

VAHTS Maxi Unique Dual Index Primers Set 3 for Illumina

N34403

Version 24.2



Product Description

VAHTS Maxi Unique Dual Index Primers Set 3 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	N34403-01 (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.

N34403 Components

	1	2	3	4	5	6	7	8	9	10
1	193	203	213	223	233	243	253	263	273	283
2	194	204	214	224	234	401	254	402	409	284
3	195	394	400	225	235	245	255	403	275	285
4	196	395	216	226	236	246	256	266	276	286
5	197	207	217	227	237	247	257	404	277	287
6	198	396	218	228	238	248	258	405	278	288
7	199	397	219	229	239	249	259	269	279	Ada
8	200	398	220	230	240	250	260	406	280	Ada
9	201	399	221	231	241	251	261	407	281	Ada
10	202	212	222	232	242	252	262	408	410	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 3 for Illumina (Vazyme #N34403) 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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