

# TruePrep Index Kit V4 for Illumina®

Catalog # TD204 / TD205 / TD206 / TD207



Version 7.1

Vazyme biotech co., ltd.

## Introduction

TruePrep Index Kit V4 for Illumina® is specially designed for TruePrep DNA Library Prep Kit V2 for Illumina® (Vazyme, #TD501, #TD502, #TD503). This kit contains 1 kind of N101 (i5) and 96 kinds of N9XX (i7), providing 96 kinds of different single-indexed adapter combinations.

## Contents of Kit

Components	TD204	TD205	TD206	TD207	Index Name
N101	960 µl	960 µl	960 µl	960 µl	Index 2 (i5)
N901 - N924 (24 kinds)	40 µl	----	----	----	Index 1 (i7)
N925 - N948 (24 kinds)	----	40 µl	----	----	Index 1 (i7)
N949 - N972 (24 kinds)	----	----	40 µl	----	Index 1 (i7)
N973 - N996 (24 kinds)	----	----	----	40 µl	Index 1 (i7)

**Note:** 8 rxn for each DNA Adapter (5 µl / library), 192 rxn for the entire kit.

## Storage

Store at -20°C.

## Application

Special for TruePrep DNA Library Prep Kit V2 for Illumina® (Vazyme, #TD501, #TD502, #TD503).

## Quality Control

**16-Hour Incubation:** A 50 µl reaction system containing 5 µl of Oligos and 1 µg of Hind III-λ DNA incubated at 37°C for 16 hours resulted in no band degraded detected by agarose gel electrophoresis. A 50 µl reaction system containing 5 µl of Oligos and 1 µg of T3 DNA incubated at 37°C for 16 hours resulted in no band degraded detected by agarose gel electrophoresis.

**Endonuclease Activity:** A 50 µl reaction system containing 5 µl of Oligos and 1 µg of φX174RF I DNA incubated at 37°C for 4 hours resulted in < 10% conversion to RF II analyzed by agarose gel electrophoresis.

## Sequence

The structure of libraries prepared with TruePrep Index Kit V4 for Illumina® are as follows:

5' - **Adapter N101 (i5)** - Insert DNA Sequence - **Adapter N9XX (i7)** - 3'

Each kit contains 1 kind of Universal Adapter (N101) and 24 kinds of Adapter N9XX. The sequences of DNA Adapters are as follows:

Name	Sequence
N101	5'-AATGATACGGCGACCACCGAGATCTACAC[ <b>TAGATCGC</b> ]TCGTCCGGCAGCGTC-3'
N9XX	5'-CAAGCAGAAGACGGCATACGAGAT[ <b>IIIIIIII</b> ]GTCTCGTGGGCTCGG-3'

IIIIIIII indicates the index sequences (8 bp). Please input the related Index sequences of DNA Adapters to the Sample Sheet before sequencing.



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**For research use only, not for use in diagnostic procedures.**

The sequences of DNA Adapters are as follows:

N901-924	Index	N925-948	Index	N949-972	Index	N973-996	Index
N901	AACGTGAT	N925	AGATCGCA	N949	GATAGACA	N973	AATGTTGC
N902	AAACATCG	N926	AGCAGGAA	N950	GCCACATA	N974	ACACGACC
N903	ATGCCTAA	N927	AGTCACTA	N951	GCGAGTAA	N975	ACAGATTC
N904	AGTGGTCA	N928	ATCCTGTA	N952	GCTAACGA	N976	AGATGTAC
N905	ACCACTGT	N929	ATTGAGGA	N953	GCTCGGTA	N977	AGCACCTC
N906	ACATTGGC	N930	CAACCACA	N954	GGAGAACA	N978	AGCCATGC
N907	CAGATCTG	N931	GACTAGTA	N955	GGTGCGAA	N979	AGGCTAAC
N908	CATCAAGT	N932	CAATGGAA	N956	GTACGCAA	N980	ATAGCGAC
N909	CGCTGATC	N933	CACTTCGA	N957	GTCGTAGA	N981	ATCATTCC
N910	ACAAGCTA	N934	CAGCGTTA	N958	GTCTGTCA	N982	ATTGGCTC
N911	CTGTAGCC	N935	CATACCAA	N959	GTGTTCTA	N983	CAAGGAGC
N912	AGTACAAG	N936	CCAGTTCA	N960	TAGGATGA	N984	CACCTTAC
N913	AACAACCA	N937	CCGAAGTA	N961	TATCAGCA	N985	CCATCCTC
N914	AACCGAGA	N938	CCGTGAGA	N962	TCCGTCTA	N986	CCGACAAC
N915	AACGCTTA	N939	CCTCCTGA	N963	TCTCACA	N987	CCTAATCC
N916	AAGACGGA	N940	CGAACTTA	N964	TGAAGAGA	N988	CCTCTATC
N917	AAGGTACA	N941	CGACTGGA	N965	TGGAACAA	N989	CGACACAC
N918	ACACAGAA	N942	CGCATACA	N966	TGGCTTCA	N990	CGGATTGC
N919	ACAGCAGA	N943	CTCAATGA	N967	TGGTGGTA	N991	CTAAGGTC
N920	ACCTCCAA	N944	CTGAGCCA	N968	TTCACGCA	N992	GAACAGGC
N921	ACGCTCGA	N945	CTGGCATA	N969	AACTCACC	N993	GACAGTGC
N922	ACGTATCA	N946	GAATCTGA	N970	AAGAGATC	N994	GAGTTAGC
N923	ACTATGCA	N947	CAAGACTA	N971	AAGGACAC	N995	GATGAATC
N924	AGAGTCAA	N948	GAGCTGAA	N972	AATCCGTC	N996	GCCAAGAC

