

VAHTS RNA Adapters Set 1/Set 2 for Illumina®

Catalog # N803 / N804



Version 5.1

Vazyme biotech co., ltd.

Introduction

VAHTS RNA Adapters Set 1/2 for Illumina® are two special kits designed for RNA library preparation for Illumina platforms. The set1 (Cat.No. #N803) contains 12 kinds of indexed adapters (RNA Adapter 1 - 12). The set2 (Cat.No. #N804) contains another 12 kinds of indexed adapters (RNA Adapter 13 - 27).

Contents of Kit

| Component | N803-01 | N803-02 | Component | N804-01 | N804-02 |
|----------------|---------|---------|----------------|---------|---------|
| RNA Adapter 1 | 10 µl | 40 µl | RNA Adapter 13 | 10 µl | 40 µl |
| RNA Adapter 2 | 10 µl | 40 µl | RNA Adapter 14 | 10 µl | 40 µl |
| RNA Adapter 3 | 10 µl | 40 µl | RNA Adapter 15 | 10 µl | 40 µl |
| RNA Adapter 4 | 10 µl | 40 µl | RNA Adapter 16 | 10 µl | 40 µl |
| RNA Adapter 5 | 10 µl | 40 µl | RNA Adapter 18 | 10 µl | 40 µl |
| RNA Adapter 6 | 10 µl | 40 µl | RNA Adapter 19 | 10 µl | 40 µl |
| RNA Adapter 7 | 10 µl | 40 µl | RNA Adapter 20 | 10 µl | 40 µl |
| RNA Adapter 8 | 10 µl | 40 µl | RNA Adapter 21 | 10 µl | 40 µl |
| RNA Adapter 9 | 10 µl | 40 µl | RNA Adapter 22 | 10 µl | 40 µl |
| RNA Adapter 10 | 10 µl | 40 µl | RNA Adapter 23 | 10 µl | 40 µl |
| RNA Adapter 11 | 10 µl | 40 µl | RNA Adapter 25 | 10 µl | 40 µl |
| RNA Adapter 12 | 10 µl | 40 µl | RNA Adapter 27 | 10 µl | 40 µl |

* N803-01 & N804-01: 4 rxn for each RNA Adapter (2.5 µl / library), 48 rxn for the entire kit.

* N803-02 & N804-02: 16 rxn for each RNA Adapter (2.5 µl / library), 192 rxn for the entire kit.

Storage

All the components can be stored at -20°C for one year.

Application

Special for RNA library preparation for Illumina platforms with VAHTS mRNA-seq V2 Library Prep Kit (Vazyme, Cat.No. #NR601), VAHTS Stranded mRNA-seq Library Prep Kit (Vazyme, Cat.No. #NR602), and VAHTS Total RNA-seq (H/M/R) Library Prep Kit (Vazyme, Cat.No. #NR603),

Quality Control

16-Hour Incubation: A 50 µl reaction system containing 5 µl of RNA Adapter and 1 µg of Hind III-λDNA incubated at 37°C for 16 hours resulted in no band degraded detected by agarose gel electrophoresis. A 50 µl reaction system containing 5 µl of RNA Adapter and 1 µg of T3 DNA incubated at 37°C for 16 hours resulted in no band degraded detected by agarose gel electrophoresis.

Endonuclease Activity: A 50 µl reaction system containing 5 µl of RNA Adapter and 1 µg of φX174RF I DNA incubated at 37°C for 4 hours resulted in < 10% conversion to RF II analyzed by agarose gel electrophoresis.

Sequence

The structure of libraries prepared with VAHTS RNA Adapter set 1/set 2 for Illumina® are as follows:

5' - **Universal Adapter** - Insert DNA Sequence - **RNA Adapter X** - 3'



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For research use only, not for use in diagnostic procedures.

VAHTS Index Primer for Illumina®

Both the Universal Adapter and the Index are contained in each RNA Adapter. The related sequences are as follows:

| Name | Sequence | Index Sequence* |
|-------------------|--|-----------------|
| Universal Adapter | 5'-AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT-3' | |
| RNA Adapter 1 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC ATCACG ATCTCGTATGCCGTCTTCTGCTTG-3' | ATCACG |
| RNA Adapter 2 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC CGATGT ATCTCGTATGCCGTCTTCTGCTTG-3' | CGATGT |
| RNA Adapter 3 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC TTAGGC ATCTCGTATGCCGTCTTCTGCTTG-3' | TTAGGC |
| RNA Adapter 4 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC TGACCA ATCTCGTATGCCGTCTTCTGCTTG-3' | TGACCA |
| RNA Adapter 5 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC ACAGTG ATCTCGTATGCCGTCTTCTGCTTG-3' | ACAGTG |
| RNA Adapter 6 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC GCCAAT ATCTCGTATGCCGTCTTCTGCTTG-3' | GCCAAT |
| RNA Adapter 7 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC CAGATC ATCTCGTATGCCGTCTTCTGCTTG-3' | CAGATC |
| RNA Adapter 8 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC ACTTGA ATCTCGTATGCCGTCTTCTGCTTG-3' | ACTTGA |
| RNA Adapter 9 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC GATCAG ATCTCGTATGCCGTCTTCTGCTTG-3' | GATCAG |
| RNA Adapter 10 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC TAGCTT ATCTCGTATGCCGTCTTCTGCTTG-3' | TAGCTT |
| RNA Adapter 11 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC GGCTAC ATCTCGTATGCCGTCTTCTGCTTG-3' | GGCTAC |
| RNA Adapter 12 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC CTTGTA ATCTCGTATGCCGTCTTCTGCTTG-3' | CTTGTA |
| RNA Adapter 13 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC AGTCAA CAATCTCGTATGCCGTCTTCTGCTTG-3' | AGTCAA |
| RNA Adapter 14 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC AGTTCC GATCTCGTATGCCGTCTTCTGCTTG-3' | AGTTCC |
| RNA Adapter 15 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC ATGTCA GAATCTCGTATGCCGTCTTCTGCTTG-3' | ATGTCA |
| RNA Adapter 16 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC CCGTCC CGATCTCGTATGCCGTCTTCTGCTTG-3' | CCGTCC |
| RNA Adapter 18 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC GTCCGC ACATCTCGTATGCCGTCTTCTGCTTG-3' | GTCCGC |
| RNA Adapter 19 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC GTGAAA CGATCTCGTATGCCGTCTTCTGCTTG-3' | GTGAAA |
| RNA Adapter 20 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC GTGGCC TTATCTCGTATGCCGTCTTCTGCTTG-3' | GTGGCC |
| RNA Adapter 21 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC GTTTCG GAATCTCGTATGCCGTCTTCTGCTTG-3' | GTTTCG |
| RNA Adapter 22 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC CGTACG AATCTCGTATGCCGTCTTCTGCTTG-3' | CGTACG |
| RNA Adapter 23 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC GAGTGG ATATCTCGTATGCCGTCTTCTGCTTG-3' | GAGTGG |
| RNA Adapter 25 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC ACTGAT ATATCTCGTATGCCGTCTTCTGCTTG-3' | ACTGAT |
| RNA Adapter 27 | 5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC ATTCCT TTATCTCGTATGCCGTCTTCTGCTTG-3' | ATTCCT |

* The index sequences (6 bp) are also the index sequences during sequencing, which can be input directly to the Sample Sheet.

