

Materials List for:

Analysis of RNA Processing Reactions Using Cell Free Systems: 3' End Cleavage of Pre-mRNA Substrates *in vitro*

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Materials

Name	Company	Catalog Number	Comments
1 L Celstir flask	Wheaton	356884	Different sizes available
4 position slow speed stirrer	VWR	12621-076	
Swinging bucket centrifuge	Beckman Coulter		Allegra x-15R with SX4500 Rotor
Ultracentrifuge	Beckman Coulter		Optima L-100 XP Ultra with SW41 Rotor
Table top centrifuge 5417R	Eppendorf		Refridgerated
Thermomixer incubator	Eppendorf		
250 ml conical tubes	Corning	430776	
50 ml conical tubes	BD Falcon	352098	
Ultraclear centrifuge tubes	Beckman Coulter	344059	
JOKLIK modified MEM	Lonza	04-719Q	
Fetal bovine serum	Atlas	F-0500-A	Heat inactivated
L-glut:pen:strep	Gemini Bio-Products	400-110	
1 M Tris-HCl pH 8.0	Mediatech	46-031-CM	
Magnesium chloride	Fisher	BP214-500	
Potassium chloride	MP Biomedicals	194844	
HEPES	Fisher	BP310-500	
DTT	Alexis Biomedicals	280-001-G-010	
Glycerol	Fisher	BP229-4	
5 M sodium chloride solution	Mediatech	46-032-CV	
EDTA 0.5 M solution	Sigma-Aldrich	E7889-100ml	
EDTA	Fisher	BP120-500	
PMSF	Thermo Scientific	36978	
Ammonium sulfate	Fisher	A702-500	
Complete EDTA-free protease inhibitor cocktail tablets	Roche	04 693 132 001	
Slide-A-Lyzer Dialysis Cassettes Kit	Thermo Scientific	66372	MWCO 7,000 0.5 ml-3 ml
15 ml Dounce tissue grinder set	Sigma-Aldrich	D9938-1SET	Different sizes available
Expand high fidelity PCR kit	Roche	11 732 650 001	
10 mM dNTP Mix	Invitrogen	Y02256	10 mM each nucleotide
MaxiScript SP6/T7 kit	Ambion	AM1322	
m7G(5')ppp(5') G RNA cap	New England Biolabs	S1404S	
Century Marker Template Plus	Ambion	AM7782	

Easytides UTP [α - 32 P] 250 μ Ci	Perkin Elmer	BLU507H250UC	
Gel loading buffer II	Ambion	8546G	
DEPC treated water	Ambion	AM9906	
10x TAE	Fisher	BP13354	
10x TBE	Ameresco Life Sciences	0658-4L	
10x PBS	Fisher	BP399-20	
Urea	Fisher	BP169-212	
Ammonium persulfate	Bio-Rad	161-0700	
TEMED	Fisher	BP150-20	
Ammonium acetate	Fisher	A637-500	
40% 19:1 acrylamide:bis-acrylamide	Bio-Rad	161-0144	
Glycogen	Roche	10 901 393 001	
100% absolute ethanol 200 proof	Acros	61509-0040	
Acid phenol:chloroform	Ambion	9720	For RNA
Scintillation fluid	Fisher	SX18-4	
Rnase inhibitor	Promega	N261B	
Polyvinyl alcohol- PVA	Sigma-Aldrich	P8136-250G	
Creatine phosphate	Calbiochem	2380	
100 mM dATP	Fisher	BP2560-4	
SDS	Acros	23042-5000	
Proteinase K	Fisher	BP1700-100	
Adjustable sequencing unit	Sigma-Aldrich	Z351881-1EA	
Binder clips	Office Depot	838-056	
20 cm x 42 cm glass plates	Sigma-Aldrich	Z352543	1 SET
20 cm x 22 cm glass plates	Sigma-Aldrich	Z35252-7	1 SET
20 cm x 42 cm aluminum cooling plates	Sigma-Aldrich	Z352667	1 EA
0.4 mm x 22 cm spacers	Sigma-Aldrich	Z35230-6	1 SET
0.4 mm x 42 cm spacers	Sigma-Aldrich	Z352314-1	1 SET
8-well comb	Sigma-Aldrich	Z35195-4	1 EA
16-well comb	Sigma-Aldrich	Z351962	1 EA
32-well comb	Sigma-Aldrich	Z351970	1 EA
Gel repel coating	C.B.S. Scientific	SGR-0401	or SGR-0101 for individual bottle
Gel loading tips	Rainin	GT-10-4	0.1-10 μ l
Sequencing PowerPac HV	Bio-Rad	PowerPac HV	5,000 V/500 mA/400 W
Gel Dryer Model 583	Bio-Rad	Model 583	
Hydrotech vacuum pump for gel dryer	Bio-Rad		
Glogos II Glow-in-the-dark markers	Agilent	420201	
Film 8 x 10	Midsci	BX810	
Film 14 x 17	Phenix	F-BX1417	
Autoradiography cassette	Fisher	FBCA 1417	8 x 10 size available