

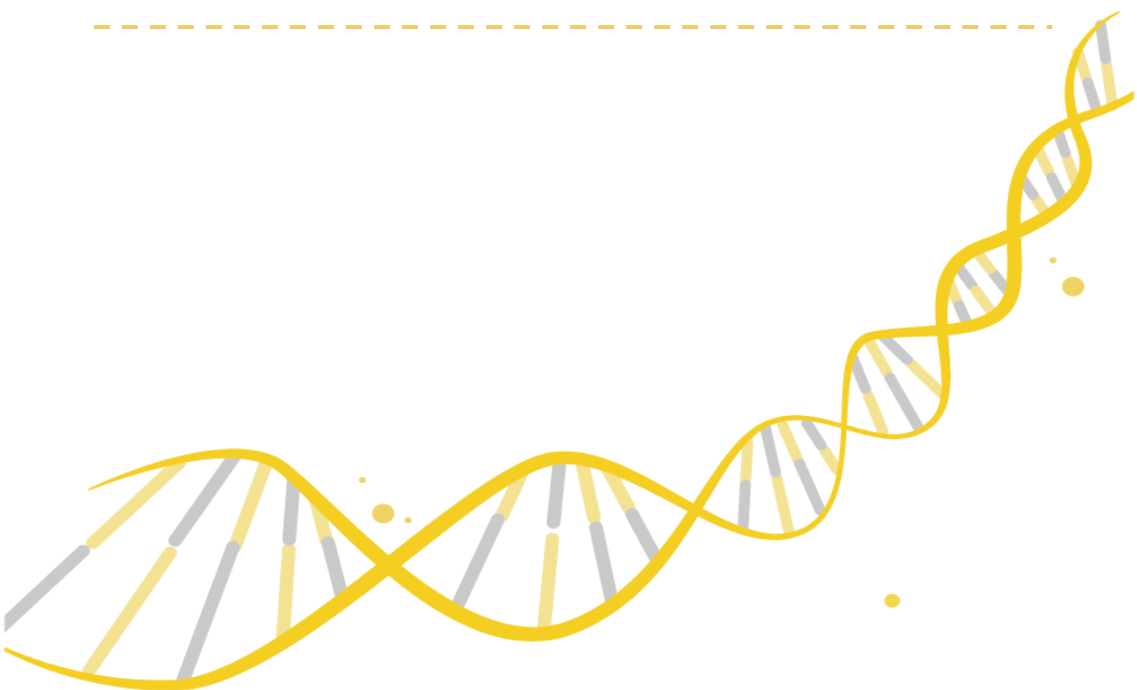


# Full DNA Adapter Kit for Illumina

Set\_C (48 indices) RK20292

Set\_D (48 indices) RK20293

MidiSet (24 indices) RK20298



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

version: N14C31v1.1

# 1. Introduction

ABclonal Full DNA Adapter Kit for Illumina is ideally suited for sample preparation for next-generation sequencing on the illumina platform. ABclonal Full DNA Adapter Kit for Illumina box contains full-length adapters. Set\_C, Set\_D and MidiSet box contains 48, 48, and 24 indices, respectively. The kit can be used to perform PCR-free DNA library preparation, in which adapters contain the complete sequence required for hybridization of the templates to the flowcell surface, and for annealing of sequencing primers.

# 2. Components

## Full DNA Adapter Kit for Illumina Set\_C (48 indices) (RK20292)

| Component     | 8 RXN | Size 1 (5 µL) | Size 2 (12.5 µL) | Size 3 (25 µL) |
|---------------|-------|---------------|------------------|----------------|
| Adapter_96-01 | 5 µL  | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-02 | 5 µL  | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-03 | 5 µL  | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-04 | 5 µL  | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-05 | 5 µL  | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-06 | 5 µL  | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-07 | 5 µL  | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-08 | 5 µL  | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-09 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-10 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-11 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-12 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-13 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-14 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-15 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-16 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-17 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-18 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-19 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-20 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-21 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-22 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-23 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-24 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-25 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-26 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-27 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-28 |       | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-29 |       | 5 µL          | 12.5 µL          | 25 µL          |

|               |      |         |       |
|---------------|------|---------|-------|
| Adapter_96-30 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-31 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-32 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-33 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-34 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-35 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-36 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-37 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-38 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-39 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-40 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-41 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-42 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-43 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-44 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-45 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-46 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-47 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-48 | 5 µL | 12.5 µL | 25 µL |

### Full DNA Adapter Kit for Illumina Set\_D (48 indices) (RK20293)

| Component     | Size 1 (5 µL) | Size 2 (12.5 µL) | Size 3 (25 µL) |
|---------------|---------------|------------------|----------------|
| Adapter_96-49 | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-50 | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-51 | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-52 | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-53 | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-54 | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-55 | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-56 | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-57 | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-58 | 5 µL          | 12.5 µL          | 25 µL          |
| Adapter_96-59 | 5 µL          | 12.5 µL          | 25 µL          |

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|               |      |         |       |
|---------------|------|---------|-------|
| Adapter_96-60 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-61 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-62 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-63 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-64 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-65 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-66 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-67 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-68 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-69 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-70 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-71 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-72 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-73 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-74 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-75 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-76 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-77 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-78 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-79 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-80 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-81 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-82 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-83 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-84 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-85 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-86 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-87 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-88 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-89 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-90 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-91 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-92 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-93 | 5 µL | 12.5 µL | 25 µL |

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|               |      |         |       |
|---------------|------|---------|-------|
| Adapter_96-94 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-95 | 5 µL | 12.5 µL | 25 µL |
| Adapter_96-96 | 5 µL | 12.5 µL | 25 µL |

### Full DNA Adapter Kit for Illumina MidiSet (24 indices) (RK20298)

| Component     | Size | Component     | Size |
|---------------|------|---------------|------|
| Adapter_96-01 | 5 µL | Adapter_96-13 | 5 µL |
| Adapter_96-02 | 5 µL | Adapter_96-14 | 5 µL |
| Adapter_96-03 | 5 µL | Adapter_96-15 | 5 µL |
| Adapter_96-04 | 5 µL | Adapter_96-16 | 5 µL |
| Adapter_96-05 | 5 µL | Adapter_96-17 | 5 µL |
| Adapter_96-06 | 5 µL | Adapter_96-18 | 5 µL |
| Adapter_96-07 | 5 µL | Adapter_96-19 | 5 µL |
| Adapter_96-08 | 5 µL | Adapter_96-20 | 5 µL |
| Adapter_96-09 | 5 µL | Adapter_96-21 | 5 µL |
| Adapter_96-10 | 5 µL | Adapter_96-22 | 5 µL |
| Adapter_96-11 | 5 µL | Adapter_96-23 | 5 µL |
| Adapter_96-12 | 5 µL | Adapter_96-24 | 5 µL |

Oligonucleotide concentration: Adapter, 15 µM each.

## 3. Storage

Stored at -20°C. The shelf life of all reagents is one year when stored properly.

## 4. Application

RK20200\_Rapid DNA Lib Prep Kit

RK20202\_Stepwise DNA Lib Prep Kit

RK20208\_Rapid Plus DNA Lib Prep Kit

RK20211\_Rapid CM DNA Lib Prep Kit

RK20212\_Rapid CE DNA Lib Prep Kit

RK20217\_Rapid Max DNA Lib Prep Kit for Illumina

RK20235\_FS DNA Lib Prep Kit for Illumina

## 5. Oligonucleotide sequence

Full adapter oligo 1 (P5):

5' -AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT-3'

Full adapter oligo 2 (P7):

5' -GATCGGAAGAGCACACGTCTGAACTCCAGTCACXXXXXXXXATCTCGTATGCCGTCTTCTGCTTG-3'

XXXXXXXX, index

### Full DNA Adapter Kit for Illumina MidiSet (24 indices) (RK20298)

| Component     | Index    | Component     | Index    |
|---------------|----------|---------------|----------|
| Adapter_96-01 | AACGTGAT | Adapter_96-13 | AACAACCA |
| Adapter_96-02 | AAACATCG | Adapter_96-14 | AACCGAGA |
| Adapter_96-03 | ATGCCTAA | Adapter_96-15 | AACGCTTA |
| Adapter_96-04 | AGTGGTCA | Adapter_96-16 | AAGACGGA |
| Adapter_96-05 | ACCACTGT | Adapter_96-17 | AAGGTACA |
| Adapter_96-06 | ACATTGGC | Adapter_96-18 | ACACAGAA |
| Adapter_96-07 | CAGATCTG | Adapter_96-19 | ACAGCAGA |
| Adapter_96-08 | CATCAAGT | Adapter_96-20 | ACCTCCAA |
| Adapter_96-09 | CGCTGATC | Adapter_96-21 | ACGCTCGA |
| Adapter_96-10 | ACAAGCTA | Adapter_96-22 | ACGTATCA |
| Adapter_96-11 | CTGTAGCC | Adapter_96-23 | ACTATGCA |
| Adapter_96-12 | AGTACAAG | Adapter_96-24 | AGAGTCAA |

## Full DNA Adapter Kit for Illumina Set\_C (48 indices) (RK20292)

| Component     | Index    | Component     | Index    |
|---------------|----------|---------------|----------|
| Adapter_96-01 | AACGTGAT | Adapter_96-25 | AGATCGCA |
| Adapter_96-02 | AAACATCG | Adapter_96-26 | AGCAGGAA |
| Adapter_96-03 | ATGCCTAA | Adapter_96-27 | AGTCACTA |
| Adapter_96-04 | AGTGGTCA | Adapter_96-28 | ATCCTGTA |
| Adapter_96-05 | ACCACTGT | Adapter_96-29 | ATTGAGGA |
| Adapter_96-06 | ACATTGGC | Adapter_96-30 | CAACCACA |
| Adapter_96-07 | CAGATCTG | Adapter_96-31 | GACTAGTA |
| Adapter_96-08 | CATCAAGT | Adapter_96-32 | CAATGGAA |
| Adapter_96-09 | CGCTGATC | Adapter_96-33 | CACTTCGA |
| Adapter_96-10 | ACAAGCTA | Adapter_96-34 | CAGCGTTA |
| Adapter_96-11 | CTGTAGCC | Adapter_96-35 | CATACCAA |
| Adapter_96-12 | AGTACAAG | Adapter_96-36 | CCAGTTCA |
| Adapter_96-13 | AACAACCA | Adapter_96-37 | CCGAAGTA |
| Adapter_96-14 | AACCGAGA | Adapter_96-38 | CCGTGAGA |
| Adapter_96-15 | AACGCTTA | Adapter_96-39 | CCTCCTGA |
| Adapter_96-16 | AAGACGGA | Adapter_96-40 | CGAACTTA |
| Adapter_96-17 | AAGGTACA | Adapter_96-41 | CGACTGGA |
| Adapter_96-18 | ACACAGAA | Adapter_96-42 | CGCATACA |
| Adapter_96-19 | ACAGCAGA | Adapter_96-43 | CTCAATGA |
| Adapter_96-20 | ACCTCCAA | Adapter_96-44 | CTGAGCCA |
| Adapter_96-21 | ACGCTCGA | Adapter_96-45 | CTGGCATA |
| Adapter_96-22 | ACGTATCA | Adapter_96-46 | GAATCTGA |
| Adapter_96-23 | ACTATGCA | Adapter_96-47 | CAAGACTA |
| Adapter_96-24 | AGAGTCAA | Adapter_96-48 | GAGCTGAA |



## Full DNA Adapter Kit for Illumina Set\_D (48 indices) (RK20293)

| Component     | Index     | Component     | Index    |
|---------------|-----------|---------------|----------|
| Adapter_96-49 | GATAGACA  | Adapter_96-73 | AATGTTGC |
| Adapter_96-50 | GCCACATA  | Adapter_96-74 | ACACGACC |
| Adapter_96-51 | GCGAGTAA  | Adapter_96-75 | ACAGATTC |
| Adapter_96-52 | GCTAACGA  | Adapter_96-76 | AGATGTAC |
| Adapter_96-53 | GCTCGGTA  | Adapter_96-77 | AGCACCTC |
| Adapter_96-54 | GGAGAAACA | Adapter_96-78 | AGCCATGC |
| Adapter_96-55 | GGTGCGAA  | Adapter_96-79 | AGGCTAAC |
| Adapter_96-56 | GTACGCAA  | Adapter_96-80 | ATAGCGAC |
| Adapter_96-57 | GTCGTAGA  | Adapter_96-81 | ATCATTCC |
| Adapter_96-58 | GTCTGTCA  | Adapter_96-82 | ATTGGCTC |
| Adapter_96-59 | GTGTTCTA  | Adapter_96-83 | CAAGGAGC |
| Adapter_96-60 | TAGGATGA  | Adapter_96-84 | CACCTTAC |
| Adapter_96-61 | TATCAGCA  | Adapter_96-85 | CCATCCTC |
| Adapter_96-62 | TCCGTCTA  | Adapter_96-86 | CCGACAAC |
| Adapter_96-63 | TCTTCACA  | Adapter_96-87 | CCTAATCC |
| Adapter_96-64 | TGAAGAGA  | Adapter_96-88 | CCTCTATC |
| Adapter_96-65 | TGGAACAA  | Adapter_96-89 | CGACACAC |
| Adapter_96-66 | TGGCTTCA  | Adapter_96-90 | CGGATTGC |
| Adapter_96-67 | TGGTGGTA  | Adapter_96-91 | CTAAGGTC |
| Adapter_96-68 | TTCACGCA  | Adapter_96-92 | GAACAGGC |
| Adapter_96-69 | AACTCACC  | Adapter_96-93 | GACAGTGC |
| Adapter_96-70 | AAGAGATC  | Adapter_96-94 | GAGTTAGC |
| Adapter_96-71 | AAGGACAC  | Adapter_96-95 | GATGAATC |
| Adapter_96-72 | AATCCGTC  | Adapter_96-96 | GCCAAGAC |

## **United States**

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