

Materials List for

Global Identification of Co-Translational Interaction Networks by Selective Ribosome Profiling

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Materials

Name	Company	Catalog Number	Comments
3'-Phosphorylated 28 nt RNA control oligonucleotide	IDT	custom order	RNase free HPLC purification; 5'-AUGUAGUCGGAGUCGAGGCCGCGACGCGA/3Phos/-3'
Absolute ethanol	VWR	20821	
Acid phenol-chloroform	Ambion	AM9722	
Antibody: mouse monoclonal anti-HA	Merck	11583816001	12CA5
Aprotinin	Roth	A162.3	
ATP*	NEB	P0756S	10 mM
Bacto agar	BD	214030	
Bacto peptone	BD	211820	
Bacto tryptone	BD	211699	
Bacto yeast extract	BD	212720	
Bestatin hydrochloride	Roth	2937.2	
Chloroform	Merck	102445	
CircLigase II ssDNA Ligase*	Epicentre	CL9025K	100 U/μL
Colloidal Coomassie staining solution	Roth	4829	
cOmplete, EDTA-free protease inhibitor cocktail tablets	Roche Diagnostics	29384100	
Cycloheximide	Biological Industries	A0879	
DEPC treated and sterile filtered water*	Sigma	95284	
D-Glucose anhydrous	Merck	G5767-500G	
Diethylpyrocarbonate	Roth	K028	
Dimethylsulfoxide*	Sigma-Aldrich	276855	
DNA ladder, 10 bp O'RangeRuler*	Thermo Fisher Scientific	SM1313	
DNA loading dye*	Thermo Fisher Scientific	R0631	6×
DNase I, recombinant	Roche	4716728001	RNase free
dNTP solution set*	NEB	N0446S	
EDTA*	Roth	8043	

Glycerol	VWR	24388.260.	
Glycine solution	Sigma-Aldrich	67419-1ML-F	1 M
GlycoBlue	Ambion	AM9516	15 mg/mL
HEPES	Roth	HN78.3	
HF Phusion polymerase*	NEB	M0530L	
HK from <i>S. cerevisiae</i>	Sigma-Aldrich	H6380-1.5KU	
Hydrochloric acid	AppliChem	A1305	
Isopropanol	Sigma-Aldrich	33539	
Isopropyl β-D-1-thiogalactopyranoside	Roth	CN08	
Kanamycin	Roth	T832.4	
KCl	Roth	6781.1	
KH ₂ PO ₄	Roth	3904.1	
Leupeptin	Roth	CN33.4	
Linker L(rt)	IDT	custom order	
Liquid nitrogen			
MgCl ₂	Roth	KK36.3	
Na ₂ HPO ₄	Roth	P030.2	
Na ₂ HPO ₄ ·2H ₂ O	Roth	T879.3	
NaCl*	Invitrogen	AM97606	5 M
NaH ₂ PO ₄ ·H ₂ O	Roth	K300.2	
NHS-activated Sepharose 4 fast-flow beads	GE Life Sciences	17090601	
Nonidet P 40 substitute	Sigma	74385	
Pepstatin A	Roth	2936.2	
Phenylmethyl sulfonyl fluoride	Roth	6367	
Precast gels	Bio-Rad	5671034	10% and 12%
RNase I	Ambion	AM2294	
SDS, 20%	Ambion	AM9820	RNase free
Sodium acetate*	Ambion	AM9740	3 M, pH 5.5
Sodium azide	Merck	S8032-100G	
Sodium chloride	Roth	9265	
Sodium hydroxide*	Sigma	S2770	1 N
Sucrose	Sigma-Aldrich	16104	
SUPERase-In RNase Inhibitor	Ambion	AM2694	
Superscript III Reverse Transcriptase*	Invitrogen	18080-044	
SYBR Gold*	Invitrogen	S11494	
T4 polynucleotide kinase*	NEB	M0201L	
T4 RNA ligase 2*	NEB	M0242L	
TBE polyacrylamide gel*	Novex	EC6215BOX	8%
TBE-urea polyacrylamide gel*	Novex	EC68752BOX	10%
TBE-urea polyacrylamide gel*	Novex	EC6885BOX	15%
TBE-urea sample buffer*	Novex	LC6876	2×
Tris	Roth	4855	
Tris*	Ambion	AM9851	1 M, pH 7.0
Tris*	Ambion	AM9856	1 M, pH 8.0
UltraPure 10× TBE buffer*	Invitrogen	15581-044	

* - for library preparation			
gasket and spring clamp , 90 mm,	Millipore	XX1009020	
ground joint flask 1 L ,	Millipore	XX1504705	