

Materials List for:

Toeprinting Analysis of Translation Initiation Complex Formation on Mammalian mRNAs

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Materials

Name	Company	Catalog Number	Comments
DEPC (Diethyl pyrocarbonate)	Sigma	D5758-100ML	
TRIS base, Ultrapure	JT Baker	4109-01	
KOAc (Potassium acetate)	Bio Basic	PB0438	
Mg(OAc) ₂ (Magnesium acetate tetrahydrate)	Bio Basic	MB0326	
Sucrose, molecular biology grade	Calbiochem	573113-1KG	
Spermidine	Sigma	85558	
GMP-PNP (Guanosine 5'-[β,γ-imido]triphosphate trisodium salt hydrate) 0.1 M solution	Sigma	G0635	
ATP (Adenosine 5'-triphosphate) disodium salt, 100 mM solution	Sigma	A6559	
19:1 Acrylamide:bis-acrylamide, 40%	Bio Basic	A0006	
Urea	Bio Basic	UB0148	
500mL bottle top filtration units, 0.2 μm	Sarstedt	83.1823.101	
Formamide	Sigma	F9037-100ML	
EDTA (disodium salt, dihydrate)	Bio Basic	EB0185	
SDS	Bio Basic	SB0485	
Bromophenol blue	Bio Basic	BDB0001	
Xylene cyanol FF	Bio Basic	XB0005	
MEGAscript T7 transcription kit	Ambion	AM1354	
mMESSAGE mMACHINE T7 transcription kit	Ambion	AM1344	
Acid Phenol:Chloroform (5:1)	Ambion	AM9722	
25:24:1 Phenol:Chloroform:Isoamyl Alcohol	Invitrogen	15593-049	
Rabbit Reticulocyte Lysate (RRL). Should NOT be nuclease-treated.	Green Hectares, USA		Contact Green Hectares, ask for 1:1 RRL:water
RiboLock RNase Inhibitor (40 U/μL)	Thermo Fisher	E00382	
100 mM dNTPs	Invitrogen	56172, 56173, 56174, 56175	Mix equal parts for a stock of 25 mM each.
AMV-RT, 10 U/μL	Promega	M5101	

Sequenase Version 2.0 DNA Sequencing Kit	Thermo Fisher	707701KT	
Model 4200 IR2 DNA analyzer	LI-COR		Product has been discontinued
APS (Ammonium Persulfate)	Bio Basic	AB0072	
TEMED	Bio Basic	TB0508	
Phusion High Fidelity Polymerase	New England Biolabs	M0530	
Turbo Dnase	Thermo Fisher	AM2238	