

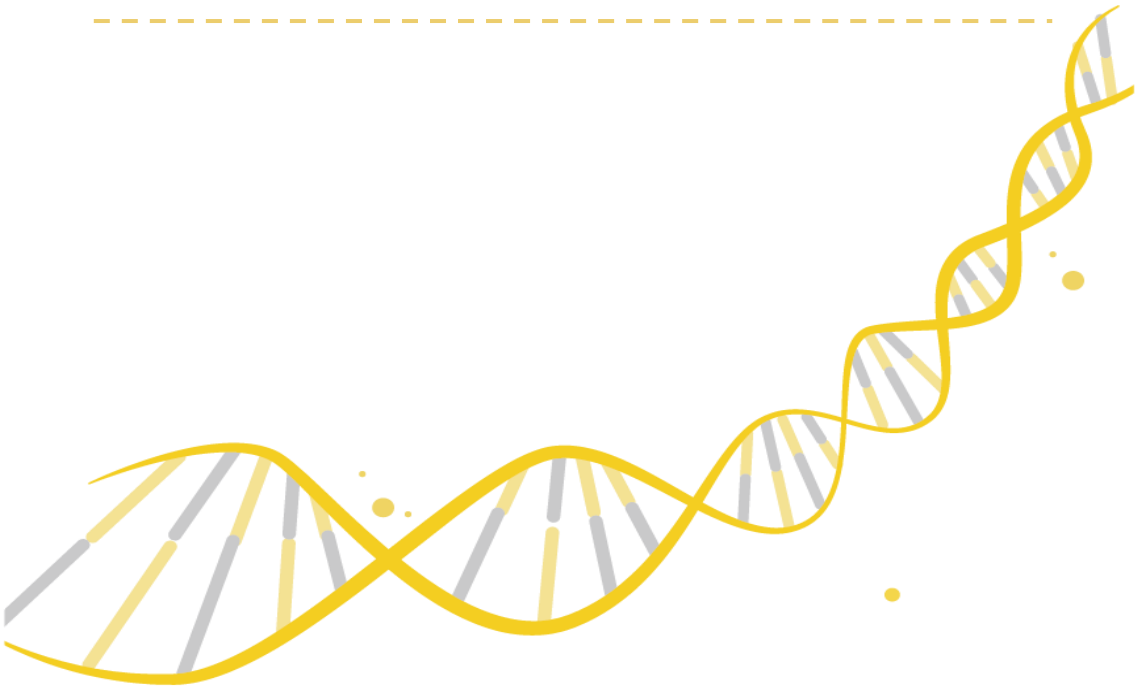


# Truncated DNA Adapter Kit for Illumina

Set\_C (48 indices) RK20294

Set\_D (48 indices) RK20295

MidiSet (24 indices) RK20297



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

version: N14C31v1.1

# 1. Introduction

ABclonal Truncated DNA Adapter Kit for Illumina is ideally suited for sample preparation for next-generation sequencing on the illumina platform. Truncated DNA adapters have higher DNA ligation efficiency, lower or no adapter-dimers than full-length Y-shape DNA adapters. ABclonal Truncated DNA Adapter Kit for Illumina box contains truncated adapter, universal PCR primer and PCR index oligos. Set\_C, Set\_D and MidiSet box contains 48, 48, and 24 indices, respectively. When using truncated DNA adapters, a minimum number of PCR amplification cycles (2-3) may be required to complete adapter sequences required for hybridization of the templates to the flowcell surface, and for annealing of sequencing primers. The kit can NOT be used to perform PCR-free DNA library preparation.

# 2. Components

## Truncated DNA Adapter Kit for Illumina Set\_C (48 indices) (RK20294)

Component	8 RXN	Size 1 (5 $\mu$ L)	Size 2 (12.5 $\mu$ L)	Size 3 (25 $\mu$ L)
Truncated Adapter	40 $\mu$ L	240 $\mu$ L	600 $\mu$ L	1.2 mL
Universal PCR Primer	40 $\mu$ L	240 $\mu$ L	600 $\mu$ L	1.2 mL
PCR Index 1	5 $\mu$ L	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 2	5 $\mu$ L	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 3	5 $\mu$ L	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 4	5 $\mu$ L	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 5	5 $\mu$ L	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 6	5 $\mu$ L	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 7	5 $\mu$ L	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 8	5 $\mu$ L	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 9		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 10		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 11		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 12		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 13		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 14		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 15		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 16		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 17		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 18		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 19		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 20		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 21		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 22		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 23		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 24		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 25		5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L

PCR Index 26	5 µL	12.5 µL	25 µL
PCR Index 27	5 µL	12.5 µL	25 µL
PCR Index 28	5 µL	12.5 µL	25 µL
PCR Index 29	5 µL	12.5 µL	25 µL
PCR Index 30	5 µL	12.5 µL	25 µL
PCR Index 31	5 µL	12.5 µL	25 µL
PCR Index 32	5 µL	12.5 µL	25 µL
PCR Index 33	5 µL	12.5 µL	25 µL
PCR Index 34	5 µL	12.5 µL	25 µL
PCR Index 35	5 µL	12.5 µL	25 µL
PCR Index 36	5 µL	12.5 µL	25 µL
PCR Index 37	5 µL	12.5 µL	25 µL
PCR Index 38	5 µL	12.5 µL	25 µL
PCR Index 39	5 µL	12.5 µL	25 µL
PCR Index 40	5 µL	12.5 µL	25 µL
PCR Index 41	5 µL	12.5 µL	25 µL
PCR Index 42	5 µL	12.5 µL	25 µL
PCR Index 43	5 µL	12.5 µL	25 µL
PCR Index 44	5 µL	12.5 µL	25 µL
PCR Index 45	5 µL	12.5 µL	25 µL
PCR Index 46	5 µL	12.5 µL	25 µL
PCR Index 47	5 µL	12.5 µL	25 µL
PCR Index 48	5 µL	12.5 µL	25 µL

### Truncated DNA Adapter Kit for Illumina Set\_D (48 indices) (RK20295)

Component	Size 1 (5 µL)	Size 2 (12.5 µL)	Size 3 (25 µL)
Truncated Adapter	240 µL	600 µL	1.2 mL
Universal PCR Primer	240 µL	600 µL	1.2 mL
PCR Index 49	5 µL	12.5 µL	25 µL
PCR Index 50	5 µL	12.5 µL	25 µL
PCR Index 51	5 µL	12.5 µL	25 µL
PCR Index 52	5 µL	12.5 µL	25 µL
PCR Index 53	5 µL	12.5 µL	25 µL

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PCR Index 54	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 55	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 56	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 57	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 58	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 59	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 60	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 61	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 62	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 63	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 64	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 65	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 66	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 67	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 68	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 69	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 70	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 71	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 72	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 73	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 74	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 75	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 76	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 77	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 78	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 79	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 80	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 81	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 82	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 83	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 84	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 85	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 86	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L
PCR Index 87	5 $\mu$ L	12.5 $\mu$ L	25 $\mu$ L

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PCR Index 88	5 µL	12.5 µL	25 µL
PCR Index 89	5 µL	12.5 µL	25 µL
PCR Index 90	5 µL	12.5 µL	25 µL
PCR Index 91	5 µL	12.5 µL	25 µL
PCR Index 92	5 µL	12.5 µL	25 µL
PCR Index 93	5 µL	12.5 µL	25 µL
PCR Index 94	5 µL	12.5 µL	25 µL
PCR Index 95	5 µL	12.5 µL	25 µL
PCR Index 96	5 µL	12.5 µL	25 µL

### Truncated DNA Adapter Kit for Illumina MidiSet (24 indices) (RK20297)

Component	Size	Component	Size
Truncated Adapter	240 µL	Universal PCR Primer	240 µL
PCR Index 1	5 µL	PCR Index 13	5 µL
PCR Index 2	5 µL	PCR Index 14	5 µL
PCR Index 3	5 µL	PCR Index 15	5 µL
PCR Index 4	5 µL	PCR Index 16	5 µL
PCR Index 5	5 µL	PCR Index 17	5 µL
PCR Index 6	5 µL	PCR Index 18	5 µL
PCR Index 7	5 µL	PCR Index 19	5 µL
PCR Index 8	5 µL	PCR Index 20	5 µL
PCR Index 9	5 µL	PCR Index 21	5 µL
PCR Index 10	5 µL	PCR Index 22	5 µL
PCR Index 11	5 µL	PCR Index 23	5 µL
PCR Index 12	5 µL	PCR Index 24	5 µL

Oligonucleotide concentration: Truncated Adapter, 15 µM; Universal PCR Primer, 20µM; PCR Index, 20µM 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

Universal PCR Primer

5' -AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT-3'

PCR Index 1 (TTACCGAC):

5' - CAAGCAGAAGACGGCATAACGAGATGTCGGTAAGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT-3'

## Truncated DNA Adapter Kit for Illumina Set\_C (48 indices) (RK20294)

Component	Index	Component	Index
Truncated Adapter	-	Universal PCR Primer	-
PCR Index 1	TTACCGAC	PCR Index 25	TTCCAGGT
PCR Index 2	AGTGACCT	PCR Index 26	TCATCTCC
PCR Index 3	TCGGATTC	PCR Index 27	GAGAGTAC
PCR Index 4	CAAGGTAC	PCR Index 28	GTCGTTAC
PCR Index 5	TCCTCATG	PCR Index 29	GGAGGAAT
PCR Index 6	GTCAGTCA	PCR Index 30	AGGAACAC
PCR Index 7	CGAATACG	PCR Index 31	CAGTGCTT
PCR Index 8	TCTAGGAG	PCR Index 32	CTTGCTAG
PCR Index 9	CGCAACTA	PCR Index 33	TGGAAGCA
PCR Index 10	CGTATCTC	PCR Index 34	AGCTAAGC
PCR Index 11	GTACACCT	PCR Index 35	GAACGGTT
PCR Index 12	CGGCATTA	PCR Index 36	GGAATGTC
PCR Index 13	TCGTCTGA	PCR Index 37	TACGGTCT
PCR Index 14	AGCCTATC	PCR Index 38	CCAGTATC
PCR Index 15	CTGTACCA	PCR Index 39	TCTACGCA
PCR Index 16	AGACCTTG	PCR Index 40	GTAACCGA
PCR Index 17	AGGATAGC	PCR Index 41	GACGTCAT
PCR Index 18	CCTTCCAT	PCR Index 42	CTTACAGC
PCR Index 19	GTCCTTGA	PCR Index 43	TCCATTGC
PCR Index 20	TGCGTAAC	PCR Index 44	AGCGAGAT
PCR Index 21	CACAGACT	PCR Index 45	CAATAGCC
PCR Index 22	TTACGTGC	PCR Index 46	AAGACACC
PCR Index 23	CCAAGGTT	PCR Index 47	CCAGTTGA
PCR Index 24	CACGCAAT	PCR Index 48	TGGTGAAG



## Truncated DNA Adapter Kit for Illumina Set\_D (48 indices) (RK20295)

Component	Index	Component	Index
Truncated Adapter	-	Universal PCR Primer	-
PCR Index 49	AAGACCGT	PCR Index 73	TAGGAGCT
PCR Index 50	TTGCGAGA	PCR Index 74	CGAATTGC
PCR Index 51	GCAATTCC	PCR Index 75	GTCCTAAG
PCR Index 52	GAATCCGT	PCR Index 76	CTTAGGAC
PCR Index 53	CCGCTTAA	PCR Index 77	TCCACGTT
PCR Index 54	TACCTGCA	PCR Index 78	CAACACAG
PCR Index 55	GTCGATTG	PCR Index 79	GCCTTAAC
PCR Index 56	TATGGCAC	PCR Index 80	GTAAGGTG
PCR Index 57	CTCGAACA	PCR Index 81	AGCTACCA
PCR Index 58	CAACTCCA	PCR Index 82	CTTCACTG
PCR Index 59	GTCATCGT	PCR Index 83	GGTTGAAC
PCR Index 60	GGACATCA	PCR Index 84	GATAGCCA
PCR Index 61	CAGGTTCA	PCR Index 85	TACTCCAG
PCR Index 62	GAACGAAG	PCR Index 86	GGAAGAGA
PCR Index 63	CTCAGAAG	PCR Index 87	GCGTTAGA
PCR Index 64	CATGAGCA	PCR Index 88	ATCTGACC
PCR Index 65	GACGAACT	PCR Index 89	AACCAGAG
PCR Index 66	AGACGCTA	PCR Index 90	GTACCACA
PCR Index 67	ATAACGCC	PCR Index 91	GGTATAGG
PCR Index 68	GAATCACC	PCR Index 92	CGAGAGAA
PCR Index 69	GGCAAGTT	PCR Index 93	CAGCATAC
PCR Index 70	GATCTTGC	PCR Index 94	CTCGACTT
PCR Index 71	CAATGCGA	PCR Index 95	CTTCGGTT
PCR Index 72	GGTGTACA	PCR Index 96	CCACAACA

## Truncated DNA Adapter Kit for Illumina MidiSet (24 indices) (RK20297)

Component	Index	Component	Index
Truncated Adapter	-	Universal PCR Primer	-
PCR Index 1	TTACCGAC	PCR Index 13	TCGTCTGA
PCR Index 2	AGTGACCT	PCR Index 14	AGCCTATC
PCR Index 3	TCGGATTC	PCR Index 15	CTGTACCA
PCR Index 4	CAAGGTAC	PCR Index 16	AGACCTTG
PCR Index 5	TCCTCATG	PCR Index 17	AGGATAGC
PCR Index 6	GTCAGTCA	PCR Index 18	CCTTCCAT
PCR Index 7	CGAATACG	PCR Index 19	GTCCTTGA
PCR Index 8	TCTAGGAG	PCR Index 20	TGCGTAAC
PCR Index 9	CGCAACTA	PCR Index 21	CACAGACT
PCR Index 10	CGTATCTC	PCR Index 22	TTACGTGC
PCR Index 11	GTACACCT	PCR Index 23	CCAAGGTT
PCR Index 12	CGGCATTA	PCR Index 24	CACGCAAT

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