

Materials List for:

Expression and Purification of the Cystic Fibrosis Transmembrane Conductance Regulator Protein in *Saccharomyces cerevisiae*

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URL: <https://www.jove.com/video/3860>

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Materials

Name	Company	Catalog Number	Comments
FGY217 <i>S.cerevisiae</i> strain, with <i>pep4</i> deletion ¹⁰			
Yeast nitrogen base without amino acids	Formedium	CYN0410	
Complete supplement mixture without uracil	Formedium	DCS0169	
Bacteriological agar	Sigma-Aldrich	A5306	
D-galactose	Fisher	BP656-500	
D-glucose	Fisher	D16-500	
Pepstatin A	Sigma-Aldrich	P4265	
Leupeptin	Merck	108975	
Chymostatin	Sigma-Aldrich	C7268	
Phenylmethanesulfonyl fluoride (PMSF)	Sigma-Aldrich	P7626	
Epoxysuccinyl-leucylamido-butane (E-64)	Sigma-Aldrich	E3132	
Amin-thylbenzenesulfonyl fluoride (AEBSF)	Sigma-Aldrich	A8456	
Benzamidine hydrochloride	Sigma-Aldrich	434760	
Dimethylsulfoxide (DMSO)	Sigma-Aldrich	D8418	
dithiothreitol (DTT)	Sigma-Aldrich	43815	
ethylenediaminetetraacetic acid (EDTA)	Fisher	BP120500	
Tris-base	Formedium	TRIS01	
Tris-HCl	Fisher	P631	
D-sorbitol	Sigma-Aldrich	S1876	
Glycerol	Fisher	065017	
NaCl	Sigma-Aldrich	S6191	
<i>n</i> -dodecyl-β-D-maltopyranoside	Affymetrix	D310S	
Bromophenol blue	Sigma-Aldrich	114391	
PageRuler Plus prestained protein standards	Fermentas	SM1811	
NuSep tris-gly 4-20% gradient gels	NuSep	NB10-420	
Instant Blue Coomassie Stain	Novexin	ISB1L	
Glass beads, acid washed	Sigma	G8772	
50ml Sterile Falcon Tubes	Sarstedt	62.547.254	

2ml Sterile screw-top vials	Sarstedt	72.694.005	
250ml Sterile Erlenmeyer baffled flasks	BD Biosciences	355119	
2l Sterile Erlenmeyer baffled flasks	BD Biosciences	355131	
2ml microfuge tubes	Sarstedt	72.695	
0.2µM syringe filter	Sartorius	FC121	
ultracentrifuge tubes	Beckman Coulter	355618	
centrifuge tubes	Beckman Coulter	357000	
1l centrifuge pots	Beckman Coulter	969329	
Orbital shaking incubator with temperature control	New Brunswick Scientific		
Deltavision RT restoration microscope	Applied Vision		
Benchtop centrifuge	HERMLE	Z300	
Benchtop microfuge	Fisher	13-100-511	
Vortex mixer	Star Labs		
Typhoon Trio Scanner	GE Healthcare	63-0055-87	
LAS3000 imaging system	Fuji		
20l fermenter vessel and control unit	Applikon		
Constant systems cell disrupter	Constant systems		
Beadbeater cell disrupter	BioSpec	1107900	
Mini-beadbeater-16	BioSpec	607	
JA-17 rotor	Beckman Coulter	369691	
Optima L-100 Ultracentrifuge	Beckman Coulter	392050	
50.2Ti rotor	Beckman Coulter	337901	