

Materials List for:

# High Throughput Yeast Strain Phenotyping with Droplet-Based RNA Sequencing

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## Materials

Name	Company	Catalog Number	Comments
0.22 um syringe filter	Milipore Sigma	SLGP033RS	
0.5M EDTA, pH 8.0	Thermo-Fisher	15575020	Used to make TE-TW buffer
0.75 mm biopsy punch	World Precision Instruments	504529	
1 mL syringes	BD	309628	
1H,1H,2H-Perfluoro-1-Octanol (PFO)	Sigma-Aldrich	370533	
1M Tris-HCl, pH 8.0	Thermo-Fisher	15568025	Used to make TE-TW buffer
27 gauge needles	BD	305109	
3 mL syringes	BD	309657	
3" silicon wafers, P type, virgin test grade	University Wafers	447	
3D-printed centrifuge syringe holder	(custom)	(custom)	See Supplemental Files for 3D print file
Agarose, low gelling temperature	Sigma-Aldrich	a9414	
Aquapel (hydrophobic glass treatment)	Pittsburgh Glass Works	47100	
Drop-Seq Beads	ChemGenes	MACOSKO-2011-10	
Glass microscope slides (75 mm x 50 mm)	Corning	294775X50	
Ionic Krytox Surfactant			Synthesis instructions in ref 14. Can substitute with PEG-PFPE surfactant.
Isopropanol	Sigma-Aldrich	109827	
NaCl	Sigma-Aldrich	S9888	
Novec 7500	3M	98-0212-2928-5	Commonly knowns as HFE 7500
PBS	Fisher Scientific	BP243820	
PE-2 polyethylene tubing	Scientific Commodities	B31695-PE/2	
PEG-PFPE surfactant	Ran Biotechnologies	008-FluoroSurfactant	
PGMEA developer	Sigma-Aldrich	484431	
Photomasks	CadArt Servcies	(custom)	See Supplemental Files for mask designs
Spin coater	Specialty Coating Systems	G3P-8	
SSC Buffer	Sigma-Aldrich	S6639	

SU-8 2100	MicroChem	Y111075	
SU-8 2150	MicroChem	Y111077	
Sylgard 184 silicone elastomer kit	Krayden	4019862	
Tween-20	Sigma-Aldrich	P1379	Used to make TE-TW buffer
YR Digestion buffer	Zymo Research	R1001-1	Spheroplasting buffer
YR Lysis Buffer	Zymo Research	R1001-2	
Zymolyase	Zymo Research	E1005	Spheroplasting enzyme mixture