

VAHTS Maxi Unique Dual Index Primers Set 3 for Illumina (Plate)

NB34403

Version 24.1



Product Description

VAHTS Maxi Unique Dual Index Primers Set 3 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	NB34403-01 (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.

NB34403 Components

	1	2	3	4	5	6	7	8	9	10	11	12
A	193	201	397	217	225	233	241	249	257	403	273	281
B	194	202	398	218	226	234	242	250	258	266	409	410
C	195	203	399	219	227	235	243	251	259	404	275	283
D	196	204	212	220	228	236	401	252	260	405	276	284
E	197	394	213	221	229	237	245	253	261	269	277	285
F	198	395	214	222	230	238	246	254	262	406	278	286
G	199	207	400	223	231	239	247	255	263	407	279	287
H	200	396	216	224	232	240	248	256	402	408	280	288

▲ 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 3 for Illumina (Plate) (Vazyme #NB34403) 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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