

VAHTS Maxi Unique Dual Index Primers Set 4 for Illumina (Plate)

NB34404

Version 24.1



Product Description

VAHTS Maxi Unique Dual Index Primers Set 4 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	NB34404-01 (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.

NB34404 Components

	1	2	3	4	5	6	7	8	9	10	11	12
A	289	297	305	313	321	413	415	421	353	361	369	377
B	290	298	306	314	322	330	416	422	354	362	370	378
C	291	299	307	315	323	331	417	423	355	363	371	379
D	292	300	308	316	324	332	418	424	356	364	372	380
E	293	301	309	317	325	414	341	349	357	365	373	381
F	411	302	310	318	412	334	342	350	358	366	374	382
G	295	303	311	319	327	335	419	351	359	367	375	383
H	296	304	312	320	328	336	420	352	360	368	376	384

▲ 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 (Plate) (Vazyme #NB34404) 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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