

Materials List for:

A Restriction Enzyme Based Cloning Method to Assess the *In vitro* Replication Capacity of HIV-1 Subtype C Gag-MJ4 Chimeric Viruses

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Materials

Name	Company	Catalog Number	Comments
PCR Reagents			
GOF: 5' ATTTGACTAGCGGAGGCTAGAA 3'	IDT DNA	Custom Oligo	25 nmol, standard desalt
VifOR: 5' TTCTACGGAGACTCCATGACCC 3'	IDT DNA	Custom Oligo	25 nmol, standard desalt
GagInnerF1: 5' AGGCTAGAAGGAGAGAGATG 3'	IDT DNA	Custom Oligo	25 nmol, standard desalt
BclIDegRev2: 5' AGTATTTGATCATAYTGYYTYACTT 3'	IDT DNA	Custom Oligo	25 nmol, standard desalt
MJ4For1b: 5' CGAAATCGGCAAATCCC 3'	IDT DNA	Custom Oligo	25 nmol, standard desalt
MJ4Rev: 5' CCCATCTCTCTCCTTCTAGC 3'	IDT DNA	Custom Oligo	25 nmol, standard desalt
BclIRev: 5' TCTATAAGTATTTGATCATACTGTCTT 3'	IDT DNA	Custom Oligo	25 nmol, standard desalt
GagF2: 5' GGGACATCAAGCAGCCAT 3'	IDT DNA	Custom Oligo	25 nmol, standard desalt
For3: 5' CTAGGAAAAAGGGCTGTTGGAAATG 3'	IDT DNA	Custom Oligo	25 nmol, standard desalt
GagR6: 5' CTGTATCATCTGCTCCTG 3'	IDT DNA	Custom Oligo	25 nmol, standard desalt
Rev3: 5' GACAGGGCTATACATTCTTACTAT 3'	IDT DNA	Custom Oligo	25 nmol, standard desalt
Rev1: 5' AATTTTTCCAGCTCCCTGCTTGCCCA 3'	IDT DNA	Custom Oligo	25 nmol, standard desalt
CoolRack PCR 96 XT	Biocision	BCS-529	
CoolRack M15	Biocision	BCS-125	
Nuclease free water	Fisher	SH30538FS	Manufactured by Hyclone
QIAamp Viral RNA Mini Kit	Qiagen	52906	
Simport PCR 8 Strip Tubes, Blue (Flat Cap)	Daigger	EF3647BX	

SuperScript III one-step RT-PCR system	Life Technologies/Invitrogen	12574035	
Phusion Hot-start II DNA polymerase	Fisher	F-549L	
PCR Nucleotide Mix	Roche	4638956001	
Agarose, high gel strength	Fisher	50-213-128	
TAE 10X	Life Technologies/Invitrogen	AM9869	
Promega 1 kb DNA ladder	Fisher	PRG5711	Manufactured by Promega
Sybr Safe DNA Gel Stain, 10,000x	Life Technologies/Invitrogen	S33102	
Wizard SV Gel and PCR Clean-Up System	Promega	A9282	
Razor blades, single-edged	Fisher	12-640	Manufactured by Surgical Design
Thermocycler, PTC-200	MJ Research		
Microbiology & Cloning Reagents			
LB Agar, Miller	Fisher	BP1425-2	
LB Broth, Lennox	Fisher	BP1427-2	
Sterile 100 x 15 mm polystyrene Petri dishes	Fisher	08-757-12	
Ampicillin sodium salt	Sigma-Aldrich	A9518-5G	
Falcon 14 ml Polypropylene round-bottom tubes	BD Biosciences	352059	
NgoMIV restriction endonuclease	New England BioLabs	R0564L	
BclI restriction endonuclease	New England BioLabs	R0160L	
HpaI restriction endonuclease	New England BioLabs	R0105L	
T4 DNA Ligase, 5 U/μl	Roche	10799009001	
JM109 competent cells, >10 ⁸ cfu/μg	Promega	L2001	
PureYield plasmid miniprep system	Promega	A1222	
Safe Imager 2.0 Blue Light Transilluminator	Invitrogen	G6600	
Microfuge 18 centrifuge	Beckman Coulter	367160	
Cell Culture Reagents			
Amphyl cleaner/disinfectant	Fisher	22-030-394	
Fugene HD, 1 ml	VWR	PAE2311	Manufactured by Promega
Hexadimethrine bromide (Polybrene)	Sigma-Aldrich	H9268-5G	
Costar Plates, 6-well, flat	Fisher	07-200-83	Manufactured by Corning Life
Costar Plates, 24-well, flat	Fisher	07-200-84	Manufactured by Corning Life
Costar Plates, 96-well, round	Fisher	07-200-95	Manufactured by Corning Life
Flasks, Corning filter top/canted neck, 75 cm ²	Fisher	10-126-37	
Flasks, Corning filter top/canted neck, 150 cm ²	Fisher	10-126-34	Manufactured by Corning Life
Conical Tubes, 50 ml, blue cap	Fisher	14-432-22	Manufactured by BD Biosciences
Conical Tubes, 15 ml, blue cap	Fisher	14-959-70C	Manufactured by BD Biosciences
Trypsin-EDTA	Fisher	MT25052CI	Manufactured by Mediatech
RPMI, 500 ml	Life Technologies/Invitrogen	11875-119	
DMEM, 500 ml	Life Technologies/Invitrogen	11965-118	

Penicillin/Streptomycin/Glutamine, 100x	Life Technologies/Invitrogen	10378-016	
PBS with magnesium and calcium, 500 ml	Life Technologies/Invitrogen	14040-133	
PBS without magnesium and calcium	Life Technologies/Invitrogen	20012-050	
Sarstedt tubes, assorted colors	Sarstedt	72.694.996	
Reservoir Trays for Multichannel, 55 ml	Fisher	13-681-501	
DEAE-Dextran	Fisher	NC9691007	
Corning 96 well clear V bottom tissue culture treated microplate	Fisher	07-200-96	Manufactured by Corning Life
HEPES, 1 M Buffer Solution	Life Technologies/Invitrogen	15630-080	
FBS, Defined, 500 ml	Fisher	SH30070 03	
X-gal	VWR	PAV3941	Manufactured by Promega
Glutaraldehyde, Grade II, 25% in H ₂ O	Sigma-Aldrich	G6257-100ML	
1 M Magnesium chloride solution	Sigma-Aldrich	M1028-100ML	
Formaldehyde solution, for molecular biology, 36.5%	Sigma-Aldrich	F8775-500ML	
Potassium hexacyanoferrate(II) trihydrate	Sigma-Aldrich	P9387-100G	
Potassium hexacyanoferrate(III)	Sigma-Aldrich	P8131-100G	
Allegra X15-R centrifuge	Beckman Coulter	392932	
TC10 automated cell counter	Bio-Rad	1450001	
VistaVision inverted microscope	VWR		
Reverse-Transcriptase Quantification Assay Reagents			
dTTP, [α - ³³ P]- 3000 Ci/mmol, 10 mCi/ml, 1 mCi	Perkin-Elmer	NEG605H001MC	
1 M Tris-Cl, pH 8.0	Life Technologies/Invitrogen	15568025	Must be adjusted to pH 7.8 with KOH
2 M Potassium chloride (KCl)	Life Technologies/Invitrogen	AM9640G	Adjust to 1 M solution
0.5 M EDTA	Life Technologies/Invitrogen	15575-020	
Nonidet P40	Roche	11333941103	
Polyadenylic acid (Poly rA) potassium salt	Midland Reagent Co.	P-3001	
Oligo d(T) primer	Life Technologies/Invitrogen	18418-012	
Dithiothreitol (DTT)	Sigma-Aldrich	43815-1G	
SR, Super Resolution Phosphor Screen, Small	Perkin-Elmer	7001485	
Corning Costar Thermowell 96-well plate model (M) Polycarbonate	Fisher	07-200-245	Manufactured by Corning Life
Corning 96-well Microplate Aluminum Sealing Tape, Nonsterile	Fisher	07-200-684	Manufactured by Corning Life
DE-81 anion exchange paper	Whatman	3658-915	
Trisodium citrate dihydrate	Sigma-Aldrich	S1804-1KG	
Sodium Chloride	Fisher	S671-3	
Autoradiography cassette	Fisher	FB-CA-810	
Cyclone storage phosphor screen	Packard		