

Materials List for:

# Visualization and Analysis of mRNA Molecules Using Fluorescence *In Situ* Hybridization in *Saccharomyces cerevisiae*

R. Scott Mclsaac<sup>1,2</sup>, Sanford J. Silverman<sup>1</sup>, Lance Parsons<sup>1</sup>, Ping Xu<sup>1</sup>, Ryan Briehof<sup>1</sup>, Megan N. McClean<sup>1</sup>, David Botstein<sup>1,3</sup>

<sup>1</sup>The Lewis-Sigler Institute for Integrative Genomics, Princeton University

<sup>2</sup>Graduate Program in Quantitative and Computational Biology, Princeton University

<sup>3</sup>Department of Molecular Biology, Princeton University

Correspondence to: R. Scott Mclsaac at [r.scott.mclsaac@gmail.com](mailto:r.scott.mclsaac@gmail.com), Megan N. McClean at [mmcclean@princeton.edu](mailto:mmcclean@princeton.edu), David Botstein at [botstein@princeton.edu](mailto:botstein@princeton.edu)

URL: <https://www.jove.com/video/50382>

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## Materials

Name	Company	Catalog Number	Comments
Vanadyl Ribonucleoside Complex	NEB	S1402S	
Lyticase	Sigma	L5263	
<i>E. coli</i> tRNA	Roche	1010954001	
BSA (RNase free)	Ambion		
Beta-mercapt-ethanol	Fisher	03446I	
DAPI, dilactate	Sigma	D9564	
PBS 10X (RNase free)	Ambion	AM9624	
Triton X-100	Shelton Scientific		
Dextran sulfate	Sigma	D6001	Or equivalent
Saline-sodium citrate (SSC) 20X	VWR	82021-484	
Formamide (deionized)	Ambion	AM9342	
Nuclease-free water	Ambion	AM9932	
Alpha-D-glucose	Sigma	158968	For GLOX solution
1 M Tris-HCl, pH 8.0	Ambion	AM9855G	
100% Ethanol			
Glucose oxidase	Sigma	G0543	For GLOX solution
Catalase	Sigma	C3155	For GLOX solution
Concanavalin A	MP Biomedicals	150710	
Polylysine (0.01%)	Sigma	P8920	
Coverslips	Warner Instruments	Cs-18R15	
Prolong Gold Mounting Medium	Invitrogen	P36934	
QIAquick Nucleotide Removal Kit	QIAGEN	28304	
FISH Probes	Biosearch Technologies		Custom order for your desired mRNA sequence
Glass bottom 96-well plates	Nunc	265300	Alternative to coverslips
12-well plates	BD Falcon	351143	
Cy3, Cy3.5, Cy5 dyes	GE Healthcare		monofunctional NHS-ester
<b>EQUIPMENT</b>			
Plasma-Preen I Cleaner	Terra Universal	9505-00	Controller (Cat #9505-17 optional)
Vacuum Pump	Alcatel	205SDMLAM	For operating Plasma-Preen
Widefield Fluorescence Microscope	Olympus	IX81	Or equivalent

100X objective	Olympus	1-UB617R	
Light Source	X-Cite	XCT 10-A	Or equivalent
Filter Sets	Chroma	<i>U-NSP100V2-SPR, U-NSP101V2-SPR, U-NSP102V2-SPR, U-NSP103V2-SPR, U-NSP104V2-SPR.</i>	
Cooled CCD or EMCCD Camera	Hamamatsu	C4742-98-24ER	