

VAHTS Multiplex Oligos Set 4 for Illumina

N321

Version 22.1



Product Description

VAHTS Multiplex Oligos Set 4 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 5 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	N321-01 (192 rxns)	
Universal Adapter	VAHTS Adapter-S for Illumina	4 × 240 µl	
	DM501	90 µl	
VAHTS i5 PCR Primers (DM501 - DM508)	DM502	90 µl	
	DM503	90 µl	
	DM504	90 µl	
	DM505	90 µl	
	DM506	90 µl	
	DM507	90 µl	
	DM508	90 µl	
VAHTS i7 PCR Primers (DM701 - DM712)	DM701	60 µl	
	DM702	60 µl	
	DM703	60 µl	
	DM704	60 µl	
	DM705	60 µl	
	DM706	60 µl	
	DM707	60 µl	
	DM708	60 µl	
	DM709	60 µl	
	DM710	60 µl	
	DM711	60 µl	
	DM712	60 µl	

▲ VAHTS i5 PCR Primers and VAHTS i7 PCR Primers are used in a volume of 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 4 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
DM501	D501	TATAGCCT	AGGCTATA
DM502	D502	ATAGAGGC	GCCTCTAT
DM503	D503	CCTATCCT	AGGATAGG
DM504	D504	GGCTCTGA	TCAGAGCC
DM505	D505	AGGCGAAG	CTTCGCCT
DM506	D506	TAATCTTA	TAAGATTA
DM507	D507	CAGGACGT	ACGTCCTG
DM508	D508	GTA CTGAC	GTCAGTAC

VAHTS i7 PCR Primers	i7 Index	Index Sequence in Sample Sheet/at Sequencing	
DM701	D701	ATTACTCG	
DM702	D702	TCCGGAGA	
DM703	D703	CGCTCATT	
DM704	D704	GAGATTCC	
DM705	D705	ATTCAGAA	
DM706	D706	GAATTCGT	
DM707	D707	CTGAAGCT	
DM708	D708	TAATGCGC	
DM709	D709	CGGCTATG	
DM710	D710	TCCGCGAA	
DM711	D711	TCTCGCGC	
DM712	D712	AGCGATAG	

