

● ● TRANSGEN



TransNGS[®] Whole Transcriptome Amplification Kit

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TransNGS[®] Whole Transcriptome Amplification Kit (KC921)

Features

- Highly compatible with different cell types, suitable for low RNA content (such as immune cells).
- Highly compatible with different tissue types, suitable for tissues that are difficult to dissociate (such as brain tissue).
- High yield in single-cell library preparation, excellent peak shape and large number of genes detected effectively (FPKM>1).
- Short library preparation time, with a total duration of approximately 3 hours.
- The sample volume is up to 6 μ l, supporting the amplification of RNA at different concentrations or varying numbers of cells.

Range of application

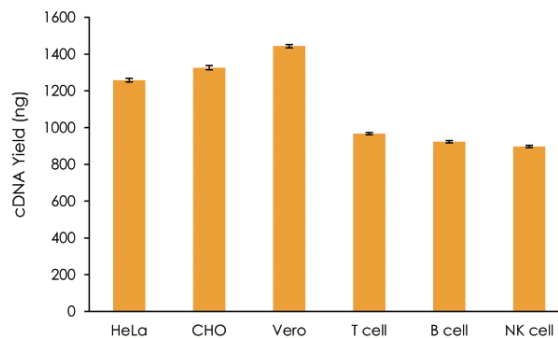
- 1-10⁵ mammalian cells or eukaryotic cells without cell walls (such as protoplasts).
- 10 pg-100 ng total RNA (including mRNA with poly(A) sequences)

Data

Applicable to a wide variety of sample types

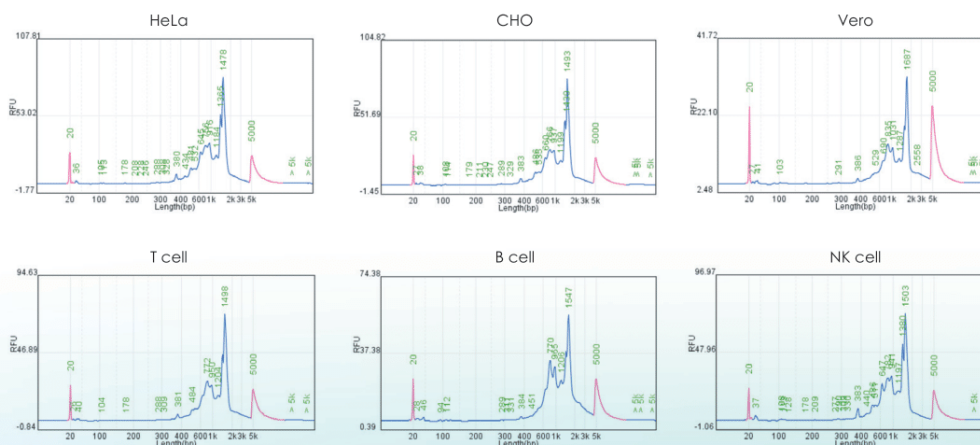
High Library Yield

Using KC921 to construct full-length cDNA libraries from six different types of single cells (with an input of 100 cells), the results show that KC921 is suitable for various cell types, with library yields exceeding 800 ng.



Peak Pattern

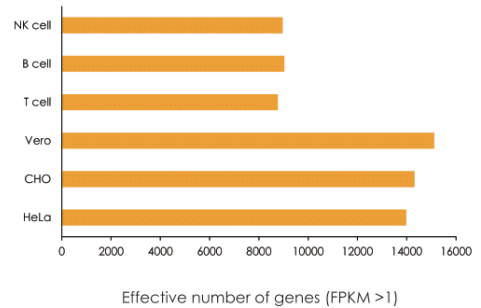
After purification, library peak profiles are analyzed using Qsep100. The results show that the library peak range covers 200-10,000 bp, the cDNA product sizes meet expectations and no abnormal peaks are observed.



High Sequencing Data Quality

The library results using Tn5 transposase enzyme show that the sequencing data quality is high across all cell types, with high gene coverage and a high number of effectively detected genes (FPKM >1)

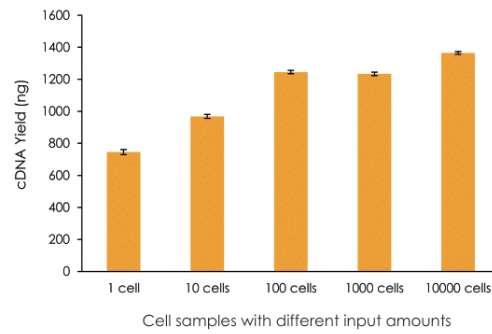
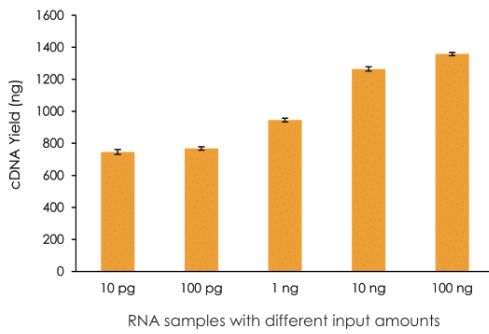
Cell Type	Q30	Total mapped	GC	Exon
HeLa	95.83%	97.98%	50.46%	79.91%
CHO	94.91%	97.54%	50.57%	81.61%
Vero	92.65%	98.10%	50.09%	78.57%
B cell	93.89%	97.67%	49.78%	76.37%
T cell	93.95%	97.77%	50.14%	77.63%
NK cell	93.92%	97.58%	49.39%	75.99%



Wide Sample Input Range

Library Yield

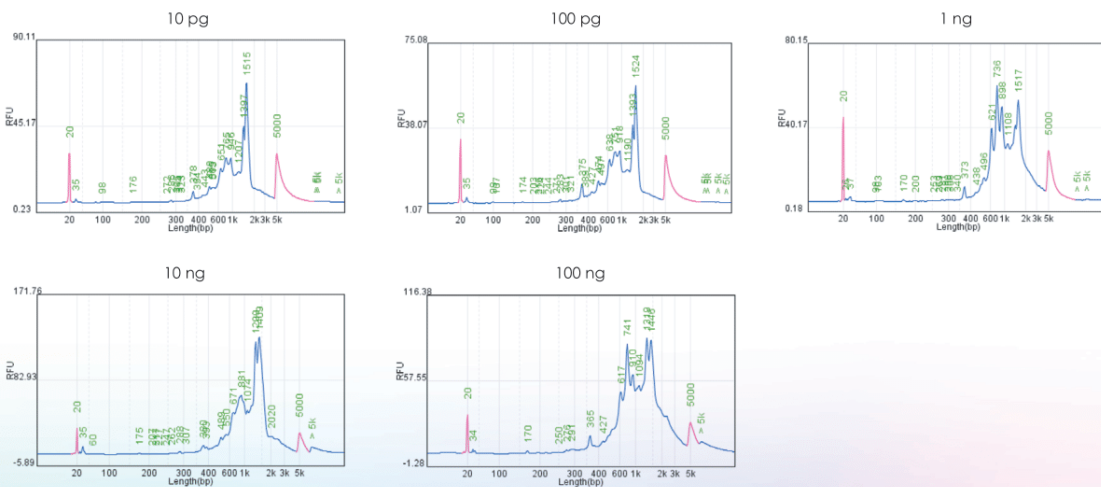
Full-length cDNA amplification is performed using KC921 on RNA and cell samples with different input. After purification, library concentration is measured using Qubit. The results show that high library yields are achieved across various input, demonstrating the broad sample input compatibility of KC921.



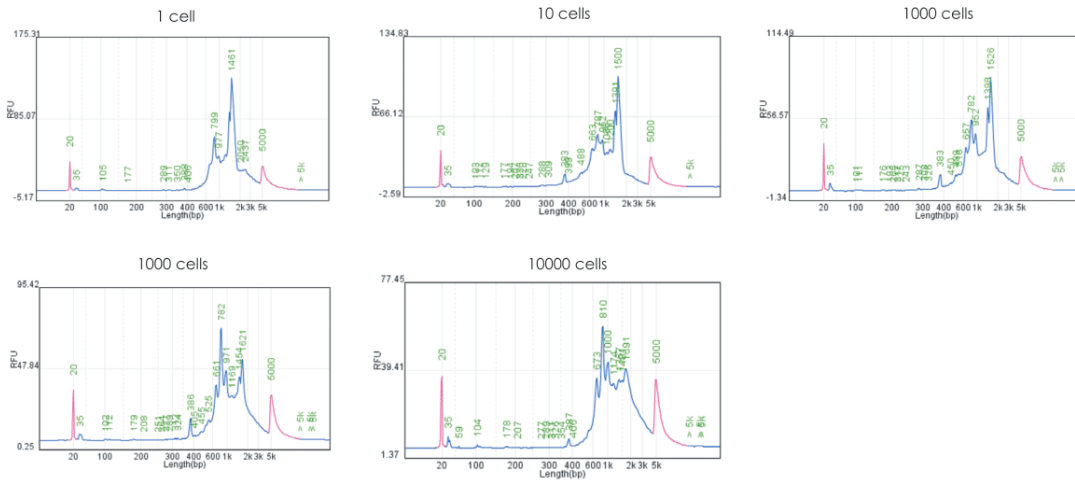
Great Library Peak Profile

Full-length cDNA amplification is performed using KC921 on RNA and cell samples with different input. After purification, library peak profiles are analyzed using Qsep100. The results show that the library peak range covers 200-10,000 bp, the cDNA product sizes meet expectations and no abnormal peaks are observed.

With different RNA samples input amounts



With different cell samples input amounts

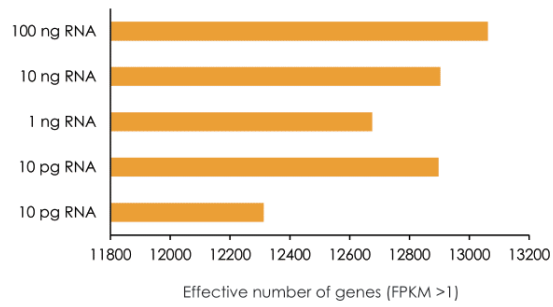


High Sequencing Data Quality

Full-length cDNA amplification is performed using KC921 on RNA and cell samples with different input, followed by library preparation using Tn5 transposase enzyme. The results show that KC921 products perform excellently across different input amounts in terms of Q30, total alignment rate and average number of effectively detected genes (gene FPKM >1), demonstrating high library construction efficiency.

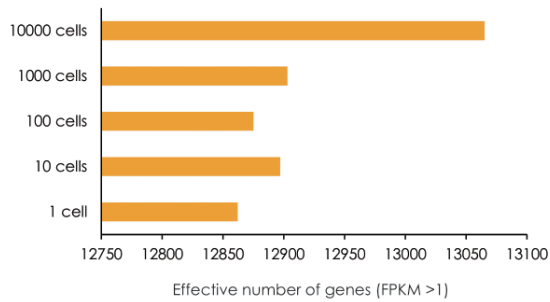
with different RNA samples input

样品投入量	Q30	Total mapped
10 pg RNA	95.63%	97.64%
100 pg RNA	95.91%	97.58%
1 ng RNA	95.78%	98.23%
10 ng RNA	95.89%	97.96%
100 ng RNA	95.95%	98.07%



with different cell samples input

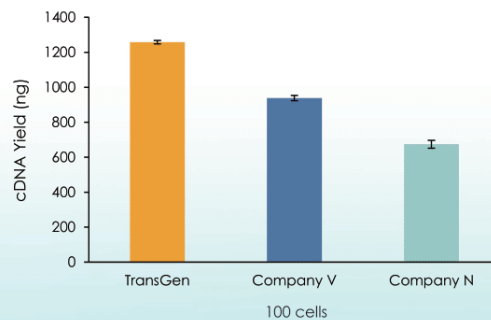
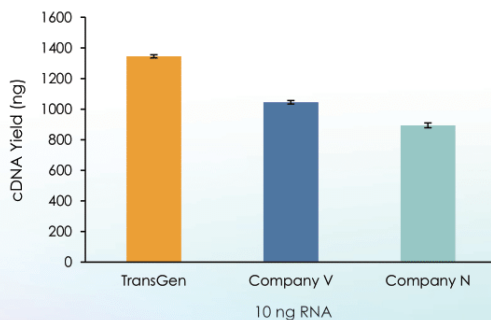
样品投入量	Q30	Total mapped
1 cell	94.76%	98.42%
10 cells	95.08%	98.16%
100 cells	95.23%	98.05%
1000 cells	95.21%	98.22%
10000 cells	95.13%	98.65%



Comparison with Competitors

Higher Library Yield

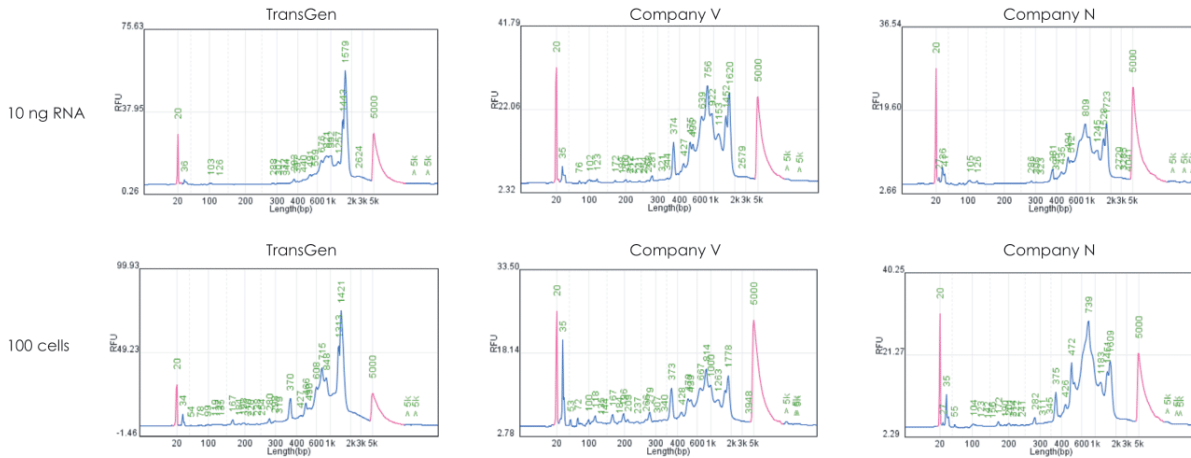
Full-length cDNA amplification is performed on 10 ng RNA and 100 HeLa cell samples using TransGen, Company V and Company N products. After purification, library concentration is measured using Qubit. The results show that TransGen product (KC921) consistently achieves higher library yields compared to competitor products.



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Better Library Peak Profile

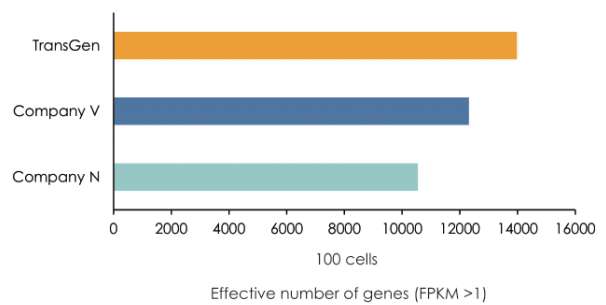
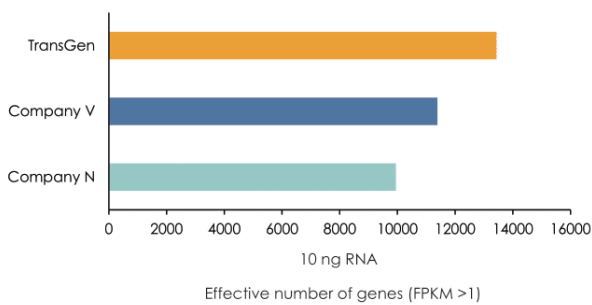
Full-length cDNA amplification is performed on 10 ng RNA and 100 HeLa cell samples using TransGen, Company V and Company N products. After purification, library peak profiles are analyzed using Qsep100. The results show that the library peak range covers 200-10,000 bp, the cDNA product sizes meet expectations and no abnormal peaks are observed.



Higher Sequencing Data Quality

Full-length cDNA amplification is performed on 10 ng RNA and 100 HeLa cell samples using TransGen, Company V and Company N products, followed by library preparation using Tn5 transposase enzyme. The results show that TransGen product (KC921) perform excellently in terms of Q30, total alignment rate and average number of effectively detected genes (gene FPKM >1), demonstrating high library construction efficiency.

Sample input	Product	Q30	Total mapped	GC	Exon
10 ng RNA	TransGen	93.65%	98.21%	50.65%	98.21%
	Company V	92.31%	97.07%	50.55%	79.76%
	Company N	90.43%	95.54%	50.57%	75.87%
100 cells	TransGen	93.44%	97.67%	49.80%	80.03%
	Company V	91.88%	96.84%	49.93%	78.35%
	Company N	90.50%	95.23%	50.64%	77.26%



Product Information

Name	Cat. No.	Specification
TransNGS® Whole Transcriptome Amplification Kit	KC921-01	12 rxns
	KC921-02	96 rxns

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Categories:

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- Next Generation Sequencing (NGS)
- Plant tissue culture
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Search by selecting either RUO or IVD products

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Search result : 39126007 product found

Cat#	Description	Cond.
NB-45-00042-100	Super Ni-NTA Agarose Resin	100ml
NB-45-00042-25	Super Ni-NTA Agarose Resin	25ml
NB-45-00058-4	Proteus 1 -step Batch Mini Spin Column Pack	40pc
NB-12-6001-3	NeoLine pipette 2-20 µl	1unit
NB-12-0023C	Mini Centrifuge N500C @10,000rpm (Including 6x1.5/2.0ml angle rotor)	1pcs
NB-03-0160	Proteinase K (Powder)	100mg
NB-60-0001	NeoPrep mini	50columns
NB-12-8001-19	Combs for NeoPRO4 mini (1.5mm, 15 wells)	5pieces
NB-12-8001-20	Spacer glasses flat for NeoPRO4 mini (0.75mm, 100*83mm)	5pieces
NB-12-8001-04	Short glasses flat for NeoPRO4 mini (1.0mm, 100*73mm)	10pieces

“Remember, if you ever get lost or have questions, don't hesitate to reach out to our customer support team. They're here to help you address any concerns you may have.”

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