

VAHTS Multiplex Oligos Set 5 for Illumina

N322

Version 22.2



Product Description

VAHTS Multiplex Oligos Set 5 for Illumina is a dedicated kit for library preparation for sequencing using Illumina high-throughput sequencing platforms. The kit contains VAHTS Adapter-S for Illumina, 8 kinds of VAHTS i5 PCR Primers and 12 kinds of VAHTS i7 PCR Primers, can be used to build libraries with up to 96 different combinations of Dual-indexed Adapters. Meanwhile, along with VAHTS Multiplex Oligos Set 4 for Illumina, the kit can be used to build libraries with up to 384 different combinations of Dual-indexed Adapters. 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

Function	Components	N322-01 (192 rxns)	
Universal Adapter	VAHTS Adapter-S for Illumina	4 × 240 µl	
	DM509	90 µl	
VAHTS i5 PCR Primers (DM509 - DM516)	DM510	90 µl	
	DM511	90 µl	
	DM512	90 µl	
	DM513	90 µl	
	DM514	90 µl	
	DM515	90 µl	
	DM516	90 µl	
VAHTS i7 PCR Primers (DM713 - DM724)	DM713	60 µl	
	DM714	60 µl	
	DM715	60 µl	
	DM716	60 µl	
	DM717	60 µl	
	DM718	60 µl	
	DM719	60 µl	
	DM720	60 µl	
	DM721	60 µl	
	DM722	60 µl	
	DM723	60 µl	
	DM724	60 µl	

▲ The usage amount of VAHTS i5 PCR Primers and VAHTS i7 PCR Primers are 2.5 µl, respectively.

Storage

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

Applications

Compatible for VAHTS Universal DNA Library Kit for Illumina (Vazyme #ND series). It is suitable for multi-sample Dual-indexed DNA library preparation.

Notes

For research use only. Not for use in diagnostic procedures.

1. The use amount of DNA Adapter depends on the Input DNA amount.
2. Please do not premix Adapter, Ligation Buffer and Ligase, or it may result in Adapter self-ligation.
3. Please do not keep this product at room temperature, or the ligation efficiency may decrease.

Library Structure and Sequences

The structure of a DNA library prepared by using VAHTS Multiplex Oligos Set 5 for Illumina is as follows:

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

Index sequences are as follows:

VAHTS i5 PCR Primers	i5 Index	Index Sequence in Sample Sheet/at Sequencing	
		NovaSeq v1.0, MiSeq, HiSeq 2000/2500	NovaSeq v1.5, MiniSeq, NextSeq, HiSeq 3000/4000
DM509	D509	GACCTGTA	TACAGGTC
DM510	D510	ATGTAAC	AGTTACAT
DM511	D511	GTTTCAGA	TCTGAAAC
DM512	D512	CACAGGAT	ATCCTGTG
DM513	D513	TAGCTGCC	GGCAGCTA
DM514	D514	AGCGAATG	CATTCGCT
DM515	D515	TATGCTGC	GCAGCATA
DM516	D516	AGAAGACT	AGTCTTCT

VAHTS i7 PCR Primers	i7 Index	Index Sequence in Sample Sheet/at Sequencing	
DM713	D713	CGTGTAGG	
DM714	D714	GACACTAC	
DM715	D715	TGCATACA	
DM716	D716	CAGTCTGG	
DM717	D717	TGGCACCT	
DM718	D718	CAAGGTGA	
DM719	D719	AAAGATAC	
DM720	D720	TGGAGCTG	
DM721	D721	TAAGGCGA	
DM722	D722	CGTACTAG	
DM723	D723	GCTACGCT	
DM724	D724	CGAGGCTC	

