

HOW DO SINGLE-CELL TECHNOLOGIES COMPARE?



Platform	10x Genomics							Parse Biosciences		
Protocols	3' v3.1	3' HT	5' v2	5' HT	ATAC v2	Multiome	Flex	Parse Mini	Parse WTK	Parse Mega
Targets	RNA Gene expression (GEx)	RNA Gene expression (GEx)	RNA Gene expression (GEx)	RNA Gene expression (GEx)	ATAC	RNA Gene expression (GEx)	RNA Gene expression (GEx)	RNA Gene expression (GEx)	RNA Gene expression (GEx)	RNA Gene expression (GEx)
	GEx and cell surface protein (CSP)	GEx and cell surface protein (CSP)	GEx and cell surface protein (CSP)	GEx and cell surface protein (CSP)		ATAC & GEx	GEx and cell surface protein (CSP)	GEx, TCR	GEx, TCR	GEx, TCR
			GEx and immune profiling (VDI)	GEx and immune profiling (VDI)		ATAC		GEx, CRISPR, TCR	GEx, CRISPR, TCR	GEx, CRISPR, TCR
			GEx, CSP, VDJ	GEx, CSP, VDJ				GEx, CRISPR	GEx, CRISPR	GEx, CRISPR
								GEX, Immune Capture	GEX, Immune Capture	GEX, Immune Capture
Sample multiplexing	Yes	Yes	Yes	Yes	Not supported	Not supported	Yes	Required	Required	Required
Max samples/run	8	16	8	16	8	8	8	12	48	96
Min cells/sample								833	2,083	10,417
Max cells/sample (10x) Max cells/plate (Parse)	10,000	20,000	10,000	20,000	10,000	10,000	10,000	10,000	100,000	1,000,000
Max cells/lane	20,000	60,000	20,000	60,000	10,000	10,000	128,000			
Capture rate	60-65%	60-65%	60-65%	60-65%	60-65%	60-65%	2.00%	20-25%	20-25%	20-25%
Input sample type	Cells	Cells	Cells	Cells	Nuclei	Nuclei	Cells (FFPE or fixed)	Cells or nuclei	Cells or nuclei	Cells or nuclei
QC requirement	Viability/DAPI >80%	Viability/DAPI >80%	Viability/DAPI >80%	Viability/DAPI >80%	Viability/DAPI >80%	Viability/DAPI >80%	Viability >80%; DV 200 >50%	Viability/DAPI >80%	Viability/DAPI >80%	Viability/DAPI >80%