

# VAHTS Maxi Unique Dual Index Primers Set 4 for Illumina

N34404

Version 24.2



## Product Description

VAHTS Maxi Unique Dual Index Primers Set 4 for Illumina 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	N34404-01 (384 rxns)
VAHTS Unique Dual Index Primer for Illumina	20 µl each
VAHTS Universal Adapter for Illumina	4 × 480 µl

▲ 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.

### N34404 Components

	1	2	3	4	5	6	7	8	9	10
1	289	299	309	319	413	417	349	359	369	379
2	290	300	310	320	330	418	350	360	370	380
3	291	301	311	321	331	341	351	361	371	381
4	292	302	312	322	332	342	352	362	372	382
5	293	303	313	323	414	419	353	363	373	383
6	411	304	314	324	334	420	354	364	374	384
7	295	305	315	325	335	421	355	365	375	Ada
8	296	306	316	412	336	422	356	366	376	Ada
9	297	307	317	327	415	423	357	367	377	Ada
10	298	308	318	328	416	424	358	368	378	Ada

▲ 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 4 for Illumina (Vazyme #N34404) 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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