

Materials List for:

Cell-free Protein Expression Using the Rapidly Growing Bacterium *Vibrio natriegens*

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URL: <https://www.jove.com/video/59495>

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Materials

Name	Company	Catalog Number	Comments
15 mL Tubes	Corning	352196	
2 mL Tubes	Eppendorf	22363352	
384-well Black Assay Plates	Corning	3544	
384-well PCR Plates	Eppendorf	951020702	
50 mL Tubes	Corning	352070	
96-well PCR Plates	Eppendorf	30129300	
Adenosine 3',5'-cyclic monophosphate sodium salt monohydrate	Sigma	A6885	
Adenosine 5'-triphosphate - 100 mM	NEB	N0450L	
Applied Biosystems Veriti 384-well Thermocycler	ThermoFisher	4388444	
Assay Plate Adhesives	BioRad	MSB1001	
β -Nicotinamide adenine dinucleotide hydrate (NAD)	Sigma/Roche	10127965001	
Coenzyme A hydrate	Sigma	C4283	
Cytidine 5'-triphosphate - 100 mM	NEB	N0450L	
D-(-)-3-Phosphoglyceric acid disodium salt (3-PGA)	Sigma	P8877	
Dewar Flask - 4L	ThermoScientific	10-194-100C	
DL-Dithiothreitol solution - 1 M	Sigma	42816	
Folinic acid calcium salt hydrate	Sigma	47612	
Glacial Acetic Acid	Sigma	A6283	
Guanosine 5'-triphosphate - 100 mM	NEB	N0450L	
HEPES	Sigma	H3375	
L-Glutamic acid hemimagnesium salt tetrahydrate	Sigma	49605	
L-Glutamic acid potassium salt monohydrate	Sigma	G1149	
LB Broth (Miller)	Sigma	L3522	
Magnesium chloride (MgCl ₂)	Sigma	M8266	
Plasmid pJL1-sfGFP	Addgene	69496	

Plasmid Plus <i>Maxi</i> kit	Qiagen	12963	
Poly(ethylene glycol) (PEG)-8000	Sigma	89510	
Potassium chloride (KCl)	Sigma	P9333	
Potassium hydroxide Pellets	Sigma/Roche	1050121000	
Q125 Sonicator and CL-18 probe with a 1/8-inch tip	Qsonica	4422	
RNA Clean and Concentrator Kit	Zymo	R1013	
RNase Inhibitor, Murine	NEB	M0314	
RTS Amino Acid Sampler	Biotechrabbit	BR1401801	
Sodium chloride (NaCl)	Sigma	S7653	
Spermidine	Sigma	S0266	
T7 RNA Polymerase	NEB	M0251	
Tris Solution (pH 8.0) - 1 M	Invitrogen	AM9856	
tRNA from <i>E. coli</i> MRE 600	Sigma/Roche	10109541001	
Uridine 5'-triphosphate - 100 mM	NEB	N0450L	
<i>Vibrio natriegens</i> (Wild-type) Lyophilized Stock	ATCC	14048	