

VAHTS Maxi Unique Dual Barcode Primers Set 4 for MGI (Plate)

NMB34404

Version 24.1



Product Description

VAHTS Maxi Unique Dual Barcode Primers Set 4 for MGI (Plate) is a specialized kit for DNA library preparation based on the MGI sequencers. The VAHTS Universal Adapter for MGI 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 Barcode Primer for MGI contains specifically paired Unique Dual Barcode (UDB). 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 Barcode Primer for MGI. 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	NMB34404-01 (96 rxns)
VAHTS Unique Dual Barcode Primer for MGI	5 µl each
VAHTS Universal Adapter for MGI	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 MGI is 15 µM; the concentration of VAHTS Unique Dual Barcode Primer for MGI is 12 µM.

NMB34404 Components

	1	2	3	4	5	6	7	8	9	10	11	12
A	289	297	305	313	321	329	337	345	353	361	369	377
B	395	298	306	314	322	330	338	346	354	362	370	378
C	291	299	307	315	323	331	339	347	355	363	371	379
D	292	300	308	316	324	332	340	348	356	364	372	380
E	293	396	309	317	325	333	341	349	357	365	373	381
F	294	302	310	318	326	334	342	350	358	366	374	399
G	295	303	311	319	327	335	343	351	359	367	375	383
H	296	304	397	320	328	336	344	398	360	368	376	384

▲ The 8 Barcodes 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 Barcode Primers Set 4 for MGI (Plate) (Vazyme #NMB34404) is a specialized kit for Vazyme NDM/NRM 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 MGI 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 #NDM607 (Mechanical Fragmentation)

Input DNA	Adapter dilution ratio	Volume (μl)
1 ng	1:40	5
10 ng	1:10	5
50 ng	1:2	5
100 ng	Undiluted	5
≥500 ng	Undiluted	5

Table 2. Recommended the Dilution Ratio and Volume of Adapters for Vazyme #NDM627 (Enzymatic Fragmentation)

Input DNA	Adapter dilution ratio	Volume (μl)
1 ng	1:60	5
10 ng	1:10	5
50 ng	1:2	5
100 ng	Undiluted	5
≥500 ng	Undiluted	5

Table 3. Recommended the Dilution Ratio and Volume of Adapters for Vazyme #NRM605 (RNA Library Preparation)

Input RNA	Adapter dilution ratio	Volume (μl)
10 ng	1:10	1
100 ng	1:10	3
1 μg	1:10	5

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