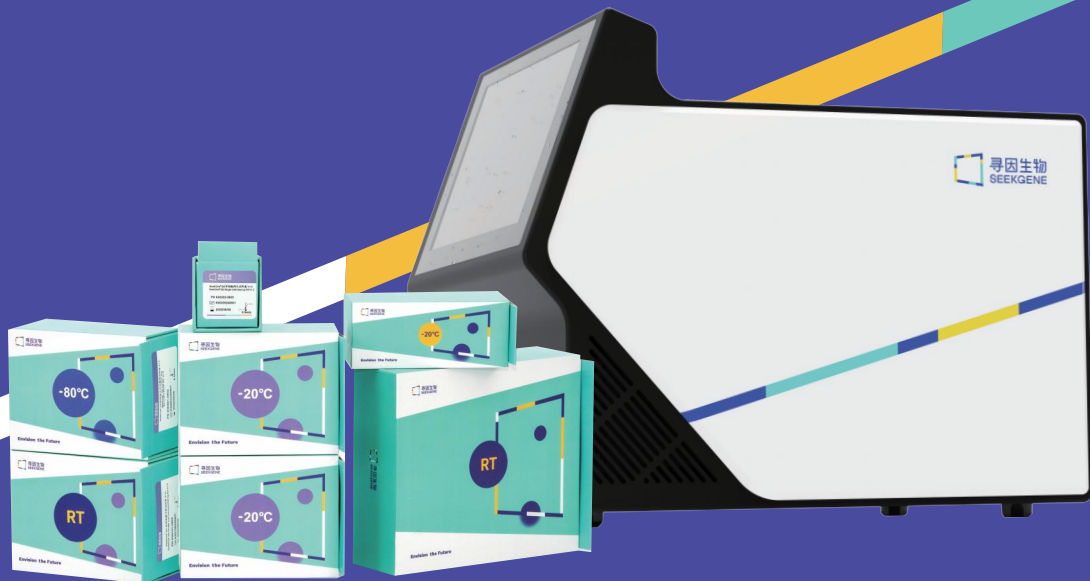


SeekOne™ DD Single Cell Multiome ATAC + RNA Technology

From Chromatin to RNA: One Cell, One Story



Envision the Future

What's the Principle Behind It?

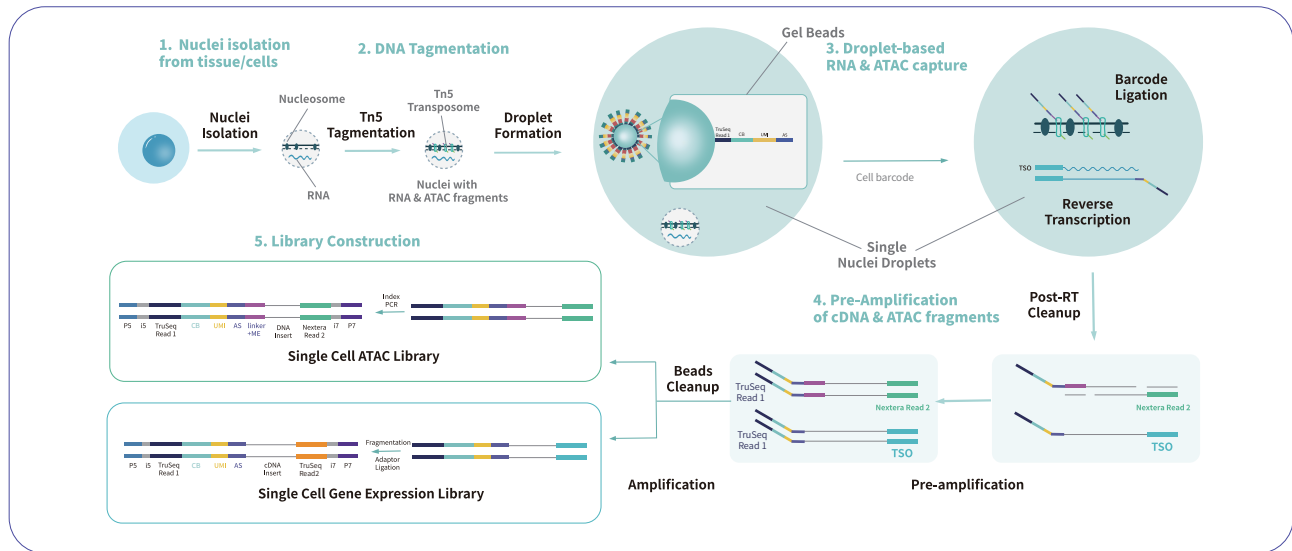


Figure 1. Principle and Workflow

Both ATAC and RNA information are captured using a versatile semi-random primer.

How Robust Is the Data Quality?

Species	Sample Type	Estimated Number of Cells	ATAC Median High-Quality Fragments per Cell	GEX Median Genes per Cell	TSS Enrichment Score	ATAC_Raw_Bases(Gb)	RNA_Raw_Bases(Gb)	ATAC_Fraction_of_High-Quality_Fragments_in_Cells	ATAC_Fraction_of_Transposition_Events_in_Peaks_in_Cells
Human	Melanoma	9996	15197	1827	5.2	245	70	78.9%	36.9%
	Eyeball	12145	6537	1258	10.8	120	100	60.0%	68.2%
	PBMC	10580	8976	2120	10.9	120	100	65.9%	66.5%
	Fetal Liver	11105	8106	1135	5.8	120	60	65.0%	35.6%
	Embryonic leg	10003	10240	2288	5.3	150	150	53.9%	34.2%
	Placenta	9629	6679	1604	8.2	100	80	61.8%	71.0%
	Placenta	15652	6188	1078	12.1	120	81	68.4%	74.3%
Mouse	Brain	13742	8389	2206	18.3	120	120	76.8%	67.3%
	Brain	15152	8865	2290	16.1	140	140	78.4%	66.7%
	Testis	15000	5595	1947	16.3	120	100	65.9%	70.8%
	Embryo	17149	8883	3099	14.7	150	150	53.5%	62.2%
	Cleft Lip and Palate	20752	6579	1554	10.3	180	110	67.5%	46.5%

Figure 2. Data performance

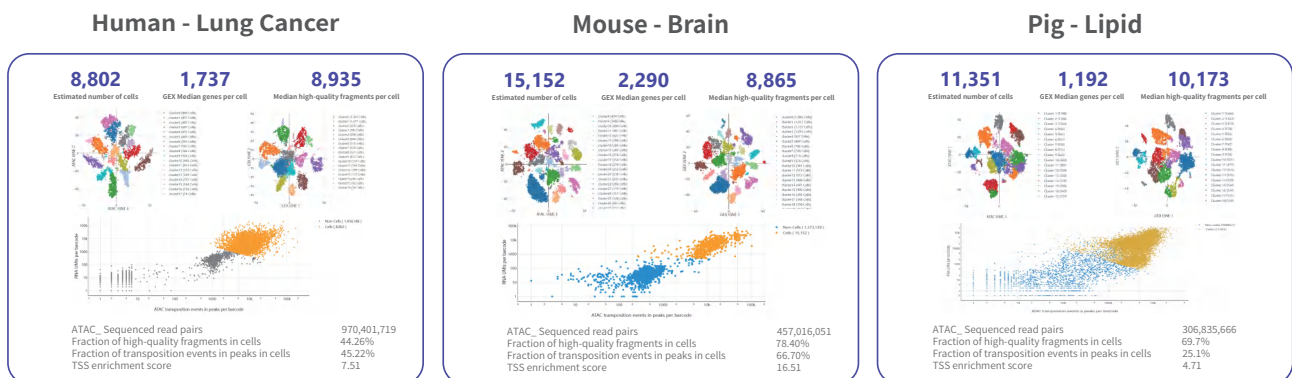


Figure 3. Cell clustering results of different samples

What Stories Does the Data Tell?

Aligned in Two Dimensions

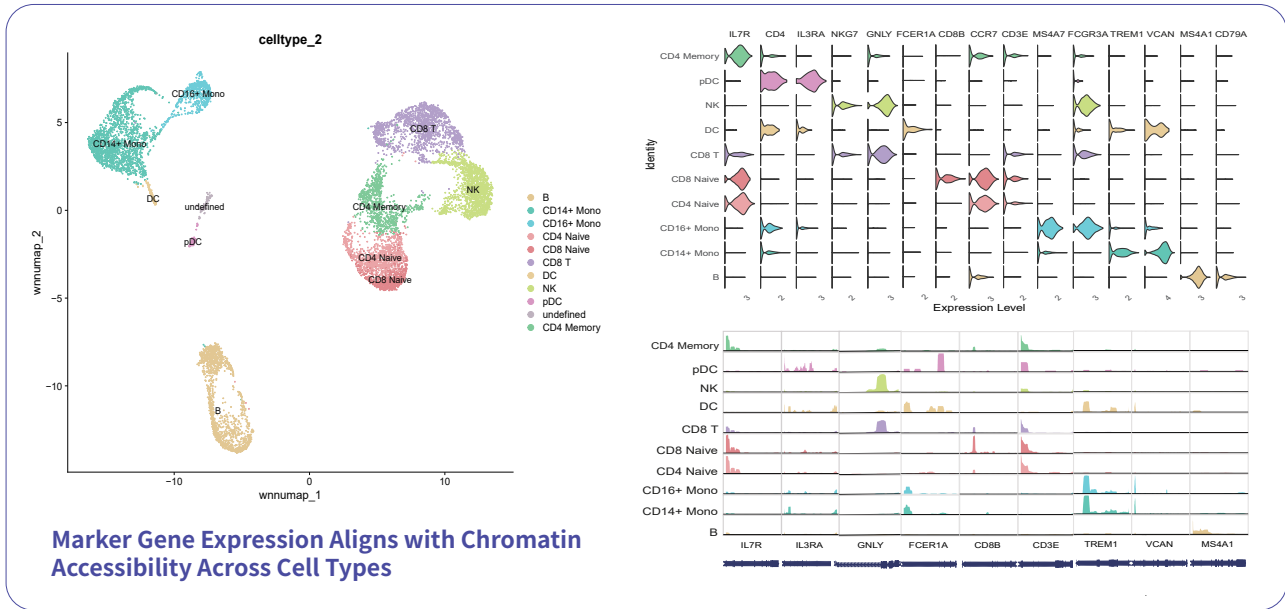


Figure 4. Cell clustering and ATAC results of a human PBMC sample

Beyond PolyA: Broader RNA Analysis

1. Uncover More LncRNAs

Sample	Estimated Number of Cells	Mean Reads per Cell	Median Genes per Cell	Sequencing Saturation	Fraction Reads in Cells	Total Genes Detected	lncRNA Genes	lncRNA Median UMI	lncRNA Median GenesPerCell	Protein Expressed Genes	Protein Median UMI	Protein Median GenesPerCell
Liver Cancer	8,075	45,822	4,682	35.99%	96.53%	31,719	13,119	2,566	478	17,840	10,983	4,058
Liver Paracancerous	30,038	41,380	1,622	64.20%	94.73%	33,859	13,634	659	229	18,189	6,183	2,487

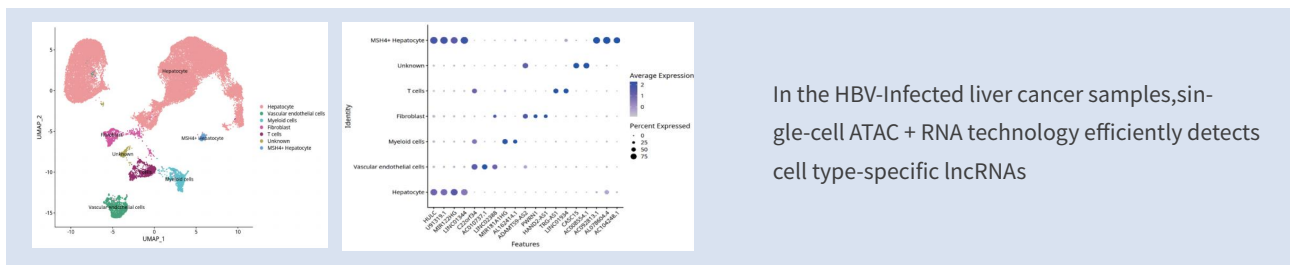


Figure 5. Cell clustering and lncRNA expression in human liver samples

2. Precise Viral RNA Detection

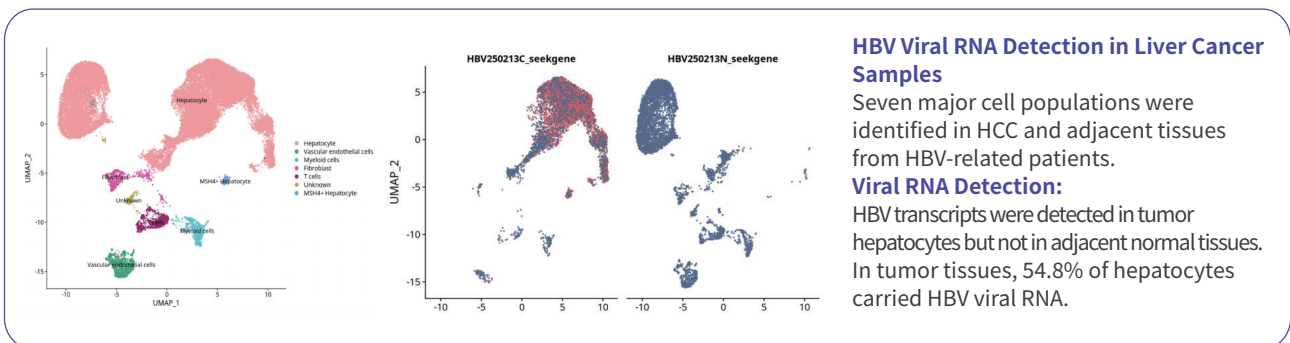


Figure 6. Cell clustering with HBV viral RNA detection in human liver

What Are the Key Applications?



Chromatin + Transcriptome
Profiling



Disease-Related
Targets/TFs



Cellular Functional
Heterogeneity



GWAS Risk
Mechanisms

What Should I Request to Get Started?

Product	Specifications	Product Code
SeekOne™ DD Single Cell Multiome ATAC + RNA Kit	8 tests	K02901-08
SeekOne™ Digital Droplet System	1 unit	M001A
SeekArc™ Tools Single-Cell Data Analysis Software	Bioinformatic tool	/

How to Get in Touch?



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