

Materials List for:

Zinc-finger Nuclease Enhanced Gene Targeting in Human Embryonic Stem Cells

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Materials

Name	Company	Catalog Number	Comments
Mouse Embryonic Fibroblasts (DR4)	GlobalStem	GSC-6004G	
Gelatin	Sigma	G1393-100ML	
HBSS, no Calcium, no Magnesium, no Phenol Red (HBSS)	Life Technologies	14175-095	
Dispase	StemCell Technologies	7923	
Cell Scraper	Corning	3008	
Accutase	Life Technologies	A11105-01	
Y27632	Axon Medchem	Axon 1683	
Cell Strainer - 40 µm	BD Biosciences	352340	
33 mm - 0.22 µm filter	Millipore	SLGP033RS	
rhFGF2	R&D Systems	233-FB-025/CF	
Electroporator	BioRad	165-2661	
0.4 cm electroporation cuvette	BioRad	165-2088	
Human TV-hPITX3-forward targeting construct	Addgene	31942	
ZFN Kit; Human PITX3	Sigma-Aldrich	CKOZFN1050-1KT	
Puromycin	InvivoGen	ant-pr-1	
Matrigel	BD Biosciences	354277	
Geltrex	Life Technologies	A1569601	
NaCl	Sigma-Aldrich	S3014	
Dulbecco's Modified Eagle Medium (DMEM)	Life Technologies	10566-016	
Fetal Bovine Serum, Qualified, Heat Inactivated, US Origin (FBS)	Life Technologies	16140-071	
Pen/Strep	Life Technologies	15070-063	
Dulbecco's Modified Eagle Medium/Nutrient Mixture F-12 (DMEM/F12)	Life Technologies	11320-033	
KnockOut Serum Replacement (KSR)	Life Technologies	10828-028	
MEM Non-Essential Amino Acids (NEAA)	Life Technologies	11140-050	
GlutaMAX	Life Technologies	35050-061	
β-mercaptoethanol	Life Technologies	21985-023	
N-Lauroylsarcosine sodium salt solution (Sarcosyl) (30%)	Sigma-Aldrich	61747	

EDTA	Sigma-Aldrich	E9884	
Trizma Hydrochloride	Sigma-Aldrich	T3253	
Proteinase K solution (20 mg/ml)	Bioline Australia	BIO-37084	
Expand Long Template PCR System	Roche Australia	11681834001	
hPITX3 L arm gen. F (primer): 5' TGTCCTAAGGAGAATGGGTAACAGACA 3'	GeneWorks, Australia		
hPITX3 L arm GFP R (primer): 5' ACACGCTGAAC TTGTGGCCGTTTA 3'	GeneWorks, Australia		
HyperLadder 1 kb	Bioline Australia	BIO-33025	
GelRed	Jomar Bioscience, Australia	41003	