

● ● TRANSGEN



TransNGS[®] Single Cell Full Length cDNA Synthesis & Amplification Kit

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TransNGS[®] Single Cell Full Length cDNA Synthesis & Amplification Kit (KC901)

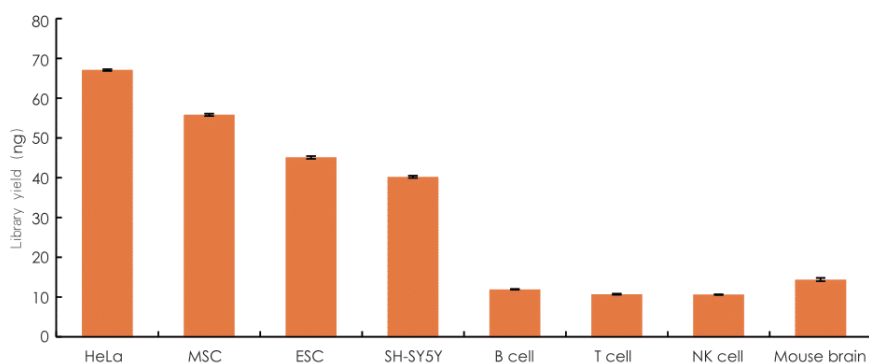
Features

- Highly compatible for different cell types, suitable for low RNA content (such as immune cells).
- Highly compatible for different tissue types, suitable for tissues that are difficult to dissociate (such as brain tissue).
- Short library preparation time, with a total duration of approximately 4 hours.
- High yield in single-cell library preparation, excellent peak shape, and large number of genes detected effectively (FPKM>1).

Data

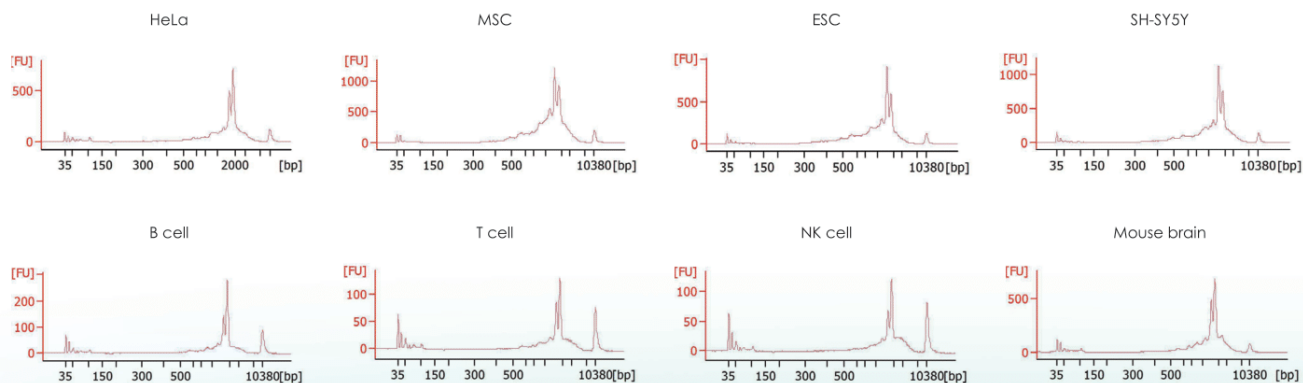
Library yield

Using TransGen products to construct full-length cDNA libraries for 8 different types of single cells, the results showed that the yield of the single-cell libraries can reach 10 - 60 ng.



Peak pattern

Using TransGen products to construct full-length cDNA libraries for 8 different types of single cells, the results showed that the library peak is high and wide, indicating high library construction efficiency.



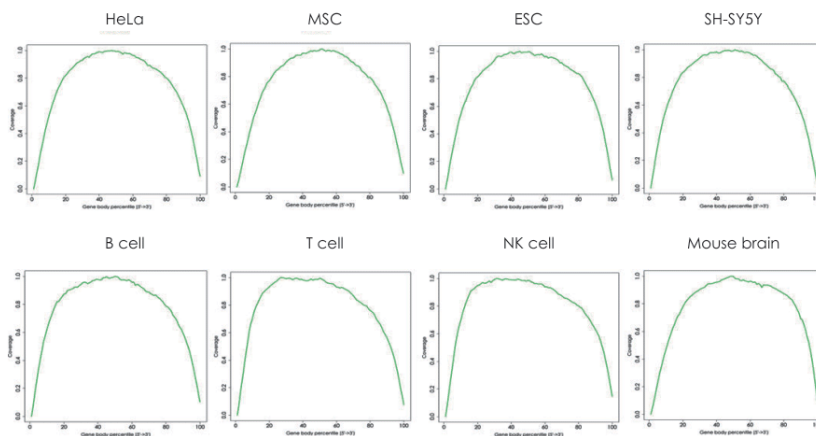
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Sequencing data quality

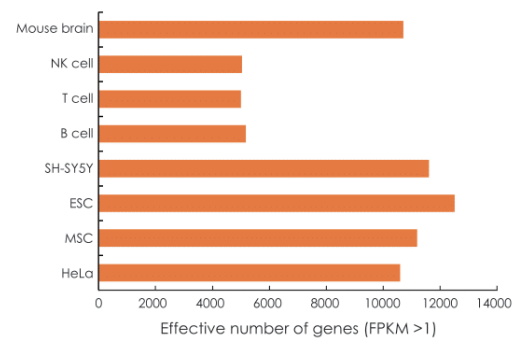
Using TransGen products to amplify full-length cDNA from 8 different types of single cells, taking 1 ng of full-length product from each for Tn5 library construction, the results showed that each single-cell library has high sequencing data quality, high gene coverage, and a high number of detected effective genes.

Cell Type	Q30	Total mapped	GC	Exon
HeLa	93.79%	97.78%	50.40%	59.91%
MSC	92.91%	97.94%	51.51%	59.61%
ESC	92.74%	98.00%	50.07%	55.57%
SH-SY5Y	92.36%	98%	50.78%	51.79%
B cell	93.69%	97.77%	48.76%	50.37%
T cell	93.92%	97.75%	49.14%	48.63%
NK cell	93.72%	97.55%	48.39%	52.99%
Mouse brain	93.46%	95.74%	50.35%	76.48%

Gene coverage level



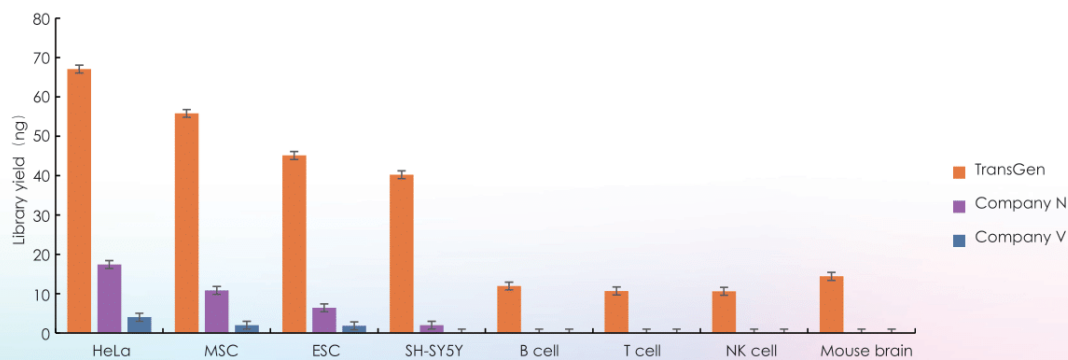
Effective number of gene detection (FPKM>1)



Comparison with competitive products

Library yield

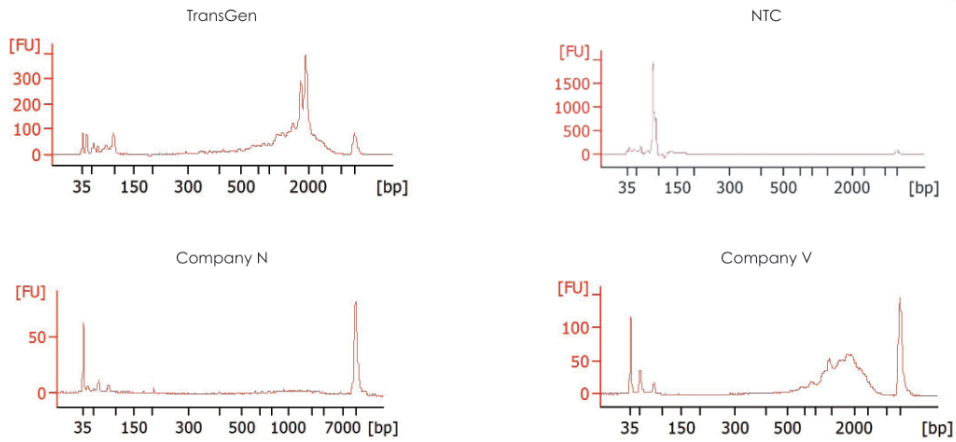
Using TransGen, Company N, and Company V products to construct full-length cDNA libraries for 8 different types of single cells.



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Peak pattern

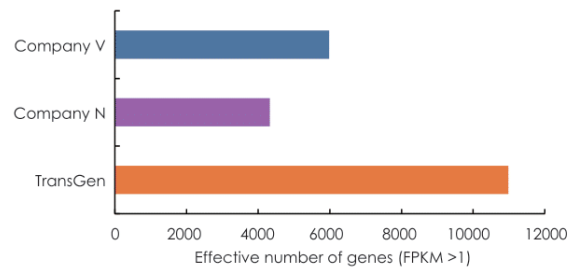
Using TransGen, Company N, and Company V products to construct full-length cDNA libraries for HeLa cells, the results show that the peak of the TransGen product library is high and wide, indicating high library construction efficiency.



Sequencing data quality

Using TransGen, Company N, and Company V products to construct full-length cDNA amplification for HeLa cells, and construct the libraries using 1 ng of product by Tn5 transposon.

Sample	Clean data	Total mapped	GC%
HeLa-TransGen	62.31%	97.35%	50.22%
HeLa-Company V	58.94%	97.28%	45.52%
HeLa-Company N	15.34%	78.07%	47.84%



Product Information

Name	Cat. No.	Specification
TransNGS® Single Cell Full Length cDNA Synthesis&Amplification Kit	KC901-01	12 rxns
	KC901-02	24 rxns
	KC901-03	96 rxns

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