

Materials List for

# Lentiviral Mediated Delivery of shRNAs to hESCs and NPCs Using Low-cost Cationic Polymer Polyethylenimine (PEI)

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## URL

jove.com/video/63953

## Materials

Name	Company	Catalog Number	Comments
2-Mercaptoethanol	Invitrogen	31350010	
38.5 mL, Sterile + Certified Free Open-Top Thinwall Ultra-Clear Tubes	Beckman Coulter	C14292	
Accutase	Stem Cell Technologies	7920	
bFGF Recombinant human	Invitrogen	PHG0261	
Bovine serum albumin FRAC V	Invitrogen	15260037	
Corning Matrigel Basement Membrane Matrix, LDEV-free	Corning	354234	
Cyclopamine	Stem Cell Technologies	72074	
DMEM media	Invitrogen	11995073	
DMEM Nutrient mix F12	Invitrogen	11320033	
DPBS w/o: Ca and Mg	PAN Biotech	P04-36500	
Fetal bovine serum	Invitrogen	10270106	
GAPDH (14C10) Rabbit mAb Antibody	CST	2118S	
Gentle Cell Dissociation Reagent	Stem Cell Technologies	7174	
HyClone Non Essential Amino Acids (NEAA) 100X Solution	GE healthcare	SH30238.01	
L Glutamine, 100X	Invitrogen	2924190090	
L2HGDH Polyclonal antibody	Proteintech	15707-1-AP	
L2HGDH shRNA	Macrogen		Seq: CGCATTCTTCATGTGAGAAAT
Lipofectamine 3000 kit	Thermo Fisher	L3000001	
mTesR1 complete media	Stem Cell Technologies	85850	
Neurobasal medium 1X CTS	Invitrogen	A1371201	
Neuropan 2 Supplement 100x	PAN Biotech	P07-11050	
Neuropan 27 Supplement 50x	PAN Biotech	P07-07200	

Penicillin streptomycin SOL	Invitrogen	15140122	
pLKO.1 TRC vector	Addgene	10878	
pLL3.7 vector	Addgene	11795	
pMD2.G	Addgene	12259	
Polybrene infection reagent	Sigma	TR1003- G	
Polyethylenimine, branched	Sigma	408727	
psPAX2.0	Addgene	12260	
Purmorphamine	Tocris	4551/10	
Puromycin	Invitrogen	A1113802	
ROCK inhibitor Y-27632 dihydrochloride	Tocris	1254	
SB 431542	Tocris	1614/10	
Trypsin .05% EDTA	Invitrogen	25300062	
XAV 939	Tocris	3748/10	