

VAHTS® RNA Adapters set8 for MGI

NM208

Version 21.1



Product Description

VAHTS RNA Adapters set8 for MGI is a specialized kit for MGI high-throughput sequencing platform. It is suitable for preparing multi-sample RNA libraries for MGI high-throughput sequencing platform. This kit contains 96 different types of index adapters. All the adapters provided in the kit have undergone rigorous quality control and functional testing to ensure the optimal stability and repeatability of library preparation.

Components

Component	NM208-01	NM208-02
RNA Adapter	10 µl each	40 µl each

▲ RNA Adapter component information is shown in the following table.

NM208 components

	1	2	3	4	5	6	7	8	9	10	11	12
A	01	41	57	65	73	81	89	97	121	25	33	49
B	02	42	58	66	74	82	90	98	122	26	34	50
C	03	43	59	67	75	83	91	99	123	117	35	51
D	04	44	60	68	76	84	92	100	124	28	36	52
E	13	45	61	69	77	85	93	101	125	29	37	53
F	14	46	62	70	78	86	94	102	126	30	38	116
G	15	47	63	71	79	87	95	103	127	114	39	55
H	16	48	64	72	80	88	96	104	128	32	115	56

* It is recommended to use adapters in the NM208-01/02 kit in boxes of the same color.

Storage

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

Applications

Suitable for VAHTS Universal V6 RNA-seq Library Prep Kit for MGI (Vazyme #NRM604).

Quality Control

16 h incubation test: 50 µl of reaction system contains 5 µl of the product and 1 µg of *HindIII*-λDNA. Incubate at 37°C for 16 h and the bands show no degradation.

Endonuclease residue detection: 50 µl of reaction system contains 5 µl of the product and 1 µg of φX174 RF I DNA. Incubate at 37°C for 4 h. RF II conversion rate is less than 10%.

Adapter concentration test: Measure the absorbance of adapter at 260 nm. The difference between the measured result and the calculated value is less than 10%.

Adapter ligation efficiency test: 35 µl of ligation reaction system contains 1.5 pmol of 300 bp DNA fragments containing dA overhangs at both ends and 2.5 µl of the product. Incubate at 30°C for 10 min. Agarose gel electrophoresis results demonstrate that the adapter ligation efficiency at both ends is more than 90%.

Sequence Information

The structure of an RNA library prepared by using VAHTS RNA Adapters set8 for MGI is as follows:

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

Each type of RNA adapter provided in the kit includes a universal adapter. An index sequencing label is also provided to distinguish between different samples when performing high-throughput sequencing. The sequences of these RNA adapters are as follows:

Name	Sequence
Universal Adapter	5'-TTGTCTTCTAAGGAACGACATGGCTACGATCCGACTT-3'
RNA Adapter-X	5'-AGTCGGAGGCCAAGCGGTCTTAGGAAGACAAIIIIIIIIIIIAACTCCTTGGCTCACA-3'

IIIIIIIIII indicates a 10 bp index sequence. Enter the corresponding index sequence in the Sample Sheet before sequencing. The index sequence corresponding to each RNA adapter is shown below:

Adapter S/N	Index Sequence	Adapter S/N	Index Sequence	Adapter S/N	Index Sequence	Adapter S/N	Index Sequence
01	TAGGTCCGAT	44	CCACTAGTCC	69	CGTTCCTACT	93	CCGCTCAGTA
02	GGACGGAATC	45	TGGACTTGGC	70	GTGGTTGTGA	94	GGTGTGTACA
03	CTTACTGCCG	46	GCTTGACAGG	71	GAAGGCCTGC	95	TTCACGTAAG
04	ACCTAATTGA	47	AAGACCTCTA	72	TAGCTTGCCA	96	GGTCCACAC
13	CGGCAATCCG	48	AGTTGCCATA	73	GACAATGCTC	97	AGGTATTCTT
14	ATCAGGATTC	49	ATGTACGCAG	74	GCTAATCACA	98	CGAATGCAAC
15	TCATTCCAGA	50	TTAATGAGAT	75	AGTCCATAGG	99	TTCAACGGCG
16	GATGCTGGAT	51	TGCGCCACTT	76	CTATCGCCTA	100	CTCGGCGGAA
25	TAGAGGACAA	52	CATTAAGGCC	77	ATCGTGGTCT	101	ACGGTAATGG
26	CCTAGCGAAT	53	CCGCCTCAGA	78	TGGCTAATAC	102	GATCCGACGT
28	GCTGAGCTGT	55	GCCGGTTATC	79	CAGTGCAGAG	103	TCACGATACA
29	AACCTAGATA	56	GGAATATTGA	80	TCAGGCTGGT	104	GATTCTCTTC
30	TTGCCATCTC	57	ATTCAACGGA	81	ATACTCACGC	114	CCAGAGTCAG
32	CGCTATCGGC	58	AACTGTACTG	82	ATGCTCCGCG	115	AACAGGCAGT
33	GCAACGATGG	59	GTACCTCAAT	83	TGTGAACTTG	116	GCTCCATGAC
34	TAATCGTTCA	60	GACTTCTAAT	84	GAGAGGTGCT	117	ATGTCTATCC
35	GTTGCTCTA	61	TGAAGCGTTG	85	TGCACTGTAA	121	CCTTGATCAA
36	TCTCACACAT	62	CGTGCGATCC	86	GCCTAGGCAA	122	GGAAGTGGCA
37	CTGTAGGAT	63	TCGGAAGGCA	87	CCATCATAGC	123	AACATTCTAC
38	CGCAGACGCG	64	CCGATGTGCG	88	CATGGTAATT	124	GACGCGAGTC
39	AAGGATCATC	65	ACTTAGAATG	89	CACCATGTCT	125	CTATAACACT
41	TTAGATGCAT	66	TCCAAGCCTG	90	ATATGTCTGG	126	AGTCTCGTGT
42	GTCCAGAGCT	67	AGACGATGAT	91	AAGGAAGCGT	127	TCGGCCTATG
43	CACGTGATAG	68	CTCACAAGAC	92	TCAAGACGTC	128	TTGCAGACGG

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