

Materials List for:

A High-throughput Cre-Lox Activated Viral Membrane Fusion Assay to Identify Inhibitors of HIV-1 Viral Membrane Fusion

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URL: <https://www.jove.com/video/58074>

DOI: [doi:10.3791/58074](https://doi.org/10.3791/58074)

Materials

Name	Company	Catalog Number	Comments
Dulbecco's Modified Eagle's Medium (DMEM)	Sigma Aldrich	D5546	Media for 293 Cells
RPML-1640	Sigma Aldrich	R0883	Media for Jurkats
Fetal Bovine Serum Albumin	Gibco	16140-071	Serum for 293 Cells
Cosmic Calf Serum	Hyclone	SH30087.03	Serum for Jurkat Cells
Hyclone Pennecillin Streptomycin solution	GE Healthcare Life sciences	SV30010	Penn/Strep used in both media
T75 Flasks	Corning	3073	Used for Culture of Jurkat Cells
10 cm Tissue Culture Plates	Corning	430167	Used for Culture of 293 Cells
96 Well Plates (tissue culture Treated)	Corning	3595	Used for fusion assay
Polyjet Transfection Reagent	Signagen	SL100688	Used to transfect 293 Cells
Dulbecco's Phosphate Buffered Saline	Sigma Aldrich	D8537-100ML	Used in wash steps
Hyclone Trypsin Protease	GE Healthcare Life sciences	SH30042.01	For Trypsinization of 293 cells
Amaya Cell Line Nucleofector Kit V	Lonza	VACA-1003	For Nucleofection of Jurkats
Ficoll-Paque plus	GE Healthcare Life sciences	17144002	For Nucleofection of Jurkats
Serological Pipettes	Fisher Brand	13-678-11E	For all tissue culture
Pipettor Tips	Denville Scientific	P3020-CPS	For all tissue culture and liquid handling steps
Millex Syringe Filter (0.45 µm)	Millipore	SLHA033	For filtration of virus
BD Slip Tip Sterile syringes	BD Diagnostics	309656	For filtration of virus
Amaya Nucleofector	Lonza	2b	for Nucleofection of Jurkats (various models available)
BD Fortessa Flow Cytometer	BD Biosciences		for flow cytometry analysis of samples
Tissue Culture Hood	Various models	Fortessa 2	
pMSCV-loxp-dsRed-loxp-eGFP-Puro-W PRE	Addgene	32702	Koo BK et al. Controlled gene expression in primary Lgr5 organoid cultures. <i>Nature Methods</i> 9 :81-83 (2011).
pCL10a1	Novus Bio	NBP2-29542	Naviaux, RK, Costanzi, E, Haas, M and Verma, I. The pCL vector system: Rapid production of helper-free, high titer, recombinant retroviruses. <i>Journal of Virology</i> 70 : 5701-5705 (1996)
Gag-iCre	Benjamin Chen Lab		Esposito AM et al. A high throughput Cre-lox activated viral

		membrane fusion assay identifies pharmacological inhibitors of HIV entry. Virology 490 :6-16 (2016).
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