

Materials List for:

Assembling Molecular Shuttles Powered by Reversibly Attached Kinesins

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URL: <https://www.jove.com/video/59068>

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Materials

Name	Company	Catalog Number	Comments
488 nm laser	Omicron Laserage	LuxX 488-150	
642 nm laser	Omicron Laserage	LuxX 642	
Casein	Sigma	C7078-500G	
Catalase from bovine liver	Sigma	C40-500MG	
Creatine Phosphate	Sigma	P-7936	
Creatine Phosphokinase	Sigma	C3755-500UN	
D-Glucose	Sigma	G2133-50KU	
Dichlorodimethylsilane solution	Sigma	40140-25ML	Toxic
Dimethyl Sulfoxide	Sigma	34869-100ML	
Dithiothreitol	Sigma	D0632-5G	Toxic
Eclipse TI	Nikon Instruments		
eGFP rkin430	Provided by George Bachand		
EGTA	Sigma	E4378-25G	
Falcon 50 mL Conical Centrifuge Tubes	Fisher Scientific	14-959-49A	
Glucose Oxidase	Sigma	G0543-10KU	
Guanosine Triphosphate	Sigma	G8877-10MG	
Kimwipes Delicate Task Wipers	Sigma Pharmaceuticals	8089	
Magnesium Chloride	Sigma	M1028-100ML	
Methanol	Fisher Chemical	A412	Toxic
Milli-Q Water Purification System	Millipore Corporation		
Nickel Sulfate	Sigma	656895-50G	
Paclitaxel	Sigma	T1912-5MG	
PIPES	Sigma	P-6757	
Pluronic F108-NTA	Provided by Jennifer Neff and AllVivo Vascular		PEG-PPG-PEG-NTA
Pluronic F-108	Sigma	542342-250G	PEG-PPG-PEG
Thermo Scientific Snap Cap Low Retention Microcentrifuge Tubes	Fisher Scientific	21-403-190	
Toluene	Fisher Chemical	T324	Toxic
Tubulin, HiLyte647-labeled	Cytoskeleton, Inc.	TL670M	
UV Ozone Procleaner	BioForce Nanosciences	PC440	
Whatman Puradisc syringe filters	Sigma	WHA67840402	
Zyla 4.2 sCMOS Camera	Andor Technology	sCMOS 4.2	