

Materials List for:

Atomic Force Microscopy of Red-Light Photoreceptors Using PeakForce Quantitative Nanomechanical Property Mapping

Marie E. Kroeger¹, Blaire A. Sorenson², J. Santoro Thomas², Emina A. Stojković¹, Stefan Tsonchev², Kenneth T. Nicholson²

¹Department of Biology, Northeastern Illinois University

²Department of Chemistry, Northeastern Illinois University

Correspondence to: Kenneth T. Nicholson at k-nicholson@neiu.edu

URL: <https://www.jove.com/video/52164>

DOI: [doi:10.3791/52164](https://doi.org/10.3791/52164)

Materials

Name	Company	Catalog Number	Comments
Tris-HCl	Fisher Scientific	O4997-100	
NaCl	Acros Organics	7647-14-5	
MgCl ₂	Acros Organics	7791-18-6	
Multimode 8 AFM	Bruker-Nano	492-008-011	equipped with Nanoscope V controller and J scanner
Probe	Bruker-Nano	SNL-10, ScanAsyst-Fluid+	
Tapping Mode Fluid Cell	Bruker-Nano	MTFML	
Mica V-4 Grade	SPI supplies	1150503	25 x 25 x .26 mm
Sample support disk	nanoSurf	BT02236	
Petri dish	Plasta-Medic, Inc.		100 mm x 15 mm
micropipettors	Denville Scientific	XL 3000i	
RpBphP3			Prepared according to cited references
Nanoscope software	Bruker-Nano		
Fiber Optic Light	Digital Instruments Inc.	F0-50	
Pelco AFM Disc Gripper	Ted Pella Inc	1668	12 mm
1 ml syringe	McKesson	102-ST1C	
Eppendorf tubes	Denville Scientific	C2171	
The Pymol Molecular Graphic System v.1.5.0.1	Schrodinger, LLC		