

2020 Product Catalogue



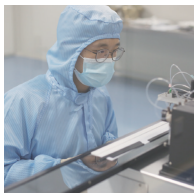
Reagents for NGS Library Preparation

www.vazyme.com | global@vazyme.com

Overview of Vazyme

Vazyme: InnoVation in Enzyme Technology

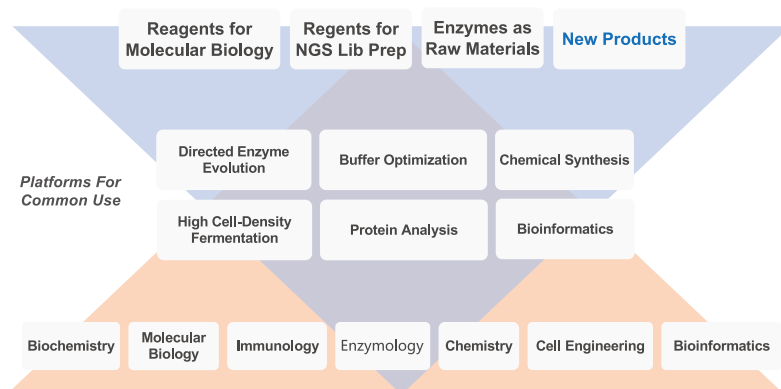
With the faith of "InnoVation in Enzyme Technology", Vazyme Biotech Co., Ltd. has passionately focused on developing enzyme and antibody technologies and products for years. The Vazyme Biotech is now staffed by more than 1,000 employees. The headquarter is located in Nanjing of China with a R&D / manufacturing base that covers 25,000 m² and a GMP workshop of 4,000 m². Vazyme has developed a powerful sales network in China and is expanding into international markets.



Vazyme Technologies and Products

With years of experience, Vazyme has developed six technology platforms that can be commonly used for R&D and manufacturing, including (1) directed enzyme evolution, (2) buffer optimization, (3) chemical synthesis, (4) high cell-density fermentation, (5) protein analysis, and (6) bioinformatics.

Based on the above platforms, Vazyme now provides a variety of products, solutions, and services, which fall into three major product lines, including (1) solutions for molecular biology research, (2) solutions for Next-Generation Sequencing (NGS) library preparation, and (3) enzymes as raw materials for industrial use.



Developing Technologies to Improve Human Health

Fascinated by the enzyme and antibody technologies, we regard enzymes and antibodies as the key factor of the biotechnology industry. Vazyme's vision is to develop technology to improve human health.

Experts for Experts

2020 Vazyme Product Catalogue

Reagents for NGS Library Preparation

Contents

Contents

Product List	01
Featured Products	04
Applications	05
DNA-Seq	05
RNA-Seq	13
Epigenetics	20
Single-Cell Seq	24
Beads & Library Quantification	26
cfDNA	28
Selected Product Citations	29

DNA-Seq

DNA Library Prep (for Illumina®)

Application	Product Name	Cat. No.#	Size
HOT Transposase-based DNA Lib Prep Kits	TruePrep DNA Library Prep Kit V2 for Illumina® (50 ng)	TD501	24 rxn/96 rxn
	TruePrep DNA Library Prep Kit V2 for Illumina® (5 ng)	TD502	24 rxn/96 rxn
	TruePrep DNA Library Prep Kit V2 for Illumina® (1 ng)	TD503	24 rxn/96 rxn
	TruePrep Homo-N7 DNA Library Prep Kit for Illumina®	TD511/TD512/TD513	96 rxn
Single-Indexed Adapters	TruePrep Index Kit V4 for Illumina®	TD204/TD205/TD206/TD207	192 rxn
Dual-Indexed Adapters	TruePrep Index Kit V2 / V3 for Illumina®	TD202/TD203	96 kinds/384 kinds
HOT Universal DNA Lib Prep Kits	VAHTS Universal DNA Library Prep Kit for Illumina® V3	ND607-01/02	24 rxn/96 rxn
	VAHTS Universal DNA Library Prep Kit for Illumina® V3 (PCR-Free)	ND607-03/04	24 rxn/96 rxn
	VAHTS Universal DNA Library Prep Kit for Illumina® V5	ND610-01/02	24 rxn/96 rxn
New DNA Lib Prep Kits for Enzymatic Fragmentation	VAHTS Universal Plus DNA Library Prep Kit for Illumina®	ND617-01/02	24 rxn/96 rxn
	FFPE DNA Lib Prep Kits	ND608-01/02	24 rxn/96 rxn
New ssDNA Lib Prep Kits	VAHTS ssDNA Library Prep Kit for Illumina®	ND620-01/02	24 rxn/96 rxn
	MP DNA Lib Prep Kits	ND104-01	48 rxn
Single-Indexed Adapters	VAHTS DNA Adapters Set1 / Set 2 for Illumina®	N801/N802-01/02	10 µl each/40 µl each
	VAHTS DNA Adapters Set 3 - Set 6 for Illumina®	N805/N806/N807/N808	20 µl each
Dual-Indexed Adapters	VAHTS Multiplex Oligos Set 4 / Set 5 for Illumina®	N321/N322	192 rxn
UMI Adapters	VAHTS Dual Index UMI DNA Adapters Set 1 - Set 4 for Illumina®	N331/N332/N333/N334	20 µl each
New Amplicon Lib Prep Kits	VAHTS AmpSeq Library Prep Kit V2	NA201-01/02	24 rxn/96 rxn
	VAHTS AmpSeq Library Prep Kit V3	NA210-01/02	24 rxn/96 rxn
Amplicon Lib Prep Adapters	VAHTS AmpSeq Adapters 1 - 24 for Illumina®	NA111-01/02	12 ×10 rxn
	VAHTS AmpSeq Adapters 25 - 96 for Illumina®	NA111-03/04/05	24 ×10 rxn
Cancer Panels	VAHTS AmpSeq Cancer HotSpot Panel	NA102-01	24 rxn

DNA Library Prep (for Ion Torrent®)

Application	Product Name	Cat. No.#	Size
Universal DNA Lib Prep Kits	VAHTS Universal DNA Library Prep Kit for Ion Torrent®	ND701-01/02	24 rxn/96 rxn
New Amplicon Lib Prep Kits	VAHTS AmpSeq Library Prep Kit V2	NA201-01/02	24 rxn/96 rxn
	VAHTS AmpSeq Library Prep Kit V3	NA210-01/02	24 rxn/96 rxn
Amplicon Lib Prep Adapters	VAHTS AmpSeq Adapters 1 - 24 for Ion Torrent®	NA121-01/02	12 ×10 rxn
	VAHTS AmpSeq Adapters 25 - 96 for Ion Torrent®	NA121-03/04/05	24 ×10 rxn

DNA Library Prep (for MGI®)

New

Application	Product Name	Cat. No.#	Size
Universal DNA Lib Prep Kits	VAHTS Universal DNA Library Prep Kit for MGI®	NDM607-01/02	24 rxn/96 rxn
	VAHTS Universal DNA Library Prep Kit for MGI® V5	NDM610-01/02	24 rxn/96 rxn
DNA Lib Prep Kits for Enzymatic Fragmentation	VAHTS Universal Plus DNA Library Prep Kit for MGI®	NDM617-01/02	24 rxn/96 rxn
FFPE DNA Lib Prep Kits	VAHTS Universal Pro DNA Library Prep Kit for MGI®	NDM608-01/02	24 rxn/96 rxn
Single-Indexed Adapters	VAHTS DNA Adapters Set 8 for MGI®	NM108-01/02	10 µl each/40 µl each
Dual-Indexed UMI Adapters	VAHTS Dual UMI Adapters for MGI®	NM301-01/02	10 µl each/40 µl each
Circularization Kit	VAHTS Circularization Kit for MGI®	NM201-01/02	16 rxn/48 rxn
Amplification Module	VAHTS HiFi Amplification Mix for MGI®	NM616-01/02	24 rxn/96 rxn
Amplicon Lib Prep Kits	VAHTS AmpSeq General Library Prep Kit for MGI®	NAM203-01/02	24 rxn/96 rxn

Modules for DNA Library Prep

Application	Product Name	Cat. No.#	Size
TurePrep Lib Amplification	TruePrep Amplify Enzyme	TD601	96 rxn
New FFPE Repair	VAHTS DNA Damage Repair Kit	N208-01/02	24 rxn/96 rxn
New Enzymatic Fragmentation	VAHTS Universal Plus Fragmentation Module	N209-01/02	24 rxn/96 rxn
	VAHTS Universal End preparation Module for Illumina®	N203-01/02	24 rxn/96 rxn
DNA Lib Prep Modules	VAHTS Universal Adapter Ligation Module for Illumina®	N204-01/02	24 rxn/96 rxn
	VAHTS HiFi Amplification Mix	N616-01/02	24 rxn/96 rxn
AmpSeq Multi-PCR	VAHTS AmpSeq Multi-PCR Module V2	NA205-01/02	24 rxn/96 rxn
T4 DNA Polymerase	T4 DNA Polymerase	N101-01	2,000 U
T4 Polynucleotide Kinase	T4 Polynucleotide Kinase	N102-01	10,000 U
T4 DNA Ligase (Rapid)	T4 DNA Ligase (Rapid)	N103-01	600,000 U
	DNA Polymerase I Klenow Fragment	N104-01	5,000 U
Klenow DNA Polymerase	DNA Polymerase I Klenow Fragment exo-	N105-01	5,000 U
Phi29 DNA Polymerase	Phi29 MAX DNA Polymerase	N106-01/02	250 U/1,250 U
Amplification Module	Phanta Uc Super-Fidelity DNA Polymerase for Library Amplification	P507-01/02	100 U/500 U

RNA-Seq

RNA Library Prep (for Illumina®)

Application	Product Name	Cat. No.#	Size
Total RNA Lib Prep Kits (rRNA Depletion)	VAHTS Total RNA-Seq (H/M/R) Library Prep Kit for Illumina®	NR603-01/02	24 rxn/96 rxn
HOT Ultra Fast & Universal RNA Lib Prep Kits	VAHTS Universal V6 RNA-Seq Library Prep Kit for Illumina®	NR604-01/02	24 rxn/96 rxn
New	VAHTS Universal V8 RNA-Seq Library Prep Kit for Illumina®	NR605-01/02	24 rxn/96 rxn
Single-Indexed Adapters	VAHTS RNA Adapters Set 1 / Set 2 for Illumina®	N803/N804-01/02	10 µl each/40 µl each
	VAHTS RNA Adapters Set 3 - Set 6 for Illumina®	N809/N810/N811/N812	20 µl each
Dual-Indexed Adapters	VAHTS RNA Multiplex Oligos Set 1 / Set 2 for Illumina®	N323 / N324	192 rxn each
SmaII RNA Lib Prep Kits	VAHTS SmaII RNA Library Prep Kit for Illumina®	NR801-01/02	24 rxn/96 rxn
SmaII RNA Lib Prep Adapters	VAHTS SmaII RNA Index Primer Kit for Illumina®	N813/N814/N815/N816	48 rxn each

RNA Library Prep (for MGI®)

New

Application	Product Name	Cat. No.#	Size
Non-Stranded mRNA Lib Prep Kits	VAHTS mRNA-Seq V3 Library Prep Kit for MGI®	NRM611-01/02	24 rxn/96 rxn
Total RNA Lib Prep Kits (rRNA Depletion)	VAHTS Total RNA-Seq (H/M/R) Library Prep Kit for MGI®	NRM603-01/02	24 rxn/96 rxn
Ultra Fast & Universal RNA Lib Prep Kits	VAHTS Universal V6 RNA-Seq Library Prep Kit for MGI®	NRM604-01/02	24 rxn/96 rxn
	VAHTS Universal V8 RNA-Seq Library Prep Kit for MGI®	NRM605-01/02	24 rxn/96 rxn
Single-Indexed Adapters	VAHTS RNA Adapters Set 8 for MGI®	NM208-01/02	10 µl each/40 µl each

Modules for RNA Library Prep

Application	Product Name	Cat. No.#	Size
mRNA Capture Beads	VAHTS mRNA Capture Beads	N401-01/02	24 rxn/96 rxn
RNA Fragmentation	VATHS 2 × Frag / Prime Buffer	N402-01	96 rxn
	Ribo-off rRNA Depletion Kit (Human / Mouse / Rat)	N406-01/02	24 rxn / 96 rxn
HOT rRNA Depletion Kits	Ribo-off rRNA Depletion Kit (Bacteria)	N407-01/02	12 rxn / 24 rxn
New	Ribo-off rRNA Depletion Kit (Plant)	N409-01/02	12 rxn / 24 rxn



Epigenetics

Application	Product Name	Cat. No.#	Size
Methylation Bisulfite Kit	EpiArt DNA Methylation Bisulfite Kit	EM101-01/02	50 rxn/200 rxn
Amplification Kit	2 × EpiArt HS Tag Master Mix	EM201-01/02/03	1 ml/5 ml/15 ml
	2 × EpiArt HS Tag Master Mix (Dye Plus)	EM202-01/02/03	1 ml/5 ml/15 ml
Methylation Lib Prep Kit	EpiArt DNA Methylation Library Kit	NE101-01/02	24 rxn/96 rxn
pG/pA-Tn5 for CUT&Tag	Hyperactive pG-Tn5 Transposase for CUT&Tag	S602-01/02	10 ug/20 ug
	Hyperactive pA-Tn5 Transposase for CUT&Tag	S603-01/02	10 ug/20 ug
HOT pG/pA-Tn5 for CUT&Tag (Pre-loaded with Adapters)	Hyperactive pG-Tn5 Transposon for Illumina (4 μM)	S612-01/02	10 ug/20 ug
	Hyperactive pA-Tn5 Transposon for Illumina (4 μM)	S613-01/02	10 ug/20 ug
HOT CUT&Tag Lib Prep Kit (Pre-loaded with Adapters)	Hyperactive In-Situ ChIP Library Prep Kit for Illumina (pG-Tn5)	TD901-01/02	12 rxn/48 rxn
	Hyperactive In-Situ ChIP Library Prep Kit for Illumina (pA-Tn5)	TD902-01/02	12 rxn/48 rxn
CUT&RUN	Hyperactive pA-MNase for CUT&RUN	S701-01/02	10 ug/20 ug

Single Cell-Seq

Application	Product Name	Cat. No.#	Size
Single Cell WGA	Discover-sc Single Cell Kit	N601-01/02	24 rxn/96 rxn
	Discover-sc Single Cell WGA Kit	N603-01/02	24 rxn/96 rxn
Single Cell WTA	Single Cell Full Length mRNA-Amplification Kit	N712-01/02/03	12 rxn/24 rxn/96 rxn

Beads & Library Quantification

Application	Product Name	Cat. No.#	Size
HOT DNA Clean-up & Size-Selection	VAHTS DNA Clean Beads	N411-01/02/03	5 ml/60 ml/450 ml
	RNA Clean-up	N412-01/02/03	5 ml/40 ml/450 ml
Library Quantification Kits	VAHTS Library Quantification Kit for Illumina®	NQ101/102/103/104	500 rxn
	DNA Standard 1-6	NQ105	8 rxn
	Library Dilution Buffer	NQ106	50 ml
	Equalbit dsDNA HS Assay Kit	EQ111-01/02	100 / 500 assays
New Equalbit Assay Kits	Equalbit 1x dsDNA HS Assay Kit	EQ121-01/02	100 / 500 assays
	Equalbit RNA HS Assay Kit	EQ211-01/02	100 / 500 assays
	Equalbit RNA BR Assay Kit	EQ212-01/02	100 / 500 assays

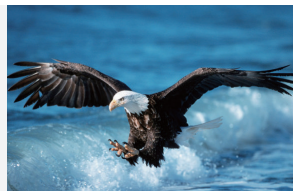
cfDNA

Application	Product Name	Cat. No.#	Size
cfDNA Preservation	VAHTS Blood Collection Tube for Cell-Free DNA Preservation	N901	10 ml tube
cfDNA Isolation	VAHTS Serum / Plasma Circulating DNA Kit	N902-01/02	50 rxn / 200 rxn

● **TruePrep DNA Library Prep Kit V2 for Illumina (Vazyme, #TD501/502/503)**

Transposase (Tn5)-based Ultra-Fast DNA Library Prep Kit

- **Easy to Use** One-step enzymatic reaction.
- **Ultra-Fast** Library prep within **90 min.**
- **Versatile** Applicable for genomic DNA, single cell-seq, and epigenetics (i.e. ATAC-Seq).
- **Reliable** Optimized polymerase and buffer to achieve high efficiency and uniformity.



● **VAHTS Universal Plus DNA Library Prep Kit for Illumina (Vazyme, #ND617)**

DNA Library Prep Kit with Enzymatic Fragmentation

- **Universal** Applicable for 100 pg - 1 µg of input DNA from many species.
- **Easy** Enzymatic fragmentation with no need for physical shearing / sonication.
- **Time-Saving** Fragmentation, end repair, dA-tailing are performed in one step.
- **Reliable** Generate high-quality DNA libraries with high yields.



● **VAHTS Universal V6 RNA-seq Library Prep Kit for Illumina (Vazyme #NR604)**

Fast & Effective RNA Library Prep Kit

- **Fast** The 2nd strand cDNA synthesis, end-repair, and dA-Tailing in one reaction! High-quality library prepared from enriched RNA within **4 hours.**
- **Flexible** Compatible with a variety of RNA enrichment modules.
- **Universal** Options for the preparation of stranded or non-stranded RNA-Seq libraries.



● **Hyperactive In-Situ ChIP Library Prep Kit for Illumina (pG/pA-Tn5) (Vazyme, #TD901/902)**

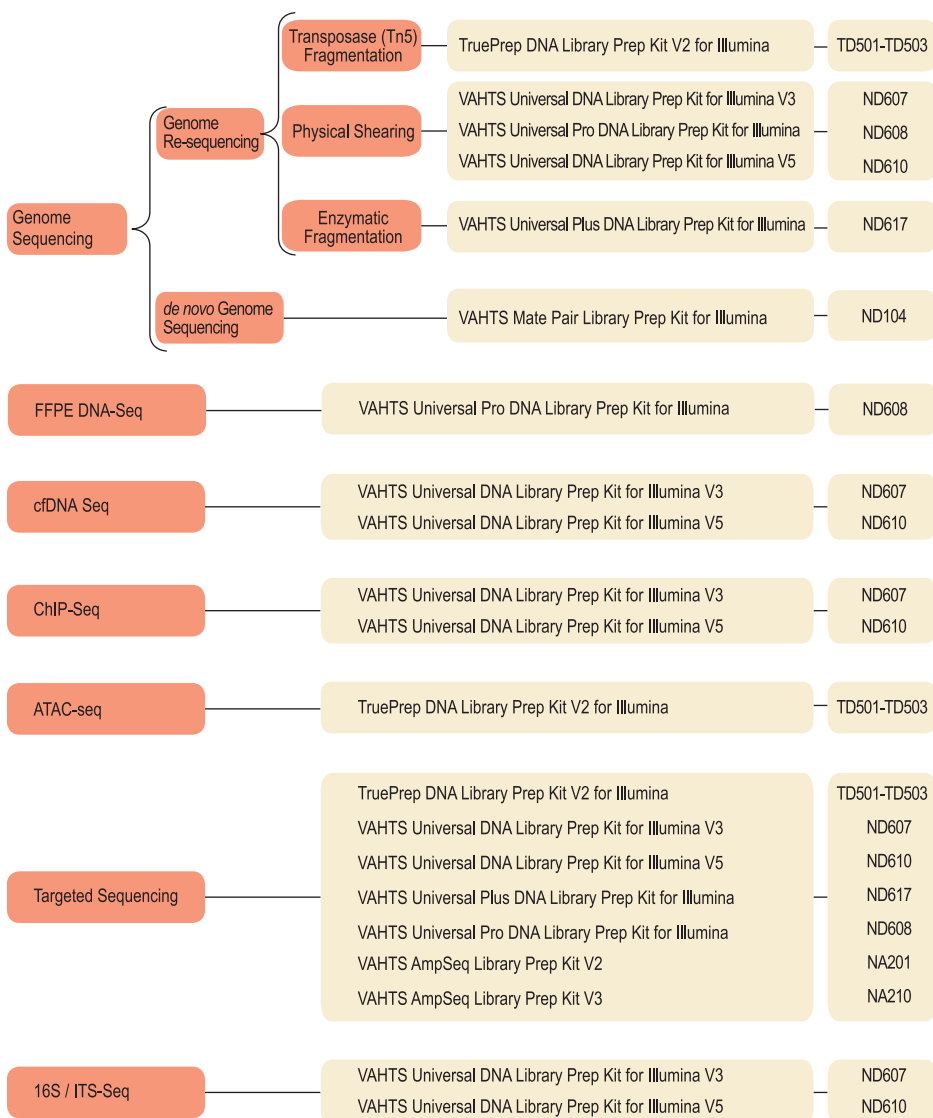
An revolutionary technology that can replace CUT&RUN and ChIP-Seq.

- **Easy to Operate** DNA tagmentation and adapters ligation in one step. Sequencing-ready libraries can be generated from live cells within only **9 hours.**
- **Hyperactive** pG/A & Tn5 transposase with hyper activity results in high efficiency of DNA tagmentation.
- **Low Input** Starting from 60 cells or even single cells.
- **High Purity** Proteins with high purity and extra low residual amount of nucleic acid.



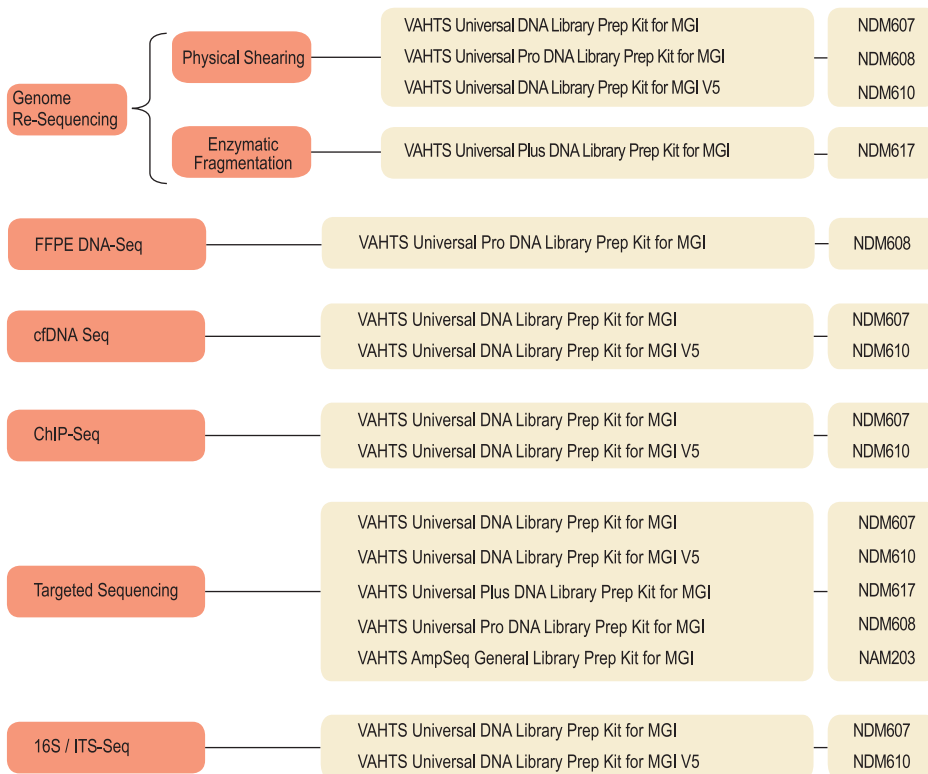


DNA-Seq Library Prep for Illumina®





DNA-Seq Library Prep for MGI®





TruePrep DNA Library Prep (Transposase-based)



➔ TruePrep DNA Library Prep Kit V2 for Illumina® (#TD501, #TD502, #TD503)

Rapid & Easy

Time-Saving: Library prepared within **90 min.**

Easy-to-Use: one-step enzymatic reaction, no need for physical shearing / sonication.

High Adaptability to Input DNA

Applicable for genomic DNA, cDNA, and amplicons from multiple species.

Input DNA: **1 ng - 50 ng.**

High Amplification Uniformity

Optimized polymerase and buffer to achieve high efficiency and uniformity in library amplification.



Selected Product Citations of TruePrep Kits (#TD501, #TD502, #TD503)

Wang J, et al. Asymmetric expression of LincGET biases cell fate in two-cell mouse embryos. *Cell*, 2018, 175(7):18871-1901.

Han X, et al. Mapping the Mouse Cell Atlas by Microwell-Seq. *Cell*, 2018, 172(5):1091-107.

Zhang L, et al. Lineage tracking reveals dynamic relationships of T cells in colorectal cancer. *Nature*, 2018, 564(7735):268-72.

Wu J, et al. Chromatin analysis in human early development reveals epigenetic transition during ZGA. *Nature*, 2018, 557(7704):256-60.

Zheng C, et al. Landscape of Infiltrating T Cells in Liver Cancer Revealed by Single-Cell Sequencing. *Cell*, 2017, 169(7):1342-56.

Huang X, et al. Genomic architecture of heterosis for yield traits in rice. *Nature*, 2016, 537(7622):629-33.

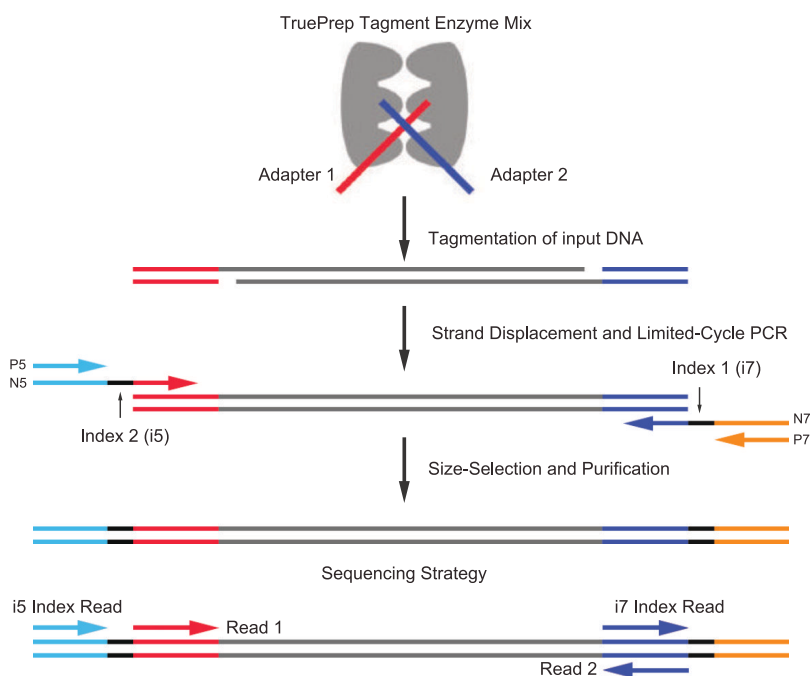
Wu J, et al. The landscape of accessible chromatin in mammalian preimplantation embryos. *Nature*, 2016, 534(7609):652-7.

Guo X, et al. Global characterization of T cells in non-small-cell lung cancer by single-cell sequencing. *Nature Medicine*, 2018, 24(7):978-85.



Mechanism of TruePrep DNA Library Prep

TruePrep Tagment Enzyme Mix (TTE Mix) contains transposase and two kinds of adapters (Adapter 1 and Adapter 2) with equal molar. Input DNA are fragmented and linked with adapters on both ends just by mixing with TTE Mix, followed by a 10-minute incubation at 55°C. The tagged DNA fragments can be further amplified with two pairs of primers N5 (N5XX) / N7 (N7XX) and P5 / P7 (PCR Primer Mix, PPM). After size selection and clean-up, the library is ready for sequencing on Illumina platforms.



Adapter 1 and Adapter 2, two oligos embedded in TruePrep Tagment Enzyme

P5 and P7, two universal PCR Primers

N5 and N7, two index primers containing index 2 (i5) and index 1 (i7) respectively

Index 2 (i5) 5'-AATGATACGGCGACCCGAGATCTACACIIIIIIITCGTCGGCAGCGTCAGATGTGTATAAGAGACAG-NNNNNN-CTGTCTCTTATACATCTCCGAGCCACGAGACIIIIIIATCTCGTATGCCGTCTTCTGCTTG-3' Index 1 (i7)

IIIIIII: Index 2 (i5), 8 bases IIIIIII: Index 1 (i7), 8 bases -NNNNNN-: insert sequence



VAHTS Universal Plus DNA Library Prep Kit for Illumina® (#ND617) (for Enzymatic Fragmentation)

Universal

Applicable for 100 pg-1 µg of input DNA (e.g. genomic DNA, FFPE DNA) from many species.

Easy

Enzymatic fragmentation with a single protocol, with no need for physical shearing / sonication.

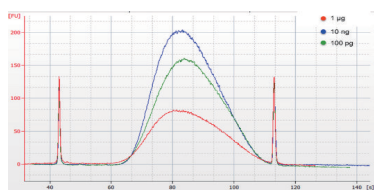
Time-Saving

Fragmentation, end repair, dA-tailing are performed in one step. No clean-ups needed before adapter ligation.

Reliable

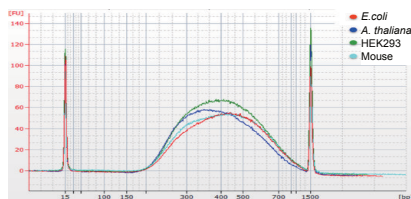
Generate high-quality DNA libraries with high yields.

1. Broad Input Amount Compatibility



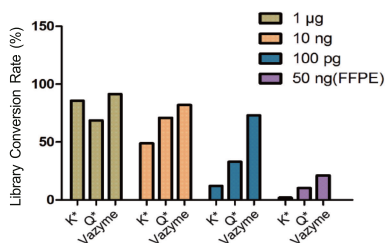
Size distribution of library fragments constructed with different DNA input. For different input amounts of salmon sperm gDNA (100 pg, 10 ng, 1 µg, respectively) with the same fragmentation time, the size distribution of these libraries were identical.

2. Extensive Species Compatibility

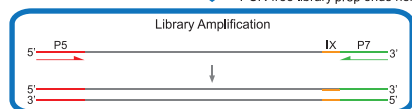
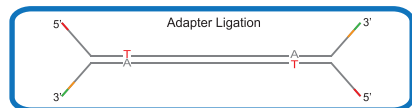
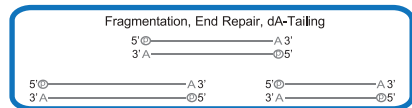
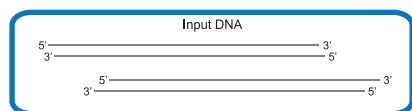


Size distribution of library fragments constructed by gDNA of different species. For the same input of 100 ng, the size distribution of these libraries from different species were identical.

3. Excellent Library Conversion Rate



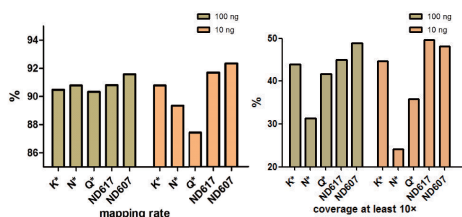
Comparison of library conversion rates. For different input amount of gDNA libraries, Vazyme #ND617 has a higher library conversion rate than that of other competitors.



VAHTS DNA Adapter for Illumina
Compatible with:
- DNA
- ChIP-DNA
- RNA (non-small RNA)

Legend:
⊕ 5' Phosphate
A 3' dA Tail
T 3' dT Tail
IX, Index
P5 sequence
P7 sequence

4. High Sequencing Data Quality

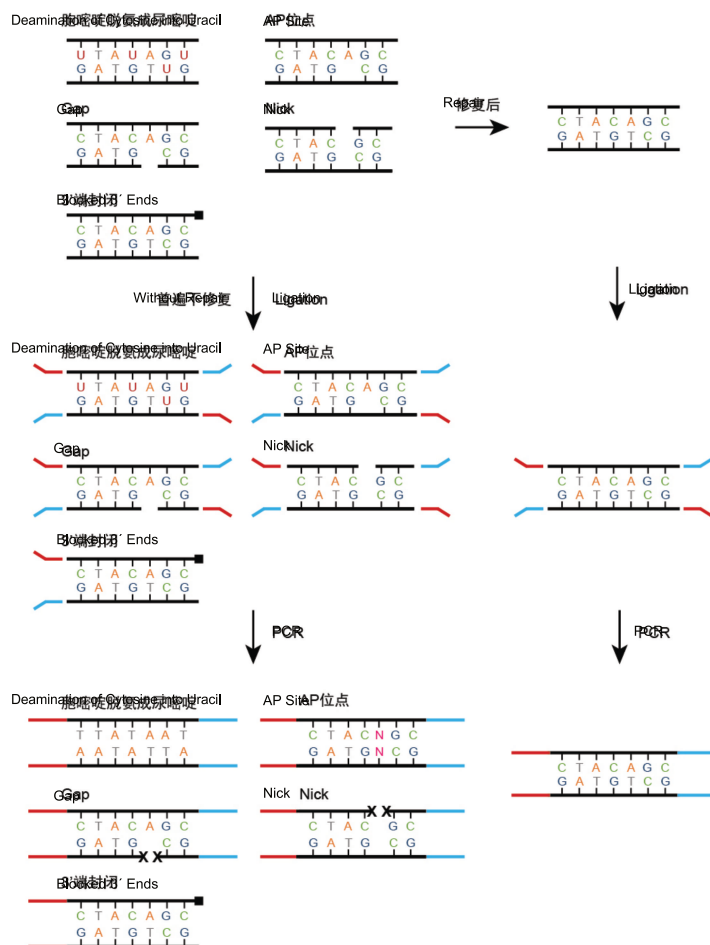


Comparison of sequencing data quality. The Arabidopsis thaliana gDNA library constructed using Vazyme ND617, followed by sequencing on HiSeq X10 PE150.



Mechanism of FFPE DNA Library Prep

VAHTS Universal Pro DNA Library Prep Kit for Illumina (Vazyme, #ND608) is specially designed for library preparation from 100 pg - 1 µg of input DNA for NGS on Illumina® platforms. This kit contains a DNA damage repair module that can effectively repair DNA damage caused by formalin-fixed paraffin-embedded (FFPE), including deamination of cytosine, nicks and gaps, oxidized bases, blocked 3' ends, compatible with common DNA samples without affecting the quality of normal DNA sample libraries. The overall optimization of the module of end-repair, ligation and library amplification leads to excellent library conversion rate and amplification output. It is widely applicable to PCR or PCR-Free library construction of multiple samples, and is compatible with targeted capture process.



DNA Library Prep without or with DNA Damage Repair



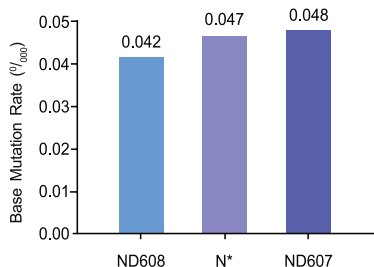
→ VAHTS Universal Pro DNA Library Prep Kit for Illumina® (#ND608)

Repairable Types of DNA Damage

Types of DNA Damage in FFPE Samples	Deamination of Cytosine into Uracil	Nicks & Gaps	Oxidized Bases	Blocked 3' Ends	DNA Fragmentation	DNA-Protein Crosslinks
Whether Can Be Repaired by #ND608	YES	YES	YES	YES	NO	NO

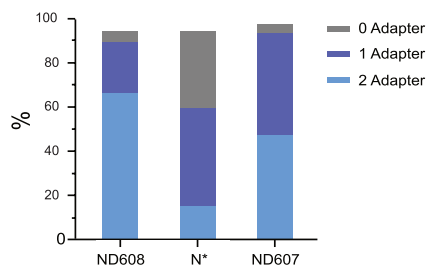
Validation Data

1. Efficient Repair of Base Damage



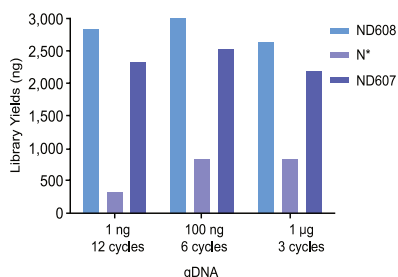
The DNA Repair Module of the ND608 has the ability to repair base damage efficiently, significantly reducing the number of base aberrant mutations introduced during FFPE sample preparation and storage.

2. Efficient Library Conversion



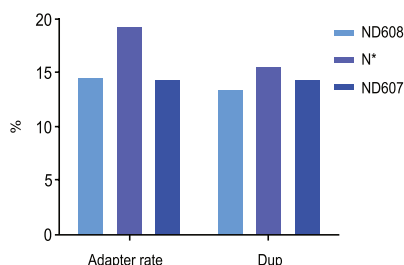
The library conversion rate of ND608 is higher than that of N* company and VAHTS Universal Plus DNA Library Prep Kit for Illumina (Vazyme, #ND607, without FFPE repair module), and the library conversion rate is as high as 67%.

3. Excellent Library amplification Efficiency



For amplification, the yield of the library constructed by ND608 is increased by 3-9 times compared with other kits under the same cycle number; the number of cycles required for competing products is reduced by 2-3 cycles under the same yield.

4. Excellent Raw Data Quality



ND608 can effectively improve the data quality of samples, with lower Adapter rate and Duplication rate.



VAHTS Universal DNA Library Prep Kit for Illumina® V3 (#ND607) (for physical fragmentation)

Time-Saving

Library prepared within **75 min.**

High Adaptability to Input Amount

Effective library preparation from **100 pg - 4 µg** of Input DNA.

Applicable to Most Samples

Genomic DNA, cfDNA, ctDNA, FFPE DNA, ChIP DNA, and Amplicons.

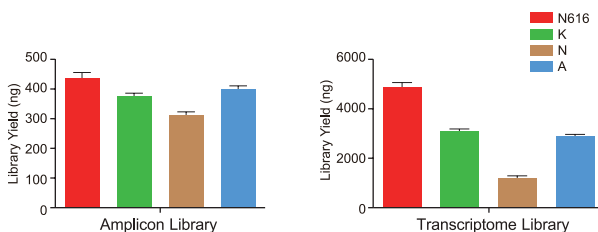
Excellent Adapter Ligation Efficiency

Suitable for library preparation with PCR or PCR-free.



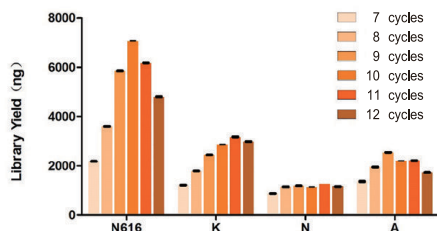
VAHTS HiFi Amplification Mix (#N616)

Excellent Template Adaptability



The amplification performance of **VAHTS HiFi Amplification Mix (Vazyme, #N616)** in multiple samples is significantly better than that of competitors. Amplicon library (80 ng) and transcriptome library (5 ng) was used as template and amplified for 4 and 13 cycles, respectively. The library concentrations were determined by Qubit.

Super High Plateau of Amplification



The amplification plateau of **VAHTS HiFi Amplification Mix (Vazyme, #N616)** can reach 7 µg, which is significantly superior to that of competitors. Fragmented DNA (50 ng, approximately 350 bp) was ligated with adapters and then amplified. The library concentrations were determined by Qubit.



RNA-Seq Library Prep for Illumina®

Ultra Fast & Universal RNA-Seq	Kit	VAHTS Universal V6 RNA-seq Library Prep Kit for Illumina VAHTS Universal V8 RNA-seq Library Prep Kit for Illumina	NR604 NR605
	Adapter	VAHTS RNA Adapters Set 1-Set 6 for Illumina VAHTS RNA Multiplex Oligos Set 1-Set 2 for Illumina	N803/N804 & N809-N812 N323/N324
	Module	VAHTS mRNA Capture Beads Ribo-off rRNA Depletion Kit (Human/Mouse/Rat) Ribo-off rRNA Depletion Kit (Bacteria) Ribo-off rRNA Depletion Kit (Plant)	N401 N406 N407 N409
Non-Stranded mRNA-Seq	Kit	VAHTS Universal V6 RNA-seq Library Prep Kit for Illumina VAHTS Universal V8 RNA-seq Library Prep Kit for Illumina	NR604 NR605
	Adapter	VAHTS RNA Adapters Set 1-Set 6 for Illumina VAHTS RNA Multiplex Oligos Set 1-Set 2 for Illumina	N803/N804 & N809-N812 N323/N324
	Module	VAHTS mRNA Capture Beads	N401
Stranded mRNA-Seq	Kit	VAHTS Universal V6 RNA-seq Library Prep Kit for Illumina VAHTS Universal V8 RNA-seq Library Prep Kit for Illumina	NR604 NR605
	Adapter	VAHTS RNA Adapters Set 1-Set 6 for Illumina VAHTS RNA Multiplex Oligos Set 1-Set 2 for Illumina	N803/N804 & N809-N812 N323/N324
	Module	VAHTS mRNA Capture Beads	N401
Total RNA-Seq (rRNA Depletion)	Kit	VAHTS Total RNA-Seq (H/M/R) Library Prep Kit for Illumina VAHTS Universal V6 RNA-seq Library Prep Kit for Illumina VAHTS Universal V8 RNA-seq Library Prep Kit for Illumina	NR603 NR604 NR605
	Adapter	VAHTS RNA Adapters Set 1-Set 6 for Illumina VAHTS RNA Multiplex Oligos Set 1-Set 2 for Illumina	N803/N804 & N809-N812 N323/N324
	Module	Ribo-off rRNA Depletion Kit (Human/Mouse/Rat) Ribo-off rRNA Depletion Kit (Bacteria) Ribo-off rRNA Depletion Kit (Plant)	N406 N407 N409
Small RNA-Seq	Kit	VAHTS Small RNA Library Prep Kit for Illumina	NR801
	Adapter	VAHTS Small RNA Index Primer Kit for Illumina	N813-N816



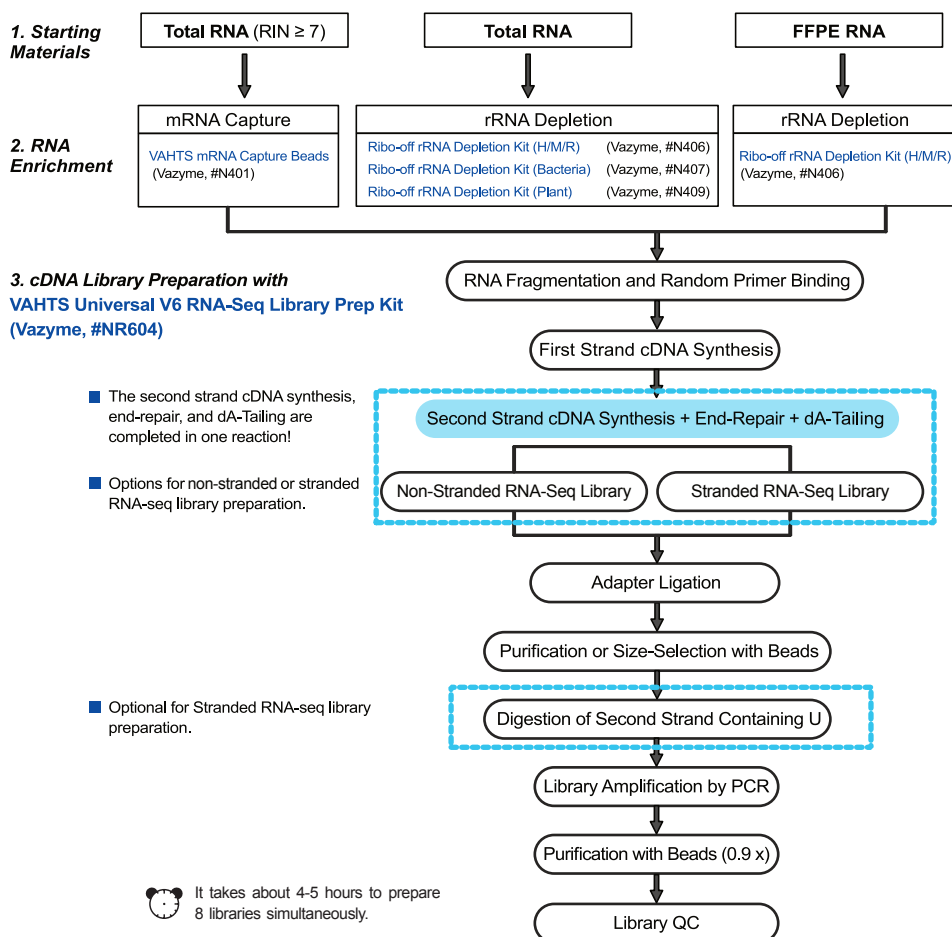
RNA-Seq Library Prep for MGI®

Ultra Fast & Universal RNA-Seq	Kit	VAHTS Universal V6 RNA-seq Library Prep Kit for MGI VAHTS Universal V8 RNA-seq Library Prep Kit for MGI	NRM604 NRM605
	Adapter	VAHTS RNA Adapters Set 8 for MGI	NM208
	Module	VAHTS mRNA Capture Beads Ribo-off rRNA Depletion Kit (Human/Mouse/Rat) Ribo-off rRNA Depletion Kit (Bacteria) Ribo-off rRNA Depletion Kit (Plant)	N401 N406 N407 N409
Non-Stranded mRNA-Seq	Kit	VAHTS Universal V6 RNA-seq Library Prep Kit for MGI VAHTS Universal V8 RNA-seq Library Prep Kit for MGI	NRM604 NRM605
	Adapter	VAHTS RNA Adapters Set 8 for MGI	NM208
	Module	VAHTS mRNA Capture Beads	N401
Stranded mRNA-Seq	Kit	VAHTS Universal V6 RNA-seq Library Prep Kit for MGI VAHTS Universal V8 RNA-seq Library Prep Kit for MGI	NRM604 NRM605
	Adapter	VAHTS RNA Adapters Set 8 for MGI	NM208
	Module	VAHTS mRNA Capture Beads	N401
Total RNA-Seq (rRNA Depletion)	Kit	VAHTS Total RNA-Seq (H/M/R) Library Prep Kit for MGI VAHTS Universal V6 RNA-seq Library Prep Kit for MGI VAHTS Universal V8 RNA-seq Library Prep Kit for MGI	NRM603 NRM604 NRM605
	Adapter	VAHTS RNA Adapters Set 8 for MGI	NM208
	Module	Ribo-off rRNA Depletion Kit (Human/Mouse/Rat) Ribo-off rRNA Depletion Kit (Bacteria) Ribo-off rRNA Depletion Kit (Plant)	N406 N407 N409



Solutions of RNA-Seq Library Preparation

VAHTS Universal V6 RNA-seq Library Prep Kit for Illumina® (Vazyme, #NR604) is specially designed for the preparation of transcriptome libraries for NGS platforms of Illumina®. This kit combines 2nd Strand cDNA synthesis, end-repair, and dA-Tailing into one step, with no need of clean-ups, which greatly simplifies the process of library construction and shortens the operation time. The kit also can be used for non-stranded or stranded transcriptome analysis.



Mechanism of VAHTS Universal V6 RNA-seq Library Prep Kit for Illumina® (Vazyme, #NR604)



VAHTS Universal V6 RNA-seq Library Prep Kit for Illumina® (#NR604)

Fast

The second strand cDNA synthesis, end-repair, and dA-Tailing are completed in one reaction!
High-quality library prepared from enriched RNA within **4 hours**.

Flexible

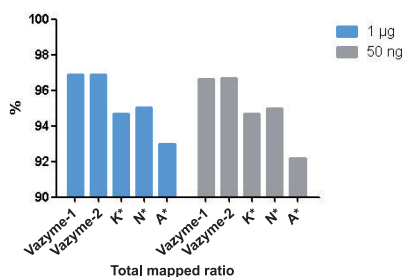
Compatible with a variety of RNA enrichment modules.

Universal

Options for the preparation of stranded or non-stranded RNA-Seq libraries.

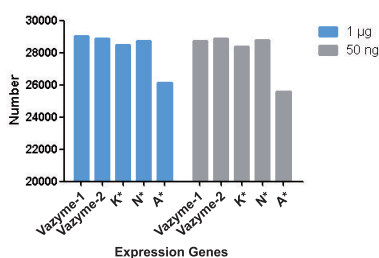
Validation Data

1. High Mapped Rate



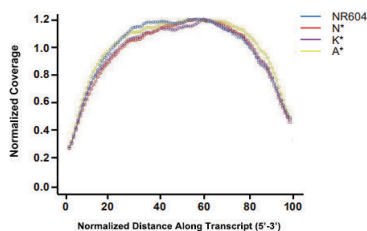
Compared with several similar kits, Vazyme, #NR604 performed better in mapped ratio.

2. High Gene Detection Number



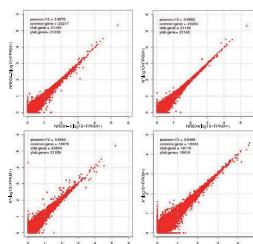
Compared with several similar kits on the market, Vazyme, #NR604 showed higher gene detection number.

3. Excellent Uniformity



The data of library prepared using Vazyme, #NR604 was evenly distributed, with no 5'- or 3'- preference, and is highly consistent with several similar kits.

4. High Expression Repeat Correlation



The correlation coefficient r^2 between Vazyme, #NR604 and several similar kits on the market is higher than 0.94.



Total RNA-Seq Library Prep



VAHTS Total RNA-seq (H/M/R) Library Prep Kit for Illumina® (#NR603)

Extensive Species Compatibility

Compatible with human, mouse, rat, and many other species.

High rRNA Removal Efficiency

rRNA removal efficiency up to 99.9%.

Low Template Input Amount

As low input as 100 ng total RNA.

Optimized Fragmentation & Size-Selection

Provides fragmentation and size selection solutions for four different fragments.



Selected Product Citations

He Y, et al. Transitory presence of myeloid-derived suppressor cells in neonates is critical for control of inflammation. *Nature Medicine*, 2018, 24(2):224-31.

LETTERS

**nature
medicine**

Transitory presence of myeloid-derived suppressor cells in neonates is critical for control of inflammation

Yu-Mei He^{1,2,9}, Xing Li^{1,3,9}, Michela Perego^{4,9}, Yulia Nefedova⁴, Andrew V Kossenkov⁴, Erik A Jensen⁵, Valerian Kagan⁶, Yu-Feng Liu¹, Shu-Yu Fu¹, Qing-Jian Ye³, Yan-Hong Zhou⁷, Lai Wei⁸, Dmitry I Gabrilovich^{1,2,4,10} & Jie Zhou^{1,2,7,10}

PMN-MDSCs and M-MDSCs from spleens of neonatal (7 d old) and adult mice (6 to 8 weeks old) were enriched with CD11b-beads and then sorted on a FACSAria cell sorter (BD Bioscience), on the basis of the CD11b+Ly6CintLy6G+phenotype for PMN-MDSCs and CD11b+Ly6ChighLy6G- for M-MDSCs. The sorting purity was >95%. RNA sequencing was performed on the Illumina HiSeq 2500 platform. A **VAHTS Total RNA-Seq Library Preparation Kit (Vazyme Biotech)** was used for library preparation. Single-end-read runs were used with read lengths up to 50 bp in high-output mode and 30 million total read counts. Data were analyzed in RSEM v1.2.12 software³⁰ against the mm10 genome, and genelevel read counts and RPKM values on the gene level were estimated for the ensemble transcriptome.

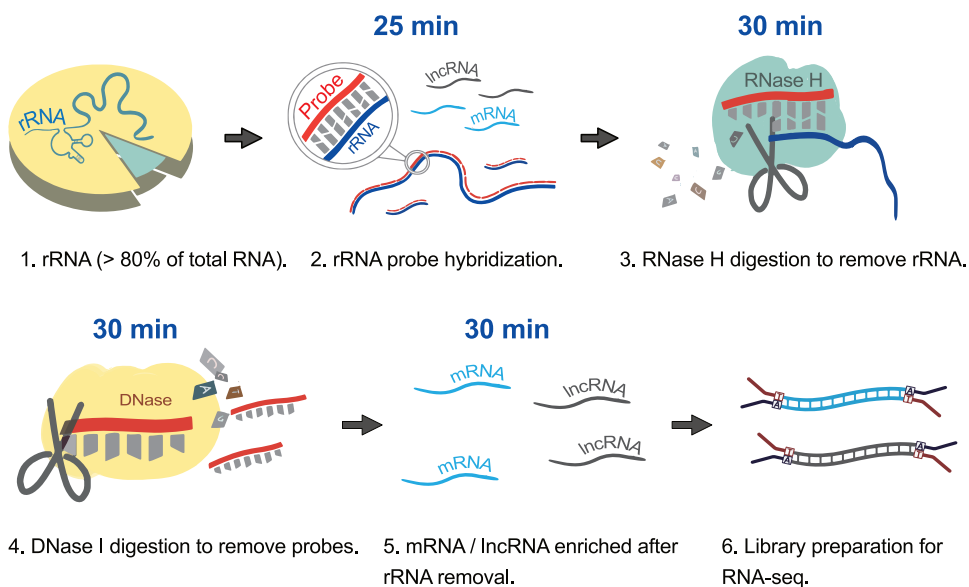


Ribo-off rRNA Depletion Kits

Ribo-off Modules	Cat#	In-put Total RNA	Species
Ribo-off rRNA Depletion Kit (H/M/R)	#N406	50 ng - 1 µg	Human, mouse, rat, etc.*
Ribo-off rRNA Depletion Kit (Bacteria)	#N407	1 µg - 5 µg	Bacteria.
Ribo-off rRNA Depletion Kit (Plant)	#N409	1 µg - 5 µg	Plants.

* Validated species of #N406: human, mouse, rat, cattle, dog, horse, chicken, monkey, pig, zebrafish, etc.

Complete rRNA removal within 2 hours.





Ribo-off rRNA Depletion Kit (Plant) (#N409)

Extensive Species Compatibility

Compatible with Arabidopsis, cotton, corn, soybean, rice, tomato, peanut, apple, wheat, Selaginella, Cuscuta, etc.

High rRNA Removal Efficiency

Effective removal of cytoplasmic rRNA, mitochondrial rRNA, and chloroplast rRNA.

Wide Range of Input Compatibility

1 µg - 5 µg total RNA.

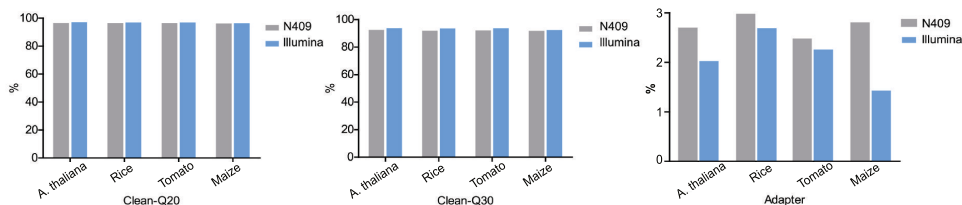
Easy & Fast Procedures

Using with #NR604, library preparation and quality control can be completed within one day.

Validation Data

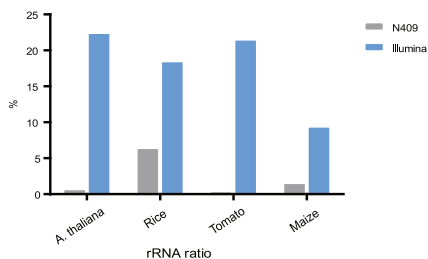
The transcriptome libraries of Arabidopsis thaliana, rice, tomato, and maize were prepared using Vazyme, #N409 and RNA-Seq library prep kit, respectively. The quality-controlled libraries were sequenced using an Illumina HiSeq X10 platform for PE150 sequencing. High-quality clean reads obtained from the raw data was analyzed.

1. Excellent Data Quality



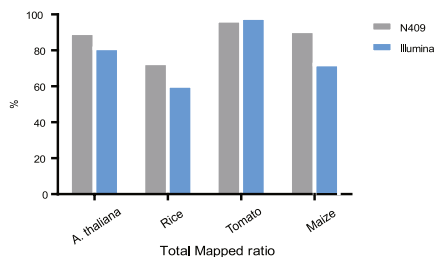
Compared with several similar kits on the market, Vazyme, #NR604 showed higher gene detection number.

2. High rRNA Removal Efficiency



For different species, N409 can effectively remove rRNA and minimize the waste of data caused by rRNA residues.

3. High Mapped Ratio



The data obtained by sequencing the library prepared using Vazyme, #N409 and RNA-Seq library prep kit showed high mapped ratio.

Library Prep for Epigenetics

Bisulfite Sequencing

EpiArt DNA Methylation Bisulfite Kit
 2 × EpiArt HS Taq Master Mix
 2 × EpiArt HS Taq Master Mix (Dye Plus)
 EpiArt DNA Methylation Library Kit

EM101
 EM201
 EM202
 NE101

CUT&Tag

Hyperactive pG-Tn5 Transposase for CUT&Tag
 Hyperactive pA-Tn5 Transposase for CUT&Tag
 Hyperactive pG-Tn5 Transposon for Illumina (4 μM)
 Hyperactive pA-Tn5 Transposon for Illumina (4 μM)
 Hyperactive In-Situ ChIP Library Prep Kit for Illumina(pG-Tn5)
 Hyperactive In-Situ ChIP Library Prep Kit for Illumina(pA-Tn5)

S602
 S603
 S612
 S613
 TD901
 TD902

CUT&RUN

Hyperactive pA-MNase for CUT&RUN

S701

Methylation Bisulfite Kit



→ EpiArt DNA Methylation Bisulfite Kit (#EM101)

Short Operating Time

Combines DNA denaturation and bisulfite conversion into one step, and the conversion reaction time is only 140 min.

High Conversion Efficiency

Compatible with 100 pg-2 µg of input genomic DNA. The recovery efficiency is ≥ 80% and the unmethylated cytosine conversion efficiency is ≥ 99%.

Wide Range of Compatibility

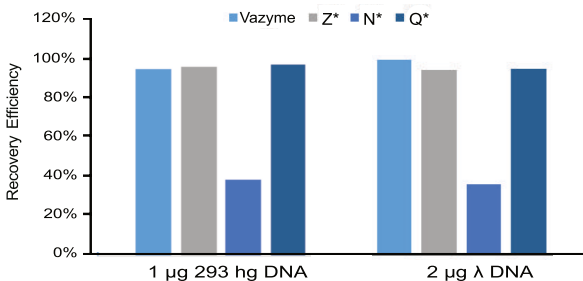
Efficient conversion of DNA, cfDNA, and purified PCR products from animals, plants, and microorganisms.

Suitable for Many Downstream Applications

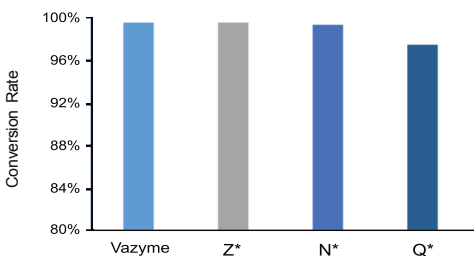
The bisulfite converted product is suitable for downstream applications such as PCR amplification and NGS sequencing.

Validation Data

1. High Recovery Efficiency

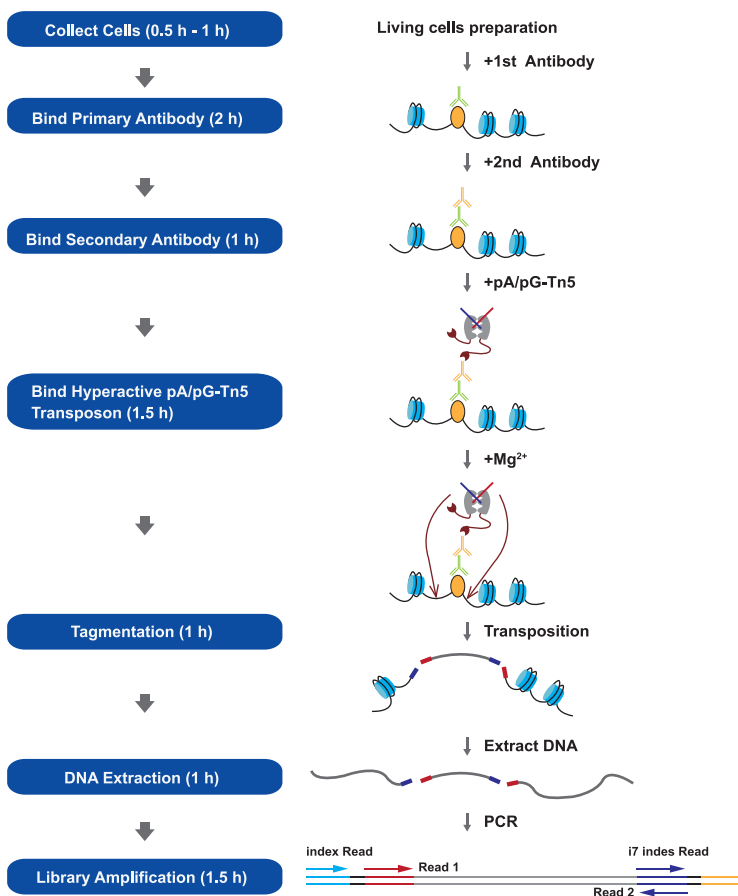


2. High Conversion Efficiency



CUT&Tag

Cleavage Under Targets and Tagmentation (CUT&Tag) is a specific technology designed for the study of protein-genomic interaction that can seamlessly replace the traditional ChIP-Seq. Compared with ChIP-Seq, the CUT&Tag has several significant advantages, including high signal-to-noise ratio, excellent repeatability, short operation time (generate sequencing-ready libraries beginning with live cells within one day), and low cell input. This technology will facilitate the research in epigenetics, tumors, and stem cells.



Workflow of CUT&Tag



Hyperactive In-Situ ChIP Library Prep Kit for Illumina (pG-Tn5/pA-Tn5) (#TD901 / #TD902)

Easy to Operate

DNA fragmentation and adapters ligation can be achieved in one step.

Low Input Amount

Starting from 60 cells or even single cells.

Hyperactive

Protein G/A & Tn5 transposase with hyper activity results in high efficiency of DNA fragmentation.

High S/N Ratio

Higher signal-to-noise ratio than ChIP-Seq.

Excellent Reproducibility

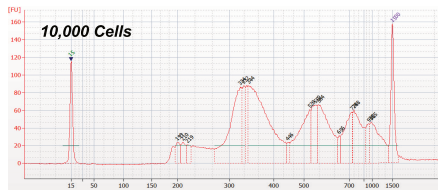
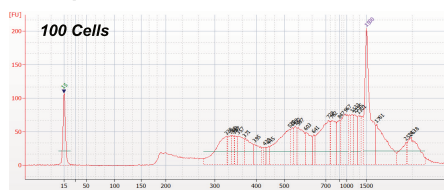
Good reproducibility among sample replicates.

Time-Saving

Sequencing-ready libraries can be generated from live cells within **only 9 hours**.

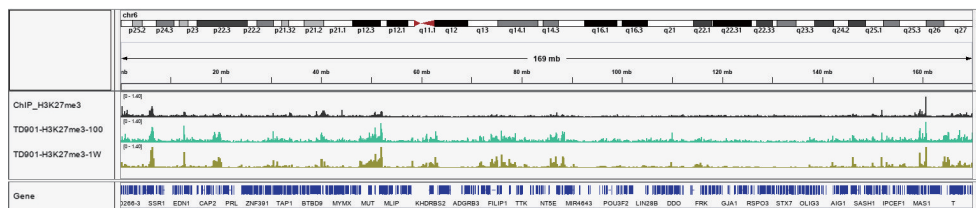
Validation Data

1. Low Input Amount of Cells



Size distribution of CUT&Tag library fragments prepared from 100 cells (left) or 10,000 cells (right). One hundred or 10,000 cells of HEK293 was used for CUT&Tag and library preparation using **Vazyme, #TD901**, respectively. The final concentration of pG-Tn5 transposon was 0.04 μ M. The 1st antibody was H3K27me3 (CST, #9733), the 2nd antibody was Goat anti Rabbit (Bioworld, #BS13271). Size distribution of library fragments was detected using an Agilent 2100 Bioanalyzer. The results showed that, using **#TD901**, CUT&Tag libraries were prepared successfully from both 100 and 10,000 cells.

2. High Signal-to-Noise Ratio

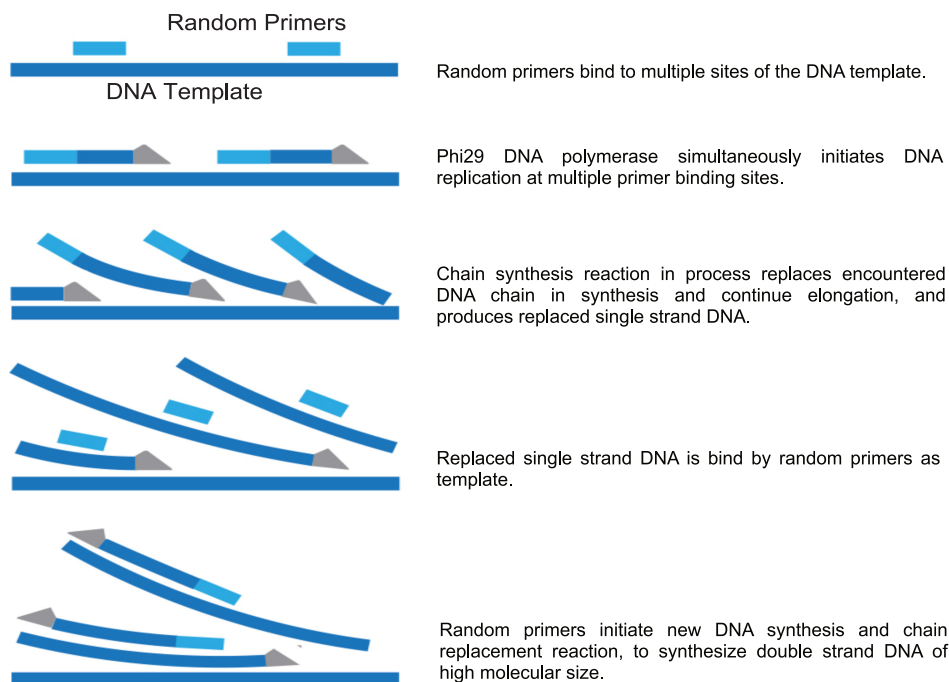


Peak enrichment of libraries that compared with different methods and different cell inputs. (The 1st row - ChIP-Seq; the 2nd row - CUT&Tag from 100 cells using **#TD901**; the 3rd row - CUT&Tag from 10,000 cells using **#TD901**). CUT&Tag libraries were sequenced on a HiSeq X10 PE150, respectively. The raw data was filtered and then subjected to Peak Calling analysis. The results showed that the peak enrichment of CUT&Tag library from 100 cells is similar to that of 10,000 cells, and the signal-to-noise ratio (S/N) of both CUT&Tag libraries was significantly better than that of traditional ChIP-Seq library.



Single Cell Whole Genome Amplification (WGA) Kit

Discover-sc Single Cell WGA Kit (#N603) is an isothermal amplification system based on the multiple displacement amplification (MDA) using Phi29. The Phi29 DNA polymerase is cloned from phage and has extremely strong strand-displacement activity and can be used for in vitro MDA polymerization at a constant temperature, with no need for thermal cycling. One single polymerization reaction using Phi29 can achieve continuous polymerization extension up to 100 kb. This kit is suitable for the whole genome amplification (WGA) from a single cell, small amount of tissues, or even trace purified genomic DNA, to obtain a large amount of genomic DNA with high coverage.





→ Discover-sc Single Cell WGA Kit (#N603)

Wide Sample Compatibility

Applicable to animal and plant cells, bacteria or blastomeres, trophectoderm cells, sperm and other samples.

High Coverage

Single cell genome can reach more than 95% coverage after amplification.

High Uniformity

Chromosome copy number variation analysis from > 1 Mb of the read depth.

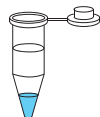
High Fidelity

The fidelity of Phi29 DNA polymerase is 1000 folds than Taq polymerase.

Easy Operation

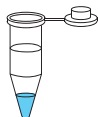
React at single tube, operate within 10 min, not required for purification of amplification product.

Cell Lysis

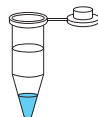


10 min

Termination of Lysis



Isothermal Amplification



Analysis

2 hr

Step 1: Cell Lysis

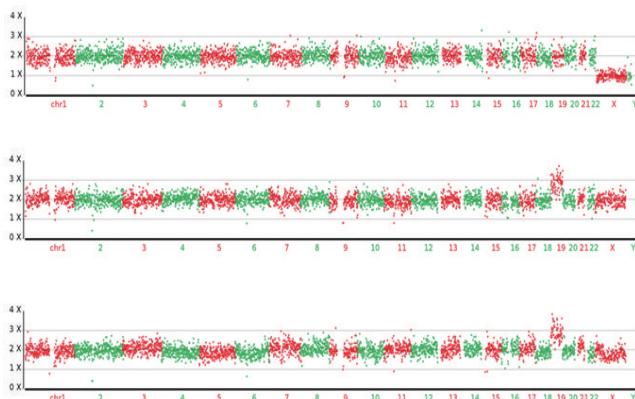
1. Prepare a mixture of cell lysis buffer.
2. Add the cell to lysis buffer.
3. Incubate at 65°C for 10 min.

Step 2: Termination of Lysis

Add a neutral solution to stop the reaction from previous step.

Step 3: MDA Amplification

1. Prepare the mixture of amplification.
2. Add the mixture of amplification to the system from Step 2.
3. Amplify at 30°C for 2 hours.



Scatter plots of whole genome copy numbers.

Single cell (using trophectoderm cells and sperm as a template, respectively) genomic amplification was performed using Vazyme #N603. Then libraries were prepared for sequencing, which was performed in Illumina MiniSeq after pooling according to the effective concentration and the 0.01X of sequencing depth. The data showed that the distribution of the reads was uniform in all parts of the genome, indicating that the amplification uniformity of Vazyme #N603 was excellent.

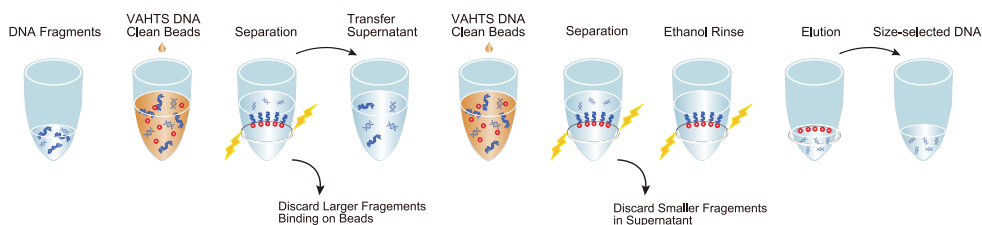


Beads



→ VAHTS DNA Clean Beads (#N411)

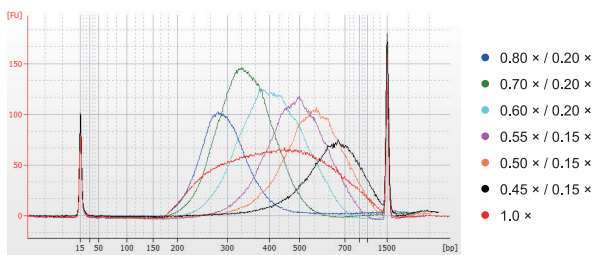
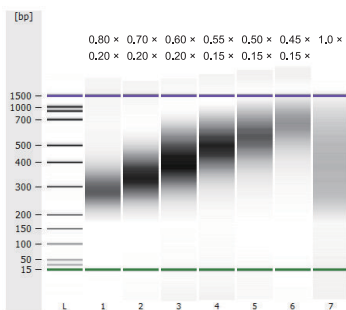
- ♥ Applicable for DNA purification and size selection in NGS library preparation.
- ♥ Compatible with almost all library prep protocols provided by all manufacturers.



Validation Data

A DNA library (200 bp - 1,500 bp) was prepared using TruePrep DNA Library Prep Kit V2 for Illumina (**Vazyme, #TD501**). Size-selection was performed using VAHTS DNA Clean Beads (Vazyme, #N411) according to the different parameters in the following table, respectively. Size distribution was detected using an Agilent 2100 Bioanalyzer.

Ratio of 1st-round (Beads: DNA)	0.80 ×	0.70 ×	0.60 ×	0.55 ×	0.50 ×	0.45 ×	1.0 ×
Ratio of 2nd-round (Beads: DNA)	0.20 ×	0.20 ×	0.20 ×	0.15 ×	0.15 ×	0.15 ×	
Average Size (bp)	300	350	400	500	600	700	200-1500





Library Quantification



➔ Equalbit 1 × dsDNA HS Assay Kit (#EQ121)

Easy to Use

Premixed reagent that is ready-to-use.

Hyper Sensitive

Accurate quantification of 0.2 ng- 100 ng of dsDNA.

Super Specificity

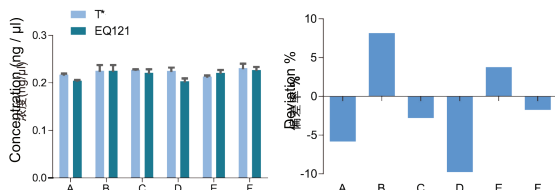
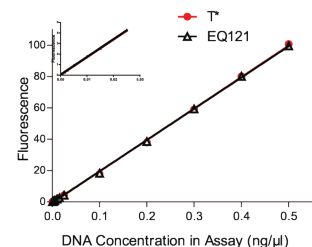
Excellent specificity to dsDNA.

Excellent Stability

Strictly quality controlled standards, ensuring batch-to-batch consistency.

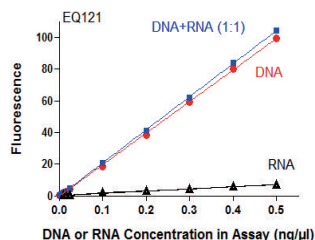
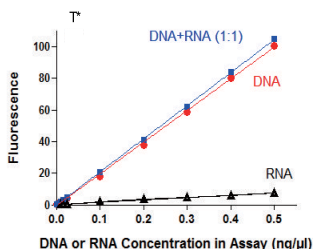
Validation Data

1. Hyper Sensitive



2. Super Specificity to dsDNA

Samples of dsDNA, RNA, and DNA + RNA (1:1) were tested with Vazyme, #EQ121 and a similar reagent from vendor T*. The results showed that Similar to products from T*, Vazyme, #EQ121 specifically binds to dsDNA, even in the presence of RNA.



Cell-free DNA (cfDNA) Preservation and Isolation



→ VAHTS Blood Collection tube for cell-free DNA preservation (#N901)

- ♥ Preserve cfDNA in whole blood for up to **14 days** at room temperature without genomic DNA release or DNase-induced degradation.
- ♥ Excellent **tolerance to temperature & shaking** benefits the storage and long-distance transport of blood samples.
- ♥ The extracted cfDNA can be used for library preparation with **excellent efficiency and fidelity**.
- ♥ User-friendly label design and **flexible volume** for blood collection.



→ VAHTS Serum / Plasma Circulating DNA Kit (#N902)

cfDNA with Excellent Purity

Accurate product concentration determination, unaffected by Carrier RNA.

cfDNA with High Coverage

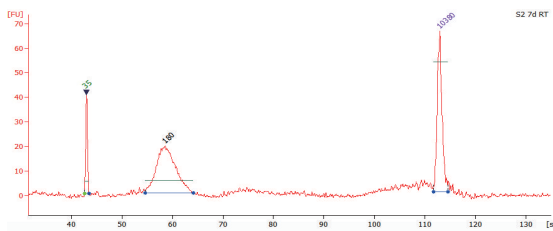
The extracted cfDNA has no GC preference and is suitable for sequencing (i.e. NGS).

Compatible with Automatic Procedures

Suitable for manual extraction procedures and most automatic nucleic acid extraction instruments.

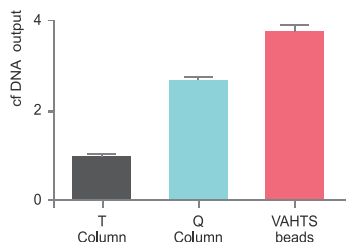
Validation Data

1. Products with High Purity



Electropherogram of separated cfDNA in Agilent 2100 analyzer.

2. High Yield



Actual yield of cfDNA detected by qPCR.



TruePrep DNA Library Prep Kits for Illumina®

Wang J, Wang L, *et al.* Asymmetric Expression of LincGET Biases Cell Fate in Two-Cell Mouse Embryos. *Cell*, 2018, 175(7):18871-1901. (Vazyme #TD502)

Han X, Wang R, *et al.* Mapping the Mouse Cell Atlas by Microwell-Seq. *Cell*, 2018, 172(5):1091-107 (Vazyme #TD513)

Zhang L, Yu X, *et al.* Lineage tracking reveals dynamic relationships of T cells in colorectal cancer. *Nature*, 2018, 564(7735):268-72. (Vazyme #TD502)

Wu J, Xu J, *et al.* Chromatin analysis in human early development reveals epigenetic transition during ZGA. *Nature*, 2018, 557(7704):256-60 (Vazyme, #TD502)

Zheng C, Zheng L, *et al.* Landscape of Infiltrating T Cells in Liver Cancer Revealed by Single-Cell Sequencing. *Cell*, 2017, 169(7):1342-56 (Vazyme, #TD503)

Huang X, Yang S, *et al.* Genomic architecture of heterosis for yield traits in rice. *Nature*, 2016, 537(7622):629-33. (Vazyme, #TD501)

Wu J, Huang B, *et al.* The landscape of accessible chromatin in mammalian preimplantation embryos. *Nature*, 2016, 534(7609):652-7. (Vazyme, #TD501)

Guo X, Zhang Y, *et al.* Global characterization of T cells in non-small-cell lung cancer by single-cell sequencing. *Nature Medicine*, 2018, 24(7):978-85. (Vazyme, #TD501)

Liu Z, Yan M, *et al.* Nucleoporin Seh1 Interacts with Olig2/Brd7 to Promote Oligodendrocyte Differentiation and Myelination. *Neuron*, 2019, pii: S0896-6273(19)30153-9. (Vazyme, #TD502)

Li X, Meng D, *et al.* Single nucleus sequencing reveals spermatid chromosome fragmentation as a possible cause of maize haploid induction. *Nature Communications*, 2017, 8(1):991. (Vazyme, #TD501, #TD503)

Yang L, Wang W, *et al.* A single-cell transcriptomic analysis reveals precise pathways and regulatory mechanisms underlying hepatoblast differentiation. *Hepatology*, 2017, 66(5):1387-401. (Vazyme, #TD502, #411)



VAHTS Universal DNA Library Prep Kits for Illumina®

Zhang M, Dong Y, *et al.* Transcription factor Hoxb5 reprograms B cells into functional T lymphocytes. *Nature Immunology*, 2018, 19(3):279-90. (Vazyme, #ND604, #N601)

Cao S, Yu S, *et al.* Chromatin accessibility dynamics during chemical induction of pluripotency. *Cell Stem Cell*, 2018, 22(4): 529-42. (Vazyme, #ND102, #NQ101)



VAHTS Total RNA-seq (H/M/R) Library Prep Kit for Illumina®

He Y, Li X, *et al.* Transitory presence of myeloid-derived suppressor cells in neonates is critical for control of inflammation. *Nature Medicine*, 2018, 24(2):224-31. (Vazyme, #NR603)



VAHTS mRNA-seq Library Prep Kits for Illumina®

Tian X, He G, et al. *Cryptococcus neoformans* sexual reproduction is controlled by a quorum sensing peptide. *Nature Microbiology*, 2018, 3(6):698-707. (Vazyme, #NR601)

Han X, Chen H, et al. Mapping human pluripotent stem cell differentiation pathways using high throughput single-cell RNA-sequencing. *Genome Biology*, 2018, 19(1):47. (Vazyme, #NR601)

Qin X, Liu S, et al. Heterotrimeric G Stimulatory Protein α Subunit Is Required for Intestinal Smooth Muscle Contraction in Mice. *Gastroenterology*, 2017, 152(5):1114-25. (Vazyme, #NR601)

Shen C, Wang J, et al. Transcriptome Analysis of Differentially Expressed Genes Induced by Low and High Potassium Levels Provides Insight into Fruit Sugar Metabolism of Pear. *Frontiers in Plant Science*, 2017, 8:938. (Vazyme, #NR601)



VAHTS Stranded mRNA-seq Library Prep Kit for Illumina®

Song L, Ma Q, et al. Molecular Link between Leaf Coloration and Gene Expression of Flavonoid and Carotenoid Biosynthesis in *Camellia sinensis* Cultivar 'Huangjinya'. *Frontiers in Plant Science*, 2017, 8:803. (Vazyme, #NR602)



Discover-sc Single Cell Kit

Zhang M, Dong Y, et al. Transcription factor Hoxb5 reprograms B cells into functional T lymphocytes. *Nature Immunology*, 2018, 19(3):279-90. (Vazyme, #ND604, #N601)



VAHTS DNA Clean Beads

Yang L, Wang W, et al. A single-cell transcriptomic analysis reveals precise pathways and regulatory mechanisms underlying hepatoblast differentiation. *Hepatology*, 2017, 66(5):1387-401. (Vazyme, #TD502, #N411)

Wang Y, Zhang X, et al. Bisulfite-free, single base-resolution analysis of 5-hydroxymethylcytosine in genomic DNA by chemical-mediated mismatch. *Chemical Science*, 2018, 10(2): 447-52. (Vazyme, #N411)

Tao Z, Zhang X, et al. Analysis of long noncoding RNA and mRNA using RNA sequencing during the differentiation of intramuscular preadipocytes in chicken. *PLoS One*, 2017, 12(2):e0172389 (Vazyme, #N411)



VAHTS Library Quantification Kits for Illumina®

Cao S, Yu S, et al. Chromatin accessibility dynamics during chemical induction of pluripotency. *Cell Stem Cell*, 2018, 22(4):529-42. (Vazyme, #ND102, #NQ101)

Li D, Liu J, et al. Chromatin Accessibility Dynamics during iPSC Reprogramming. *Cell Stem Cell*, 2017, 21(6):819-33. (Vazyme, #NQ101)

Vazyme Online

For more information, please visit: www.vazyme.com



InnoVation in enzyme technology

lubio
science

Contact us for ordering or additional information

info@lubio.ch – www.lubio.ch

LubioScience GmbH – Baumackerstrasse 24 – 8050 Zürich – 041 417 02 80



Vazyme Biotech Co., Ltd.

Website: www.vazyme.com

Tel: +86-186-6167-852

Email: global@vazyme.com

Add: Bldg. C2, Red Maple Sci-Tech Park, Kechuang Rd., Nanjing, China

