

IDT for Illumina DNA/RNA UD Indexes (IDT for Illumina Nextera DNA UD Indexes)

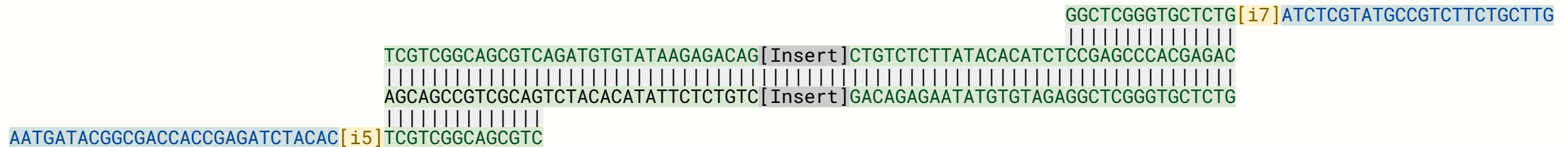
https://jp.support.illumina.com/sequencing/sequencing_kits/idt-nextera-dna-udi.html

Index 1 (i7) Adapters

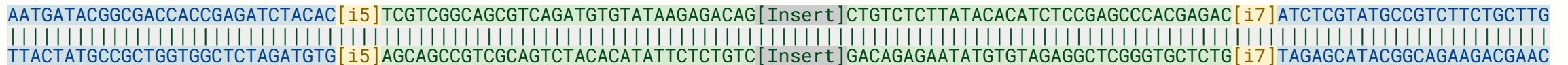
CAAGCAGAAGACGGCATACGAGAT [i7] GTCTCGTGGGCTCGG

Index 2 (i5) Adapters

AATGATACGGCGACCACCGAGATCTACAC [i5] TCGTCGGCAGCGTC



↓PCR



ATGC:P5/P7

ATGC:Sequence Primer

[i5][i7]:Index Sequence

||||:duplex

IDT for Illumina–TruSeq DNA and RNA UD Indexes

<https://support-docs.illumina.com/SHARE/AdapterSeq/Content/SHARE/AdapterSeq/TruSeq/UDIndexes.htm>

Index 1 (i7) Adapters

GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [i7] ATCTCGTATGCCGTCTTCTGCTTG

Index 2 (i5) Adapters

AATGATACGGCGACCACCGAGATCTACAC [i5] ACACTCTTTCCCTACACGACGCTCTTCCGATCT

↓Y型2本鎖

AATGATACGGCGACCACCGAGATCTACAC [i5] ACACTCTTTCCCTACACGACGCTCTTCCGATCT [Insert]
GTTTCGTCTTCTGCCGTATGCTCTA [i7] CACTGACCTCAAGTCTGCACACGAGAAGGCTAGA [Insert]

ATGC:P5/P7

ATGC:Sequence Primer

[i5][i7]:Index Sequence

||||:duplex

illumina Nextera Transposase Adapters

<https://support-docs.illumina.com/SHARE/AdapterSeq/illumina-adapter-sequences.pdf>

Read 1

5' **TCGTCGGCAGCGTCAGATGTGTATAAGAGACAG**

Read 2

5' **GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG**

TCGTCGGCAGCGTCAGATGTGTATAAGAGACAG [Insert] **CTGTCTCTTATACACATCTCCGAGCCCACGAGAC**
|||||:duplex
AGCAGCCGTCGCAGTCTACACATATTCTCTGTC [Insert] **GACAGAGAATATGTGTAGAGGCTCGGGTGCTCTG**

↓その他index primerをPCR付加しライブラリー完成へ

ATGC:Sequence Primer

|||||:duplex

illumina TruSeq Single Indexes

<https://support-docs.illumina.com/SHARE/AdapterSeq/Content/SHARE/AdapterSeq/TruSeq/SingleIndexes.htm>

TruSeq Universal Adapter

AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT

DNA and RNA Index Adapters

GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [index] ATCTCGTATGCCGTCTTCTGCTTG

↓Y型2本鎖

AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT [Insert]
|||||
GTTCTGCTTCTGCGTATGCTCTA [index] CACTGACCTCAAGTCTGCACACGAGAAGGCTAGA [Insert]

ATGC:P5/P7

ATGC:Sequence Primer

[index]:Index Sequence

|||||:duplex

KAPA Unique Dual-Indexed Adapter Kit

<https://n-genetics.com/products/1104/1023/17135.pdf>

Index 1 (i7) Adapters

GATCGGAAGAGCACACGTCTGAACTCCAGTCAC [i7] ATCTCGTATGCCGTCTTCTGCTTG

Index 2 (i5) Adapters

AATGATACGGCGACCACCGAGATCTACAC [i5] ACACTCTTTCCCTACACGACGCTCTTCCGATCT

↓Y型2本鎖

AATGATACGGCGACCACCGAGATCTACAC [i5] ACACTCTTTCCCTACACGACGCTCTTCCGATCT [Insert]
GTTTCGTCTTCTGCCGTATGCTCTA [i7] CACTGACCTCAAGTCTGCACACGAGAAGGCTAGA [Insert]

ATGC:P5/P7

ATGC:Sequence Primer

[i5][i7]:Index Sequence

||||:duplex

NEBNext Adaptor for Illumina

<https://www.nebj.jp/f/892>

NEBNext Adaptor for Illumina

/5Phos/GATCGGAAGAGCACACGTCTGAACTCCAGTCDUACACTCTTCCCTACACGACGCTCTTCCGATC-s-T

ACACTCTTCCCTACACGACGCTCTTCCGATCT
DU CTGACCTCAAGTCTGCACACGAGAAGGCTAG

↓USER EnzymeによりdU除去

ACACTCTTCCCTACACGACGCTCTTCCGATCT
CTGACCTCAAGTCTGCACACGAGAAGGCTAG

↓その他index primerをPCR付加しライブラリー完成へ

ATGC:Sequence Primer

dU:deoxyuridine

||||:duplex

NEBNext Multiplex Oligos for Illumina (Dual Index Primers Set -)

<https://international.neb.com/-/media/nebus/files/manuals/manuale7600.pdf>

NEBNext i5XX Primer

AATGATACGGCGACCACCGAGATCTACAC [i5] ACACTCTTCCCTACACGACGCTCTTCCGATC*T

NEBNext i7XX Primer

CAAGCAGAAGACGGCATAACGAGAT [i7] GTGACTGGAGTTCAGACGTGTGCTCTTCCGATC*T

ATGC:P5/P7

ATGC:Sequence Primer

[i5][i7]:Index Sequence

||||:duplex

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                                TCTAGCCTTCTCGTGTGCAGACTTGAGGTCAGTG [i7] TAGAGCATACGGCAGAAGACGAAC
                                |||||
ACACTCTTCCCTACACGACGCTCTTCCGATCT [Insert] AGATCGGAAGAGCACACGTCTGAACTCCAGTC
                                |||||
CTGACCTCAAGTCTGCACACGAGAAGGCTAGA [Insert] TCTAGCCTTCTCGCAGCACATCCCTTCTCACA
    
```

↓PCR

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TGTGAGAAAGGGATGTGCTGCGAGAAGGCTAGA [Insert] TCTAGCCTTCTCGTGTGCAGACTTGAGGTCAGTG [i7] TAGAGCATACGGCAGAAGACGAAC
|||||
ACACTCTTCCCTACACGACGCTCTTCCGATCT [Insert] AGATCGGAAGAGCACACGTCTGAACTCCAGTC
    
```

↓

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AATGATACGGCGACCACCGAGATCTACAC [i5] ACACTCTTCCCTACACGACGCTCTTCCGATCT
|||||
TGTGAGAAAGGGATGTGCTGCGAGAAGGCTAGA [Insert] TCTAGCCTTCTCGTGTGCAGACTTGAGGTCAGTG [i7] TAGAGCATACGGCAGAAGACGAAC
    
```

↓PCR

```

AATGATACGGCGACCACCGAGATCTACAC [i5] ACACTCTTCCCTACACGACGCTCTTCCGATCT [Insert] AGATCGGAAGAGCACACGTCTGAACTCCAGTCAC [i7] ATCTCGTATGCCGTCTTCTGCTTG
|||||
TTACTATGCCGCTGGTGGCTCTAGATGTG [i5] TGTGAGAAAGGGATGTGCTGCGAGAAGGCTAGA [Insert] TCTAGCCTTCTCGTGTGCAGACTTGAGGTCAGTG [i7] TAGAGCATACGGCAGAAGACGAAC
    
```

NEBNext Multiplex Oligos for Illumina (Index Primers Set -)

<https://international.neb.com/-/media/nebus/files/manuals/manuale7335.pdf>

NEBNext Index - Primer for Illumina

CAAGCAGAAGACGGCATAACGAGAT [index] GTGACTGGAGTTCAGACGTGTGCTCTTCCGATC-s-T

NEBNext Universal PCR Primer for Illumina

AATGATACGGCGACCACCGAGATCTACACTCTTCCCTACACGACGCTCTTCCGATC-s-T

ATGC:P5/P7

ATGC:Sequence Primer

[index]:Index Sequence

|||||:duplex

