

Materials List for:

Specific Marking of HIV-1 Positive Cells using a Rev-dependent Lentiviral Vector Expressing the Green Fluorescent Protein

Jia Guo^{*1}, Clinton Enos^{*1}, Yuntao Wu¹

¹National Center for Biodefense and Infectious Diseases, Department of Molecular and Microbiology, George Mason University

*These authors contributed equally

Correspondence to: Yuntao Wu at ywu8@gmu.edu

URL: <https://www.jove.com/video/2198>

DOI: [doi:10.3791/2198](https://doi.org/10.3791/2198)

Materials

Name	Company	Catalog Number	Comments
Biosafety Cabinet			
37°C 5%CO ₂ incubator			
Flow cytometer		FACSCalibur	
Centrifuge	Beckman Coulter Inc.	Allega®6KR	
4°C refrigerator			
-20°C refrigerator			
-80°C refrigerator			
Cell counter	Nexcelom Bioscience	Cellometer® AutoT4	
HEK293T cell line	National Institutes of Health		
CEM-SS cell line	National Institutes of Health		
Jurkat cell line J1.1	National Institutes of Health		
DMEM	Invitrogen	11965-118	
RPMI 1640	Invitrogen	21870	
HI FBS	Invitrogen	10438-018	
HIV-1 _{NL4-3}			prepared by tranfection of HeLa cells with cloned proviral DNA
pNL-GFP-RRE			copmlete deletion of all HIV ORFs of pNL4-3
pNL-GFP-RRE-SA			Insert HIV-1 A5 and D4 into pNL-GFP-RRE
pCMVΔ8.2			provided by Dr. Dider Trono
pHCMV-G			
10 x HBS (Hepes Buffered Saline)	Invitrogen	11344-041	
2M CaCl ₂ buffer	Invitrogen	S-013-154-10	
1% paraformaldehy	Sigma-Aldrich	158127	
Bleach			
50ml Falcon tubes	BD Biosciences	358206	
5ml round bottom tubes	BD Biosciences	352063	
0.45µM Millipore filter	EMD Millipore	SLHA033SS	
0.20µM Millipore filter	EMD Millipore	SLFG85000	
100mm Petri-dish	Sigma-Aldrich	CLS430588	
Size-exclusion column (100,000MW cut off)	Sartorius AG	VS2041	
2ml frozen tube	Axygen Scientific	SCT-200	

96-well plate	BD Biosciences	353227	
1.7mL Microcentrifuge Tube	Axygen Scientific	MCT- 175-C	