

Materials List for:

Transfection, Selection, and Colony-picking of Human Induced Pluripotent Stem Cells TALEN-targeted with a GFP Gene into the AAVS1 Safe Harbor

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Materials

Name	Company	Catalog Number	Comments
Matrigel Growth Factor Reduced (GFR) Basement Membrane Matrix, *LDEV-Free, 10 ml	Corning	354230	Store at -20 °C.
DMEM/F-12	Life Technologies	11320-033	Store at 4 °C.
Costar 6 Well Clear TC-Treated Multiple Well Plates	Corning	3506	
Essential 8 Medium	Life Technologies	A1517001	Store basal medium at 4 °C. Store supplement at -20 °C.
Y-27632 dihydrochloride	Tocris	1254	Store at room temp. Once dissolved in H ₂ O, store at -20 °C.
Sodium Chloride	Sigma	S5886-500G	
UltraPure 0.5 M EDTA, pH 8.0	Life Technologies	15575-020	
DPBS, no calcium, no magnesium	Life Technologies	14190-250	
100 mm TC-Treated Culture Dish	Corning	430167	
DR4 MEF 2M IRR - Academic	GlobalStem	GSC-6204G	Store in liquid Nitrogen.
DMEM, high glucose, pyruvate	Life Technologies	11995-040	Store at 4 °C.
Defined Fetal Bovine Serum, US Origin	HyClone	SH30070.03	Store at -20 °C. Thaw at 4 °C overnight and aliquot. Store aliquots at -20 °C until needed.
MEM Non-Essential Amino Acids Solution (100X)	Life Technologies	11140-050	Store at 4 °C.
4D-Nucleofector Core unit	Lonza	AAF-1001B	part of the electroporation system
4D-Nucleofector X unit	Lonza	AAF-1001X	part of the electroporation system
P3 Primary Cell 4D-Nucleofector X Kit L (24 RCT)	Lonza	V4XP-3024	Upon arrival, remove Primary Cell Solution and supplement and store at 4 °C.
StemPro Accutase Cell Dissociation Reagent	Life Technologies	A1110501	Store at -20 °C. Thaw overnight at 4 °C and warm an aliquot in a 37 °C water bath before use.
NutriStem XF/FF Culture Medium	Stemgent	01-0005	Store at -20 °C. Thaw overnight at 4 °C
AAVS1 TALENs (pZT-AAVS1-L1 and pZT-AAVS1-R1)	Addgene	52637 and 52638	
Name	Company	Catalog Number	Comments
AAVS1-CAG-EGFP Homologous Recombination donor	Addgene	22212	
Puromycin Dihydrochloride	Life Technologies	A11138-03	Store at -20 °C. Prepare working aliquots of 1 mg/ml in ddH ₂ O.

Disposable Borosilicate Glass Pasteur Pipets	Fisher Scientific	13-678-20A	
Sorvall Legend XTR (Refrigerated), 120 V 60 Hz	Thermo Scientific	75-004-521	
TX-750 4 × 750 ml Swinging Bucket Rotor	Thermo Scientific	75003607	
Trypan Blue Solution, 0.4%	Life Technologies	15250-061	