

Illumina Adapter Sequences

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Introduction

This document lists the index adapter sequences for Illumina library prep kits. The sequences are grouped into sections for AmpliSeq for Illumina, TruSight kits, Nextera kits, and TruSeq kits. An appendix lists TruSeq controls and information for legacy Illumina kits.

The dual-indexing workflow on the following systems requires the reverse complement of the Index 2 (i5) adapter sequence: iSeq 100, MiniSeq, NextSeq 550, NextSeq 500, HiSeq 4000, and HiSeq 3000.

- If you are manually creating a sample sheet for these systems, include the reverse complement of the sequence.
- If you are using 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.

AmpliSeq for Illumina Panels

AmpliSeq Comprehensive Cancer Panel for Illumina, AmpliSeq Cancer HotSpot Panel v2 for Illumina, AmpliSeq Focus Panel for Illumina, AmpliSeq Comprehensive Panel v3 for Illumina, AmpliSeq BRCA Panel for Illumina, AmpliSeq Immune Response Panel for Illumina, AmpliSeq Transcriptome Human Gene Expression Panel for Illumina, AmpliSeq Exome Panel for Illumina, AmpliSeq Custom DNA Panel for Illumina.

These combinatorial dual index adapters have been arranged in the plate to enforce the recommended pairing strategy.

Index 1 (i7) Adapters

CAAGCAGAAGACGGCATAACGAGAT [i7] GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG

Index 2 (i5) Adapters

AATGATACGGCGACCACCGAGATCTACAC [i5] TCGTCGGCAGCGTCAGATGTGTATAAGAGACAG

Adapter Trimming

The following sequence is needed for adapter trimming.

CTGTCTCTTATAACATCT

Index 1 (i7) Adapters

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| Q7005 | GTGAATAT |
| Q7006 | ACAGGCGC |
| Q7007 | CATAGAGT |
| Q7008 | TGCGAGAC |
| Q7015 | TCTCTACT |
| Q7016 | CTCTCGTC |
| Q7017 | CCAAGTCT |

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| Q7018 | TTGGACTC |
| Q7023 | GCAGAATT |
| Q7024 | ATGAGGCC |
| Q7025 | ACTAAGAT |
| Q7026 | GTCGGAGC |

Index 2 (i5) Adapter

| i5 Index Name | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, HiSeq 3000/4000, MiniSeq, NextSeq |
|---------------|--|---|
| Q5001 | AGCGCTAG | CTAGCGCT |
| Q5002 | GATATCGA | TCGATATC |
| Q5007 | ACATAGCG | CGCTATGT |
| Q5008 | GTGCGATA | TATCGCAC |
| Q5009 | CCAACAGA | TCTGTTGG |
| Q5010 | TTGGTGAG | CTCACCAA |
| Q5013 | AACCGCGG | CCGCGGTT |
| Q5014 | GGTTATAA | TTATAACC |

TruSight Amplicon Panels

Includes 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 |

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

Index 2 (i5) Adapter

| i5 Index Name | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|----------------------|--|--|
| A501 | TGAACCTT | AAGGTTCA |
| A502 | TGCTAAGT | ACTTAGCA |
| A503 | TGTTCTCT | AGAGAACA |
| A504 | TAAGACAC | GTGTCTTA |
| A505 | CTAATCGA | TCGATTAG |
| A506 | CTAGAACA | TGTTCTAG |
| A507 | TAAGTTCC | GGAACCTA |
| A508 | TAGACCTA | TAGGTCTA |

TruSight Cardio

Index 1 (i7) Adapters

| i7 Index Name | i7 Bases for Sample Sheet |
|----------------------|----------------------------------|
| N701 | TAAGGCGA |
| N702 | CGTACTAG |
| N703 | AGGCAGAA |
| N704 | TCCTGAGC |

| i7 Index Name | i7 Bases for Sample Sheet |
|----------------------|----------------------------------|
| N705 | GGACTCCT |
| N706 | TAGGCATG |
| N707 | CTCTCTAC |
| N708 | CAGAGAGG |
| N709 | GCTACGCT |
| N710 | CGAGGCTG |
| N711 | AAGAGGCA |
| N712 | GTAGAGGA |

Index 2 (i5) Adapter

| i5 Index Name | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, NextSeq, HiSeq 3000/4000 |
|----------------------|--|---|
| E502 | CTCTCTAT | ATAGAGAG |
| E503 | TATCCTCT | AGAGGATA |
| E504 | AGAGTAGA | TCTACTCT |
| E505 | GTAAGGAG | CTCCTTAC |

TruSight One

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 |
| N708 | CAGAGAGG |

| i7 Index Name | i7 Bases for Sample Sheet |
|----------------------|----------------------------------|
| N709 | GCTACGCT |
| N710 | CGAGGCTG |
| N711 | AAGAGGCA |
| N712 | GTAGAGGA |

Index 2 (i5) Adapter

| i5 Index Name | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|----------------------|--|--|
| E502 | CTCTCTAT | ATAGAGAG |
| E503 | TATCCTCT | AGAGGATA |
| E504 | AGAGTAGA | TCTACTCT |
| E505 | GTAAGGAG | CTCCTTAC |

TruSight Rapid Capture

Includes TruSight Cancer and TruSight Inherited Disease.

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 |
| N708 | CAGAGAGG |
| N709 | GCTACGCT |
| N710 | CGAGGCTG |

| i7 Index Name | i7 Bases for Sample Sheet |
|----------------------|----------------------------------|
| N711 | AAGAGGCA |
| N712 | GTAGAGGA |

Index 2 (i5) Adapter

| i5 Index Name | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|----------------------|--|--|
| E501 | TAGATCGC | GCGATCTA |
| E502 | CTCTCTAT | ATAGAGAG |
| E503 | TATCCTCT | AGAGGATA |
| E504 | AGAGTAGA | TCTACTCT |
| E505 | GTAAGGAG | CTCCTTAC |
| E506 | ACTGCATA | TATGCAGT |
| E507 | AAGGAGTA | TACTCCTT |
| E508 | CTAAGCCT | AGGCTTAG |

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 |

| i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|
| R709 | GATCAG |
| R711 | GGCTAC |
| R712 | CTTGTA |

Index 2 (i5) Adapter

| i5 Index Name | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|---------------|--|---|
| A501 | TGAACCTT | AAGGTTCA |
| A502 | TGCTAAGT | ACTTAGCA |

TruSight Tumor 170

Index 1 (i7) Adapters (RNA)

| i7 Index Name | i7 Bases for Sample Sheet | Index Primer |
|---------------|---------------------------|--------------|
| D702 | TCCGGAGA | UP01 |
| D707 | CTGAAGCT | UP02 |
| D717 | CGTAGCTC | UP03 |
| D706 | GAATTCGT | UP04 |
| D712 | AGCGATAG | UP05 |
| D724 | GCGATTAA | UP06 |
| D705 | ATTCAGAA | UP07 |
| D715 | TTAATCAG | UP09 |
| D713 | GAATAATC | UP08 |
| D703 | CGCTCATT | UP10 |
| D710 | TCCGCGAA | UP11 |
| D701 | ATTACTCG | UP12 |
| D716 | ACTGCTTA | UP13 |
| D714 | ATGCGGCT | UP14 |

| i7 Index Name | i7 Bases for Sample Sheet | Index Primer |
|---------------|---------------------------|--------------|
| D718 | GCCTCTCT | UP15 |
| D719 | GCCGTAGG | UP16 |

Index 2 (i5) Adapter (RNA)

| i5 Index Name | i5 Bases for Sample Sheet | Index Primer |
|---------------|---------------------------|--------------|
| D503 | AGGATAGG | UP01 |
| D504 | TCAGAGCC | UP02 |
| D509 | CATCCGAA | UP03 |
| D510 | TTATGAGT | UP04 |
| D513 | ACGAATAA | UP05 |
| D515 | GATCTGCT | UP06 |
| D501 | AGGCTATA | UP07 |
| D502 | GCCTCTAT | UP08 |
| D505 | CTTCGCCT | UP09 |
| D506 | TAAGATTA | UP10 |
| D517 | AGTAAGTA | UP11 |
| D518 | GACTTCCT | UP12 |
| D511 | AGAGGCGC | UP13 |
| D512 | TAGCCGCG | UP14 |
| D514 | TTCGTAGG | UP15 |
| D516 | CGCTCCGC | UP16 |

Index 1 (i7) Adapters (DNA)

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

Index 2 (i5) Adapter (DNA)

| i5 Index Name | i5 Bases for Sample Sheet | Index Primer |
|---------------|---------------------------|--------------|
| D507 | ACGTCCTG | CP01 |
| D508 | GTCAGTAC | CP02 |
| D519 | CCGTCGCC | CP03 |
| D520 | GTCCGAGG | CP04 |
| D507 | ACGTCCTG | CP05 |
| D507 | ACGTCCTG | CP06 |
| D507 | ACGTCCTG | CP07 |

| i5 Index Name | i5 Bases for Sample Sheet | Index Primer |
|---------------|---------------------------|--------------|
| D508 | GTCAGTAC | CP08 |
| D508 | GTCAGTAC | CP09 |
| D508 | GTCAGTAC | CP10 |
| D519 | CCGTCGCC | CP11 |
| D519 | CCGTCGCC | CP12 |
| D519 | CCGTCGCC | CP13 |
| D520 | GTCCGAGG | CP14 |
| D520 | GTCCGAGG | CP15 |
| D520 | GTCCGAGG | CP16 |

TruSight RNA Pan-Cancer Panel

Universal Adapter

5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

Adapter, Index 1–12

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [6 bases]ATCTCGTATGCCGTCTTCTGCTTG

Adapter, Index 13

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [6 bases]CAATCTCGTATGCCGTCTTCTGCTTG

Adapter, Index 14

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [6 bases]GTATCTCGTATGCCGTCTTCTGCTTG

Adapter, Index 15 and Index 21

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [6 bases]GAATCTCGTATGCCGTCTTCTGCTTG

Adapter, Index 16 and Index 19

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [6 bases]CGATCTCGTATGCCGTCTTCTGCTTG

Adapter, Index 18

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [6 bases]ACATCTCGTATGCCGTCTTCTGCTTG

Adapter, Index 20 and Index 27

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [6 bases]TTATCTCGTATGCCGTCTTCTGCTTG

Adapter, Index 22

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [6 bases]TAATCTCGTATGCCGTCTTCTGCTTG

Adapter, Index 23 and Index 25

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [6 bases] ATATCTCGTATGCCGTCTTCTGCTTG

Index Adapters

In this set of adapters, index numbering does not include numbers 17, 24, or 26.

| LT Set A/B | Index Name | 6-Base Sequence for Sample Sheet |
|------------|------------|----------------------------------|
| B | AR001 | ATCACG |
| A | AR002 | CGATGT |
| B | AR003 | TTAGGC |
| A | AR004 | TGACCA |
| A | AR005 | ACAGTG |
| A | AR006 | GCCAAT |
| A | AR007 | CAGATC |
| B | AR008 | ACTTGA |
| B | AR009 | GATCAG |
| B | AR010 | TAGCTT |
| B | AR011 | GGCTAC |
| A | AR012 | CTTGTA |
| A | AR013 | AGTCAA |
| A | AR014 | AGTTCC |
| A | AR015 | ATGTCA |
| A | AR016 | CCGTCC |
| A | AR018 | GTCCGC |
| A | AR019 | GTGAAA |
| B | AR020 | GTGGCC |
| B | AR021 | GTTTCG |
| B | AR022 | CGTACG |
| B | AR023 | GAGTGG |
| B | AR025 | ACTGAT |

| LT Set A/B | Index Name | 6-Base Sequence for Sample Sheet |
|------------|------------|----------------------------------|
| B | AR027 | ATTCCCT |

Illumina Nextera Adapters

Nextera Transposase Adapters

(Used for Nextera tagmentation)

Read 1

5' TCGTCGGCAGCGTCAGATGTGTATAAGAGACAG

Read 2

5' GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG

Nextera Index Kit – PCR Primers

Index 1 Read

5' CAAGCAGAAGACGGCATACGAGAT [i7]GTCTCGTGGGCTCGG

Index 2 Read

5' AATGATACGGCGACCACCGAGATCTACAC [i5]TCGTCGGCAGCGTC

Nextera Index Kit - Index 1 (i7) Adapters

| Bases in Adapter | i7 Index Name | i7 Bases for Sample Sheet |
|------------------|---------------|---------------------------|
| TCGCCTTA | N701 | TAAGGCGA |
| CTAGTACG | N702 | CGTACTAG |
| TTCTGCCT | N703 | AGGCAGAA |
| GCTCAGGA | N704 | TCCTGAGC |
| AGGAGTCC | N705 | GGACTCCT |
| CATGCCTA | N706 | TAGGCATG |
| GTAGAGAG | N707 | CTCTCTAC |
| CCTCTCTG | N708 | CAGAGAGG |
| AGCGTAGC | N709 | GCTACGCT |
| CAGCCTCG | N710 | CGAGGCTG |
| TGCCTCTT | N711 | AAGAGGCA |
| TCCTCTAC | N712 | GTAGAGGA |

Nextera Index Kit - Index 2 (i5) Adapters

The i5 index names vary for different Nextera products.

- N50x—Nextera DNA
- S50x—Nextera XT
- E50x—Nextera Enrichment and Nextera Rapid Capture Enrichment

| Bases in Adapter | i5 Index Name | i5 Bases for Sample Sheet iSeq, NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet MiniSeq, NextSeq, HiSeq 3000/4000 |
|------------------|---------------|---|---|
| TAGATCGC | [N/S/E]501 | TAGATCGC | GCGATCTA |
| CTCTCTAT | [N/S/E]502 | CTCTCTAT | ATAGAGAG |
| TATCCTCT | [N/S/E]503 | TATCCTCT | AGAGGATA |
| AGAGTAGA | [N/S/E]504 | AGAGTAGA | TCTACTCT |
| GTAAGGAG | [N/S/E]505 | GTAAGGAG | CTCCTTAC |
| ACTGCATA | [N/S/E]506 | ACTGCATA | TATGCAGT |
| AAGGAGTA | [N/S/E]507 | AAGGAGTA | TACTCCTT |
| CTAAGCCT | [N/S/E]508 | CTAAGCCT | AGGCTTAG |
| GCGTAAGA | [N/S/E]517 | GCGTAAGA | TCTTACGC |

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

| Bases in Adapter | i7 Index Name | i7 Bases for Sample Sheet |
|------------------|---------------|---------------------------|
| TCGCCTTA | N701 | TAAGGCGA |
| CTAGTACG | N702 | CGTACTAG |
| TTCTGCCT | N703 | AGGCAGAA |
| GCTCAGGA | N704 | TCCTGAGC |
| AGGAGTCC | N705 | GGACTCCT |
| CATGCCTA | N706 | TAGGCATG |
| GTAGAGAG | N707 | CTCTCTAC |
| CAGCCTCG | N710 | CGAGGCTG |
| TGCCTCTT | N711 | AAGAGGCA |
| TCCTCTAC | N712 | GTAGAGGA |
| TCATGAGC | N714 | GCTCATGA |

| Bases in Adapter | i7 Index Name | i7 Bases for Sample Sheet |
|------------------|---------------|---------------------------|
| CCTGAGAT | N715 | ATCTCAGG |
| TAGCGAGT | N716 | ACTCGCTA |
| GTAGCTCC | N718 | GGAGCTAC |
| TACTACGC | N719 | GCGTAGTA |
| AGGCTCCG | N720 | CGGAGCCT |
| GCAGCGTA | N721 | TACGCTGC |
| CTGCGCAT | N722 | ATGCGCAG |
| GAGCGCTA | N723 | TAGCGCTC |
| CGCTCAGT | N724 | ACTGAGCG |
| GTCTTAGG | N726 | CCTAAGAC |
| ACTGATCG | N727 | CGATCAGT |
| TAGCTGCA | N728 | TGCAGCTA |
| GACGTCGA | N729 | TCGACGTC |

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

| Bases in Adapter | i5 Index Name | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|------------------|---------------|---|---|
| CTCTCTAT | S502 | CTCTCTAT | ATAGAGAG |
| TATCCTCT | S503 | TATCCTCT | AGAGGATA |
| GTAAGGAG | S505 | GTAAGGAG | CTCCTTAC |
| ACTGCATA | S506 | ACTGCATA | TATGCAGT |
| AAGGAGTA | S507 | AAGGAGTA | TACTCCTT |
| CTAAGCCT | S508 | CTAAGCCT | AGGCTTAG |
| CGTCTAAT | S510 | CGTCTAAT | ATTAGACG |
| TCTCTCCG | S511 | TCTCTCCG | CGGAGAGA |
| TCGACTAG | S513 | TCGACTAG | CTAGTCGA |
| TTCTAGCT | S515 | TTCTAGCT | AGCTAGAA |

| Bases in Adapter | i5 Index Name | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|-------------------------|----------------------|--|--|
| CCTAGAGT | S516 | CCTAGAGT | ACTCTAGG |
| GCGTAAGA | S517 | GCGTAAGA | TCTTACGC |
| CTATTAAG | S518 | CTATTAAG | CTTAATAG |
| AAGGCTAT | S520 | AAGGCTAT | ATAGCCTT |
| GAGCCTTA | S521 | GAGCCTTA | TAAGGCTC |
| TTATGCGA | S522 | TTATGCGA | TCGCATAA |

Nextera DNA CD Indexes - Index 1 (i7) Adapters

| Bases in Adapter | i7 Index Name | i7 Bases for Sample Sheet |
|-------------------------|----------------------|----------------------------------|
| TCGCCTTA | H701 | TAAGGCGA |
| CTAGTACG | H702 | CGTACTAG |
| TTCTGCCT | H703 | AGGCAGAA |
| AGGAGTCC | H705 | GGA CT CCT |
| CATGCCTA | H706 | TAGGCATG |
| GTAGAGAG | H707 | CTCTCTAC |
| CAGCCTCG | H710 | CGAGGCTG |
| TGCCTCTT | H711 | AAGAGGCA |
| TCCTCTAC | H712 | GTAGAGGA |
| TCATGAGC | H714 | GCTCATGA |
| AGGCTCCG | H720 | CGGAGCCT |
| GAGCGCTA | H723 | TAGCGCTC |

Nextera DNA CD Indexes - Index 2 (i5) Adapters

| Bases in Adapter | i5 Index Name | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|------------------|---------------|---|---|
| TATCCTCT | H503 | TATCCTCT | AGAGGATA |
| GTAAGGAG | H505 | GTAAGGAG | CTCCTTAC |
| ACTGCATA | H506 | ACTGCATA | TATGCAGT |
| CGTCTAAT | H510 | CGTCTAAT | ATTAGACG |
| TCGACTAG | H513 | TCGACTAG | CTAGTCGA |
| CCTAGAGT | H516 | CCTAGAGT | ACTCTAGG |
| GCGTAAGA | H517 | GCGTAAGA | TCTTACGC |
| TTATGCGA | H522 | TTATGCGA | TCGCATAA |

IDT for Illumina UD Indexes

These unique dual (UD) index adapters have been duplexed in the plate to enforce the recommended pairing strategy.

TruSeq UD Indexes

Index 1 (i7) Adapters

GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [i7] ATCTCGTATGCCGTCTTCTGCTTG

Index 2 (i5) Adapters

AATGATACGGCGACCACCGAGATCTACAC [i5] ACACTCTTTCCCTACACGACGCTCTTCCGATCT

| UD Index Name | i7 Bases for Sample Sheet | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|---------------|------------------------------|---|---|
| UDI0001 | CCGCGGTT | AGCGCTAG | CTAGCGCT |
| UDI0002 | TTATAACC | GATATCGA | TCGATATC |
| UDI0003 | GGACTTGG | CGCAGACG | CGTCTGCG |
| UDI0004 | AAGTCCAA | TATGAGTA | TACTCATA |
| UDI0005 | ATCCACTG | AGGTGCGT | ACGCACCT |
| UDI0006 | GCTTGTC A | GAACATAC | GTATGTTC |
| UDI0007 | CAAGCTAG | ACATAGCG | CGCTATGT |
| UDI0008 | TGGATCGA | GTGCGATA | TATCGCAC |

| UD Index Name | i7 Bases for Sample Sheet | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|---------------|---------------------------|---|---|
| UDI0009 | AGTTCAGG | CCAACAGA | TCTGTTGG |
| UDI0010 | GACCTGAA | TTGGTGAG | CTCACCAA |
| UDI0011 | TCTCTACT | CGCGGTTC | GAACCGCG |
| UDI0012 | CTCTCGTC | TATAACCT | AGGTTATA |
| UDI0013 | CCAAGTCT | AAGGATGA | TCATCCTT |
| UDI0014 | TTGGACTC | GGAAGCAG | CTGCTTCC |
| UDI0015 | GGCTTAAG | TCGTGACC | GGTCACGA |
| UDI0016 | AATCCGGA | CTACAGTT | AACTGTAG |
| UDI0017 | TAATACAG | ATATTCAC | GTGAATAT |
| UDI0018 | CGGCGTGA | GCGCCTGT | ACAGGCGC |
| UDI0019 | ATGTAAGT | ACTCTATG | CATAGAGT |
| UDI0020 | GCACGGAC | GTCTCGCA | TGCGAGAC |
| UDI0021 | GGTACCTT | AAGACGTC | GACGTCTT |
| UDI0022 | AACGTTCC | GGAGTACT | AGTACTCC |
| UDI0023 | GCAGAATT | ACCGGCCA | TGGCCGGT |
| UDI0024 | ATGAGGCC | GTTAATTG | CAATTAAC |
| UDI0025 | ACTAAGAT | AACCGCGG | CCGCGGTT |
| UDI0026 | GTCGGAGC | GGTTATAA | TTATAACC |
| UDI0027 | CTTGGTAT | CCAAGTCC | GGACTTGG |
| UDI0028 | TCCAACGC | TTGGACTT | AAGTCCAA |
| UDI0029 | CCGTGAAG | CAGTGGAT | ATCCACTG |
| UDI0030 | TTACAGGA | TGACAAGC | GCTTGTC A |
| UDI0031 | GGCATTCT | CTAGCTTG | CAAGCTAG |
| UDI0032 | AATGCCTC | TCGATCCA | TGGATCGA |
| UDI0033 | TACCGAGG | CCTGAACT | AGTTCAGG |
| UDI0034 | CGTTAGAA | TTCAGGTC | GACCTGAA |
| UDI0035 | AGCCTCAT | AGTAGAGA | TCTCTACT |
| UDI0036 | GATTCTGC | GACGAGAG | CTCTCGTC |
| UDI0037 | TCGTAGTG | AGACTTGG | CCAAGTCT |
| UDI0038 | CTACGACA | GAGTCCAA | TTGGACTC |
| UDI0039 | TAAGTGGT | CTTAAGCC | GGCTTAAG |
| UDI0040 | CGGACAAC | TCCGGATT | AATCCGGA |
| UDI0041 | ATATGGAT | CTGTATTA | TAATACAG |

| UD Index Name | i7 Bases for Sample Sheet | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|---------------|---------------------------|---|---|
| UDI0042 | GCGCAAGC | TCACGCCG | CGGCGTGA |
| UDI0043 | AAGATACT | ACTTACAT | ATGTAAGT |
| UDI0044 | GGAGCGTC | GTCCGTGC | GCACGGAC |
| UDI0045 | ATGGCATG | AAGGTACC | GGTACCTT |
| UDI0046 | GCAATGCA | GGAACGTT | AACGTTCC |
| UDI0047 | GTTCCAAT | AATTCTGC | GCAGAATT |
| UDI0048 | ACCTTGGC | GGCCTCAT | ATGAGGCC |
| UDI0049 | ATATCTCG | ATCTTAGT | ACTAAGAT |
| UDI0050 | GCGCTCTA | GCTCCGAC | GTCGGAGC |
| UDI0051 | AACAGGTT | ATACCAAG | CTTGGTAT |
| UDI0052 | GGTGAACC | GCGTTGGA | TCCAACGC |
| UDI0053 | CAACAATG | CTTCACGG | CCGTGAAG |
| UDI0054 | TGGTGGCA | TCCTGTAA | TTACAGGA |
| UDI0055 | AGGCAGAG | AGAATGCC | GGCATTCT |
| UDI0056 | GAATGAGA | GAGGCATT | AATGCCTC |
| UDI0057 | TGCGGCGT | CCTCGGTA | TACCGAGG |
| UDI0058 | CATAATAC | TTCTAACG | CGTTAGAA |
| UDI0059 | GATCTATC | ATGAGGCT | AGCCTCAT |
| UDI0060 | AGCTCGCT | GCAGAATC | GATTCTGC |
| UDI0061 | CGGAACTG | CACTACGA | TCGTAGTG |
| UDI0062 | TAAGGTCA | TGTCGTAG | CTACGACA |
| UDI0063 | TTGCCTAG | ACCACTTA | TAAGTGGT |
| UDI0064 | CCATTCGA | GTTGTCCG | CGGACAAC |
| UDI0065 | ACACTAAG | ATCCATAT | ATATGGAT |
| UDI0066 | GTGTCGGA | GCTTGCGC | GCGCAAGC |
| UDI0067 | TTCCTGTT | AGTATCTT | AAGATACT |
| UDI0068 | CCTTCACC | GACGCTCC | GGAGCGTC |
| UDI0069 | GCCACAGG | CATGCCAT | ATGGCATG |
| UDI0070 | ATTGTGAA | TGCATTGC | GCAATGCA |
| UDI0071 | ACTCGTGT | ATTGGAAC | GTTCCAAT |
| UDI0072 | GTCTACAC | GCCAAGGT | ACCTTGGC |
| UDI0073 | CAATTAAC | CGAGATAT | ATATCTCG |
| UDI0074 | TGGCCGGT | TAGAGCGC | GCGCTCTA |

| UD Index Name | i7 Bases for Sample Sheet | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|---------------|---------------------------|---|---|
| UDI0075 | AGTACTCC | AACCTGTT | AACAGGTT |
| UDI0076 | GACGTCTT | GGTTCACC | GGTGAACC |
| UDI0077 | TGCGAGAC | CATTGTTG | CAACAATG |
| UDI0078 | CATAGAGT | TGCCACCA | TGGTGGCA |
| UDI0079 | ACAGGCGC | CTCTGCCT | AGGCAGAG |
| UDI0080 | GTGAATAT | TCTCATT | GAATGAGA |
| UDI0081 | AACTGTAG | ACGCCGCA | TGCGGCGT |
| UDI0082 | GGTCACGA | GTATTATG | CATAATAC |
| UDI0083 | CTGCTTCC | GATAGATC | GATCTATC |
| UDI0084 | TCATCCTT | AGCGAGCT | AGCTCGCT |
| UDI0085 | AGGTTATA | CAGTTCCG | CGGAACTG |
| UDI0086 | GAACCGCG | TGACCTTA | TAAGGTCA |
| UDI0087 | CTCACCAA | CTAGGCAA | TTGCCTAG |
| UDI0088 | TCTGTTGG | TCGAATGG | CCATTCGA |
| UDI0089 | TATCGCAC | CTTAGTGT | ACACTAAG |
| UDI0090 | CGCTATGT | TCCGACAC | GTGTCGGA |
| UDI0091 | GTATGTTC | AACAGGAA | TTCCTGTT |
| UDI0092 | ACGCACCT | GGTGAAGG | CCTTCACC |
| UDI0093 | TACTCATA | CCTGTGGC | GCCACAGG |
| UDI0094 | CGTCTGCG | TTCACAAT | ATTGTGAA |
| UDI0095 | TCGATATC | ACACGAGT | ACTCGTGT |
| UDI0096 | CTAGCGCT | GTGTAGAC | GTCTACAC |

Nextera UD Indexes

Index 1 (i7) Adapters

CAAGCAGAAGACGGCATAACGAGAT [i 7] GTCTCGTGGGCTCGG

Index 2 (i5) Adapters

AATGATACGGCGACCACCGAGATCTACAC [i 5] TCGTCGGCAGCGTC

| UD Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500* | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|---------------|---------------------|---------------------------|--|---|
| UDP0001 | CGCTCAGTTC | GAACTGAGCG | TCGTGGAGCG | CGCTCCACGA |
| UDP0002 | TATCTGACCT | AGGTCAGATA | CTACAAGATA | TATCTTGTAG |
| UDP0003 | ATATGAGACG | CGTCTCATAT | TATAGTAGCT | AGCTACTATA |
| UDP0004 | CTTATGGAAT | ATTCCATAAG | TGCCTGGTGG | CCACCAGGCA |
| UDP0005 | TAATCTCGTC | GACGAGATTA | ACATTATCCT | AGGATAATGT |
| UDP0006 | GCGCGATGTT | AACATCGCGC | GTCCACTTGT | ACAAGTGGAC |
| UDP0007 | AGAGCACTAG | CTAGTGCTCT | TGGAACAGTA | TACTGTTCCA |
| UDP0008 | TGCCTTGATC | GATCAAGGCA | CCTTGTTAAT | ATTAACAAGG |
| UDP0009 | CTACTCAGTC | GACTGAGTAG | GTTGATAGTG | CACTATCAAC |
| UDP0010 | TCGTCTGACT | AGTCAGACGA | ACCAGCGACA | TGTCGCTGGT |
| UDP0011 | GAACATACGG | CCGTATGTTC | CATACACTGT | ACAGTGTATG |
| UDP0012 | CCTATGACTC | GAGTCATAGG | GTGTGGCGCT | AGCGCCACAC |
| UDP0013 | TAATGGCAAG | CTTGCCATTA | ATCACGAAGG | CCTTCGTGAT |
| UDP0014 | GTGCCGCTTC | GAAGCGGCAC | CGGCTCTACT | AGTAGAGCCG |
| UDP0015 | CGGCAATGGA | TCCATTGCCG | GAATGCACGA | TCGTGCATTC |
| UDP0016 | GCCGTAACCG | CGGTTACGGC | AAGACTATAG | CTATAGTCTT |
| UDP0017 | AACCATTCTC | GAGAATGGTT | TCGGCAGCAA | TTGCTGCCGA |
| UDP0018 | GGTTGCCTCT | AGAGGCAACC | CTAATGATGG | CCATCATTAG |
| UDP0019 | CTAATGATGG | CCATCATTAG | GGTTGCCTCT | AGAGGCAACC |
| UDP0020 | TCGGCCTATC | GATAGGCCGA | CGCACATGGC | GCCATGTGCG |
| UDP0021 | AGTCAACCAT | ATGGTTGACT | GGCCTGTCCT | AGGACAGGCC |
| UDP0022 | GAGCGCAATA | TATTGCGCTC | CTGTGTTAGG | CCTAACACAG |
| UDP0023 | AACAAGGCGT | ACGCCTTGTT | TAAGGAACGT | ACGTTCCCTTA |
| UDP0024 | GTATGTAGAA | TTCTACATAC | CTAACTGTAA | TTACAGTTAG |
| UDP0025 | TTCTATGGTT | AACCATAGAA | GGCGAGATGG | CCATCTCGCC |
| UDP0026 | CCTCGCAACC | GGTTGCGAGG | AATAGAGCAA | TTGCTCTATT |

| UD Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500* | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|---------------|---------------------|---------------------------|--|---|
| UDP0027 | TGGATGCTTA | TAAGCATCCA | TCAATCCATT | AATGGATTGA |
| UDP0028 | ATGTCGTGGT | ACCACGACAT | TCGTATGCGG | CCGCATACGA |
| UDP0029 | AGAGTGCGGC | GCCGCACTCT | TCCGACCTCG | CGAGGTCGGA |
| UDP0030 | TGCCTGGTGG | CCACCAGGCA | CTTATGGAAT | ATTCCATAAG |
| UDP0031 | TGCGTGTAC | GTGACACGCA | GCTTACGGAC | GTCCGTAAGC |
| UDP0032 | CATACACTGT | ACAGTGTATG | GAACATACGG | CCGTATGTTC |
| UDP0033 | CGTATAATCA | TGATTATACG | GTTCGATTACA | TGTAATCGAC |
| UDP0034 | TACGCGGCTG | CAGCCGCGTA | ACTAGCCGTG | CACGGCTAGT |
| UDP0035 | GCGAGTTACC | GGTAACTCGC | AAGTTGGTGA | TCACCAACTT |
| UDP0036 | TACGGCCGGT | ACCGGCCGTA | TGGCAATATT | AATATTGCCA |
| UDP0037 | GTCGATTACA | TGTAATCGAC | GATCACCGCG | CGCGGTGATC |
| UDP0038 | CTGTCTGCAC | GTGCAGACAG | TACCATCCGT | ACGGATGGTA |
| UDP0039 | CAGCCGATTG | CAATCGGCTG | GCTGTAGGAA | TTCCTACAGC |
| UDP0040 | TGACTACATA | TATGTAGTCA | CGCACTAATG | CATTAGTGCG |
| UDP0041 | ATTGCCGAGT | ACTCGGCAAT | GACAACCTGAA | TTCAGTTGTC |
| UDP0042 | GCCATTAGAC | GTCTAATGGC | AGTGGTCAGG | CCTGACCACT |
| UDP0043 | GCGGAGATGG | CCATCTCGCC | TTCTATGGTT | AACCATAGAA |
| UDP0044 | TGGCTCGCAG | CTGCGAGCCA | AATCCGGCCA | TGGCCGGATT |
| UDP0045 | TAGAATAACG | CGTTATTCTA | CCATAAGGTT | AACCTTATGG |
| UDP0046 | TAATGGATCT | AGATCCATTA | ATCTCTACCA | TGGTAGAGAT |
| UDP0047 | TATCCAGGAC | GTCCTGGATA | CGGTGGCGAA | TTCGCCACCG |
| UDP0048 | AGTGCCACTG | CAGTGGCACT | TAACAATAGG | CCTATTGTTA |
| UDP0049 | GTGCAACACT | AGTGTTCAC | CTGGTACACG | CGTGTACCAG |
| UDP0050 | ACATGGTGTC | GACACCATGT | TCAACGTGTA | TACACGTTGA |
| UDP0051 | GACAGACAGG | CCTGTCTGTC | ACTGTTGTGA | TCACAACAGT |
| UDP0052 | TCTTACATCA | TGATGTAAGA | GTGCGTCCTT | AAGGACGCAC |
| UDP0053 | TTACAATTCC | GGAATTGTAA | AGCACATCCT | AGGATGTGCT |
| UDP0054 | AAGCTTATGC | GCATAAGCTT | TTCCGTCGCA | TGCGACGGAA |
| UDP0055 | TATTCCTCAG | CTGAGGAATA | CTTAACCACT | AGTGGTTAAG |
| UDP0056 | CTCGTGC GTT | AACGCACGAG | GCCTCGGATA | TATCCGAGGC |
| UDP0057 | TTAGGATAGA | TCTATCCTAA | CGTCGACTGG | CCAGTCGACG |

| UD Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500* | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|---------------|---------------------|---------------------------|--|---|
| UDP0058 | CCGAAGCGAG | CTCGCTTCGG | TACTAGTCAA | TTGACTAGTA |
| UDP0059 | GGACCAACAG | CTGTTGGTCC | ATAGACCGTT | AACGGTCTAT |
| UDP0060 | TTCCAGGTAA | TTACCTGGAA | ACAGTTCCAG | CTGGAAGTGT |
| UDP0061 | TGATTAGCCA | TGGCTAATCA | AGGCATGTAG | CTACATGCCT |
| UDP0062 | TAACAGTGTT | AACACTGTTA | GCAAGTCTCA | TGAGACTTGC |
| UDP0063 | ACCGCGCAAT | ATTGCGCGGT | TTGGCTCCGC | GCGGAGCCAA |
| UDP0064 | GTTGCGGCCA | TGGCGCGAAC | AACTGATACT | AGTATCAGTT |
| UDP0065 | AGACACATTA | TAATGTGTCT | GTAAGGCATA | TATGCCTTAC |
| UDP0066 | GCGTTGGTAT | ATACCAACGC | AATTGCTGCG | CGCAGCAATT |
| UDP0067 | AGCACATCCT | AGGATGTGCT | TTACAATTCC | GGAATTGTAA |
| UDP0068 | TTGTTCCGTG | CACGGAACAA | AACCTAGCAC | GTGCTAGGTT |
| UDP0069 | AAGTACTCCA | TGGAGTACTT | TCTGTGTGGA | TCCACACAGA |
| UDP0070 | ACGTCAATAC | GTATTGACGT | GGAATTCCAA | TTGGAATTCC |
| UDP0071 | GGTGTACAAG | CTTGTACACC | AAGCGCGCTT | AAGCGCGCTT |
| UDP0072 | CCACCTGTGT | ACACAGGTGG | TGAGCGTTGT | ACAACGCTCA |
| UDP0073 | GTTCCGCAGG | CCTGCGGAAC | ATCATAGGCT | AGCCTATGAT |
| UDP0074 | ACCTTATGAA | TTCATAAGGT | TGTTAGAAGG | CCTTCTAACA |
| UDP0075 | CGCTGCAGAG | CTCTGCAGCG | GATGGATGTA | TACATCCATC |
| UDP0076 | GTAGAGTCAG | CTGACTCTAC | ACGGCCGTCA | TGACGGCCGT |
| UDP0077 | GGATAACAGA | TCTGGTATCC | CGTTGCTTAC | GTAAGCAACG |
| UDP0078 | CGCACTAATG | CATTAGTGCG | TGACTACATA | TATGTAGTCA |
| UDP0079 | TCCTGACCGT | ACGGTCAGGA | CGGCCTCGTT | AACGAGGCCG |
| UDP0080 | CTGGCTTGCC | GGCAAGCCAG | CAAGCATCCG | CGGATGCTTG |
| UDP0081 | ACCAGCGACA | TGTCGCTGGT | TCGTCTGACT | AGTCAGACGA |
| UDP0082 | TTGTAACGGT | ACCGTTACAA | CTCATAGCGA | TCGCTATGAG |
| UDP0083 | GTAAGGCATA | TATGCCTTAC | AGACACATTA | TAATGTGTCT |
| UDP0084 | GTCCACTTGT | ACAAGTGGAC | GCGCGATGTT | AACATCGCGC |
| UDP0085 | TTAGGTACCA | TGGTACCTAA | CATGAGTACT | AGTACTCATG |
| UDP0086 | GGAATTCCAA | TTGGAATTCC | ACGTCAATAC | GTATTGACGT |
| UDP0087 | CATGTAGAGG | CCTCTACATG | GATACCTCCT | AGGAGGTATC |
| UDP0088 | TACACGCTCC | GGAGCGTGTA | ATCCGTAAGT | ACTTACGGAT |

| UD Index Name | i7 Bases in Adapter | i7 Bases for Sample Sheet | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500* | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|---------------|---------------------|---------------------------|--|---|
| UDP0089 | GCTTACGGAC | GTCCGTAAGC | CGTGTATCTT | AAGATACACG |
| UDP0090 | CGCTTGAAGT | ACTTCAAGCG | GAACCATGAA | TTCATGGTTC |
| UDP0091 | CGCCTTCTGA | TCAGAAGGCG | GGCCATCATA | TATGATGGCC |
| UDP0092 | ATACCAACGC | GCGTTGGTAT | ACATACTTCC | GGAAGTATGT |
| UDP0093 | CTGGATATGT | ACATATCCAG | TATGTGCAAT | ATTGCACATA |
| UDP0094 | CAATCTATGA | TCATAGATTG | GATTAAGGTG | CACCTTAATC |
| UDP0095 | GGTGAATAC | GTATTCCACC | ATGTAGACAA | TTGTCTACAT |
| UDP0096 | TGGACGGAGG | CCTCCGTCCA | CACATCGGTG | CACCGATGTG |

* i5 bases in adapter are the same sequences as the i5 Bases for Sample Sheet NovaSeq, etc.

TruSeq CD Indexes

Combinatorial dual (CD) index adapters for use with TruSeq (formerly known as TruSeq HT).

D501–D508 Adapters

AATGATACGGCGACCACCGAGATCTACAC [i5] ACACTCTTTCCCTACACGACGCTCTTCCGATCT

D701–D712 Adapters

GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [i7] ATCTCGTATGCCGTCTTCTGCTTG

Index 1 (i7) Adapters

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

| i7 Index Name | i7 Bases for Sample Sheet |
|----------------------|----------------------------------|
| D709 | CGGCTATG |
| D710 | TCCGCGAA |
| D711 | TCTCGCGC |
| D712 | AGCGATAG |

Index 2 (i5) Adapters

| i5 Index Name | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|----------------------|--|--|
| D501 | TATAGCCT | AGGCTATA |
| D502 | ATAGAGGC | GCCTCTAT |
| D503 | CCTATCCT | AGGATAGG |
| D504 | GGCTCTGA | TCAGAGCC |
| D505 | AGGCGAAG | CTTCGCCT |
| D506 | TAATCTTA | TAAGATTA |
| D507 | CAGGACGT | ACGTCCTG |
| D508 | GTA CTGAC | GTCAGTAC |

TruSeq Single Indexes

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

TruSeq Universal Adapter

5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

TruSeq Index Adapters (Index 1–27)

Index numbers 17, 24, and 26 are reserved.

TruSeq Adapter, Index 1

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACATCACGATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 2

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCGATGTATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 3

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACTTAGGCATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 4

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACTGACCAATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 5

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACACAGTGATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 6

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGCCAATATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 7

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCAGATCATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 8

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACACTTGAATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 9

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGATCAGATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 10

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACTAGCTTATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 11

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGGCTACATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 12

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCTTGTAATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 13

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGTCAACAATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 14

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACAGTTCGGTATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 15

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACATGTCAGAATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 16

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCCGTCGGATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 18

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTCCGCACATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 19

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTGAAACGATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 20

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTGGCCTTATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 21

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGTTTCGGAATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 22

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACCGTACGTAATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 23

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACGAGTGGATATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 25

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACACTGATATATCTCGTATGCCGTCTTCTGCTTG

TruSeq Adapter, Index 27

5' GATCGGAAGAGCACACGTCTGAACTCCAGTCACATTCCTTTATCTCGTATGCCGTCTTCTGCTTG

TruSeq Amplicon Kits

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

Index 1 (i7) Adapters

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

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

Index 2 (i5) Adapter

| i5 Index Name | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|---------------|--|---|
| A501 | TGAACCTT | AAGGTTCA |
| A502 | TGCTAAGT | ACTTAGCA |
| A503 | TGTTCTCT | AGAGAACA |
| A504 | TAAGACAC | GTGTCTTA |
| A505 | CTAATCGA | TCGATTAG |
| A506 | CTAGAACA | TGTTCTAG |
| A507 | TAAGTTCC | GGAACCTA |
| A508 | TAGACCTA | TAGGTCTA |

TruSeq DNA Methylation

Index PCR Primers

5' CAAGCAGAAGACGGCATAACGAGAT[6 bases]GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT

Index Adapters

| Index Name | 6-Base Sequence for Sample Sheet |
|------------|----------------------------------|
| Index 1 | ATCACG |

| Index Name | 6-Base Sequence for Sample Sheet |
|------------|----------------------------------|
| 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

3' Adapter

5' AGATCGGAAGAGCACACGTCT

Forward PCR Primer

5' ATGATACGGCGACCACCGAGATCTACACGTTTCAGAGTTCTACAGTCCGACG

Index PCR Primers

5' CAAGCAGAAGACGGCATACGAGAT[6 bases]GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT

Index Adapters

| Index Name | Six-Base Sequence for Sample Sheet |
|------------|------------------------------------|
| A001 | ATCACG |
| A002 | CGATGT |
| A003 | TTAGGC |
| A004 | TGACCA |
| A005 | ACAGTG |

| Index Name | Six-Base Sequence for Sample Sheet |
|------------|------------------------------------|
| A006 | GCCAAT |
| A007 | CAGATC |
| A008 | ACTTGA |
| A009 | GATCAG |
| A010 | TAGCTT |
| A011 | GGCTAC |
| A012 | CTTGTA |

TruSeq Synthetic Long-Read DNA

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

Long Reads Adapter

5' CCGGTTCTTCCCTGCCGAACCCTATCTTCGTCGGCAGCGTCAGATGTGTATAAGAGACAGTACGCTTGCAT

TruSeq Small RNA

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 (RPI1–RPI48)

Index sequence is 6 bases as underlined. Enter the underlined 6 bases on the sample sheet. Index sequences are read in the reverse complement in TruSeq small RNA libraries.

RNA PCR Primer, Index 1 (RPI1)

5' CAAGCAGAAGACGGCATAACGAGATCGTGATGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 2 (RPI2)

5' CAAGCAGAAGACGGCATAACGAGATACATCGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 3 (RPI3)

5' CAAGCAGAAGACGGCATAACGAGATGCCTAAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 4 (RPI4)

5' CAAGCAGAAGACGGCATAACGAGATTGGTCAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 5 (RPI5)

5' CAAGCAGAAGACGGCATAACGAGATCACTGTGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 6 (RPI6)

5' CAAGCAGAAGACGGCATAACGAGATATTGGCGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 7 (RPI7)

5' CAAGCAGAAGACGGCATAACGAGATGATCTGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 8 (RPI8)

5' CAAGCAGAAGACGGCATAACGAGATTCAAGTGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 9 (RPI9)

5' CAAGCAGAAGACGGCATAACGAGATCTGATCGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 10 (RPI10)

5' CAAGCAGAAGACGGCATAACGAGATAAGCTAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 11 (RPI11)

5' CAAGCAGAAGACGGCATAACGAGATGTAGCCGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 12 (RPI12)

5' CAAGCAGAAGACGGCATAACGAGATTACAAGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 13 (RPI13)

5' CAAGCAGAAGACGGCATAACGAGATTTGACTGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 14 (RPI14)

5' CAAGCAGAAGACGGCATAACGAGATGGAACTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 15 (RPI15)

5' CAAGCAGAAGACGGCATAACGAGATTGACATGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 16 (RPI16)

5' CAAGCAGAAGACGGCATAACGAGATTGGACGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 17 (RPI17)

5' CAAGCAGAAGACGGCATAACGAGATTCTCTACGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 18 (RPI18)

5' CAAGCAGAAGACGGCATAACGAGATTCGGACGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 19 (RPI19)

5' CAAGCAGAAGACGGCATAACGAGATTTTTCACGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 20 (RPI20)

5' CAAGCAGAAGACGGCATAACGAGATTGGCCACGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 21 (RPI21)

5' CAAGCAGAAGACGGCATAACGAGATCGAAACGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 22 (RPI22)

5' CAAGCAGAAGACGGCATAACGAGATCGTACGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 23 (RPI23)

5' CAAGCAGAAGACGGCATAACGAGATTCCACTCGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 24 (RPI24)

5' CAAGCAGAAGACGGCATAACGAGATTGCTACCGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 25 (RPI25)

5' CAAGCAGAAGACGGCATAACGAGATATCAGTGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 26 (RPI26)

5' CAAGCAGAAGACGGCATAACGAGATTGCTCATGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 27 (RPI27)

5' CAAGCAGAAGACGGCATAACGAGATTAGGAATGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 28 (RPI28)

5' CAAGCAGAAGACGGCATAACGAGATCTTTTTGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 29 (RPI29)

5' CAAGCAGAAGACGGCATAACGAGATTAGTTGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 30 (RPI30)

5' CAAGCAGAAGACGGCATAACGAGATTCCGGTGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 31 (RPI31)

5' CAAGCAGAAGACGGCATAACGAGATATCGTGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 32 (RPI32)

5' CAAGCAGAAGACGGCATAACGAGATTGAGTGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 33 (RPI33)

5' CAAGCAGAAGACGGCATAACGAGATTCGCTGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 34 (RPI34)

5' CAAGCAGAAGACGGCATAACGAGATTGCCATGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 35 (RPI35)

5' CAAGCAGAAGACGGCATAACGAGATAAAAATGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 36 (RPI36)

5' CAAGCAGAAGACGGCATAACGAGATTGTTGGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 37 (RPI37)

5' CAAGCAGAAGACGGCATAACGAGATATTCGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 38 (RPI38)

5' CAAGCAGAAGACGGCATAACGAGATAGCTAGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 39 (RPI39)

5' CAAGCAGAAGACGGCATAACGAGATGTATAGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 40 (RPI40)

5' CAAGCAGAAGACGGCATAACGAGATTCTGAGGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 41 (RPI41)

5' CAAGCAGAAGACGGCATAACGAGATGTCTGTCGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 42 (RPI42)

5' CAAGCAGAAGACGGCATAACGAGATCGATTAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 43 (RPI43)

5' CAAGCAGAAGACGGCATAACGAGATGCTGTAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 44 (RPI44)

5' CAAGCAGAAGACGGCATAACGAGATATTATAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 45 (RPI45)

5' CAAGCAGAAGACGGCATAACGAGATGAAATGAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 46 (RPI46)

5' CAAGCAGAAGACGGCATAACGAGATTCGGGAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 47 (RPI47)

5' CAAGCAGAAGACGGCATAACGAGATCTTCGAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

RNA PCR Primer, Index 48 (RPI48)

5' CAAGCAGAAGACGGCATAACGAGATTGCCGAGTGACTGGAGTTCCTTGGCACCCGAGAATTCCA

TruSeq Targeted RNA Expression

Index 1 (i7) Adapters

| i7 Index Name | i7 Bases for Sample Sheet | i7 Index Name | i7 Bases for Sample Sheet |
|---------------|---------------------------|---------------|---------------------------|
| R701 | ATCACG | R725 | ACTGAT |
| R702 | CGATGT | R726 | ATGAGC |
| R703 | TTAGGC | R727 | ATTCCT |
| R704 | TGACCA | R728 | CAAAAG |
| R705 | ACAGTG | R729 | CAACTA |
| R706 | GCCAAT | R730 | CACCGG |
| R707 | CAGATC | R731 | CACGAT |
| R708 | ACTTGA | R732 | CACTCA |
| R709 | GATCAG | R733 | CAGGCG |
| R710 | TAGCTT | R734 | CATGGC |
| R711 | GGCTAC | R735 | CATTTT |
| R712 | CTTGTA | R736 | CCAACA |
| R713 | AGTCAA | R737 | CGGAAT |
| R714 | AGTTCC | R738 | CTAGCT |
| R715 | ATGTCA | R739 | CTATAC |
| R716 | CCGTCC | R740 | CTCAGA |
| R717 | GTAGAG | R741 | GACGAC |
| R718 | GTCCGC | R742 | TAATCG |
| R719 | GTGAAA | R743 | TACAGC |
| R720 | GTGGCC | R744 | TATAAT |
| R721 | GTTTCG | R745 | TCATTC |
| R722 | CGTACG | R746 | TCCCGA |
| R723 | GAGTGG | R747 | TCGAAG |
| R724 | GGTAGC | R748 | TCGGCA |

Index 2 (i5) Adapter

| i5 Index Name | i5 Bases for Sample Sheet NovaSeq, MiSeq, HiSeq 2000/2500 | i5 Bases for Sample Sheet iSeq, MiniSeq, NextSeq, HiSeq 3000/4000 |
|----------------------|--|--|
| A501 | TGAACCTT | AAGGTTCA |
| A502 | TGCTAAGT | ACTTAGCA |
| A503 | TGTTCTCT | AGAGAACA |
| A504 | TAAGACAC | GTGTCTTA |
| A505 | CTAATCGA | TCGATTAG |
| A506 | CTAGAACA | TGTTCTAG |
| A507 | TAAGTTCC | GGAACCTA |
| A508 | TAGACCTA | TAGGTCTA |

Appendix

Process Controls for TruSeq Kits

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

CTE2 - 150bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCTTTAAG
AGTTGCTCTTTTTGTTTGGTAAGTTGCAAATCGAAGTTTTAGATTGAGTTCTACGTCGAGCGGCCGCGAT
```

CTE2 - 250bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCTTATCTGTCAAACCGCTAATGTCCGTTCTAAGACCGT
CTGGAGAACAACCTTGCCCATCAGTGCTTTTGAACCTTTTTTTTTCACAGGTCCTTCCGATTACACTGAGAAGCTGACCACAC
CTGCTAGAAGATGGAGGTATGCAGCCCGTTAGTAGGAGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGG
CGGCCGCGAT
```

CTE2 - 350bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCTAGAGACCATTTCGCGATTCCATGAGACTCCAAGGGTTC
TGCACAACCTTATGCACCTCTATTAGATCATTGTGTTCTACGAAGCCTGGACTGCATTACATATTCACAACCAACATGAGA
AGAGCGGAATAGATGGCCGGATGTTTGGTGGCTTTGATATATTGTGAGGAGCATTGCGAACCCCTAGAGCTGTCCGGTCAA
ATAACCCCTCACAATAAGTGTAATGTATGGGATAATCAAAGACTAAGGGAGGGCTTTTATAGAAGGCGTGAGGTCAAT
GCTATCCCCCTCTGAAGACGCGGCCGCGAT
```

CTE2 - 450bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCA
CTTTGAGGCATGTAATATGGTACTGAGCTTCGGCACAGGGCTCAAATTGCATCATTAAATGTCTCCGATGTGGCTATATG
TCATGGATAAAGGCAGCCCCCTATATCTTTTTTTTGTGGCAGCATGGGTCCATCAAAGCAATTATTTCAGGGTCTTAATGAC
CTCCACAGCTCTAAACGTAATTCATCTGGCTTTGCCTGTACTTACTTCCCTCCATGAAAAAAGTGTTGATAATGCTCATA
ATGCTGCCAGCAATTTCTCCCTTCTCAAGACTATTCTGGCTTCTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTG
CTGACAAAATTGCACTCTAAACGCTAGCTTAGGTCTTCTGCGGCCGCGAT
```

CTE2 - 550bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCGTTAGCTATCGTTTCGCGAGAAAGTTAGTAGACACACAG
GACCCAGGCGTGCAAGTCAATTTTCAGCTGACTACACCGATTCTGGTTAAAAGAGCCTATGGCCACCCTTATTTTAGAGAA
AAAAAACACACCTCTAATGTGTTGGGCACTAGAAAAAGCTAACTACCTAGTCCGTTTCTGGACGACTTCATTGGGAATA
ACATAACCCCTACTGTGATTAAGACTGGCACTGTCTAATGCTTTCTTCAATAGGTTTGGCTCATGTGTGATTCCCTCTG
GCAAACCTTATAGAGGACAAGCAGAATAAACCAATTCAAGGTCTGTTGTAGCTGAAGGCCTGGCCTGCCTGACAGTTAATTA
TGAGCATGTCTTGCCCTTCATGGTGGATATTCACAGCTGAAAGTGGTATTGGCATTTTTTTTCTGAGGACACAACGAGGAA
ATCTGATAAATACGGCCACCTGAAGTCTAGCTCGGAGTTAAACAATTTACCACGTTTATAGAGCGGCCGCGAT
```

CTE2 - 650bp

```
ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGGATCCGCTCGCACTTAGCCTGTTAAGGGGTTTCGCGCTCGTCTA
GTCTGTGCTGTTGCCTGGATAGTAAATTATCATGGTACAACTTTTTAAGAGCCAGTTAAATGGAGATGGATTTAAAAAGA
GTTATTGTAAAGTCTCCCCAGGTGTGTCATTAAATATCCCAACAGATTGCCCTGGCCTGACCCCTAAATGCAATTTTGG
GATTCCTTTTTAGTTGCTTTTCATTAAATGTACCAGCGCAGTAAAAAAGCACAAAGTATATTGTTTATGTAACCTACTA
TCTCATTGCACTGGTTACATGGCAGCTTCAGACTGACTAAAACCTACACTTTTCCACCATGGTTCAAAGATCAACAGAA
CTGGGCCAACAAAAGCAATTTTTTTCATGTGGTCTAACTACCAACTTATTATGAGTTAAGTTACTTTTTAGGTTTTAAATCA
CAGCAGTTTTTCCCTCCACACCTCCAGAGATACTTTTCAGGGTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTG
TTTTTTTATGGTGTCTTGTGCTCTGACAACCGCGTAAGGCATGGAAATTCAGCTATTTTATCCGATCGTTTATATGGGCGTG
CGGCCGCGAT
```

CTE2 - 750bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGATCCTTGGACCGTTAATTCATATATCGAAGTAGCAGGTTGTT
GCCCCGCCTGATGTTGCCACTACTTGGCTCATGACAGTTTTTTTTAGGCAATGCAAACACTACTATTTGATATTTTTTCCAAG
TACAGTTGTAGGGTACTCCTTATACTGATTCTTCTGAGCCTGTACGGGGAGCATTAGGTACTGATGTAGTAGGAGTTGAG
CTTCACAAATTCACCAGGTAAGCCCAAATTTATTTTCTGCTTGGACAGGTCCACCTCACATGGGTCTGTCTAATATATTA
AAAGAGGGATTTTTCTTTGCTGTATTGCAGCCCAGTATATCTGTTACTTACAGTAGTAGTCCATTATTGCTGGCCTAGGGG
CTTTTGGCTCCTACACGAACACCCTCTGTAAAATTTGAGGTGCTCCTTAGAGTCAAACCATTTCATGGAGCGCTCTGTGCA
TCTACCAACTATCGCTAAGCATTCACTTGGTTGGTTTAAAGTGGAGGCAACTCCATTATCTTCTAGCATAACCCTTCCCAGG
CTACATGTAGAAAGAGATCTGTTGGGCCCCACTATTTTTTACCCAGGGAAGCCTACTTTAGTTATAGCTTGCCAGAGAT
TTTTCTGTGTATGTAGAAAGTCACTTTTAAACACCAGGAGGTGGATGTGGGGCCAGGAAATATGTCAATAACGATACG
GGACTTCTAACAGTGACTIONCGCGCCGCGAT

CTE2 - 850bp

ATCCTGCAGATGCATCCAGTACTAGTATGGCCCGGGGATCCTTAAAGTCGTGTCCTTCTCCTACGATCTTGTGAACGATG
GATATTTTTCTTTCTAAACTTTAAACAAACAGTGGAGAGATGTTGTTGTGTGTGGAACGACGCTTAGCCTACCGAGGAAGA
TCCAGACTACAATAGAATATGTGGCCAAAACCTCTCCGCAACTTCAGCAGCAAAAAGGATATTATTGACATAACCTCCTCA
CAAAAAGTACACAAATGGCTAAATAACAGAGCCCCCTTTTTTACTAGGGAAATGGTGGATGTGGACTTTAGAATTTAAGA
TAATAAAGCTCTTGATCCCAATGTTATTTCCATGTGAGGGACATTAAATTGAGTAACCTTTGCCACATAACCCTCTCCCAG
AGTCCATTCTCTAAAACCTTGAAGCTCCGCCCCTTTTTACGCACATTAGGCTTCCAATTACGGTCAATGGTCTTGAAGATT
GGGAGCTTTTTGAAGAGTAATAAGAACCATCACAAAAGGAACCCAGAAGCCGGGAGTGTCTACCAAAAAAATTCAAGGGT
TAAAAAAAAGTGACATTTTTCTCCTGTTTTTACACATGATTTTGAATGCTGATGGGTCCACGTCCAGCTCTAAAGGTAGG
TTCATGGTTCTCCAAAGTTGCTTTCTTGTGAGAATTGAGCCACATCAGGTAGGTGGGAAGTAGATCAGTGAGGATGCTT
CACATGTGTGGGCACTGGGAACAGAATGCTTCAATAACACGAGCTGACGAGGGCCGCTATGAAAAAAAAGATTCTCTGT
GCCCCCTGGCGCCTCCGCACTTAAAGAATTGATGACCGTGCGGCCGCGAT

CTE1 - 123bp

GATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCTTTAAGAGTTGCTCTTTTTGTTTTGGTAAGTTGCAAATCGAAGT
TTTAGATTGAGTTCTACGTGAGCGGCCGCGATATCCTGCAGATGCA

CTE1 - 223bp

GATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGTGCTTTTTGAACCTTT
TTTTACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGCTAGAAGATGGAGGTATGCAGCCCCTTAGTAGGA
GTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCGGCCGCGATATCCTGCAGATGCA

CTE1 - 323bp

GATCCTAGAGACCATTTCGCGATTCCATGAGACTCCAAGGGTTCTGCACAACCTTATGCACCTCTATTAGATCATTGTGTTT
TACGAAGCCTGGACTGCATTACATATTCACAACCAACATGAGAAGAGCGGAATAGATGGCCGGATGTTTGGTGGCTTTGA
TATATTGTGAGGAGCATTGCGAACCCTAGAGCTGTCCGGTCAAATAACCCCTCACAAATAAGTGAATGTCTATGGGATAA
TCAAAGACTAAGGGAGGGCTTTTTATAGAAGGCGTGAGGTATGCTATCCCCCTCTGAAGACGCGGCCGCGATATCCTGC
AGATGCA

CTE1 - 423bp

GATCCGTATACGTTTTCTAATTTGTAGTTAACGGTTGGATACCCTTTGAGGCATGTAATATGGTACTGAGCTTCGGCACA
GGGCTCAAATTCATCATTAAATGTCTCCGATGTGGCTATATGTCATGGATAAAGGCAGCCCCCTATATCTTTTTTTTGTG
GCAGCATGGGTCATCAAAGCAATTATTTCAGGGTCTTAATGACCTCCACAGCTCTAAACGTAATTCATCTGGCTTTGCCT
GTACTTACTTCTCCATGAAAAAAGTGTGATAATGCTCATAATGCTGCCAGCAATTTCTCCCTTCTCAAGACTATT
CTGGCTTCTGGTACTTAAAAACAGGGCTTAGAGTATGGCTGCTGACAAAATTGCACTCTAAACGCTAGCTTAGGTCTT
CTGGCGGCCGCGATATCCTGCAGATGCA

CTE1 - 523bp

GATCCGTTAGCTATCGTTTCGCGAGAAAGTTAGTAGACACACAGGACCCAGGCGTGCAAGTCAATTTTCAGCTGACTACACC
GATTCTGGTTAAAGAGCCTATGGCCACCCTTATTTTTAGAGAAAAAAAACCACACCTCTAATGTGTTGGGCACTAGAAAA
AGCTAACTACCTAGTCCGTTTTCTGGACGACTTCATTGGGAATAACATACCCCCACTGTGATTAAGACTGGCACTGTCTT

AATGCTTTCTTCAATAGGTTTGGCTCATGTGTGATTCCCTCTGGCAAACCTTATAGAGGACAAGCAGAATAAACCAATTCA
AGGTCGTTGTAGCTGAAGGCCTGGCCTGCCTGACAGTTAATTATGAGCATGTCTTGCCCTTCATGGTGGATATTCACAGC
TGAAAGTGGTATTGGCATTFTTTTTCTGAGGACACAACGAGGAAATCTGATAAATACGGCCACCTGAAGTCTAGCTCGGAG
TTAACAATTTACCACGTTTAGAGCGGCCGCGATATCCTGCAGATGCA

CTE1 - 623bp

GATCCGCTCGCACTTAGCCTGTTAAGGGGTTTCGCGCTCGTCTAGTCTGTGCTGTTGCCTGGATAGTAAATTATCATGGTA
CAAACTTTTAAGAGCCAGTTAAATGGAGATGGATTTAAAAAGAGTTATTGTAAAGTCTCCCCAGGTGTGTCAATAATAT
CCCAACAGATTGCCCTGGCCTGACCCCTAAATGCAATTTGGGATTCCCTTTTAGTTGCTTTCATTAATAATGTACCAGC
GCAGTAAAAAAGCACAAAGTATATTGTTTATGTAACCTCACTATCTCATTTGCACTGGTTACATGGCAGCTTCAGACTGA
CTAAACTACACTTTTCCCACCATGGTTCAAAGATCAACAGAAGTGGGCCAACAAAAGCAATTTTTTTCATGTGGTCTAAC
TACCAACTTATTATGAGTTAAGTTACTTTTAGGTTTAAATCACAGCAGTTTTTCCCTCCACACCTCCCAGAGATACTTT
CAGGGTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTGTTTCTTTATGGTGTCTGTGTCTGACAACCGCGTAAG
GCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGTGGGCCGCGATATCCTGCAGATGCA

CTE1 - 723bp

GATCCTTGGACCGTTAATTCATATATCGAAGTAGCAGGTTGTTGCCCGCCTGATGTTGCCACTACTTGCTCATGACAGT
TTTTTTAGGCAATGCAAACCTACTATTTGATATTTTTTCCAAAGTACAGTTGTAGGGTACTCCTTATACTGATTCTTCTGA
GCCTGTACGGGGAGCATTAGGTACTGATGTAGTAGGAGTTGAGCTTCACAAATTCACCAGGTAAGCCCAAATTTATTTTC
TGCTTGGACAGGTCCACCTCACATGGGTCTGTCTAATATATTAAGAGGGATTTTTCTTTGCTGTATTGCAGCCCAGTAT
ATCTGTTACTTACAGTAGTAGTCCATTATTGCTGGCCTAGGGGCTTTTGTCTCTACACGAACACCCTCTGTAAAATTTG
AGGTCGTCCTTAGAGTCAAACCATTATGGAGCGCTCTGTGCATCTACCAACTATCGCTAAGCATTCACTTGGTTGGTTT
AAGTGGAGGCAACTCCATTATCTTCTAGCATAACCCTTCCAGGCTACATGTAGAAAGAGATCTGTTGGGCCCCACTATTT
TTTACCCAGGGAAGCCTACTTTAGTTATAGCTTGGCAGAGATTTTTCTGTGTCTGTGTAGAAAGTCACTTTTAAACACC
AGGAGGTGGATGTGGGGCCAGGAAATATGTCAATAACGATACGGGACTTCTAACAGTGACTCGCGGCCGCGATATCCTGC
AGATGCA

CTE1 - 823bp

GATCCTTAAGTTCGTGTCCTTCTCCTACGATCTTGTGAACGATGGATATTTTCTTTCTAAACTTTAAACAAACAGTGGAGA
GATGTTGTTGTGTGTGGAACGACGCTTAGCCTACCGAGGAAGATCCAGACTACAATAGAATATGTGGCCAAAACCTCTCCG
CAACTTCAGCAGCAAAAAGGATATTATTGACATAACCTCCTCACAAAAGTACACAAATGGCTAAATAACAGAGCCCCTC
TTTTTACTAGGGAATGGTGGATGTGGACTTTAGAATTTAAGATAATAAAGCTCTTGATCCCAATGTTATTTCCATGTGA
GGACATTAATAATTGAGTAACCTTTGCCACATAACCCTCTCCAGAGTCCATTCTCTAAAACCTTGAAGCTCCGCCCTTTTT
ACGCACATTAAGCTTCCAATTACGGTCAATGGTCTTGAAGATTGGGAGCTTTTGAAGAGTAATAAGAACCATCACAAAA
GGAACCCAGAAGCCGGGAGTGTCTACCAAAAAAATTCAAGGGTTAAAAAAGTGCATTTTTCTCCTGTTTTTTTACACAT
GATTTTGAATGCTGATGGGTCCACGTCCAGCTCTAAAGGTAGGTTTCATGGTTCTCAAAGTTGCTTTCTTGTGAGAATTG
AGCCACATCAGGTAGGTGGGGAAGTAGATCAGTGAGGATGCTTACATGTGTGGGCACTGGGAACAGAATGCTTCAATAA
CACGAGCTGACGAGGGCCCGCTATGAAAAAAGATTCTCTGTGCCCTTGGCGCCTCCGCACCTTAAAGAATTGATGACC
GTGCGGCCGCGATATCCTGCAGATGCA

CTA - 150bp

GGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCTTTAAGAGTTGCTCTTTTTGTTTGGTAAGTTGCAAATCG
AAGTTTTAGATTGAGTTCTACGTCGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

CTA - 250bp

GGGGGATCCTTATCTGTCAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGTGCTTTTTGAAC
CTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGCTAGAAGATGGAGGTATGCAGCCCCTTAGT
AGGAGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCGGCCGCGATATCCTGCAGATGCATCCAGTACT
AGTATGGCCC

CTA - 350bp

GGGGGATCCTAGAGACCATTTCGCGATTCCATGAGACTCCAAGGGTTCTGCACAACCTTATGCACCTCTATTAGATCATTGT
GTTCTACGAAGCCTGGACTGCATTACATATTCACAACCAACATGAGAAGAGCGGAATAGATGGCCGGATGTTTGGTGGCT

TTGATATATTGTGAGGAGCATTGCGAACCTAGAGCTGTCCGGTCAAATAACCCCTCACATAAGTGTAATGTCATGGG
ATAATCAAAGACTAAGGGAGGGCTTTTATAGAAGGCGTGAGGTCATGCTATCCCCCTCTGAAGACGCGGCCGATATC
CTGCAGATGCATCCAGTACTAGTATGGCCC

CTA - 450bp

GGGGGATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCACTTTGAGGCATGTAATATGGTACTGAGCTTCGG
CACAGGGCTCAAATTCATCATTAAATGTCTCCGATGTGGCTATATGTCATGGATAAAGGCAGCCCCCTATATCTTTTTT
TGTGGCAGCATGGGTCCATCAAAGCAATTATTCAGGGTCTTAATGACCTCCACAGCTCTAAACGTAATTCATCTGGCTTT
GCCTGTACTTACTTCCCTCCATGAAAAAAGTGTGATAATGCTCATAATGCTGCCAGCAATTTCCCTCCCTTCTCAAGAC
TATTCTGGCTTCCCTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTGCTGACAAAATTGCACTCTAAACGCTAGCTTAGG
TCTTCTGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

CTA - 550bp

GGGGGATCCGTTAGCTATCGTTCGCGAGAAAGTTAGTAGACACACAGGACCCAGGCGTGCAAGTCAATTTGAGCTGACTA
CACCGATTCTGGTTAAAAGAGCCTATGGCCACCCTTATTTTAGAGAAAAAAAACCACACCTCTAATGTGTTGGGCCTAG
AAAAAGCTAACTACCTAGTCCGTTTCTGACGACTTCATTGGGAATAACATACCCCCACTGTGATTAAGACTGGCACTG
TCCTAATGCTTTTCTCAATAGGTTTGGCTCATGTGTGATTCCCTCTGGCAAACCTTATAGAGGACAAGCAGAATAAACCAA
TTCAAGGTCGTTGTAGCTGAAGGCCTGGCCTGCCTGACAGTTAATTATGAGCATGTCTTGGCCTTTCATGGTGGATATTCA
CAGCTGAAAGTGGTATTGGCATTTTTTTCTGAGGACACAACGAGGAAATCTGATAAATACGGCCACCTGAAGTCTAGCTC
GGAGTTAAACAATTTACCACGTTTAGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

CTA - 650bp

GGGGGATCCGCTCGCACTTAGCCTGTTAAGGGTTTCGCGCTCGTCTAGTCTGTGCTGTTGCCTGGATAGTAAATTATCAT
GGTACAAACTTTTAAAGAGCCAGTTAAATGGAGATGGATTTAAAAGAGTTATTGTAAAGTCTCCCCAGGTGTGTCATTAA
ATATCCCAACAGATTGCCCTGGCCTGACCCCTAAATGCAATTTTGGGATTCCCTTTTAGTTGCTTTCATTAATGTAC
CAGCGCAGTAAAAAAGCACAAAGTATATTGTTTATGTAACCTCACTATCTCATTTGCACTGGTTACATGGCAGCTTCAGA
CTGACTAAAACCTACTTTTTCCACCATGGTTCAAAGATCAACAGAAGTGGGCCAACAAAAGCAATTTTTTTCATGTGGTC
TAACTACCAACTTATTATGAGTTAAGTTACTTTTTAGGTTTAAAATCACAGCAGTTTTTCCCTCCACACCTCCCAGAGATA
CTTTTCAGGGTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTGTTCCTTATGGTGTCTGTGCTGACAACCGCG
TAAGGCATGGAAATTCAGCTATTTATCCGATCGTTTATATGGGCGTGCGGCCGCGATATCCTGCAGATGCATCCAGTACT
AGTATGGCCC

CTA - 750bp

GGGGGATCCTTGGACCGTTAATTCATATATCGAAGTAGCAGGTTGTTGCCCGCCTGATGTTGCCACTACTTGCTCATGA
CAGTTTTTTTTAGGCAATGCAAACTACTATTTGATATTTTTTCCAAGTACAGTTGTAGGGTACTCCTTATACTGATTCTT
CTGAGCCTGTACGGGAGCATTAGGTACTGATGTAGTAGGAGTTGAGCTTCAAAATTACCAGGTAAGCCCAAATTTAT
TTTCTGCTTGGACAGGTCCACCTCACATGGGTCTGTCTAATATATTAAGAGGGATTTTTCTTTGCTGTATTGCAGCCCA
GTATATCTGTTACTTACAGTAGTAGTCCATTATTGCTGGCCTAGGGGCTTTTTGCTCCTACACGAACACCCTCTGTAAAA
TTTGAGGTCGTCCTTAGAGTCAAACCATTATGAGAGCGCTCTGTGCATCTACCAACTATCGCTAAGCATTCACTTGGTTG
GTTTAAAGTGGAGGCAACTCCATTATCTTCTAGCATAACCCTTCCCAGGCTACATGTAGAAAGAGATCTGTTGGGCCCCACT
ATTTTTTACCAGGGAAGCCTACTTTAGTTATAGCTTGGCAGAGATTTTCTGTGTCTGTAGAAAGTCACTACTTTTAA
CACCAGGAGGTGGATGTGGGGCCAGGAAATATGTCAATAACGATACGGGACTTCTAACAGTACTCGCGGCCGCGATATC
CTGCAGATGCATCCAGTACTAGTATGGCCC

CTA - 850bp

GGGGGATCCTTAAAGTCGTGTCTTCTCCTACGATCTTGTGAACGATGGATATTTTCTTTCTAAACTTTAAACAAACAGTG
GAGAGATGTTGTTGTGTGGAACGACGCTTAGCCTACCGAGGAAGATCCAGACTACAATAGAATATGTGGCCAAAACCTC
TCCGCAACTTCAGCAGCAAAAAGGATATTATTGACATAACCTCCTCACAAAAAGTACACAAATGGCTAAATAACAGAGCC
CCTCTTTTTTACTAGGGAATGGTGGATGTGGACTTTAGAATTTAAGATAATAAAGCTCTTGATCCCAATGTTATTTCCAT
GTGAGGGACATTAATTTAGTAACCTTTGCCACATAACCCTCTCCCAGAGTCCATTCTCTAAAACCTTGAAGCTCCGCCCT
TTTTACGCACATTAGGCTTCCAATTACGGTCAATGGTCTTGAAGATTGGGAGCTTTTGAAGAGTAATAAGAACCATCACA
AAAAGGAACCCAGAAGCCGGGAGTGTCTACCAAAAAAATTCAAGGTTAAAAAAAAGTGACATTTTCTCCTGTTTTTTAC
ACATGATTTTGAATGCTGATGGGTCCACGTCCAGCTCTAAAGGTAGGTTTATGGTTCTCCAAAGTTGCTTTCTTGTGCTGAG

ATTGAGCCACATCAGGTAGGTGGGGAAGTAGATCAGTGAGGATGCTTCACATGTGTGGGCACTGGGAACAGAATGCTTCA
ATAACACGAGCTGACGAGGGCCCGCTATGAAAAAAGATTCTCTGTGCCCCCTGGCGCCTCCGCACCTAAAGAATTGAT
GACCGTGCGGCCGCGATATCCTGCAGATGCATCCAGTACTAGTATGGCCC

CTL - 150bp

AGTATGGCCCCGGGGATCCTACGTTCCAAATGCAGCGAGCTCGTATAACCCTTTAAGAGTTGCTCTTTTTGTTTTGGTAAG
TTGCAAATCGAAGTTTTAGATTGAGTTCTACGTCGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACA

CTL - 250bp

AGTATGGCCCCGGGGATCCTTATCTGTCAAAACCGCTAATGTCCGTTCTAAGACCGTCTGGAGAACACTTGCCCATCAGT
GCTTTTTGAACCTTTTTTTCACAGGTCCCTTCCGATTACACTGAGAAGCTGACCACACCTGCTAGAAGATGGAGGTATGCA
GCCGTTTAGTAGGAGTAATACTACCCAGCTTATAACCCTCAAACGTAGGGCAGATGGCGGCCGCGATATCCTGCAGATGC
ATCCAGTACA

CTL - 350bp

AGTATGGCCCCGGGGATCCTAGAGACCATTTCGCGATTCCATGAGACTCCAAGGGTTCTGCACAACCTTATGCACCTCTATT
AGATCATTGTGTTCTACGAAGCCTGGACTGCATTACATATTACAACCAACATGAGAAGAGCGGAATAGATGGCCGGATG
TTTTGGTGGCTTTGATATATTGTGAGGAGCATTGCGAACCTAGAGCTGTCCGGTCAAATAACCCCTCACAAATAAGTGTA
ATGTCATGGGATAATCAAAAGACTAAGGGAGGGCTTTTTATAGAAGGCGTGAGGTCATGCTATCCCCCTCTGAAGACGCG
CCGCGATATCCTGCAGATGCATCCAGTACA

CTL - 450bp

AGTATGGCCCCGGGGATCCGTATACGTTTCTAATTTGTAGTTAACGGTTGGATACCACTTTGAGGCATGTAATATGGTAC
TGAGCTTCGGCACAGGGCTCAAATTGCATCATTAAATGTCTCCGATGTGGCTATATGTCATGGATAAAGGCAGCCCCCTA
TATCTTTTTTTGTGGCAGCATGGGTCCATCAAAGCAATTATTGAGGCTTTAATGACCTCCACAGCTCTAAACGTAATTC
ATCTGGCTTTGCCTGTACTTACTTCCATGAAAAAAGTGTGATAATGCTCATAATGCTGCCAGCAATTTCCCTCCC
TTCTCAAGACTATTCTGGCTTCCCTGGGTACTTAAAAACAGGGCTTAGAGTATGGCTGCTGACAAAATTGCACTCTAAACG
CTAGCTTAGGTCTTCTGCGGCCGCGATATCCTGCAGATGCATCCAGTACA

CTL - 550bp

AGTATGGCCCCGGGGATCCGTTAGCTATCGTTCGCGAGAAAGTTAGTAGACACACAGGACCCAGGCGTGCAAGTCAATTT
CAGCTGACTACACCGATTCTGGTTAAAGAGCCTATGGCCACCCTTATTTTAGAGAAAAAACCACACCTCTAATGTGT
TGGGCACTAGAAAAAGCTAACTACCTAGTCCGTTTCTGGACGACTTCATTGGGAATAACATACCCCCACTGTGATTAAG
ACTGGCACTGTCTAATGCTTTCTTCAATAGTTTGGCTCATGTGTGATTCCCTCTGGCAAACCTTATAGAGGACAAGCAG
AATAAACCAATTCAAGGTCGTTGTAGCTGAAGGCCTGGCCTGCCTGACAGTTAATTATGAGCATGCTTTGCCCTTCATGG
TGGATATTCACAGCTGAAAGTGGTATTGGCATTTTTTCTGAGGACACAACGAGGAAATCTGATAAATACGGCCACCTGA
AGTCTAGCTCGGAGTTAAACAATTTACCACGTTTAGAGCGGCCGCGATATCCTGCAGATGCATCCAGTACA

CTL - 650bp

AGTATGGCCCCGGGGATCCGCTCGCACTTAGCCTGTTAAGGGGTTTCGCGCTCGTCTAGTCTGTGCTGTTGCCTGGATAGT
AAATTATCATGGTACAACTTTTTAAGAGCCAGTTAAATGGAGATGGATTTAAAAAGAGTTATTGTAAAGTCTCCCCAGGT
GTGTCATTAATATCCCAACAGATTGCCCTGGCCTGACCCCTAAATGCAATTTGGGATTCCCTTTTAGTTGCTTTTCAT
TAAAATGTACCAGCGCAGTAAAAAAGCACAAAGTATATTGTTTATGTAACCTCACTATCTCATTGCACTGGTTACATGG
CAGCTTCAGACTGACTAAAACCTACTTTTTCCACCATGGTTCAAAGATCAACAGAACTGGGCCAACAAAAGCAATTTTT
TCATGTGGTCTAACTACCAACTTATTATGAGTTAAGTTACTTTTTAGGTTTAAAATCACAGCAGTTTTTCCCTCCACACCT
CCCAGAGATACTTTGAGGTTGGCTAAACTTGGCTAAAGGCTTCCGGACCAACCCTTGTTCCTTTATGGTGCTTGTGTCCT
GACAACCGCGTAAGGCATGGAATTCAGCTATTTATCCGATCGTTTTATATGGGCGTGCGGCCGCGATATCCTGCAGATGC
ATCCAGTACA

CTL - 750bp

AGTATGGCCCCGGGGATCCTTGGACCGTTAATTCATATATCGAAGTAGCAGGTTGTTGCCCCGCCTGATGTTGCCACTAC
TTGCTCATGACAGTTTTTTTAGGCAATGCAACTACTATTTGATATTTTTTCCAAGTACAGTTGTAGGGTACTCCTTAT
ACTGATTCTTCTGAGCCTGTACGGGAGCATTAGGTACTGATGTAGTAGGAGTTGAGCTTCACAAATTCACCAGGTAAGC

CCAAATTTATTTTCTGCTTGGACAGGTCCACCTCACATGGGTCTGTCTAATATATTTAAAAGAGGGATTTTCTTTGCTGTA
 TTGCAGCCCAGTATATCTGTTACTTACAGTAGTAGTCCATTATTGCTGGCCTAGGGGCTTTTGTCTCTACACGAACACCA
 CTCTGTAAAATTTGAGGTCGTCCTTAGAGTCAAACCATTTCATGGAGCGCTCTGTGCATCTACCAACTATCGCTAAGCATT
 CACTTGGTTGGTTTAAAGTGGAGGCAACTCCATTATCTTCTAGCATACCCTTCCCAGGCTACATGTAGAAAGAGATCTGTT
 GGGCCCCACTATTTTTTACCCAGGGAAGCCTACTTTAGTTATAGCTTGCCAGAGATTTTCTGTGTCATGTAGAAGTCAT
 CCACTTTTAAACACCAGGAGGTGGATGTGGGGCCAGGAAATATGTCAATAACGATACGGGACTTCTAACAGTGACTCGCGG
 CCGCGATATCCTGCAGATGCATCCAGTACA

CTL - 850bp

AGTATGGCCCCGGGGATCCTTAAGTCGTGTCCTTCTCCTACGATCTTGTGAACGATGGATATTTTCTTTCTAA
 ACTTTAAACAAACAGTGGAGAGATGTTGTTGTGTGTGGAACGACGCTTAGCCTACCGAGGAAGATCCAGACTA
 CAATAGAATATGTGGCCAAAACCTCTCCGCAACTTCAGCAGCAAAAAGGATATTATTGACATAACCTCCTCACA
 AAAAGTACACAAATGGCTAAATAACAGAGCCCCTCTTTTTACTAGGGAATGGTGGATGTGGACTTTAGAATT
 TAAGATAATAAAGCTCTTGATCCCAATGTTATTTCCATGTGAGGGACATTAAATTGAGTAACCTTTGCCACAT
 ACCCTCTCCAGAGTCCATTCTCTAAAACCTTGAAGCTCCGCCCCCTTTTTACGCACATTAGGCTTCCAATTACG
 GTCAATGGTCTTGAAGATTGGGAGCTTTTGAAGAGTAATAAGAACCATCACAAAAGGAACCCAGAAGCCGGG
 AGTGTCTACCAAAAAAATTCAAGGGTTAAAAAAAAGTGACATTTTCTCCTGTTTTTTACACATGATTTTGAAT
 GCTGATGGGTCCACGTCCAGCTCTAAAGGTAGGTTTCATGGTTCTCAAAGTTGCTTTCTTGTGAGAATTGAGC
 CACATCAGGTAGGTGGGGAAGTAGATCAGTGAGGATGCTTCACATGTGTGGGCACTGGGAACAGAATGCTTCA
 ATAACACGAGCTGACGAGGGCCCGCTATGAAAAAAAAGATTCTCTGTGCCCCCTGGCGCCTCCGCACTTAAAG
 AATTGATGACCGTGC GGCCGCGATATCCTGCAGATGCATCCAGTACALegacy Kits

The kits listed in this section are no longer sold.

Nextera DNA Sample Prep Kit (Epicentre Biotechnologies)

(Obsolete)

As a replacement, use catalog # FC-121-1030 or catalog # FC-121-1031.

Transposon Sequences

5' -GCCTCCCTCGCGCCATCAGAGATGTGTATAAGAGACAG

5' -GCCTTGCCAGCCCGCTCAGAGATGTGTATAAGAGACAG

Adapters (showing optional bar code)

5' -AATGATACGGCGACCACCGAGATCTACACGCTCCCTCGCGCCATCAG

5' -CAAGCAGAAGACGGCATAACGAGAT[**barcode**]CGGTCTGCCTTGCCAGCCCGCTCAG-3'

PCR Primers

5' -AATGATACGGCGACCACCGA

5' -CAAGCAGAAGACGGCATAACGA

Oligonucleotide Sequences for Genomic DNA

(Obsolete)

Adapters

5' P-GATCGGAAGAGCTCGTATGCCGTCTTCTGCTTG

5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

PCR Primers

5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

5' CAAGCAGAAGACGGCATAACGAGCTCTTCCGATCT

Genomic DNA Sequencing Primer

5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

Oligonucleotide Sequences for Paired End DNA

(Obsolete)

PE Adapters

5' P-GATCGGAAGAGCGGTTCAGCAGGAATGCCGAG

5' ACACTCTTTCCCTACACGACGCTCTTCCGATCT

PE PCR Primer 1.0

5' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

PE PCR Primer 2.0

5' CAAGCAGAAGACGGCATAACGAGATCGGTCTCGGCATTCCTGCTGAACCGCTCTTCCGATCT

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' CAAGCAGAAGACGGCATAACGAGATCGTGATGTGACTGGAGTTC

PCR Primer, Index 2

5' CAAGCAGAAGACGGCATAACGAGATACATCGGTGACTGGAGTTC

PCR Primer, Index 3

5' CAAGCAGAAGACGGCATAACGAGATGCCTAAGTGACTGGAGTTC

PCR Primer, Index 4

5' CAAGCAGAAGACGGCATAACGAGATTGGTCAGTGACTGGAGTTC

PCR Primer, Index 5

5' CAAGCAGAAGACGGCATAACGAGATCACTGTGTGACTGGAGTTC

PCR Primer, Index 6

5' CAAGCAGAAGACGGCATAACGAGATATTGGCGTGACTGGAGTTC

PCR Primer, Index 7

5' CAAGCAGAAGACGGCATAACGAGATGATCTGGTGACTGGAGTTC

PCR Primer, Index 8

5' CAAGCAGAAGACGGCATAACGAGATTCAAGTGTGACTGGAGTTC

PCR Primer, Index 9

5' CAAGCAGAAGACGGCATAACGAGATCTGATCGTGACTGGAGTTC

PCR Primer, Index 10

5' CAAGCAGAAGACGGCATAACGAGATAAGCTAGTGACTGGAGTTC

PCR Primer, Index 11

5' CAAGCAGAAGACGGCATAACGAGATGTAGCCGTGACTGGAGTTC

PCR Primer, Index 12

5' CAAGCAGAAGACGGCATAACGAGATTACAAGGTGACTGGAGTTC

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

(Obsolete)

RT Primer

5' CAAGCAGAAGACGGCATAACGA

5' RNA Adapter

5' GUUCAGAGUUCUACAGUCCGACGAUC

3' RNA Adapter

5' P-UCGUAUGCCGUCUUCUGCUUGUdT

v1.5 Small RNA 3' Adapter

5' /5rApp/ATCTCGTATGCCGTCTTCTGCTTG/3ddC/

Small RNA PCR Primer 1

5' CAAGCAGAAGACGGCATAACGA

Small RNA PCR Primer 2

5' AATGATACGGCGACCACCGACAGGTTTCAGAGTTCTACAGTCCGA

Small RNA Sequencing Primer

5' CGACAGGTTTCAGAGTTCTACAGTCCGACGATC

Revision History

| Document | Date | Description of Change |
|------------------------------|----------------|---|
| Document # 1000000002694 v08 | October 2018 | Added IDT for Illumina UD indexes for Nextera. |
| 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 Flex kits for use with MiSeq and HiSeq sequencers. Reorganized TruSeq sections. |
| Document # 1000000002694 v02 | September 2017 | Added adapters for Nextera DNA Flex kits. |
| 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 # 1000000002694 v00 | October 2015 | Added information for the following TruSight kits: <ul style="list-style-type: none"> • TruSight Cardio • TruSight Myeloid Sequencing Panel • TruSight One • TruSight Rapid Capture • TruSight Tumor 15 • TruSight Tumor 26 Created a TruSeq Amplicon section with information for the following kits: <ul style="list-style-type: none"> • TruSeq Custom Amplicon 1.5 • TruSeq Amplicon Cancer Panel • TruSeq Custom Amplicon Low Input Marked obsolete kits as obsolete . Grouped legacy kit information in new section titled Legacy Kits. Reformatted and reorganized the contents. Assigned document # 1000000002694. |

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