

# VAHTS Maxi Unique Dual Index Primers Set 2 for Illumina (Plate)

NB34402

Version 24.1



## Product Description

VAHTS Maxi Unique Dual Index Primers Set 2 for Illumina (Plate) is a specialized kit for DNA library preparation based on the Illumina sequencers. The VAHTS Universal Adapter for Illumina in the kit is the stubby adapter that can be compatible with various library preparation kits based on the T-A ligation. VAHTS Unique Dual Index Primer for Illumina contains specifically paired Unique Dual Index (UDI). After library preparation, it can achieve two distinct and unrelated index sequences double verification, minimizing index hopping and index misassignment, ensuring that the reads in downstream analysis are nearest to the truth.

This kit includes Universal Adapters and 96 different VAHTS Unique Dual Index Primer for Illumina. All the reagents provided in the kit have undergone rigorous quality control and functional testing to ensure the optimal stability and repeatability of library preparation.

## Components

Components	NB34402-01 (96 rxns)
VAHTS Unique Dual Index Primer for Illumina	5 µl each
VAHTS Universal Adapter for Illumina	5 µl each

▲ The amount of DNA Adapter used for a DNA library depends on the amount of input DNA. For details, please refer to the Appendix.

▲ The concentration of VAHTS Universal Adapter for Illumina is 15 µM; the concentration of VAHTS Unique Dual Index Primer for Illumina is 12 µM.

### NB34402 Components

	1	2	3	4	5	6	7	8	9	10	11	12
A	097	105	113	121	129	390	145	153	161	169	177	185
B	098	106	114	388	130	138	146	154	162	170	178	186
C	099	107	115	123	131	139	147	155	163	171	179	187
D	100	108	116	124	132	391	148	156	164	172	180	188
E	101	109	387	125	133	141	149	157	165	173	181	189
F	386	110	118	126	134	392	150	158	166	174	182	190
G	103	111	119	127	389	143	151	159	167	175	393	191
H	104	112	120	128	136	144	152	160	168	176	184	192

▲ The 12 Indexes marked with the same color in the table can ensure base balance and are recommended to be used in groups.

## Storage

Store at -30 ~ -15°C and ship at ≤0°C.

## Applications

VAHTS Maxi Unique Dual Index Primers Set 2 for Illumina (Plate) (Vazyme #NB34402) is a specialized kit for Vazyme ND/NR series library preparation kits, compatible with various sample types: genomic DNA, cfDNA, FFPE DNA, etc. It is suitable for multiple dual-index DNA libraries for Illumina sequencers, and can effectively avoid cross-contamination between samples.

## Notes

1. The amount of DNA Adapter used depends on the amount of input DNA. For details, please refer to the Appendix.
2. Don't premix Adapter, Ligation Buffer and Ligase to prevent adapter self-ligation.
3. Don't store the adapters above room temperature (15 ~ 25°C) which may result in decreasing ligation efficiency.

## Appendix

Table 1. Recommended the Dilution Ratio and Volume of Adapters for Vazyme #ND610 (Mechanical Fragmentation)

Input DNA	Adapter dilution ratio	Volume (μl)
0.1 ng	1:60	5
1 ng	1:10	5
10 ng	1:2	5
50 ng	Undiluted	5
≥100 ng	Undiluted	5

Table 2. Recommended the Dilution Ratio and Volume of Adapters for Vazyme #ND627 (Enzymatic Fragmentation)

Input DNA	Adapter dilution ratio	Volume (μl)
1 ng	1:10	5
10 ng	1:2	5
50 ng	Undiluted	5
≥100 ng	Undiluted	5

Table 3. Recommended the Dilution Ratio and Volume of Adapters for Vazyme #NR605 (RNA Library Preparation)

Input RNA	Adapter dilution ratio	Volume (μl)
10 ng	1:10	0.5
100 ng	1:10	1
1 μg	1:10	3.5

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