

Data Sheet

Product Name: Matched Pair - Paraffin Tissue Section - Human Primary Tumor and Normal (PP): Colon, Visium-Characterized

Catalog No.: T8235090-PP-SV

Lot No.: C706404

Species: Human Mouse Rat Monkey (Rh) Guinea Pig Porcine
 Bovine Hamster Dog Monkey (Cy) Rabbit Plant

Tissue Type: Normal Adult Fetal Tumor Disease Cell line
Tissue Name: Colon
Tumor Size: N/A

Donor Information: H50529T, Race: Caucasian

Male: _____ year(s) old

Female: 49 year(s) old

Pathological Diagnosis: Signet ring cell carcinoma, Stage IVC T4aN2bM1

Location: Colon

Visium Characterization:

C706404-PN:



Summary	
Number of Spots Under Tissue	1,753
Mean Reads per Spot	71,086
Median Genes per Spot	1,613
Sequencing	
Number of Reads	124,614,471
Valid Barcodes	98.2%
Valid UMIs	100.0%
Sequencing Saturation	94.0%
Q30 Bases in Barcode	96.5%
Q30 Bases in Probe Read	68.7%
Q30 Bases in UMI	96.4%
Mapping	
Reads Mapped to Probe Set	97.6%
Reads Mapped Confidently to Probe Set	93.4%
Reads Mapped Confidently to the Filtered Probe Set	76.1%
Spots	
Fraction Reads in Spots Under Tissue	86.9%
Mean Reads per Spot	71,086
Mean Reads Under Tissue per Spot	59,477
Median UMI Counts per Spot	2,681
Median Genes per Spot	1,613
Genes Detected	16,998

C706404-PT:


Summary	
Number of Spots Under Tissue	2,530
Mean Reads per Spot	64,811
Median Genes per Spot	5,777
Sequencing	
Number of Reads	163,972,167
Valid Barcodes	98.6%
Valid UMIs	100.0%
Sequencing Saturation	70.0%
Q30 Bases in Barcode	96.5%
Q30 Bases in Probe Read	69.0%
Q30 Bases in UMI	96.4%
Mapping	
Reads Mapped to Probe Set	98.5%
Reads Mapped Confidently to Probe Set	97.2%
Reads Mapped Confidently to the Filtered Probe Set	82.7%
Spots	
Fraction Reads in Spots Under Tissue	93.4%
Mean Reads per Spot	64,811
Mean Reads Under Tissue per Spot	59,554
Median UMI Counts per Spot	14,668
Median Genes per Spot	5,777
Genes Detected	16,824

Summary Legend

Column Header	Definition
Number of Reads	Total number of read pairs that were assigned to this library in demultiplexing.
Valid Barcodes	Fraction of reads with barcodes that match the whitelist after barcode correction.
Valid UMIs	Fraction of reads with valid UMIs; i.e. UMI sequences that do not contain Ns and that are not homopolymers.
Sequencing Saturation	The fraction of reads originating from an already-observed UMI. This is a function of library complexity and sequencing depth. More specifically, this is the fraction of confidently mapped, valid spot-barcode, valid UMI reads that had a non-unique spot-barcode/UMI/gene combination.
Q30 Bases in Barcode	Fraction of spot barcode bases with Q-score ≥ 30 , excluding very low quality/no-call ($Q \leq 2$) bases from the denominator.
Q30 Bases in Probe Read	Fraction of RNA read bases with Q-score ≥ 30 , excluding very low quality/no-call ($Q \leq 2$) bases from the denominator. This is Read 2 for the Visium v1 chemistry.
Q30 Bases in UMI	Fraction of UMI bases with Q-score ≥ 30 , excluding very low quality/no-call ($Q \leq 2$) bases from the denominator.
Reads Mapped to Probe Set	Fraction of reads that mapped to the probe set.
Reads Mapped Confidently to Probe Set	Fraction of reads that mapped uniquely to a probe in the probe set.
Reads Mapped Confidently to the Filtered Probe Set	Fraction of reads from probes that map to a unique gene. These reads are considered for UMI counting by default. This metric will be None when probe filtering is disabled.
Fraction Reads in Spots Under Tissue	The fraction of valid-barcode, confidently-mapped-to-transcriptome reads with tissue-associated barcodes.
Mean Reads per Spot	The number of reads, both under and outside of tissue, divided by the number of barcodes associated with a spot under tissue.
Mean Reads Under Tissue per Spot	The number of reads under tissue divided by the number of barcodes associated with a spot under tissue.
Median UMI Counts per Spot	The median number of UMI counts per tissue covered spot.
Median Genes per Spot	The median number of genes detected per spot under tissue-associated barcode. Detection is defined as the presence of at least 1 UMI count.
Genes Detected	The number of unique genes from the filtered probe set with at least one UMI count in any tissue covered spot.

Components:

1. 5 slides per package
2. Certificate of Analysis

FOR IN VITRO RESEARCH USE ONLY

APPROVED BY:

