

Materials List for:

Generation of Defined Genomic Modifications Using CRISPR-CAS9 in Human Pluripotent Stem Cells

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Materials

Name	Company	Catalog Number	Comments
5-ml polystyrene round-bottom tube with cell-strainer cap	Corning	352235	
6-well polystyrene tissue culture dishes	Corning	353046	
AflIII restriction endonuclease	New England Biolabs	R0520	
Agarose	VWR	N605	
DMEM/F12 medium	ThermoFisher	11320033	
dNTPs	Roche	11969064001	
Fluorescence-activated cell sorter (FACS) apparatus			
Gel extraction kit	Macherey-Nagel	740609	
Gibson Assembly Kit	New England Biolabs	E2611	
gRNA_Cloning Vector	Addgene	41824	
LB agar plates containing 50 µg/ml kanamycin			
Lipofectamine Stem Reagent	ThermoFisher	(STEM00001)	
Matrigel Growth Factor Reduced (GFR)	Corning	354230	
Murine embryonic fibroblasts (MEFs)			
Nucleospin Gel Extraction and PCR Clean-up Kit	Macherey-Nagel	740609	
Orbital shaking incubator			
pCas9_GFP vector	Addgene	44719	
PCR strip tubes	USA Scientific	1402-2900	
Phusion High Fidelity DNA Polymerase and 5× Phusion buffer	New England Biolabs	M0530	
Purelink™ Quick Plasmid Miniprep Kit	Invitrogen	K210011	
Proteinase K	Qiagen	Qiagen 19133	
Stellar™ electrocompetent Escherichia coli cells	Takara	636763	
SOC medium	New England Biolabs	B9020S	
TrypLE Express Enzyme	ThermoFisher	12605036	

Y-27632 dihydrochloride/ROCK inhibitor (ROCKi)	Tocris	1254	
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