

Materials List for:

# In Vitro Generation of Somite Derivatives from Human Induced Pluripotent Stem Cells

Taiki Nakajima<sup>1</sup>, Hidetoshi Sakurai<sup>2</sup>, Makoto Ikeya<sup>2</sup>

<sup>1</sup>Department of Life Science Frontiers, Center for iPS Cells Research and Application, Kyoto University

<sup>2</sup>Department of Clinical Application, Center for iPS Cells Research and Application, Kyoto University

Correspondence to: Taiki Nakajima at [nkg@cira.kyoto-u.ac.jp](mailto:nkg@cira.kyoto-u.ac.jp), Makoto Ikeya at [mikeya@cira.kyoto-u.ac.jp](mailto:mikeya@cira.kyoto-u.ac.jp)

URL: <https://www.jove.com/video/59359>

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## Materials

Name	Company	Catalog Number	Comments
ALX4_Goat antibody	Santacruz	sc-22066	
Apo-transferrin	Sigma	T1147	
BMP4	R&D	314-BP-010	
BMP7	R&D	354-BP-010	
Bovine serum albumin	Sigma	A8806	
Calcium chloride	Nacalai tesque	067730-15	
CDH11_Mouse antibody	Cell signaling	13577	
Cell stretching device	Strex	STB-140	
Chemically defined lipid concentrate	Gibco	11905-031	
CHIR99021	Axon	1386	
COL1A1_Rabbit antibody	Abcam	ab34710	
COL2A1_Mouse antibody	Thermo scientific	MS-235	
Collagenase IV	Thermofisher	17104019	
DLL1 APC-conjugated_Mouse antibody	R&D	FAB1818A	For FACS
DMEM	Sigma	D6046	
DMEM/F12	Gibco	11320-082	
DMH1	Tocris	4126	
EN1_Rabbit antibody	Abcam	ab70993	
Fetal bovine serum	Nichirei	171012	
FGF2	Wako	060-04543	
FGF8	Peptotech	100-25	
Human dermal fibroblast	Cell applications	160-05a	
Human tenocyte	Angio proteomie	cAP-0041	
Insulin	Wako	090-06474	
Iscove's modified Dulbecco's medium/Ham's F12	Gibco	21056023	
Knockout SR	Gibco	10828028	
LDN193189	Axon	1509	
Matrigel	BD bioscience	354230	Artificial extracellular matrix
MEOX1_Rabbit antibody	Abcam	ab75895	
MHC_Rabbit antibody	Santacruz	sc-20641	
MKX_Rabbit antibody	Atlas antibodies	A83377	

Monothioglycerol	Sigma	M6145	
mTeSR1	Stemcell tech	85850	
Multi well-type silicon rubber chamber	Strex	STB-CH-4W	
MYOD_Rabbit antibody	Abcam	ab133627	
MYOG_Mouse antibody	Santacruz	sc-12732	
NKX3.2_Rabbit antibody	Sigma	HPA027564	
Novex Donkey anti Goat IgG(H+L) secondary antibody555	Invitrogen	A21432	
Novex Donkey anti Goat IgG(H+L) secondary antibody647	Invitrogen	A21447	
Novex Goat anti Mouse IgG(H+L) secondary antibody555	Invitrogen	A21422	
Novex Goat anti Rabbit IgG(H+L) secondary antibody555	Invitrogen	A21428	
Novex Goat anti Rabbit IgG(H+L) secondary antibody647	Invitrogen	A21245	
PARAXIS_Rabbit antibody	Santacruz	sc-98796	
PAX1_Rabbit antibody	Abcam	ab95227	
PAX9_Rabbit antibody	Gene tex	GTX104454	
PBS	-	-	
PDGFRa_Goat	R&D	AF307	
Penicillin/Streptomycin	Invitrogen	15140-122	
Primate ES cell medium	Reprocell	RCHEMD001	
SAG	Calbiochem	566661	
SB431542	Selleckchem	SEL-S1067-10	
SCX_Rabbit antibody	Abcam	ab58655	
TBX6_Goat antibody	R&D	AF4744	
Tendon cell growth medium	Angio-proteomie	cAP-40	Tenocytes growth medium
TGFβ3	R&D	243-B3-200	
Trypsin	Gibco	15090046	