

Unique Dual Index for Illumina

RK21622 MiniSet (8 indices)

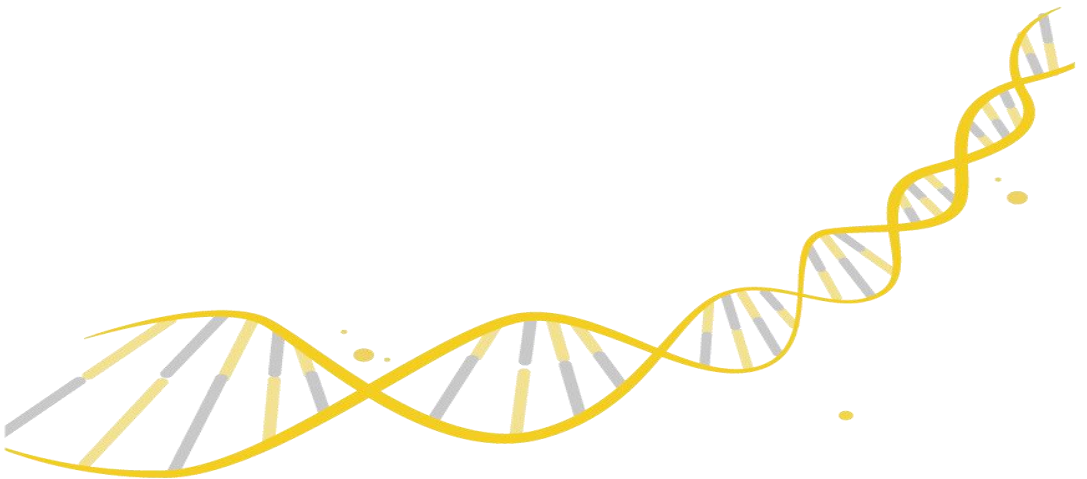
RK21623 MidiSet (24 indices)

RK21624 Set_A (48 indices)

RK21625 Set_B (48 indices)

RK21626 Set_C (48 indices)

RK21627 Set_D (48 indices)



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1. Introduction

ABclonal's Unique Dual Index for Illumina products contain universal truncated adapters and Unique Dual Index (UDI) primers for sample preparation for Next Generation Sequencing on Illumina sequencing. The MiniSet (CAT.NO. RK21622) provides 8 unique primer pairs (UDI Primers 1-8); the MidiSet (CAT.NO. RK21623) provides 24 unique primer pairs (UDI Primers 1-24); Set_A (CAT.NO. RK21624) provides 48 unique primer pairs (UDI Primers 1-48); Set_B (CAT.NO. RK21625) provides 48 unique primer pairs (UDI Primers 49-96); Set_C (CAT.NO. RK21626) provides 48 unique primer pairs (UDI Primers 97-144); Set_D (CAT.NO. RK21627) provides 48 unique primer pairs (UDI Primers 145-192). All sets include 15 μ M truncated adapters along with the listed primers. The sample index length is 8 nucleotides.

2. Components

Table 1. Components supplied with Unique Dual Index for Illumina

Components	RK21622	RK21623	RK21624	RK21625	RK21626	RK21627
 Truncated Adapter	40 μ L	120 μ L	240 μ L	240 μ L	240 μ L	240 μ L
 UDI Primers 1-8	5 μ L each	5 μ L each	5 μ L each	-	-	-
 UDI Primers 9-24	-	5 μ L each	5 μ L each	-	-	-
 UDI Primers 25-48	-	-	5 μ L each	-	-	-
 UDI Primers 49-96	-	-	-	5 μ L each	-	-
 UDI Primers 97-144	-	-	-	-	5 μ L each	-
 UDI Primers 145-192	-	-	-	-	-	5 μ L 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 UDI 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 UDI 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. Sequence

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

i5 Primer:

5'-AATGATACGGCGACCACCGAGATCTACAC [i5index] ACACTCTTCCCTACACGA
CGCTCTTCCGATCT-3'

i7 Primer:

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

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