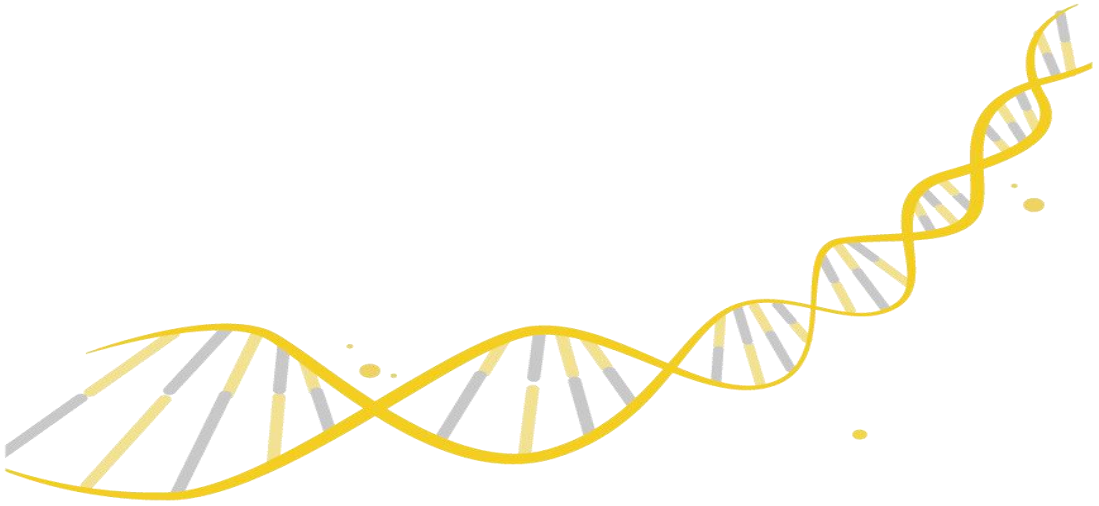




Dual DNA Adapter 96 Kit for Illumina

RK20287



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1. Introduction

Dual DNA Adapter 96 Kit for Illumina contains adapters and combinatorial dual index (CDI) primers for multiplex sample preparation for Next Generation Sequencing on Illumina sequencing platforms. The kit provides universal truncated adapters at 15 μ M as well as 8 unique i5 Primers and 12 unique i7 Primers at 20 μ M. The i5 Primers and i7 Primers can be combined to generate up to 96 different primer combinations for barcoding samples. The index length for the CDI primers is 8 nucleotides.

Tube covers for i5 Primers and i7 Primers differ in color for ease of identification. Ensure each combination is correct prior to use.

2. Components

Table 1. Components supplied with Dual DNA Adapter 96 Kit for Illumina

	Components	8 RXN	24 RXN	96 RXN	240 RXN
●	Truncated Adapter	40 μ L	120 μ L	480 μ L	1200 μ L
●	i501-502 Primer	10 μ L each	15 μ L each	30 μ L each	75 μ L each
●	i503-504 Primer	-	15 μ L each	30 μ L each	75 μ L each
●	i505-508 Primer	-	-	30 μ L each	75 μ L each
●	i701-704 Primer	5 μ L each	10 μ L each	20 μ L each	50 μ L each
●	i705-706 Primer	-	10 μ L each	20 μ L each	50 μ L each
●	i707-712 Primer	-	-	20 μ L each	50 μ L each

Concentration: Truncated Adapter, 15 μ M; Index Primer (i5XX or i7XX), 20 μ M each.

3. Storage

All components should be stored at -20°C. The shelf life of each reagent is one year when stored properly.

4. Applications

DNA or RNA library preparation for Illumina platforms in combination with any of the following kits:

- Rapid DNA Lib Prep kit;
- Rapid Plus DNA Lib Prep kit;
- Rapid CE DNA Lib Prep Kit for Illumina V2;
- Rapid Plus DNA Lib Prep Kit for Illumina V2;
- ABclonal Whole RNA-seq Lib Prep kit;
- mRNA-seq Lib Prep Kit

5. Directions for use

1. Thaw the Truncated Adapter and i5/i7 Primers at room temperature. Briefly vortex to mix, then centrifuge each for 30 seconds to collect the reagent at the bottom of the tubes.
2. Use best-practice laboratory reagent handling strategies to prevent cross-contamination of reagents during handling and sample preparation.
3. Perform TA-ligation using the included Truncated Adapter using the protocol outlined by the chosen library prep kit.
4. Perform indexing PCR using i5 Primers and i7 Primers using the protocol outlined by the chosen library prep kit.

5. Optimal working concentration of Truncated Adapter is dependent upon the library preparation protocol. If necessary, Truncated Adapters can be diluted with TE buffer (not provided) immediately prior to use. Do not mix adapter with ligation enzymes prior to use.

6. Sequences

To view the sequences for each i5/i7 Primer, refer to Table 2: Index Identification.

i5 index primer:

5'-AATGATACGGCGACCAACGAGATCTACAC [i5index] ACACTCTTCCCTACACG
ACGCTCTTCCGATCT-3'

i7 index primer:

5'-CAAGCAGAAGACGGCATAACGAGAT [i7index] GTGACTGGAGTTCAGACGTGTG
CTCTTCCGATCT-3'

United States

www.abclonal.com

Address: 500 W. Cummings Park Dr, Woburn, MA 01801, United States

Phone: 888.754.5670, +1 857.259.4898 (Int'l)

Email: service@abclonal.com