

**Materials List for:**

# Lentiviral Vector Platform for the Efficient Delivery of Epigenome-editing Tools into Human Induced Pluripotent Stem Cell-derived Disease Models

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## Materials

Name	Company	Catalog Number	Comments
<i>Equipment</i>			
Optima XPN-80 Ultracentrifuge	Beckman Coulter	A99839	
0.22 µM filter unit, 1 L	Corning	430513	
0.45-µm filter unit, 500 mL	Corning	430773	
100 mm TC-Treated Culture Dish	Corning	430167	
15 mL conical centrifuge tubes	Corning	430791	
150 mm TC-Treated Cell Culture dishes with 20 mm Grid	Corning	353025	
50 mL conical centrifuge tubes	Corning	430291	
6-well plates	Corning	3516	
Aggrewell 800	StemCell Technologies	34811	
Allegra 25R tabletop centrifuge	Beckman Coulter	369434	
BD FACS	Becton Dickinson	338960	
Conical bottom ultracentrifugation tubes	Seton Scientific	5067	
Conical tube adapters	Seton Scientific	PN 4230	
Eppendorf Cell Imaging Slides	Eppendorf	30742060	
High-binding 96-well plates	Corning	3366	
Inverted fluorescence microscope	Leica	DM IRB2	
QIAprep Spin Miniprep Kit (50)	Qiagen	27104	
Reversible Strainer	StemCell Technologies	27215	
SW32Ti rotor	Beckman Coulter	369650	
VWR® Disposable Serological Pipets, Glass, Nonpyrogenic	VWR	93000-694	
VWR® Vacuum Filtration Systems	VWR	89220-694	
xMark™ Microplate Absorbance plate reader	Bio-Rad	1681150	
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>
<i>Cell culture reagents</i>			
Human embryonic kidney 293T (HEK 293T) cells	ATCC	CRL-3216	
Accutase	StemCell Technologies	7920	

Anti-Adherence Rinsing Solution	StemCell Technologies	7010	
Anti-FOXA2 Antibody	Abcam	Ab60721	
Anti-Nestin Antibody	Abcam	Ab18102	
Antibiotic-antimycotic solution, 100x	Sigma Aldrich	A5955-100ML	
B-27 Supplement (50x), minus vitamin A	Thermo Fisher Scientific	12587010	
BES	Sigma Aldrich	B9879 - BES	
Bovine Albumin Fraction V (7.5% solution)	Thermo Fisher Scientific	15260037	
CHIR99021	StemCell Technologies	72052	
Corning Matrigel hESC-Qualified Matrix	Corning	08-774-552	
Cosmic Calf Serum	Hyclone	SH30087.04	
DMEM-F12	Lonza	12-719	
DMEM, high glucose media	Gibco	11965	
DNeasy Blood & Tissue Kit	Qiagen	69504	
EpiTect PCR Control DNA Set	Qiagen	596945	
EZ DNA Methylation Kit	Zymo Research	D5001	
Gelatin	Sigma Aldrich	G1800-100G	
Gentamicin	Thermo Fisher Scientific	15750078	
Gentle Cell Dissociation Reagent	stemCell Technologies	7174	
GlutaMAX	Thermo Fisher Scientific	35050061	
Human Recombinant bFGF	StemCell Technologies	78003	
Human Recombinant EGF	StemCell Technologies	78006	
Human Recombinant Shh (C24II)	StemCell Technologies	78065	
MEM Non-Essential Amino Acids Solution (100x)	Thermo Fisher Scientific	11140050	
mTeSR1	StemCell Technologies	85850	
N-2 Supplement (100x)	Thermo Fisher Scientific	17502001	
Neurobasal Medium	Thermo Fisher Scientific	21103049	
Non-Essential Amino Acid (NEAA)	Hyclone	SH30087.04	
PyroMark PCR Kit	Qiagen	978703	
RPMI 1640 media	Thermo Fisher Scientific	11875-085	
SB431542	StemCell Technologies	72232	
Sodium pyruvate	Sigma Aldrich	S8636-100ML	
STEMdiff Neural Induction Medium	StemCell Technologies	5835	
STEMdiff Neural Progenitor Freezing Medium	StemCell Technologies	5838	
TaqMan Assay FOXA2	Thermo Fisher Scientific	Hs00232764	
TaqMan Assay GAPDH	Thermo Fisher Scientific	Hs99999905	
TaqMan Assay Nestin	Thermo Fisher Scientific	Hs04187831	
TaqMan Assay OCT4	Thermo Fisher Scientific	Hs04260367	
TaqMan Assay PPIA	Thermo Fisher Scientific	Hs99999904	
Trypsin-EDTA 0.05%	Gibco	25300054	
Y27632	StemCell Technologies	72302	
<b>Name</b>	<b>Company</b>	<b>Catalog Number</b>	<b>Comments</b>

<i>p<sup>24</sup> ELISA reagents</i>			
Monoclonal anti-p <sup>24</sup> antibody	NIH AIDS Research and Reference Reagent Program	3537	
Goat anti-rabbit horseradish peroxidase IgG	Sigma Aldrich	12-348	Working concentration 1:1500
Goat serum, Sterile, 10 mL	Sigma	G9023	Working concentration 1:1000
HIV-1 standards	NIH AIDS Research and Reference Reagent Program	SP968F	
Normal mouse serum, Sterile, 500 mL	Equitech-Bio	SM30-0500	
Polyclonal rabbit anti-p <sup>24</sup> antibody	NIH AIDS Research and Reference Reagent Program	SP451T	
TMB peroxidase substrate	KPL	5120-0076	Working concentration 1:10,000
Name	Company	Catalog Number	Comments
<i>Plasmids</i>			
pMD2.G	Addgene	12253	
pRSV-Rev	Addgene	52961	
psPAX2	Addgene	12259	
Name	Company	Catalog Number	Comments
<i>Restriction enzymes</i>			
BsmBI	New England Biolabs	R0580S	
BsrGI	New England Biolabs	R0575S	
EcoRV	New England Biolabs	R0195S	
KpnI	New England Biolabs	R0142S	
PacI	New England Biolabs	R0547S	
SphI	New England Biolabs	R0182S	