



# Illumina Adapter Sequences

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## Revision History

Document	Date	Description of Change
Document # 1000000002694 v17	February 2023	<p>Updated references to NextSeq to include NextSeq 1000.</p> <p>Added NovaSeq X Series to the i5 sample sheet v2.</p> <p>For IDT for Illumina Indexes, Plate D/Set 4, corrected UDP0289, UDP0290, UDP0291, and UDP0301 sequences for i5 bases for sample sheets of the following instruments:</p> <ul style="list-style-type: none"> <li>• iSeq 100</li> <li>• NovaSeq 6000 with v1.5 reagent kits</li> <li>• MiniSeq</li> <li>• NextSeq 500/550</li> <li>• HiSeq 3000/4000/X</li> <li>• NextSeq 1000/2000 (sample sheet v1)</li> </ul> <p>Added A-tailing information for TruSeq workflows.</p> <p>Added information on the workflows used to prime and read the i5 index (Index 2).</p> <p>Added adapter trimming sequences for TruSight DNA Enrichment, TruSight Tumor 170 and TruSight Oncology 500, TruSight Oncology ctDNA, and TruSight RNA Pan-Cancer Panel kits.</p>
Document # 1000000002694 v16	April 2021	Added HTML format.

Document	Date	Description of Change
Document # 1000000002694 v15	February 2021	Corrected i7 bases in adapters sequences for TruSeq indexes. 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 # 1000000002694 v14	July 2020	Added information in support of the NovaSeq 6000 Reagent Kit v1.5. Added adapter sequencing for IDT for Illumina-PCR UD Indexes Set 1, 2, 3, and 4.
Document # 1000000002694 v13	June 2020	Replaced UDI0015, UDI0016, UDI0055, UDI0056, UDP0252, UDP0258, UDP0289, UDP0290, UDP0291, and UDP0301 with V2 versions. Updated Nextera section to reflect new kit names. Added NextSeq 2000 to the IDT for Illumina–TruSeq DNA and RNA UD Indexes table.
Document # 1000000002694 v12	March 2020	Added information for HiSeq X. Added information for NextSeq 2000. Added TruSight Oncology 500 adapter sequences. Corrected the following information: <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 # 1000000002694 v11	April 2019	Added adapter sequences for IDT for Illumina Nextera DNA UD Indexes Sets B, C, and D.

Document	Date	Description of Change
Document # 1000000002694 v10	February 2019	<p>Added sequences for AmpliSeq UD Indexes for Illumina and AmpliSeq CD Indexes.</p> <p>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 # 1000000002694 v09	November 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	Date	Description of Change
Document # 1000000002694 v08	October 2018	Added IDT for Illumina Nextera DNA UD Indexes.
Document # 1000000002694 v07	June 2018	Added the iSeq 100 Sequencing System, which requires a reverse complement.
Document # 1000000002694 v06	February 2018	Added TruSight Tumor 170 indexes.
Document # 1000000002694 v05	February 2018	Updated IDT for Illumina to include 96 indexes.
Document # 1000000002694 v04	January 2018	Added AmpliSeq for Illumina Panels.
Document # 1000000002694 v03	October 2017	Corrected i5 bases for Nextera DNA CD Indexes for use with MiSeq and HiSeq systems. Reorganized TruSeq sections.
Document # 1000000002694 v02	September 2017	Added adapters for Nextera DNA CD Indexes.
Document # 1000000002694 v01	February 2016	Added explanation of reverse complements in the sample sheet. Corrected i5 adapter names for TruSight One to E502–E505. Added adapters for TruSight RNA Pan-Cancer, TruSeq DNA Methylation, and TruSeq Ribo Profile. Added MiniSeq, which requires a reverse complement.

Document	Date	Description of Change
Document # 1000000002694 v00	October 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 .....	23
Sequences for AmpliSeq for Illumina Panels .....	26
Sequences for TruSight Kits .....	29
TruSight Amplicon Panels .....	29
TruSight DNA Enrichment Kits .....	30
TruSight Tumor 170 and TruSight Oncology 500 .....	31
TruSight Oncology ctDNA .....	35
TruSight Tumor 15 .....	37
TruSight RNA Pan-Cancer Panel .....	38
Sequences for TruSeq Kits .....	41
IDT for Illumina–TruSeq DNA and RNA UD Indexes .....	41
TruSeq DNA and RNA CD Indexes .....	46
TruSeq Single Indexes .....	48
TruSeq Amplicon Kits .....	50
TruSeq Small RNA .....	51
TruSeq Targeted RNA Expression .....	55
Process Controls for TruSeq Kits .....	58
Legacy Kits .....	66
Nextera DNA Sample Prep Kit (Epicentre Biotechnologies) .....	66
TruSeq Synthetic Long-Read DNA .....	66
TruSeq DNA Methylation .....	66
TruSeq Ribo Profile .....	67
Oligonucleotide Sequences for Genomic DNA .....	68
Oligonucleotide Sequences for Paired End (PE) DNA .....	69
Oligonucleotide Sequences for the Multiplexing Sample Prep Oligo-Only Kit .....	69
Oligonucleotide Sequences for the Small RNA v1 and v1.5 Kits .....	71



# Introduction

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

The [library prep kit support pages](#) on the Illumina support site provide additional resources. These resources include software, training, and compatible products. Always check support pages for the latest versions.

## 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 1000/2000 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 Illumina Cloud Run Planning, 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 1000/2000 uses an in-solution primer for Index 2. However, the DRAGEN on-instrument platform automatically creates the reverse complement i5 indexes during secondary analysis.
  - If you are using Illumina Cloud Run Planning 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, Illumina Cloud Run Planning, BaseSpace Sequence Hub Prep tab, and Local Run Manager record adapter trimming sequences for Illumina kits in the sample sheet. For specific settings, refer to the documentation for your software. Illumina Cloud Run Planning is documented in the [BaseSpace Sequence Hub Run Planning](#) is documented in the [Illumina Cloud Run Planning Product Documentation](#).

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

Sequencing instruments prime and read the i5 index (Index 2) using one of the following workflows:

- **Forward Strand**—This workflow uses the oligo lawn on the flow cell, before the paired-end turnaround, to prime the i5 Index Read.
- **Reverse Complement**—This workflow uses a dedicated i5 Index Sequencing Primer to prime the i5 Index Read after paired-end turnaround.

Bcl2fastq and BaseSpace Sequence Hub FASTQ Generation (which use sample sheets created with Illumina Experiment Manager) use the particular i5 index workflow as sequenced by the instrument used. This documentation provides the i5 sequences as they are read by each instrument.

Regardless of instrument, Local Run Manager, BCL Convert, BaseSpace Sequence Hub Prep tab, and Illumina Cloud Run Planning always use the Forward Strand workflow.

## 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, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0001	CGCTCAGTTC	GAAGTGAAGCG	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

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, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
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
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	ACGTTCTCTTA
UDP0024	GTATGTAGAA	TTCTACATAC	CTAACTGTAA	CTAACTGTAA	TTACAGTTAG
UDP0025	TTCTATGGTT	AACCATAGAA	GGCGAGATGG	GGCGAGATGG	CCATCTCGCC

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, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0026	CCTCGCAACC	GGTTGCGAGG	AATAGAGCAA	AATAGAGCAA	TTGCTCTATT
UDP0027	TGGATGCTTA	TAAGCATCCA	TCAATCCATT	TCAATCCATT	AATGGATTGA
UDP0028	ATGTCGTGGT	ACCACGACAT	TCGTATGCGG	TCGTATGCGG	CCGCATACGA
UDP0029	AGAGTGCGGC	GCCGCACTCT	TCCGACCTCG	TCCGACCTCG	CGAGGTCGGA
UDP0030	TGCCTGGTGG	CCACCAGGCA	CTTATGGAAT	CTTATGGAAT	ATTCCATAAG
UDP0031	TGCGTGTAC	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
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

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, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0046	TAATGGATCT	AGATCCATTA	ATCTCTACCA	ATCTCTACCA	TGGTAGAGAT
UDP0047	TATCCAGGAC	GTCCTGGATA	CGGTGGCGAA	CGGTGGCGAA	TTCGCCACCG
UDP0048	AGTGCCACTG	CAGTGGCACT	TAACAATAGG	TAACAATAGG	CCTATTGTTA
UDP0049	GTGCAACACT	AGTGTTCAC	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	CTCGTGC GTT	AACGCACGAG	GCCTCGGATA	GCCTCGGATA	TATCCGAGGC
UDP0057	TTAGGATAGA	TCTATCCTAA	CGTCGACTGG	CGTCGACTGG	CCAGTCGACG
UDP0058	CCGAAGCGAG	CTCGCTTCGG	TACTAGTCAA	TACTAGTCAA	TTGACTAGTA
UDP0059	GGACCAACAG	CTGTTGGTCC	ATAGACCGTT	ATAGACCGTT	AACGGTCTAT
UDP0060	TTCCAGGTAA	TTACCTGGAA	ACAGTTCCAG	ACAGTTCCAG	CTGGAAGTGT
UDP0061	TGATTAGCCA	TGGCTAATCA	AGGCATGTAG	AGGCATGTAG	CTACATGCCT
UDP0062	TAACAGTGTT	AACACTGTTA	GCAAGTCTCA	GCAAGTCTCA	TGAGACTTGC
UDP0063	ACCGCGCAAT	ATTGCGCGGT	TTGGCTCCGC	TTGGCTCCGC	GCGGAGCCAA
UDP0064	GTTGCGGCCA	TGGCGCGAAC	AACTGATACT	AACTGATACT	AGTATCAGTT
UDP0065	AGACACATTA	TAATGTGTCT	GTAAGGCATA	GTAAGGCATA	TATGCCTTAC

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, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
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	GGTGTAACAAG	CTTGTAACACC	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
UDP0083	GTAAGGCATA	TATGCCTTAC	AGACACATTA	AGACACATTA	TAATGTGTCT
UDP0084	GTCCACTTGT	ACAAGTGGAC	GCGCGATGTT	GCGCGATGTT	AACATCGCGC
UDP0085	TTAGGTACCA	TGGTACCTAA	CATGAGTACT	CATGAGTACT	AGTACTCATG

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, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (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	CGTGTCTGTG
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	TGTTGTTCGT	TGTTGTTCGT	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

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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0117	TCGGTCACGG	CCGTGACCGA	CCGAACGTTG	CCGAACGTTG	CAACGTTCCGG
UDP0118	GAACAAGTAT	ATACTTGTTT	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	TCTTGCTAT	ATAGCCAAGA	AGTGCCACTG	AGTGCCACTG	CAGTGGCACT
UDP0131	TCACACCGAA	TTCGGTGTGA	GAACAAGTAT	GAACAAGTAT	ATACTTGTTT
UDP0132	AACGTTACAT	ATGTAACGTT	ACGATTGCTG	ACGATTGCTG	CAGCAATCGT
UDP0133	CGGCCTCGTT	AACGAGGCCG	ATACCTGGAT	ATACCTGGAT	ATCCAGGTAT
UDP0134	CATAACACCA	TGGTGTTATG	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

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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0139	ATAGGTATTC	GAATACCTAT	ACAATAGAGT	ACAATAGAGT	ACTCTATTGT
UDP0140	CCTTCACGTA	TACGTGAAGG	CGGTTATTAG	CGGTTATTAG	CTAATAACCG
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	ACGTTCTTA	GACCGCTGTG	GACCGCTGTG	CACAGCGGTC
UDP0148	CTATACGCGG	CCGCGTATAG	TAGGAACCGG	TAGGAACCGG	CCGGTTCTTA
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	TCCGGACTAG	GACGAACAAT	GACGAACAAT	ATTGTTTCGTC
UDP0160	GCTCCGTCAC	GTGACGGAGC	TGGCGGTCCA	TGGCGGTCCA	TGGACCGCCA

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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0161	AGATGGAATT	AATTCCATCT	CTTCAGTTAC	CTTCAGTTAC	GTAAGTGAAG
UDP0162	ACACCGTTAA	TTAACGGTGT	TCCTGACCGT	TCCTGACCGT	ACGGTCAGGA
UDP0163	GATAACAAGT	ACTTGTTATC	CGCGCCTAGA	CGCGCCTAGA	TCTAGGCGCG
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

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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0183	GCTGTAGGAA	TTCCTACAGC	GGCGAATTCT	GGCGAATTCT	AGAATTCGCC
UDP0184	ATACCTGGAT	ATCCAGGTAT	CAACGTCAGC	CAACGTCAGC	GCTGACGTTG
UDP0185	GTTGGACCGT	ACGGTCCAAC	TCTTACATCA	TCTTACATCA	TGATGTAAGA
UDP0186	ACCAAGTTAC	GTAACCTGGT	CGCCATACCT	CGCCATACCT	AGGTATGGCG
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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0193	TATCATGAGA	TCTCATGATA	AACACGTGGA	AACACGTGGA	TCCACGTGTT
UDP0194	CTTGCCCTCG	CGAGGCCAAG	GTGTTACCGG	GTGTTACCGG	CCGGTAACAC
UDP0195	GTCTCGTGAA	TTCACGAGAC	AGATTGTTAC	AGATTGTTAC	GTAACAATCT
UDP0196	CCATCCACGC	GCGTGGATGG	TTGACCAATG	TTGACCAATG	CATTGGTCAA
UDP0197	ACAACCAGGA	TCCTGGTTGT	CTGACCGGCA	CTGACCGGCA	TGCCGGTCAG
UDP0198	AGCAGAATTA	TAATTCTGCT	TCTCATCAAT	TCTCATCAAT	ATTGATGAGA
UDP0199	CAGTCGTGCG	CGCACGACTG	GGACCAACAG	GGACCAACAG	CTGTTGGTCC
UDP0200	GTCTAACCTC	GAGGTTAGAC	AATGTATTGC	AATGTATTGC	GCAATACATT
UDP0201	GAACTCGGTT	AACCGAGTTC	GATCTCTGGA	GATCTCTGGA	TCCAGAGATC
UDP0202	AGTTATCACA	TGTGATAACT	CAGGCGCCAT	CAGGCGCCAT	ATGGCGCCTG
UDP0203	GTAGCATACT	AGTATGCTAC	TTAATAGACC	TTAATAGACC	GGTCTATTAA
UDP0204	CTTCAGTTAC	GTAAGTGAAG	GGAGTCGCGA	GGAGTCGCGA	TCGCGACTCC
UDP0205	AGTCCGAGGA	TCCTCGGACT	AACGCCAGAG	AACGCCAGAG	CTCTGGCGTT
UDP0206	ACAGTTCCAG	CTGGAAGTGT	CGTAATTAAC	CGTAATTAAC	GTTAATTACG
UDP0207	CCGCATATTC	GAATATGCGG	ACGAGACTGA	ACGAGACTGA	TCAGTCTCGT
UDP0208	TTATCCGATC	GATCGGATAA	GTATCGGCCG	GTATCGGCCG	CGGCCGATAC
UDP0209	ATAGTCTAGC	GCTAGACTAT	AATACGACAT	AATACGACAT	ATGTCGTATT
UDP0210	TATAGTAGCT	AGCTACTATA	GTTATATGGC	GTTATATGGC	GCCATATAAC
UDP0211	ACTCCGGTGG	CCACCGGAGT	GCCTGCCATG	GCCTGCCATG	CATGGCAGGC
UDP0212	GTGCGGTAAG	CTTACCGCAC	TAAGACCTAT	TAAGACCTAT	ATAGGTCTTA
UDP0213	GATATCCTAA	TTAGGATATC	TATACCATGG	TATACCATGG	CCATGGTATA
UDP0214	TCGCGTATAA	TTATACGCGA	GCCGTCTGTT	GCCGTCTGTT	AACAGACGGC

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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0215	ATTCTAAGCG	CGCTTAGAAT	CAGAGTGATA	CAGAGTGATA	TATCACTCTG
UDP0216	AGCGCTTCGG	CCGAAGCGCT	TGCTAACTAT	TGCTAACTAT	ATAGTTAGCA
UDP0217	GTTGATAGTG	CACTATCAAC	TCAGTTAATG	TCAGTTAATG	CATTAAGTGA
UDP0218	AATAGAGCAA	TTGCTCTATT	GTGACCTTGA	GTGACCTTGA	TCAAGGTCAC
UDP0219	CTAACTGTAA	TTACAGTTAG	ACATGCATAT	ACATGCATAT	ATATGCATGT
UDP0220	GCGTACTTAG	CTAAGTACGC	AACATACCTA	AACATACCTA	TAGGTATGTT
UDP0221	TACCGAACTA	TAGTTCGGTA	CCATGTGTAG	CCATGTGTAG	CTACACATGG
UDP0222	GTAGTAATAG	CTATTACTAC	GAGTCTCTCC	GAGTCTCTCC	GGAGAGACTC
UDP0223	GGTTATGCTA	TAGCATAACC	GCTATGCGCA	GCTATGCGCA	TGCGCATAGC
UDP0224	ACAATAGAGT	ACTCTATTGT	ATCGCATATG	ATCGCATATG	CATATGCGAT
UDP0225	GCTTCCACTA	TAGTGGAAGC	AGTACCTATA	AGTACCTATA	TATAGGTACT
UDP0226	AGATATGGCG	CGCCATATCT	GACCGGAGAT	GACCGGAGAT	ATCTCCGGTC
UDP0227	AATATGAAGC	GCTTCATATT	CGTTCAGCCT	CGTTCAGCCT	AGGCTGAACG
UDP0228	TAGCGCTAGT	ACTAGCGCTA	TTACTTCCTC	TTACTTCCTC	GAGGAAGTAA
UDP0229	AGTTAAGAGC	GCTCTTAACT	CACGTCCACC	CACGTCCACC	GGTGGACGTG
UDP0230	CAGATACCAC	GTGGTATCTG	GCTACTATCT	GCTACTATCT	AGATAGTAGC
UDP0231	ACGGCCGTC	TGACGGCCGT	AGTCAACCAT	AGTCAACCAT	ATGGTTGACT
UDP0232	GTAATTACTG	CAGTAATTAC	CGAGGCGGTA	CGAGGCGGTA	TACCGCCTCG
UDP0233	AAGTCTTGTA	TACAAGACTT	CAGGTGTTCA	CAGGTGTTCA	TGAACACCTG
UDP0234	GTCACCACAG	CTGTGGTGAC	GACAGACAGG	GACAGACAGG	CCTGTCTGTC
UDP0235	ATTAGTGGAG	CTCCACTAAT	TGTACTTGTT	TGTACTTGTT	AACAAGTACA
UDP0236	TGCTAACTAT	ATAGTTAGCA	CTCTAAGTAG	CTCTAAGTAG	CTACTTAGAG

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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0237	TAAGACCTAT	ATAGGTCTTA	GTCACCACAG	GTCACCACAG	CTGTGGTGAC
UDP0238	TGGTTAAGAA	TTCTTAACCA	TCTACATACC	TCTACATACC	GGTATGTAGA
UDP0239	ACTCTTCCTT	AAGGAAGAGT	CACGTTAGGC	CACGTTAGGC	GCCTAACGTG
UDP0240	GTCTCCTTCC	GGAAGGAGAC	TGGTGAGTCT	TGGTGAGTCT	AGACTCACCA
UDP0241	TCCGCGTTCA	TGAACGCGGA	CTTCGAAGGA	CTTCGAAGGA	TCCTTCGAAG
UDP0242	AGGTTGCAGG	CCTGCAACCT	GTAGAGTCAG	GTAGAGTCAG	CTGACTCTAC
UDP0243	GAACCATGAA	TTCATGGTTC	GACATTGTCA	GACATTGTCA	TGACAATGTC
UDP0244	TTGAGAGGAT	ATCCTCTCAA	TCCGCAAGGC	TCCGCAAGGC	GCCTTGCGGA
UDP0245	TGGTCTAGTG	CACTAGACCA	ACTGCCTTAT	ACTGCCTTAT	ATAAGGCAGT
UDP0246	AGTGGATAAT	ATTATCCACT	TACGCACGTA	TACGCACGTA	TACGTGCGTA
UDP0247	GGCACGCCAT	ATGGCGTGCC	CGCTTGAAGT	CGCTTGAAGT	ACTTCAAGCG
UDP0248	GATCTCTGGA	TCCAGAGATC	CTGCACTTCA	CTGCACTTCA	TGAAGTGCAG
UDP0249	TGCTGGACAT	ATGTCCAGCA	CAGCGGACAA	CAGCGGACAA	TTGTCCGCTG
UDP0250	CCGAACGTTG	CAACGTTCCG	GGATCCGCAT	GGATCCGCAT	ATGCGGATCC
UDP0251	ATTAATACGC	GCGTATTAAT	TGCGGTGTTG	TGCGGTGTTG	CAACACCGCA
UDP0252V2	CCAGATTCGG	CCGAATCTGG	ATGAATCAAG	ATGAATCAAG	CTTGATTTCAT
UDP0252	TAGTCACAAC	GTTGTGACTA	ACATAACGGA	ACATAACGGA	TCCGTTATGT
UDP0253	GGTATTGAGA	TCTCAATACC	GACGTTGCGG	GACGTTGCGG	CGCGAACGTC
UDP0254	CAAGATGCTT	AAGCATCTTG	CATTCAACAA	CATTCAACAA	TTGTTGAATG
UDP0255	ACGAGACTGA	TCAGTCTCGT	CACGGATTAT	CACGGATTAT	ATAATCCGTG
UDP0256	TTATCTTGCA	TGCAAGATAA	TTGAGGACGG	TTGAGGACGG	CCGTCCTCAA
UDP0257	AGATTGTTAC	GTAACAATCT	CTCTGTATAC	CTCTGTATAC	GTATACAGAG



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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0258V2	TATACCATGG	CCATGGTATA	TCTCGCGGAG	TCTCGCGGAG	CTCCGCGAGA
UDP0258	TCTACCGCTG	CAGCGGTAGA	GCAACAGGTG	GCAACAGGTG	CACCTGTTGC
UDP0259	AACGGTATGA	TCATACCGTT	GGTAACGCAG	GGTAACGCAG	CTGCGTTACC
UDP0260	CAATGGCGCC	GGCGCCATTG	ACCGCGCAAT	ACCGCGCAAT	ATTGCGCGGT
UDP0261	CTAATTCGCT	AGCGAATTAG	AGCCGGAACA	AGCCGGAACA	TGTTCCGGCT
UDP0262	CATGGTCTAA	TTAGACCATG	TCCTAGGAAG	TCCTAGGAAG	CTTCCTAGGA
UDP0263	ATACTGTGTG	CACACAGTAT	TTGAGCCTAA	TTGAGCCTAA	TTAGGCTCAA
UDP0264	GCCGACAAGA	TCTTGTTCGGC	CCACCTGTGT	CCACCTGTGT	ACACAGGTGG
UDP0265	CGAGGCGGTA	TACCGCCTCG	CCTCGCAACC	CCTCGCAACC	GGTTGCGAGG
UDP0266	GATATAACAG	CTGTTATATC	GTATAGCTGT	GTATAGCTGT	ACAGCTATAC
UDP0267	TCGCCGGTTA	TAACCGGCGA	GCTACATTAG	GCTACATTAG	CTAATGTAGC
UDP0268	AGACTCTCTT	AAGAGAGTCT	TACGAATCTT	TACGAATCTT	AAGATTTCGTA
UDP0269	GCTCGCCTAC	GTAGGCGAGC	TAGGAGCGCA	TAGGAGCGCA	TGCGCTCCTA
UDP0270	AGGATAAGTT	AACTTATCCT	GTACTGGCGT	GTACTGGCGT	ACGCCAGTAC
UDP0271	GAGACATAAT	ATTATGTCTC	AGTTAAGAGC	AGTTAAGAGC	GCTCTTAACT
UDP0272	AGCTGTTATA	TATAACAGCT	TCGCGTATAA	TCGCGTATAA	TTATACGCGA
UDP0273	GTATCATTTG	CCAATGATAC	GAGTGTGCCG	GAGTGTGCCG	CGGCACACTC
UDP0274	AATAGGCCTC	GAGGCCTATT	CTAGTCCGGA	CTAGTCCGGA	TCCGGACTAG
UDP0275	CCGCTTAGCT	AGCTAAGCGG	ATTAATACGC	ATTAATACGC	GCGTATTAAT
UDP0276	TCCTAGGAAG	CTTCCTAGGA	CCTAGAGTAT	CCTAGAGTAT	ATACTCTAGG
UDP0277	TCACAGATCG	CGATCTGTGA	TAGGAAGACT	TAGGAAGACT	AGTCTTCCTA
UDP0278	ACTTGTCCAC	GTGGACAAGT	CCGTGGCCTT	CCGTGGCCTT	AAGGCCACGG

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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0279	TGTACTTGTT	AACAAGTACA	GGATATATCC	GGATATATCC	GGATATATCC
UDP0280	CACTTAATCT	AGATTAAGTG	CACCTCTTGG	CACCTCTTGG	CCAAGAGGTG
UDP0281	CAGAGTGATA	TATCACTCTG	AACGTTACAT	AACGTTACAT	ATGTAACGTT
UDP0282	GGCGAATTCT	AGAATTCGCC	CGGCAAGCTC	CGGCAAGCTC	GAGCTTGCCG
UDP0283	AGTGGTCAGG	CCTGACCACT	TCTTGGCTAT	TCTTGGCTAT	ATAGCCAAGA
UDP0284	CATTCCAGCT	AGCTGGAATG	ACGGAATGCG	ACGGAATGCG	CGCATTCCGT
UDP0285	CTCGTTATCA	TGATAACGAG	GTTCCGCAGG	GTTCCGCAGG	CCTGCGGAAC
UDP0286	CCTTACTATG	CATAGTAAGG	ACCAAGTTAC	ACCAAGTTAC	GTAAGTTGGT
UDP0287	AGAAGCCAAT	ATTGGCTTCT	TGGCTCGCAG	TGGCTCGCAG	CTGCGAGCCA
UDP0288	TAATCGGTAC	GTACCGATTA	AACCTAACGTT	AACCTAACGTT	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 NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0289V2	GCTACTATCT	AGATAGTAGC	GGCACGCCAT	GGCACGCCAT	ATGGCGTGCC
UDP0289	GGAATTGTTC	GAACAATTCC	TAGAGTTGGA	TAGAGTTGGA	TCCAACCTCTA
UDP0290V2	GTCTTCTAAT	ATTAGAAGAC	GCAGGCTGGA	GCAGGCTGGA	TCCAGCCTGC
UDP0290	CCGGACCACA	TGTGGTCCGG	AGAGCACTAG	AGAGCACTAG	CTAGTGCTCT
UDP0291V2	ATGTGCGAGC	GCTCGCACAT	ATGGCTTAAT	ATGGCTTAAT	ATTAAGCCAT
UDP0291	GACTTAGAAG	CTTCTAAGTC	ACTCTACAGG	ACTCTACAGG	CCTGTAGAGT
UDP0292	TGGCAATATT	AATATTGCCA	CGGTGACACC	CGGTGACACC	GGTGTACCCG
UDP0293	GAATGCACGA	TCGTGCATTC	GCGTTGGTAT	GCGTTGGTAT	ATACCAACGC
UDP0294	CGTGTATCTT	AAGATACACG	TGTGCTAACA	TGTGCTAACA	TGTTAGCACA
UDP0295	ATTCATTGCA	TGCAATGAAT	CCAGAAGTAA	CCAGAAGTAA	TTACTTCTGG
UDP0296	TCCTTCATAG	CTATGAAGGA	CTTATACCTG	CTTATACCTG	CAGGTATAAG
UDP0297	TCTAGTCTTC	GAAGACTAGA	ACTAGAACTT	ACTAGAACTT	AAGTTCTAGT
UDP0298	CTCGACTCCT	AGGAGTCGAG	TTAGGCTTAC	TTAGGCTTAC	GTAAGCCTAA
UDP0299	AGTGAGTGAA	TTCACTCACT	TATCATGAGA	TATCATGAGA	TCTCATGATA
UDP0300	GAAGCGGACC	GGTCCGCTTC	CTCACACAAG	CTCACACAAG	CTTGTGTGAG
UDP0301V2	CAAGCCACTA	TAGTGGCTTG	AGTTACTTGG	AGTTACTTGG	CCAAGTAACT
UDP0301	GCTCTCGTTG	CAACGAGAGC	GAATTGAGTG	GAATTGAGTG	CACTCAATTC
UDP0302	GGACCTCAAT	ATTGAGGTCC	CGGATTATAT	CGGATTATAT	ATATAATCCG
UDP0303	GAGTCTCTCC	GGAGAGACTC	TTGAAGCAGA	TTGAAGCAGA	TCTGCTTCAA
UDP0304	AACGGAGCGG	CCGCTCCGTT	TACGGCGAAG	TACGGCGAAG	CTTCGCCGTA
UDP0305	TGTGATGTAT	ATACATCACA	TCTCCATTGA	TCTCCATTGA	TCAATGGAGA
UDP0306	AACATACCTA	TAGGTATGTT	CGAGACCAAG	CGAGACCAAG	CTTGGTCTCG

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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0307	GTGCTAGGTG	CACCTAGCAC	TGCTGGACAT	TGCTGGACAT	ATGTCCAGCA
UDP0308	CATACTTGAA	TTCAAGTATG	GATGGTATCG	GATGGTATCG	CGATACCATC
UDP0309	CTTGTCTTAA	TTAAGACAAG	GGCTTAATTG	GGCTTAATTG	CAATTAAGCC
UDP0310	AAGAGAGGTG	CACCTCTCTT	CTCGACTCCT	CTCGACTCCT	AGGAGTCGAG
UDP0311	TGCACGAGAA	TTCTCGTGCA	ATACACAGAG	ATACACAGAG	CTCTGTGTAT
UDP0312	ACTTCCTAGC	GCTAGGAAGT	TCTCGGACGA	TCTCGGACGA	TCGTCCGAGA
UDP0313	GTGCTATTAA	TTAATAGCAC	ACCACGTCTG	ACCACGTCTG	CAGACGTGGT
UDP0314	AGCGTGAATG	CATTCACGCT	GTTGTACTCA	GTTGTACTCA	TGAGTACAAC
UDP0315	CCTTAGTGCC	GGCACTAAGG	TCAGGTCAAC	TCAGGTCAAC	GTTGACCTGA
UDP0316	TGTACCGAAT	ATTCCGTACA	AGTCCGAGGA	AGTCCGAGGA	TCCTCGGACT
UDP0317	GGAGATTAGT	ACTAATCTCC	CACTTAATCT	CACTTAATCT	AGATTAAGTG
UDP0318	TACTAACACA	TGTGTTAGTA	TACTCTGTTA	TACTCTGTTA	TAACAGAGTA
UDP0319	TAGGTCGTTG	CAACGACCTA	GCGACTCGAT	GCGACTCGAT	ATCGAGTCGC
UDP0320	ATGCCGACCG	CGGTCGGCAT	CTAGGCAAGG	CTAGGCAAGG	CCTTGCCTAG
UDP0321	CTAGCGTCGA	TCGACGCTAG	CCTCTTCGAA	CCTCTTCGAA	TTCGAAGAGG
UDP0322	TGCCTACGAG	CTCGTAGGCA	TCATCCTCTT	TCATCCTCTT	AAGAGGATGA
UDP0323	ACTAGAACTT	AAGTTCTAGT	GGTAAGATAA	GGTAAGATAA	TTATCTTACC
UDP0324	CACCTCTTGG	CCAAGAGGTG	AACGAGCCAG	AACGAGCCAG	CTGGCTCGTT
UDP0325	AAGCAGATAT	ATATCTGCTT	TAGACAATCT	TAGACAATCT	AGATTGTCTA
UDP0326	GCCAGATCCA	TGGATCTGGC	CAATGCTGAA	CAATGCTGAA	TTCAGCATTG
UDP0327	TTGGATTCAA	TTGAATCCAA	GTCACGGTGT	GTCACGGTGT	ACACCGTGAC
UDP0328	ACTAGCCGTG	CACGGCTAGT	GGTGTACAAG	GGTGTACAAG	CTTGTACACC

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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0329	CGGCAAGCTC	GAGCTTGCCG	AGGTTGCAGG	AGGTTGCAGG	CCTGCAACCT
UDP0330	GAAGCTAGCT	AGCTAGCTTC	TAATACGGAG	TAATACGGAG	CTCCGTATTA
UDP0331	ACAAGGATTG	CAATCCTTGT	CGAAGACGCA	CGAAGACGCA	TGCGTCTTCG
UDP0332	GCAACAGGTG	CACCTGTTGC	ATTGACACAT	ATTGACACAT	ATGTGTCAAT
UDP0333	CAAGGTGACG	CGTCACCTTG	CAGCCGATTG	CAGCCGATTG	CAATCGGCTG
UDP0334	ACCAGTCATT	AATGACTGGT	TCTCACGCGT	TCTCACGCGT	ACGCGTGAGA
UDP0335	CCGGAATCAT	ATGATTCCGG	CTCTGACGTG	CTCTGACGTG	CACGTCAGAG
UDP0336	TTGAGCCTAA	TTAGGCTCAA	TCGAATGGAA	TCGAATGGAA	TTCCATTCTGA
UDP0337	CCACCTTACA	TGTAAGGTGG	AAGGCCTTGG	AAGGCCTTGG	CCAAGGCCTT
UDP0338	GTTGCAGTTG	CAACTGCAAC	TGAACGCAAC	TGAACGCAAC	GTTGCGTTCA
UDP0339	TCACTCATGT	ACATGAGTGA	CCGCTTAGCT	CCGCTTAGCT	AGCTAAGCGG
UDP0340	GACTGGTTGC	GCAACCAGTC	CACCGAGGAA	CACCGAGGAA	TTCTCTCGGTG
UDP0341	ATCGTCGCTC	GAGCGACGAT	CGTATAATCA	CGTATAATCA	TGATTATACG
UDP0342	GGTGCCTTCG	CGAACGCACC	ATGACAGAAC	ATGACAGAAC	GTTCTGTTCAT
UDP0343	CGGCGTAAGA	TCTTACGCCG	ATTCATTGCA	ATTCATTGCA	TGCAATGAAT
UDP0344	GACATCAGCT	AGCTGATGTC	TCATGTCCTG	TCATGTCCTG	CAGGACATGA
UDP0345	ACTAATTCAG	CTGAATTAGT	AATTCGATCG	AATTCGATCG	CGATCGAATT
UDP0346	TTCTCTCTTA	TAAGGAGGAA	TTCCGACATT	TTCCGACATT	AATGTCGGAA
UDP0347	TGTGTAAGCT	AGCTTACACA	TGGCACGACC	TGGCACGACC	GGTCGTGCCA
UDP0348	GTGGCTGGTT	AACCAGCCAC	GCCACAGCAC	GCCACAGCAC	GTGCTGTGGC
UDP0349	TCGACTTAAG	CTTAAGTCGA	CAGTAGTTGT	CAGTAGTTGT	ACAACACTGT
UDP0350	CACGTTAGGC	GCCTAACGTG	AGCTCTCAAG	AGCTCTCAAG	CTTGAGAGCT

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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0351	TGAAGTAAGT	ACTTACTTCA	TCTGGAATTA	TCTGGAATTA	TAATTCCAGA
UDP0352	ACGGAATGCG	CGCATTCCGT	ATTAGTGGAG	ATTAGTGGAG	CTCCACTAAT
UDP0353	GTGTGATATC	GATATCACAC	GACTATATGT	GACTATATGT	ACATATAGTC
UDP0354	ACACAGCGCT	AGCGCTGTGT	CGTTCGGAAC	CGTTCGGAAC	GTTCCGAACG
UDP0355	AGCGCGGTGA	TCACCGCGCT	TCGATACTAG	TCGATACTAG	CTAGTATCGA
UDP0356	CAAGGCTATC	GATAGCCTTG	TACCACAATG	TACCACAATG	CATTGTGGTA
UDP0357	TGCGTCCAGG	CCTGGACGCA	TGGTATACCA	TGGTATACCA	TGGTATACCA
UDP0358	AGGTGCGTAA	TTACGCACCT	GCTCTCGTTG	GCTCTCGTTG	CAACGAGAGC
UDP0359	GCAGCAACGA	TCGTTGCTGC	GTCTCGTGAA	GTCTCGTGAA	TTCACGAGAC
UDP0360	ATCCTTGTCG	CGACAAGGAT	AAGGCCACCT	AAGGCCACCT	AGGTGGCCTT
UDP0361	GAAGGTACAC	GTGTACCTTC	CTGTGAGCTA	CTGTGAGCTA	TAGCTCACAG
UDP0362	TTGGCCAGGT	ACCTGGCCAA	TCACAGATCG	TCACAGATCG	CGATCTGTGA
UDP0363	AGGCCAGACA	TGTCTGGCCT	AGAAGCCAAT	AGAAGCCAAT	ATTGGCTTCT
UDP0364	AGCATTAAC	AGTTAATGCT	ACTGCAGCCG	ACTGCAGCCG	CGGCTGCAGT
UDP0365	ATTACTCACC	GGTGAGTAAT	AACATCTAGT	AACATCTAGT	ACTAGATGTT
UDP0366	GCGCAGAGTA	TACTCTGCGC	CCTTACTATG	CCTTACTATG	CATAGTAAGG
UDP0367	CGCCATACCT	AGGTATGGCG	GTGGCGAGAC	GTGGCGAGAC	GTCTCGCCAC
UDP0368	GCAGGCTGGA	TCCAGCCTGC	GCCAGATCCA	GCCAGATCCA	TGGATCTGGC
UDP0369	GTTATATGGC	GCCATATAAC	ACACAATATC	ACACAATATC	GATATTGTGT
UDP0370	CACTCGCACT	AGTGCGAGTG	TGGAGGTAAT	TGGAGGTAAT	ATTACCTCCA
UDP0371	ACCGGCTCAG	CTGAGCCGGT	CCTTCACGTA	CCTTCACGTA	TACGTGAAGG
UDP0372	ATAGACCGTT	AACGGTCTAT	CTATACGCGG	CTATACGCGG	CCGCGTATAG

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, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDP0373	TGAACGCAAC	GTTGCGTTCA	GTTGCAGTTG	GTTGCAGTTG	CAACTGCAAC
UDP0374	GTGGTTGAAG	CTTCAACCAC	TTATGCGCCT	TTATGCGCCT	AGGCGCATAA
UDP0375	ACTGAATAGA	TCTATTCAGT	TCTCAGTACA	TCTCAGTACA	TGTACTGAGA
UDP0376	GGACGTCTTG	CAAGACGTCC	AGTATACGGA	AGTATACGGA	TCCGTATACT
UDP0377	GTTGTACTCA	TGAGTACAAC	ACGCTTGGAC	ACGCTTGGAC	GTCCAAGCGT
UDP0378	AGAACCGCGG	CCGCGGTTCT	GGAGTAGATT	GGAGTAGATT	AATCTACTCC
UDP0379	CAGTATCAAT	ATTGATACTG	TACACGCTCC	TACACGCTCC	GGAGCGTGTA
UDP0380	TCCATAATCC	GGATTATGGA	TCCGATAGAG	TCCGATAGAG	CTCTATCGGA
UDP0381	ATGAGAACCA	TGGTTCTCAT	CTCAAGGCCG	CTCAAGGCCG	CGGCCTTGAG
UDP0382	TCGTGGTTGA	TCAACCACGA	CAAGTTCATA	CAAGTTCATA	TATGAACTTG
UDP0383	CAAGTTCATA	TATGAACTTG	AATCCTTAGG	AATCCTTAGG	CCTAAGGATT
UDP0384	CTTAACCACT	AGTGGTTAAG	GGTGGAATAC	GGTGGAATAC	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	GACGTCGA	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	
		NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample 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.

Sequencing instruments prime and read the i5 index (Index 2) using one of the following workflows:

- **Forward Strand**—This workflow uses the oligo lawn on the flow cell, before the paired-end turnaround, to prime the i5 Index Read.
- **Reverse Complement**—This workflow uses a dedicated i5 Index Sequencing Primer to prime the i5 Index Read after paired-end turnaround.

Bcl2fastq and BaseSpace Sequence Hub FASTQ Generation (which use sample sheets created with Illumina Experiment Manager) use the particular i5 index workflow as sequenced by the instrument used. This documentation provides the i5 sequences as they are read by each instrument.

Regardless of instrument, Local Run Manager, BCL Convert, BaseSpace Sequence Hub Prep tab, and Illumina Cloud Run Planning always use the Forward Strand workflow.

## Adapter Trimming

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

CTGTCTCTTATACACATCT

## Index 1 (i7) Adapters

CAAGCAGAAGACGGCATACGAGAT [ i7 ] 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

i7 Index Name	i7 Bases for Sample Sheet
Q7025	ACTAAGAT
Q7026	GTCGGAGC
Q7027	AGCCTCAT
Q7028	GATTCTGC
Q7029	TCGTAGTG
Q7030	CTACGACA
Q7035	ATGGCATG
Q7036	GCAATGCA
Q7039	CTTATCGG
Q7040	TCCGCTAA
Q7041	GATCTATC
Q7042	AGCTCGCT
Q7047	ACACTAAG
Q7048	GTGTCGGA

## Index 2 (i5) Adapters

AATGATACGGCGACCAACCGAGATCTACAC [i5] TCGTCGGCAGCGTCAGATGTGTATAAGAGACAG

i5 Index Name	i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
Q5001	AGCGCTAG	CTAGCGCT
Q5002	GATATCGA	TCGATATC
Q5003	CGCAGACG	CGTCTGCG
Q5004	TATGAGTA	TACTCATA
Q5007	ACATAGCG	CGCTATGT
Q5008	GTGCGATA	TATCGCAC
Q5009	CCAACAGA	TCTGTTGG

<b>i5 Index Name</b>	<b>i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (Sample Sheet v2)</b>	<b>i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with v1.5 reagent kits, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 1000/2000 (Sample Sheet v1)</b>
Q5010	TTGGTGAG	CTCACCAA
Q5013	AACCGCGG	CCGCGGTT
Q5014	GGTTATAA	TTATAACC
Q5017	CTAGCTTG	CAAGCTAG
Q5018	TCGATCCA	TGGATCGA
Q5025	ATACCAAG	CTTGGTAT
Q5026	GCGTTGGA	TCCAACGC
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.

Sequencing instruments prime and read the i5 index (Index 2) using one of the following workflows:

- **Forward Strand**—This workflow uses the oligo lawn on the flow cell, before the paired-end turnaround, to prime the i5 Index Read.
- **Reverse Compliment**—This workflow uses a dedicated i5 Index Sequencing Primer to prime the i5 Index Read after paired-end turnaround.

Bcl2fastq and BaseSpace Sequence Hub FASTQ Generation (which use sample sheets created with Illumina Experiment Manager) use the particular i5 index workflow as sequenced by the instrument used. This documentation provides the i5 sequences as they are read by each instrument.

Regardless of instrument, Local Run Manager, BCL Convert, BaseSpace Sequence Hub Prep tab, and Illumina Cloud Run Planning always use the Forward Strand workflow.

## 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 NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
A501	TGAACCTT	AAGGTTCA
A502	TGCTAAGT	ACTTAGCA
A503	TGTTCTCT	AGAGAACA
A504	TAAGACAC	GTGTCTTA
A505	CTAATCGA	TCGATTAG
A506	CTAGAACA	TGTTCTAG
A507	TAAGTTCC	GGAACTTA
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.

## Adapter Trimming

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

CTGTCTCTTATACACATCT

## Index 1 (i7) Adapters

i7 Index Name	i7 Bases for Sample Sheet
N701	TAAGGCGA
N702	CGTACTAG
N703	AGGCAGAA
N704	TCCTGAGC
N705	GGACTCCT
N706	TAGGCATG
N707	CTCTCTAC

i7 Index Name	i7 Bases for Sample Sheet
N708	CAGAGAGG
N709	GCTACGCT
N710	CGAGGCTG
N711	AAGAGGCA
N712	GTAGAGGA

## Index 2 (i5) Adapter

i5 Index Name	i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
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

### Adapter Trimming

The following sequences are used for adapter trimming.

Read 1

AGATCGGAAGAGCACACGTCTGAACTCCAGTCA

Read 2

AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGT

## RNA 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
D703	UP10	CGCTCATT
D710	UP11	TCCGCGAA
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 NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
D503	UP01	CCTATCCT	AGGATAGG
D504	UP02	GGCTCTGA	TCAGAGCC
D509	UP03	TTCGGATG	CATCCGAA



i5 Index Name	Index Primer	i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
D510	UP04	ACTCATAA	TTATGAGT
D513	UP05	TTATTTCGT	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

i7 Index Name	Index Primer	i7 Bases for Sample Sheet
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 NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
D507	CP01	CAGGACGT	ACGTCCTG
D508	CP02	GTACTGAC	GTCAGTAC
D519	CP03	GGCGACGG	CCGTCGCC
D520	CP04	CCTCGGAC	GTCCGAGG
D507	CP05	CAGGACGT	ACGTCCTG
D507	CP06	CAGGACGT	ACGTCCTG
D507	CP07	CAGGACGT	ACGTCCTG
D508	CP08	GTACTGAC	GTCAGTAC
D508	CP09	GTACTGAC	GTCAGTAC
D508	CP10	GTACTGAC	GTCAGTAC
D519	CP11	GGCGACGG	CCGTCGCC

i5 Index Name	Index Primer	i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
D519	CP12	GGCGACGG	CCGTCGCC
D519	CP13	GGCGACGG	CCGTCGCC
D520	CP14	CCTCGGAC	GTCCGAGG
D520	CP15	CCTCGGAC	GTCCGAGG
D520	CP16	CCTCGGAC	GTCCGAGG

## TruSight Oncology ctDNA

### Adapter Trimming

The following sequences are used for adapter trimming.

Read 1

AGATCGGAAGAGCACACGTCTGAACTCCAGTCA

Read 2

AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGT

### 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

i7 Index Name	Index Primer	i7 Bases for Sample Sheet
D713	UP08	GAATAATC
D715	UP09	TTAATCAG
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 NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
A501	TGAACCTT	AAGGTTCA
A502	TGCTAAGT	ACTTAGCA

## TruSight RNA Pan-Cancer Panel

## Adapter Trimming

The following sequences are used for adapter trimming.

## Read 1

AGATCGGAAGAGCACACGTCTGAACTCCAGTCA

## Read 2

AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGT

## 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' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCAGTGATCTCGTATGCCGTCTTCTGCTTG

#### 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' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTCGCACATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 19

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTAACCGATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 20

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTTGCCTTATCTCGTATGCCGTCTTCTGCTTG

#### 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



# 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.

Sequencing instruments prime and read the i5 index (Index 2) using one of the following workflows:

- **Forward Strand**—This workflow uses the oligo lawn on the flow cell, before the paired-end turnaround, to prime the i5 Index Read.
- **Reverse Complement**—This workflow uses a dedicated i5 Index Sequencing Primer to prime the i5 Index Read after paired-end turnaround.

Bcl2fastq and BaseSpace Sequence Hub FASTQ Generation (which use sample sheets created with Illumina Experiment Manager) use the particular i5 index workflow as sequenced by the instrument used. This documentation provides the i5 sequences as they are read by each instrument.

Regardless of instrument, Local Run Manager, BCL Convert, BaseSpace Sequence Hub Prep tab, and Illumina Cloud Run Planning always use the Forward Strand workflow.

A-tailing is performed before adapter ligation. For example, the additional A base is in parentheses in the i7 adapter as follows:

Index 1 (i7) Adapters

(A)GATCGGAAGAGCACACGTCTGAACTCCAGTCAC[i7]ATCTCGTATGCCGTCTTCTGCTTG

### 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, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
UDI0001	CCGCGGTT	CCGCGGTT	AGCGCTAG	AGCGCTAG	CTAGCGCT
UDI0002	TTATAACC	TTATAACC	GATATCGA	GATATCGA	TCGATATC
UDI0003	GGACTTGG	GGACTTGG	CGCAGACG	CGCAGACG	CGTCTGCG
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

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, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
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
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

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, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
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
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	GTTCGCCG	GTTCGCCG	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

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, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
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	CCATTCGA	CCATTCGA	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
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

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, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
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	TTCTTGTT
UDI0092	ACGCACCT	ACGCACCT	GGTGAAGG	GGTGAAGG	CCTTCACC
UDI0093	TACTCATA	TACTCATA	CCTGTGGC	CCTGTGGC	GCCACAGG
UDI0094	CGTCTGCG	CGTCTGCG	TTCACAAT	TTCACAAT	ATTGTGAA
UDI0095	TCGATATC	TCGATATC	ACACGAGT	ACACGAGT	ACTCGTGT
UDI0096	CTAGCGCT	CTAGCGCT	GTGTAGAC	GTGTAGAC	GTCTACAC

## TruSeq DNA and RNA CD Indexes

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

A-tailing is performed before adapter ligation. For example, the additional A base is in parentheses in the i7 adapter as follows:

Index 1 (i7) Adapters

(A)GATCGGAAGAGCACACGTCTGAACTCCAGTCAC[i7]ATCTCGTATGCCGTCTTCTGCTTG

## 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
D710	TCCGCGAA
D711	TCTCGCGC
D712	AGCGATAG

## Index 2 (i5) Adapters

AATGATACGGCGACCACCGAGATCTACAC [ i 5 ] ACACTCTTTCCCTACACGACGCTCTTCCGATCT

i5 Index Name	i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (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

A-tailing is performed before adapter ligation. For example, the additional A base is in parentheses in the i7 adapter as follows:

### Index 1 (i7) Adapters

(A)GATCGGAAGAGCACACGTCTGAACTCCAGTCAC[i7]ATCTCGTATGCCGTCTTCTGCTTG

### Adapter Trimming

The following sequences are used for adapter trimming.

#### Read 1

AGATCGGAAGAGCACACGTCTGAACTCCAGTCA

#### Read 2

AGATCGGAAGAGCGTCGTGTAGGGAAAGAGTGT

## TruSeq Universal Adapter

5' AATGATACGGCGACCACCGAGATCTTACACTCTTTCCCTACACGACGCTCTTCCGATCT

## 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' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCATCATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 2

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCGATGTATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 3

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAGGCATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 4

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACTGACCAATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 5

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCACAGTGATCTCGTATGCCGTCTTCTGCTTG

#### 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' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTCCGCACATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 19

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTAACGATCTCGTATGCCGTCTTCTGCTTG

#### Index Adapter 20

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTCGCCTTATCTCGTATGCCGTCTTCTGCTTG

#### 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
A705	ACCCAGCA
A706	AACCCCTC
A707	CCCAACCT
A708	CACCACAC

i7 Index Name	i7 Bases for Sample Sheet
A709	GAAACCCA
A710	TGTGACCA
A711	AGGGTCAA
A712	AGGAGTGG

## Index 2 (i5) Adapters

i5 Index Name	i5 Bases for Sample Sheet NovaSeq 6000 with v1.0 reagent kits, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (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 1000/2000 (Sample Sheet v1)
A501	TGAACCTT	AAGGTTCA
A502	TGCTAAGT	ACTTAGCA
A503	TGTTCTCT	AGAGAACA
A504	TAAGACAC	GTGTCTTA
A505	CTAATCGA	TCGATTAG
A506	CTAGAACA	TGTTCTAG
A507	TAAGTTCC	GGAACTTA
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' TGGAATTCTCGGGTGCCAAGG

## 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

Index Name	Six-Base Sequence in Adapter	Six-Base Sequence for Sample Sheet
Index 1 (RPI1)	CGTGAT	ATCACG
Index 2 (RPI2)	ACATCG	CGATGT
Index 3 (RPI3)	GCCTAA	TTAGGC
Index 4 (RPI4)	TGGTCA	TGACCA
Index 5 (RPI5)	CACTGT	ACAGTG
Index 6 (RPI6)	ATTGGC	GCCAAT
Index 7 (RPI7)	GATCTG	CAGATC
Index 8 (RPI8)	TCAAGT	ACTTGA
Index 9 (RPI9)	CTGATC	GATCAG

Index Name	Six-Base Sequence in Adapter	Six-Base Sequence for Sample Sheet
Index 10 (RPI10)	AAGCTA	TAGCTT
Index 11 (RPI11)	GTAGCC	GGCTAC
Index 12 (RPI12)	TACAAG	CTTGTA
Index 13 (RPI13)	TTGACT	AGTCAA
Index 14 (RPI14)	GGAACT	AGTTCC
Index 15 (RPI15)	TGACAT	ATGTCA
Index 16 (RPI16)	GGACGG	CCGTCC
Index 17 (RPI17)	CTCTAC	GTAGAG
Index 18 (RPI18)	GCGGAC	GTCCGC
Index 19 (RPI19)	TTTCAC	GTGAAA
Index 20 (RPI20)	GGCCAC	GTGGCC
Index 21 (RPI21)	CGAAAC	GTTTCG
Index 22 (RPI22)	CGTACG	CGTACG
Index 23 (RPI23)	CCACTC	GAGTGG
Index 24 (RPI24)	GCTACC	GGTAGC
Index 25 (RPI25)	ATCAGT	ACTGAT

Index Name	Six-Base Sequence in Adapter	Six-Base Sequence for Sample Sheet
Index 26 (RPI26)	GCTCAT	ATGAGC
Index 27 (RPI27)	AGGAAT	ATTCCT
Index 28 (RPI28)	CTTTTG	CAAAAG
Index 29 (RPI29)	TAGTTG	CAACTA
Index 30 (RPI30)	CCGGTG	CACCGG
Index 31 (RPI31)	ATCGTG	CACGAT
Index 32 (RPI32)	TGAGTG	CACTCA
Index 33 (RPI33)	CGCCTG	CAGGCG
Index 34 (RPI34)	GCCATG	CATGGC
Index 35 (RPI35)	AAAATG	CATTTT
Index 36 (RPI36)	TGTTGG	CCAACA
Index 37 (RPI37)	ATTCCG	CGGAAT
Index 38 (RPI38)	AGCTAG	CTAGCT
Index 39 (RPI39)	GTATAG	CTATAC
Index 40 (RPI40)	TCTGAG	CTCAGA
Index 41 (RPI41)	GTCGTC	GACGAC

Index Name	Six-Base Sequence in Adapter	Six-Base Sequence for Sample Sheet
Index 42 (RPI42)	CGATTA	TAATCG
Index 43 (RPI43)	GCTGTA	TACAGC
Index 44 (RPI44)	ATTATA	TATAAT
Index 45 (RPI45)	GAATGA	TCATTC
Index 46 (RPI46)	TCGGGA	TCCCGA
Index 47 (RPI47)	CTTCGA	TCGAAG
Index 48 (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
R711	GGCTAC
R712	CTTGTA

i7 Index Name	i7 Bases for Sample Sheet
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	CAAAAG
R729	CAACTA
R730	CACCGG
R731	CACGAT
R732	CACTCA
R733	CAGGCG
R734	CATGGC
R735	CATTTT
R736	CCAACA
R737	CGGAAT
R738	CTAGCT
R739	CTATAC
R740	CTCAGA
R741	GACGAC
R742	TAATCG




i7 Index Name	i7 Bases for Sample Sheet
R743	TACAGC
R744	TATAAT
R745	TCATTC
R746	TCCCGA
R747	TCGAAG
R748	TCGGCA

## Index 2 (i5) Adapters

i5 Index Name	i5 Bases for Sample Sheet NovaSeq 6000 with NVCS v1.6 and below, NovaSeq X Series, MiniSeq with Rapid reagents, MiSeq, HiSeq 2000/2500, NextSeq 1000/2000 (Sample Sheet v2)	i5 Bases for Sample Sheet iSeq, NovaSeq 6000 with NVCS v1.7 and above, MiniSeq, NextSeq 500/550, HiSeq 3000/4000/X, NextSeq 1000/2000 (Sample Sheet v1)
A501	TGAACCTT	AAGGTTCA
A502	TGCTAAGT	ACTTAGCA
A503	TGTTCTCT	AGAGAACA
A504	TAAGACAC	GTGTCTTA
A505	CTAATCGA	TCGATTAG
A506	CTAGAACA	TGTTCTAG
A507	TAAGTTCC	GGAACTTA
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

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCTTTAAG
AGTTGCTCTTTTGTGGTAAGTTGCAAATCGAAGTTTATAGATTGAGTTCTACGTCGAGCGGCCGCGAT
```

## CTE2 - 250bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGATCCTTATCTGTCAAACCGCTAATGTCCGTTCTAAGACCGT
CTGGAGAACTTGCCCATCAGTGCTTTTGAACCTTTTTTTCACAGTCCCTTCCGATTACACTGAGAAGCTGACCACAC
CTGCTAGAAGATGGAGGTATGCAGCCCGTTAGTAGGAGTAATACTACCCAGCTTATAACCCCTCAAACGTAGGGCAGATGG
CGGCCGCGAT
```

## CTE2 - 350bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGATCCTAGAGACCATTGCGGATTCCATGAGACTCCAAGGGTTC
TGCACAACCTTATGCACCTCTATTAGATCATTGTGTTCTACGAAGCCTGGACTGCATTACATATTCACAACCAACATGAGA
AGAGCGGAATAGATGGCCGGATGTTTGGTGGCTTTGATATATTGTGAGGAGCATTGCGAACCCCTAGAGCTGTCCGGTCAA
ATAACCCCTCACAATAAGTGTAATGTCATGGGATAATCAAAGACTAAGGGAGGGCTTTTATAGAAGGCGTGAGGTCAT
GCTATCCCCCTCTGAAGACGCGGCCGCGAT
```

## CTE2 - 450bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCA
CTTTGAGGCATGTAATATGGTACTGAGCTTCGGCACAGGGCTCAAATTGCATCATTAATGTCTCCGATGTGGCTATATG
TCATGGATAAAGGCAGCCCCCTATATCTTTTTTTGTGGCAGCATGGGTCCATCAAAGCAATTATTCAGGGTCTTAATGAC
CTCCACAGCTCTAAACGTAATTCATCTGGCTTTCCTGTACTTACTTCCTCCATGAAAAAAGTGTTGATAATGCTCATA
ATGCTGCCCAGCAATTTCTCCCTTCTCAAGACTATTCTGGCTTCTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTG
CTGACAAAATTGCACTCTAAACGCTAGCTTAGGTCTTCTGCGGCCGCGAT
```

## CTE2 - 550bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGATCCGTTAGCTATCGTTTCGCGAGAAAGTTAGTAGACACACAG
GACCCAGGCGTGCAAGTCAATTTACAGTGACTACACCGATTCTGGTTAAAAGAGCCTATGGCCACCCTTATTTTAGAGAA
AAAAAACACACCTCTAATGTGTTGGGCACTAGAAAAAGCTAACTACCTAGTCCGTTTCTGGACGACTTCATTGGGAATA
ACATACCCCCCACTGTGATTAAAGACTGGCACTGTCCATATGCTTTCTTCAATAGGTTTGGCTCATGTGTGATTCCCTCTG
```

GCAAACCTTATAGAGGACAAGCAGAATAAACCAATTCAAGGTCGTTGTAGCTGAAGGCCTGGCCTGCCTGACAGTTAATTA  
TGAGCATGTCTTGCCCTTCATGGTGGATATTCACAGCTGAAAGTGGTATTGGCATTTTTTTCTGAGGACACAACGAGGAA  
ATCTGATAAATACGGCCACCTGAAGTCTAGCTCGGAGTTAAACAATTTACCACGTTTAGAGCGGCCGCGAT

## CTE2 - 650bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCCGGGGGATCCGCTCGCACTTAGCCTGTAAAGGGGTTTCGCGCTCGTCTA  
GTCTGTGCTGTTGCCTGGATAGTAAATTATCATGGTACAACTTTTAAAGAGCCAGTTAAATGGAGATGGATTTAAAAAGA  
GTTATTGTAAAGTCTCCCCAGGTGTGTCATTAAATATCCCAACAGATTGCCCTGGCCTGACCCCTAAATGCAATTTTGG  
GATTCCCTTTTAGTTGCTTTCATTAAAAATGTACCAGCGCAGTAAAAAAGCACAAAGTATATTGTTTATGTAACCTACTA  
TCTCATTTGCACTGGTTACATGGCAGCTTCAGACTGACTAAACTACACTTTTCCCACCATGGTTCAAAGATCAACAGAA  
CTGGGCCAACAAAAGCAATTTTTTTCATGTGGTCTAACTACCAACTTATTATGAGTTAAGTTACTTTTAGGTTTAAATCA  
CAGCAGTTTTTCCCTCCACACCTCCAGAGATACTTTCAGGGTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTG  
TTTCTTTATGGTGCTTGTGTCCTGACAACCGCGTAAGGCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGTG  
CGGCCGCGAT

## CTE2 - 750bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCCGGGGGATCCTTGGACCGTTAATTCATATATCGAAGTAGCAGGTTGTT  
GCCCCGCTGATGTTGCCACTACTTGCTCATGACAGTTTTTTTTAGGCAATGCAAACTACTATTTGATATTTTTTTCCAAG  
TACAGTTGTAGGGTACTCCTTATACTGATTCTTCTGAGCCTGTACGGGGAGCATTAGGTACTGATGTAGTAGGAGTTGAG  
CTTCACAAATTCACCAGGTAAGCCCCAAATTTATTTCTGCTTGGACAGGTCCACCTCACATGGGTCTGTCTAATATATTA  
AAAGAGGGATTTTCTTTGCTGTATTGCAGCCCAGTATATCTGTTACTTACAGTAGTAGTCCATTATTGCTGGCCTAGGGG  
CTTTTGTCTTACACGAACACCCTCTGTAAAAATTTGAGGTCGTCTTAGAGTCAAACCATTCATGGAGCGCTCTGTGCA  
TCTACCAACTATCGCTAAGCATTCACTTGGTTGGTTTAAAGTGAGGCAACTCCATTATCTTCTAGCATAACCCTTCCCAGG  
CTACATGTAGAAAGAGATCTGTTGGGCCCCACTATTTTTTACCCAGGGAAGCCTACTTTAGTTATAGCTTGCCAGAGAT  
TTTCTGTGTATGTAGAAGTCATCCACTTTTAAACACCAGGAGGTGGATGTGGGGCCAGGAAATATGTCAATAACGATACG  
GGACTTCTAACAGTGACTCGCGGCCGCGAT

## CTE2 - 850bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCCGGGGGATCCTTAAGTCGTGTCCTTCTCCTACGATCTTGTGAACGATG  
GATATTTTCTTTCTAAACTTTAAACAAAACAGTGGAGAGATGTTGTTGTGTGTGGAACGACGCTTAGCCTACCGAGGAAGA  
TCCAGACTACAATAGAAATATGTGGCCAAAACCTCTCCGCAACTTCAGCAGCAAAAAGGATATTATTGACATAACCTCCTCA  
CAAAAAGTACACAAATGGCTAAATAACAGAGCCCCCTTTTTTACTAGGGAAATGGTGGATGTGGACTTTAGAATTTAAGA  
TAATAAAGCTCTTGATCCCAATGTTATTTCCATGTGAGGGACATTAAATTGAGTAACCTTTGCCACATAACCCTCTCCCAG  
AGTCCATTCTCTAAAACTTGAAGCTCCGCCCCCTTTTTACGCACATTAGGCTTCCAATTACGGTCAATGGTCTTGAAGATT  
GGGAGCTTTTGAAGAGTAATAAGAACCATCACAAAAGGAACCCAGAAGCCGGGAGTGTCTACCAAAAAAATTCAAGGGT  
TAAAAAAAGTGACATTTTCTCTGTTTTTTACACATGATTTTGAATGCTGATGGGTCCACGTCCAGCTCTAAAGGTAGG  
TTCATGGTTCTCCAAAGTTGCTTCTTGTGTCAGAATTGAGCCACATCAGGTAGGTGGGGAAGTAGATCAGTGAGGATGCTT  
CACATGTGTGGGCACTGGGAACAGAATGCTTCAATAACACGAGCTGACGAGGGCCGCTATGAAAAAAAGATTCTCTGT  
GCCCCCTGGCGCCTCCGCACTTAAAGAATTGATGACCGTGCGGCCGCGAT

## CTE1 - 123bp

GATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCCTTTAAGAGTTGCTCTTTTTGTTTGGTAAGTTGCAAATCGAAGT  
TTTAGATTGAGTTCTACGTCGAGCGGCCGCGATATCCTGCAGATGCA

## CTE1 - 223bp

GATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGTGCTTTTGAACCTTT  
TTTTACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGCTAGAAGATGGAGGTATGCAGCCCCTTAGTAGGA  
GTAATACTACCCAGCTTATAACCCCTCAAACGTAGGGCAGATGGCGGCCGCGATATCCTGCAGATGCA

## CTE1 - 323bp

GATCCTAGAGACCATTTCGCGATTCCATGAGACTCCAAGGGTTCTGCACAACCTTATGCACCTCTATTAGATCATTGTGTTC  
TACGAAGCCTGGACTGCATTACATATTCACAACCAACATGAGAAGAGCGGAATAGATGGCCGGATGTTTGGTGGCTTTGA  
TATATTGTGAGGAGCATTGCGAACCTTAGAGCTGTCCGGTCAAATAACCCCTCACAATAAGTGTAAATGTCATGGGATAA  
TCAAAGACTAAGGGAGGGCTTTTATAGAAGGCGTGAGTTCATGCTATCCCCCTCTGAAGACGCGGCCGCGATATCCTGC  
AGATGCA

## CTE1 - 423bp

GATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCACCTTTGAGGCATGTAATATGGTACTGAGCTTCGGCACA  
GGGCTCAAATTGCATCATTAATGTCTCCGATGTGGCTATATGTCATGGATAAAGGCAGCCCCCTATATCTTTTTTTGTG  
GCAGCATGGGTCCATCAAAGCAATTATTCAGGGTCTTAATGACCTCCACAGCTCTAAACGTAATTCATCTGGCTTTGCCT  
GTACTTACTTCCCTCCATGAAAAAAGTGTGATAATGCTCATAATGCTGCCAGCAATTTCTCCCTTCTCAAGACTATT  
CTGGCTTCTTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTGCTGACAAAATTGCACTCTAAACGCTAGCTTAGGTCTT  
CTGCGGCCGCGATATCCTGCAGATGCA

## CTE1 - 523bp

GATCCGTTAGCTATCGTTTCGCGAGAAAGTTAGTAGACACACAGGACCCAGGCGTGCAAGTCAATTTAGCTGACTACACC  
GATTCTGGTTAAAAGAGCCTATGGCCACCCTTATTTTAGAGAAAAAAACCACACCTCTAATGTGTTGGGCACTAGAAAA  
AGCTAACTACCTAGTCCGTTTCTGGACGACTTCATTGGGAATAACATACCCCCCACTGTGATTAAGACTGGCACTGTCTT  
AATGCTTTCTTCAATAGGTTTGGCTCATGTGTGATTCCCTCTGGCAAACCTTATAGAGGACAAGCAGAATAAACCAATTCA  
AGGTGCTTGTAGCTGAAGGCCTGGCCTGCCTGACAGTTAATTATGAGCATGTCTTGCCCTTCATGGTGGATATTCACAGC  
TGAAAGTGGTATTGGCATTTTTTTCTGAGGACACAACGAGGAAATCTGATAAATACGGCCACCTGAAGTCTAGCTCGGAG  
TTAACAATTTACCACGTTTATAGAGCGGCCGCGATATCCTGCAGATGCA

## CTE1 - 623bp

GATCCGCTCGCACTTAGCCTGTTAAGGGGTTTCGCGCTCGTCTAGTCTGTGCTGTTGCCTGGATAGTAAATTATCATGGTA  
CAAACCTTTTAAAGAGCCAGTTAAATGGAGATGGATTAAAAAGAGTTATTGTAAAGTCTCCCCAGGTGTGTCATTAAATAT  
CCCAACAGATTGCCCTGGCCTGACCCCTAAATGCAATTTTGGGATTCCCTTTTAGTTGCTTTTCATTAAATGTACCAGC

GCAGTAAAAAAGCACAAAGTATATTGTTTATGTAACCTACTATCTCATTTGCACTGGTTACATGGCAGCTTCAGACTGA  
CTAAACTACACTTTTCCCACCATGGTTCAAAGATCAACAGAACTGGGCCAACAAAAGCAATTTTTTTCATGTGGTCTAAC  
TACCAACTTATTATGAGTTAAGTTACTTTTAGGTTTAAAATCACAGCAGTTTTTCCCTCCACACCTCCCAGAGATACTTT  
CAGGGTGGCTAAACTTGGCTAAAGGCTTCGGACCAACCCTTGTTTCTTTATGGTGCTTGTGTCCTGACAACCGCGTAAG  
GCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGTGCGGCCGCGATATCCTGCAGATGCA

### CTE1 - 723bp

GATCCTTGACCGTTAATTCATATATCGAAGTAGCAGGTTGTTGCCCGCCTGATGTTGCCACTACTTGCTCATGACAGT  
TTTTTTAGGCAATGCAAACTACTATTTGATATTTTTTCCAAGTACAGTTGTAGGGTACTCCTTATACTGATTCTTCTGA  
GCCTGTACGGGGAGCATTAGGTACTGATGTAGTAGGAGTTGAGCTTCACAAATTCACCAGGTAAGCCCAAATTTATTTTC  
TGCTTGACAGGTCCACCTCACATGGGTCTGTCTAATATATTAAAGAGGGATTTTCTTTGCTGTATTGCAGCCCAGTAT  
ATCTGTTACTTACAGTAGTAGTCCATTATTGCTGGCCTAGGGGCTTTTGCTCCTACACGAACACCCTCTGTAAAATTTG  
AGGTGCTCCTTAGAGTCAAACCATTCATGGAGCGCTCTGTGCATCTACCAACTATCGCTAAGCATTCACTTGGTTGGTTT  
AAGTGGAGGCAACTCCATTATCTTCTAGCATACCTTCCCAGGCTACATGTAGAAAGAGATCTGTTGGGCCCACTATTT  
TTTCAACCAGGGAAGCCTACTTTAGTTATAGCTTGCCAGAGATTTTCTGTGTCTAGTAGAAGTCATCCACTTTTAACACC  
AGGAGGTGGATGTGGGGCCAGGAAATATGTCAATAACGATACGGGACTTCTAACAGTGAATCGCGGCCGCGATATCCTGC  
AGATGCA

### CTE1 - 823bp

GATCCTTAAGTCGTGTCCTTCTCCTACGATCTTGTGAACGATGGATATTTTCTTTCTAACTTTAAACAAACAGTGGAGA  
GATGTTGTTGTGTGTGGAACGACGCTTAGCCTACCGAGGAAGATCCAGACTACAATAGAATATGTGGCCAAAACCTCTCCG  
CAACTTCAGCAGCAAAAAAGGATATTATTGACATAACCTCCTCACAAAAGTACACAAATGGCTAAATAACAGAGCCCCCTC  
TTTTTACTAGGGAAATGGTGGATGTGGACTTTAGAATTTAAGATAATAAAGCTCTTGATCCCAATGTTATTTCCATGTGA  
GGGACATTAAATTGAGTAACCTTTGCCACATAACCTCTCCAGAGTCCATTCTCTAAACTTTGAAGCTCCGCCCTTTTT  
ACGCACATTAGGCTTCCAATTACGGTCAATGGTCTTGAAGATTGGGAGCTTTTGAAGAGTAATAAGAACCATCACAAAA  
GGAACCCAGAAGCCGGGAGTGTCTACCAAAAAAATTCAGGGTTAAAAAAAAGTGACATTTTCTCCTGTTTTTTACACAT  
GATTTTGAATGCTGATGGGTCCACGTCCAGCTCTAAAGGTAGGTTTCATGGTCTCCAAAGTTGCTTTCTTGTGAGAATTG  
AGCCACATCAGGTAGGTGGGGAAAGTAGATCAGTGAGGATGCTTCACATGTGTGGGCACTGGGAACAGAATGCTTCAATAA  
CACGAGCTGACGAGGGCCCGCTATGAAAAAAAAGATTCTCTGTGCCCCCTGGCGCCTCCGCACTTAAAGAATTGATGACC  
GTGCGGCCGCGATATCCTGCAGATGCA

### CTA - 150bp

GGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCTTTAAGAGTTGCTCTTTTTGTTTGGTAAGTTGCAAATCG  
AAGTTTTAGATTGAGTTCTACGTCGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

### CTA - 250bp

GGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGTGCTTTTGAAC  
CTTTTTTTCACAGGTCCCTTCGATTACACTGAGAAGCTGACCACACCTGCTAGAAGATGGAGGTATGCAGCCCCTTAGT

AGGAGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCGGCCGCGATATCCTGCAGATGCATCCAGTACT  
AGTATGGCCC

### CTA - 350bp

GGGGGATCCTAGAGACCATTTCGCGATTCCATGAGACTCCAAGGGTTCTGCACAACCTTATGCACCTCTATTAGATCATTGT  
GTTCTACGAAGCCTGGACTGCATTACATATTCACAACCAACATGAGAAGAGCGGAATAGATGGCCGGATGTTTGGTGGCT  
TTGATATATTGTGAGGAGCATTGCGAACCCTAGAGCTGTCCGGTCAAATAACCCCTCACAATAAGTGTAAATGTCATGGG  
ATAATCAAAAGACTAAGGGAGGGCTTTTATAGAAGGCGTGAGGTCATGCTATCCCCCTCTGAAGACGCGGCCGCGATATC  
CTGCAGATGCATCCAGTACTAGTATGGCCC

### CTA - 450bp

GGGGGATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCACTTTGAGGCATGTAATATGGTACTGAGCTTCGG  
CACAGGGCTCAAATTCATCATTAATGTCTCCGATGTGGCTATATGTCATGGATAAAGGCAGCCCCCTATATCTTTTTT  
TGTGGCAGCATGGGTCCATCAAAGCAATTATTCAGGGTCTTAATGACCTCCACAGCTCTAAACGTAATTCATCTGGCTTT  
GCCTGTACTTACTTCCTCCATGAAAAAAGTGTGATAATGCTCATAATGCTGCCAGCAATTTCTCCCTTCTCAAGAC  
TATTCTGGCTTCCTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTGCTGACAAAATTGCACTCTAAACGCTAGCTTAGG  
TCTTCTGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

### CTA - 550bp

GGGGGATCCGTAGCTATCGTTTCGCGAGAAAAGTTAGTAGACACACAGGACCCAGGCGTGCAAGTCAATTTTCAGCTGACTA  
CACCGATTCTGGTTAAAAGAGCCTATGGCCACCCTTATTTTAGAGAAAAAAACCACACCTCTAATGTGTTGGGCACTAG  
AAAAAGCTAACTACCTAGTCCGTTTCTGGACGACTTCATTGGGAATAACATACCCCCACTGTGATTAAGACTGGCACTG  
TCCTAATGCTTTCTTCAATAGGTTTGGCTCATGTGTGATTCCCTCTGGCAAACCTTATAGAGGACAAGCAGAATAAACCAA  
TTCAAGGTGCTTGTAGCTGAAGGCCTGGCCTGCCTGACAGTTAATTATGAGCATGTCTTGCCCTTCATGGTGGATATTCA  
CAGCTGAAAGTGGTATTGGCATTTTTTTCTGAGGACACAACGAGGAAATCTGATAAATACGGCCACCTGAAGTCTAGCTC  
GGAGTTAACAATTTACCACGTTTAGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

### CTA - 650bp

GGGGGATCCGCTCGCACTTAGCCTGTTAAGGGGTTTCGCGCTCGTCTAGTCTGTGCTGTTGCCTGGATAGTAAATTATCAT  
GGTACAAACTTTTAAGAGCCAGTTAAATGGAGATGGATTTAAAAAGAGTTATTGTAAAGTCTCCCCAGGTGTGTCATTAA  
ATATCCCAACAGATTGCCCTGGCCTGACCCCTAAATGCAATTTTGGGATTCCCTTTTAGTTGCTTTTATTAAATGTAC  
CAGCGCAGTAAAAAAGCACAAAGTATATTGTTTATGTAATCACTATCTCATTTGCACTGGTTACATGGCAGCTTCAGA  
CTGACTAAAACCTACACTTTTCCCACCATGGTTCAAAGATCAACAGAACTGGGCCAACAAAAGCAATTTTTTTCATGTGGTC  
TAACTACCAACTTATTATGAGTTAAGTTACTTTTAGGTTTAAATCACAGCAGTTTTTCCCTCCACACCTCCAGAGATA  
CTTTCAGGGTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTGTTTCTTTATGGTGCTTGTGTCCTGACAACCGCG  
TAAGGCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGTGCGGCCGCGATATCCTGCAGATGCATCCAGTACT  
AGTATGGCCC

## CTA - 750bp

GGGGGATCCTTGGACCGTTAATTCATATATCGAAGTAGCAGGTTGTTGCCCCGCCTGATGTTGCCACTACTTGCTCATGA  
CAGTTTTTTTTAGGCAATGCAAACACTACTATTTGATATTTTTTTTCCAAGTACAGTTGTAGGGTACTCCTTATACTGATTCTT  
CTGAGCCTGTACGGGGAGCATTAGGTACTGATGTAGTAGGAGTTGAGCTTCACAAATTCACCAGGTAAGCCCCAAATTTAT  
TTTCTGCTTGGACAGGTCCACCTCAGATGGGTCTGTCTAATATATTTAAAGAGGGATTTTCTTTGCTGTATTGCAGCCCA  
GTATATCTGTTACTTACAGTAGTAGTCCATTATTGCTGGCCTAGGGGCTTTTGCTCCTACACGAACACCCTCTGTAAAA  
TTTGAGGTGCTCCTTAGAGTCAAACCATTCATGGAGCGCTCTGTGCATCTACCAACTATCGCTAAGCATTCACTTGGTTG  
GTTTAAGTGGAGGCAACTCCATTATCTTCTAGCATACCCCTCCAGGCTACATGTAGAAAGAGATCTGTTGGGCCCCACT  
ATTTTTTTCACCCAGGGAAGCCTACTTTAGTTATAGCTTGCCAGAGATTTTCTGTGTCTATGTAGAAGTCATCCACTTTTAA  
CACCAGGAGGTGGATGTGGGGCCAGGAAATATGTCAATAACGATACGGGACTTCTAACAGTGAAGTCTGCGGCCGCGATATC  
CTGCAGATGCATCCAGTACTAGTATGGCCC

## CTA - 850bp

GGGGGATCCTTAAGTCGTGTCCTTCTCCTACGATCTTGTGAACGATGGATATTTTCTTTCTAACTTTAAACAAACAGTG  
GAGAGATGTTGTTGTGTGTGGAACGACGCTTAGCCTACCGAGGAAGATCCAGACTACAATAGAATATGTGGCCAAAACCTC  
TCCGCAACTTCAGCAGCAAAAAGGATATTATTGACATAACCTCCTCACAAAAGTACACAAATGGCTAAATAACAGAGCC  
CCTCTTTTTTACTAGGGAAATGGTGGATGTGGACTTTAGAATTTAAGATAATAAAGCTCTTGATCCCAATGTTATTTCCAT  
GTGAGGGACATTAAATTGAGTAACCTTTGCCACATACCCTCTCCAGAGTCCATTCTCTAAACTTGAAGCTCCGCCCCCT  
TTTTACGCACATTAGGCTTCCAATTACGGTCAATGGTCTTGAAGATTGGGAGCTTTTGAAGAGTAATAAGAACCATCACA  
AAAAGGAACCCAGAAGCCGGGAGTGTCTACCAAAAAAATTCAAGGGTTAAAAAAAAGTGACATTTTCTCCTGTTTTTTTAC  
ACATGATTTTGAATGCTGATGGGTCCACGTCCAGCTCTAAAGGTAGGTTTCATGGTTCTCCAAAGTTGCTTTCTTGTCAGA  
ATTGAGCCACATCAGGTAGGTGGGGAAGTAGATCAGTGAGGATGCTTCACATGTGTGGGCACTGGGAACAGAATGCTTCA  
ATAACACGAGCTGACGAGGGCCCCGCTATGAAAAAAAAGATTCTCTGTGCCCCCTGGCGCCTCCGCACCTAAAGAATTGAT  
GACCGTGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

## CTL - 150bp

AGTATGGCCCGGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCTTTAAGAGTTGCTCTTTTTGTTTGGTAAG  
TTGCAAATCGAAGTTTTAGATTGAGTTCTACGTCGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACA

## CTL - 250bp

AGTATGGCCCGGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGT  
GCTTTTGAACCTTTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGCTAGAAGATGGAGGTATGCA  
GCCCGTTAGTAGGAGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCGGCCGCGATATCCTGCAGATGC  
ATCCAGTACA

## CTL - 350bp

AGTATGGCCCGGGGGATCCTAGAGACCATTCGCGATTCCATGAGACTCCAAGGGTTCTGCACAACCTTATGCACCTCTATT  
AGATCATTGTGTTCTACGAAGCCTGGACTGCATTACATATTCACAACCAACATGAGAAGAGCGGAATAGATGGCCGGATG

TTTGGTGGCTTTGATATATTGTGAGGAGCATTGCGAACCCTAGAGCTGTCCGGTCAAATAACCCCTCACAATAAGTGTA  
ATGTCATGGGATAATCAAAAGACTAAGGGAGGGCTTTTATAGAAGGCGTGAGGTCATGCTATCCCCCTCTGAAGACGCGG  
CCGCGATATCCTGCAGATGCATCCAGTACA

### CTL - 450bp

AGTATGGCCCGGGGATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCACTTTGAGGCATGTAATATGGTAC  
TGAGCTTCGGCACAGGGCTCAAATTGCATCATTAATGTCTCCGATGTGGCTATATGTCATGGATAAAGGCAGCCCCCTA  
TATCTTTTTTTTGTGGCAGCATGGGTCCATCAAAGCAATTATTCAGGGTCTTAATGACCTCCACAGCTCTAAACGTAATTC  
ATCTGGCTTTGCCTGTACTTACTTCCTCCATGAAAAAAGTGTGATAATGCTCATAATGCTGCCCAGCAATTTCTCTCC  
TTCTCAAGACTATTCTGGCTTCCTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTGCTGACAAAATTGCACTCTAAACG  
CTAGCTTAGGTCTTCTGCGGCCGCGATATCCTGCAGATGCATCCAGTACA

### CTL - 550bp

AGTATGGCCCGGGGATCCGTTAGCTATCGTTTCGCGAGAAAGTTAGTAGACACACAGGACCCAGGCGTGCAAGTCAATTT  
CAGCTGACTACACCGATTCTGGTTAAAAGAGCCTATGGCCACCCTTATTTTAGAGAAAAAAACCACACCTCTAATGTGT  
TGGGCACTAGAAAAAGCTAACTACCTAGTCCGTTTCTGGACGACTTCATTGGGAATAACATACCCCCCACTGTGATTAAG  
ACTGGCACTGTCTAATGCTTTCTTCAATAGGTTTGGCTCATGTGTGATTCCTCTGGCAAATTTATAGAGGACAAGCAG  
AATAAACCAATTCAAGGTCGTTGTAGCTGAAGGCCGTCCTGACAGTTAATTATGAGCATGTCTTGCCCTTCATGG  
TGGATATTCACAGCTGAAAGTGGTATTGGCATTTTTTTCTGAGGACACAACGAGGAAATCTGATAAATACGGCCACCTGA  
AGTCTAGCTCGGAGTTAACAATTTACCACGTTTAGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACA

### CTL - 650bp

AGTATGGCCCGGGGATCCGCTCGCACTTAGCCTGTTAAGGGGTTTCGCGCTCGTCTAGTCTGTGCTGTTGCCTGGATAGT  
AAATTATCATGGTACAACTTTTAAAGAGCCAGTTAAATGGAGATGGATTTAAAAGAGTTATTGTAAAGTCTCCCCAGGT  
GTGTCATTAAATATCCCAACAGATTGCCCTGGCCTGACCCCTAAATGCAATTTTGGGATTCCCTTTTAGTTGCTTTTCAT  
TAAATGTACCAGCGCAGTAAAAAAGCACAAAGTATATTGTTTATGTAACCTCACTATCTCATTTGCACTGGTTACATGG  
CAGCTTCAGACTGACTAAAACCTACACTTTTCCCACCATGGTTCAAAGATCAACAGAACTGGGCCAACAAAAGCAATTTTT  
TCATGTGGTCTAACTACCAACTTATTATGAGTTAAGTTACTTTTAGGTTTAAATCACAGCAGTTTTTCCCTCCACACCT  
CCCAGAGATACTTTCAGGGTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTGTTTCTTTATGGTGCTTGTGTCCT  
GACAACCGCGTAAGGCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGTGCGGCCGCGATATCCTGCAGATGC  
ATCCAGTACA

### CTL - 750bp

AGTATGGCCCGGGGATCCTTGACCGTTAATTCATATATCGAAGTAGCAGGTTGTTGCCCCGCCTGATGTTGCCACTAC  
TTGCTCATGACAGTTTTTTTAGGCAATGCAAACCTACTATTTGATATTTTTTTTCCAAGTACAGTTGTAGGGTACTCCTTAT  
ACTGATTCTTCTGAGCCTGTACGGGGAGCATTAGGTACTGATGTAGTAGGAGTTGAGCTTCACAAATTCACCAGGTAAGC  
CCAAATTTATTTTTCTGCTTGGACAGGTCCACCTCACATGGGTCTGTCTAATATATTTAAAGAGGGATTTTCTTTGCTGTA  
TTGAGCCCAGTATATCTGTTACTTACAGTAGTAGTCCATTATTGCTGGCCTAGGGGCTTTTGCTCCTACACGAACACCA



CTCTGTAAAATTTGAGGTCGTCCCTTAGAGTCAAACCATTTCATGGAGCGCTCTGTGCATCTACCAACTATCGCTAAGCATT  
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' CCGGTTCTTCCCTGCCGAACCCATCTTCGTCGGCAGCGTCAGATGTGTATAAGAGACAGTACGCTTGCAT

### 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

Index Name	Six-Base Sequence for Sample Sheet
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' CAAGCAGAAGACGGCATACGAGATTCAAGTGTGACTGGAGTTC

### PCR Primer, Index 9

5' CAAGCAGAAGACGGCATACGAGATCTGATCGTGACTGGAGTTC

### PCR Primer, Index 10

5' CAAGCAGAAGACGGCATACGAGATAAGCTAGTGACTGGAGTTC

### PCR Primer, Index 11

5' CAAGCAGAAGACGGCATACGAGATGTAGCCGTGACTGGAGTTC

### PCR Primer, Index 12

5' CAAGCAGAAGACGGCATACGAGATTACAAGGTGACTGGAGTTC

## Oligonucleotide Sequences for the Small RNA v1 and v1.5 Kits

(Obsolete)

### RT Primer

5' CAAGCAGAAGACGGCATACGA

### 5' RNA Adapter

5' GUUCAGAGUUCUACAGUCCGACGAUC

### 3' RNA Adapter

5' P-UCGUAUGCCGUCUUCUGCUUGUdT

### Small RNA v1.5 3' Adapter

5' /5rApp/ATCTCGTATGCCGTCTTCTGCTTG/3ddC/

### Small RNA PCR Primer 1

5' CAAGCAGAAGACGGCATACGA

### Small RNA PCR Primer 2

5' AATGATACGGCGACCACCGACAGGTTTCAGAGTTCTACAGTCCGA

### Small RNA Sequencing Primer

5' CGACAGGTTTCAGAGTTCTACAGTCCGACGATC



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