

Materials List for:

# Endogenous Protein Tagging in Human Induced Pluripotent Stem Cells Using CRISPR/Cas9

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## Materials

Name	Company	Catalog Number	Comments
Geneious R9	Biomatters, or similar		bioinformatics software for <i>in silico</i> donor plasmid design
TE Buffer pH 8.0	IDT, or similar	11-01-02-05	
HERAcell VIOS 160i CO <sub>2</sub> incubator, or similar	ThermoFisher Scientific, or similar	51030408	
Pipettes (1000 µL, 200 µL, 20 µL, 10 µL, 2 µL)	Rainin, or similar		
Pipette tips (1000 µL, 200 µL, 20 µL)	Rainin, or similar		
Multi-channel Pipette (200 µL)	Rainin, or similar		
Serological pipettes (25 mL, 10 mL, 5 mL)	Costar, or similar		
BRAND 8-Channel Manifold for Quiksip, Autoclavable	Millipore Sigma, or similar	BR704526-1EA	use with non-filtered pipet tips, such as Molecular BioProducts Low Retention Pipet Tips, Pure 10, below
Molecular BioProducts Low Retention Pipet Tips, Pure 10	Thermo Fisher, or similar	3501-05	
XP2 Pipette Controller	Drummond, or similar	4-000-501	
Disposable Pasteur Pipets	VWR, or similar	53300-567	
Class II, Type A2 Biological Safety Cabinet	CELLGARD, or similar	NU-481	
Matrigel Matrix, Growth Factor Reduced	Corning	354230	lot tested before use with hiPSC
DMEM/F12 (-phenol red)	Gibco	11039-021	cold, for diluting Matrigel 1:30
mTeSR1 Complete Media	StemCell Technologies	85850	recommended growth media for WTC hiPSC line
Penicillin-streptomycin	Gibco	15070-063	
WTC hiPSC line	Coriell	GM25256	the hiPSC line used in this protocol is available through Coriell
Tissue culture dish 100 mm	Falcon	353003	
6-well Cell Culture Plate	CELLSTAR	657160	
StemPro Accutase	Gibco	A11105-01	
Dulbecco's Phosphate Buffered Saline (DPBS) no calcium, no magnesium	Gibco	14190144	
15 mL polystyrene conical	Sarstedt	62.554.100	
Y-27632 (ROCK Inhibitor)	StemCell Technologies	72308	

Edit-R CRISPR-Cas9 Synthetic crRNA, unmodified (custom sequence)	Dharmacon	Custom0247	
Edit-R CRISPR-Cas9 Synthetic tracrRNA	Dharmacon	U-002005-05	
Recombinant wild-type <i>Streptococcus pyogenes</i> Cas9-NLS purified protein, 40 $\mu$ M	University of California-Berkeley QB3 Macrolab		
Custom donor plasmid (PriorityGENE)	Genewiz		donor insert design was synthesized and cloned into pUC57 backbone by Genewiz
DNA LoBind Tube 1.5 mL	Eppendorf	22431021	
NucleoBond Xtra Maxi EF	Clontech	740424.50	
Neon Transfection System	ThermoFisher Scientific	MPK5000	
Neon Transfection System, 100 $\mu$ L kit	ThermoFisher Scientific	MPK10096	
5 mL Polystyrene Round-bottom Tube with Cell Strainer Cap	Falcon	352235	
15 mL High Clarity Polypropylene Conical Tube	Falcon	352196	
FACSriaIII Fusion	BD Biosciences	656700	
FACSDiva software	BD Biosciences		
FlowJo version 10.2	TreeStar		
NERL Blood Bank Saline	ThermoFisher Scientific	8504	used as preservative-free FACS Buffer
Olympus SZX7 Stereo Microscope, or similar	Olympus, or similar		
Tissue culture plate, 96-well	Falcon	353072	
96 well Cell Culture Plate, V-Bottom	CELLSTAR	351180	
CryoStor CS10	Sigma	C2874-100ML	used as cryopreservation buffer for cells in 96-well plate format
Parafilm	Bemis	PM-996	
24 well Cell Culture Plate	CELLSTAR	662160	