

Materials List for:

A Protocol for the Production of Integrase-deficient Lentiviral Vectors for CRISPR/Cas9-mediated Gene Knockout in Dividing Cells

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Materials

Name	Company	Catalog Number	Comments
Equipment			
Optima XPN-80 Ultracentrifuge	Beckman Coulter	A99839	
Allegra 25R tabletop centrifuge	Beckman Coulter	369434	
xMark Microplate Absorbance plate reader	Bio-Rad	1681150	
BD FACS	Becton Dickinson	338960	
Inverted fluorescence microscope	Leica	DM IRB2	
0.45-µm filter unit, 500mL	Corning	430773	
Conical bottom ultracentrifugation tubes	Seton Scientific	5067	
Conical tube adapters	Seton Scientific	PN 4230	
SW32Ti swinging-bucket rotor	Beckman Coulter	369650	
15 mL conical centrifuge tubes	Corning	430791	
50mL conical centrifuge tubes	Corning	430291	
High-binding 96-well plates	Corning	3366	
150 mm TC-Treated Cell Culture dishes with 20 mm Grid	Corning	353025	
100mm TC-Treated Culture Dish	Corning	430167	
0.22 µm filter unit, 1L	Corning	430513	
QIAprep Spin Miniprep Kit (50)	Qiagen	27104	
Tissue culture pipettes, 5 mL	Corning	4487	
Tissue culture pipettes, 10 mL	Corning	4488	
Tissue culture pipettes, 25 mL	Corning	4489	
Hemocytometer with cover slips	Cole-Parmer	UX-79001-00	
Name			
Company			
Catalog Number			
Comments			
Cell culture reagents			
Human embryonic kidney 293T (HEK 293T) cells	ATCC	CRL-3216	
293FT cells	Thermo Fisher Scientific	R70007	
DMEM, high glucose media	Gibco	11965	
Cosmic Calf Serum	Hyclone	SH30087.04	
Antibiotic-antimycotic solution, 100X	Sigma Aldrich	A5955-100ML	
Sodium pyruvate	Sigma Aldrich	S8636-100ML	
Non-Essential Amino Acid (NEAA)	Hyclone	SH30087.04	
RPMI 1640 media	Thermo Fisher Scientific	11875-085	

GlutaMAX	Thermo Fisher Scientific	35050061	
Trypsin-EDTA 0.05%	Gibco	25300054	
BES (N, N-bis (2-hydroxyethyl)-2-amino-ethanesulfonic acid)	Sigma Aldrich	B9879 - BES	
Gelatin	Sigma Aldrich	G1800-100G	
Name	Company	Catalog Number	Comments
p²⁴ ELISA reagents			
Monoclonal anti-p ²⁴ antibody	NIH AIDS Research and Reference Reagent Program	3537	
HIV-1 standards	NIH AIDS Research and Reference Reagent Program	SP968F	
Polyclonal rabbit anti-p ²⁴ antibody	NIH AIDS Research and Reference Reagent Program	SP451T	
Goat anti-rabbit horseradish peroxidase IgG	Sigma Aldrich	12-348	Working concentration 1:1500
Normal mouse serum, Sterile, 500mL	Equitech-Bio	SM30-0500	
Goat serum, Sterile, 10mL	Sigma	G9023	Working concentration 1:1000
TMB peroxidase substrate	KPL	5120-0076	Working concentration 1:10,000
Name	Company	Catalog Number	Comments
Plasmids			
psPAX2	Addgene	12260	
pMD2.G	Addgene	12259	
pRSV-Rev	Addgene	12253	
lentiCRISPR v2	Addgene	52961	
Name	Company	Catalog Number	Comments
Restriction enzymes			
BsrGI	New England Biolabs	R0575S	
BsmBI	New England Biolabs	R0580S	
EcoRV	New England Biolabs	R0195S	
KpnI	New England Biolabs	R0142S	
PacI	New England Biolabs	R0547S	
SphI	New England Biolabs	R0182S	