

## Product Description

VAHTS AmpSeq Adapters for Illumina is a specialized kit based on AmpSeq technology for library preparation of the Illumina high-throughput sequencing platform. Matched with AmpSeq library preparation kits, this product can prepare multi-sample targeted sequencing DNA libraries suitable for the Illumina platform. The kit NA111-01 contains a total of 12 different indexed adapters from Adapter 1 to Adapter 12; the kit NA111-02 contains a total of 12 different indexed adapters from Adapter 13 to Adapter 24; the kit NA111-03 contains a total of 24 different indexed adapters from Adapter 25 to Adapter 48; the kit NA111-04 contains a total of 24 different indexed adapters from Adapter 49 to Adapter 72; and the kit NA111-05 contains a total of 24 different indexed adapters from Adapter 73 to Adapter 96. All the adapters provided in the kit have undergone rigorous quality control and functional verification to ensure the optimal stability and repeatability of library preparation.

## Components

Components	NA111-01 (12 × 10 rxns)	NA111-02 (12 × 10 rxns)	NA111-03 (24 × 10 rxns)	NA111-04 (24 × 10 rxns)	NA111-05 (24 × 10 rxns)
VAHTS AmpSeq Adapters 1 - 12 for Illumina	10 µl each	----	----	----	----
VAHTS AmpSeq Adapters 13 - 24 for Illumina	----	10 µl each	----	----	----
VAHTS AmpSeq Adapters 25 - 48 for Illumina	----	----	10 µl each	----	----
VAHTS AmpSeq Adapters 49 - 72 for Illumina	----	----	----	10 µl each	----
VAHTS AmpSeq Adapters 73 - 96 for Illumina	----	----	----	----	10 µl each

## Storage

Store at -30 ~ -15°C and transport at ≤0°C.

## Applications

Matched with VAHTS AmpSeq Library Prep Kit V2 (Vazyme #NA201), this product is suitable for the Illumina sequencing platform.

## Notes

1. Centrifuge to collect the reagent at the bottom of the tubes. Otherwise, it may result in poor library quality and waste of reagents.
2. To avoid cross-contamination, please do not open the lids of different adapters at the same time.
3. Please do not load the adapters and ligase at the same time, or it may result in adapter self-ligation.
4. Please do not keep this product at above room temperature, or it may cause the melting of adapters and affect the ligation efficiency.

## Sequence Information

Each AmpSeq Adapter provided in the kit contains Universal Adapter, and an Index to differentiate samples during high-throughput sequencing. The sequence of AmpSeq Adapter is as follows:

Name	Sequence
Universal Adapter	5'-AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT-3'
Adapter X	5'-GATCGGAAGAGCACACGTCTGAACTCCAGTCAC <u>XXXXXXXX</u> ATCTCGTATGCCGTCTTCTGCTTG-3'

▲ The underlined XXXXXXXX indicates barcode sequence.

The index sequence corresponding to each Adapter is as follows:

NA111-01		NA111-02		NA111-03			
Components	Index sequence	Components	Index sequence	Components	Index sequence	Components	Index sequence
Adapter 1	AACGTGAT	Adapter 13	AACAACCA	Adapter 25	AGATCGCA	Adapter 37	CCGAAGTA
Adapter 2	AAACATCG	Adapter 14	AACCGAGA	Adapter 26	AGCAGGAA	Adapter 38	CCGTGAGA
Adapter 3	ATGCCTAA	Adapter 15	AACGCTTA	Adapter 27	AGTCACTA	Adapter 39	CCTCCTGA
Adapter 4	AGTGGTCA	Adapter 16	AAGACGGA	Adapter 28	ATCCTGTA	Adapter 40	CGAACTTA
Adapter 5	ACCACTGT	Adapter 17	AAGGTACA	Adapter 29	ATTGAGGA	Adapter 41	CGACTGGA
Adapter 6	ACATTGGC	Adapter 18	ACACAGAA	Adapter 30	CAACCACA	Adapter 42	CGCATACA
Adapter 7	CAGATCTG	Adapter 19	ACAGCAGA	Adapter 31	GACTAGTA	Adapter 43	CTCAATGA
Adapter 8	CATCAAGT	Adapter 20	ACCTCCAA	Adapter 32	CAATGGAA	Adapter 44	CTGAGCCA
Adapter 9	CGCTGATC	Adapter 21	ACGCTCGA	Adapter 33	CACTTCGA	Adapter 45	CTGGCATA
Adapter 10	ACAAGCTA	Adapter 22	ACGTATCA	Adapter 34	CAGCGTTA	Adapter 46	GAATCTGA
Adapter 11	CTGTAGCC	Adapter 23	ACTATGCA	Adapter 35	CATACCAA	Adapter 47	CAAGACTA
Adapter 12	AGTACAAG	Adapter 24	AGAGTCAA	Adapter 36	CCAGTTCA	Adapter 48	GAGCTGAA

NA111-04				NA111-05			
Components	Index sequence	Components	Index sequence	Components	Index sequence	Components	Index sequence
Adapter 49	GATAGACA	Adapter 61	TATCAGCA	Adapter 73	AATGTTGC	Adapter 85	CCATCCTC
Adapter 50	GCCACATA	Adapter 62	TCCGTCTA	Adapter 74	ACACGACC	Adapter 86	CCGACAAC
Adapter 51	GCGAGTAA	Adapter 63	TCTTCACA	Adapter 75	ACAGATTC	Adapter 87	CCTAATCC
Adapter 52	GCTAACGA	Adapter 64	TGAAGAGA	Adapter 76	AGATGTAC	Adapter 88	CCTCTATC
Adapter 53	GCTCGGTA	Adapter 65	TGGAACAA	Adapter 77	AGCACCTC	Adapter 89	CGACACAC
Adapter 54	GGAGAACA	Adapter 66	TGGCTTCA	Adapter 78	AGCCATGC	Adapter 90	CGGATTGC
Adapter 55	GGTGCGAA	Adapter 67	TGGTGGTA	Adapter 79	AGGCTAAC	Adapter 91	CTAAGGTC
Adapter 56	GTACGCAA	Adapter 68	TTCACGCA	Adapter 80	ATAGCGAC	Adapter 92	GAACAGGC
Adapter 57	GTCGTAGA	Adapter 69	AACTCACC	Adapter 81	ATCATTCC	Adapter 93	GACAGTGC
Adapter 58	GTCTGTCA	Adapter 70	AAGAGATC	Adapter 82	ATTGGCTC	Adapter 94	GAGTTAGC
Adapter 59	GTGTTCTA	Adapter 71	AAGGACAC	Adapter 83	CAAGGAGC	Adapter 95	GATGAATC
Adapter 60	TAGGATGA	Adapter 72	AATCCGTC	Adapter 84	CACCTTAC	Adapter 96	GCCAAGAC

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