

Materials List for:

The *C. elegans* Excretory Canal as a Model for Intracellular Lumen Morphogenesis and *In Vivo* Polarized Membrane Biogenesis in a Single Cell: labeling by GFP-fusions, RNAi Interaction Screen and Imaging

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Materials

Name	Company	Catalog Number	Comments
Cloning			
Plasmid pPD95.75	Addgene	Cat. No. 37464	
PCR Kit	Qiagen	Cat. No. 27106	
Ligation kit	New England Biolabs	Cat. No. E2611L	
DNA marker	Thermo Scientific	Cat. No. SM1331	
Agarose DNA grade	Fisher Scientific	Cat. No. BP164-100	
Competent cells	New England Biolabs	Cat. No. C2987H	
Tris	Fisher Scientific	Cat. No. BP154-1	
EDTA	Sigma	Cat. No. ED-1KG	
Acetic acid	Fisher Scientific	Cat. No. A38S-500	
Ethidium bromide	Fisher Scientific	Cat. No. BP1302-10	
Equipments			
PCR machine	MJ Research	Cat. No. PTG-200	
Centrifuge	Eppendorf	Cat. No. 5415C	
Water Bath	Precision Scientific	Cat. No. 666A3	
Gel running instrument	Fisher Scientific	Cat. No. 09-528-165	
Gel running power supply	Fisher Scientific	Cat. No. 45-000-465	
Molecular Imager Gel Doc XR System	Bio-Rad	Cat. No. 1708195EDU	
Nanodrop Spectrophotometer	Thermo Scientific	Cat. No. ND1000	
<i>C. elegans</i> related¹			¹ see reference ¹⁹ for standard <i>C. elegans</i> culture and maintenance procedures.
LB Medium and plates²			² see reference ¹⁹ for protocols.
Tryptone	Acros Organics	Cat. no. 611845000	
Yeast Extract	BD Biosciences	Cat. no. 212750	
NaCl	Sigma	Cat. no. S7653	
Bacto Agar	BD Biosciences	Cat. no. 214040	
Ampicillin	Sigma	Cat. no. A0116	
Tetracycline	Fisher Scientific	Cat. no. BP912	
M9 Medium²			² see reference ¹⁹ for protocols.
NaCl	Sigma	Cat. no. S7653	

KH ₂ PO ₄	Sigma	Cat. no. P0662	
Na ₂ HPO ₄	Sigma	Cat. no. S7907	
MgSO ₄	Sigma	Cat. no. M2773	
NGM plates ²			² see reference ¹⁹ for protocols.
NaCl	Sigma	Cat. no. S7653	
Peptone	BD Biosciences	Cat. no. 211677	
Tryptone	Acros Organics	Cat. no. 611845000	
Bacto Agar	BD Biosciences	Cat. no. 214040	
MgSO ₄	Sigma	Cat. no. M2773	
CaCl ₂	Sigma	Cat. no. C3881	
Cholesterol	Sigma	Cat. no. C8667	
K ₂ HPO ₄	Sigma	Cat. no. P3786	
KH ₂ PO ₄	Sigma	Cat. no. P0662	
RNAi plates ³			³ see reference ²¹ for protocols.
NaCl	Sigma	Cat. no. S7653	
Peptone	BD Biosciences	Cat. no. 211677	
Tryptone	Acros Organics	Cat. no. 611845000	
Bacto Agar	BD Biosciences	Cat. no. 214040	
MgSO ₄	Sigma	Cat. no. M2773	
CaCl ₂	Sigma	Cat. no. C3881	
Cholesterol	Sigma	Cat. no. C8667	
K ₂ HPO ₄	Sigma	Cat. no. P3786	
KH ₂ PO ₄	Sigma	Cat. no. P0662	
IPTG	US Biological	Cat. no. I8500	
Carbenicillin	Fisher Scientific	Cat. no. BP2648	
NaOH	Fisher Scientific	Cat. no. SS266-1	
Sodium hypochlorite	Fisher Scientific	Cat. no. 50371500	
Bacteria			
OP50 bacteria	CGC		
HT115 bacteria	CGC		
Genome-wide RNAi libraries			
Ahringer genome-wide RNAi feeding library (ref ^{21,58,59})	Source BioScience		
C. elegans ORF-RNAi feeding library (ref ⁶⁰)	Source BioScience		
Imaging related			
Lidocaine	MP Biomedicals,LLG	Cat. no. 193917	
Materials			
Vacuum Grease Silicone	Beckman	Cat. no. 335148	
Microscope slides	Fisher Scientific	Cat. no. 4448	
Tissue culture plate, 6 well	Corning Inc.	Cat. no. 08-772-33	
Equipment			
SMZ-U dissecting microscope (Nikon)			
SZX12 dissecting microscope (Olympus), equipped with a			

high-power stereo fluorescence attachment (Kramer Scientific), CCD camera with Q capture software and X-Cite fluorescent lamp (Photonic Solutions).			
TCS SL Laser-scanning confocal microscope (Leica Microsystem)			
C2 laser-scanning confocal mounted on an ECLIPSE Ti-E inverted microscope (Nikon)			