

Materials List for:

# Non-radioactive *in situ* Hybridization Protocol Applicable for Norway Spruce and a Range of Plant Species

Anna Karlgren<sup>1</sup>, Jenny Carlsson<sup>2</sup>, Niclas Gyllenstrand<sup>2</sup>, Ulf Lagercrantz<sup>1</sup>, Jens F. Sundström<sup>2</sup>

<sup>1</sup>Department of Evolutionary Functional Genomics, Evolutionary Biology Center, Uppsala University

<sup>2</sup>Department of Plant Biology and Forest Genetics, Uppsala BioCenter, Swedish University of Agricultural Sciences

Correspondence to: Anna Karlgren at [Anna.Karlgren@ebc.uu.se](mailto:Anna.Karlgren@ebc.uu.se), Jens F. Sundström at [jens.sundstrom@vbsg.slu.se](mailto:jens.sundstrom@vbsg.slu.se)

URL: <https://www.jove.com/video/1205>

DOI: [doi:10.3791/1205](https://doi.org/10.3791/1205)

## Materials

Name	Company	Catalog Number	Comments
Acetic anhydride	Sigma-Aldrich	A6404-200ml	minimum 98%
Acrylamide, linear	Ambion	9520	
Anti-DIG-antibodies	Roche Group		
Blocking reagent	Roche Group	11 175 041 910 or 11 096 176 001	
Bovine serum albumin	Sigma-Aldrich	A7030-50g	minimum 98%
Deionized formamide	Sigma-Aldrich		
Denhardtts solution	Sigma-Aldrich	D2532-5ml	
DEPC, diethylpyrocarbonate	Sigma-Aldrich		
Dextran sulfate	Sigma-Aldrich		
DIG RNA Labeling Kit (SP6/T7)	Roche Group	11175025910	
Glutaraldehyde (25%)	Histolab		
Glycogen	Ambion	9510G	
Histoclear II	Histolab		You may use Tissue-clear, Histoclear II, xylene or something similar when embedding your tissue.
Histowax	Histolab		Histowax or Paraplast can be used for embedding.
Paraformaldehyde	Sigma-Aldrich	P6148-500g	
Paraplast plus	Sigma-Aldrich	P3683-1kg	Histowax or Paraplast can be used for embedding.
Phusion™ High-Fidelity DNA Polymerase	Finnzymes		
Probe-on Plus slides	Fisher Scientific	22-230-900	
Proteinase K	Sigma-Aldrich	P2308-5mg	
RNase A	Sigma-Aldrich	R5503-100mg	
Tissue-clear	Sakura Finetek		You may use Tissue-clear, Histoclear II, xylene or something similar when embedding your tissue.
Triethanolamine	Sigma-Aldrich	T1377-100ml	minimum 98%
Triton X-100	use your standard product in the lab		Use one or both of Triton X-100 and Tween-20.
tRNA	Sigma-Aldrich	83853-100mg	
Tween-20	use your standard product in the lab		Use one or both of Triton X-100 and Tween-20.
Western Blue	Promega Corp.		