

Materials List for

OnePot PURE Cell-Free System

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Materials

Name	Company	Catalog Number	Comments
10x Tris/Glycine/SDS buffer	Bio-Rad Laboratories	1610732	
15 mL centrifuge tubes	VWR International	525-0309	
384-well Black Assay Plates	Corning	3544	
4-20% Mini-PROTEANRTM TGXTM Precast Protein Gels	Bio-Rad Laboratories	4561096	
50 mL centrifuge tubes	VWR International	525-0304	
96-Well Polypropylene DeepWell plate	Nunc	260252	
Acetic acid, 99.8 %	Acros	222140010	
Äkta purifier	GE Healthcare		purification of tag free ribosomes
AMICON ULTRA 0.5 mL - 3 KDa	Merck Millipore	UFC500324	
AMICON ULTRA 15 mL - 3 KDa	Merck Millipore	UFC900324	
Amino acids	Sigma-Aldrich	LAA21-1KT	
Ammonium chloride	Sigma-Aldrich	09718-250G	
Ammonium sulfate	Sigma-Aldrich	A4418	
Ampicillin	Condalab	6801	
BenchMark Fluorescent Protein Standard	ThermoFisher	LC5928	
Breathe-Easy sealing membrane	Diversified Biotech	Z380059-1PAK	
Centrifuge tubes polycarbonate	Beckman	355631	purification of tag free ribosomes
Chill-out Liquid Wax	Bio-Rad Laboratories	CHO1411	
Creatine phosphate	Sigma-Aldrich	27920	
DNA Clean & Concentrator-25 (Capped)	Zymo	ZYM-D4034-200TS	
DTT	SantaCruz Biotech	sc-29089B	
Econo-Pac Chromatography Columns	Bio-Rad Laboratories	7321010	
EDTA (Ethylenediaminetetraacetic acid)	Sigma-Aldrich	03609-250G	
Eppendorf Protein LoBind microcentrifuge tubes	VWR International / Eppendorf	525-0133	

Falcon 14 mL Round Bottom Polystyrene Test Tube, with Snap Cap	Falcon	352051	
Flasks, baffled 1000 mL 4 baffles, borosilicate glass	Scilabware	9141173	
FluoroTect Green Lys in vitro Translation Labeling System	Promega	L5001	optional
Folinic acid	Sigma-Aldrich	PHR1541	
Glycerol	Sigma-Aldrich	G7757-1L	
HEPES	Gibco	15630-056	
HiTrap Butyl HP Column	GE Healthcare	28411005	purification of tag free ribosomes
IMAC Sepharose 6 Fast Flow	GE Healthcare	17-0921-07	
Imidazole	Sigma-Aldrich	I2399	
InstantBlue	Expedeon	ISB1L-1L	
IPTG (Isopropyl-beta-D-thiogalactoside)	Alfa Aesar	B21149.03	
Laemmli buffer (2x), sample buffer	Sigma-Aldrich	S3401-1VL	
Lysogeny broth (LB) media	AppliChem	A0954	
Magnesium acetate	Sigma-Aldrich	M0631	
Magnesium chloride	Honeywell Fluka	63020-1L	
Nickel Sulfate	Alfa Aesar	15414469	
NTP	ThermoFisher	R0481	
Phusion High-Fidelity DNA Polymerase (2 U/μL)	ThermoFisher	F530S	
Potassium chloride	Sigma-Aldrich	P5405-1KG	
Potassium glutamate	Sigma-Aldrich	49601	
PURExpress In Vitro Protein Synthesis Kit	NEB	E6800S	
PURExpress Δ Ribosome Kit	NEB	E3313S	
Quick Start Bradford 1x Dye Reagent	Bio-Rad Laboratories	5000205	
Rapid-Flow Sterile Single Use Vacuum Filter Units	ThermoFisher	564-0020	
RNaseA solution	Promega	A7973	
SealPlate film	Excel Scientific	Z369659-100EA	
Sodium hydroxide	Sigma-Aldrich	6203	
Spermidine	Sigma-Aldrich	S2626	
Sucrose	Sigma-Aldrich	84097	
TCEP (Tris(2-carboxyethyl)phosphine-hydrochloride)	Sigma-Aldrich	646547-10X1mL	
Thickwall Polycarbonate Tube	Beckman	355631	
Trichloroacetic acid	Sigma-Aldrich	T0699	
Tris base	ThermoFisher	BP152-500	
tRNA	Roche	10109541001	
Ultracentrifuge Optima L-80	Beckman		purification of tag free ribosomes
Whatman GD/X syringe filters	GE Whatman	WHA68722504	
β-mercaptoethanol	Sigma-Aldrich	M6250-100mL	