

Materials List for:

Dual DNA Rulers to Study the Mechanism of Ribosome Translocation with Single-Nucleotide Resolution

Heng Yin¹, Shoujun Xu¹, Yuhong Wang²

¹Department of Chemistry, University of Houston

²Department of Biology and Biochemistry, University of Houston

Correspondence to: Shoujun Xu at sxu7@uh.edu, Yuhong Wang at ywang60@uh.edu

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Materials

Name	Company	Catalog Number	Comments
Styrene Strip	City of Industry	MS-861	
Glass slides	Evaporated Coatings		60.0 × 4.0 × 0.3 mm ³
Acetic acid	Millipore Sigma	A6283-500ML	
3-Aminopropyltriethoxysilane	UCT specialties	21400088	
mPEG-SVA	Laysan Bio	154-82	
Biotin-PEG-SVA	Laysan Bio	152-84	
Sodium bicarbonate	Millipore Sigma	S5761-500G	
Epoxy glue	Devcon	31345	
Streptavidin	ThermoFisher	434301	
Fusidic Acid	Millipore Sigma	F0756-1G	
Neomycin Sulfate	Millipore Sigma	1458009	
Viomycin Sulfate	Millipore Sigma	1715000	
Hygromycin	invitrogen	10687-010	
Tris-HCl	Millipore Sigma	T5941-100G	
Magnesium acetate	Millipore Sigma	M5661-50G	
Ammonium chloride	Millipore Sigma	A9434-500G	
Potassium chloride	Millipore Sigma	P9333-500G	
EDTA	GIBCO	774750	
2-mercaptoethanol	Millipore Sigma	M6250-500ML	
Tween20	Millipore Sigma	P1379-250ML	
GTP	Millipore Sigma	G8877-100MG	
PEP	Millipore Sigma	P7127-100MG	
Pyruvate Kinase	Millipore Sigma	P1506-5KU	
Sucrose	Millipore Sigma	S7903-5KG	
Dynabeads M-280 Streptavidin	ThermoFisher	11205D	
mRNA Oligo	Integrated DNA Technologies	133899727	5'-Bio- CAA CUG UUA AUU AAA UUA AAU UAA AAA GGA AAU AAAA AUG UUU AAU UUU UUA GGG CGC AAU CUA CUG CUG AAC UC-3'
DNA Oligo	Integrated DNA Technologies	157468630	3?- TAA TTT AAT TTA ATT TTT CGA AAU AT50/TEGBio/-5'
DNA Oligo	Integrated DNA Technologies	164845370	3?-AAT TTA ATT TTT CCT TTA AAA AT50/TEGBio/-5'

DNA Oligo	Integrated DNA Technologies	157468628	3?-AAA ATC CCG CGT TAG AAC UGG GG/TEGBio/-5'
DNA Oligo	Integrated DNA Technologies	163472705	3?-CCG CGT TAG ATG ACG AGA ACG GG/TEGBio/-5'
DNA Oligo	Integrated DNA Technologies	138678130	3?-AGA TGA CGA CTT CTC GGG/TEGBio/-5'
DNA Oligo	Integrated DNA Technologies	138678131	3?-T AGA TGA CGA CTT CTC GGG/TEGBio/-5'
DNA Oligo	Integrated DNA Technologies	138678132	3?-TT AGA TGA CGA CTT CTC GGG/TEGBio/-5'
DNA Oligo	Integrated DNA Technologies	138678133	3?-GTT AGA TGA CGA CTT CTC GGG/TEGBio/-5'
Centrifuge	Eppendorf	5427R	
Micro Ultracentrifuge	Hitachi	CS150FNX	
Vortex mixer	VWR	VM-3000	
Lock-in Amplifier	Stanford Research Systems	SR530	
Lock-in Amplifier	Stanford Research Systems	SR830	
Laser	Newport	TLB-6918-D	
Function generator	Stanford Research Systems	DS345	
Photo detectors	Thorlabs	DET36A	