Visium CytAssist for FFPE Assay Protocol Planner

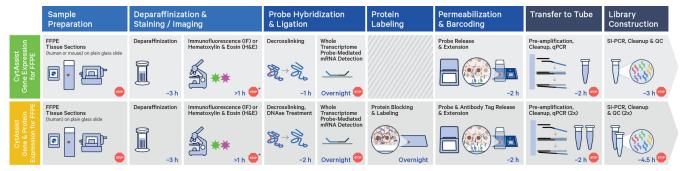
Introduction

The Visium CytAssist is compatible with FFPE tissue sections placed on blank slides. This document provides workflow overviews for processing FFPE tissue and additional equipment, kits, and reagents for the following assays:

- Visium CytAssist Spatial Gene Expression
- Visium CytAssist Spatial Gene and Protein Expression

Reagents and hardware produced by 10x Genomics are not listed in this document. Unless otherwise indicated, reagent and equipment tables apply to both assays.

Workflow Overviews



*for both assays, stopping points during staining apply only to H&E Staining.

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Kits, Reagents & Equipment

The items in the tables below have been validated by 10x Genomics and are highly recommended for the Visium CytAssist assay. **Substituting materials may adversely affect system performance.** This list does not include standard laboratory equipment such as water baths, centrifuges, vortex mixers, pH meters, freezers etc.

Supplier	Description	Part Number (US)
Rainin (pipettes)	Pipet-Lite Multi Pipette L8-200XLS+	17013805
	Pipet-Lite LTS Pipette L-2XLS+	17014393
	Pipet-Lite LTS Pipette L-10XLS+	17014388
	Pipet-Lite LTS Pipette L-20XLS+	17014392
	Pipet-Lite LTS Pipette L-100XLS+	17014384
	Pipet-Lite LTS Pipette L-200XLS+	17014391
	Pipet-Lite LTS Pipette L-1000XLS+	17014382
Rainin (tips)	Tips LTS 200UL Filter RT-L200FLR	30389240
	Tips LTS 1ML Filter RT-L1000FLR	30389213
	□ Tips LTS 20UL Filter RT-L10FLR	30389226
Wide Bore Pipette	□ Tips RT LTS 200UL FLW	30389241
tips	Tips RT LTS 1000UL FLW	30389218

Sample Preparation Reagents

For items with multiple options listed, choose option based on availability and preference.

For FFPE Tissue Sectioning & Section Placement				
ltem	Alternatives/Options	Vendor	Part Number	
Microtome	Epredia HM 355S Automatic Microtome Or any standard histology grade microtome	Fisher Scientific	23-900-672	
Microtome blade	Epredia MX35 Premier Disposable Microtome Blades, Low Profile	Fisher Scientific	3052835	
Cool-Cut, Optional	Thermo Scientific Cool-Cut, Optional	Fisher Scientific	77-112-0	
Section transfer system (STS) Optional	Thermo Scientific Section Transfer System (STS), Optional - If using Section Transfer System	Fisher Scientific	771200	
Probes	Fisherbrand Fine Precision Probe	Fisher Scientific	12-000-153	
Forceps	Fisherbrand Curved Medium Point General Purpose Forceps	Fisher Scientific	16-100-110	
Water bath	Premiere Tissue Floating Bath, Lighted Or any equivalent water bath	Fisher Scientific	76278-820	
Section dryer oven	Epredia High Capacity Section Dryer	Fisher Scientific	A84600051	
Slide drying rack If using section dryer oven	StatLab TISSUE-TEK VERT 24 SLIDE RACK	Fisher Scientific	LWS2124	
Thermal cycler Alternative to section dryer oven	C1000 Touch Thermal Cycler with 96-Deep Well Reaction Module	Bio-Rad	1851197	
Green Marker, Optional if marking area of interest	Sharpie Argyle Green Permanent Marker Or any equivalent hue	Sharpie	1785396	
Brushes	Camel Hair Brushes, Or any equivalent paintbrush	Ted Pella	11859	
Blank Slides	Epredia Shandon ColorFrost Plus Slides	Fisher Scientific	6776214	
	Fisherbrand Superfrost Plus Microscope Slides	Fisher Scientific	12-550-15	
	Poly-Prep Slides	Millipore Sigma	P0425	
	VWR Superfrost Plus Micro Slides, Premium	VWR	48311-703	
Additional Materials				
Razor blades		-	-	
Ice bucket		-	-	
Dry ice		-	-	
Ultrapure/Milli-Q Water for Wat		-	-	

from Milli-Q Integral Ultrapure Water System or equivalent

RNA Quality Assessment (DV200) Reagents

For items with multiple options listed, choose option based on availability and preference.

For RNA Quality Assessment				
Xylene	Xylene, Reagent Grade	Millipore Sigma	214736	
	Xylene, Histological Grade	Millipore Sigma	534056	
Ethanol	Ethyl Alcohol, Pure (200 Proof, anhydrous)	Millipore Sigma	E7023- 500ML	
	Ethanol absolute ≥99.5%, TechniSolv, pure (Europe Only)	VWR	83813.360DP	
RNA extraction	RNeasy FFPE Kit (50)	Qiagen	73504	
Deparaffinization solution	Deparaffinization Solution	Qiagen	19093	
RNase decontamination solution	RNaseZap RNase Decontamination Solution	Thermo Fisher Scientific	AM9780	
Nuclease-free water	Nuclease-free Water (not DEPC-Treated)	Thermo Fisher Scientific	AM9937	
Staining dishes If working with hardset coverslipped slides	Staining Dish, White	VWR	25608-906	
Coplin jars If working with hardset coverslipped slides. Alternative to staining dishes.	Glass Coplin Staining Jar, Screw Cap	VWR	2100500-232	
Metal Block If working with hardset coverslipped slides	Light Labs 96-WELL ALUMINUM BLOCK	Fisher Scientific	NC9820161	
1.5-ml centrifuge tubes	DNA LoBind Tubes, 1.5 ml	Eppendorf	022431021	
0.2 ml PCR 8-tube strips	PCR Tubes 0.2 ml 8-tube strips	Eppendorf	951010022	
Choose either Eppendorf,	TempAssure PCR 8-tube strip	USA Scientific	1402-4700	
USA Scientific, or Thermo Fisher Scientific PCR 8-tube	MicroAmp 8-TubeStrip, 0.2 ml	Thermo Fisher Scientific	N8020580	
strips	MicroAmp 8-cap Strip, clear	Thermo Fisher Scientific	N8010535	
Nanodrop/Qubit fluorometer	Nanodrop 2000c Spectrophotometers Or any equivalent Nanodrop Alternative to Qubit Fluorometer	Thermo Fisher Scientific	ND-2000C	
	Qubit RNA BR Assay Kit	Thermo Fisher Scientific	Q10210	
	Qubit Assay Tubes	Thermo Fisher Scientific	Q32856	
	Qubit 4 Fluorometer	Thermo Fisher Scientific	Q33238	
Bioanalyzer/Tapestation	RNA 6000 Pico Kit	Agilent	5067-1513	
Choose Bioanalyzer or	2100 Bioanalyzer Laptop Bundle	Agilent	G2953CA	
TapeStation based on availability & preference.	4200 TapeStation	Agilent	G2991AA	
αναιιαριτική α μτετετετικέ.	High Sensitivity RNA ScreenTape	Agilent	5067-5579	
	High Sensitivity RNA ScreenTape Ladder	Agilent	5067-5581	
	High Sensitivity RNA ScreenTape Sample Buffer	Agilent	5067-5580	

Add-on Antibody Optimization Demonstrated Protocol

For items with multiple options listed, choose option based on availability and preference.

ltem	Alternatives/Options	Vendor	Part Number
Amp Mix	AllTaq PCR Core Kit	Qiagen	203123
Xylene	Xylene, Reagent Grade	Millipore Sigma	214736
	Xylene, Histological Grade	Millipore Sigma	534056
Ethanol	Ethyl Alcohol, 200 Proof	Millipore Sigma	E7023
	Ethanol absolute ≥99.5%, TechniSolv, pure (Europe Only)	VWR	83813.360DP
Citrate Buffer	Citrate Buffer, pH 6.0, 10x, Antigen Retriever	Millipore Sigma	C9999-1000ML
Tris 1 M (Tris-	Tris 1 M, pH 8.0, RNase-free	Thermo Fisher Scientific	AM9855G
HCI)	Tris 1 M, pH 8.0	Teknova	T5080
	UltraPure 1M Tris-HCl, pH 8.0	Invitrogen	15568025
PBS	PBS - Phosphate Buffer Saline (10X) pH 7.4, RNase-free	Thermo Fisher Scientific	AM9624
10% Tween-20	Tween 20 Surfact-Amps Detergent Solution (10% solution)	Thermo Fisher Scientific	28320
qPCR Mix		KAPA Biosystems (US Only)	KK/ 600
	KAPA SYBR Fast qPCR Master Mix (2X)	Millipore Sigma (Europe, Asia & Canada)	- KK4600
Nuclease-free water	Nuclease-free Water (not DEPC-Treated)	Thermo Fisher Scientific	AM9937
DAPI	DAPI Solution (1 mg/ml)	Thermo Fisher Scientific	62248
8M KOH	Potassium Hydroxide Solution, 8M	Millipore Sigma	P4494-50ML
20X SSC Buffer	SSC Buffer 20X Concentration	Millipore Sigma	S66391L
Oligo- conjugated Antibodies	TotalSeq-Bn Antibodies	BioLegend	-
Antibody Oligo Primers*	Forward Primer (5'-3'): GTGACTGGAGTTCAGACGTG Reverse Primer (3'-5'): GCTAGGACCGGCCTTAAAGC	-	-
Secondary Antibodies**	Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 568	Thermo Fisher Scientific	A10037
	Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor 568	Thermo Fisher Scientific	A10042
Autofluorescence Quencher	TrueBlack Lipofuscin Autofluorescence Quencher Optional	Biotium	23007
Mounting medium	SlowFade Diamond Antifade Mountant	Thermo Fisher Scientific	S36967
Glycerol	Glycerol	Acros Organics	327255000
	Glycerol Solution	Millipore Sigma	49781
Buffer EB	Qiagen Buffer EB	Qiagen	19086
Coplin jar/	Coplin Jar	VWR	100500-232
staining dishes	Staining Dishes	VWR	25608-906
Section dryer oven	Epredia High Capacity Section Dryer Or any equivalent product. Thermal cycler may also be used for section drying.	Fisher Scientific	A84600051

* Order primers at 100 micromole scale and choose standard desalting purification. **Select secondary antibodies based on primary antibody host. Avoid secondary antibodies with fluorescent dyes with emission maxima of 520 ± 20 nm such as FITC, Alexa Fluor 488, and ATTO 488 due to background fluorescence.

Protocol Planner | Visium CytAssist for FFPE Protocol Planner

Forceps	Excelta 3C-S-SE Tweezers Very Fine Point Straight SS	Excelta	3C-S-SE
15 ml tubaa	DNA LoBind Tubes, 1.5 ml	Eppendorf	022431021
1.5 ml tubes	Low DNA Binding Tubes, 1.5 ml	Sarstedt	72.706.700
PCR Plates and Sealing Film	Hard-shell PCR Plates 96-well, thin wall (pkg of 50) (or any compatible PCR plate)	Bio-Rad	HSP9665
	Microseal 'B' PCR Plate Sealing Film adhesive (Or any compatible PCR Plate sealing adhesive)	Bio-Rad	MSB1001
Additional Mate	rials		
Razor Blades		-	-
Ultrapure/Milli-Q Water, - - from Milli-Q Integral Ultrapure Water System or equivalent - -			

Deparaffinization, H&E Staining, & Decrosslinking Reagents

For items with multiple options listed, choose option based on availability and preference.

	Item	Alternatives/Options	Vendor	Part Numbe
	Xylene	Xylene, Reagent Grade	Millipore Sigma	214736
		Xylene, Histological Grade	Millipore Sigma	534056
	Ethanol	Ethyl Alcohol, Pure (200 Proof, anhydrous)	Millipore Sigma	E7023- 500ML
		Ethanol absolute ≥99.5%, TechniSolv, pure (Europe Only)	VWR	83813.360D
	Eosin	Eosin Y-solution, Alcoholic	Millipore Sigma	HT110116
		Eosin Y Solution (Modified Alcoholic)	Abcam	ab246824
		Eosin Y with Phloxine 1% alcoholic solution Gene Expression Assay Only	VWR	10143
		Eosin Y Solution, Alcoholic, with Phloxine	Millipore Sigma	HT110332
	Hematoxylin	Hematoxylin Solution, Mayer's	Millipore Sigma	MHS16
		Hematoxylin Solution According to Mayer	Millipore Sigma	51275
		Hematoxylin, Mayer's	Agilent	S330930-2
	Bluing reagent	Bluing Reagent, Dako	Agilent	CS70230-2
		Thermo Scientific Shandon Bluing Reagent	Fisher Scientific	6769001
		Scott's Bluing Agent	Ricca Chemical Company	6697
	Glycerol	Glycerol Solution	Millipore Sigma	49781
		Glycerol	Acros Organics	327255000
	0.1 N HCI	Hydrochloric Acid Solution, 0.1 N Or any equivalent HCl	Fisher Chemical	SA54-1
	Staining jar/dishes	Coplin Jar	VWR	100500-232
		Staining Dishes	VWR	25608-906
	Section dryer oven	Epredia High Capacity Section Dryer Or any equivalent product. Thermal cycler may also be used for section drying.	Fisher Scientific	A84600051
	Green Marker, Optional, if annotating slide	Sharpie Argyle Green Permanent Marker Or any equivalent hue	Sharpie	1785396
	Slide holders	Slide Holders, 24-place	VWR	25608-868
	Coverslips	Fisherbrand Cover Glasses: Rectangles	Fisher Scientific	12-544-EP
	(50 x 24 mm)	Cover Glasses, Rectangular	VWR	16004-322
	Additional Materials			
	1000-ml Beakers (7)		-	-
	Ultrapure/Milli-Q Water for W from Milli-Q Integral Ultrapure		-	-

Deparaffinization, Decrosslinking, Immunofluorescence Staining & Imaging Reagents

For items with multiple options listed, choose option based on availability and preference.

ltem	Alternatives/Options	Vendor	Part Number
Xylene	Xylene, Reagent Grade	Millipore Sigma	214736
	Xylene, Histological Grade	Millipore Sigma	534056
Glycerol	Glycerol Solution	Millipore Sigma	49781
	Glycerol	Acros Organics	327255000
Ethanol	Ethyl Alcohol, Pure	Millipore Sigma	E7023
	Ethanol absolute ≥99.5%, TechniSolv, pure (Europe Only)	VWR	83813.360DP
PBS	PBS - Phosphate Buffered Saline (10X) pH 7.4, RNase- free	Thermo Fisher Scientific	AM9624
10% Tween-20	Tween 20 Surfact-Amps Detergent Solution (10% solution)	Thermo Fisher Scientific	28320
Nuclease-free water	Nuclease-free Water (not DEPC-Treated)	Thermo Fisher Scientific	AM9937
DAPI	DAPI Solution (1 mg/ml)	Thermo Fisher Scientific	62248
Antibodies	-	-	-
RNase inhibitor	Protector RNase Inhibitor	Millipore Sigma	3335399001
Mounting medium	SlowFade Diamond Antifade Mountant	Thermo Fisher Scientific	S36967
	SlowFade Gold Antifade Mountant	Thermo Fisher Scientific	S36966
Section dryer oven	Epredia High Capacity Section Dryer	Fisher Scientific	A84600051
Slide holders	Slide Holders, 24-place	VWR	25608-868
Coverslips	Fisherbrand Cover Glasses: Rectangles	Fisher Scientific	12-544-EP
(50 x 24 mm)	Cover Glasses, Rectangular	VWR	16004-322
Staining jar/dishes	Coplin Jar	VWR	100500-232
	Staining Dishes	VWR	25608-906
Green Marker, Optional, if annotating slide	Sharpie Argyle Green Permanent Marker Or any equivalent hue	Sharpie	1785396
Autofluorescence Quencher	TrueBlack Lipofuscin Autofluorescence Quencher Optional	Biotium	23007
Additional Materials			
Beakers		-	-
Ultrapure/Milli-Q Wat from Milli-Q Integral U	e <mark>r for Water Bath,</mark> Iltrapure Water System or equivalent	-	-

Imaging Recommendations

An imaging system with a scanning stage that can accurately capture and stitch together large tiled images is recommended for Visium CytAssist assays. The microscope objective should be dry and free of immersion oil. Low magnification, high Numeric Aperture (NA) microscopes, e.g., 10x/0.4NA or 20x/0.8NA, are recommended to balance high resolution and high acquisition speed. Slides are loosely mounted with glycerol and a coverslip and therefore should not be inverted for imaging. If using an inverted microscope, perform imaging through the slide rather than the coverslip and use an objective (with a correction collar) designed to image through microscope slides.

Supplier	Description	Configuration
Thermo Fisher Scientific	EVOS M7000	Inverted
Leica	Aperio Versa 8 Leica DMi8	Upright Inverted
MetaSystems	Metafer	Upright
Nikon	Nikon Eclipse Ti2	Inverted
BioTek	Cytation 7	Inverted or Upright
Keyence	Keyence BZX800	Inverted
Olympus	VS200	Upright
Zeiss	Imager.Z2	Upright

Briał	ntfield	Confia	uration
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Color camera (3 x 8 bit, 2,424 x 2,424 pixel resolution)

White balancing functionality

2.18 µm/pixel minimum capture resolution

Exposure times 2-10 milli sec May vary depending on imaging system

Fluorescence Configuration (if performing IF staining)

Light source (or equivalent) with a wavelength range of 380-680 nm

Monochrome camera (14 bit, 2,424 x 2,424 pixel resolution)

DAPI filter cube (Excitation 392/23, Emission 447/60)

Additional filters - select based on flouorophore/antibodies used

 $2.18 \ \mu m/pixel minimum capture resolution$

Exposure times 100 milli sec - 2 sec May vary depending on imaging system

Additional Reagents and Consumables for the Visium CytAssist Assays

The items in the table below have been validated by 10x Genomics and are highly recommended for both the Visium CytAssist Gene Expression and Visium CytAssist Gene and Protein Expression assays. **Substituting materials may adversely affect system performance.** This list does not include standard laboratory equipment such as water baths, centrifuges, vortex mixers, pH meters, freezers etc.

	Item	Description	Vendor	Part Number
	Plastics			
	1.5 ml tubes	DNA LoBind Tubes, 1.5 ml	Eppendorf	022431021
		Low DNA Binding Tubes, 1.5 ml	Sarstedt	72.706.700
	2.0 ml tubes	DNA LoBind Tubes, 2.0 ml when processing more than two slides	Eppendorf	022431048
		Low DNA Binding Tubes, 2.0 ml	Sarstedt	72.695.700
	15 ml tubes	15 ml PP Centrifuge Tubes	Corning	730791
	50 ml tubes	Self-Standing Polypropylene Centrifuge Tubes (50 ml), sterile	Corning	430921
	0.2 ml PCR 8-tube	PCR Tubes 0.2 ml 8-tube strips	Eppendorf	951010022
	strips	TempAssure PCR 8-tube strip	USA Scientific	1402-4700
		MicroAmp 8-Tube Strip, 0.2 ml	Thermo Fisher Scientific	N8010580
		MicroAmp 8-Cap Strip, clear	Thermo Fisher Scientific	N8010535
	Slide mailer/tube	Simport Scientific LockMailer Tamper Evidence Slide Mailer	Thermo Fisher Scientific	22-038-399
		Self-Standing Polypropylene Centrifuge Tubes (50 ml), sterile Alternative to slide mailer	Corning	430921
	PCR plates and sealing film	Hard-shell PCR Plates 96-well, thin wall (pkg of 50) Or any compatible PCR Plate	Bio-Rad	HSP9665
		Microseal 'B' PCR Plate Sealing Film, adhesive	Bio-Rad	MSB1001
	Reagent reservoirs	Divided Polystyrene Reservoirs	VWR	41428-958
	Kits & Reagents			
	Nuclease-free water	Nuclease-free Water (not DEPC-Treated)	Thermo Fisher Scientific	AM9937
	Tris 1 M (Tris-HCl)	Tris 1 M, pH 8.0, RNase-free	Thermo Fisher Scientific	AM9855G
		Tris 1 M, pH 8.0	Teknova	T5080
		UltraPure 1M Tris-HCl, pH 8.0	Invitrogen	15568025
	10X PBS	PBS - Phosphate Buffered Saline (10X) pH 7.4, RNase-free	Thermo Fisher Scientific	AM9624
	Tween 20	Tween 20 Surfact-Amps Detergent Solution (10% solution)	Thermo Fisher Scientific	28320

For items with multiple options listed, choose option based on availability and preference.

Additional Reagents and Consumables for Visium CytAssist Assays

For items with multiple options listed, choose option based on availability and preference.

	qPCR Mix	PCR Mix KAPA SYBR FAST qPCR Master Mix (2X)		KAPA Biosystems (US Only)	KK4600	
				Millipore Sigma (Europe, Asia, & Canada)		
	SPRIselect reagent	SPRIselect Reagent Kit		Beckman Coulter	B23318	
	Ethanol	Ethanol, Pure (200 Proof, a	anhydrous)	Millipore Sigma	E7023-500ML	
	8M KOH	Potassium Hydroxide Solu	tion, 8M	Millipore Sigma	P4494-50ML	
	20X SSC Buffer	SSC Buffer 20X Concentra	te	Millipore Sigma	S66391L	
	Buffer EB	Qiagen Buffer EB		Qiagen	19086	
	Eosin	Eosin Y-solution, Alcoholic	;	Millipore Sigma	HT110116	
		Eosin Y Solution (Modified	Alcoholic)	Abcam	ab246824	
		Eosin Y with Phloxine 1% a Gene Expression Assay On		VWR	10143	
		Eosin Y Solution, Alcoholic	, with Phloxine	Millipore Sigma	HT110332	
	Ultrapure Water	Ultrapure/Milli-Q water				
	Mini Centrifuge	VWR Mini Centrifuge Or any equivalent mini centrifuge		VWR	76269-064	
	Quantification & Quality Control					
	Bioanalyzer & associated reagents	2100 Bioanalyzer Laptop B	Bundle (discontinued)	Agilent	G2943CA	
		Replacement 2100 Bioanal Expert Laptop Bundle	yzer Instrument/ 2100	Agilent	G2939BA/ G2953CA	
		High Sensitivity DNA Kit	Choose Bioanalyzer,	Agilent	5067-4626	
	TapeStation &	4200 TapeStation	TapeStation, or	Agilent	G2991AA	
	associated reagents	High Sensitivity D1000: ScreenTape/ Reagents		Agilent	5067-5592/ 5067-5593	
	•	High Sensitivity D5000: ScreenTape/ Reagents		Agilent	5067-5584/ 5067-5585	
	LabChip & associated	LabChip GX Touch HT Nu	cleic Acid Analyzer	PerkinElmer	CLS137031	
	reagents	DNA High Sensitivity Reag	gent Kit	PerkinElmer	CLS760672	
	Qubit & associated	Qubit Fluorometer		Thermo Fisher Scientific	Q33238	
	reagents (for determining	Qubit Assay Tubes Reager	nts	Thermo Fisher Scientific	Q32856	
	dilution factor for TapeStation, Bioanalyzer, or LabChip)	Qubit dsDNA HS and BR A	lssay Kits	Thermo Fisher Scientific	Q32854	
	Library Quantification Kit	KAPA Library Quantification Platforms	on Kit for Illumina	KAPA Biosystems	KK4824	

Recommended Thermal Cyclers

Supplier	Description	Part Number
Bio-Rad	C1000 Touch Thermal Cycler with 96-Deep Well Reaction Module (discontinued)	1851197
	PTC Tempo Deepwell Thermal Cycler*	12015392
Eppendorf	MasterCycler Pro (discontinued)	North America 950030010 International 6321 000.019
	MasterCycler X50S	North America 6311000010
Thermo Fisher Scientific	Veriti 96-Well Thermal Cycler (discontinued)	4375786
Analytik Jena	Biometra TAdvanced 96 SG with 96-well block (silver, 0.2 mL) and gradient function	846-x-070-241

*If used with a single cassette, place the cassette on the side of the adapter furthest away from the thermal cycler hinge to prevent lid lock errors.

If using thermal cyclers other than the BioRad C1000, ramp rates should be adjusted for all protocol steps as described below:

- Eppendorf MasterCycler X50s: 3°C/sec heating and 2°C/sec heating cooling
- · Analytik Jena Biometra TAdvanced: 2°C/sec heating and cooling

Thermal cycler requirements if reactions are performed on a slide:

Thermal cycler requirements if reactions are performed in a tube (Elution, Step 3.0 onward):

• 96 deep-well block or 0.2 ml block configuration

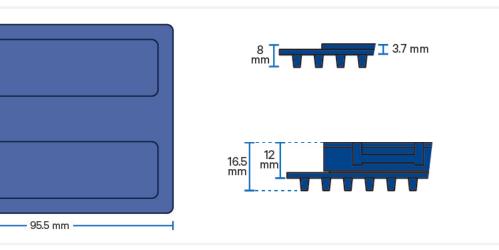
• Uniform heating of 100 µl volumes

• Temperature-controlled lid

- Thermal cycler must be able to accommodate the Low Profile Thermocycler Adapter:
- Well depth: 4.5 mm

73 mm

- Distance between block and heated lid: 12 mm
- Reaction block dimensions 95.5 x 73 mm



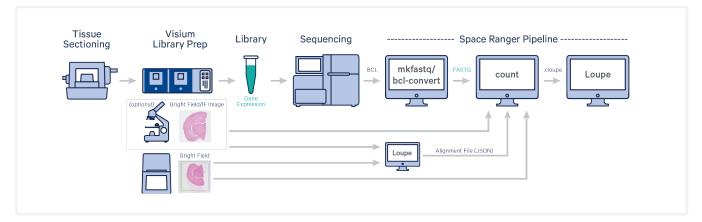
Recommended Real Time qPCR Systems

Supplier	Description	Part Number
Applied Biosystems	QuantStudio 12K Flex System	4471087
Bio-Rad	CFX96 Real-time System (discontinued)	1855096

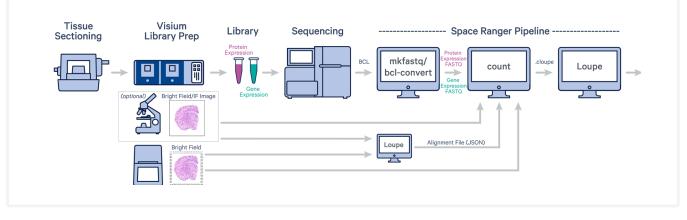
Analysis of Visium CytAssist Data

For detailed information on analysis of Visium CytAssist data, refer to 10x Genomics Software Support site.

Data Analysis Overview – Visium CytAssist Spatial Gene Expression



Data Analysis Overview – Visium CytAssist Spatial Gene and Protein Expression



Key information that should be collected and provided to the data analyst/bioinformatician to ensure that parameters are set appropriately for Space Ranger to analyze the data:

- · Sample name, library type, and either Illumina adaptor index set or index sequences
- If a microscope image of the tissue section on plain glass is provided, then the corresponding imaging type (Brightfield vs Fluorescence (color composite) vs Fluorescence (multipage TIFF) for the supplied image
- Visium slide serial number and Capture Area on the slide corresponding to each sample
- · The CytAssist instrument captured Brightfield image with fiducial frame

Document Revision Summary

Document Number	CG000556	
Title	Visium CytAssist for FFPE - Protocol Planner	
Revision	Rev F	
Revision Date	August 2023	
General Changes	Updated for general minor consistency of language and terms throughout	
Specific Changes	• Updated to include reagents from the Visium CytAssist Gene and Protein Expression Add-on Antibody Optimization protocol (CG000664).	
	Added DTO Teners Deservall to list of reserves and additioners levels	

Added PTC Tempo Deepwell to list of recommended thermal cyclers.

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