



CUT & Tag

CUT&Tag Library Prep Kit

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TransNGS[®] CUT&Tag Library Prep Kit for Illumina[®] CUT&Tag (KP172)

Features

- Short operation time, library preparation can be completed within 5.5 h.
- Sequencing data with high quality: High yield, good library peak pattern.
- Accurate and reliable sequencing data: high proportion of clean data, more stable mapping rate, accurate and valid peak positions.
- Antibody with good compatibility and high affinity.
- Wide range of cell inputs: Applicable to the library preparation with 10^5 - 10^2 mammalian cells or processed cell nucleus, as well as eukaryotic cells without cell wall structures (such as plant cell protoplasts, etc.)

Data

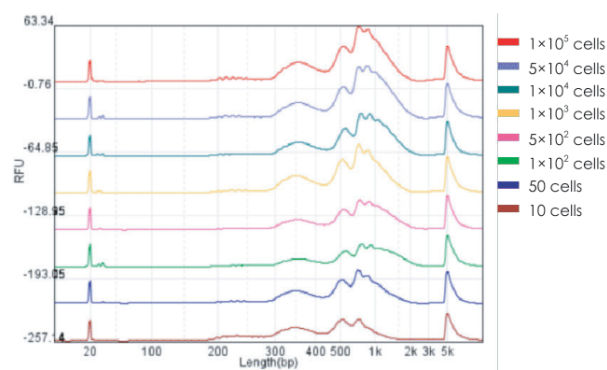
Library preparation with different cell inputs

TransGen product was used to perform CUT&Tag experiments with CTCF antibodies on 293T cells with different inputs. The results showed that the library yield of TransGen product was high, and the library peak pattern and peak position were basically consistent under different cell inputs, and it was compatible with library preparation with low cell input (10 cells).

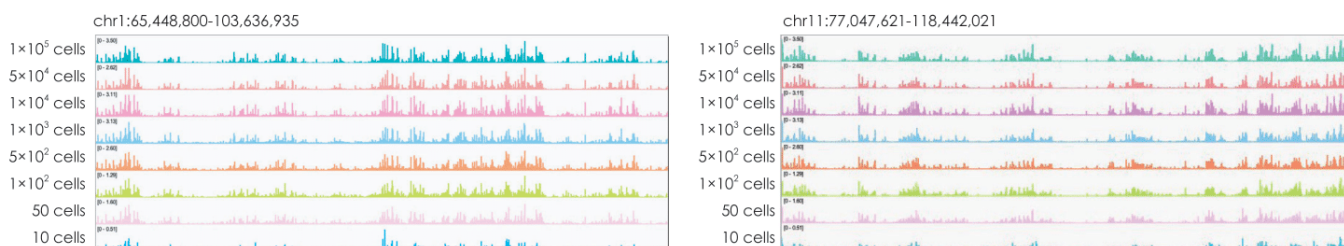
Library yield

Cell Input	Cycles	Library Yield(ng)
1×10^5	11	2360
5×10^4	12	3896
1×10^4	14	4400
1×10^3	17	3568
5×10^2	18	2796
1×10^2	19	1048
50	21	2256
10	25	3780

Library peak pattern



Accurate and valid peak positions



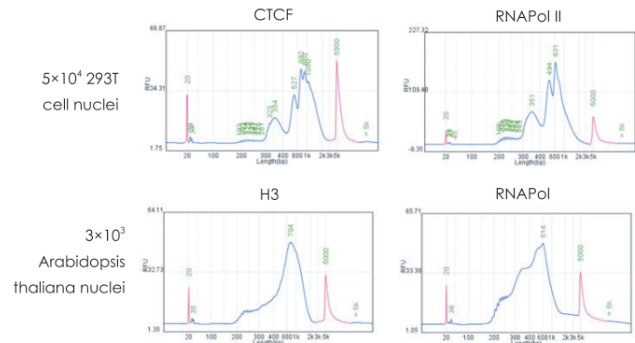
Library preparation of different cell nucleus

TransGen product was used to perform CUT&Tag experiments with different antibodies on 293T cell nuclei and Arabidopsis thaliana nuclei. The results showed that TransGen product have high library yield and standard library peak pattern, which is suitable for the library preparation of animal and plant cell nuclei.

Library yield

Cell Input	Antibody	Cycles	Library Yield(ng)
5×10 ⁴ 293T cell nuclei	CTCF	12	2120
	RNAPol II	12	3636
3×10 ³ Arabidopsis thaliana nuclei	H3	15	3240
	RNAPol	15	5400

Library peak pattern



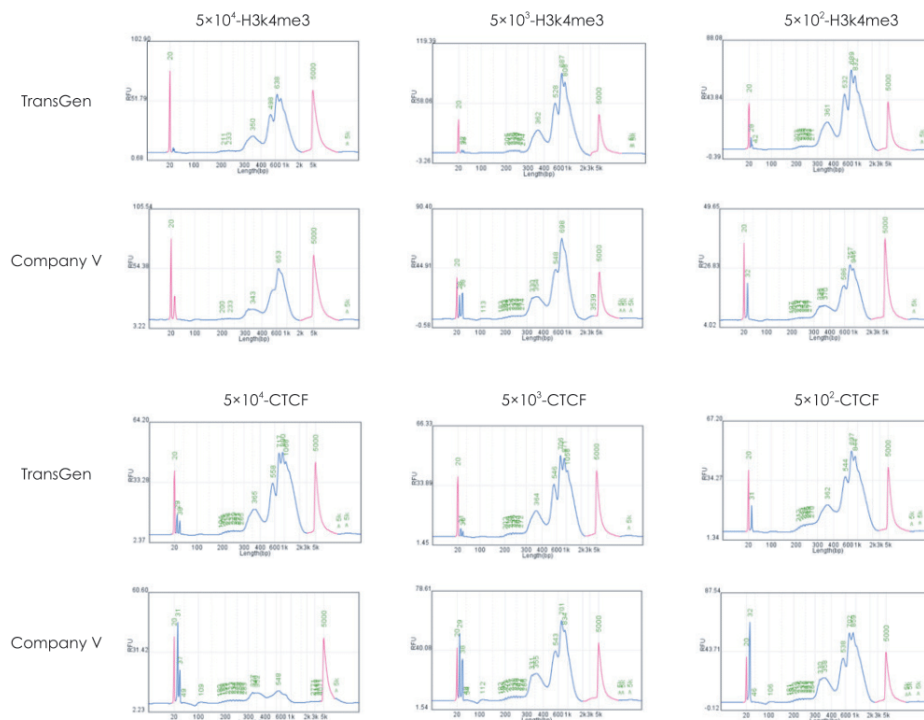
Comparison with competitive product

TransGen and Company V products were used to perform CUT&Tag experiments with H3k4me3, CTCF antibodies, and RNAPol II antibodies on 293T cells of different inputs, and the library yield, library peak pattern, and sequencing results were compared. Compared with Company V, TransGen product has higher library yield, more standardized library peak pattern, and higher quality of sequencing data.

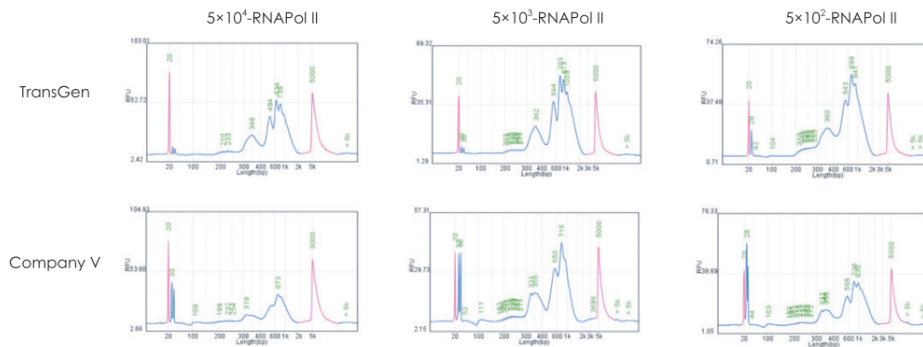
Library yield

Antibody	Cell Input	Library Yield(ng)	
		TransGen	Company V
H3k4me3	5×10 ⁴	1904	280
	5×10 ³	2200	436
	5×10 ²	836	376
CTCF	5×10 ⁴	656	532
	5×10 ³	1552	208
	5×10 ²	646	206
RNAPol II	5×10 ⁴	1240	100
	5×10 ³	1644	308
	5×10 ²	532	87.6

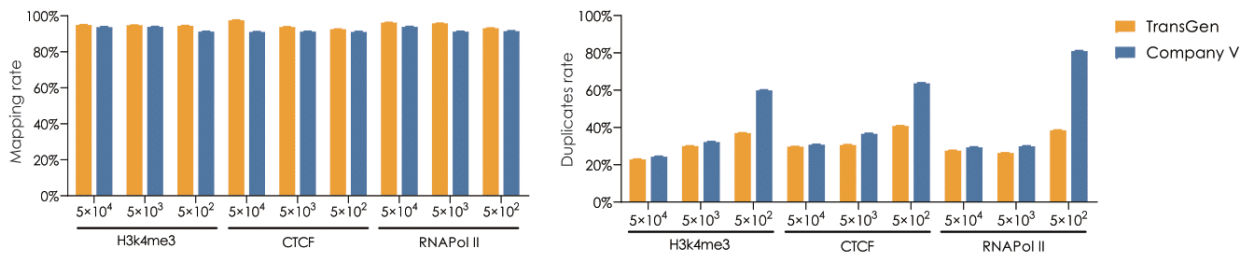
Library peak pattern



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Sequencing data



Accurate and valid peak positions

CUT&Tag libraries generated from different target proteins (CTCF, H3k4me3, RNAPol II) of 5x10⁴ 293T cells by using TransGen and Company V products, the peak positions of two different chromosome segments were displayed.



Peak comparison picture of DNA interaction regions of different target proteins

Product Information

Name	Cat. No.	Specification
TransNGS [®] CUT&Tag Library Prep Kit for Illumina [®]	KP172-01	12 rxns
	KP172-02	48 rxns

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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

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