

Generation of Induced Pluripotent Stem Cell-Derived iTenocytes *via* Combined Scleraxis Overexpression and 2D Uniaxial Tension

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Materials

Name	Company	Catalog Number	Comments
2-mercaptoethanol	Sigma Aldrich	M3148	
Accutase	StemCell Technologies	7920	cell dissociation reagent
Antibiotic-antimycotic solution	Thermofisher	15240096	
Anti-CD105	Ancell	326-050	
APC mouse anti-human CD44	BD Biosciences	559942	
APC mouse IgG2 K isotype control	BD Biosciences	555745	
BenchMark fetal bovine serum	GeminiBio	100-106	
Biglycan	Thermofisher	Hs00959143_m1	
Bovine serum albumin	Millipore Sigma	A3733	
Collagen type I alpha 1 chain human Taqman primer	Thermofisher	Hs00164004_m1	
Collagen type III alpha 1 chain human Taqman primer	Thermofisher	Hs00943809_m1	
Dimethyl sulfoxide	Millipore Sigma	D8418	
DMEM, low glucose, pyruvate, no glutamine, no phenol red	Thermofisher	11054020	
Eagle's minimum essential medium (EMEM)	ATCC	30-2003	
Fibronectin bovine plasma	Sigma Aldrich	F1141	
FITC mouse anti-human CD90	BD Biosciences	555595	
Gelatin from porcine skin	Sigma Aldrich	G1890	
Goat anti Mouse IgG1-PE	Bio-Rad	STAR117	
HEK 293T/17	ATCC	CRL-11268	
IMDM, no phenol red	Thermofisher	21056023	
iPSCs: 83i-cntr-33n1	Cedars-Sinai iPSC Core Facility	N/A	https://biomanufacturing.cedars-sinai.org/product/cs83ictr-33nxx/

Isotype Control Antibody, mouse IgG2a-FITC	Miltenyi Biotec	130-113-271	
KnockOut serum replacement	Thermofisher	10828010	
L-ascorbic acid	Sigma Aldrich	A4544	
L-Glutamine	Thermofisher	2503081	
Matrigel	Corning	354230	basement membrane matrix
MechanoCulture FX	CellScale	N/A	stretching apparatus
MEM non-essential amino acids solution	Thermofisher	11140050	
Mohawk human Taqman primer	Thermofisher	Hs00543190_m1	
mTeSR Plus	StemCell Technologies	100-0276	
PBS	Thermofisher	10010023	
Platelet-derived growth factor receptor A human Taqman primer	Thermofisher	Hs00998018_m1	
Poly(2-hydroxyethyl methacrylate)	Sigma Aldrich	192066	
Polybrene infection/transfection reagents	Millipore Sigma	TR-1003	
Recombinant human TGF-beta 1 protein human Taqman primer	RnD Systems	240-B	
Scleraxis human Taqman primer	Thermofisher	Hs03054634_g1	
SCXA (SCX) (NM_00108050514) human tagged ORF clone	OriGene	RC224305L4	
Silicone plates	CellScale	N/A	
Sodium azide	Millipore Sigma	S2002	
Tenascin C human Taqman primer	Thermofisher	Hs00370384_m1	
Tenomodulin human Taqman primer	Thermofisher	Hs00223332_m1	
Thrombospondin 4 human Taqman primer	Thermofisher	Hs00170261_m1	
Transfection reagent, BioT	Bioland Scientific LLC	B01-01	
Trypsin-EDTA (0.25%)	Thermofisher	25200072	
Tubulin polymerization promoting protein family member 3	Thermofisher	Hs03043892_m1	
Y-27632 dihydrochloride	Biogems	1293823	