

Materials List for:

Increasing cDNA Yields from Single-cell Quantities of mRNA in Standard Laboratory Reverse Transcriptase Reactions using Acoustic Microstreaming

Wah Chin Boon¹, Karolina Petkovic-Duran², Yonggang Zhu², Richard Manasseh³, Malcolm K. Horne¹, Tim D. Aumann¹

¹Florey Neuroscience Institutes and Centre for Neuroscience, University of Melbourne

²Fluid Dynamics Group, CSIRO Materials Science and Engineering

³Swinburne University of Technology, Faculty of Engineering and Industrial Sciences

Correspondence to: Yonggang Zhu at yonggang.zhu@csiro.au, Tim D. Aumann at tim.aumann@florey.edu.au

URL: <https://www.jove.com/video/3144>

DOI: [doi:10.3791/3144](https://doi.org/10.3791/3144)

Materials

Name	Company	Catalog Number	Comments
Total RNA was isolated from snap frozen acutely prepared adult mouse midbrain slices			
PicoPure RNA Isolation Kit	Arcturus Bioscience	KIT0204	The kit is now available from Applied Biosystems
DNA-free DNase Treatment and Removal Reagents	Ambion	AM1906M	
Random hexamer primers	Promega Corp.	C1181	
AMV-RT	Promega Corp.	M5101	
dNTP set	Promega Corp.	U1240	
RNasin Ribonuclease Inhibitor	Promega Corp.	N2111	
Nuclease-Free Water	Promega Corp.	P1193	
SYBR Green PCR Master Mix	Applied Biosystems	4309155	
Hprt forward (20mer):CTT TGC TGA CCT GCT GGA TT			
Hprt reverse (20mer):TAT GTC CCC CGT TGA CTG AT			
Nurr1 forward (23mer):CAG CTC CGA TTT CTT AAC TCC AG			
Nurr1 reverse (23mer):GGT GAG GTC CAT GCT AAA CTT GA			
NanoDrop 1000 Spectrophotometer.	Thermo Fisher Scientific, Inc.		
Corbett Rotor Gene RG-6000	Corbett Life Science		Corbett Life Science was acquired by QIAGEN in July 2008