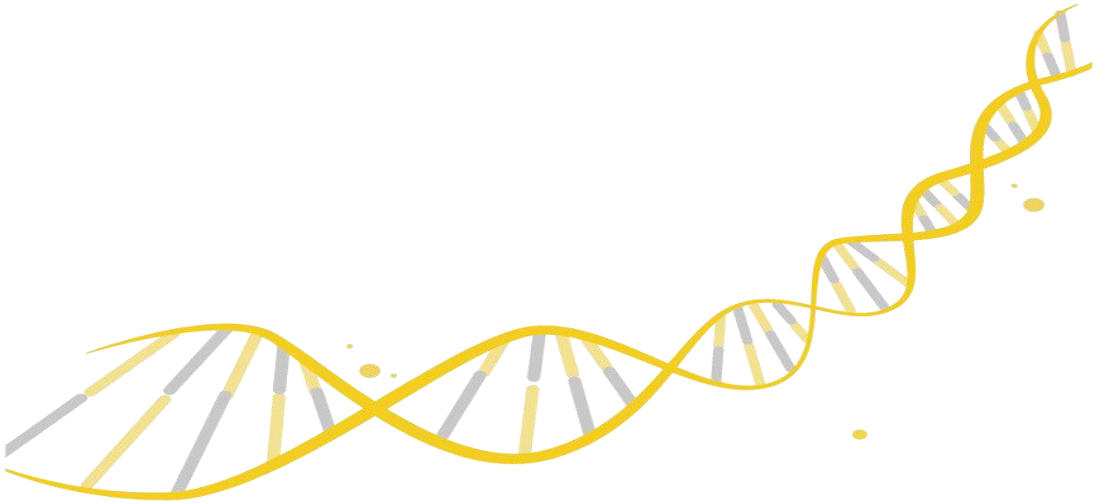


Dual DNA Adapter 96 Kit Extended for Illumina

RK20296



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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 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 Extended for Illumina

	Components	96 RXN
	Truncated Adapter	480 μ L
	i509-i516 Primer	30 μ L each
	i713-i724 Primer	20 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 during handling and sample preparation.
3. Perform TA-ligation using the included Truncated Adapter using the protocol outlined by the library prep kit.
4. Perform indexing PCR using i5 Primers and i7 Primers using the protocol

outlined by the 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'-AATGATACGGCGACCACCGAGATCTACAC [i5index] ACACTCTTTCCCTACACG
ACGCTCTTCCGATCT-3'

i7 index primer:

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

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