

Materials List for:

Single-cell Gene Expression Profiling Using FACS and qPCR with Internal Standards

Joshua R. Porter¹, William G. Telford², Eric Batchelor¹

¹Laboratory of Pathology, Center for Cancer Research, National Cancer Institute

²Experimental Transplantation and Immunology Branch, Center for Cancer Research, National Cancer Institute

Correspondence to: Eric Batchelor at eric.batchelor@nih.gov

URL: <https://www.jove.com/video/55219>

DOI: [doi:10.3791/55219](https://doi.org/10.3791/55219)

Materials

Name	Company	Catalog Number	Comments
RNeasy Plus Mini Kit	Qiagen	74134	
High Capacity cDNA Reverse Transcription Kit with RNase Inhibitor	ThermoFisher	4374966	
Phusion High-Fidelity DNA Polymerase	New England BioLabs	M0530S	
QIAquick Gel Extraction Kit	Qiagen	28704	
Quant-iT High-Sensitivity dsDNA Assay Kit	ThermoFisher	Q33120	
2.0 ml low adhesion microcentrifuge tubes	USA Scientific	1420-2600	
DNA Suspension Buffer	Teknova	T0221	
Axygen 0.2 ml Maxymum Recovery Thin Wall PCR Tubes	Corning	PCR-02-L-C	
GE 96.96 Dynamic Array DNA Binding Dye Sample & Assay Loading Reagent Kit	Fluidigm	100-3415	
HyClone RPMI 1640 media	GE Healthcare Life Sciences	SH30027.01	
Fetal Bovine Serum, Certified (US)	ThermoFisher	16000-044	
Antibiotic-Antimycotic Solution	Corning	30-004-CI	
Neocarzinostatin	Sigma	N9162	
ELIMINase	Decon Labs	1101	
SUPERase-In	ThermoFisher	AM2696	
CellsDirect One-Step qRT-PCR Kit	ThermoFisher	11753500	
<i>E. coli</i> DNA	Affymetrix	14380 10 MG	
ThermalSeal Sealing Film, Sterile	Excel Scientific	STR-THER-PLT	
BD FACSAria IIu	BD Biosciences		
HyClone Trypsin 0.05%	GE Healthcare Life Sciences	SH30236.01	
PBS, 1x	Corning	21-040-CV	
Falcon 40 µm Cell Strainer	Corning	352340	
Exonuclease I	New England BioLabs	M0293S	
SsoFast EvaGreen Supermix with Low ROX	Bio-Rad	172-5210	
96.96 Dynamic Array IFC for Gene Expression (microfluidic qPCR chip)	Fluidigm	BMK-M-96.96	

IFC Controller HX (loading machine)	Fluidigm		
BioMark or BioMark HD (microfluidic qPCR machine)	Fluidigm		
Real-Time PCR Analysis software	Fluidigm		
MATLAB software	MathWorks		