

Materials List for:

## Visualizing Genetic Variants, Short Targets, and Point Mutations in the Morphological Tissue Context with an RNA *In Situ* Hybridization Assay

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URL: <https://www.jove.com/video/58097>

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### Materials

Name	Company	Catalog Number	Comments
HybEZ Oven (110 or 220 VAC) or HybEZ II Oven (110 or 220V)	ACD	310010 or 310013 (HybEZ™), 321710 or 321720 (HybEZ™ II)	
HybEZ Humidity Control Tray (with lid)	ACD	310012	
ACD EZ-Batch Slide Rack (20 slide capacity) 1 rack 310017	ACD	310017	
HybEZ Humidifying Paper	ACD	310015	
ImmEdge Hydrophobic Barrier Pen (required)	Vector Laboratory	H-4000	
SuperFrost Plus Slides (required)	Fisher Scientific	12-550-15	
10% neutral-buffered formalin (NBF)	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Paraffin wax	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Microtome	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Gill's Hematoxylin I	American Master Tech Scientific/MLS	HXGHE1LT	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Xylene	Fisher Scientific/MLS	X3P-1GAL	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Tissue-Tek Vertical 24 Slide Rack	American Master Tech Scientific/MLS	LWSRA24	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Tissue-Tek Staining Dishes	American Master Tech Scientific/MLS	LWT4457EA	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Tissue-Tek Clearing Agent Dishes, xylene resistant	American Master Tech Scientific/MLS	LWT4456EA	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.

100% alcohol (EtOH)	American Master Tech Scientific/MLS	ALREACS	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
VectaMount Permanent Mounting Medium (required)	Vector Labs	H-5000	
Cover Glass, 24 mm x 50 mm	Fisher Scientific/MLS	12-545-F	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Ammonium hydroxide, 28–30%	Sigma-Aldrich/MLS	320145-500mL	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Carboy (>3L)	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Oster Steamer Model 5712, Black and Decker Steamer HS3000, or the Braun Multiquick FS 20 Steamer	/	/	
Digital thermometer	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Water bath or incubator, capable of holding temperature at 40 +/- 1 °C	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Pipettors and tips, 1–1,000 µL	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Distilled water	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Tubes (various sizes)	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Fume hood	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Graduated cylinder	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Parafilm	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Paper towel or absorbent paper	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Microcentrifuge	MLS	/	MLS Major Laboratory Supplier in North America. For other regions,

			please check Catalog Numbers with your local lab supplier.
Microscope and accessories	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Drying oven, capable of holding temperature at 60 +/- 1 °C	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Formaldehyde	MLS	/	MLS Major Laboratory Supplier in North America. For other regions, please check Catalog Numbers with your local lab supplier.
Histogel	Fisher Scientific/MLS	22-110-678	
BaseScope Reagent Kit - RED	Advanced Cell Diagnostics	322900	
BaseScope Hs-EGFR-E1E2	Advanced Cell Diagnostics	701701	
BaseScope Hs-EGFR-E1E8	Advanced Cell Diagnostics	701711	
BaseScope Hs-EGFR-E7E8	Advanced Cell Diagnostics	701721	
BaseScope Hs-EGFR-E8E9	Advanced Cell Diagnostics	701731	
BaseScope Hs-MET-E14E15	Advanced Cell Diagnostics	701811	
BaseScope Hs-MET-E13E15	Advanced Cell Diagnostics	701801	
BaseScope Hs-KRAS-G12A	Advanced Cell Diagnostics	705491	
BaseScope Hs-KRAS-G12-nt35WT	Advanced Cell Diagnostics	705531	
BaseScope Hs-EGFR-L858R	Advanced Cell Diagnostics	705451	
BaseScope Hs-EGFR-L858WT	Advanced Cell Diagnostics	705461	
BaseScope Control Probe Pack Human	Advanced Cell Diagnostics	322975	