

VAHTS Maxi Unique Dual Barcode Primers Set 4 for MGI

NM34404

Version 24.1



Product Description

VAHTS Maxi Unique Dual Barcode Primers Set 4 for MGI 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	NM34404-01 (384 rxns)
VAHTS Unique Dual Barcode Primer for MGI	20 µl each
VAHTS Universal Adapter for MGI	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 MGI is 15 µM; the concentration of VAHTS Unique Dual Barcode Primer for MGI is 12 µM.

NM34404 Components

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

▲ 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 (Vazyme #NM34404) 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

For Research Use Only. Not for use in diagnostic procedures.