



RNAscope™ HiPlex Pro for COMET™ Checklist

This checklist provides a list of materials needed to execute the Multiomics protocol on COMET. The checklist notes materials required for RNAscope only as well as those needed to run RNA and protein.

Note: this checklist does not include materials needed for the preparation of the tissue blocks (sample fixation, embedding, sectioning). Tissue should be sectioned on Superfrost Plus slides.

Reagents/Materials Required from Advanced Cell Diagnostics

Reagent Kits (One Reagent Kit is Required)

RNAscope HiPlex Pro for COMET Reagent Kit (Refer to last page for complete list of kit components)	Part number
4-plex, 20 Slide Reagent Kit	P/N 322085
12-plex, 20 Slide Reagent Kit	P/N 322075
4-plex, 8 Slide Reagent Kit	P/N Coming Soon
12-plex, 8 Slide Reagent Kit	P/N Coming Soon
Control Probes (Ready to Use, 1X), 10 slides	Part number
RNAscope HiPlex12 CS Negative Control Probe	P/N 324347
RNAscope HiPlex12 CS Positive Control Probe – Hs	P/N 324317
RNAscope HiPlex12 CS Positive Control Probe – Mm	P/N 324437
RNAscope HiPlex12 CS Positive Control Probe – Rn	P/N 324337
Target Probes (50X), 10 slides	Part number
RNAscope HiPlex CS Probe-[sp]-[target]-(T1...T12) Example: RNAscope HiPlex CS Probe - Mm-Ifng-T10 <i>Note: 4-plex kits are compatible with T1-T4 probes</i>	P/N various
Extras (optional/as needed)	Part number
RNAscope HiPlex Cleaving Stock Solution v2*	P/N 324399 (1 box x 5 ampoules)
RNAscope Control Slide -Human Hela Cell Pellet*	P/N 310045 (4, single-section slides)

*included in reagent kit, see page 3 for quantities provided in kit

*not included in reagent kit

Requirements from Lunaphore

Instrument/Software (Required)	Part number
COMET™ 1.0 Instrument and control station	CM10-S
COMET Software*	Version 1.2.0.0
PT Module (Epredia™)	AP07
*Note: license key necessary to unlock protocol, Contact Lunaphore	
Consumables (Required)	Part number
COMET chip	MK03
Multistaining Buffer	BU06
Dewax and HIER Buffer H, pH 9 (Epredia™)	AR03
Consumables (when including protein cycles)	Part number
Imaging Buffer (required)	BU09
Elution Buffer Kit (required)	BU07-L
Blocking Buffer Kit (optional)	BU10

Other Requirements for Multiomics on COMET

Reagents, consumables, equipment (required)	
20X SSC	Major Lab Supplier
Xylene (or xylene-alternative, e.g. HistoClear)	Major Lab Supplier
100% EtOH	Major Lab Supplier
Drying oven, capable of holding temperature at 60 +/- 1°C	Major Lab Supplier
50 mL conical tubes	See COMET user manual for compatible products
2 mL microtubes	See COMET user manual for compatible products
Slide holders, staining dishes fume hood, etc. (for dewax)	Major Lab Supplier
Tubes, bottles, reservoirs for buffer preparation	Major Lab Supplier
Consumables (required when including protein cycles)	
Primary antibodies	User selected
Secondary antibodies	User selected

RNAscope HiPlex Pro for COMET Reagent Kit

Components and Storage

Kit/Box	Sub-kit	Components	Volume/Amount	Storage Temp
RNAscope HiPlex Pro for COMET 12-plex, 20-slide Reagent Kit	RNAscope HiPlex Pro for COMET™	RNAscope HiPlex Pro AMP 1	11.8 mL x 1 bottle	2-8°C
		RNAscope HiPlex Pro AMP 2	11.8 mL x 1 bottle	
		RNAscope HiPlex Pro AMP 3	11.8 mL x 1 bottle	
		RNAscope HiPlex Pro Fluoro T1-T4	11.8 mL x 1 bottle	
		RNAscope HiPlex Pro Fluoro T5-T8	11.8 mL x 1 bottle	
		RNAscope HiPlex Pro Fluoro T9-T12	11.8 mL x 1 bottle	
		RNAscope HiPlex PretreatPro™	11.8 mL x 1 bottle	
		RNAscope HiPlex Pro Probe Diluent	11.8 mL x 1 bottle	
	RNAscope HiPlex Cleaving Stock Solution v2	Box of 5 Ampoules	4 boxes	15-30°C
		RNAscope HiPlex Pro Imaging Buffer Part A	400 mg	
RNAscope HiPlex Pro for COMET™ 4-plex, 20-slide Reagent Kit	RNAscope HiPlex Pro for COMET™	RNAscope HiPlex Pro AMP 1	11.8 mL x 1 bottle	2-8°C
		RNAscope HiPlex Pro AMP 2	11.8 mL x 1 bottle	
		RNAscope HiPlex Pro AMP 3	11.8 mL x 1 bottle	
		RNAscope HiPlex Pro Fluoro T1-T4	11.8 mL x 1 bottle	
		RNAscope HiPlex PretreatPro™	11.8 mL x 1 bottle	
		RNAscope HiPlex Pro Probe Diluent	11.8 mL x 1 bottle	
		RNAscope HiPlex Pro DAPI (1 mg/mL)	11.8 mL x 1 bottle	
		RNAscope HiPlex Cleaving Stock Solution v2	Box of 5 Ampoules	
	RNAscope HiPlex Pro Imaging Buffer Part A		400 mg	
	RNAscope HiPlex Pro Imaging Buffer Part B	100 mL		

biotechne / Global Developer, Manufacturer, and Supplier of High-Quality Reagents, Analytical Instruments, and Precision Diagnostics.

INCLUDES R&D Systems™ Novus Biologicals™ Tocris Bioscience™ ProteinSimple™ ACD™ ExosomeDx™ Asuragen™ Lunaphore™

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