCGATTCCATGAGACTCCAAGGGTTC
TGCACAACCTTATGCACCTCTATTAGATCATTGTGTTCTACGAAGCCTGGACTGCATTACATATTCACAACCAACATGAGA
AGAGCGGAATAGATGGCCGGATGTTTGGTGGCTTTGATATATTGTGAGGAGCATTGCGAACCTAGAGCTGTCCGGTCAA
ATAACCCCTCACAATAAGTGTAATGTCATGGGATAATCAAAGACTAAGGGAGGGCTTTTATAGAAGGCGTGAGGTCAT
GCTATCCCCCTCTGAAGACGCGGCCGCGAT
```

## CTE2 - 450bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCA
CTTTGAGGCATGTAATATGGTACTGAGCTTCGGCACAGGGCTCAAATTCATCATTAATGTCTCCGATGTGGCTATATG
TCATGGATAAAGGCAGCCCCCTATATCTTTTTTTGTGGCAGCATGGGTCCATCAAAGCAATTATTCAGGGTCTTAATGAC
CTCCACAGCTCTAAACGTAATTCATCTGGCTTTGCCTGTACTTACTTCCTCCATGAAAAAAGTGTTGATAATGCTCATA
ATGCTGCCCAGCAATTTCTCCCTTCTCAAGACTATTCTGGCTTCCTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTG
CTGACAAAATTGCACTCTAAACGCTAGCTTAGGTCTTCTGCGGCCGCGAT
```

## CTE2 - 550bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCGTTAGCTATCGTTTCGCGAGAAAGTTAGTAGACACACAG
GACCCAGGCGTGCAAGTCAATTTAGCTGACTACACCGATTCTGGTTAAAAGAGCCTATGGCCACCCTTATTTTAGAGAA
AAAAAACCACACCTCTAATGTGTTGGGCACTAGAAAAAGCTAACTACCTAGTCCGTTTCTGGACGACTTCATTGGGAATA
```

ACATACCCCCCACTGTGATTAAGACTGGCACTGTCCTAATGCTTTCTTCAATAGGTTTGGCTCATGTGTGATTCCCTCTG  
GCAAACTTATAGAGGACAAGCAGAATAAACCAATTCAAGGTCGTTGTAGCTGAAGGCCTGGCCTGCCTGACAGTTAATTA  
TGAGCATGTCTTGCCCTTCATGGTGGATATTCACAGCTGAAAGTGGTATTGGCATTCTGAGGACACAACGAGGAA  
ATCTGATAAATACGGCCACCTGAAGTCTAGCTCGGAGTTAACAATTTACCACGTTTAGAGCGGCCGCGAT

## CTE2 - 650bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGATCCGCTCGCACTTAGCCTGTTAAGGGGTTTCGCGCTCGTCTA  
GTCTGTGCTGTTGCCTGGATAGTAAATTATCATGGTACAACTTTTAAGAGCCAGTTAAATGGAGATGGATTTAAAAAGA  
GTTATTGTAAAGTCTCCCCAGGTGTGTCATTAAATATCCCAACAGATTGCCCTGGCCTGACCCCTAAATGCAATTTTGG  
GATTCCCTTTTAGTTGCTTTTCATTAAAAATGTACCAGCGCAGTAAAAAAGCACAAAGTATATTGTTTATGTAACCTACTA  
TCTCATTTGCACTGGTTACATGGCAGCTTCAGACTGACTAAACTACACTTTTCCCACCATGGTTCAAAGATCAACAGAA  
CTGGGCCAACAAAAGCAATTTTTTTCATGTGGTCTAACTACCACTTATTATGAGTTAAGTTACTTTTAGGTTTAAATCA  
CAGCAGTTTTTCCCTCCACACCTCCAGAGATACTTTCAGGGTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTG  
TTTCTTTATGGTGTCTGTGTCCTGACAACCGCGTAAGGCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGTG  
CGGCCGCGAT

## CTE2 - 750bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGATCCTTGGACCGTTAATTCATATATCGAAGTAGCAGGTTGTT  
GCCCCGCCTGATGTTGCCACTACTTGCTCATGACAGTTTTTTTTAGGCAATGCAAACTACTATTTGATATTTTTTTCCAAG  
TACAGTTGTAGGGTACTCCTTATACTGATTCTTCTGAGCCTGTACGGGGAGCATTAGGTACTGATGTAGTAGGAGTTGAG  
CTTCACAAATTCACCAGGTAAGCCCAAATTTATTTTCTGCTTGGACAGGTCCACCTCACATGGGTCTGTCTAATATATTA  
AAAGAGGGATTTTCTTTGCTGTATTGCAGCCCAGTATATCTGTTACTTACAGTAGTAGTCCATTATTGCTGGCCTAGGGG  
CTTTTGTCTCTACACGAACACCACTCTGTAAAATTTGAGGTCGTCCTTAGAGTCAAACCATTTCATGGAGCGCTCTGTGCA  
TCTACCAACTATCGCTAAGCATTCACCTTGGTTGGTTTAAAGTGGAGGCAACTCCATTATCTTCTAGCATACCCTTCCCAGG  
CTACATGTAGAAAGAGATCTGTTGGGCCCCACTATTTTTTACCCAGGGAAGCCTACTTTAGTTATAGCTTGCCAGAGAT  
TTTCTGTGTCATGTAGAAAGTCATCCACTTTTAAACACCAGGAGGTGGATGTGGGGCCAGGAAATATGTCAATAACGATACG  
GGACTTCTAACAGTGAATCGCGGCCGCGAT

## CTE2 - 850bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGATCCTTAAGTCGTGTCCTTCTCCTACGATCTTGTGAACGATG  
GATATTTTCTTTCTAAACTTTAAACAAACAGTGGAGAGATGTTGTTGTGTGTGGAACGACGCTTAGCCTACCGAGGAAGA  
TCCAGACTACAATAGAATATGTGGCCAAAACCTCCGCAACTTCAGCAGCAAAAAGGATATTATTGACATAACCTCCTCA  
CAAAAAGTACACAAATGGCTAAATAACAGAGCCCCCTCTTTTACTAGGGAAATGGTGGATGTGGACTTTAGAATTTAAGA  
TAATAAAGCTCTTGATCCCAATGTTATTTCCATGTGAGGGACATTAAATTGAGTAACCTTTGCCACATAACCCTCTCCCAG  
AGTCCATTCTCTAAACTTGAAGCTCCGCCCCCTTTTACGCACATTAGGCTTCCAATTACGGTCAATGGTCTTGAAGATT  
GGGAGCTTTTGAAGAGTAATAAGAACCATCACAAAAAGGAACCCAGAAGCCGGGAGTGTCTACCAAAAAAATTCAAGGGT  
TAAAAAAAGTGACATTTTCTCCTGTTTTCACACATGATTTTGAATGCTGATGGGTCCACGTCCAGCTCTAAAGGTAGG  
TTCATGGTTCTCCAAAGTTGCTTCTTGTGTCAGAATTGAGCCACATCAGGTAGGTGGGGAAGTAGATCAGTGAGGATGCTT  
CACATGTGTGGGCACTGGGAACAGAATGCTTCAATAACACGAGCTGACGAGGGCCCGCTATGAAAAAAAGATTCTCTGT  
GCCCCCTGGCGCCTCCGCACTTAAAGAATTGATGACCGTGCGGCCGCGAT

## CTE1 - 123bp

GATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCCTTTAAGAGTTGCTCTTTTTGTTTGGTAAGTTGCAAATCGAAGT  
TTTAGATTGAGTTCTACGTCGAGCGGCCGCGATATCCTGCAGATGCA

## CTE1 - 223bp

GATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGTGCTTTTGAACCTTT  
TTTTACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGCTAGAAGATGGAGGTATGCAGCCCCTTAGTAGGA  
GTAATACTACCCAGCTTATAACCCCTCAAACGTAGGGCAGATGGCGGCCGCGATATCCTGCAGATGCA

## CTE1 - 323bp

GATCCTAGAGACCATTTCGCGATTCCATGAGACTCCAAGGGTTCTGCACAACCTTATGCACCTCTATTAGATCATTGTGTTC  
TACGAAGCCTGGACTGCATTACATATTCACAACCAACATGAGAAGAGCGGAATAGATGGCCGGATGTTTGGTGGCTTTGA  
TATATTGTGAGGAGCATTGCGAACCCCTAGAGCTGTCCGGTCAAATAACCCCTCACAATAAGTGAATGTCATGGGATAA  
TCAAAGACTAAGGGAGGGCTTTTATAGAAGGCGTGAGGTCATGCTATCCCCCTCTGAAGACGCGGCCGCGATATCCTGC  
AGATGCA

## CTE1 - 423bp

GATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCACCTTTGAGGCATGTAATATGGTACTGAGCTTCGGCACA  
GGGCTCAAATTCATCATTAAATGTCTCCGATGTGGCTATATGTCATGGATAAAGGCAGCCCCCTATATCTTTTTTTGTG  
GCAGCATGGGTCCATCAAAGCAATTATTCAGGGTCTTAATGACCTCCACAGCTCTAAACGTAATTCATCTGGCTTTGCCT  
GTACTTACTTCCTCCATGAAAAAAAGTGTGATAATGCTCATAATGCTGCCAGCAATTTCTCCCTTCTCAAGACTATT  
CTGGCTTCTTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTGCTGACAAAATTGCACTCTAAACGCTAGCTTAGGTCTT  
CTGCGGCCGCGATATCCTGCAGATGCA

## CTE1 - 523bp

GATCCGTTAGCTATCGTTTCGCGAGAAAGTTAGTAGACACACAGGACCCAGGCGTGCAAGTCAATTTAGCTGACTACACC  
GATTCTGGTTAAAAGAGCCTATGGCCACCCTTATTTTAGAGAAAAAAAACCACACCTCTAATGTGTTGGGCACTAGAAAA  
AGCTAACTACCTAGTCCGTTTCTGGACGACTTCATTGGGAATAACATACCCCCCACTGTGATTAAGACTGGCACTGTCTT  
AATGCTTTCTTCAATAGGTTTGGCTCATGTGTGATTCCCTCTGGCAAACCTTATAGAGGACAAGCAGAATAAACCAATTCA  
AGGTGCTTGTAGCTGAAGGCCTGGCCTGCCTGACAGTTAATTATGAGCATGTCTTGCCCTTCATGGTGGATATTCACAGC  
TGAAAGTGGTATTGGCATTTTTTTCTGAGGACACAACGAGGAAATCTGATAAATACGGCCACCTGAAGTCTAGCTCGGAG  
TTAACAATTTACCACGTTTAGAGCGGCCGCGATATCCTGCAGATGCA

## CTE1 - 623bp

GATCCGCTCGCACTTAGCCTGTTAAGGGGTTTCGCGCTCGTCTAGTCTGTGCTGTTGCCTGGATAGTAAATTATCATGGTA  
CAAACCTTTTAAAGAGCCAGTTAAATGGAGATGGATTAAAAAGAGTTATTGTAAAGTCTCCCCAGGTGTGTCATTAAATAT  
CCCAACAGATTGCCCTGGCCTGACCCCTAAATGCAATTTTGGGATTCCCTTTTAGTTGCTTTTCATTAAAATGTACCAGC

GCAGTAAAAAAGCACAAAGTATATTGTTTATGTAACCTACTATCTCATTTGCACTGGTTACATGGCAGCTTCAGACTGA  
CTAAACTACACTTTTCCCACCATGGTTCAAAGATCAACAGAACTGGGCCAACAAAAGCAATTTTTTTCATGTGGTCTAAC  
TACCAACTTATTATGAGTTAAGTTACTTTTAGGTTTAAAATCACAGCAGTTTTTCCCTCCACACCTCCCAGAGATACTTT  
CAGGGTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTGTTTTCTTTATGGTGCTTGTGTCTGACAACCGCGTAAG  
GCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGTGCGGCCGCGATATCCTGCAGATGCA

## CTE1 - 723bp

GATCCTTGACCGTTAATTCATATATCGAAGTAGCAGGTTGTTGCCCGCCTGATGTTGCCACTACTTGCTCATGACAGT  
TTTTTTAGGCAATGCAAACTACTATTTGATATTTTTTCCAAGTACAGTTGTAGGGTACTCCTTATACTGATTCTTCTGA  
GCCTGTACGGGGAGCATTAGGTACTGATGTAGTAGGAGTTGAGCTTCACAAATTCACCAGGTAAGCCCAAATTTATTTTC  
TGCTTGACAGGTCCACCTCACATGGGTCTGTCTAATATATTTAAAGAGGGATTTTCTTTGCTGTATTGCAGCCCAGTAT  
ATCTGTTACTTACAGTAGTAGTCCATTATTGCTGGCCTAGGGGCTTTTGCTCCTACACGAACACCCTCTGTAAAATTTG  
AGGTGCTCCTTAGAGTCAAACCATTCATGGAGCGCTCTGTGCATCTACCAACTATCGCTAAGCATTCACTTGGTTGGTTT  
AAGTGGAGGCAACTCCATTATCTTCTAGCATACCTTCCCAGGCTACATGTAGAAAGAGATCTGTTGGGCCCACTATTT  
TTTCAACCAGGGAAGCCTACTTTAGTTATAGCTTGCCAGAGATTTTCTGTGTCTAGTAGAAGTCATCCACTTTTAACACC  
AGGAGGTGGATGTGGGGCCAGGAAATATGTCAATAACGATACGGGACTTCTAACAGTGAATCGCGGCCGCGATATCCTGC  
AGATGCA

## CTE1 - 823bp

GATCCTTAAGTCGTGTCCTTCTCCTACGATCTTGTGAACGATGGATATTTTCTTTCTAAACTTTAAACAAACAGTGGAGA  
GATGTTGTTGTGTGTGGAACGACGCTTAGCCTACCGAGGAAGATCCAGACTACAATAGAATATGTGGCCAAAACCTCTCCG  
CAACTTCAGCAGCAAAAAAGGATATTATTGACATAACCTCCTCACAAAAGTACACAAATGGCTAAATAACAGAGCCCCCTC  
TTTTTACTAGGGAAATGGTGGATGTGGACTTTAGAATTTAAGATAATAAAGCTCTTGATCCCAATGTTATTTCCATGTGA  
GGGACATTAAATTGAGTAACCTTTGCCACATAACCTCTCCCAGAGTCCATTCTCTAAAACTTGAAGCTCCGCCCTTTTT  
ACGCACATTAGGCTTCCAATTACGGTCAATGGTCTTGAAGATTGGGAGCTTTTGAAGAGTAATAAGAACCATCACAAAA  
GGAACCCAGAAGCCGGGAGTGTCTACCAAAAAAATTCAGGGTTAAAAAAAAGTGACATTTTCTCCTGTTTTTTACACAT  
GATTTTGAATGCTGATGGGTCCACGTCCAGCTCTAAAGGTAGGTTTCATGGTCTCCAAAGTTGCTTTCTTGTGAGAATTG  
AGCCACATCAGGTAGGTGGGGAAAGTAGATCAGTGAGGATGCTTCACATGTGTGGGCACTGGGAACAGAATGCTTCAATAA  
CACGAGCTGACGAGGGCCCGCTATGAAAAAAAAGATTCTCTGTGCCCCCTGGCGCCTCCGCACTTAAAGAATTGATGACC  
GTGCGGCCGCGATATCCTGCAGATGCA

## CTA - 150bp

GGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCTTTAAGAGTTGCTCTTTTTGTTTGGTAAGTTGCAAATCG  
AAGTTTTAGATTGAGTTCTACGTCGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

## CTA - 250bp

GGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGTGCTTTTGAAC  
CTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGCTAGAAAGATGGAGGTATGCAGCCCCTTAGT

AGGAGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCGGCCGCGATATCCTGCAGATGCATCCAGTACT  
AGTATGGCCC

### CTA - 350bp

GGGGGATCCTAGAGACCATTTCGCGATTCCATGAGACTCCAAGGGTTCTGCACAACCTTATGCACCTCTATTAGATCATTGT  
GTTCTACGAAGCCTGGACTGCATTACATATTCAACAACCATGAGAAGAGCGGAATAGATGGCCGGATGTTTGGTGGCT  
TTGATATATTGTGAGGAGCATTGCGAACCCTAGAGCTGTCCGGTCAAATAACCCCTCACAATAAGTGTAATGTCATGGG  
ATAATCAAAAGACTAAGGGAGGGCTTTTATAGAAGGCGTGAGGTCATGCTATCCCCCTCTGAAGACGCGGCCGCGATATC  
CTGCAGATGCATCCAGTACTAGTATGGCCC

### CTA - 450bp

GGGGGATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCACTTTGAGGCATGTAATATGGTACTGAGCTTCGG  
CACAGGGCTCAAATTGCATCATTAATGTCTCCGATGTGGCTATATGTCATGGATAAAGGCAGCCCCCTATATCTTTTTT  
TGTGGCAGCATGGGTCCATCAAAGCAATTATTCAGGGTCTTAATGACCTCCACAGCTCTAAACGTAATTCATCTGGCTTT  
GCCTGTACTTACTTCCTCCATGAAAAAAGTGTGATAATGCTCATAATGCTGCCAGCAATTCCTCCCTTCTCAAGAC  
TATTCTGGCTTCCTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTGCTGACAAAATTGCACTCTAAACGCTAGCTTAGG  
TCTTCTGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

### CTA - 550bp

GGGGGATCCGTTAGCTATCGTTTCGCGAGAAAAGTTAGTAGACACACAGGACCCAGGCGTGCAAGTCAATTTTCACTGACTA  
CACCGATTCTGGTTAAAAGAGCCTATGGCCACCCTTATTTTAGAGAAAAAAACCACACCTCTAATGTGTTGGGCACTAG  
AAAAAGCTAACTACCTAGTCCGTTTCTGGACGACTTCATTGGGAATAACATACCCCCCACTGTGATTAAGACTGGCACTG  
TCCTAATGCTTTCTTCAATAGGTTTGGCTCATGTGTGATTCCCTCTGGCAAACCTTATAGAGGACAAGCAGAATAAACCAA  
TTCAAGGTGCTTGTAGCTGAAGGCCTGGCCTGCCTGACAGTTAATTATGAGCATGTCTTGCCCTTCATGGTGGATATTCA  
CAGCTGAAAGTGGTATTGGCATTTTTTTCTGAGGACACAACGAGGAAATCTGATAAATACGGCCACCTGAAGTCTAGCTC  
GGAGTTAACAATTTACCACGTTTAGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

### CTA - 650bp

GGGGGATCCGCTCGCACTTAGCCTGTTAAGGGGTTTCGCGCTCGTCTAGTCTGTGCTGTTGCCTGGATAGTAAATTATCAT  
GGTACAAACTTTTAAGAGCCAGTTAAATGGAGATGGATTTAAAAAGAGTTATTGTAAAGTCTCCCCAGGTGTGTCATTAA  
ATATCCCAACAGATTGCCCTGGCCTGACCCCTAAATGCAATTTTGGGATTCCCTTTTAGTTGCTTTCATTAAAATGTAC  
CAGCGCAGTAAAAAAGCACAAAGTATATTGTTTATGTAATCACTATCTCATTTGCACTGGTTACATGGCAGCTTCAGA  
CTGACTAAAACCTACACTTTTCCCACCATGGTTCAAAGATCAACAGAACTGGGCCAACAAAAGCAATTTTTTTCATGTGGTC  
TAACTACCAACTTATTATGAGTTAAGTTACTTTTAGGTTTAAATCACAGCAGTTTTTCCCTCCACACCTCCAGAGATA  
CTTTCAGGGTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTGTTTTCTTTATGGTGCTTGTGTCCTGACAACCGCG  
TAAGGCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGTGCGGCCGCGATATCCTGCAGATGCATCCAGTACT  
AGTATGGCCC

## CTA - 750bp

GGGGGATCCTTGGACCGTTAATTCATATATCGAAGTAGCAGGTTGTTGCCCCGCCTGATGTTGCCACTACTTGCTCATGA  
CAGTTTTTTTTAGGCAATGCAAACTACTATTTGATATTTTTTTTCCAAGTACAGTTGTAGGGTACTCCTTATACTGATTCTT  
CTGAGCCTGTACGGGGAGCATTAGGTACTGATGTAGTAGGAGTTGAGCTTCACAAATTCACCAGGTAAGCCCCAAATTTAT  
TTTCTGCTTGGACAGGTCCACCTCAGATGGGTCTGTCTAATATATTTAAAGAGGGATTTTCTTTGCTGTATTGCAGCCCA  
GTATATCTGTTACTTACAGTAGTAGTCCATTATTGCTGGCCTAGGGGCTTTTGCTCCTACACGAACACCCTCTGTAAAA  
TTTGAGGTGCTCCTTAGAGTCAAACCATTCATGGAGCGCTCTGTGCATCTACCAACTATCGCTAAGCATTCACTTGGTTG  
GTTTAAAGTGGAGGCAACTCCATTATCTTCTAGCATACCCCTCCAGGCTACATGTAGAAAGAGATCTGTTGGGCCCCACT  
ATTTTTTTCACCCAGGGAAGCCTACTTTAGTTATAGCTTGCCAGAGATTTTCTGTGTCTATGTAGAAGTCATCCACTTTTAA  
CACCAGGAGGTGGATGTGGGGCCAGGAAATATGTCAATAACGATACGGGACTTCTAACAGTGAAGTCTCGCGCCGCGATATC  
CTGCAGATGCATCCAGTACTAGTATGGCCC

## CTA - 850bp

GGGGGATCCTTAAGTCGTGTCCTTCTCCTACGATCTTGTGAACGATGGATATTTTCTTTCTAACTTTAAACAAACAGTG  
GAGAGATGTTGTTGTGTGTGGAACGACGCTTAGCCTACCGAGGAAGATCCAGACTACAATAGAATATGTGGCCAAAACCTC  
TCCGCAACTTCAGCAGCAAAAAGGATATTATTGACATAACCTCCTCACAAAAGTACACAAATGGCTAAATAACAGAGCC  
CCTCTTTTTTACTAGGGAAATGGTGGATGTGGACTTTAGAATTTAAGATAATAAAGCTCTTGATCCCAATGTTATTTCCAT  
GTGAGGGACATTAAATTGAGTAACCTTTGCCACATACCCTCTCCAGAGTCCATTCTCTAAACTTGAAGCTCCGCCCCCT  
TTTTACGCACATTAGGCTTCCAATTACGGTCAATGGTCTTGAAGATTGGGAGCTTTTGAAGAGTAATAAGAACCATCACA  
AAAAGGAACCCAGAAGCCGGGAGTGTCTACCAAAAAAATTCAAGGGTTAAAAAAGTACATTTTCTCCTGTTTTTTTAC  
ACATGATTTTGAATGCTGATGGGTCCACGTCCAGCTCTAAAGGTAGGTTTCATGGTTCTCAAAGTTGCTTTCTTGTCAGA  
ATTGAGCCACATCAGGTAGGTGGGGAAGTAGATCAGTGAGGATGCTTCACATGTGTGGGCACTGGGAACAGAATGCTTCA  
ATAACACGAGCTGACGAGGGCCCCGCTATGAAAAAAAAGATTCTCTGTGCCCCCTGGCGCCTCCGCACCTAAAGAATTGAT  
GACCGTGCGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

## CTL - 150bp

AGTATGGCCCGGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCTTTAAGAGTTGCTCTTTTTGTTTGGTAAG  
TTGCAAATCGAAGTTTTAGATTGAGTTCTACGTCGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACA

## CTL - 250bp

AGTATGGCCCGGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGT  
GCTTTTGAACCTTTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGCTAGAAGATGGAGGTATGCA  
GCCCGTTAGTAGGAGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCGGCCGCGATATCCTGCAGATGC  
ATCCAGTACA

## CTL - 350bp

AGTATGGCCCGGGGGATCCTAGAGACCATTCGCGATTCCATGAGACTCCAAGGGTTCTGCACAACCTTATGCACCTCTATT  
AGATCATTGTGTTCTACGAAGCCTGGACTGCATTACATATTCACAACCAACATGAGAAGAGCGGAATAGATGGCCGGATG

TTTGGTGGCTTTGATATATTGTGAGGAGCATTGCGAACCCTAGAGCTGTCCGGTCAAATAACCCCTCACATAAGTGTA  
ATGTCATGGGATAATCAAAAGACTAAGGGAGGGCTTTTATAGAAGGCGTGAGGTCATGCTATCCCCCTCTGAAGACGCGG  
CCGCGATATCCTGCAGATGCATCCAGTACA

### CTL - 450bp

AGTATGGCCCGGGGATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCACTTTGAGGCATGTAATATGGTAC  
TGAGCTTCGGCACAGGGCTCAAATTGCATCATTAATGTCTCCGATGTGGCTATATGTCATGGATAAAGGCAGCCCCCTA  
TATCTTTTTTTTGTGGCAGCATGGGTCCATCAAAGCAATTATTCAGGGTCTTAATGACCTCCACAGCTCTAAACGTAATTC  
ATCTGGCTTTGCCTGTACTTACTTCCTCCATGAAAAAAGTGTGATAATGCTCATAATGCTGCCCAGCAATTTCTCTCC  
TTCTCAAGACTATTCTGGCTTCCTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTGCTGACAAAATTGCACTCTAAACG  
CTAGCTTAGGTCTTCTGCGGCCGCGATATCCTGCAGATGCATCCAGTACA

### CTL - 550bp

AGTATGGCCCGGGGATCCGTTAGCTATCGTTTCGCGAGAAAGTTAGTAGACACACAGGACCCAGGCGTGCAAGTCAATTT  
CAGCTGACTACACCGATTCTGGTTAAAAGAGCCTATGGCCACCCTTATTTTAGAGAAAAAAACCACACCTCTAATGTGT  
TGGGCACTAGAAAAAGCTAACTACCTAGTCCGTTTCTGGACGACTTCATTGGGAATAACATACCCCCCACTGTGATTAAG  
ACTGGCACTGTCTAATGCTTTCTTCAATAGGTTTGGCTCATGTGTGATTCCTCTGGCAAATTTATAGAGGACAAGCAG  
AATAAACCAATTCAAGGTCGTTGTAGCTGAAGGCCGTCCTGACAGTTAATTATGAGCATGTCTTGCCCTTCATGG  
TGGATATTCACAGCTGAAAGTGGTATTGGCATTTTTTCTGAGGACACAACGAGGAAATCTGATAAATACGGCCACCTGA  
AGTCTAGCTCGGAGTTAACAATTTACCACGTTTAGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACA

### CTL - 650bp

AGTATGGCCCGGGGATCCGCTCGCACTTAGCCTGTTAAGGGGTTTCGCGCTCGTCTAGTCTGTGCTGTTGCCTGGATAGT  
AAATTATCATGGTACAACTTTTAAGAGCCAGTTAAATGGAGATGGATTTAAAAGAGTTATTGTAAAGTCTCCCCAGGT  
GTGTCATTAAATATCCCAACAGATTGCCCTGGCCTGACCCCTAAATGCAATTTTGGGATTCCCTTTTAGTTGCTTTTCAT  
TAAATGTACCAGCGCAGTAAAAAAGCACAAAGTATATTGTTTATGTAACCTCACTATCTCATTTGCACTGGTTACATGG  
CAGCTTCAGACTGACTAAAACCTACACTTTTCCCACCATGGTTCAAAGATCAACAGAACTGGGCCAACAAAAGCAATTTTT  
TCATGTGGTCTAACTACCAACTTATTATGAGTTAAGTTACTTTTAGGTTTAAATCACAGCAGTTTTTCCCTCCACACCT  
CCCAGAGATACTTTCAGGGTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTGTTTCTTTATGGTGCTTGTGTCCT  
GACAACCGCGTAAGGCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGTGCGGCCGCGATATCCTGCAGATGC  
ATCCAGTACA

### CTL - 750bp

AGTATGGCCCGGGGATCCTTGACCGTTAATTCATATATCGAAGTAGCAGGTTGTTGCCCCGCCTGATGTTGCCACTAC  
TTGCTCATGACAGTTTTTTTAGGCAATGCAAACCTACTATTTGATATTTTTTTTCCAAGTACAGTTGTAGGGTACTCCTTAT  
ACTGATTCTTCTGAGCCTGTACGGGGAGCATTAGGTACTGATGTAGTAGGAGTTGAGCTTCACAAATTCACCAGGTAAGC  
CCAAATTTATTTTCTGCTTGGACAGGTCCACCTCACATGGGTCTGTCTAATATATTTAAAGAGGGATTTTCTTTGCTGTA  
TTGAGCCCAGTATATCTGTTACTTACAGTAGTAGTCCATTATTGCTGGCCTAGGGGCTTTTGCTCCTACACGAACACCA

CTCTGTAAAATTTGAGGTCGTCCCTAGAGTCAAACCATTTCATGGAGCGCTCTGTGCATCTACCAACTATCGCTAAGCATT  
CACTTGGTTGGTTTAAAGTGGAGGCAACTCCATTATCTTCTAGCATACCCTTCCCAGGCTACATGTAGAAAGAGATCTGTT  
GGGCCCCACTATTTTTTCACCCAGGGAAGCCTACTTTAGTTATAGCTTGCCAGAGATTTTCTGTGTCATGTAGAAGTCAT  
CCACTTTTAACACCAGGAGGTGGATGTGGGGCCAGGAAATATGTCAATAACGATACGGGACTTCTAACAGTGACTCGCGG  
CCGCGATATCCTGCAGATGCATCCAGTACA

## CTL - 850bp

AGTATGGCCCGGGGATCCTTAAGTCGTGTCCTTCTCCTACGATCTTGTGAACGATGGATATTTTCTTTCTAAACTTTAA  
ACAAACAGTGGAGAGATGTTGTTGTGTGTGGAACGACGCTTAGCCTACCGAGGAAGATCCAGACTACAATAGAATATGTG  
GCCAAAACCTCTCCGCAACTTCAGCAGCAAAAAGGATATTATTGACATAACCTCCTCACAAAAAGTACACAAATGGCTAAA  
TAACAGAGCCCCCTCTTTTTACTAGGGAAATGGTGGATGTGGACTTTAGAATTTAAGATAATAAAGCTCTTGATCCCAATG  
TTATTTCCATGTGAGGGACATTAAATTGAGTAACCTTTGCCACATACCCTCTCCCAGAGTCCATTCTCTAAAACCTGAAG  
CTCCGCCCCCTTTTTACGCACATTAGGCTTCCAATTACGGTCAATGGTCTTGAAGATTGGGAGCTTTTGAAGAGTAATAAG  
AACCATCACAAAAAGGAACCCAGAAGCCGGGAGTGTCTACCAAAAAAATTCAAGGGTTAAAAAAAAGTGACATTTTCTCC  
TGTTTTTTTACACATGATTTTGAATGCTGATGGGTCCACGTCCAGCTCTAAAGGTAGGTTTCATGGTTCTCCAAAGTTGCTT  
TCTTGTGAGAATTGAGCCACATCAGGTAGGTGGGGAAGTAGATCAGTGAGGATGCTTCACATGTGTGGGCACTGGGAACA  
GAATGCTTCAATAACACGAGCTGACGAGGGCCCGCTATGAAAAAAAAGATTCTCTGTGCCCCCTGGCGCCTCCGCACTTA  
AAGAATTGATGACCGTGCGGCCGCGATATCCTGCAGATGCATCCAGTACA

# Legacy Kits

This section lists legacy kits that are no longer sold.

## Nextera DNA Sample Prep Kit (Epicentre Biotechnologies)

(Obsolete)

### Transposon Sequences

5' - GCCTCCCTCGCGCCATCAGAGATGTGTATAAGAGACAG

5' - GCCTTGCCAGCCCGCTCAGAGATGTGTATAAGAGACAG

### Adapters (Showing Optional Bar Code)

5' - AATGATACGGCGACCACCGAGATCTACACGCTCCCTCGCGCCATCAG

5' - CAAGCAGAAGACGGCATACGAGAT [barcode] CGGTCTGCCTTGCCAGCCCGCTCAG-3'

### PCR Primers

5' - AATGATACGGCGACCACCGA

5' - CAAGCAGAAGACGGCATACGA

## TruSeq Synthetic Long-Read DNA

(Obsolete)

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

### Long Reads Adapter

5' CCGGTTCTTCCCTGCCGAACCCTATCTTCGTCGGCAGCGTCAGATGTGTATAAGAGACAGTACGCTTGCAT

## TruSeq DNA Methylation

### Adapter Trimming

The following sequence is used for adapter trimming.

**Read 1**

AGATCGGAAGAGCACACGTCTGAAC

**Read 2**

AGATCGGAAGAGCGTCGTGTAGGGA

**TruSeq Universal Adapter**

5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

**Index PCR Primers**

5' CAAGCAGAAGACGGCATACGAGAT[6 bases]GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT

**Index Adapters**

| <b>Index Name</b> | <b>Six-Base Sequence for Sample Sheet</b> |
|-------------------|-------------------------------------------|
| Index 1           | ATCACG                                    |
| Index 2           | CGATGT                                    |
| Index 3           | TTAGGC                                    |
| Index 4           | TGACCA                                    |
| Index 5           | ACAGTG                                    |
| Index 6           | GCCAAT                                    |
| Index 7           | CAGATC                                    |
| Index 8           | ACTTGA                                    |
| Index 9           | GATCAG                                    |
| Index 10          | TAGCTT                                    |
| Index 11          | GGCTAC                                    |
| Index 12          | CTTGTA                                    |

**TruSeq Ribo Profile****Adapter Trimming**

The following sequence is used for adapter trimming.

AGATCGGAAGAGCACACGTCT

### 3' Adapter

5' AGATCGGAAGAGCACACGTCT

### Forward PCR Primer

5' ATGATACGGCGACCACCGAGATCTACACGTTTCAGAGTTCTACAGTCCGACG

### Index PCR Primers

5' CAAGCAGAAGACGGCATACGAGAT[6 bases]GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT

### Index Adapters

| i7 Index Name | Six-Base Sequence for Sample Sheet |
|---------------|------------------------------------|
| A001          | ATCACG                             |
| A002          | CGATGT                             |
| A003          | TTAGGC                             |
| A004          | TGACCA                             |
| A005          | ACAGTG                             |
| A006          | GCCAAT                             |
| A007          | CAGATC                             |
| A008          | ACTTGA                             |
| A009          | GATCAG                             |
| A010          | TAGCTT                             |
| A011          | GGCTAC                             |
| A012          | CTTGTA                             |

## Oligonucleotide Sequences for Genomic DNA

(Obsolete)

### Adapters

5' P-GATCGGAAGAGCTCGTATGCCGTCTTCTGCTTG

5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

## PCR Primers

5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

5' CAAGCAGAAGACGGCATACGAGCTCTTCCGATCT

## Genomic DNA Sequencing Primer

5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

# Oligonucleotide Sequences for Paired End (PE) DNA

(Obsolete)

## 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 Kit

(Obsolete)

## 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 Sequences 1–12

### 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' CAAGCAGAAGACGGCATACGAGATTCAAGTGACTGGAGTTC

### 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 Small RNA v1 and v1.5 Kits

(Obsolete)

RT Primer

5' CAAGCAGAAGACGGCATACGA

5' RNA Adapter

5' GUUCAGAGUUCUACAGUCCGACGAUC

3' RNA Adapter

5' P-UCGUAUGCCGUCUUCUGCUUGUIdT

Small RNA v1.5 3' Adapter

5' /5rApp/ATCTCGTATGCCGTCTTCTGCTTG/3ddC/

Small RNA PCR Primer 1

5' CAAGCAGAAGACGGCATACGA

Small RNA PCR Primer 2

5' AATGATACGGCGACCAACGACAGGTTTCAGAGTTCTACAGTCCGA

Small RNA Sequencing Primer

5' CGACAGGTTTCAGAGTTCTACAGTCCGACGATC



Illumina

5200 Illumina Way

San Diego, California 92122 U.S.A.

+1.800.809.ILMN (4566)

+1.858.202.4566 (outside North America)

[techsupport@illumina.com](mailto:techsupport@illumina.com)

[www.illumina.com](http://www.illumina.com)

**For Research Use Only. Not for use in diagnostic procedures.**

© 2021 Illumina, Inc. All rights reserved.

**illumina®**