

Materials List for

# DNAzyme 10-23 - Based Nanomachines for Nucleic Acid Recognition

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jove.com/video/66461

## Materials

Name	Company	Catalog Number	Comments
1.5 mL tube	Biofil	CFT011015	
100 bp+ DNA Ladder	Evrogen	NL002	
100-1000 µL pipette	Kirgen	KG-Pro1000	
10-100 µL pipette	Kirgen	KG-Pro100	
1-10 µL pipette	Kirgen	KG-Pro10	
20-200 µL pipette	Kirgen	KG-Pro200	
2-20 µL pipette	Kirgen	KG-Pro20	
4x Gel Loading Dye	Evrogen	PB020	
Acrylamide 4K	AppliChem	A1090,0500	
Ammonium persulfate	Carl Roth	2809447	
Biorender	Biorender		<a href="https://www.biorender.com">https://www.biorender.com</a>
Bisacrylamide	Molekula	22797959	
Boric Acid	TechSnab	H-0202	
ChemiDoc imaging system	BioRad	12003153	
Costar 96-Well Black Polystyrene Plate	Corning	COS3915	
DinaMelt	RNA Institute		<a href="http://www.unafold.org/Dinamelt/applications/two-state-melting-hybridization.php">http://www.unafold.org/Dinamelt/applications/two-state-melting-hybridization.php</a>
EDTA	Amresco	Am-O105	
Ethidium bromide	BioLabMix	EtBr-10	
HEPES	Amresco	Am-O485	
Magnesium chloride	AppliChem	131396	
Mini Protean Tetra Cell	BioRad	1658001EDU	
pipette 10 µL tips	Kirgen	KG1111-L	
pipette 1000 µL tips	Kirgen	KG1636	
pipette 200 µL tips	Kirgen	KG1212-L	
Pixelmator Pro	Pixelmator Team		<a href="https://www.pixelmator.com/pro/">https://www.pixelmator.com/pro/</a>

Potassium chloride	Carl Roth	1782751	
PowerPac Basic Power Supply	BioRad	1645050	
RNAse/DNAse free water	Invitrogen	10977049	
Sealing film for PCR plates	Sovtech	P-502	
Sodium chloride	Vekton	HCh (0,1)	
Spark multimode microplate reader	Tecan	Spark- 10M	
T100 amplifier	BioRad	10014822	
TEMED	Molekula	68604730	
Tris(hydroxymethyl)aminomethane	Amresco	Am-O497	
UNAFold	RNA Institute		<a href="http://www.unafold.org/mfold/applications/dna-folding-form.php">http://www.unafold.org/mfold/applications/dna-folding-form.php</a>
Water bath	LOIP	LB-140	
<b>Oligos used</b>			
<b>Analyte:</b>	Evrogen		direct order, standard desalting purification
GAGCACTTGGTCAGGCACACGG ACAGGGTCAGCGGAGGACGCG TGGCACAGCAGCCCGGGGTAG GTCCCCTGGACCTGCCGCTGG CGGACTACGCCTTCGTTGC			
<b>Tile-Arm3:</b>	Evrogen		direct order, standard desalting purification
CCG GGCTGCTGTGCCATTTT TTGCTGACTACTGTCACCTCT CTGCTAGTCT			
<b>Dzb-Tile:</b> AGACTAGCAGAGAGGTGACAG TAGTCAGCTTTTTTCGCGTCCTC CGCTGACCACAACGAGAGGAA ACCTT	Evrogen		direct order, standard desalting purification
<b>Dza:</b> TGCCCAGGGAGGCTAGCTCT GTCCGTGTGCCTGACCA	Evrogen		direct order, standard desalting purification
<b>F-sub oligonucleotide:</b> AAGGTT(FAM)TCCTCrGrU CCCTGGGCA-BHQ1	DNA-Syntez		direct order, HPLC purification