

Materials List for

Microtubule Plus-End Dynamics Visualization in Huntington's Disease Model based on Human Primary Skin Fibroblasts

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jove.com/video/62963

Materials

Name	Company	Catalog Number	Comments
Instrumentation			
Camera iXon DU897 EMCCD	Andor Technology		
Eppendorf Centrifuge 5804 R	Eppendorf Corporate		
Fluorescence filter set HYQ FITC	Nikon		Alternative: Leica, Olympus, Zeiss
LUNA-II Automated Cell Counte	Logos Biosystems	L40002	
Microscope incubator for lifetime filming	Okolab	Temperature controller H301-T-UNIT-BL-PLUS	
		Gas controller CO2-O2-UNIT-BL	
Objective lens CFI Plan Apo Lambda 60x Oil 1.4 (WD 0.13)	Nikon		Alternative: Leica, Olympus, Zeiss
Widefield fluorescence light microscope Eclipse Ti-E	Nikon		Alternative: Leica, Olympus, Zeiss
Software			
Fiji (Image J version 2.1.0/1.53c)	Open source image processing software		
NIS Elements	Nikon		Alternative: Leica, Olympus, Zeiss
Additional reagents			
Mineral oil (Light white oil)	MP	151694	
Cell culture dish			
Cell Culture Dish	SPL Lifesciences	20035	
Confocal Dish (glass thickness 170 μm)	SPL Lifesciences	211350	Alternative: MatTek

Conical Centrifuge tube	SPL Lifesciences	50015	
Cryogenic Vials	Corning-Costar	430659	
Microcentrifuge Tube	Nest	615001	
Cultivation			
Lipofectamine 3000 Transfection Reagent	Thermo Fisher Scientific	L3000001	
Dimethyl sulfoxide	PanEko	Φ ₁₃₅	
DMEM (Dulbecco's Modified Eagle Media)	PanEko	C420Π	
DPBS (Dulbecco's phosphate-salt solution)	PanEko	P060Π	
Fetal bovine serum (FBS)	Hyclone	K053/SH30071.03	
Gelatin (bovine skin)	PanEko	Φ ₀₇₀	
GlutaMAX	Thermo Fisher Scientific	35050038	
Opti-MEM (1x) + Glutamax	Gibco	519850026	
Penicillin-streptomycin	PanEko	A063Π	
Trypsin-EDTA (0.25%)	Thermo Fisher Scientific	25200072	
Transfection			
Plasmid DNA with EB3-GFP	Kind gift of Dr. I. Kaverina [Vanderbilt University, Nashville] with permission from Dr. A. Akhmanova [Erasmus University, Rotterdam]	Stepanova et al., 2003 DOI: 10.1523/JNEUROSCI.23-07-02655.2003	